## LAFAYETIE Electronics

1960 CATALOG 600


OUR 39th YEAR＊




## Safuyette Radio

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24 Central Ruenue
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Oper WEDNESDAY til 3：45 P．M．
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139 人．And Streat
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## A <br> WORLD of SOUND



## The Lafayette "Stereo 250"

## 50 WATT INTEGRATED STEREO AMPLIFIER

## $\star$ Two 25 Watt channels-50 Watt Monophonic $\star$ Response 17 to 21,000 Cycles $\star$ Full Range Of Controls And Inputs $\quad \star$ New, Handsome Styling

### 89.50 <br> COMPARABLE VALUE 179.50



$\angle$Sofayefte's newest and most impressive stereo amplifier -the Model IA-250. Simplicity, versatility and handsome styling have been integrated by coreful engineering In this moderately priced unit. It is a fine stereo preamplifier and 50 wott sterea amplifier combined, with all the necessary controls and inputs recuired to provide the utmost in listening pleasure in any stereo sifuation. And, because of Its flexibility, you are olso assured of the finest reproduction of monophonic sources-your built-in profection for your investment in monophonic records. Whether you use it as a sterso amplifier delivering 25 watts per channel or as a powerful 50 watt monophonic amplifier, you can be sure of true high fidelity reproduction - with no hum, noise or distortion to mar your pleasure. Check the features. compare... see why the IA- 250 is worthy of o place in your high fidelity system.

## DELUXE FEATURES

Separation Control-A new stereo control which provides continuously variable channel separation-from full mono phonic to full stereo. Lets you select the amount of sepo. ration you want.
Clutch-Operated Volume Balance Control-Gives you a choice of independent or simultaneous control of both channels.
4 Independent Tone Controls-Independent Bass and Treble odiustment for each channel. Concentric maunting for convenience-inner knob controls one chonnel, outer knob the other channel.
Mode Switching-Two slide switches provide Normal Stereo-Reverse Channel-Mon A Channel A reproduced through both chonnels)-Mon 8 (Channel 8 reproduced through both channels)
through both channels).
Input Selector-4-position switch lets you select Instantly any one of your connected monophonic or stereo sourcesspecial non-shorting arrangement on one position permits recording and ploybock using a permanently connected tape recorder.
Loudness Switch - Provides the frequency response changes required by the ear of low listening lovels and permits the Volume-balance control to function as a com pensated loudness control.
Phase Switch-Reverses the phase of one channel electri-cally-corrects for speakers connected out of phose or for
reversed phase recordings sometimes found commercially. 3 Pairs of High Level Inputs-For connection of Crystal or Ceramic phono, Tuner, and auxillary equipment.
2 Pairs of Law Level Inpurs-For connection of magnetic phono and Tape Head.
Main Speaker Outputs-Dual 4, 8 and 16 ohm terminals nay be paralleled for 4 or 8 ohm operation of 50 watts. Tape Output-Provides on output for Tape recording-unsffected by Volume and Tone settings.
Bridged Output-A monophonic blend of both channels which can be fed to a third single channel power amplifier and speaker for a greater sound spreod in stereo.
Dramatic New Styling-Attroctive beige vinyl laminated steel cabinet. Hondsomely designed brass anodized aluminum frant panel. Sienno brown molded legs and mateh ing knobs with polished brass inserts.

## ADVANCED AUDIO CIRCUITRY

- DC applied ta all preamplifier and tone control tubes for hum-free operation
- Corract RIAA equalization on phono inputs
- NARTB tape equalization on tape heod inputs
- Individual bias and balance controls
- Hum balance control
- Excellent DC power supply regulation provided by sillcon diodes
- Total of 9 Tubes, plus 3 silicon diodes-uses pramium 8CW5/EL86 output tubes.


## SPECIFICATIONS:

POWER OUTPUT: 25 watts per stereo chonnel (speech music rating), 50 watts monophonic. FREQUENCY RESPONSE: $17-21,000 \mathrm{cps} \pm 1 \mathrm{db}$ (at normal listening level). HARMONIC DISTORTION: less than $0.25 \%$, IM DISTORTION: Less than $1 \%$. HUM AND NOISE: (At full volume). High level-74 db below rated output, low level -54 db below rated output. CHANNEI SEPARATION Better than 50 db . SENSITIVITY: For full output; high level inputs 7 v , law level inputs 4 mv . OUTPUT IM PEDANCE: Dual 4,8 and 16 ohm. AUXILIARY OUTLETs 1, switched. TUBE COMPLEMENT: $4.6 C W 5 / E L 86,2.7199$, 3-12AX7, 3 silicon diodes. DIMENSIONS: $141 / 20 w x$ $12^{1 / 4^{\prime \prime}} \mathrm{d} \times 5 \mathrm{~s}^{\prime \prime \prime} \mathrm{h}$ (with legs and knobs). Shpg. wt., 26 lbs. LA.250WX-50 Watt Stereo Amplifier..............Net 89.50

> A NEW COMPLETE STEREO SYSTEM BASED ON THE SUPERB LA-250... breathtaking performance at a price that only Lafayête-can offer.

## MATCHED COMPONENTS

## LAFAYETTE LA-250 50-WATT STEREO AMPLIFIER <br> 89.50 GARRARD RC 121/11 STEREO CHANGER 41.65 NEW GE VR-22 (.7 MIL) DIAMOND STEREO CARTRIDGE 24.45 LAFAYETTE WOOD CHANGER BASE 3.95 2-LAFAYETTE SK -58 FAMOUS FREE EDGE <br> 12" COLXIAL SPEAKERS ot 29.50 EACH <br> Regular Catalog Price 218.55

### 17.45 Down You Save

12.00 Monthly
44.05

5
his superb system will add a new dimension in living to your home with all the excitement and realism of a live concert. The new Lafayette LA -250 50-watl ste ec amplifier (25 watts exch channel forms the heart of this outsicneing stereo hi-fi phonograph music system- the features, versatility and advanced circuitry of this unit are second to none-all the recessary inputs and outputs are provided if you wish to add stere tape and stereo FM/AM later. A unique blend control allows continuously variable charnel separa-tion-from full monaural to fill stereo. Also included is the famous Garrard RC121/11 intermix 4-speed automatic record changer with full manual or automatic opsiction supplied with your choli of stereo cartridges - the new GE VR-22 1.7 mil diamond stereo cartriage, Pickering 371.7D 1.7 m Il diamond stereo cartridge, Shore M70,l.7 mill diamond stereo cartridge or the new Electiro-Voice 31 MDT 1.7 mill diamond stere cartidge. Supplied with the Lafoyefle, wood base cut for the RCI 21 in your choice of finishes.
These outstanding component: are coupled with the 2-Somous freeedge Lafayette SK-58 $12^{\prime \prime}$ Coaxial speakers with bjllt-In crossover network and brilliance cornel cont. System supplied with plugs, cables and simple Inst-tations. Shag. wi., 67 its.
HJ-FI STEREO PHONO SYST:M with choice of cartridge and mohagany, walnut or bland changer base (please specify).
HF-681 WX 17.4 E Down Net 174.50 STEREO AM-FM-PHONO 5YST:M: Same as HF-681 bul Including the new Lafayette LT-SO stere tuner. Shpg. wt., 85 lbs.
HF -682 wK 28.7 S Down Net 287.50 Same as HF -681, but with ease of 2-Lafayelle Ellptoflex Series Bookshelf Enclosures or 2-Lafo-ette CAB-16 Series Resonator Enclosures (please specify cabinet model and finish). Shag. wit. 143 lbs.
HF-683 WY 23.CC Down Net 229.95 Same as HF-681, except speakers furnished ore 2-University 312. $12^{\prime \prime} 3$-way speakers. Shpg. wi. 67 lbs.
HF -684 LX 23.7s Down Net 237.30 Some os HF-684, but with circe of 2-Lafoyetle Eliftoflox Series Bookshelf Enclosures or 2-Lasopetle CAB-16 Series Resonator Enclosures (please specify cation et model and finish). Shag. wi., 143 lbs.
HF -685 wi
29.43 Down

Net 294.50



## TALK TO OUR EXPERTS

Are you suffering from "component confusion?'" Do you need some sound advice on stereo? Whatever your problem, Lafayette can and will arrive at the solution - either by recommending separate components or complete systems. Our qualified consultants weekly answer thousands of high-fidelity questions - many similar to yours. Why not take advantage of this free, friendly service to get the best solution to your specific problem.


## LISTEN COMPARE

If you hre in the area, a visit to Lnfayette's sound surlion for comparative componeht listening, is time well spent. This control pane-into which flozens of different components are wired enmateh those core ully, arecurately matrh those romponents which your needs. This servire for neered by Lafayette-is your dosurance that your system will be surance that your system will be
all you expert it to be.

## WRITE FOR SYSTEM-PLAN PRICES

If you wish to assemble a music system made up of components of your own choice, let Lafayette "price" the high-fidelity system you select. Just send us a list of the components you desire, and a special, moneysaving package price will be sent to you promptly. Write today to our Audio Division, specifying the makes and models of the components you want priced. No charge or obligation, of course.

## 15-DAY HOME TRIAL

Whether you select one of the suggested complete Lafayette high-fidelity systems or a single component . . . Whether you choose amateur equipment, precision scientific instruments, public-address systems, optical goods or tape recorders, you can be sure you're getting the best value in the industry... for two good reasons: First, Lafayette juarantees everything it sells. If for any reason you are not completely satisied with your purchase once you get it home, you can return it within 15 days and get your full purchase price returned to you, less only transportation charges; Second, the price you pay is equal to or better than the lowest prevailing market price... and you can
check to make sure.
Page 4

## hands to serve you better



THE FINEST...THROUGH RESEARCH . . . ENGINEERED BY LAFAYETTE when you buy a Lafayette high-fidelity component or scientlific instrument, you are settink outstanding equipment that incorporates the best features of units costing mueh more. These savings without sacrificing quality are made possible through the efforts of lafayette's Research and Development Department . . a group of engineers and technicians whose constant search for perfection, whether in audio kits or teleseopes, is but another reason why Individuals and schools everywhere look to Lafuyette for the finest in selentific equipment - at lowest cost

## COMPLETE STOCKS COMPLETE COV-

 ERAGE The tremendous Lafayette warehouses stock over $\mathbf{3 8 , 0 0 0}$ different parts, components and instruments. In addition to the usual transformers, capacitors, resistors and tubes, hard-to-get electronic parts and unique scientific instruments - and of course, everything in high fidelity - are available from this one great supply house. Whether you need a carton or a carload, send your order to Lafayetle first!
## Lafayette STEREO SOUND

## UNCOMPROMISING QUALITY!

lafayette STEREO 235

## 35 WATT STEREO AMPLIFIER 171⁄2. WATTS PER CHANNEL




## OTHER OUTSTANDING FEATURES: <br> - dual concentric separate bass and treble controls <br> - clutch-operated volume-balance controls <br> - high sensitivity for use with new stereo cartridges <br> - variable blend control eliminates exaggerated channel separation

Superior in concepl, design ond performance, the new lafoyette IA-235 represents a new standard in stereophonic amplifiers. Every outstanding feature you could ask for in an amplifier has been provided-Completely versatile, this instrument may be used as a dual $171 / 2$ wolt stereo amplifier or as a single monophonic 35 watl omplifier.

Engineered to deliver the finest perrormonce under all conditions; an exclusive blend control hos been incopporoted, providing continuausly variable channel separation from full manophonic to full stereo, thus insuring the correct degree of stereo separation for individual listening lostes and room acoustics Cancentric slutch-operoled volume-bolonce controls provides individual or simultaneous level sontrol for both channels.

Bass and treble are adjusted by means af separate dual-concentric controls for independent tonal control of each channel. Function switch provides Aux, Tape (high level) Tuner and Phono. Simple slide switches are pravided for Power on-off, Phase Reverse, Channel Reverse.

SPECIFICATIONS: $1 \mathrm{r} / 2$ watts per channel, $\pm 1 \mathrm{db} .35$ watts $\pm 1 \mathrm{db}$ mano. phonic; Harmonic Distartion: Less than $1 \%$ at rated output; $1 M$ Distortion: Less than $2 \%$. Frequeney Response: 20 1a $20,000 \mathrm{cps} \pm 1 \mathrm{DB}$ (at normal listening level); Tone Cantrol Range: Treble $\pm 10 \mathrm{db}$ of 10 kc ; Bass $\pm 10 \mathrm{db}$ of 50 cps . Sensifivity: For full power-High level inpuls 0.5 v . Mag. phono 4 mv at 1 kc . Hum and Noise: Volume control at max. High level inpuls 65 db below rated oulpul. Mag. phono 55 db below rated output. Channel Separation: Greater than 40 db . Total: 10 inputs 2 Aux, 2 Tape thigh level) 2 Tuner, 2 Mag. Phono, 2 Crystal Phono; Talal 4 outputs, 2 Tape Out, AC convenience outlel locoted on rear. Dual 8 and 16 ohms speoker outputs. Total of 9 tubes consisting af 4.E184, 2-7199, 2-12AX7 and 1-G234. For 117 volts, $50 / 60$ eps AC. Altraclively styled in a rich brown vinyl cage with brass plated escutcheon and ivory and gold knobs. Dimensions? $14^{\prime \prime} \mathrm{W} \times 43 / 4 " \mathrm{H} \times 9$ "D. Cover and legs may be removed far panel mount. ing. Shpg. wt., 22 lbs.
LA-235WX ........................... 6.95 Down
Net 69.50

## afayette complete stereo phono system <br> COMPONENTS

Bring the full beouly, and realism of stereo sound into your home with these matched lafoyette components-Corefully selected and matched by expents, rigidly engineered and manufactured to the most exacting specificalions. . . . each component has been completely evoluated by comparotive laboratory and listening tests in order to provide the utmast in Hexibility, quolity and value.

- Heart of the system is the new LA. 23535 watt stereo amplifier which acts as a complete stereo contral center. Designed with the fupure in mind all necessary inpuls are provided if you wish to add stereo lape and/or stereo FM/AM later.
- The famous Gorrard RC 1214 -speed automatic record changer is supplied with an attractive wood bose in your choice of finishes.
- The new GE VR-227 stereo cartridge insures perfect reproduction throughout the full audio range from $20.17,000 \mathrm{cps}$.
- Two of Lofoyettes new SK- 128 Ulfra-Linear fomous full range 8 -inch duaxial speakers feoturirg the most advanced speaker design available, complete this excellent syitem.
- lafayette la-235 35 watt stereo amplifier
- garrard rc 121 4.speed record changer
- NEW GE VR-22 (.7 MIL) DIAMONO STEREO CARTRIOGE 24.45
- WOOD BASE FOR RCI 21 (SPECIFY FINISH)

2-LAFAYETTE SK-128 FULL RANGE $8^{\prime \prime}$ DUAXIAL SPEAKERS 39.00
Regular Catalog Price
128.55

## You Save 38.60

Sk-128


Complefe Stereo phono system as listed above. Shpg. wt., 46 lbs. HF-725WX

Some as HF-725 WX, with the addition of 2-Lafoyette amozing "MiniDuct" Bookshelf Enclosures (Specify Enclosure Finish' Shpg. wt. 92 lbs. HF-726WX
18.25 Down

Net 182.45

Some os MF-725Wa, but with 2-Lafoyelte Famous SK-58 Free Edge 12" 2-way speokers. Shpg. wi., 58 lbs.
HF-727 WX
16.30 Down

Net 162.95

Some as HF-727WX, with the addition of 2-Eliploflex Bookshelf Enclosures (Specify Enclosure Finish) Shpg. wr., 106 lbs.
HF-728WX
21.30 Down

Net 212.95


SK-5 8


Nem! LAFAYETTE LA- 5515 WATT MONAURAL AMPLIFIER

- frequency response: 20-20,000 Cps
- power output 15 watts
- SENSITIVITY: 3 MV MAG. PHONO
- hUM 65 DB below rated output
- harmonic distortion less than $1 \%$,
 GUARANTEED POR ONE FULI YEAR

The Most Extraardinary Hi-FiValue Ever Offered

Outstanding Performonce and Engineering \& Beoutiful Siyling \&
Unbeatoble Price-odd up to make the Loforefte B-5S truly the finest Unbeatable Price-odd up to make the Lofoyeffe LA-5S truly the finest
HI-FI monaural omplifler value loday... Beoutifully styled in gold and while, the bA. 55 oaslly adapis to ony roam decor. Perfect for that musie syslom in your living room, finished bosement, slore or office. Ruggedly constructed. this fully integro:ed omplifier-preamplifier employs premium
auality EI84 lubes in push-pull ond odvanced circuliry for faithful reproduction of all monofonic sources.. Derfect for use os a second amplifier for stereo or for sloilling oul monafonlcally and odding sterea at a loter date. Engineered to include every practical feoture mohing o warth.
while contribution to hi-fI reproduction... LOOK AT THESE SPECI. FICATIONS AND EATURES: Power Outpur is watts fipeech and music roling); Frequency Respanse $20.20,000 \mathrm{cps} \div 1 \mathrm{db}$ (at narmal listening
39.50

COMPARABLE
VALUE 69.50
5.00 DOWN 5.00 MONTHLY
level): Sensifivity: For full power, High level inpuls O.Sv. Mag. phano 3 mv . Hum and Noise: Volume contral of max. High level inputs is db below roled output. Mag. Phano 55 db below roted output; Marmonic DisPhono Tope Heod. Outputs: Tope Out 4,8 and 16 shm speater tepminalsi Tubes: Potal of 5 plus rectifier 2 2-EL84, $1-6818$, 1. AU6. $1.12 \mathrm{AX7}$, and 1.6CA4/W281. Conerals: Monilor/On-Offy Volume/Power On-Off Base: Trebles Rumble Filter. Hum bolonce control. Selector: 4.position. Aux, Tuner, Phono, Tape Meod. Complete with removable cose and legs. AC receptacle on reor of chasshs. Dimensians: $13 \%{ }^{\prime \prime \prime} \mathrm{W} \times 4^{\prime \prime}$ H $~ 8 \% \%^{\prime \prime} \mathrm{D}$. LA. 5 S Wx . $3 / 6^{\prime \prime}$ in frant of ponel. Shpe. $w i$., 20 lbs. LA. 5 SWX


LAFAYETTE SUPER-VALUE HIGH-FIDELITY PHONO SYSTEM
PLAY STEREO \& MONAURAL RECORDS MONAURALIY, NOW - ADD COMPLETE STEREO LATER This economical high. fidelity systom is the performance volue of the yeor. Designed for ruggedness as well as beouty, these campanents will sotisly oven the mast critical music listener.

| LAFAYETTE LA. 5315 WATT COMPETE AMPLIFIER | 39.50 |
| :---: | :---: |
| NEW GE VR-22 (.7 MIL) DIAMOND CARTRIDGE FOR | 39.50 |
| BOTH STEREO AND MONAURAL RECORDS | 24.45 |
| WOOD BASE FOR RC 121 (Specify Finish) | 3.95 |
| GARRARD RC-121 4-SPEED RECORD CHANGER | 41.65 |
| lafayette Sk-128 full range 8" duaxial speaker | 19.60 |
|  | 29.16 | $\left.\begin{array}{l}\text { LAFAYETTE } \\ \text { SYSTEM PRICE }\end{array}\right\} .5$ YOU SAVE $29.65 \quad 9.09$ DOWN

Complete monaural phono system os listed Some system os MF. 721 WX , with the addition obove. Shpg. Wt., 39 Ibs. 9.95 oown .......NET 99.50 of the revolutlanory "Eliploflas" Booksholf
HF.719WX HF.719WX
Some iystem as MF.719WX, with the oddi- HF.722WX 9.9 Sotify Finish). Shps. Wi.. 69 Ibs. lion of lafayelfe's Amozing "Mini.Duet" Same system as HF-719WX, with the oddition Bookshalf Enclosure (Specify Finish). Shpg. of the Lofoyelte IT-80 FM Tuner. Shpg. wt., $w h ., 62 \mathrm{Jbs}$. HF .720 WX ..... 11.95 Down ........NET 119.50 56 lbs. HF-723WX 14.70 Dawh Some system as Hr.721 WX ...... NET 147.00 Some system os MF.7IOWX, but with fomous Lofayetle $\$ K .58$ free-edge $12^{\prime \prime} 2$-woy spok. ef. Shpe. wh.. 45 lbs.
HF. 721 WX ..... 10.95 Down........NET 109.50 of the Lafayette LT. 80 FM Tuner. Shps. wt., HF.724 WX ....... 15.70.00wn.. NET 157.00

Page 8

# FM-AM STEREO TUNER 

## MODEL LT 77

## Truly a triumph of engineering skill

Simplicity, flexibility and superb styling have been carefully infegroted in this quality instrument. Offering tremendaus versotility, the $\mathbf{I T}-77$ will receive and AM sections are completaly independent, the funer may olsa be employed for FM or AM reception separately. Designed with the future in mind .... a multiplex outpui hos boen included for the new sterco fM. Each unit hos been hand wired and Individually laboratory tested
Controls provide far every funer function. On-off pawer switch; Separato AM/ FM flywheol funing; Individual AM/FM volume contrals; Chaice of AM, FM. FMAFC ar stereo PMAFC Sew naiso fromi Secley discriminotor with AFC ond AFC defeal. Fm sens AM circuit with 3 for 20 db quieling insures long ronge receplon. Superh 3 an circuning wan stoges AVC and ferrite loapsfick anfenna. Individuol 3-gang funing candenser and tuned RF stages for both AM \& FM sections. Selectivity: FM 200 KC bond width; 6 db down, AM 8 KC 8W, 6 db down. Frequency Respanse: FM $20.20,000 \mathrm{cps} \pm 1 / \mathrm{db}$. AM $20.5,000 \mathrm{cps} \pm 3 \mathrm{db}$; Hormonic Disfortion under $1 \%$ on $\mathcal{F M}$; under $1 \%$ on AM far up to $80 \%$ modulation. Hum level60 db . Image Rejection: FM, better than $40 \mathrm{db} A M 70 \mathrm{db}$. I.F. Rejectlon FM 70 db , AM 50 db Radiation meels FCC requirements. Tubes: $2-6$ AOB, 4-68A6, 2-AU6, 1 each 6BE6, 6 AL5 and $6 \times 4$ plus diode detectar. Antenno Inpuls 300 ohms.
Superbly styled fow silhovette enclosure finished in gold and white with easy ta read block dial foce. Complete with cage and legs. Dimensions: $14 \mathrm{y}^{\prime \prime} \mathrm{W} x$ $4 y^{\prime \prime \prime} \mathrm{H}=10 \%_{4}$ " D Feet odd $3 / 4$ " to height. Shpg. wi., 16 lbs.
IT 77 AM-FM SIEREO TUNER 7.45 DOWN 7.00 Manthly.... NET 74.50

- 14 TUBE PERFORMANCE- 10 TUBES (2-DUAL PURPOSE) + RECTIFIER + DIODE \& 2-TUNING METERS - ARMSTRONG CIRCUIT WITH DUAL TUNED LIMITERS AND FOSTER - SEELEY DISCRIMINATOR - FM AFC AND afC defeat - extreme sensitivity and wide FREQUENCY RESPONSE TUNED GROUNDED GRID R.F. STAGE ON AM \& FM - MULTIPLEX OUTPUT FLY WHEEL TUNING - AM FEATURES BROADBAND TUNED I.F. STAGE 2-3 GANG CONDENSERS - INDIVIDUAL VOLUME. BALANCE CONTROLS FOR AM \& FM

WEAK SIGNALSTRONG SIGNAL Lafayette's separate, precision twin - tuning meters for FM and AM insure pin-point tuning accuracy every time

Delivery Approximately Nov. S, 1959



GUARANTEED FOR ONE FULL YEAR


Pin-point tuning accuracy is provided by this precision uning meter; evaluates relative strength of the incoming signal . . . . . . . invaluable when tuning weak sta fions.

- ARMSTRONG CIRCUIT FOSTER-SEELEY DISCRIMINATOR AND DUAL TUNED LIMITERS
- EXIREMELY SENSITIVE-1.5 UV FOR 200B QUIETING
- 10-TUBE PERFORMANCE-8 TUBES (2-DUAL PURPOSE)
- 20-20,000 CYCLES $\pm 1 / 2$ DB AFC
- afC DEFEAT - SUPERB LOW SILHOUETTE STYLING


## OUTSTANDING STEREO MUSIC SYSTEMS...



## PROFESSIONAL STEREO PREAMPLIFIER AND MASTER AUDIO CONTROL CENTER

## All the Versatility of A Broadcast <br> Studio Control Console

solves every stereo and monaural control problem
The 1 . 600 represents one of the most brilliont oudio ochievementi since the odvent of stereo. This "no com. promise" stereo preamplifier and control unit offers un. Ilmited versolilliy..., Includes every feofure necessary for the very finest reproduction - truly o monterplece of oudio design. Alreody in use profentionally, the 1 A. 600 oudio design. Alreody in use profestionolly. the LA. 600 os the finest stereo preamplitier avaitoble - of ony pricel it has a total of 12 input locks $[6$ sterea of ony pricel If hos a lotal of 12 input lucks $[6$ stereo poirs) which moy be selected by a front panel control. Seearate Turnovar and Roll-Of switches provide 24 positions at correct oqualizalion - independently adiustoble positions of cherrent avolizalion - A dudependeally adiustoble on coch vides estreme Aexibility In the control of your selected progrom sources - there is proctlicolly no mode of opera. plog which cannot be provided by these two switches. tion which cannot be provided by these two switches. A uniave Sridge Control provides conllnuousty variable
channel sepocation from full monaural to full stereo, of
il con opllonolly be used to regulato the 3rd chonnel oulput. A clutch-operotad Volume Balonce control pro chides independent or simultonsous lovel odlusiment of chonnels. Addilionolly, this control mor be vied to bolance curote then meons of on audble "null" - for more or curote than meterit low impednnce cothode follower outpuls ore pravided for connection to two bosic ampll. fiers for sterea omplifier) and in addilion to the 3rd chonnal oufput, thare or iwo lape oufpul locks for recording ourposes. Other features includes dual concentric inpui Treble conteols ar anch kise switchy Individual bass and Filier: Loudnels or each chonnels Rumble Fliteris Serateh Fliter: Loudnest switch: Tope Ploy.Monitor switch.
SPECIFICATIONS
TREQUENCY RESPONSE, $5.40 .000 \mathrm{cDi} \pm \mathrm{db}$. DISTOR. $110 N_{1}$ lest thon $0.05 \% \mathrm{IM}$ of 2 vollis out; less than $0.1 \%$ Hormonic, at 2 volis out. SENSITIVITY: Low leval 2.2 mv for 1 volt out; high lovel 94 mu for 1 voll oul;

- 6 Concentric Froni Ponel Controls - Concentric Rear Ponel Input Level Control - Inpuls for Any And All Program Sources - 3rd Chonnel Contralled Output
- Nolse.Free, Mum-Free, Distartlon - Vartoble Chonnel Separation - Predse "Null" Sterco Balancin - Response $5-40,000 \mathrm{cps}$ aning - Less Than 05\% IM Disio Less Than $05 \%$ IM Distortion
- Low level sensitivity 2 ? my por
- Low Level Sensitivity 2.2 mv For 1 volt Out Hum Nolse 8 etrer Thon 80 db Elow 2.0 Volts - 24 Separote feualizat
- Uses Spectal Low.Noise Resistors Channel

Tope Head Inpuls 1.8 mv for 1 voll oul. HUM AND NOISE: High level inputs better thon 80 db below 2.0 vells; low Iovel inpuls bellar thon 62 db below 2.0 volfs. INPUT IMPEDANCES, High level-250x ohms, Mog-90K ohmss Ceromic - 9bK ohmi in serion with Ag $4 \mu \mathrm{f}$, Tope Heod 470K ohms. OUTPUT IMPEDANCES, Moin Oulputs - is00 ohms; Tape Outpups - 2700 ohms; Bridged Output - 1100 ohmi. TONE CONTROL RANGE: Bass $\pm 15 \mathrm{db}$ at 30 cps ; Treble $\pm 15 \mathrm{db}$ of 10 Kc . RUMBLE FILTER $12 \mathrm{db} / \mathrm{dochove}^{2}$ Hope, down 15 db of 30 cDs . SCRATCH FILTER 12 db / octove slope. down 15 db at 15 Kc . CROSSTALK, Greater thon 55 db ieparation between chonnels. AUXILIARY AC OUTLETS: 4, 1 unswliched, TUBES, 7.7025, 2-Splenium Rectifiers. POWER REQUIREMENTS: 35 Walli, 105.125 volis $A C .50 / 00$ cycles. $S 12 E$. i4" $N \times 4.13 / 16^{\prime \prime} \mathrm{M} \times$ $111 / 2 " \mathrm{D}$. not including projections. Shpg. wt., 16 lbi .

Stereo Proomplifier and Audio Control Cenfer
Model LA.b00WX ...13.45 Down .......Net 134.50

## ONLY



YOU SAVE 35.00


2-loforeHts SK. 58 speokers.


## Li) (II) PTt CUSTOM STEREO PHONO SYSTEM

- Professionol stereo Preamp ond Cantrol Center 36 Watt stereo Power Changer Stereo Cortridge.Dlamond

This mognificent stereo muste system offers o reatiom in sound that is unmatched outside the consert halt. It is olsa priced to tove you inonor over the totol cort of the rame individual components if purchosed seporately - and, becouse they are perfectly molched, you ore ossured of peak oudio performance. System is reody for wse ofter symple installation ond interconnection - evervthing is supplied.
Systom includesí Lofoyelle LA. 600 Profostionol Slereo Preomplifier ond Control Conteri Lofoyelle LA. 31036 Wolt Sterea Power Amplifher, with 18 wolts worh shannel, Gloser. Steers GS.77 4-Speed Stervo Changer (less bose), GE VR-22 Compatiblo Stereo Cartridge with 7 mil diamond strlus; $2-$ Loforette $5 K-5 \mathrm{~B} 12^{\prime \prime}$ Cooxial Speokers. Complete with sobles, connectors, ond installotion intirustions. For 105.120 volth 80 CPB AC. HF. GF.090 WX FI STEREO SYSTEM os described obove. Shpg. wt., 73 lbs.
MF. 090 WX, MF.609WX, 31.50 Down ........................................ 314.95
Some os MF-699WX, but with choice of 2-Lofoyette Ellplation Sories bookihelf Enclosures or 2-Lalayelte CAB-16 Series Resonotor Enclosures (Ploose specitr cobinet model and finlih). Shog. wh., 149 lbt.
HF-7IOWX Not 372.25
Some or HF. 699 WX , but with $2-1$ Lofarelte $5 \times .11012^{\prime \prime} 3$-woy speokers in place of 2-Loforelte SK. 58 speokers. Shpe. wf., 91 lbs.
MF.711WX 34.25 Down 341.95
Some os MF7IIWX, but whith thoice of 2-Loforelte Ellolofor Sories Bookthelf Enclosures or 2-lofovelte CAB 16 Serion Reionotor Enclosures (pisose ipecify cobinet model and finish). Shps. wh., 167 lbs.

DK-3sOW-Woedbose for Gloser.Steers GS.77
309.25
Not 9.00

## 

LET LAFAYETTE PIICE TME NI.FI SYSTEM YOU ASSEMBLE
Write for o special bofoyelle price quotation on thith syitom of your own preference. Juit send us o list of the components


NEW GENERAL ELECTRIC 56-WATT STEREO PHONO SYSTEM


This combination is truly ofobulous system for listening to stereo recordy. Here is styling so Inviting that it lends itself to ony decoroting scheme. Whith this combinotion, you ore ossured of superb high fidelify performonce combined with versatility of operotion,

GE 6.7700 or 0.7710 S 5 .WATT STEREO AMPLIFIER 10. 7700 beige $C .7710$.whie pleose specity 186.15 (G.7700.belge, G. 7710 white, pleose specity finish) NEW GE VR. $22(7$ MILI STEREO CARTRIDGE WITH DIAMONO STYIUS
CE C.506 SPEAKER SYSTEMS (127.35 . 29.43 M - Mohooony B - Blonde C Cherry w - Wol nut. Pleose ipecify finish.)
Regulor Cotalog Price
523.64

## LAFAYETTE SYSTEM PRICE <br> > 24.00 Manthly <br> <br> 24.00 Manthly

 <br> <br> 24.00 Manthly}You save 104.72

Complete stereo systom os listed. Shpg. wh., 143 lbs. HF-627WX 41.89 Down Net 418.89 For Record Chonger Bose, See Index.
Some of HF-627WX, but with 2 Loforotto SK. 3812 " speokers ins:eod of the GE G. 506 lpeoker systems ond choice of either 2 Lofoyette Ellploflex Serles Booksholf Enclosures or 2 Lofoyette CAB.16WX Series Resonotor Enclosures (specily enclosure ond Inish). Shag. wh.. 117 lbs . HF-628WX 32.45 Down ............. Not 324.30

Some os HF.627WX, plus GE FA. 17 FM.AM Tuner finished in soddle brown, or FA-15 finlshed in beige, or linished in soddle brown of FA. 15 finlshed
FA. 16 finished in white. Shps. Wi., 158 lbs. HA.16 finished in white. Shpg. Wi.
MF-620WX $\quad \$ 2.28$ Down

- CHOICE OF RECORD CHANGER You may select, at no additional cons, the Garrard AC-60. Glater Steers G5-77, or Colloro TC-99 In any syatem that includes one of the above changers


Write for a special Lofoyelfe price quototion on the hiff iystem of your own oreference. Just send us a list of the components you desire, ond a special money-saving pockage price will be promptly sent to you.

## RECOMMENDED

## HARMAN-KARDON 20-WATT STEREO PHONO SYSTEM

There's no need to wolt for stereo. Choose this lop-economy music system now and enloy sovings on the individual components. Carefully solected by Lolay now, andic tifs any budget. ifs any budget

## COMPONENTS



## LAFAYETTE SYSTEM PRICE

M.00 Down lo.00 Morthir rou save $\mathbf{3 7 . 1 8}$

HF-637WX. Complete steree system as listed above.
Shpg. Wi., 69 lbs.
14.00 Down

For Record Chonger Bose, See Index.
Net 139.95 HF-638WX. Some as HF-637WX, plus MormoniKordan T-230 (with cose). Shpg. wit, 94 lbs. .................23.45 Down T-230 AM-FM Stereo Tuner (wame as obove, but with 2 Lofayette SK-128W $8^{\prime \prime}$ Ultro-1ine................... Nat 235.45 Same os obove, but with 2 Lofayette SK-128W 8" Ultro-Linear Duoxiol spoakers insteod of SK-124 Speoker Systems. Shing Bookshelf Enclosures (specify finish), insteod of SK-124 Speoker Systems. Shpg. WI., 96 lbs.
HF-639WX.
18.00 Down .....................................Net 179.95

## HARMAN-KARDON 30-WATT STEREO PHONO SYSTEM

This compact hi-fi sfereo phono system is on outstanding value. Looded with new fealures, every one of these carefully matched components combines to bring you the pleasure of smooth, realistic stereo reproduction from records.

## COMPONENTS

harman-kardon az30 30-WATt Stereo amplifier (Less case) . 109.95 GARRARD RC-121 CHANGER (Less Base) . . . . . . 41.65
NEW GE VR-22 (.7 MIL) STEREO CARTRIDGE WITH DIAMOND STYLUS 2-LAFAYETIE SK-S日 12" SPEAKERS @ 29.50

Regulor Cotalog Price


ELIPTOFLEX BOOKSHELF ENCLOSUHES


Shpg. Wi., 90 lbs. ... ............ 18.95 Down
HF-643WX. Some os 640 WX , plus choice 18.95 Down ............................. Ne1 189.50 shelf Enclosures or 2 Lofayette CAB.16WX Sther 2 Lofayelte Eliploflex Series Book. closure and finish). 2 Lofayette CAB.16WX Series Resonator Enclosures (specify on Shpg. Wi. QO
G-217W .. Enct lbs. 24.75 Down .................................................... 247.50
-217W. Enclosure for Horman-Kardon A230...n
For Record Changer Bose, See Inder
enclosure]. Shpg. Wi.. 118 lbs. MF-64 IWX.
28. 50 Down

Not 284.
For Record Changer Bose, See Index.



# TOP VALUE STEREO HI-FI SYSTEMS 

## HARMAN-KARDON 30-WATT COMPLETE FM-AM STEREO PHONO SYSTEM

An outstonding high-fidelity complote stereo iystem centered oround the new Mormon-Kardon TA- 230 '5tereo Festival' somplete stereo receiver. The compaciness of derign allows the components to be ploced in o very smoll cobinet or on amall design allows the componenis to be ploced in o very smoll cobinet or on omall thelf, tribilly.

## COMPONENTS



## LAFAYETTE SYSTEM PRICE

HF-687WX. Complete rereo tyitem os listed obove.
Shpg. wt. 121 lbs

Not 324.17 Boaktalf Enclosures or 2 Lofoyette CAB-16WX Sorier Resonator Enclosurer lidecliy onclocure ond finish)
onclosure and finish)

| 38.00 Down |
| :--- |
| TA-230 in copper, Other finishes ovailable................ 1279.95 | For Record Chonger Bose. See Inder.

12.95

G-213W. Enclosure far TA-230 in copper, Other finishes ovailable

## HARMAN-KARDON 30-WATT STEREO PHONO SYSTEM

Composed entirely of top-quolity components, this high fidelliy stereo phono systom bring: you living, excliling sound. Hear the flest in musical entertainment come to life through the mogic of stereo. The new Morman-Kordon A-260 complete amplifier offers o full arroy of contrals ond inpuls for oll occessory equipment.

## COMPONENTS

HARMAN-KARDON A-260 DUAL PREAMP: 30.WATT AMPLIFIER (Less Case)
GARRARD RC. 88 CHANGER (Less Base)
NEW GE VR-22 (.7 MIL) STEREO CARTRIDGE WITM DIAMOND STYIUS
2.JENSEN H.223F 12 SPEAKERS @ 72.50
199.95
24.45
145.00

## LAFAYETTE

 SYSTEM PRICE34.00 OOWN 21.00 MONHLTY YOU SNVE 87.76

MF-645WX. Complete stereo system as above.
Shige. Wi.. 125 lb . .............................. 34.00 Down
Net 339.95 MF. 646 WX , Some or NF. 645 WX , plus chole of elther 2 Lafayette Ellofoflex Series Bookshelf Enclarures or 2 Lolayelte CAB.16WX Serier Resonotor Enclosures ispecify enclosure ond linish). Shpg, wl., 173 Ibı................. 40.00 Down.................Nof 399.17 G.219W. Enclosure for Horman-Kordon A.260 ......................................................... For Record Changer Bore, See Index.
MF.647WX. Some of WF.645WX, but with 2 Lafoyelfo.Goodmoni SK. $11412^{\prime \prime}$ speokers with $61 / 4$ Ib magnets Instood of Jensen $\mathrm{H}-223 \mathrm{~F}$ speokers ond choice of eliher 2 lafoyelte with $61 / 4$ Ib magnets Instood of Jensen $\mathrm{H}-223 \mathrm{~F}$ speokers ond cholice of eliher 2 Lofoyelto
Ellptoflex Series Bookshelf Enclosures of 2 Lofoyolle CAB-16WX Serles Resonolop Ellptoflox Serias Bookshalf Enclosuros
Enclosures (ipecify enclos ure and finish).
Shpg. wl.. 217 lby . .......................... 43.32 Down ............................. Net 433.16 Some of MF-645WX, bul with Mormon-K ordon $t .250 \mathrm{PM}$ Tuner. Shpg. Wi., 150 fb s. HP- 686 WX .
44.25 Down

## 



# RECOMMENDED MONEY-SAVING STEREO 



## new Rogen 12 Watt COMPLETE STEREO SYSTEM

Now, everyone con offord to hove a high grode high ildelity complete stecephonic systom. This top performing system is one of the biggest volues ever offered.

## COMPONENTS

BOGEN RC-4 12 12-WATT COMPLETE STEREO RECEIVER
GARRARD RC-121 CHANGER (Loss Boso)

GARRARD RC- 121 CHANGER (Loss Soso)
NEW GE VR- 22 (.7 MIL) STEREO CARTRIDGE W!....
2-LAFAYETTE SK-124W HIGH COMPIIANCE BOOKSHELF SPEAKER SYSTEM
@ 17.50
(Pleose specify finish)

## Bogen 24-WATT STEREO PHONO SYSTEM

Here is o superb high fidellity stereo system with outstanding components to bring out the extroordinary reolism of the cow stereo recordings. Many features make this com bination sotistying to the most discriminoting musie listeners.

## COMPONENTB

SOGEN DB- 212 24-WATT STEREO AMPLIFIER (Less Cobinet)
.. 119.95 GARRARD RC-121 CHANGER (Less Base) 11.65 NEW GE VR-22 (.7 MIL) STEREO CARTRIDGE WITH 24.45 2-UNIYERSITY SIYIUS …...................................................................................24.45

## Regular Catalog Price 255.65

LAFAYETTE SYSTEM PRICE

HF. Complete storeo system os listed obove. Shpg. wi., 45 Ibs.
HF- 568 WX .................................. 20.45 Down ......................................... Net 204.52
Recommended onclosures for obove syrtem: Choice of either CAB.16WX Series Resonofor Enclosures, or Lofoyetto Eliptoflex Serios Bookshalf Enclosures.

$$
\text { Set of } 2
$$

(Please specify onclosure and finish)
C-186W. Motol Enclosure with legs for sogen DB 212-........
Not 57.50
Nof 7.50 For Pecord Chonger Bose, See Index. Somo as HF-568WX, bul with 2 Lafoyelto $5 K-58 \quad 12^{\prime \prime}$ speokers insteod of Univer-
sity UC-122 speokers ond choice of either 2 Lofoyetto. Eliptoflox Serles Bookshelf Enclosures or 2 Lofoyelte CAB-16WX Serles Resonator Enclosures (specify enclosure ond finish). Shpg. wi., 104 lbs.
HF-570 WX.................................. 25.59 Down ..................................................... 255.90
Some os HF-568WX, plus Bogen FM-51 Tuner (less cobinet). Shpg. wt., 59 lbs.



- select your own cartaldeg - You moy sub. stilute the Shure M7D, Piekering 371 C , or tho now ElectreVolce 31 MDF in any systom shown with the GE VR-22 of no odditional cost. The Shure M30 moy be substituted at

LET LAFAYETTE PRICE THE HI-FI SYSTEM YOU ASSEMBLE
Write for a special lofayette price quatation on the hi-fi system of your own preference. Just send us a list of the componsits you desife, ond a special money-soving pockoge price will be promptly sent to you.

## SYSTEMS FEATURING Bogen COMPONENTS



## NEW Bogen 60-WATT STEREO PHONO SYSTEM

Eniay the latest stereo records with this outstanding high fidelity steroo phono system. With this system, you can cantral all iypes of sterea and monaural program sources with cos. Matched by Lafayelle audia experts, this combination will delight the mas critical eors.

## COMPONENTS

8OGEN DB-230A 5TEREO CONTROL CENTER \& DUAL 30.WATT AMPLIFIERS NEW COULARO TC. 99 CHANGER (Less Bote)

## 2-JENSEN H-223F $12^{\prime \prime}$ SPEAKERS @ 72.50

## 81

## LAFAYETTE SYSTEM PRICE

33.38 Down - 21.00 Monthly

You save
83.45

Complete stereo system as listed above, Shpg. wt., 86 lbs
HF-611WX
33.38 Down

Not 333.81
Recommended enclosures for obove system: Choice of either CAB.16WX Serles Resono tor Enclosures, or Lafayelto Eliptoflex Serios Booksholf Enclosures. (Please specify onclosure and finish). Sel of 2 ............ 5.75 Down ............ Net 57.50 G-188W. Metal enclosure with legs for DB.230A

For Record Changer Base. See Index.
Same as HF-611WX, but with 2 Lafoyetto. Goodmans SK-112WX $12^{\text {in }}$ speakert with $3 \mathrm{~K} / \mathrm{lb}$. magnots instead of 2 Jensen $\mathrm{H}-223 \mathrm{~F}$ speokers, and choice of 2 Lafoyelte Ellipto. flox Sories Booksholf Enclosures or 2 Lofayette CAB.1owX Sories Resanator Enclosures (specify enclosure and finish). Shpg. wh., 157 lbs.
HF-612WX 40.18 Down
Same ar HF-611 WX, plus Bogen FM. 51 FM funer (less cabinal). Shpg. wh., 100 lbs .

HF-6IJWX .................................42.58 Down .........................................t 425.81

2. STEPHENS 120FR


Regular Catalog Price $\mathbf{3 8 5 . 6 0}$ 31 GARRARD RC-121 CHANGER (Less Baso) l Less Cabinell sivius 41.65 $\begin{array}{r}24.45 \\ \hline\end{array}$ NEW GE YR-22 1.7 MIL) STEREO CARTRIDGE WITH DIAMOND SIYIUS 120.00

## NEW Rogen 20-WATT COMPLETE STEREO SYSTEM!

This complote high fidelity stereaphonic system gives you averyithing you noed for stereo or manaural reproduction. You con listen to the wonderiul sound from your stereo records ond stereo broadeasts. Superiority of performance and compactness of design heynate this perfectly matched high fidelity system

## COMPONENTS

OOGEN SRB- 20 20. WATT STEREO RECEIVER \{Less Cabinel LAFAYETTE SYSTEM PRICE

30.85 Down-19.00 Monthly You Save 77.12

Complete stereo system as listed above. Shpg. Wh., 65 lbs
HF-614WX
30.85 Down

Net 308.48
Recommended enclosures for above systems. Choice of oither CAB.I6WX Series Resono for Enclosures or Lafayelto Eliptoflon Sories Booksholf Enclosures. (Please specify en. closure and finish).
Sel of 2 ....................................5.75 Down
Not 57.50
G-19SW. Metol Enclosure and logs for SRB-20.
For Record Changer Base, See Index.
Some os HF.614WX, but with 2 Lafoyette 5 K. $58 \quad 12^{\prime \prime}$ speokeri instead of 2 Stephens 120 FR peokers ond choice of nither 2 Lofoyelte Eliptoflez Series Booksholf Enclosures or 2 Lofoyolle CAB-16WX Series Resonotor Enclosures (specify enclosure and finishy. Shpg. wh., 105 lbs 29.05 Down Net 290 . 7 HF-615WX 29.05 Down Not $290 .{ }^{7}$ Some os MF.614WX, but with 2 Lofoyelte. Goodmons SK-11OWX $12^{\prime \prime}$ speohers with $1 \% / 4 \mathrm{lb}$. mognets insteod of 2 Stephens 120 FR spooher, and shoice of either ${ }^{2}$ ? Lofoyetto Eliptofien Series Boohsholf Enclosures or 2 Lofoyefto CAB.16WX Series En. closures (specify onclosure ond finish). Shpg. Wf., 123 lbs.
HF- 616 WX
32.88 Down HF-ठ16WX

Net 328.82
 - SELECT YOUR OWN CARTRIDGE You may substitute the Shure M7D, Pickerine 371 C , or the new ElectroVoic $31 \mathrm{mD7}$ in any iystom shown with the GE VR- 22 of
no additional cost. Thy Shuro M30 may be substituted of no additional cost. Thi Shur


## SCOTT 80-WATT STEREO PHONO SYSTEM

This comblnation is guaranfeed to reproduce sound of the most foithful ond pleasing quality. The untque speaker systems permit plocement of enclosures in "difficult" derorating sifuations with exellent stereo ffect. Superb design features offer oll the focllifies for stereo reproduction from ony progrom sources.

COMPONENTS

| SCOTT 130 STEREO PRE-AMP (Less Case) | 169.95 |
| :--- | ---: | ---: |
| 2-SCOTT 250 40-WATT AMPLIFIERS af 129.95 | 259.90 |
| GLASER STEERS GS-7T CHANGER (Less Base) | 59.50 |
| NEW GE VR-22 (.7 MIL) STEREO (ARTRIDGE WITH DIAMOND STYLUS | 24.45 |
| 2-JENSEN TR-10 TRI-ETTE 3.WAY SPEAKER SYSTEMS af 114.50 | 229.00 |
|  | Regulor Cotolog Price 742.85 |

## Lafayette System Price

37.50 DOWN 31.00 MONTHLY


rou SNVE 167.85
MF-617WX. Complete thereo system as listed obove.
Shpg. Wl., 121 Ibs. ................................ 57.50 Down
Net 575.00
G.149W. Wood cose for Scott 130 in Mahogany. Uther flnithes ovalioble ....5.00 Down
K.350W. Wood base for GS.77. Specify finish

HT. 618 WX. Some as HF.617WX, but with 2 Jensen 55.100 Speoker systemi Instead of the TR-10 Speoker Syitems.
Shpg. Wh., 180 tbs. ........................... 70.00 Down
HF-620WX. Same os HF-617WX, but with 2 Lofoyelte. Goodmons..... Net 669.95 speakers with $61 / \mathrm{lbs}$ I. magnets instead of of either 2 Lofoyette Eliptoflex Series Bootshif Enclosures or 2 Latoyent CA choice Serles Resonator Enclosures (specify enclosure ond linlsh ) or 2 lofoyetto CAB. 16 WX Shpp. Wt., 186 lbs . .............................. 56.95 Down
HF-619WX. Some os HF.617WX, plus Scoti $310 . \mathrm{C}$ FM Tuner (less cose). Net 569.50
Shpg. Wi., i33 Ibs. ............................. 71.42 Down
Net 714.20

## SCOTT 40-WATT MODEL 299 STEREO PHONO SYSTEM

An eycellent high flidelley stereo phono system designed to bring you top performance both your recard collecition, monaural and sterec. These motched companents provide COMPONENTS

Lafayette System Price

34.00 DOWN 21.00 MONTHLY

YOU SAVE 85.84
MF-62 IWX. Camplete stereo system os listed above.
Shpg. Wt., 141 lbs.
34.00 Down

Not 339.95
Rocommended enclosures for obove systems: choice of either CAB-16 WX Serios Resona. tor Enclosures, or Lafoyette Eliptoflex Series Boaksholf Enclosures. (Pleaso specify on. closure ond finish.) Sot of ? ..... 290 In Mohogeny. 5 . Wown S.140W. Wood Case for Scoll 299 In Mahogany. Other finishes ovolloble.

For Record Changer Base, See Index. University 312 soeokers and shole of ith 2 lofoyote Enclasures or 2 Lofoyerle CAB.16WX Secles 2 Lofoyotte Eliptoflex Series Booksholf ond Hnish.1 Shog. Wit. 169 Ibi. MF.624WX. Some as HF.621 WX, plus Scoll 310 . C FM Tuner (lois cose)

Net 334.85
Shpe. wt., 153 lbs.
47.45 Down
.Net 474.50


 Voice $31 \mathrm{mD7}$ in ony system thamn 37 C , or the new Eicetro. no additional cost. The Shute M30 with the CE VR 22 o on odeditional cost of $\$ 24.00$. M3D may be substituted at

## afayette RECOMMENDED DELUXE STEREO

## MUSIC SYSTEM WITH FISHER COMPONENTS

## FISHER 4O-WATT STEREO PHONO SYSTEM

Masnificent home music system that combines the finest high-fidelity components avolloble, for superlative reproduction from stereo records. You'll reatize the full possibillties of stereo reproduction and thrill to the excitingly real sound of musical entertoinment that only stereo can bring.

COMPONENTS
FISHER X-lOIA STEREO MASTER CONTROL \& DUAL
20.WATT AMPLIFIERS (Less Case)

GARRARD RC. 88 CHANGER (Loss Base) ...............
NEW GE VR- 22 (1.7 MIL
DIAMOND STYLUS
JENSEN KT-233 MAICHED STEREO TWIN SPEAKER
SYSTEM

## Regular Catalog Price 442.26

 LAFAYETTE SYSTEM PRICE35.25 Down 21.00 Monthly YouSave 89.76

```
Complete stereo system as listed above. Shpe. Wh., 100 Ibs
HF.650WX 35.25 Down
Enclosure for Fisher X-101A. Specify finish.
Q.101W .................................... 5.00 Down
Net 352.50
Changer Base, See Index
Same os MF-650WX, but with 2 Jensen \(\$ 5.100\) Complete Speaker Systems (specify (inish) insteod of Jensen KT. 233 speoker system. Shpe. Wi., 158 lbs HF. 65 IWX
50.95 Down
Net 509.50
Same os MF-850WX, but with 2 Lafayette. Gaodmons SK. 112 WX 12" speakers with \(31 / 8 \mathrm{ib}\) mognets instead of Jonsen KT- 233 speaker and choice of either 2 Lafayette Ellptoflox Series Boakshelf Enclosures or 2 Lofoyette CAB. 16 WX Series Resanator En closures (specify enclosure and finishl. Shpg. Wt., 144 lbs.
```



```
Same as HF. 650 WX plus Fisher 101R FM/AM Stereo funer. Shpg. Wi., 120 lbs HF.690WX
```



## FISHER 60-WATT STEREO PHONO SYSTEM

The finest uftro-deluxe stereo phano system for those wha demond the very highest The finest all components ore gems for quality in the many auality of saund reproduction.

## COMPONENTS

FISMER 4OO.CA STEREO MASTER AUDIO CONTROL PREAMP
(Less Case)
FISHER SA- 300 60.WATT STEREO AMPLIFIER
GIASER STEERS GS. 77 CHANGER
NEW GE VR-22 1.7 MII) STEREO CARTRIDGE WITH
DIAMCND SIYLUS
DIAMCND STYLUS
JENSEN KT-233 MATCHED STEREO TWIN SPEAKER SYSTEM
24.45

## Regular Catalog Price 588:40

## LAFAYETTE SYSTEM PRICE

45.00 Down 27.00 Monthly You Save 138.90

## Camplete steroo systom as listed obave. Shpe. Wi., 117 lbs HF-653WX <br> 45.00 Down <br> Net 449.50

Some as HF. 653 WX , but with 2 Jensen $\$ 5.100$ camplete speaker systems (specify finish). Insteod of Jensen KT- 233 speaker system. Shpe. WP., 176 lbs HF-654WX
59.30 Dawn


NEW GE VR-22 (.7 MIL) STEREO WITH DIAMDND CARTRIDGE


Enclasure for Fisher 100.CA. Specify finish.
G.101W 5.00 Down

Net 24.95 PK-350W Wood bose for GS.77. Spectify finish

Some os HF.653WX, but with 2 Lafoyette. Goodmans SK-115WX is" speakers instead of Jensen KT. 233 speaker system and 2 Lofayetle CAB. 19 Series Universal Base Reflea Enclosures (specify finish). Shpg. w1., 252 lbs. HF. 655 WX

Fisher 101R FM/AM Stereo Tuner. Shpg. wi 137 lbs HF.691 WX


- SELECT YOUR OWN CARTRIDGE O You may substitule the Shure M7D, Piskering 371 C , or the new ElectraVoice 31 MD7 in ony sytem shown with the GE VA-22 o no addifional cost. The Shure M3D may be substituted of on additional cost of \$24.00.

recommended Pilot stereo hl-f systems PILOT 3O-WATT STEREO PHONO SYSTEM
Here it a complete stereo phono system which has been designed to pleose the hill enthuslast who hos poth a Ilmited amount of space ovallable and a Ilmited budeet. The unusually high auality of Pllat electronic components ond Electro-Volce speaker syitems ossure most sotisfying reiults.


## COMPONENTS

PILOT 240 30. WATT STEREO PREAMP. AMPLIFIER
COLIARO ISC. $70 E$ CHANGER WITH SHIELDED MOTOR

DIAMOND STILUS


## Regular Catalog Price 324.96 <br> LAFAYETTE SYSTEM PRICE

25.95 Down-16.00 Monthly You Save 65.46

Complete stereo system as listed obeve. Shpe. Wi., 71 ibs.
HF. 596 WY
25.95 Down ................................................................................259.50

Recommonded onclosures for obove systems Choice of elther CAB-16WX Serlei Recong. top Enclosures, or Lofoyelte Etlpfoflex Series Boohihelf Enclasures. (Pleose bpectify enclorure and flnish). Set of 2 ....................... 5.75 Down ....................... Net 57.50

## For Record Chongers, See Index.

Some of HF-596WX, bur with 2 Lofoyette SK. $5812^{\prime \prime}$ speokors insteod of $2 \mathrm{E} . \mathrm{V}$ 12 TRXB Speakeri and choic of elther 2 Lafoyette Elipioflen Serios Bookihelf Enclosures or 2 Lafayette CAB.1 WWX Series Resonatar Enclosures (rpecity enclosure end finish). Shpe. Wi. is 113 lbi HP-597WX
26.50 Down

Net 264.95
Same oi MF.S97WX, but with 2 Lofoyeffe.Goodmons SK-110WX $12^{\text {m }}$ speakert with $1 \%$ lbs, magnets initeod of 2 E.V 12 TRXB ipeakers ond choice of elther 2 Lafoyette Elfpiofler Series Bookshelf Enclosures or 2 Lofoyplo CAB. 16 WX Serles Resonator En. cloturet (ipecify enclosure ond finlish). Shpg. Wy.. 131 fbs .
NF-598WX …….............................10.50 Down .....................................................304.95
Some oi MF. 596WX, plus Pitot 580 iteceo FM.AM Tuner. Shog. Wi., 95 Ibs. HF-599WX ………….................... 40.35 Down..................................... Net 403.50

## PILOT 40-WATT STEREO PHONO SYSTEM

Another ifereo system designed for the man who desires the befter things in life. A truly fine high fidellity stereo system for fully realistic sound reproduction. Mos oll

## COMPONENTS

PILOT 245A 40.WATT STEREO PREAMP.AMPLIFIER
GARRARD IC. 88 CHANGER (LeII Bose)
NEW GE VR. 22 (.7 MII STEREO CARTRIDGE WITH DIAMOND STYIUS
... 199.50

## 2.UNIVEASITY $31212^{\prime \prime}$ SPEAKERS @ 71.54 <br> Regular Catalog Price $\mathbf{4 2 5 . 3 4}$ 3 LAFAYETTE SYSTEM PRICE

### 34.00 Down-21.00 Monthly

You Save 85.39
Complete sferee syetem as listed obove. Shpg. Wi. 68 Ibi
600wx
Hf-600WX
34.00 Down

Nol 339.95
Recommended enclorures for obove system: Cholce of either CAB-18WX Serles Resono. for Enclosures, or Lafoyelfe Elipioflez Serlei Bookshelf Enclosures. (Pleas ipectity enclosure and finish). Set of 2 ........................ 5.75 Down .......................... Net 57.50 Bore, see index versity 312 speakeps and cholce of Lefoyefte Sk-58 ipeokers Insleode of 2 Uni closures or 2 Lafoyette CAB.16WX Serles Resonotar Enclosures foriet bookshelf En finish.) Shog. Wi. 116 lbs MF. 601 WX
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 B\%

- SELECT YOUR OWN CARTRIDGE O You moy sub. stifute the Shure M7D, Pickering 371C, or the new ElectroVoice 31 MD7 in any iystem shown with the GE VR. 22 of no odditional cous. The Shure M30 moy be substituted of on additional cost of \$24.00.


2-UNIVERSITY 312


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Mere Is o syrtem designed for the connoliseur who desires the best in stereophonic with spocious realism possible only with stereo sound. Feotures extreme floxibllity and case of aperalion.

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Complete stereo system as listed above. Shpg. wh., 82 Ibs.
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For hecord Chonger Bose, See Index,
Some os MF-604WK, but with 2 Lafoyelte SK. $5812^{\prime \prime}$ speokers insteod of 2 Electro.Voice 12TRXB Speakers ond chaice of ither 2 Lofoyetto Ellploflex Series Backthelf Enclosures or 2 Lofayette CAB. 16 WX Series Reronotor Enclasures (specify enclasure and finishl. Shps. Wl., 124 lbs
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NEW! FISHER FM-AM STEREO PHONO SYSTEM


FISHER 40.WATT COMPLETE STEREO SYSTEM Flowless performonce and compociness of desion ore youri with this outstonding
stereo hi.fi system. Now, you con hove stereophonle mutic from every pregrom soupce. The quality of this you con hallills the most exoctlng demands of the percep. flive music lover.

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FISMER TA. 600 COMPLETE RECEIVER (LQ Is COI甲) .................................................... 349.50
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## harman kardon <br> <br> NEW! HARMAN-KARDON TA 230 "STEREO <br> <br> NEW! HARMAN-KARDON TA 230 "STEREO FESTIVAL" COMPLETE STEREO RECEIVER

 FESTIVAL" COMPLETE STEREO RECEIVER}
## facilities \& controls for every stereo need dUAL 15 WATT AMPLIFIERS FEATURES NEW 7408 OUTPUT TUBES H-K FRICTION CIUTCH TONE CONTROLS O SILICON POWER SUPPLY \& D.C. HEATED PREAMP FILAMENTS SEPARATE ELECTRONIC TUNING BARS FOR AM \& FM

## NEW! "BALLAD" A230 DUAL STEREO PREAMP WITH 15 WATT AMPLIFIERS

The new Stereo Festival representi, the successful crystol lizotion of oll stereo know.how in a single superb instrument. A complete electronis center: dual preomps with input forilities ond controls for every stereo function in cluding the FM multiplex sorvice. Seporote sensitive AM ond FM tunors for aimulcost reception. And o greot now new H-K Friction. Clutch tone controls to odjust boss and treble seporotely for each chonnel. Silicon power supply provider excellent requlation for improved ransient ro. sponse. D. C. heoted proomp filoments insure freedom from hum. 4 new 7408 output tubes dellver distortion.free power. Separote elecrronic tuning bors for AM ond FM: new swivel high O forrito loopstick for increosed AM sensitivity. FM Tunor-Sensitivitry 2.5 microvolt for 20 db of quieting; selectivity: 240 KC bondwidth; frequency range is 88.108 MC ; distortionz less thon $0.5 \% 1 \mathrm{M}$ of $30 \%$ modulation; hum level, 60 db below $100 \%$ modu. lotion, radiotion, within FCC requirements. AM TunerSonsifivity: 80 microvolts per meter; seloctivity: 10 KC bondwidth; distortion: less thon $1 \%$ hormonic; frea. re sponse: $\pm 3$ db $20.5,000$ cyeles. Conprol Soction- is front ponel controls, AM Tunings FM Tuning; Function (Extro, AM, FM, FM-AFC, AM-FM, FM.Multiplox, Phono (Tope); Mode (Rev., Stereo, Monourol, Right, Lefi), Bol. Trope): Mode (Rev.. Stereo, Monourol, Right, Left) Bol.
(1) \& 2): Equalizotion (RIAA for Phono \& NARTB for Topels Scrotch Filter; Rumble Filter; Contour; Phose So lector; Power Push Button. 3 Chossis controly (2 output bolonce ond impedonce selector) ond 8 inputs ( 2 phono, 2 tope heods, 2 extro, 2 multiplex). 3 Outputs: Tope (2), Multiplex (11). Hos seporote bor type tuning eyes for AM Ond FM. Audio Section-15 woths per chonnal of lest thon $0.6 \%$ hormonic distortion. Peok power is 30 wotts per chonnel. Frequency rosponse: $\pm 1 \mathrm{db} 35 \cdot 20,000$ epi af is woths. Hum inoudible. Cross tolk better thon 50 db Input leveli phono, 3 mv of 1 KC tope, 1 mv . ot 250 cps; oux., 300 mv . tope output leveli I v. from eoch chonnel. Oupput impedonces \& \& 16 ohms. Totol of 20 tubel. Escutcheon fintith Brushed copper, broll, or solin chrome. Lesi cobinep. Size: $15 \% \times 5 \% \times 12 \%$ \% power Coniumption 175 woths. Shpo. wt., 35 lbs.
G-2lowx (Copper finish) ....26.00 Down......Net 259.95 G-211WX (tross finish)... ...26.00 Down .......Not 259.95 G.212WX (Solin Chromelinith) 26.00 Down Nel 259.95 AC30. Copper \& block metol enclosure for TA230
G-213w WW30. Hondsome hordwood walnut enclosure for TA230 GR-214W Shpo.wt., 4 lbs. 5.00 Down... Net 29.95 FW30. Hondsome hordwood fruitwoed enclosure for TA230 GR-21sw Shpo.wf., 4 lbs. 5.00 Down.... Not 29.95

The $A 230$ is a superb new stereo omplifier incorporoling duol preomps ond duol 15 wolf power ompliflers on one stritingly hondsome chossis. Equally effective for mono. phonic or sfereophonic roproduction. Among bts mony new Foolures ore: H-K Friction. Clutch ton Controls odjusting boss ond treble seporotoly for each chonnol and lock outamoticolly for gonged operolion. Third Chonnel Speoker Selecior permits the odd tion of a 3rd chonnel speoker. Self blos of the output fubos ossure the finest troublefree performonce. Hos llluminoled push-button on/off switch. Fronl Ponel Controls includen Troble (duol), Boss (dual). Loudneas, Bolonce, Mode (Stereo, stereo rev.. mono.. mono. right $s$ toltl. Funclion $(t$ ope, lo/phone lo, phone hi, tuner and oux/tope hi). Rumble Fitter, Contour, 2 Speoker Selector Switches, puih-button On/Off. Chosilis Conirol hos 2 hum odiustmonth ond 2 output tube bolonce controls. Reor Ponel Con. frals: Equallizotion for iope NAATB ond phono RIAA chonnels, Speoker Impedonce Se. lector switch, ond Speater Phosing switch. Output leval is 15 wotts per chonnel of less thon $1 \%$ hormonic disportion. Frequency response: $\pm 1 \mathrm{db} 15.70,000$ cyclos of normol listening level. Hum inoudible. Chonnol crosstolk better thon 50 db . Input levelsi Aux., funer ond phono $(\mathrm{hi})-300 \mathrm{mv}$; phono $(10)-3 \mathrm{mv}$. at 1 KC.. wlll not overlood with input level below 180 mv ; lope-1 mv . of 250 cps . Tope oufput record. ing lovels 2 volls from each chonnel. Output Impedonces 8 and 16 ohms. Mos 2 iwitched $A C$ outlets. Less cobinel. Size: $13 \% \mathrm{~K} 11 \% \times 4 \% \mathrm{~m}$. Shpe. wi., 18 lbs . 109.95 GR-216WX ......................... 11.00 Down GC23 Enelo
G-217W

## NEW! "CHORALE" A260 DUAL PREAMP \& DUAL 30 WATT POWER AMPLIFIERS

The Chorole incorparotes o duol preomp and dual 30 woft power omplliters on one chossis. Unusuolly versotile, It con be used to reproduce every monophonic or stereo. phonic progrom source with unsivoled fidelity. Feotures 3rd chonnel speoker selocior permitiling the use of o 3rd chonnel for ultimote reollsm. An output receplocle is provided for 3rd chonnel ompllfier. Mormon-Kardon Friction-Clutch tone controls provided for 3rd chonnel omplifier. Mormon-Kardon Friction-Clutch tone conirols adjust bass and treble seporotely for eoch channel and lock automaticoliy to provide the conveniance of ganged operation. Oinar tearures includes iffuminoted push but. ton on/off switch permits the instrument to be lurned on ond of without offecting the control setfings. Impedonce selector switch choosts 4, 8, of to ohms for
Special rope outputs for stereo recording ore unoffected by tone conirols
Front panel controls ( 13 tolol), Truble (duol), Boss (duol); Loudness; Mode (Stereo rev., Steroc, mono. mono. right ond left); Function selector (oux. ., oux. 2, funer, pheno, tope heod); Rumble Filier; Scrotch Filter; Confour; 2 speoter Selector switches Equolizotion Selector; On/Off: Bolonce. Totol of 6 duol stereo inputs: mog. ceromic. crystol, lope hd., funor. oun. 1, oun. 2. 3 outputs: 2 pop output, ithird chonnel output. Hos 2 output tube bolonce controls, ond 2 switched AC receptocler. Output levels 30 woth of less thon $1 / 2 \%$ hormonic distortion. Peok power outputs 60 wotts per channel. Frea. responser $\pm 0.5 \mathrm{db} 15-30,000 \mathrm{cps}$, of 1 wolf. Hum is 95 db below 30 wotts. Chonnel crosstolk better thon 50 db . Tone confrol ronge $\ddagger 16 \mathrm{db}$ of 50 cps, ond $\pm 16 \mathrm{db}$ of $10,000 \mathrm{cps} .12 \mathrm{db} /$ octave rumble filter below 50 cps ; ond 12 $\mathrm{db} /$ octove scrotch filter obove 6000 cps . Input levelsi oux. ond funer $-300 \mathrm{mv} ., \mathrm{h}$ megohmi phono-10 (mog)-3 mv of 1 KC ; phono- $\mathrm{hi}-60 \mathrm{mv}$ of $1 \mathrm{KC;}$ tope- 1 mv o 250 cps. Tope output level: 2 volfs from coch chonnel. Equolizotion: R1AA ond NARTB. Totol of 10 tubes, 4 silicon diod rectiflers ond 2 silican rectifiers. Power consumpllon: 200 wotts. Size: $15 \% \times 4 \% \times 13 \%$. Shpo. wi., 35 lbs. c-218 WX 20.00 Down

Net 199.95 AC00. Enclosure for $\mathbf{A} 260$.
G-219w

## harman kardon HIGH FIDELITY EQUIPMENT

## HARMON-KARDON MODEL "LUTE" A22O STEREO AMPLIFIER

An omplifier designed to bring qualliy component stereo within the reach of everyone. The "lute" Incorporates dual sterco preompi and iwo hum.free. distortion-free 10 woll pawer ampliflers all in one handsome copper and block chassis. Pook power is 20 watts for eoch chonnel. The 4220 is equally effective os single 20 wott man. oural amplifier; for those preferring to stort out with one speoker with the thought of eventually enlorging their $i$ ys. tom for stereo. Whith the new llluminated push button on/off swlich you need only set the conirols once-and simply presi the button for superb performance every ime. Contrals Include on extremely elfective bolence

## NEW "MADRIGAL" ST360

## The new Marmon-Kordon Madrigal Madel ST360, octvally has everthine. It has completely teporate AM and FM

 trant ends for AM/FM simulcast reception. Eoch has its own efficiont electrenic bor tuning indicotor. Provision is made for the new MA350 Multiplex Adapter to plug into chastir to receivo Crosby compatible multiplez (FM stereol broadcasis. The FM section feoturen Armilfong circull with zero time constont gated beam limiter, FasterSeeley discriminator, and outomatic frequency control. The RF section includes 3 wide band IF stages and a wids bond 10.6 MC ) discriminator. The AM Section feo. tures 2 brood bond if stages with "broed nose" for excellont high frequency responses "brood nose" for provides nolse-free long distonse reception. Seporote AVC circuil avolds overlooding of detector impraving itheorlty. Front Ponel Controls include AM Tuning, FM Tuning, Push Front Ponel Controls include AM Tuning, FM Tuning, Puih Buttons for AM nolie filter, AM, Stereo AM.FM, Stereo Multiples, FM, FM.AFC and Power Off. There are 2 low impedance receprocles for oll signal outpuls. FM rection -Semitivity is 0.95 microvalts for 20 db quieting on 300control, separate ganged treble ond bass controls, a gonged dynamic loudness contral and camplete stereo. monoural funclion swifch. Provided are inputs for magnatic phono, crystal ar ceromic phono, funer/ouxi 2 stereo tope output receplocles and on $A C$ convenience receptocte. Fre. quency respanse is $20.20,000$ cycles $\pm 1 \mathrm{db}$ at normal listening level with hormonic distortion of less thon $2 \%$ of 10 wotfs ond $1 / 2 \%$ of 5 watts with readings taken of 1,000 cycles. Tube compliment consists of $3.12 \mathrm{Ax7}, 1.12$ AU7. 47408 . Dimenslons ore $14 \%$ "W $10 \mathrm{y} \mathrm{s}^{\prime \prime} \mathrm{D}$ $45 / 16^{\prime \prime} \mathrm{H}$ (excluding knobs) Shpe. w1., it lbi.
G-220WX with coge ...... 8.00 Down ........... Net 79.95

## AM \& FM STEREO TUNER

tortion: less thon $0.1 \%$ 1 M of $30 \%$ modulation. Frea. responses $t 1 / 2 \mathrm{db} 20 \cdot 20,000 \mathrm{cps}$. Hum level, 60 db below $100 \%$ modulation. Output level is 1.5 volis for $100 \%$ modulation. AM iection-Sensitivity: 20 microvolts per meter. Selectivity, 16 KC bondwidth. Distortions less thon $0.8 \%$ hormonic. Frequency responit $\pm 3 \mathrm{db} 20$. 8000 crcles. Hum level is 55 db below $80 \%$ db 20. Escutcheon finlih in brushed copper. lesi coes. Slze Eiculcheon finish in brushed copper. Lesi coge. Sires
$151 / 4 \times 43 / 4 \times 12^{1 / 4}$. Shps. wi., 28 lbs. G.221WX Net 199.95 Madel CX60. Enclosure in brushed copper with black disploy panel.
G-222W .........Shpp, wl., $7 \mathrm{Ib} . . . . . . . . . . . . . . . . . . . . . . . . .12 .50$ MA350 Multiplex Adapter. Plug in stereo odopter designed for use with the S $\$ 360$ to provide receptlon of the new Crosby campatible FM tereo broodcasts. Outpul leveli I volt. Input level: 30 mv . Distortion less thon $1 \%$ tolol hormanic. Noise levels -60 db . Crosstalks -40 db . Frea. respanse: $\pm 1 \mathrm{db} .30$ to $15,000 \mathrm{cps}$. Shpg. wt. 5 lbs . 0. 223 ................... 5.00 Down .................... Nel 49.95

## "SONNET" T230 STEREO AM \& FM TUNER

The 1230 ensinaesed wilh iklll ond precision is the com. ponion luner to the A230 stereo omplifier. It incorporotes seporote AM and FM sections far recelving stereo broad. casts throvgh one unle. Con be readily adapted for mul. fiplex reception. The Sonnel emplays o new low noise front end consinting of grounded grid, cathode led RF amplifier, double tuned over coupled Rf Interstage, and law nolse grid-fed trlode mixer, followed by wideband tronallionolly coupled if sloges. Featuret Armstrong cif. cult with pentode limiter, widebond forper. Seetey dis. criminator ond outomatic freavency contral. The AM circult is a superhelerodyne with AVC and o now buitrin crovolis for 20 db of quieting on 300 ohms ontenno in. put. Selectivity: 240 KC bandwidih. Frequency ranget 88 . $108 \mathrm{M} . \mathrm{C}_{\text {. }}$ Drift is $\pm 5 \mathrm{KC}$ monimum. Hum leveli 60 db below $100 \%$ madulation. Distortions less thon $3 \% \mathrm{~lm}$

## NEW "LYRIC"

The lyric li o mognificent new FM funer designed to occommodote the long awoited multiples compotlble stereo broadcosting. Provides signal and power iupply to drive the multiplez odopter, (MA-250) ond the phyilical space within its enclosure to occept it. Its RF stoge conslits of - "Shoded Grid" VHF telrode. Remorkably high teniliv. liy ond entremely low nolse results. The $F 250$ olso lacor. poroter the new "Goped Beom" limiler with zero time constont grid circult for superior impulie nolie reiection. uniform limiting and uniform outpul af all tipnol ievels. The new tyric provides excellent selectivity with a brood bond pass for lowest signal disfortion. Three broodly coupled if stages provide the high gain necessory for full limiting of even the weakest ilgnol. Features the new - lecrronic bor funing indicator. Sensitivity is 0.95 micro. volf for 20 db quieling. Selectivitys 240 KC bondwidih. Diseriminotor peak to peok separation is .6 megocycles. Freavency range from 88 to 108 M.C. Drifi is $\pm 20$ KC
of $100 \%$ modulation. Frequency responses $\pm 0.75 \mathrm{db} 30$. 15.000 cps . Output level is 1.5 v for $100 \%$ modulotion. Rodlolion is within FCC meosurements. Migh impedonce output. AM Section-Sensitivitys 80 microvolti per meter. output. AM Section-Sensitivitys 80 microvalti per meter.
Selectivily: 10 KC bondwidih. Frequency ronge, 530.1640
KC. Distopllon: $10 \%$ hormonic. Frequency responsel +3 db $20 \cdot 5,000$ cycles. Hum leveli 45 db below $80 \%$ modulation. Tatal of 3 Controls: FM iuning. Function Selector loff, FM, FM-AFC. AM, Stereo) and AM tuning. 3 peor panal Outpuls: AM.FM Monoural and FM stereo, AM sterso, FM Mulfiplex, Esputcheon finish In brushed copper. Complote with o hondsome enclosure. Jubesi 2 ECCB5, 3.6AU6, 1.6A15, 1.6A18, 1.6BAS, Grystol Diode N87. Hos on switched $A C$ outlef. Power consumptions 40 walts. Siaer $13 \% \times 12 \frac{1}{4} \times 4 / \%^{\prime \prime}$. Shpg. wt., 15 Ibs. G.224WX .............. 12.00 Down ...................f 119.95

## F250 FM TUNER

with AFC off ond only $\pm 21 / 1$ KC with AFC on. Imoge re. icciton is 40 db . If rejection is 70 db . Antenno input: 300 ohms. Distartion lesi thon $0.1 \% 1 \mathrm{M}$ ot $30 \%$ modulation. and less thon $0.7 \% \mathrm{~lm}$ of $100 \%$ modulation. Frequency pesponse: $\pm 1 / 2 \mathrm{db} 20-20,000 \mathrm{cps}$. including stondord 75 miera-secand de-mphosis. Hum level. 60 db below $100 \%$ modulation. Front Panel Controts include Tuning and Function Seloctor (OFI. FM, FM-AFC. FM-Multiolex). 2 low impedonce oulputs. Power consumption: 30 wolts Tubes: 1.6CY5, 1.6BC5, 1.68k7B, 3.6AU6, 1.6A15, 1.6C4, 1.6BN6. I.EM84. Escutchoan finish is brushed copperi less coge. Sizei $5 \frac{1}{4} \times 4 \frac{1}{4} \times 13 \frac{1}{4}$. Shpg. wl. 25 lbs G.225WX 13.00 Down Net 129.95 Model TC50. Enclosure for F250 in brushed copper with block display ponel. Shog. wr. 7 lbe.
G.226W

Ma250. Ssereo Multiplez Adopter for F250. 3 lbs,
G.229
Nel 49.95

## ALLEGRO A-10 10 WATT AMPLIFIER

Thls unit embodies every imporiont odvance in o high lidelity omplifier of o remorkoble budget price. Amongat Its leatures are full range troble and basi controls, ally good ideally and hum ipecifications ore exception. olly sood, Ideolly ivited for itereo odaptiont ond is also Audio peclitications ore Outout bevel 10 moo fun funer. Audia pecificotions ore: Output level: 10 wolts loss than Outouts: 8 and 16 ohms, frequency Response +0.5 , 10 Outputf: 8 and 16 ohms; frequency Respanse: $\pm 0.5 \mathrm{db}$ $15.30,000 \mathrm{cps}$ of 2 wolfi and $\pm 1 \mathrm{db} 45.20 .000 \mathrm{cps}$ of 10 wotts. Humi minimum volume 80 db below 10 wotts
Input levels: oun. ond tuner .5 valts; Phona 4 v . of $/$

## SONATA FA-10 FM

An exciting 3-in.t chosils, combining on FM tuner, com. plete preampllfier and power ompllffor in one handsome compoct assembly. Easlly adaptable In ifereo. RF Specificationsi Sentifity, $2.5 \mu \mathrm{v}$ for 20 db quileting; Selectiv. ity, 200 ke bondwidth 6 db downs Distortions less thon $1 \%$ hormonic and $I \mathrm{M}$; Hum leveli $s 0 \mathrm{db}$ below $100 \%$ modulation. Moets FCC radiation spect. Audia Specifico. lions: Output leveli 10 watt of less thon $1 \%$ hormonic

KC will not overlood with input level below $180 \mu \mathrm{y}$; tome $1.5 \mu \mathrm{y}$ of 250 cycles. Rocord Equalizotion: RtAA, Tope Equalizotion: 7 Y/2 IPS. NARTB. Controls: Loudness, Boss, treblo and Functions Selectop (funer/Aum, RlAA.Phono, Tope heod). One convenionce $A C$ receplocle on chossis. Tubes: 2-12AX7, 2-E184, 1-E280. 5ize: $12 \cdot 1 / 16^{\prime \prime} \times 4^{\prime \prime}=$ $1 /{ }^{\prime \prime}$. Power consumption is 35 watts at 117 valis. 60 cycle AC. Complate with enclosure. Contral panel is fin. shed in copper, ond the enclosure in block. Shpg. wt. 11 ibs.
6.227

## RECEIVER AMPLIFIER

distortion, Speoker Outpulsi 8 and 16 ohmis Frequency Response: $\pm .5 \mathrm{db} 15.30,000$ cps. Controle: Function (Tope Head, Phono RIAA, FM, AUX), Laudness/ON-OFF, Tuning, Troble, Bass and Contour. Sizer $131 / 4 \times 11 ;$ $4-19 / 32^{\circ \prime}$. Block enclasure is finished with capper. For 117 valts, 60 eycles $A C$. Shpg. Wi., 18 ibs.
G.228wX
11.50 Dawn

Nel 114.95

## Bogen DELUXE STEREO AND MONAURAL



## SRB2O STEREO RECEIVER

Here is on all-in-one storeo insitument thol is yoors oheod in dotign ond porformance. It's o highly sensitivo FM-AM Stereo tuner, It's o versiotile storeo oudio conirol conter, If', o mognificent 20 woll (10 per chonnel) iteroo ampli: fier-oll in one compoct unit. With this romorkable now rocelver you ore onsured of suparb high fidellity por. formance combined with varsorility of operation riover before ossociotad with o single component. CONTROLS, Function Soloctors FM Tuning: AM Tuning: Soporoto Bors and Trable for ooch chonnol liock for simultonoous control of both) Volume for eoch chonnel (lock for simultoneous controll; Spporate On.Off Powor FM On-Off ond AFC, AM On. Off, Multiplex. SPECIFICATIONS: Output Power: 20 wotts ( 210 wolt chonnels). Antonnast Bulli. in FM ond

 Phono: -50 dbs Crystal Phono - 70 dbl Output impad. once: 4, 8, ond 16 ohms. Tubes: 16 plus 3 crrysol diodes, por moter-loop sonsitivitry. Audio Sonsitivily: Mag: 4 mv ,



 G.193W Model ENEI Encloure ond logs, $\mathrm{J}^{2}$ lbs. Not Baso


Page 22

## DB230A 60-WATT STEREO AMPLIFIER


#### Abstract

The ulfimote in a stereo amplifier for lop quality and design. With this system you con contral all types of stereo and monoural progrom sources, and feed them through the dual 30 -woft ompliffers. When you use it monourally you hove the combined 60 wotts avolloble, with a special switching orrangement for monoural records. Feofures include seporote bass, ireble ond volume controls for each chonnal ond soocial Speoker Phosing Switch to sliminate "hole-In-the-middle" effects. SPECIFICAIIONS: Power Outputs 30 watts ( 60 watts peok) eoch channel for stereo, 60 watis ( 120 watts peok) for monaural. Mermanic Disfortion: loss than $1 \%$ of rated output. Frequency Responses 20 to $20,000 \mathrm{cps} \pm 0.5 \mathrm{db}$. Hum and Noise: ibelow rated output) fundomental -85 db Inpuis: (total 10.5 channel 1, 5 channel 2). Mog. cartridge. erystal cortridge. tope, funer, ouxlliory. Outpuls: Channel 1 speoker, Chan: nel 2 specker. Channel 1 tope, Channel 2 tepe. Controlsi Input selector (6 pos.) Tape 78 , Old, RIMA, Rod, Aux: Mode Switchs Dual Volumes Dual Bazis Duat Trobles Loudness Soeaker Phosing; Phose: Phona Mix, Lo fitter, Hi Filler. Output impedancesi 4, 8 and 16 ohms. Di. mensionsi 15 " W W $5 \% \%^{\prime \prime} \mathrm{H}=13 \%^{\prime \prime} \mathrm{D}$. Shpo Wi ., 40 ibs  G-188W Madel CEG Enclosure and Legs, 5 ibs...Ne1 8.00




## DB212 24 WATT STEREO AMPLIFIER

With this "Sterea-Contral Center" you con precisely conhol oll stereo sources and foed them through the self contoined duol ompllfiers to your speaker systems. When you uit monoural progrom sources you hove 24 wofls of power avoiloble to the speoker system. You con also ferd one chonnel monourally through the twee er and midrange speakers, and the other monourolly through the low ronge speoker. You can thus control the presence and crossover frequencies by meons of the fons cantrols. "Speoker Phasing Switch" eliminates the "holo-in-the. middle" effect. Output Pawer: 24 wotts (iwo 12 wotl chonnels) peok power 48 watts. Harmonic Distortion: $0.5 \%$ of roled oulput. Frequency Response: 20 to $20,000 \mathrm{cps} \pm 1 \mathrm{db}$. Speaker Output: 4,8 , and 16 ohms. Tone Contrals: Boss $\pm 10 \mathrm{db}$ of 60 cycles Treble $\pm 10$ db of 10,000 cycles. Controlss 4 pesition selector switch tope, phano, rodio, oux.) Function switch (Manaural Chonnel 1, Channel 2, Channels 1 and 2, Stereophonic normal, inverted). Volumes Bass; Trebles Miffilter (flot 4 kc . Lo-filter (flat, 100 cos ), Soeaker (2 position) Power kcl. Lo-filter (flat, 100 (ps); Speoker (2 position). Powor
 D. Far $110.120 \mathrm{~V}, 60$ cycles AC. Shpg. wi. 20 ibs G. 185 WX Stereo Amplifier.... 11.99 Down....Net 119.95 G.186W Model BEG Enclosure and legs, 4 ib...Net 7.50

## BOGEN PR2 STEREO PREAMPLIFIER

A superb stereo preomplifier and control unit which will odd distinction to any music system. This high quolity unit has all the controls necessary to provide complete flexi. billiy of operation, thereby allowing you to enloy supevior parformonce in ony listening sifuation. Inputs are furnished for a varlety of stereo ar microphanic program sources-tuner, high and low lovel phono, iape hoed, microphone and multiplex adapter. Other feapures include a dual tape recorder output for stereo recording indi. vidual valume, boss and treble controls for eoch channol plus the convenience of position indicator lights on inpul plus the convenience of position indicator lights on input supplied to all inout lubes. SPECIFICATIONS: frequency

Response: $20-20,000 \mathrm{cps} \pm 1 \mathrm{db}$ Dlstortion: Better than $0.4 \%$ of roled output; Noise and Hum: Migh Level inputs - 65 db , Low level inputs - 55 db belaw rated output. Outputs: 2 V from cathode follawers: CONTROLS: 6 position input selector; Dual Volume, Boss and Treble con. Frolsz Made Selectar: Stereo reverse-Left Channel-Right Chonnel-Stereo normol-Monophonic left-Monophonic right, Ponel Swliches: (6) Power, Loudness, Phose, Hi-filfer, LoPonel Swliches: (6) Power, Loudness, Phose, Hi-filfer, Lo. TZ47, Monophonic phono. TUBES, Tolal $6,2-12 A \times 7$, 2. I247. 1.6C4. $1.6 \times 4$. Size: $15^{\prime \prime} \mathrm{W} \times 41^{\prime \prime} \mathrm{H} \times 8^{\prime \prime} \mathrm{D}$. Shpg. W.. 12 lbs. include buili-in power supply.

G-190WX Stereo Preomplifier....8.95 Down....Ne1 89.50

## DS225 50 WATT STEREO POWER AMPLIFIER

Here is a stereo bosic amplifier with superior performance characteristlis and all the power to satisfy most require. ments. Providing 25 walts of continuous power per channel -a hefly 50 wotts when operated monourally-il offers eatremely folihful reproduction over the entire listening range-with virtually no distortion. It is a perfect com. panion piece for the now Bogen PR2 preamplifier or STP 52 Tuner-Preamplifier, and will provide you with yeors of clean, frouble.free performonce and absolute reliability.
SPECIFICATIONS: Output: 50 wotis 25 per channell.

Peak Paweri 100 walfs. Responses $20-20,000 \mathrm{cps} \pm 1 \mathrm{db}$. Distortions Better than $0.5 \%$ at roted output. Nolse and Hums 85 db betow roted output. Senslitivitys 2 V input for rated output. Input impedonce: 100,000 ohms. Output Impedance, $4,8,16$ ohms. Tubes: (Tatal 9 ) 4.7355 , 2.5CU4, 2.12AX7, 1.12AU7. Power Consumptions 117 V . $A C 60 \mathrm{cps}, 230$ wolts of full output. Size: $7 \mathrm{~V}^{\prime \prime} \times 17 \mathrm{~V}^{\prime \prime}$ -
6. 192 . Shpg, wi., 21 lbs.

## DS265 130 WATT STEREO POWER AMPLIFIER

A superb high power amplifier with unique output circultry that permiss the handiling of tremendous Instanton. eous, undlitorted peok pulses of power-up to 260 watts. The two 65 wott chonnels provide odequate power and superb reproduction over the oudio ronge with no clipping or distortion-ideol for use with the now low efficiency, high complionce speokers. SPECIFICATIONS: Oulput: 130 wolts 165 per channell; Peak Power: 260 wathy Distortion: Better than $0.5 \%$ of rated output; Frequency Respanses 20
to $20,000 \mathrm{cps} \pm 1 \mathrm{db}$ Nolse and Hums 85 db below rated output; Sensilivity: 2 V for rated output; Input 1 m . pedence: 100,000 ohms; Output impedances $4,8,16$ ohmis Controls: Power (On-Off), Outpul power llmiting switch, Tubesi (Total of 4-7027A, 2.5CU4, 2.12AX7, 1.12AU7: Power Consumptions 117 V . AC, 60 cos.. 400 wolts of full outputs Sizer $71 / 6^{\prime \prime} \times 17 \mathrm{~K}^{\prime \prime} \times 612^{\prime \prime}$. Shpo. Wt.. 35 lbs
G.l̈awx Stereo Power Ampllfier .................Nei 149.50 Nef 149.50
14.95 Dawn

## DBI30A 35 WATT AMPLIFIER

This superb 35 waft high fidelity monoural amplifier combines professional performance with every significont feolure and refinement known to the monaural audio art. It also offers distinctive high forhion styling worthy of o place in the finest homes. This omplifier can be adapted
to Stereo without modiflcations. SPECIFICATIONS, to Stereo without modiflcations. SPECIFICATIONS,
Power Oupput: 35 woths tone bursp peok power: 100 Power Ouppup: 35 woths tone bursp peok power: 100
watts. Frequency Responses $15.30,000 \mathrm{cos} \pm 0.5 \mathrm{db}$. watts. Frequency Responses $15.30,000 \mathrm{cps} \pm 0.5 \mathrm{db}$. tion Distortion: $1.5 \%$ at 35 woths. Goin: Phono (lo tion Distortian: $1.5 \%$ at 35 watts, Goin: Phono (Lo
Mog) 113 dbs Phono (Hi Mog) 105 db : Aux Tope. Tuners Mog) 113 dbs Phono (Hi Mog) 105 db ; Aux Tope, Tuners 85 db . Kum and Noises Fundamental -85 dby Low level Inpuls -60 db ; High level Inpuls -80 db . In. puls: Low Mognetic, Migh Mognetic, Hi-Fi Crystol, Tuner, Tope, Auxiliary, Outputs: Speaker(s). Tope. Controlss Power (ON.OFF), Volume, Bass $+15 \ldots 0 \ldots-15 \mathrm{db}$.

Treble $+15 \ldots 0 \ldots-15 \mathrm{db}$. Contaur (Loudness Con. tour) $0,-5,-10,-20,-30 \mathrm{db}$. Selector (Inpuls) Phono, Rodio, Tope, Aux. Equalizers Solector US78, EU78, AES, RIAA, COL IP, NAB, POP. Domping foctors to.i... Infinity... -1.5 (continuouly vorioble). Lo fitteri flal, $50 \mathrm{cps}, 100 \mathrm{cps}$. High fllters flat, $8,000 \mathrm{cps}$, Fitteri flat, $50 \mathrm{cps}, 100 \mathrm{cps}$. High filteri flat, $8,000 \mathrm{cps}$, 4, 000 (pi. Speoker selector A, AB, B, Tope Monitor ION. OFF). Aux, adj.: Auxiliary channel level-sel contral. Hum odi.: odjustment for minimum hum. Output Impedonces: 16. 8, ohms. Tuner Tope, Aux-500K-110-1 20 Volts 60 cps AC. Tube Complement (total 9): iwo $12 A X 7$. two 6CG7, one 12AU7, two GAVSGA/GT, two SY3GT. Overoll dimensions $15^{\prime \prime} \mathrm{W} \times 4 \%_{4}^{\prime \prime} \mathrm{H} \times 12 \mathrm{~V}_{4}^{\prime \prime} \mathrm{D}$. Shpg. wf., 23 lbs.
G.194WX Monoural Amplifier..12.95 Down.. Net 129.50 G.194WX Monoural Amplifief..12.95 Down.. Net 129.50
G.186W Madel BEG Enclosure ond Legs, 4 lbs.. Nel 7.50

## HIGH FIDELITY COMPONENTS



## STPS2 STEREO TUNER - PREAMPLIFIER

 An exceptionolly fine stereo FM-AM iuner and stereo control center on one compoct chossis. In oddition te odvanced styling, it affers supero sensitivity and seleclivity. Cothode follower outputs permit you to separate it from your power omplifiers. Operation is the simplest yet. Front ponel confrois provide a wide range of versatility in operation. Separate boss and treble controls for eoch chonnel provide ideal contral of sound auality. Duol volumo controls permit easy one-hand bolancing for perfect stereo Ilstening. SPECIFICATIONS: Antennos: Buils.in FM and AM ontennoi. Frequency Responses FM: 20-20,000 cycles, $\pm 1 \mathrm{db}$. Noise and Hum: FM: -58 db ; $A M_{1}-18$ db; Phono: Mog.i -60 db , Crystals -70 db . 10 C on filoments of preamp. inpui). Output Impedonces: 4, 8 and 16 ohms. Tubes: 13 plus 3 crystal diodes, matehed pr., selenlum rectifier. RF Sensitivity: FM $4 \mathrm{\mu v}$ AM: $250 \mu \mathrm{y}$ per meter-loop sensifivity. Audio Sensiflyily: Mag: 4 mv ; Signal-10-Naise: 45 db . Crystal/Aux: Slenal-to-Noise: 60 db . Distortion: $F M: 1.5 \% ; A M: 3 \%$ : Phono (Mog)s less thon $0.5 \%$ of rated outpur, 2 volts. Controlss Function Selector, Dual volume. Dual Bass, Duol Treble, FM tuning. AM iuning, Off-On, FM.AFC, AM. Multiplen. Sizes $161 / s^{\prime \prime}$ wide. $121 /{ }^{\prime \prime}$ deep. $51 / 2^{\prime \prime}$ high. Shpg. wt., 22 lbs. G.190WX Siereo Tuner-Preomplifier....... 15.95 Down G. 195 W Madel ENBI Enclosure and legs 5 lbs Net 8.50

ST442 STEREO FM-AM TUNER
A prafessional quality instrument for FM, AM, or stereo FM.AM, with superb sensitivity and selectivity on both AM and FM tuning bands. Advanced FM circuilry includes Autamatic Frequency Contral-stations ore "locked in" Autamatic Volume Contral in bath FM and AM provides constant sound levels even with distant stotions, prevents overlooding under strong signol conditions. Fine funing is eosy with the visual FM.AM luning meter. Other feapures includer Cathode follower outpuls; builf-in FM and AM ontennoss provision for Multiplex odapter built-in. SPECIFICATIONS: Sensifivity: FM $1.5 \mu v-30 \mathrm{db}$ quivting at 75 ohm inpul, and $3.0 \mu \mathrm{v}-30 \mathrm{db}$ quieting of 300 ohms input. AM: loop Sensitivity- $100 \mu v /$ meter for $20 \mathrm{db} 5 / \mathrm{N}$. Frequency Response: FM: $20-18,000 \mathrm{cps}+.5 \mathrm{db}$. AM: $20.4,500 \mathrm{eps} . \pm 1.5 \mathrm{db}$. Controlsz Selector Switchstereo (FM-AM). FM, AM, Multiplex, AFC out; FM Tuning; AM Tuning: Power Switch. Tubes $1-6 A B 4,1.12 A T Z$, 2-6AUG, 2.6BA6, 1-6BE6, 1.12AU7, 1-EZ80, 2 premalched INS42 crysiol diodes. I.INSAI crystal diade. Power Re. quirements: 117 V .60 cps . $A C, 80$ wotts, .75 omp. Size:

G.197WX Stereo FM.AM Tuner 14.95 Down Net 149.50 G.186W Model BEG Enclosure ond legs 4 lbs...Nel 7.50


FM5 1 FM TUNER
This is on exceptionolly fine bosic tuner designed for use in high fidelify home sound systems. If con receive FM ond FM mulfiplex stereo progroms. If con olso be combined with other componants to form a superlative combined with other componstrs to form a superlative tereo system. Exiremo seminvity and selectivity, ossure cleor reception of even weok and distont stations. Auto motic Frequency Control locks in stotions of their op. fimum listening point. law noise front section consists of double tuned RF amplifier and two If stages. Ratio de tector plus limiter for dual limiter and discriminotor functions. "Mogic Eye" tuning assures easy pinpoinling of stations. Other feolures include o built.in line ontenno and provision for Multiplex adopier built-In. SPEC1FICA TIONS: Sensifivity: $1.25 \mu \mathrm{v}, 30 \mathrm{db}$ quieting of 75 ohm input, $2.5 \mu v, 30 \mathrm{db}$ quieling al 300 ohm input. Selec iviry: $180 \mathrm{kc}, 3 \mathrm{db}$. down. Frequency Response: 20. $18,000 \mathrm{cps} \pm 0.5 \mathrm{db}$. Audio Output: IV. high impe donce. Contrals: Selector; Power (ON-OFF), AFC Out Tuning. Outpuis: Normol (for omplifier, disc ar tape recorder) and multiplex. Power Requirements: 117 V $60 \mathrm{cps} A C, 50$ wolts, 0.5 omp. Tubes: 1.6 AB4, 1.12 AT7 ECC81, 4.6AU6, $1.6 \times 4$, 1-EM840, 2 motched INS42 Xiol diodes. Slee: $12^{\prime \prime} W=4 /^{\prime \prime} H=121^{\prime \prime} D$. Shpg. Wl., 14 G. 198 WX FM TUNER... . 11.50 Down........Ne1 115.00 G.199W Model AEG Enclosure ond legs 3 lbs. Net $\mathbf{6 . 0 0}$


Here is on oll-in-one stereo 12 watt omplifier, stereo nos. Frequency Response: $30-15,000$ eycles. $\pm 1 \mathrm{db}$. Noise control center and stereo FM.AM funer. A Bromplete music center, with all the power, oll the controls needed for a Irue component high fidelity system. Alt you need to complete your system are the speakers af your choke, plus a record ployer if destred. Ineluded in this budgetpriced receiver are built-in FM and AM antennas, dual volume controls for easy one hand boloncing of boih channels, moster bass ond reble controls, seporate AM ond FM funing, Automotic Frequency Confrol and provision for a multiplex odopter bulttin. Specifications: Oulput Power: 12 wolls ( (wo 6 woll channels) music
wovelorm rating. Antennos: Builf.In FM ond AM onten. ond Mums FM: 58 db ; AM: -48 db ; Phano: Mag - 45 do : Crystols 16 db . Oulpul impedances: 4,8 and 16 ohms. Tubes: 15 (plus 3 crustol diodes, incl. motched pr.). RF Sensitivity: FM, $4 \mathrm{v}_{\mathrm{i}} A M_{1} 250 \mu \mathrm{v}$ per moter-loop sensifivity. Audio Sensitivity Mogi mvi Signol-lo-Noise: is db . Crystal/Auxi $1 / 2 \quad \mathrm{~V} / \mathrm{S}^{2}$ Signol-to Noise: 60 db . Distortion: FM: $1.5 \%$ : AM: $3 \%$. Phono
(Mog): less than $1 \%$ of continuous power autput. Size (Mog): less than $1 \%$ of continuous power oulput. Size
$161 /{ }^{\prime \prime} W \times 121 /{ }^{\circ} \mathrm{W}^{2} \times 51 /{ }^{\prime \prime} \mathrm{H}$. Shpg
 G-200WX Slereo Receiver.....16.95 Down.....Ne1 169.50
G-201W Model ENC I Enclosure ond legs .. 5 lbs.... 8.50

## T661 AM-FM TUNER

For the oudiophile who puts himself o step oheod, this funer is among the finest. This is a rodiotion proof FM/ circuit foster-seing o highys and dual limiter, lownolse from section consists of iuned RF ond two If Stoges ond AFC temp. compansoted oscillator. AM section feoiures lOKC whistle filfer, AVC, ond cothode follower oufput. SPECIFICATIONS: Senslitivity: FM: $1.2 \mathrm{\mu v} 30 \mathrm{db}$ quieting, 75 ohm ontenno; $2.5 \mu v 30 \mathrm{db}$ quieting. 300 quieling, anfenno. AM: loop sensilivity $10 \mathrm{dv} /$ meter, 20 db . $\mathrm{s} / \mathrm{n}$. Frequency Respanse; $F M_{1} \pm 0.5 \mathrm{db}, 20.18,000$

ST662 STEREO
Advonced-dosigned for superb stereo or monoural fM ond AM reception. For listening to Siereo AM-FM, or for monourally utilizing the odded power ond speakers of your stereophonic equipment. Precise uning is assured with separole eyo-tuning indicaiors. Specificalions: Sensilivity: FM: $25 \mu \mathrm{~V}-30$ do quiering of 75 ohms inpul, ond $2.5 \mu v-30 \mathrm{db}$ quiefing of 300 ohm inpul. AM: Loop sensilivity $-100 \mu \mathrm{~V} /$ meter for $20 \mathrm{db} S / \mathrm{N}$. Frequency Response: FM, 20.18,000 cps $\pm .5 \mathrm{db}$ Contrals: Se. lector Switch-Power, (on-off). Siereo AM, FM, AFC oul,
Tuning. Outpuls: AM, FM, monourol, ond multiplox.

## RB115 FM/AM TUNER AMPLIFIER

This advance designed unit is o high fidelity gem. Its high fashian decor serves as o focal point in all types of contemparary and madern furnishings. This compactly designed instrument londs itself where there ore spoce limitolions. This oxciting receiver not only does priple duty os a superb AM.FM tuner, a powarful amplifier and a complet preomplifier, but it con olso function as the nueleus of a complete stereo high fidelity system. Simply plug in Bogen STAI Stereo odopler ond necessary second shonnel equipment fstereo record ployer, stereo tope, second om plifier and secand spegher syitem) and you ore oll sel up for slereo enioyment. Response: $20-20,000 \mathrm{cps} t 1 \mathrm{db}$. Pawer Output: 15 wotts of less than $2 \%$ distortion. Sensitivity: $\mathrm{FM}_{2} 3.5 \mu \mathrm{v}$ for 30 db quieting: $A M$ : $5 \mu \mathrm{v}$
cDs; AM: $-3 \mathrm{db}, 20.5,000 \mathrm{cps}$. Distartion: FM: $1.5 \%$ of $100 \%$ modulotion. Hum levelt FM, 60 db down from 1-volf oufpul: AM: 55 db down from 1 voli output. Con. trafs: Selector, Off, AM, FM, AFC Out, Tuning. Tubes: (10) plus 3 Xiol diodes: 1.6ABA, 1-12AU7. I-12AT7, SBE6, 1.6BA6, 4.6AU6, $1.6 \times 4$, 2 -motehed IN542 erystol diodes, 1 .INSAl erystol diodo. Size: $12^{\circ \prime} W=4 \%^{\circ} \mathrm{H} x$ 121/4 D. Shpg. wh., 16 lbs.
G.202WX AM.FM TUNER. 13.95 Down.... Net 139.50 G.190W Model AEG Enclosure ond less 3 lbs. Net 6.00

## AM-FM TUNER

Feofures: Lock in AFC on FM. AVC on both FM ond AM. Slide switch in reor of chossis permiss convenient use of luner in monourol systems. Tubess 1-6AB4, 2-12AT7, 3IN542 diodes, INS41 , iode $11 \mathrm{~V}^{\prime}$-marched 60

 Shpg. wt, 19 ibs
G.203WX Stereo AM.FM Tuner 18.95 Down Nef 189.50 G. 186 W Model BEG Enclosure wlth legs 4 lbs. Nei 7.50


## NEW 299

## COMPLETE STEREO AMPLIFIER

Amazing feotures moke this steree ampllifer with dual 20 wott shonnely ond dual preomplifiers on exeliting now HI.FI component. Includes a Jrd chonnel output for the ullimate in steree reprodutrion. features are: seporate Bass and Treble controls for each ehonnel; low lovel stereo cortridge inpuls for cortridges with exceptionolly low outpuls; Balance Control for bolancing bath channela; Moster Volume Control with loudness iwith for tonal bolonce: Phose Reversal Switch: corrects reversed phasing on Improp. erly made recardings; Master Function Salector switches to: stereo resords lo. Jovel or hi. level cortridges, stereo $\mathrm{FM} / \mathrm{AM}$ broodcosts, wie of tiereo cortridee for manoural records, for a monaval sourse through bath amplitiers. Unit is also used as o monoural electranic crossover. Contrala: func. tion selectory Bol. A, Bal B stereo Reverse Stereo Man. oural Records, Channel A Chonnel, Loudness, Loudness aural Records, Chanel A, Chonnel by loudness, Loudness. Volume switch, Seroth thleo ON.OFFs Rumble ON.OFF: Chonnel and Chonnel 8 mag. inpuls 1 and 2; Phase reversol switch ${ }_{3}$, 2 sels of Boss ond reble contrals for chonnels $A$ \& $\mathrm{B}_{3}$ salonce control; Inpul selector sw. in. inputis 2 lowiovel, 3 high level. ÓOlputs: Pope recorder Inputsi 2 low lovel, 3 high lovel. Oulputs: Pope recorder output, center channel output, and speaker impedance of 4. 8 , ond 16 chmi/for eoch channel. Preq. Response 20 to 30.000 cps: Power output per section 20 wott, 40 wotls peok; Hormonic Distortlon: $0.8 \%$ IM $0.3 \%$
 $12 \mathrm{~V}^{\prime \prime \prime}$ (occessory coses ovailoble in wood and steelh Siret $4 \%^{\prime \prime}=13^{\prime \prime} \times 12^{\prime \prime}$. Shpo. Wt., 35 lbs.
$6.135 \mathrm{wx}^{2}$
20.00 Down

Not 199.93

solute minimum. Precision balt beorines reduce friction ot orm moves laterolly acress record. Controlled toteral domping minimizes sensitivity of orm to externol vibro. tion. The orm is constructed of chrome anodized alumio num to reduce weight. Frequency response: 20 to 20.000 spi. Cross-talk better than -25 db . Outpuls 4 millivolts fracking pressures 3.5 grams. Supplied complete with orm rest. cobles, ond hardwore. Shpg. wi., 4 ibs.
6-140
8.95 Down

Net 89.50

New London-Scolt matehed stereophonic arm and cortridge
is the result of leom effort between M. M. Scolt engineers is the result of leom effort between M. M. Scott engineers and the loadon Records researkh stolf. A truly remork. oble stereo pickup with eztremoly low moving moss, cross. tolk, and distortion. Tip moss less than 1 me. reduces rec. ord wear to on absolute minimum and ossures occurate trocking even of high volume levels. . 5 mil stylus assures minimum record weor ond disfortion. Bolonced-coll con. ARE AVAILABLE ON LAFAYETTE'S EASY PAYMENT PLAN - SEE PAGE 302

## FIDELITY COMPONENTS Sčate



## 330D STEREO AM-FM TUNER

## this compleiely new design tearures famous wlde-band FM

 FM sections for recepllion af stereo AM and FM broodcasts. Feofures new sterea phase reverse cifcuitry, new illumi nated tuning and signal strength meter for FM and AM precision tuning and new built-in Ferri-loopstick for im. proved AM receptian. FM Section Sensitivity af 2 mieravalts for 20 db autaling 300 hm Inpeut wide bond clrcultry pre 20 db 150 if位 stages of full limiling: automatic goin contral makes anval adjusiment of senstivity unnecessarys low caplure atios max. oudio oufput 4 volis far 75 kc dev.; low im. edance out.i separate tape and multiplex outputs. AM Section: 1 micravalt sensitivity for usable audia autput; 3-position adjustable If BW: 10 ke whislle filters 4 valts oudio output for full modulatian. Extended freq. response compatible with FM quality. Controls include: FM funing: AM Iuning: Mode selector (Off, Mona, Stereo, Stereo rev. If band selector (FM. AM wide, AM normal, AM distant) Meter (AM, FM). Separote AM and FM level contrals. Separate autput jacks for stereo and tope. For 105.125 V $50 / 60$ cps. Size: $4 \% \times 15 \times 121 / \mathrm{N}^{\mathrm{N}}$. Shpg. wf., 17 lbs.$\mathrm{G}-143 \mathrm{wx}$


## 320 AM-FM TUNER

## This brand mew fM tuner foolures comple provisions

 far adding multiplex adopler for reception of stereo multi. plex broodcosts. New copper-clad oluminum chasis results In highest sensitivity with max. fidelity. Utillires the latest odvances in fM circuitry, wide-bond design, wide-range low-distortion defector, efc. Slide-rule tuning dial includes logsing scole. Precision-ray tuning indicotor alsa gives relative signal strength. FM Section: 3 microvalt sensitivity an 300 ahm antenna for 20 db quieting; 150 kc if passband, 2 megacyele delector BW ; low caplure radio: outomalic gain contral; 2 slages of full limiting meets oll FCC radiation specs; equlpped for multiplex operation. AM Sectians seporate RF amp. stage for max. selectivity and sensitivity: new circuitry for reception of hi.fi AM broadcasts; 10 ke whistle filter. Contrals: Level; tuning. selector (Off.FM. AM narmal, AM widel; mono-multiplex steroa sw. Outpuiss Channal A high and low (tape); Chan. nel B high and low (lape); audio output ta multiplex adopter: multiplox out. Inpuls: Channol $A$ and 8 from mulliplex odopter. Less case. Sizer $4 \% \times 15 \times 12 \% \mathrm{~m}$. Shpe. wt., 14 lbsG-144WX
14.00 Down

Net 139.95

| SCOTT |  |  | CASES | (Av. | Shpg. | W+., | $11 / 2 \mathrm{lbs}$. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| STOCX No. | $\begin{aligned} & \text { scoit } \\ & \text { NO. } \end{aligned}$ | TYPE | COMPONENT NO. | PRICE | STOCK NO. | $5 \mathrm{SOTt}$ | TYPE | COMPONENT NO. | PRICE |
| $\begin{aligned} & \text { G-147W } \\ & \text { G-149W } \\ & G-150 w \\ & G .151 w \\ & G .148 w \\ & G .152 W \end{aligned}$ | $\begin{aligned} & \mathrm{C} \\ & \mathrm{cW} \\ & \mathrm{CWW} \\ & \mathrm{CW} \\ & \hline \end{aligned}$ | STEEL MAH. WAL. BIONDE | $\begin{aligned} & 990,130, \\ & 222,131, \\ & 299,320 \\ & 3300 \end{aligned}$ | 9.9519.9519.9519.959.9519.95 | $\begin{aligned} & \text { G.153W } \\ & \text { G.154w } \\ & \text { G-155w } \\ & \text { G-156w } \\ & \text { G.157w } \\ & \text { G. } 158 \mathrm{~W} \end{aligned}$ | DWW DWB | $\begin{aligned} & \text { WAL } \\ & \text { BIONDE } \\ & \hline \end{aligned}$ | $310 \mathrm{C}, 3110$ $310 \mathrm{C}, 3110$ | $\begin{array}{r} 19.95 \\ 19.95 \\ 4.95 \\ 11.95 \\ 11.95 \\ 11.95 \end{array}$ |
|  |  |  |  |  |  |  |  | STEREO.DAPTOR 135 |  |
|  | $\frac{\text { cwi }}{\text { D }}$ | BTEEL |  |  |  |  |  |  |  |
|  | DW | MAH. | $310 \mathrm{C}, 3110$ |  |  |  |  |  |  |

## 

## 311D BASIC FM TUNER

This moderate priced FM luner brings the optimum in FM reception within the ronge of everyone budjel. Now liuminoted funing and signol strength meters new procultry results in sensitivity af 2 micravalis for 20 db quieting af 300 ahm autput. Has 150 ke pass-band mepacycle defector 8 W, 2 stages af full limiting and 80 db reiection of spurlous response from crass modulation by strane local signals. Automatie ain canteol. low impedance output Outputs Channel ain canirol. Low (tapa). Channel B Migh and Low (tape). Multiplex oupput (tape): Channel B Migh and Low (tape); Multiplex oufput $50 / 60$ cos. Less case Size $133^{\circ} 44^{\prime \prime}$ Shpg wi 15 Ibs.

## 310-C FM BROADCAST MONITOR TUNER (NOT ILLUSTRATED)

Represents the highest standards of performonce for FM reception. Now professional instrument luning cantrols with lighted lucile dial. DYNAURAL interstotion nolse suppressor is provided. Sensitivity is 1.5 micro-volts on 300 ohm input for 20 do quiefing. Caplure ration of $21 / 1$ db and 85 db reiection of spurious cross-madulation responses. Full 150 he If passbond and 2 megacycle limits and detector; effectively 3 slages of fulf limiting. Meets new FCC Radiation requirements. Automotic gain control is provided. Max. audio oulput 4 V . for 75 ke deviation. Low impedance output. Conirols: Power on off; Level; Interstotion noise suppressor; Locol.Distont iw; FM tuning. Outputs: Chonnel A High and Low (tape); Channel 8 Migh and Low (lope); Multiplex out; switched AC oullef. Less Cose. Size $13 \times 4 \% \times 9 \% 4^{\prime \prime}$. Shpg. wh.. 18 lbs.
$\boldsymbol{G}-146 \mathrm{WX}$

## MCINTOSH LABORATORY HI-FI COMPONENTS

##  <br> MC-20



## C20 STEREO COMPENSATOR

The greatest listening pleasure in stereo or monophonic eproduction is assured as a result of over o year of careful and diligent research. Full stereo flezibility proided plus built. In protection for your investment in mono honic records. Mode Selector has: 6 positions inciuding Ripht channel on right speaker anly, Left channel on both pight chonnol and Rlght chonnal on both speakers. Internally decauples a stereo phono cartridge to offer best quality occuples a from monophonic records. Suparate treble and bass ione controls. Hos separale chonnel bock panel antrols to bolance the freauency response of the system independent of front penel controls. Equalizotions separate independent of 6 position switches, including NAB tope and and for any low level flot source Piovides Fletcher and foi for any fiter Munsen compansakon, can ske) high freauency eutoff to and 2-posivion (GKC and $180^{\circ}$ phose reversal control uppress hiss and noise. 180 bhase for unequal sourco balances 40 do each channel bolance for unequal source moteriol. Tape: fram panel jocks, push buchon sw. con rolled, to permit the odditlon of portoble recorder. Tope Monitar: Permits instontoneous monitoring. input sensi tivity: High level - 0.25 V ; phono - low 2.5 mv . high 12.5 mv ; lope head - low 1.25 mv , high 6.25 mv ; tope monitor - $0.25 V$. Freq. Aespanser $\pm 0.5$ do 20 ro 20 ke Distortion less thon $0.2 \%$ af rated oulput. Hum and naise inoudible. Outputs: Moin - 2.5 V with rated input; tope 0.25 V with roted inpul. Power requirements: 117 VAC ; 35 wolts. A.C. Aux. outlets: 1 unswitched and 3 switched less cose. Size: $141 / 2 \times 12 \times 4 \mathrm{~km}$. Shpg. wt., 19 lbs. G-170WX
22.50 Dawn

Net 225.00
Model 155. Cabinet for C20 in mahogany or wolnut. Shpg. wh.. 5 lbs. Specify finish. G. 174 w

## MR-55A AM-FM TUNER

Fomous potented Meintosh output cuts moximum inter modulation distartion to a low of $1 / 2 \%$ and harmonic distortion to less than $1 / 2 \%$ throughout the oudible ange oven at full power, giving superlative amplification performonce for $\mathrm{Hi} \cdot \mathrm{Fi}$. lis extreme sensitivity, 0.5 vol input, onobles it to be used directly with any FM.AM unar, if desired, or with cerstal or ceromic phono cortridge. This input has a gain contral. This unit gives an extremely flot response, $\pm .1 \mathrm{db}$ between $15.50,000 \mathrm{cps}$ Hum and noise are - 90 db and damping foctar is 12 The amplifier hos outputs of 4,8,16 and 600 ohms (bal anced) fubes are 2.12AX7, 12AU7, 12BM7, 2.1614 SUAGA (Recififer). Chrome and block finish. Dimensions $13 \%^{\prime \prime} \times 8^{\prime \prime}$ 天 $8^{\prime \prime}$. Power consumplion 155 walts, $117 / 125$ v $50 / 60$ eycles AC. Shps. wt., 34 lbs
G.l7)wx

## MC-60 60 WATT AMPLIFIER

> This omplifier is desioned for the ultimale in quolity ond performonee. With its patentod output circuit ond its 60 wotts of power at less than $3 \%$ distortion from 20 . $20,000 \mathrm{cps}$., it guarontees complete obsence of discordant ones and provides exauisite realism ond purity of tone ot low as well os of high volume levels. Hos two inputs one of low level sensitivity of .5 volts, with volume control for use with FM.AM funer or similar low leval devie ond one high level 2.5v. input, for use with preamplifier. Frequency response is $\pm .1$ do from $20-30,000$ eps, domp. ing factor is 15 hum ond noise level - 90 db . It hos oul puts of 4, ${ }^{8} 16$ ond 600 ohms (bolonced). Tubes are 2.12AX7, 12AU7, 128H7, 2.6650, 2.5UAGA |Rectifiers Chrome ond block finish. Power consumption 280 wolls, $117 / 125$ volts, $50 / 60 \mathrm{cps}$. AC. Dimensions $1414^{\prime \prime} \times 10^{\prime \prime} \times$ $8^{\prime \prime}$. Shpg. W1., 48 lbs
> G. 172 WX
> 19.85 Down .............. Not 198.50

## ${ }^{\text {THL }}$ 力 FISHER ．．STEREOPHONIC HIGH



## NEWI MODEL 101－R FM－AM STEREOPHONIC TUNER

Here on one chositi is a true stereo FM．AM iuner of the highass quality．${ }^{4}$ types of operation：FM．AM stereo，FM
multiplex stereo（with multiplez odapter）FM std，and multiplex itereo（with multiploz odapter）．FM 3id，and for easy，accurate FM and AM tuning．Complete versatil－ lir with 4 from panel plus 2 output lovel controls， 7 low Impedance outpulis Including jacki for monoural or itereo recording． 80 db reparation between channols． 6 antenna terminals for any reception conditions．
FM Sections Now fomous＂Gold Casicode＂RF stoge－on－ treme censilivity and low nolse．Triode mlaer and dual limiter stages． 4 IF sloge with wide band detector．AGC asiures constont audio oluput within 1 db for antenna input of 1.5 to 500,000 uv．Automatic Interstation nolise muting．Sensitivity -0.75 uv for 20 db quiteting．Fise． muting．Sensitivity $-0.75 \mathrm{olv}^{\mathrm{LV}}$ for 20 db quieting．Fre．
 db for 100 uv inpuf．AM Sectioni funed if ilage，tom．
peroture compensated converter stoge for itobility． 2 if peroture compansated convertor stage for stability． 2 IF
amplifiers．Bondwidth ielectoble．Features delored AGC amplifiers．Bondwidth relectable．Features delored AGC
and tharp 10 KC filter．Sonsitivity－ $3.5 \mu$ for 0.5 out．

 For $105.125 \mathrm{z}, 50 / 60$ ．Slise $15 \%$＝ 13 ＝ $4-13 / 16^{\prime \prime}$ Shpg．Wt． 20 lbs．
G－100WX
23.00 Dawn ．．．．．．．．．．．．．．．．Net 229.50 Model 10U．Custom cabinets in mahogany，walnut o blonde．S1ze $153 / 4$ z 12 K \＃ $0^{\prime \prime}$ ．Shpg．w1．，© 1 lbr ． G．10iw（Specify finish）．．．．．．．．5．00 Down ．．．．．．．．Noi 24.95


## NEWI MODEL 400－CA STEREOPHONIC MASTER AUDIO CONTROL PREAMP

A daluze unit with unlimited flexiblify for any stereo or monophonic applicolion．Includes Basi ond Treble controls to provide independent regulation of each chonnel，or panged conirol of both channels．Tone controls can be wied of o crossover network． 16 separate inputs of 8 pairs for ilereo．Inpul pairs，（Low Lavel）EUR－LP．RIAA I and R1AA 2，Tapes Mic．Monitor，Tuner；AUXI and 2， 4 out． puis（in pairs）i main ond recorder．It frant panal contrals： 4 push－bution Input Selectar， 6 －position Equalization 5 ． lector．Output Selector（Stereo Rev，Sterec Sid．Channel $A+B$ ，Channel $A$ ．Channel $\mathrm{B}+\mathrm{A}$ ，Channol Bj；Mastor Vol．／AC on－off，Channol Balonce，Loudness，Rumble FII． ter，Separate Basi ond Treble for each channel． 4 Input lovel odjustment．Frea．responser uniform $20 \quad 25.000$ cycles．Distortion less than $0.15 \%$ for 2 volts output．Hum ond noisen inoudible．Channel separation better than 60 db ．Gainsi 60 db for tapehead， 55 db for mog．phono， 18 db for tuner．Self contalned power supply．Less cablnet．
 10 lbs.
G．102wX ．．．．．．．．．．．．．．．．．．17．45 Down ．．．．．．．．．．．．．．．．．．．Net 174.50 Madel 10U．Custom cabineti in mahogany，walnut，or blonde．Stre $15 \frac{1}{4} \times 12 \% \times 6^{\prime \prime}$ ．Shog．wi．， 6 lbs. O．101 W（Speciy fintish）．．．．．．5．00 Dawn ．．．．．Net 24.95

## RK－1 STEREO REMOTE CONTROL

Designed for use with the 400 ．CA to permit a listener to bolance the level in a stereo syitem right from his seat． Fits in the polm of your hand．Can be used with oll＂400＂ models．Complet with 30 －foot coble．Shpg．wi．， $11 / 2$ lbs． 0－124（Net lllustrated）．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．Net 17.95

## NEW PR－66 SELF－POWERED STEREO PREAMP－EQUALIZER

Typical Fishar premium qualliy throughout．Designed for use with low lovel magnetic ttereo phono cortridge．RIAA Equalization provided．Modificotlon permits vise with Eqtereo topo deck of as mike proamp．Con be uied as two stereo tape deck or as mike preamp．Con be used as two
channel monaural preamps． 2 tow Impedance audio outpul channel monaural preamps． 2 low Impedance audio outpul
slages．Gaini 40 db af 1000 cps ．Frea．responiel $20.70,000$ ， $2 l a g e s . ~ G a i n i ~$
$\pm 2 \mathrm{db}$ ．Distartloni $0.2 \%$ for 2 ran out．Hum and Nolies ${ }_{-68} \mathrm{db}$ at 10 mv input？Crostalk，-60 db between chan－ nels．For 105.125 y $50 / 60 \mathrm{cps}$ ．Size， 8 \＆ $5 \%$ ． $1 \% \%^{\prime \prime}$ ． nels．For 105.12
Shpg．wt．， 4 lbs．
Shpg．
PRG．
．．．．5．00 Down
Net 29.95 Model PRG．Monoural hi－fi preamp for phona and tope． Self powered．Shpg．w1．， $11 / 2 \mathrm{lbs}$
G． 105
0.105

Ne1 12.95

## MODEL 100－1 INTEGRATED STEREO FM－AM

 IUNER WITH MASTER AUDIO CONTROL CENTER
## Twa fully Independent preamplifter channels have been

 coupled wlth Independent FM and AM sections．FM Puner section features cascade RF stage．Provisian has been made for the Fisher MPX－20 Multiplen Adoptor．Sonsi－ tivity，full limiting with only 1 mv ilgnal．Wide band rotio detactor AVC plus 3 IF stages．Automatic nolse sup． pression and Microray tuning．AM section contains tuned $\mathrm{RF}_{4} 10 \mathrm{kc}$ cut－off Hilter，High gain IF，AVC and Misroray tuning．Stereo preamplifler sectlon feafures ninetoen con－ trols for every itereo appllcatlon．Response 20 to 20,000 cps $\pm 1 \mathrm{db}$ ．Seven Inputs for all typos of equipment．Pro－ vision for 3rd center ehannel output．Siren $15 \%^{\prime \prime}$ W G．110wx …．．．．．．．．24．95 Down．．．．．．．．．．．．．．Nol 249.30 Model MC．I Vinyl covered metal cage for 100－r． 0.113 wNet 15.95

## MODEL SA． 10050 WATT STEREO AMPLIFIER

Two separate channel：deliver up to 25 wotts of music power for each section．Response 20 to 20,000 eps $+0 \mathrm{db}-1 / 2 \mathrm{db}$ ．Sensifivity： 1.0 volt．Marmonic Distartion $0.1 \%$ at 20 waths of music power．Im Distortion 0.3 at third channel oupput． 105.120 volts $A C$ of 60 cycles．


## NEWI MODEL X－101A STEREO MASTER CONTROL \＆DUAL 20－WATT AMPLIFIERS

## All on one chassls are a 2－channal preamp－equalizer with

 complate audio controls，and a 2－chonnel 20 watt power complife cudio controls，The X－101A affortlessly handles peoks up to 75 watls．Offers completo versatillity，and clean，undistorted power．Separote Bass and Trable conirol provide either ganged or independent channel aperation． 12 inputs or 6 poirs for steroo． 3 record－monitor lacks． 8 cantrols plus siz chossis odlustments．Ingut sofector（78，IF，RIAA－1，RIAA． 2，Tape，Tuner，Aun－1，Aun－2），Output Solector（Rev．， sid．，Chonnel A＋B，channel B＋Ali Rumble Filteri Vol．／AC Power，Channol Balance，Loudness Contour，Sepa－ rate Bass ond Treble for each channal or for both channals simultaneously． 4 input level conipols for Initiat level ief． tings on both chanmels（2 low－level， 2 AUX－1．）Speater connections：8， 8 ，and 16.0 hm on each channel．Frea． response： 20 to 20,000 eycles．Distortioni $0.7 \%$ of rated output．Hum and noises inoudible． 50 db chennel separa－ llon．Senslifity， 3 millivalts for phona， 2 millivolls for tope， 0.2 volts for high level to oblain rated output． Power rating， 40 walfs far stereo． 11 fubes．Less cablnet． For $105.125 \mathrm{~V}, 50 / 60 \mathrm{cps}$ ．Size $15 \%=4 \frac{1}{4}=13^{\prime \prime}$ ．Shpg． wf． 30 tbs.c .108 wx
Model K …．．．．．．．．．．．．20．00 Down ．．．．．．．．．．．．．．．．．．Net 199.50 Model 10U．Cuspom cablinets in mahogany，walnut and O．10iw（Specify finlish）．．．．．．．5．00 Down ．．．．．．．．Net 24.95
MODEL 202－T INTEGRATED FM－AM STEREO TUNER AND MASTER AUDIO CONTROL CENTER Fisher＇s fintet stereo luner and preamplifier combination． The separate funer sections each emplay Microray tuning indicators and may be operated Independently for alther monophonic ar stereophonic reception．Provision has been mode in the FM iectlon for the MPX－20 Multiplen adaptar． FM sensilivity effective llmifing below 1 micravalt．Sis－
nal－to．Nolse Rotio， 20 db for 0.8 mv ．Hormonic Disfor－ nal－to．Nolse Rotios 20 db for 0.8 mv ．Kormonic Distor tlone less than $0.5 \%$ of full modulation．FM circuitry includes four If stages with extro wide－band pass，a dual dynomic limiter，two grid．lock limiters ond a wide band ratlo defactor．AM section fealures rotatable ferrito loop，funed RF stage，twa IF stages plus 3 IF Irans－ formers，delayed AVC and 10 ke sharp cut－off fliter． Master Audlo Contral Center has frequency response of 20 to $20.000 \mathrm{cps} \pm 1 / 2 \mathrm{db}$ ．Hum and Noise 55 db below rated oufput of 2 valfs． 28 controls for every sterisa preamplitior function．Tolal of 20 tubes plus 4 germanium diodes 105.120 volts 50.00 cycles．Sire： $4 \%{ }^{\prime \prime}$ ＊ $15 \%^{\prime 2}$ z $12 \% "$ ．Shpg．wt．． 25 lbs．
©．106WX 34．95 Down
Model TA． 6 vinyl－covered metal cabinet for 202．T
0．103W．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．it 17.95
MODEL 100 30－WATT AMPLIFIER New from the Fisher lob．This amplifiep is conservatively rated and superiorly constructed for many yeori of trauble free service．Rated power－ 30 walts cantinuous， 70 walts an peck，up to 30 miec in duration wlthaut clipping， ringing or raggedness．Frequency kespanse－ 20 to 20，000 sps Within 0.5 db at 30 watis．IM Distortion－less than $1 \%$ of 30 watts．，less than $0.5 \%$ at 10 watis．Hum and Naise－ 88 db below 30 w output．Only 1 volt requifed to obialn full 30 watt output．Specker connections－4．8 and 16 ahms．With Z．Matic variable damping control Input level odjustment，phose Inverter balonce adjustment and speaker Impedance matching switch．For 105.125 $50 / 60$ eps．Auxiliory AC Recoptacle．Slze： $151 / 2=7$ 41／2＂．Shpg．wi．， 23 lbs
0．112WX ……．．．．．．．12．00 Down ．．．．．．．．．．．．．．．．．Net 119.50
NEW MPX－IO MULTIPLEX ADAPTOR
Designed for the recopllon of stereo broadcast using the
Crosby Mulliplex System．Pravides complete channel bal． ance．Consists of iwo multiplek lnputs and two aunillary inputs．Two outpuls．Input sensilivity： 30 my RMS for full Ilmiting．Oulpul voltaget 1.6 volts RMS．Signat－to－noise ratio better than 70 db ．Controls Channel Separotion， Audlo Level，Selector（Off，MPX standby，Storeo MPX，
MPX chan．Main Chan．）．Five fubes，Sizes $131 / 4 \equiv 8$ $34 /{ }^{\prime \prime}$ ．Shpg．Wi．， 8 lbs．Less cabinet．
G－121 ． 12 ．．．．．．．．．．．．．．．．．8．00 Dawn ．．．．．．．．．．．．．．．．．．．．．Net 79.50 Model 3C．Cabin⿻l丨 far MPX． 10 in mohogany，walnut or blonde．Sire： $121 / 4 \times 71 / 6 \times 31 / 4^{\prime \prime}$ ．Shpg．wt．， 4 lbs． 6． 111 iw（Specify finish）

Net 12.95

# FIDELITY COMPONENTS ${ }^{\text {THe }}$ 办-FISHER 




NEW! MODEL FM-100 FM TUNER
features the Fisher Microgap Cascode RF slage, a duo triode miner-oscillator, Four wideband If stoget, and wide bond ratio delector. New muting control ellminotes side bond response ond inferstotion noise. The floftopped if limiter with 2 germonlum diades ond 2 short lime-constont erid-leot llmiters. Inpult one for aoch chonnel, high level grid-leak limiters. Inpulti one for each chonnel, high.lovel input con be connacted to either one. Oulputsi 2 in eoch chonnel, plus one for a Multiplex Adapler fomp or re corder), Four ontenno terminals. Sensitivity: 0.8 microvoll for 20 db quieting with 300 -ohm ontenno. Signal-to-nolite rotio 60 db for 100 microvoll input. Frequency responst uniform from 20 to 20,000 cps. Copture rotio only 2.3 db . Hormonic distortion less thon $0.5 \%$ of fult modulation. If bandwidih - 6 db down of 220KC. Controlis Tuning. Selec tion (AC-OFF, FM, MPX stereo, maln, MPX channel), Mul. ing Conirol, and Multiples Seporation. Direet plug-in focitities for the MPX. 20 Multiplen Adopter. Ton fubes plus 4 germanium diodes. Sizes $151 / \times 13 \times 4 \frac{1}{4} \%$. Shps.w., 18 lbs . Less Cobinel.
G.120Wx..........16.00 Down..................Net 159.50 MC. 1 Metal cobinet in simuloted leother for the FM-100. Sire1 $15 \% \times 11 \% \times 5 \% "$ Shps. wl.. 9 lbs.
G-109
MPX-20 PLUG-IN MULTIPLEX ADAPTER. Used with fM.100, will reproduce the new Crosby multiplea stereo broodcost. High input sensitivity. Output voltoge sufficlent to drive ony type of contral amplifier. Harmonic distortion less than $0.5 \%$ at maximum modulotion. Signat-to-noise rotio belter thon 70 db . Slzes $4 \% \times 31 / 4 \times 3 \% \mathrm{~m}$. Shpg, wh.. 2 lbs.
G .122
5.00 Down

Net 49.50

NEW! MODEL SA-300 60-WATT STEREO AMPLIFIER

Consisting of two, fully identical basic amplifiers, this new loborotory standard stereo omplifier will moich any existing speokers, both low efficiency and high. Offers laboratory-standard quatity of moderate catt. Provides the domping factor required by any speoker ayslem. Exclusive TWO inpuls for coch channel, one for standard respanse. and one with controlled frequency respanse to insupe optimum performance when viling electrostatic speakers, and reduce subsonic ironsionls. Uniform frequency response within $1 / 2 \mathrm{db}$ from 20 to 20.000 cps . Controlled frequency within $/ 2 \mathrm{db}$ from 201020.00 cps and -3 db at 20,000 cycles. cesponse is -5 db of 20 cps and -3 db of 20,000 cycles Hum and noise more than 100 db below rofed aulput. Har monic distortion is tesi than $0.1 \%$ of full rated output Inter-modulation distortion is less than $0.35 \%$ by SMPTE Americon Stondords. Only 0.8 volt input is required of 000 cycle: for rated ouput in each chonnel. Input mpedonce is opproximately 100.000 ohms. Conservatively rated af 60 watts (over 30 wotts per channel). 160 wolts on allinstantaneous peoks up to 30 milliseconds time duro ion. Speoker cannections, $4-8$-and 16 -ohm ferminols for motching speaker impedances, plus terminals for odding resistor to match the recommended speaker domping foctor Contrals consill of Input Level. AC Balance, DC Bolonce and Hum Bolance controls in eoch channel; Balance Adiust switch and 8ios Conirol. 10 tubes. Operates on 105.120 alts. 50.60 cycles AC. Size: $16 \% \times 71 / 4 \times 61 \%^{\prime \prime}$. Shpg Wi.
5.123 wx

Net 169.50
NEW MODEL N- 2200 "CLASSIC" 50 WATT STEREO PREAMP-AMPLIFIER


New complete stereophonic amplifier consists of stereo preomp, equalizer and power amplifier. Offers the finest quallity in sound reproduction of the lowest possible cost. Versotile with precision ond odvoneed design features, the N. 2200 complet omplifier reproduces folthfully from ony source of stereo or monaphonic material. Rigid quatity control af all stoges of production assures compliance with all listed specilfications, Modern, cleon, styling blends well with any room decor. Front panel controls are the following: Selector (Tape. Mog. Phono, Ceramic Phono, Crystol Phono, Auk., Tunar); Equalizotion (LP, RIAA, Pop, Topels Mode (Monoural, Sterea A.B, Reverse B-A); individual Loudness for woch channels individual Boss and Treble for eoch chonnels Tope Monitor switch, Rumble Filter switch, Speoter Phosing switch; Power on-off swlich; Stereo-Monoural with illuminated indicator lights. Inpulsi 2 och; tope head, mognetic phono, tuner, tope out, ceramic oux., lope monitor in, high level crystol. Specificationt-Outputs 50 wotts, 25 watis per chonnel, 100 walts peok. Frequency Responses $\neq 2 \mathrm{db} 20.20 .000$ cps. Distortians IM distartion approximately $1 \%$ af full oulput. Input Impedances: 0.5 meg for tuner, erystal and ovziliorys 100 K for magnetic or ceramic; 110 K for pope heod; 0.5 meg. for rape monitor in; high impedonce for record out. Oufpui Impedance: 8,16 , and 32 ohms stereof 4,8 , and 16 ohms monaural. Tubes ten including rectifler. For $117 \mathrm{~V} ., 60$ eycles, o.e. Coblnet is finished in block with brushed bross escutchean. Adoptoble for cobinot mounting. Size: $16 \% \times 4 \%$ a $10 \% \mathrm{~m}$. Shpo. W1., 28 lbs. G.S40WX ................. 10.95 Dewn 109.50

## NEW! LEAK "POINT ONE" STEREOPHONIC PREAMPLIFIER

This new stereo preamplifier and equalizer unit from leak feolures versotile controls to swit all stereophonic and monoural needs. Designed to drive componion leak "Sterco" power omplifiers or similor units. Hos 6 input pairs-Tape heod, stereo and monaurol, Plek. up stereo and monoupal. RIAA equolizeds Tuner, stereo and monoural, flap sharocteristics Microphone. steleo and monaural, flat chapacteristic; Extra for additional stereo and monoural input, flat characteristic. All conitrals on front ponel: (dual ganged). Input Selector switch, Function switch-stereo, steree put Serse, left input to both chonnels, right input to both channals, sterea pistup converted to monourot; Bass$\pm 16 \mathrm{db}$ of 30 eDs ; Treble $\pm 16 \mathrm{db}$ of 15.000 cps Volume Contral with an/aff switch contrals the "Stereo. power ampliflers. Balance Control; Rumble Filter. With outlefs for stereo or monoural recarding. Frea. Response-20 to 20,000 flat. Tatal Harmanis Distor-tion-lass than $0.01 \%$ for 125 mv out, less than $0.1 \%$ for 1.25 out. Sensitivity- 4.5 mv flopel. 5.5 mv (pickup), 50 mv (tuner and extra), 3 mv (mike). Size $101 / 2 \times 31 / 5^{\prime \prime}$ Ponel, $111 / 2 \times 4.7 / 16^{\prime \prime}$
cutout size, $10 \frac{1}{2} \times 3 \%$ ". Shpg. wf. 5 lbs.

G-525WX
10.95 Down …...... Nel 109.50

## Pilot STEREOPHONIC \& MONAURAL



## 216A STEREO PREAMP AND AUDIO CONTROL CENTER

An exceptionolly versatile professional type preamplifier and oudio contral center for high quolity siereo systems. Two VU meters to indicate tape recording output level or tisuoliy balance bolh channels. Meser Function swith to select meter operation. 14 inpufs -6 high level for FM.AM cluding mulviplox odopier, iope recorder, fow level including iwa eoch for record chonger, furniable, tope heod and microphone. Automatic shutoff enables record changer to turn off complele system aiter last record. 4 independent feadback.rype ione controls. Electronic Crossovar for monophonic bi-amplifler use. Mono position on Mode switch outomalically cancels out undesired verticol stereo cortridge response when playing monophonic records. A outputs two oudio. Iwo lope recorder with tope output unaffected by volume or tone controls. Separate tope output gain controls for each chonnel for tope recording. low-level oudio tube filoments DC powered. Feedbock equolizers. Frequency response $\pm 1 \mathrm{db}$ from 20 to 20,000 cycles. Audio output, 1 voll. Tope output, 0.1 .3 volts odiustoble for zero VU. Hormonic distortion, $0.2 \% \quad(2 / 10$ of $1 \%$ ) at moximum sensilivity. Hum and Noise, 80 db below 1 voll. Equolization: RIAA outomotically, LP, NAB, AES of colibrated points on tone controls. NARTB tape equalization and MIC flof frequency response outomatically. 10 lubes including rectifier. Complete with enclosure. Stze: $5 \%^{\prime \prime}$ high x $14 \%$ "wide $\times 11^{\prime \prime}$ deep. Shpg. Wi., 20 lbs.
G-375 WX
19.00 Down

Nof 189.50


660

232



## 210 STEREO PREAMP

Iwo identical preamplifiers with ganged controls for con venient stereophonic control. Motched to stereophonic om plifiers Madels SA. 232 and SA-260, il derives its power from either of these units or from enternal power supply FEATURES: Provides autamatic shup-off after lost record is played. Solonce control on frant panel permits occurate boloncing of levels. DC heater supply for alt tubes re duces hum to a minimum. Full range individual boss and troble contrals use feedback-fype circuits. High goin per mits use with even the lowest oufput mognetic cartridges Stereo or manaural operotion from oll inputs. Leff.to-righ changeover swifch on front ponel permifs proper position ing of instruments. Premium lype 7025/12AX7 low noise friodes ore used in low level sloges. SPECIFICATIONS: Outputs: 4 (2 in each channel). Inputs: 12 (6 in each chonnel). Frequency response $\pm 1 \mathrm{db} 20-20,000 \mathrm{cps}$. Oulput: oudio output jack 1 volt, tope output. 11 volf. Sensitivity for 1 volf oulput; phono ond mike 3 millivolts: tope heod 2 millivolts; tuner, multiplex and Tope recorder .11 volt. Harmonic distortion af maximum sensitivity: less than $0.2 \%$. Phono equalizotion for RIAA, IP, NA8 and AES curves; NARTB tope head equalizotion. Tubes: 7025/ $12 \mathrm{AX7}$ preamplifiers (one in eoch chonnel). $12 \mathrm{AX7}$ voltoge ond ione control amplifiers fone in eoch chonnel). Supplied with 3 fool power coble, ond 3 fool shielded oudio output colales. Size: $14 \% \%^{\prime \prime} \times 5^{\prime \prime} \mathrm{H} \times 11^{\prime \prime} \mathrm{D}$. Shpg, wf.,
G.376WX .................9.00 Down....................Net 89.50 MOOEL P- 10 Oplionol power supply for use with model 210 when used with empliflers other thon Pilot models G.377 W Shpg. wt., 5 lbs.

Iof models.
Nof 19.50


## 690A STEREO TUNER <br> AND PREAMP


#### Abstract

A compact complete "front end" for a sterea musle sys tem. Combines 0 sterea AM-FM funer with 0 versollite stereo proomplifier and control center. FM TUNER FEA. TURES: Low noise cascode RF ompllfier gives sensitivity of $1 \mu$ volt for 20 db quieting. Interstotion noise muting with odiustoble threshold control and front panel defeat switch. Wide bond detector 1 MC wide. 3 IF stoges and fwo limiters. Built - in metering and ontenno. Preompli. fier has two identical chonnels. Unique outomotic shutoff enables record chonger to optionolly furn off entire syitem after last record hos played. DC heoter supply; feedbock tone control circuits; oudio and tope outputs. 4 inde. pendent tone controls with Pilot Trolok for optionol gonging. 14 inputs. 3 poirs of high level inputs for permanent simultoneous connection of FM. AM tuner. Multiplez adopt. er and fope recorder. 4 pairs of low level inpuls for tope heod microphone and permonent connection of record chonger and turntable All inputs non.shorting to permit chope recording and ploybork without short circulting lape recording signal or chonging of plugs. Electronic crossover for monophoni operotion. Mono positlon on Mode switch outometically concels oul undestred vertleal stere sor oufomoficolly concels oul undesired verfical stereo cop. tridgo response when playing monophonic records. 18 high $x 11^{\prime \prime}$ deep. Shpg. Wi., 25 pounds. Complete with c-378WX

.26.95 Down

Net 269.50


## 580 STEREO FM-AM TUNER

Truly renks of the fop of its clossi Independent FM ond AM sections may be used individualty or simultaneously With externol Multiplex demedulator, the 380 will pro vide FM Multiplex stereo reception. The FM section has o low nolse, duol.triode RF amplifier with accurotely tracked antenna ond interstoge circuit funing. Freedom from drift is ossured by means of a temperofure compensated ascil. lofor, and wide-bond defector (1-me wide). Cenfro-tune FM funing indicolor focilitotes precise funing to center-alchonnel for lowest distortion. Two If stoges ond two limif. ers with excellent nolse suppression. FM Multiplex output ock, built-in FM onlenna and focillities for 300 -ohm 1 win leod ond 72 -ohm cooxiol coble included. $A M$ section hos - high goin pentode. RF omplifier, o triode-pentode os. cillotor-mizer and steep-skirted IF sloge. A germanium diode detector is used for moximum defection afficiency and lowest distortion. AM section also includes 10 KC interstation whistle filter built-in AM ontenno and temporoture compensated AM ascillator. FM sensitivitys i.5 $\mu \mathrm{Am}$ sonslivivity: 3 uv . Dual cathod follawer outputs $\mu v$ Am sensifivity: $3 \mu$. Dual cathode follawer outputs, $144^{\prime \prime} w^{\prime \prime} \times 5^{\prime \prime} h \times 11^{\prime \prime} d$. Wi. 24 lbs. Includes encloiure G-379WX .................18.00 Down..................Net 179.95

## 590 STEREO FM-AM TUNER AND DUAL PREAMP

Tuner hos independent AM-FM sections which moy be used individuolly or simulioneously. Feolures low noise RF amplifier, built. In ontenno, temperoture compensated or cillator, side bond detector (1 me wide), tuning indicotor, two If sloges and iwo limiters. Preomp includes 4 inde pendent tone controls. 3 pairs of high level inputs, 2 poir of low level inputs. All inputs ore non-shorting to permit tope recording ond ployback withoul shorl-circulting tope recording signol or chonging the plugs. Direct lope ploy bock facilitios. Focilities for extension speokers. Elec tronic srossover for monophonic operation. Loudness swifch for enhonced listening af low teval. Aulomatic shutoff anobles record chonger to furn off entire system of your option ofter last record. Mono position on mode switch automotically cancels out undesired verticol steree sar tridge responso when ploying monophonic records. Size: $14 \%^{\prime \prime}$ wide $5^{\prime \prime}$ high $11^{\prime \prime}$ deep. Complete with en closure. Shpg. wf., 28 ib
G-380WX

## 660 FM TUNER

FEATURES: Low noise coscode RF omplifier gives the highest sensitivity. Interstation noise multng with odjustable contral eliminotes noiso between stations. Optionol muting defeof. Illuminated runing meter. 3 If stoges followed by 2 limifers, high sensitivity ond wide, steep. skirted passbond. FM multiplex ouipul provides for connection to externol multiplex demodulotors. Uniform output level independent of input signal level. Output level conirol ond cothode follower low impedonce output. SPECIFICATIONS: Tuning ronge 88.108 MC. Sensifivity: 1 microvolt with $30 \%$ modulation for 20 db quieting. Delector bondwidth is I Mc, bondwidth of IF stoges is 200 Kc of 6 db down. Built-in ontenno, ferminols for 300 ohm ontenno, Q tubes: 6BO7A RF coscode omplifler, 6U8 oscillotor ond mixer, fwo 68A6 and one GAUS IF omplifiers, 6 BN' dynomic Ilmiter, GAUS soturotion limifer fiers, 6BN6 dynomic IImiter. GAU6 soturotion limiter, E281 rectifier plus 3 diodes ond pila cothode follower, $5^{\%} \times 11^{\%}$ Shpe wi diodes and pilof lighes. Size: $14 \frac{\%}{5}$ G.38iwx Shpe. Wi.. 151 bs.

## 232 STEREO AMPLIFIER

Twa complete power omplifiers with lotol outpul power of 32 wotts and peok output of 84 wolts. Automotic shut-off switch turns off entire system offer lost record is ployed. Frequency respanse $20.20,000 \mathrm{cps}$ with moximum harmonic distortion of $1 \%$ and moximum intermodulotion distortion of $1.5 \%$. Sensilivity: 1 volt for full power output. Hum level 90 decibels below full power output. Oulput impedance, 4,8 of 16 ohms. 8 tubes. 110 volis, 60 cycles $A C$. Size: $131 / 2^{\prime \prime} L \times 51 / 2^{\prime N} \mathrm{H} \times 5^{N D}$. Shpg. wf., 25 lbs
G-382wx
8.95 Down

Nef 89.50

## 260 STEREO AMPLIFIER

Compoci stereophonic omplifier with 80 wott RMS outpul and 120 waft peok autput. Individual bios and bolonce controls permit boloneing of output stoges for minimum distortion. Automatic equipment shut-off offer ploying of lost record. Frequency response 20-20,000 cps, of $1 / 1 \%$ harmonic distartlon ond $1 \%$ intermodulotion distortion. Sonsitivily is .8 volf for full oulput. Hum level 90 db below full power oufput. Output impedances 8 and 16 ohmi 9 tubes $105-120$ volts 60 cycles. Sizes $15 \% / 4$ $5 \% \mathrm{~m}^{\prime \mathrm{H}} \mathrm{H}, 71 /{ }^{\prime \prime} \mathrm{D}$. Shps. w1., 40 lbs . G. 383 WX . $7 \%$. Shpe. wl. 40 lbs.

# HI-FI COMPONENTS 





## 245-A STEREO PREAMP-AMPLIFIER

Complate, versotile, ttereophonic preomplifier-omplifier Soven poifs of inputh, inclualing high level inputs for FM.AM lunar, Multiplea odopter and lope recorder, low level for reserd changer, furntable, misrophone and tope head. Automotic shutoft enobles record changer to turn off complete system ofter lait record. Terminals permif connection of ertension seeokers. Pour bynchronized vol me controls with oingle knob. Electronic crossovers. Lo modors dual rope oupurs. per oulpur 0 woth per honel. Mulic pow, FM. AM multiplar outout; phono $3 \mathrm{mvi}^{\text {fope hood }}{ }^{2} \mathrm{mvi}$ FM. AM multiplex tape recorder, 110 my . Num 80 db below output. Fre queney cesponse: $\pm 1 \mathrm{db}, 20$ to 20.000 ercies. Oulpul mpedance: 8 ond 16 ahms. Phono equalization: RIAA outomatically, oplionol LP, NAB, AES of collibrated points. NARTE Tope equalizotion outomotically. Microphone flot: 12 tuber including rectifier. Size $14 y_{0}{ }^{\prime \prime}$ wide $12 \frac{1}{2 \prime \prime}$ dees. ${ }^{\text {clot }}$ C.384wx
19.95 Down

Net 199.50

680 STEREO FM-AM TUNER

A delure thereo unit offering the ultimote in reception, FM and AM inctions moy be uted individually or simulfoneously. With on external Multiplez demedulator the © 80 will provide FM Multiplen stereo reception. FM funer featurer include $1 \mu \mathrm{v}$ senslitivity for 20 db of quieting; lemperoture compensated escillator. Wide bond detector (1.000 KC wide). Audio output constont, 3 IF stages and 2 limitert. Contral for optional mullng defeat. Indepen2 limitert. Coniral for optiona mulla derean fand ontenna ond facilitles for 300 -ghm twin lead and 72 -ohm coorial cable, AM for 300 ohm twin lead ond 72 -ohm coorial cable, AM sections Sentilvity $2 \mu v_{\text {d }}$ emplovi germanlum diode de. rector. Features high-goin pentode 胙 amplifier. 2 steep thirted if stages with front panel bandwidth contral and 10 KC whintle filter, if Interforence rejection trap. Sepa. rote Am tuning mater, Built-in antenna. 14 tubes: 4 diodess olus rectifier. Slier $14 \%$ " $5^{\prime \prime} \times 12 \%$ ". Shpe. W1.. | 25 bs, Complete with enclosure. |
| :--- |
| c.385x. |

Not 219.50

## 240 STEREO PREAMP-AMPLIFIER

The 30 -watt stereaphonic preamp-omplifier that represents the best volue In tis clats. Four independent tone controls. 3 pairs of high leval Inputs for permonent timultoneous connection of FM-AM tuner, Multiplen edepter and tope recorder. 2 poirt of low level Inputi for permonent con. nection of record changer and turntable. Direct tope playback facilitier. Terminat for entention speoters, with front ponel speoker selector iwlich Electronic crossover for monoohonic bi-emolifier use. Aulomotic shut-off. Mono patilion an Mois awith automaticolly concels out un pasillon an mod ice desired verical iereo rerpane when plarin monaphonic records. Eleven front ponel contrals. SperificotiontPower outputs: 30 walls fotol; 15 wath per chonnel, music power. Sontirivity for full output phono: 3 mv tortion $1 \%$. Mum and noise 80 db below full output. Fire fortion $1 \%$. Mum and noise 80 db below full oulput. Fire-
 $5 y^{\prime \prime}$ high $14 \%$ wide
Complete with enclosure. C.3B6WX. 12.95 Down.

## LATEST SHERHOOO HI-FI COMPONENTS

## S. 5000 STEREO 40W. AMPLIFIER

This brand new slereo control amplifier feapupes the mort ersatile controls avallable. Dual loudnest, bosi and treble controls; one knob varies both channels simultaneously yel, pull out on the knob, and you can vary each chonnel independent of the otheri feotures pretence, rumble and ierateh filters, DC filamants, Indicotor lights to indicate mode of operation used. For playing manaural recordi with stereo cortridges, ingeniows phasing system bolances out oll vertical (rumble and noise) pickup! SPECIFICAPIONS: POWER: 20 wath eoch chonnel. 40 walli on menaural. RESPONSE, $20 \cdot 20,000 \mathrm{cps} \pm y_{1} \mathrm{db}$ of ful power. INPUIS: Phono (RIAAI, lope heod (NARTB). high level. NOISE: $-80 \mathrm{db}(-60 \mathrm{db}$ for phono). OUT. puts, dual 4, 8,16 ohms. dual cathode followers for Tope recorder. 12 TUBES, 4.6805/EL84, 2.7199, 5.12AX7/ ECC83, C234, sel. rect. $14^{\prime \prime \prime}$ n $14^{\prime \prime} \times 4^{\prime \prime}$. Shog. Wi.. 29 lbs Model C.265WX leir core 18.95 Down Net 189.50

## S. 4400 DUAL STEREO PREAMP AND AMPLIFIER

Designed for conversion of existing monaurol hiefl sets to stereo. Some as $\$ .5000$ except has single 36 W att power omplifier. FEATURES: Stereomonaural indicator lights Dual/signol troble and bais controls./Stored normal-re verse switch. Phose invertion swifch. Ganged phono ond scrotch filter switches. Gonged tope moniter iwltch. Six high level inputs. Four phono/tope preamp inputs. Two ecordings outputs. Colop-coded cobler and receptactes Smoll phyilcal dimentioni moking postible beotishelf in itallation. SPECIFICATION5, POWER OUTPUT, 36 watt (72 paok), of $1 \mathrm{~V} \%$ distortion. FREOUENCY RESPONSE $20.20 .000 \mathrm{cpr} \pm 1 / \mathrm{db}$. SENSITIVITY, rodio.0.20V phono 2 mv . NOISE RATIO IOdio 80 db , phono 80 db below roted output. OUTPUF, 4, and 16 ohms. Slze1 $14 \times 10 \%$

OTMER SHERWOOO COMPONENTS lest cone:
\$. 100011 S 16 Waft Amplifler Shpg. Wi., 20 Ibs.
6-267WX ............. 10.95 Down. ......... Nel 109.50 $\$ .1060560$ Wort Amplifler Shpo. Wi., 21 lbs.
G.268WX ...................... Det 149.50 S. 2000115 FM.AM Tunar Shpg. Wi., 15 Ibs.

$\$ .360536$ Wolt Boric Amplifler Shpe. Wi., is lbs.
G-270 W .................5s Down..................... 59.50
FM MULTIPLEX AOAPTERS WITM Power Supply
Shpg. Wh., 7 Ibs, -Avolloble Eary Poy, $10 \%$ Down
G-271W SMX.S Wide Bond
C-272W S2mx-s 26.KC. Norrow-Band
6.273W S4mx.s 41 -KC. Norrow.Band
6.274 W Somx.S 67 .KC, Norrow.tond

## S-3000 II BASIC FM TUNER

 PEATURES; One of the mort ienilitive FM circuith ever do volopad-oniy 95 micerovalt for 20 db avioting. 1.8 micro volt for 30 db. "Feother-Roy" tuning Indicator, Logging diol parmils ipilifuccond funing. Spocial sonatitivity con. trol for locol or dittont stotiont. SPECIFICATIONS, SENSI. IVITY-is mierovolli for 20 db quiating 1.8 microvalt for 30 dib. FREOUENCY RESPONSE: $20.20 .000 \mathrm{cPt} \pm 1 /$ Yor Disionion AT $100 \%$ MODULTION- $13 \%$ IM db. DISTORTION AR MND NOISE-SO dB Below $100 \%$ $\%$ hatmonic, MUM $\pm 2$ NS with AFC, $\pm 15 \mathrm{kc}$ with how AFC. OUTPups-Cothode followar oudio, FM multiploz. AUCIO OUTPUT-2 voltr. PUEESGO IUber Ond recifior



S-2200 FM-AM STEREO TUNER fulfills todor': Herco broodcolling reawirements with oparote recoption of fM ond AM broadeosts ar well a tomorrow's storeo needi utilizing FM multiplexing. FEA. TURES: Front ponel light.bor tuning eyer. Built.in tpoce ond provitions for oddilition of multiplez odepier. Inter channoll huth, and outomotic treavency conitrol which makes FM tuning eotier thon ever SPICIFICATIONS: SENSITIVITY: 085 Av for 20 ab quining, SELECTIVITY: EM los KC @ Odb. AM IS kC Q -6 db , RESPONSE: FM $20.20 .000 \mathrm{cDA} \pm \neq \mathrm{yb} \mathrm{AM} 20.7500 \mathrm{cPD}$ © -db NOISE LEVEL FM 60 db below 100.9 mod . AM IS ab below $100 \%$ mod. TUNING RANGE FM 87.5.108.5 MC Am 530.1650 KC . It luber + rectifior. 110.120 VAC Sire. 14 \# $14 / / 24^{\prime \prime}$. Shpo. wh., 20 lbs. C.276WX loit cos. .....i7.os Down

PIUG-IN MULTIPLEX ADAPTES FOR $\mathrm{S}-2200$
6.277W AMX Wide Bond 5.00
G.278W A $2 \mathrm{MX} 26 . \mathrm{KC}$ Norrow Band
G.279W AsMX 41.KC Norrow Bond
6.280W AbMX 67.KC Norrow bond

Net 49.50 Net 54.50 Ne1 54.50 5.45 Down No1 $\$ 4.50$ Not 54.50



## 0 <br> $-\pi{ }^{2} \cdot 0$

## NEW GE MODEL G-7600 40 WATT STEREO AMPLIFIER

This integroted stereo amplifier cambines high avolity stereo performance with striking cabinet dosign. Consists of 2 power omplifiers and 2 preamp contral units on a single chossis. Features concontric boss and treble contral to permit individual channel adiustment. Power output 20 wotts per chonnel or 40 wotts fotol. Front panel conirols include: input selector (stereo or monourol tope heod, monoural phono, stereo phono, or stereo or monourol luner, stereo or monoural ouxilioryl; speoker mode selector fstereo chonnol peverse, stereo normal, popollel; monourol; channels 1 \& 2, chonnel 1, channel 2); loud. ness; cansours bolance (conilnuausly vorioblel; bass; treble; rumble fliter on-off. Inpuls with sensitivity figures: 2 sterea cortridge ( 4.5 mv ), 2 stereo popo heod ( 3 mv ), 1 monaural cartridge ( 4.5 mv ), 2 Puner ( 200 mv ). 2 ounili. ory stereo (200 mv). Tuner input adaptable for stereo multiplos programs. Outpuis: Dual speokers ( $4,8,16 \mathrm{ohm}$ terminals), dual output jocks, 2 AC outlets. Power oulput: 20 wotts per shonnel. Chonnal separation more than 40 db. Hum and nolse 65 db below 20 watts on phono inout Freq. response: $20.20,000$ cos. $\pm 0.5 \mathrm{db}$. Hermanic dis. fortion below $1 \%$ of full pated power. For 117 V . 60 forlion below $1 \%$ of full rated power. For $117 V$., 60
cycle AC. If tubes. Cobinet finished in soddle brawn vinyl. Size: $15 \times 12 \times 5 \%{ }^{\prime \prime}$. Shpg. wi., 30 lbs. vinyl. Size:
6.325 WX

## MODEL RG-1000 "STEREO CLASSIC" REMOTE CONTROL UNIT

Provides the importont sterac central remate control func. tions of shannel bolanse ond volume control up to 30 foet from the controlled amplifier. Ideally suited for use with the GE 6.7700 or $\mathbf{6 . 7 6 0 0}$ or as a remote volume control with o monourol omplifier, or lor volume and bal.
stereo. Superb styling with ebony finish bose and knobs, textured oluminum foce plate and chrome trim. Size $51 / 8 \times 2 \% \times 1 \% / h^{\prime \prime}$ with 30 . 1001 output coble. Shpg. wi. $1 \%$ lbs.
G. 328

NEW GE MODEL G-7700 56 WATT STEREO AMPLIFIER

## Engineared to fulfill the need for a top quality unit a

 modest cost. Feotures highly-siyled, recessed control panels and trim. compoct cobinets. Dual consentric boss and reble controls permit individual shannel odiustment of bass and treble tone. Controls: Input selector (tape heod monaural phona, stereo phono, funer, auxiliort) speaker mode selector fstereo rev. stereo normal, porollal, mon ourol, chonnals 1 \& 2. chonnel 1 , chonnel 21) loudness contour; bolonce; boss; trable; rumble filler, seroieh filter; speaker phosing switch. Inpuis ond sensitivity fias 2 stereo cortildge ( 4.3 mv ), 2 stereo lope heod ( 3 mv ) mon. phono ( 4.5 mv ). 2 funer $(200 \mathrm{mv})$, 2 auxiliary, stereo ( 200 mv ). Tuner input adaplable for stereo multi plex progroms. Oulputs: Duol speoker $(4,8,10$ ohm terminols), duol output jocks (bofore lane sints) ohm outlels. Power output. 36 (betore lane controls), 2 AC musie power. Freq response. 20.20 .000 per chonnel) Harmanic distortion belows $\%$. 0.5 db Mormonic distortion bolow $\%$ al fult rated power. Hum for 1175 y 0 erces. AC Cobina finlshed in beig vinm G.326wx 19.00 Down Net 189.95 G. 327 wx . 1900 Down but whit Net 189.95
en


Fhew GE Model FA. 17 FM. AM Tuner offers on unusual domblnotion of excellent oudio performonce and trim highly compotible appeorance design. This funer features high sonstivity, ond obility to receive weok signals with minimum distorlion. Front Ponal Controls: Tuning (fly. wheol): Selector switsh with Off. AM FM FM (AFC positions. Soecificotions: AM Sensitivity. 200 uv por moter for 20 db signol-10-noise rotio; FM. 2.5 microvalis on 300 ohm inout for 20 db avieting AM Selectivity 7 he 300 widith o db down, FM. 200 ke bond width, 6 dh down. FM Distortion-less thon $1.5 \%$ harmonic of roted output. less ihan $2 \%$ IM. Noise.FM 55 db below $100 \%$ modulation. $A M, 45 \mathrm{db}$ below $100 \%$ modulation AM of the btandord de.emphosistion. Response.FM, $\pm 2$ at loke to minimize whistle interference AM, 23 db down a low impedonce minize whislle interference. Audio Outputs. 3 volts nominal (2) plex. Antenno (2) low level, 0.5 valis nominal, (3) multiplex. Antenno Inputs-FM, 300 ohm (Iolded dipole ontenno external in AM. built-in ferrite rod anienna, eerminol for external on-enna. FM drift is negligible with AFC, ond Tuning Range.FM 88 to as meeling FCC reavirements. Tuning Range.FM, 88 to 108 me ; AM, 535 to 1620 kc . Tuning Meter. Duol purpase for precise FM center funing and AM maximum signol tuning. Saddle brown finish. Overoll dimensions $-15.1 / 32$ " W K $5 \%$ " H K $10 \%$ " D . Shipg. wl ..
15 lbs . For use with 110.120 volts 80 cycles AC 15 lbs . For uso with 110.120 volts 80 cycles AC. G-329WX 13.00 Down .........Net 129.95 FA.13. Same os FA.17, but with cabinet finished in beige to motch the C. 7700 Steroo omplifier

## G-330W $X$

13.00 Down

Nel 129.95
FA.16. Same as FA-17, but with cabinel finished in white to motch the G.7710 sterea amplifier.
c-331wx
13.00 Down

Net 129.95

## Sell hi-fi Stereo tuners \& amplifiers Sell

## BELL MODEL 6060 CARILLON 60-WATTS STEREO AMPLIFIER

With 2 hi.f. 15 wott amplifiers and a versatile control Hos 5 input poirs-tape heod monoural use , mag phono, ceromic phona. IP, IUner, oux $i$ Noise Filler- off, hi, to boit, EUR, RIAA, once Control with monoural switch; Loudness, Lereo Bol. buill in stereo reverse; Bass Treble. Power output-15 woms built in stereo reverse; Boss Treble. Power output-15 woms
foct chornol, 30 walts lotol for monourol use. Firea. Responise- +0.5 do 20 to to 20 kc . Distortion- $0.5 \%$ at 1 de below 15 watts. Hum level- 79 do belaw 15 w . at I do below 15 wolts. Hum leva- 79 db below 15 w .
Outouts- 4 , 8 , 10 ohms for speakers. Hi. 2 for recording.
 Operoles on 117 y
ShpJ. wh., 22 lbs.
G-3sowx

## NEW BELL MODEL 3070

## FM-AM STEREO TUNER

Footures electronic funing bor for seporate FM ond AM sections, outomotic frequency sontral, 10 kg hetrodyne filter circuit on AM, and multiples output. FM SectionSensitivitr: 6 microvolls for 20 db quieting. Solectivity: 6 db down af 200 KC . Hum and naise. 50 db below $100 \%$ modulation. AM Section-Sonsitiviry: $20 \mu V$ for 0.1 V out. put at $30 \%$ modulation. Selectivitys 6 db down of 11.5 KC. Output: 2.5 V of $100 \%$ madulation. Size: $41 / \mathrm{s} \times 16 \mathrm{~m}$ $111 / \mathrm{s}^{\prime \prime}$. Shpg. wf., 15 lbs
C. 35 iWx
Page 30
14,00 Down
Not 139.95

The new Model 6060 is designed to perform to loborotory standards, with o full 80 wolls of power. Every steroo advoncement known is incorporoted into the Corillon to keep it new for yeors to came. Has oll the feolures yov'll ever need for highest degroe of perlect sound reproduction. Features seporate Boss and Treble tone controls and continuously variable loudness control. Input Selector Switch oven has position for Mike inputs. Froni Panel Controls include: Selector (Mike, Topo Head, RIAA, LP, EUR, Tuner. Tape Amp. Aux); Lefl Chonnel Bass; Loff Chonne Troble: Bolance; Loudness: Ripht Channel Bass; Righi Chonnel Troble; Level Control combined with push-pull Power On-Off Switch. Lover Switches include: Lo Fil.or ( 40 cps sutoff, Off, 80 cps cutaff): Mi Fitrer 18 KC culoff Olf, 4 KC cutolf): Function (Stereo Rev.. Sterea, Man oural): Stereo Speaker Selecior (AB, A, B). Rear chassis controls: Individuol left and right level Sot controls for tuner, tope omp. inputs; 2 AC switched outlets. Duol out putss A, 8,16 ohm ond high impedance far recording. Power output: 30 watts RMS eoch chonnel: total 80 ; peak 120. Pawer respanse: $20.20,000 \mathrm{cps}$ of 30 watts $\pm i \mathrm{db}$. Distortion less than $1 \%$ THD of 30 walts. Frequency re sponse: $15.30,000 \mathrm{cDs} \pm 1 \mathrm{db}$. Hum level 71 db below roted output. Tubes: 4 EL34/6CA7: 6, ECC83/12AX7; I 5V3. For li7V 60 cycle, AC. Power consumption: 230 wolts. Finish in rich soddle-ton vinyl. Size: $10 \times 111 / 2$ $61 /{ }^{\prime \prime}$. Shps. wl., 40 lbs.
6.352 wx

The new CARILLON stereo tuner is a high fidelity com. ponent of excepional quality, with o combination of outstonding feo.ures for perfect listening enjoyment. The Model 6070 is o perfect mateh for the new Bell Corillon stereo omplifier. FM Section-Sensitivity: 1.1 microvalts for 20 db avieting of $100 \%$ modulation on 300 ohm termination. Selectiviry: 6 db of 200 KC . Imoge rejection is 60 db . Dissortion less than $1 \%$ of $100 \%$ modulation. Frequency response: $20.20,000 \mathrm{cps} \pm .5 \mathrm{db}$. Frequency ranges 88.108 me . Hum and noise is 50 db bolow $100 \%$ modulation. AM Soction-Sensitivity: 3.5 microvolts for 20 db signal/noise af $100 \%$ modulation. Selectivliy: 8.5 KC (norrow): 19 KC (wide). Image rejection: 72 db . Distortion less then $1 \%$ at $30 \%$ modulation: $1.2 \%$ at $80 \%$ modula.ion. Frequency responses $20-8.000$ sps (wide). Frequency range: 535.1840 KC . Hum and noise 50 db bolow of $100 \%$ modulation. Front Panel Controls include: FM funing. AM tuning. Selectar switches include: Power On-OH, AM Bandwidth, wide, narrow; Function, AM.Stereo-FM; AFC On.Off. Reor Panel Control has AM and FM level set. Hos 2 seporote luning melers for FM ond AM. Oulput for both AM ond FM is 1 volt RMS of $100 \%$ modulotion. Tubes: 1.6ES8, 1.6DJ8, 3.6AU6, $2.68 \mathrm{NB}, 1.68 \mathrm{EO}, 3.68 \mathrm{~A}$, 1.E280. Power consumption. 53 wolls of 117 volfs, 60 cycles. Size: $16 \times 10 \% \times 5^{\prime \prime}$. Shpg. wt., 19 lbs

## NEW! LAFAYETTE-GOODMANS 3-WAY EXTRA-VALUE HIGH FIDELITY SPEAKERS

MADE BY THE FAMOUS GDODMANS English Mifr of Some of The World's Best Hi-Fi Speakers! CUSTOM BUILT TO LAFAYETTE'S OWN RIGID SPECIFICATIONS


DNLY 10\% DOWN EASY TIME PAYMENTS

## LAFAYETTE-GOODMANS 11/4B. ALCOMAX MAGNET 12" AND $15 " 3$-WAY SPEAKERS

- $12^{\circ}$ SPEAKER WITH 30-WATT POWER RATING $15^{\prime \prime} 35$ voice coil. Rugged mefol frame. Otherwise the some suWATTS WITH PLUG-IN 12 OB PER OCTAVE C CROSSOVER NETWORK \& L-PAD LEVEL CONTROL

SM-110 3-WAY $12{ }^{\prime \prime}$ SPEAKER
Another highly efficient integroted $12^{* \prime} 3$-way specker Another highly efficient ing response of 30.20 .000 eps , cone resonente 35 eps, and power rating of 30 wolts program material; di-
 Goodmons speakers on this poge, Shpg. w1., 20 lbs SK. 11 IOWX GET 2 FOR STEREO
5.00 Down SK-IIIWX3-way I

Only 44.50 Eo. Net but $15^{\prime \prime}$ speoket, with $13 / 4 \mathrm{Ib}$. magnel. Same os $5 K-110$ resonance of 25 cps . $7^{\prime \prime}$ deep. I $5 \%$ overall diameter. Shpg. Wi.. 25 lbs SK-IIIWX $11 / 4$ LE. MAGNETS 30-WATT 12" 47.50 35-WATT 15" 54.50
$12 \mathrm{db} /$ Octave
L/C Crossover with L-Pad

## LAFAYETTE-GOODMANS $31 / 2$ LB. ALCDMAX

 MAGNET 12" AND 15" 3-WAY SPEAKERS watts heavy die.cast non.resomant frames 12 DB PER OCTAVE GROSSOVER WITH L-PAD HIGH-FREOUENCY LEVEL CONTROL 25-3S GPS WOOFER RESONANCE

SK-112 3-WAY 12" SPEAKER
This is o 3.way integrated $12^{\prime \prime}$ speaker system whose pervery best ovoilable. The superior elficiency of the $31 / 2 \mathrm{lb}$. Alcomax magnet with total flux of 185,000 morwells plus the excellent constructionol detoils, the exclusive Goodmons cone bonding and tieatment process, the 35 cps cone resonance, the superb Goodmons hoin. looded compression. frame-oll ore combined to provide onather LAFAYETTE SUPER-PERFORMANCE VALUE, mode possible only by it

 SK-112wx GET 2 FOR STEREO

Only 63.50 Eo Nel
SK-113WX 3-way $15^{\prime \prime}$ with $31 / 21 \mathrm{lb}$. magnel, Same as $5 \mathrm{~K}-112$
 of 4 l SK-113wx 7.95 Down Net 79.50 GET 2 FOR STEREO

```
    31/2 LB. MAGNETS
40-WATT 12" 69.50
45-WATT 15" 79.50
```

Crossover Network
$12 \mathrm{db} /$ Octave with
L-Pad Control

LAFAYETTE-GOODMANS 6\% LB. ALCDMAX MAGNET 12" AND 15" 3-WAY SPEAKERS - i2" speaker has 45 watt power raping ois" so wait - complete with plue in 12 de per octave lic crossover network \& I.pad level control - heayy die. Cast non resonant frames

## SK-124 3-WAY 12" SPEAKER

A highly-efficient 3-way 45 -woll speoker for foithful roproduction of the complete oudible spectrum without tone coloration or distortion. Response $30.20,000$ cps, hos ex-
clusive Goodmans speciol process woofer cone with ${ }^{\prime \prime}$ " diometer aluminum voice coil ond cone esononse of 35 cps, $6 \% \mathrm{lb}$. Alcomon mognet (the most elficiont magnetic moteriol ovailable), stiflisoned mid ronge radiolor with 2000 cps mechanicol crossover, and horn-loaded compression iype Iweeter with self-aligning oluminum voice coil
ond diaphrogm, Magnetie fluy density is 14,500 gouss;

6y LB. MAGNETS 45-WATT 12.179 .50 50-WATT 15" 89.50

#  

## RADAX COAXIAL SPEAKERS

The Radox principle is on economical method of using two coanial canes both aperating from single volce coll, to divide the oudible spectrum for reproduction.
MODEL SPAB RADAX SUPER-EIOHT-8" speoker. Reso. nance, 55.65 cps. 20 walls. Response 35.13 .000 cps . 16 nance, 55.65 cps. 20 walls. Response 35.13 .000 cps . 16
ohms impedance. Sens. 1t. 45 db . Cross-over, 600 cps .
 $4 Y^{\prime \prime \prime}$ depth behind ponel. Shpg. Wi., 9 lbs.
CS.18 ............... 5.00 Down 28.91 MODEL SP12E RADAX TWELVE $-12^{\prime \prime}$ speoker. Roso. nonce, 40.50 cps . 20 watts. Response, $30.13,000 \mathrm{cps} .16$ ohms impedonce. Sent, rig. 16 db . Croisover, 4500 cpt .
 opening $8^{"}$ depth behind panel. Shpe. Wi., 12 Ibi. 34.30

GS-19 5.00 Down MODEL SPI2 RADAX SUPER-TWEIVE-12" speaker. Resonance, 35.45 cps .25 watts. Response, $30-13,000 \mathrm{cps}$. 16 ohms impedonce. Sens. itg. 48 db . Crossover 4000 cps. 3 Ibs. Alnico $V$ mognet. $12 \mathrm{y}^{\prime \prime}$ diameter, $11^{\prime \prime}$ baffle | opening $7 V_{3}^{\prime \prime}$ depth betind panel. Sppe. Wt., 25 lbs. |
| :--- |
| $\mathbf{W} 5020 \mathrm{WX}$ | MODEL SPISE RADAX FIFTEEN-15" speoker. Reso. nonce $38 \mathrm{cps}$.15.20 watt. Responte $30.13,000 \mathrm{gps}$. 16 nonce Impedance. Sens. M1. 47 db . Crossover 3500 cps .

 ing. 7\%" depth behind mig. ponel. Shpg. Wi., 15 lbs.
GS-22 WX............................. Nef 42.14 MODEL SPIS TADAX SUPER-FIPTEEN-15" spoaker. Resononce 40 cps .30 walts. Retponse $30.13,000 \mathrm{cps} .16$ ohmi impedance. Sens, fle., 50 db . Crassover, 3000 cps . $51 / 8 \mathrm{lb}$. Alnico $V$ magnet. i $15 \%$ " diameter. $131 /{ }^{\prime \prime}$ boffio opening.g" depth behind panel. Shpg. Wt., 41 lbe.

## VERY-HIGH-FREQUENCY DRIVERS

 MODEL T350-Adds very high frequencies with extro onst rang. Rosponse 1021 te sentemi hoving extended bass ronge. Response 1021 ke. Sens. Rig. 60 db . 2 ib mognef. 16 ohms. Recommended crossover 3500 cps. oll depth $41 / 2^{\cdots}$. Shpg. Wi. $9 \%$ ibs.MOOEL 135 -Reprod 50 Down ..................... Net 58.80 MODEL 135 - Reproduce: VHF ronge, for use with delure multiway iystems response to 19 ke . Sens. Rig. 57 db . 8 or. mognet. 16 ahms. Recommended crossover 3500 cps .
Horn $51 /{ }^{\prime \prime}$ long. 2" wide. Pof $21 / 4^{\prime \prime}$ diometer. Overall Horn $51 / 4^{\prime \prime}$ long. $2^{\prime \prime}$ wide. Pof $21 / 4^{\prime \prime}$ diometer. Overalt
depth $314^{\prime \prime}$. Shpe. Wi. 3 lbs.


Net 34.30 MODEL T3SE-F or VHF reproduction in multiway syitems. Response to 18 kc . Sens. Rig. 54 db . 16 ohms. Recom. mended srassover 3500 cps . Horn $51 / 2^{\prime \prime}$ long, $2^{\prime \prime}$ wide. Pot $2 \%$ " diomelef. Overall depth $3^{\mu}$. Shpg. Wi.. 3 ibs GS.13 ……........... 5.00 Down................... Ne1 21.56 MODEL T25A. HF driver, $20-30$ watts. Response: $400 \cdot 13.000$ sps. Imp. 14 ohms. Sens. "fg. 53 db . 1 ib . Alnico $Y$
mornet. $3 \%{ }^{\prime \prime}$ giam., $4.1 / 16^{\prime \prime}$ deep. Throat diam. $\%$.
 Shg. wt., 6 lbs.
GS.28 N.70 Down Net 36.84

## TRX INTEGRAL 3-WAY SPEAKERS

Concentric dosion combines the odvontoges of VHF re. production, Radox propagator, and lorge bass cone with hoovy mognot in one assombly.
MODEL I2TRX-Overall diameter $12 \%{ }^{\circ}$ ". Resonance, 40 cos. 25 wasth. Magnot weight, $31 / 2 \mathrm{lbs}$. Response, 30 . 15,000 CD: in recommended ARRSTOCRAT onclasure. Mo. chanical crossover, 2500 cesis electrical crosiover, 3500 cps. Depth behind panel, $8^{\prime \prime}$. Impedance, 10 ohms, Se rfg. 19 db . Shpg. Wf. 32 thi. With X36 and AT37. GS-17WX 12.25 Down .................... 122.50 MODEL 12 TRXE-3-Way astembly completely wired with HF control. Overall diam, 12 K ", Resonance 43 cpz 20 in ARISTOCRAT., Mec., 2 oz. ROsponse, 2000 Sol buils. In - lectricol crostover 3500 cps. Dopth behind ponel 6 . $1 / 10^{\prime \prime}$ Imp., 16 ohmi. Sent. Rtg. it db. Shpg. wt. 14 lbs. $x 36$ is not required.
GS.15 MODEL $157 R X-15 \%$ diomoter overall. Retonance 35 . 45 cps .30 walt. Mognet weight, $5 \%$ lbs. Response 30 . 15,000 cps in REGENCY enclosure. Depth behind ponel $91_{1}^{\prime \prime}$. Mechonical cressover 2000 cps, electrical crossover, 3500 cps . Impedance, 10 ohms. Sens. rig. S1 db. Shpg. wt., 48 ths. With $\times 36$ and AT37.
CS-16 WX
MODEL $15 T R X B-I n i e g r o t e d ~ D o w n ~ . . . . . . . . . . . . . . ~ N o t ~$
146.02 MODEL ISTRXB-Iniegroted 3.way assembly completely wired with HF Control. Overall diam. $15 \% \%^{\prime \prime}$. Resonance 38.48 cps. 20 watts. Magnel weight 1 1b. 2 oz. Rerponse $30 \cdot 15,000 \mathrm{cps}$. Mechanical crossover 2000 cpi . lecirical crossover 3500 cps . Depth behind panel 7\% . Impedance 16 ohms. Sens. 1 tg. 47 db . Shps. Wi., 17 lbs . X 36 not GS.14WX
7.75 Down ...

Net 77.42

## IONOVAC IONIZED AIR VHF DRIVER MODEL 13500

A new approoch to high frequency reproduction. A glow. Ing violet "cloud" of lonized air peplaces the speoker diaphragm. The cloud ts modulated directly by the oudio signal. The result is impeccoble sound reproduction. Fre-
quency response $\pm 2$ db from 2 to 40 kc . RETMA senti. quency response $\pm 2 \mathrm{db}$ from 2 to 40 kc . RETMA sensi.
livily 60 db . Impedance 160 ahms. Hondles 50 watts. livity 60 db . Impedance 160 ohms. Mondles 50 watts.
Size $51 / 3^{\prime \prime} \times 5^{\circ} \times 131 /{ }^{\prime \prime}$ Shpg. Wi., 22 lbi .
65.10 WX EXPAND YOUR HI-FI SYSTEM WITH STEP-UP KITS MF-1 MIGH FREQUENCY STEP-UP KIT-Eztonds high frequency performonce of Wolverine ipeakers. Kit in. cludes high freavency horn driver which spicods the sound through a full 180 arc. 3500 eps crassover fur. nished, has buili in level control. Tweeler size $5 y_{4}^{\prime \prime \prime}$ L.,
$2^{\prime \prime} W_{1}, 2 \%$. Shpg. Wi., $4 \%$ lbs. With all hardware and Instructions. 6549

Net 19.60 MF-1 Mid-Frequency Step-Up Kit-For oddition to Wolver. ine 12" specker systams ofter MF. 1 kit has been added. Kit canverts the 2 ,way system to 3 -way. Includes special horn driver with 180 dispersion for even sound spreod. A $6 \mathrm{db} / \mathrm{ocl}, 1000$ cyclo crossover is includod. 8 ullt-in level control. Speaker slier $4^{\prime \prime} \mathrm{W}, 10 \frac{1}{2 \prime \prime} \mathrm{~L}, 9 \% " \mathrm{D}$. Shpg.
Wi.. 5 lbs.


## CROSSOVERS

All EV crossovers use high. O aif core colls and poper con. densers. Low insertion losts attenvation 12 db per actove in $1 / 2$ section. 6 db per octove in $1 / 4$ section crosiovers. MODEL X 8 Crossover. $1 / 1$ section, Crossaver paint. 800 4ps. Impedance 16 ohms in ond out. Sire $4.11 / 16^{\prime \prime} \mathrm{h}$. 4.1/16" w., 3\%"d. Shpg. Wt., 4 lbs. (not illustrated)
G5.30 MODEL X825 Crostover of used in EV 108 vitem. $1 / 4$ section. Crossaver polnt, 800 〔ps. Impedonce 16 ohms in and out. Size $3.7 / 16^{\prime \prime} \mathrm{h} ., 4.7 / 16^{\prime \prime} \mathrm{w}, .340^{\circ \prime} \mathrm{d}$. Shpo. Wh.. 3 lbs. (not illustrated)
05.29
Madel X36 Crassover. Recommended tor wet 10.62 and 135B. 1/1 sectlon. Crossover point, 3500 with T35 dance 16 ohms in ond out. Size $3.7 / 16^{\mathrm{NH}} \mathrm{h} ., 4.7 / 16^{\prime \prime} \mathrm{w}$. . $3 \%^{\prime \prime} \mathrm{d}$. Shpo. Wi. 2 lbs
G5.31
..Net 9.31
MODEL X-2835. 4-way Driver. $1 /$ and $1 / 2$ sections. Cross. over points 200,800 , 3500 cps . Imped. 16 ohms. Size


## MODEL XTI STEREO MIXER TRANSFORMER

Permiss use of either 4.8. or 16 ohm syitem with feed the loops in the roice coll secondorY. The XTI isolates be o short circuil of bath ampllflers. Shpg. wh., 3 lbs.
os. 40

## LOW FREQUENCY DRIVERS

MODEL $120 \mathrm{~W}-12^{\prime \prime}$ LF driver. Resononce, 40.50 cps . Usod in EV YOgA systom. I ib. Alnico Y mognet 20 wots. Impedonce, 16 ohms. Sonn. ris., 45 db d $121 / 4^{\prime \prime}$ diom., 11 " oponing. $0^{\prime \prime}$ depth behind ponel. Shps. Wh.. $12 \mathrm{lls}$.
65.23
5.00 Down

Net 34.30
MODEL $12 \mathrm{~W}-12^{\prime \prime}$ tF driver, Resononce $35-45 \mathrm{cpt} .3 \mathrm{lb}$. Alnico $V$ mognet, 25 wotts, 16 ohms impedonce. Sens rfg. 48 db . $12 \frac{1}{4}$ " dlameter 11 N max. baffe opening. $71 / \prime$ depth behind panel. Shpg. Wi., 25 lbs.
OS-24WX MODEL $15 \mathrm{~W}-15^{\prime \prime}$ LF driver. Resanonce, 25.35 cps . 5 V Ib. Alnico $V$ magnet. 30 watti. 16 ohms impedonce. Sens. fig., 50 db . $15 \%{ }^{\prime \prime}$ diam. $131 /{ }^{\prime \prime}$ mak. opening. on be. hind ponol. Shpg. Wi., 41 lbs.
MOOEL $158 \mathrm{~W}-15^{\prime \prime}$ if diver Resonome. Net 87.22 1 Ib Anica $\vee$ mognet 20 walt it iononce, 38.48 cps . Sent. rto $47 \mathrm{db}, 15 \%^{\prime \prime}$ diam. $13 \mathrm{y}^{\prime \prime}$ ohms impedance ing. $7 \%$ depth behind mig. panel. Shpg. Wi. is lhs 05.25 ..................... 5.00 Down ......................Net 42.14 MODEL $18 W-18$ " LF driver, 30 wotts. Resonance, 25. 35 cps. I6 ohmi Impedance. Sens, itg. 53 db . $181 / \mathrm{y}^{\prime \prime}$ diom., $161 / 2^{\prime \prime}$ max. opening, $10^{\prime \prime}$ behind ponel. $51 / 4 \mathrm{lb}$ Alnico $V$ magnot. Shpg. Wi., 43 lbs.
GS.27WX ……...... 11.75 Down ............. Net 117.60 MODEL 30W-30" LF Driver. 8 cps. $4 \% \mathrm{lb}$. ceramic mag. not. 16 ohms. Imp. Sens. roting 55 db . $291 / 4 \mathrm{dio}$. $281 / 4$ mox, opening, 13 km behind ponel. Shps. Wi., 42 lbs.

Model BHD Diffraction Morn. New principle provides per feet dispersion of high frequencies through o $120^{\circ}$ solld angle. Actual cutoff 600 cps , crossover 800 cps , aliminat ing cutoff disturbonces. Mode of fiberglass. For 110 A and T25A drivers. $3^{1 / 4^{\prime \prime}} h_{\text {., }} 141_{4}^{\prime \prime} \mathrm{w} ., 71 / 3^{\prime \prime}$ d. Mounting hardwore included. Shpg. Wl., 4 lbs.

## G5. 35

Net 17.64
Madel Ar37 Leval Contral. 16 ohm "L" pod. For use with $135, \mathrm{~T} 35 \mathrm{~B}$. TIOA, T25A, 848 HF drivers and similor applications. Adiusts output level to individual tate. Me. hogony dial. Shpg. Wi., 6 oz. GS.33 ......................................................................... 3.8
Model AT37B-Similor to above but blonde. Shpg. Wi., G5:34

Net 3.81

## "WOLVERINE" FULL-RANGE HI-FI LOUDSPEAKERS

LS-8 FULL RANGE 8.INCH LOUDSPEAKER
New, economical $8^{\prime \prime}$ speaker for use where space is a promium. Radax canstruction with one. plece molded canes. Respanse $50.13,000$ cycles, peak power 40 wotls, Impedonce 8 ohms. $8 \%$ " dio., $31 / 2 \mathrm{~m}$ deep. Shpe. Wi., $41 / 8 \mathrm{lbs}$. 65.36

LS. 12 FULL RANGE 12 -INCH LOUDSPEAKER
Now populorly pricod 12 -inch cooxiol loudspeaker of exceptionally high quality. Rodox cane pro. vides a tmooth treble response, low distotilon response 30 to 13,000 cps, pook coposity 40 watts. Impedonce
Shpg. Wi.. 6 lbs.

LS-15 FULL RANGE 15-INCH LOUDSPEAKER
New, low cost 15-Inch coaxiol loudipeoker. Ro. dox construction. Response 30 to 13,000 cps peak capacily 40 walls, I mpedanco 8 ohms. $15 \%$ $\begin{array}{ll}\text { dio. } 8.11 / 32 \text { deep. Shpg. Wi., } 12 \text { lbs } \\ 65-38 & \text { S......... } 5.00 \text { Down .......... Net }\end{array}$ 5.00 Down ........... Net 24.01

# Elutrozöcic <br> ENCLOSURES, HIGH EFFICIENCY SYSTEMS \& CONSOLES 




CORONET


apistocrat


BARONET

An enclosure of suparb styling for $15^{\prime \prime}$ specker or 2. or 3.way systoms, without modifications. Has "built-in corner". Can be used in corner or ogainst flat wall. Respense down to 30 cps . Solected hardwood veneers. Grilte in brushed brass linish. Size: 29\%"H, 331/2"W, $19^{\prime \prime} \mathrm{D}$. Shog. wt.: 90 lbs,
Ghpg. wh., 90 lbs, 12.75 Down ........ Not 127.50 G8-33WX Mahod ........ 12.75 Down ........ Net 127.50 GB-35WX Wolnut ........ 13.75 Down ........ Not 137.20

## REGENCY III

Includes E.V doluxe $15^{\circ \prime} 3$-way syitom complotely wired and installed in Regoncy enclosure. Shpg. wt., 135 ibs: G8.36WX Mohog ….... 38.50 Down ........Not 385.14 Gs-37WX Ook ....... 39.50 Down ......... Net 394.94
GB-38WX Wolnut $39 . . .30$ Down ....... Net 394.94

UNFINISHED ENCLOSURE KITS

## KD 4 REGENCY

Folded Horn Lowboy for Wall ar Carners Takes 15" Co. oxial Or 3.Way Speaker Or Systoms. 29\%" $\mathrm{H} \times 33 \%^{\prime \prime} \mathrm{W}$ E $19^{\prime \prime} \mathrm{D}$. Shpg. Wi., 70 lbs. GB-48 WX

### 7.15 Down

Nef 71.54

## KD 6 ARISTOCRAT

Spoce-Savar Folded Corner Horn For 12" 2. Or 3-Way Systomb, $29 \% " \mathrm{H} \times 12^{\prime \prime} \mathrm{W} \times 15 \%$ " D. Shpg. Wi., 36 lbs,

KD 7 BARONET
Folded. Horn Corner Enclosure Of Smoll Size For $8^{\prime \prime} 2$. Way Syitoms. $23^{\prime \prime} \mathrm{H} \times 14^{\prime \prime} \mathrm{W} \times 13^{\prime \prime} \mathrm{D}$. Shpg, Wi., 16 lbs. GB.50WX ................ 5.00 Down ................ Not 25.48 KD 9 MAROUIS Along-the-wall folded horn on
I $141 /{ }^{\prime \prime} \mathrm{D}$. Shpg. Wi., 38 Ibs . Gs-siwx Shpg. Wi., 38 Ibs.
............. 5.00 Down
$\mathrm{H} \times 19^{\prime \prime} \mathrm{W}$

## FINISHING KITS

Electro-Voice kits make it easy for you to obtoln profes-slonal-llke furniture finishes. These kits, prapared espo. cielly for the home finisher, ore complote with stain, fil lor, sealor, sholloc, high gloss and satin varnishes, finish. ing paper, brushes and simple easy-to-follow Instructians. Available In the following finishes. Shpg. wt., 5 lbs. Stock Mir. Stock Mir. No. No. FInsh No. No. Plnish
G5-is FKiO Walnut FK40 Chorry $\begin{array}{llll}\text { G5-43 FK10 Walnut } & \text { G5-46 FK40 Cherry } \\ \text { G5.44 FK20 Cordavan } & \text { G5.47 FK } 50 \text { Golden Ook }\end{array}$ G5-45 FK30 Mohogany GS-48 FK60 Ebony

## THE LINDON

Shalf.type cobinot, designed to moteh $8^{\prime \prime}$ high fidelity spoakert. Wood groin finish with brushed brass and dis. tinctlve resoker boord fobrics. Finishad on oll four sides. Sturdy construction of heary plywood, Speoker mounting board is precuf for on $8^{\prime \prime}$ driver loudspoaker. Procut ports purmit effortless addition of the HF .1 . Size $11^{\mathrm{m}} \mathrm{hlgh} x$ $231^{\prime \prime}$ wide $\times 10^{\prime \prime}$ deep. Shpp. wt., 16 lbr .
GB-39WX Mohog. ......... 5.00 Down ........... Nol 33.81



## THE CORONET

The Coronet adopts ideolly to use as an econamical sterec speoter ustem or os o socond channal for other E.V ppoaker urstom or as o socond chonnel for oiher E.V poaker syitems. Exionds and enhances bass respone bolow 70 lpa to beyond, adibllity selected hardwood Response: 70 cPB to beyond audibility. Solected hardwood
 Enclosure only.
G8.9WX Mahog ........... 5.00 Down ........ Not 34.79 GB.10wx Ook ……......... Net 34.79 Ge.1IWX Wolnut ........ 5.00 Down ........ Net 34.79

## CORONET 1 A

Includes Model SP8B, T358 VHF Driver, X36 crossover, Af37 level control, wiring harnass, completaly wired and installed in Corenet enclosure. Shpg. wi., 38 Ibs. GB-12WX Mahog ........ 10.00 Down ........ Nol 99.96 GB-13WX Ook ............. 10.00 Down ............. Net 99.96 GB.14WX Walnut ….... 10.00 Down ........ Net 99.96

## BARONET

True folded-horn corner enclosure extends bass ronge by two full octoves. Designed for use with SP8B $8^{\prime \prime}$ Rodox reproducer, Selected hordwood veneers. Sizei $25 y^{\prime \prime} \mathrm{H}$ $16^{\prime \prime}$ W. $12^{\prime \prime}$ D. Shpg. wt. . 40 Ibs.
GB-27WX Mahog ……... 5.00 Down ............ Net 44. 10 GB-28WX Ook ........... 5.00 Down ........... Net 48.02 G8-20WX Walnut ........... 5.00 Down ............ Not 48.02

## BARONET III

Includes Model SPBB $8^{\prime \prime}$ full-range cooxial loudspoaker, E.V T35B VHF driver, X36 crostover network and AT37 loval centrol, mounted, wired and instalted. Shpg, wi.. 54 lbs.
GB.JOWX Mohog ........ 10.95 Down ........ Net 109.27 G8-31WX Oat …… 11.30 Down ........ Net 113.19 G8.32WX Wolnut ........ 11.30 Down ........ Not 113.19
"DO-IT-YOURSELF" ENCLOSURE PLANS
Eosy to follow Instruction books tell you how to build the $\mathrm{E} . \mathrm{V}$ high fidelity onclesure of your cholce. Cloor, conciso. detaila and lllustrations.
AK. 1036184 Regeney Instruction Book...................Not. 98 BK-1037 186 Aristocrot Instruction Book

Not .98
Nof 98 BK-1038 187 Barenot Insfeuction Book..

Net .73

## THE LORAINE

A folded horn corner enclosure. Mode of heovy. $\% / /^{\prime \prime}$ plywodd throughovt. For 12" speoker and. Installotion of the HF. 1 ond MF. 1 kit! for 3 -woy speaker performonce. Pre-drilled mounling holes occommodote the speaker lever controls. Includes adopter ring for $8^{\prime \prime}$ loudspeakers, and removable bass cleats. $27^{\prime \prime} \mathrm{H}, 20^{\prime \prime} \mathrm{W}, 14^{\prime \prime} \mathrm{D}$. Shpg. wf., 23 lbs.
GB-42WX Mohog. ........... 3.00 Down ............ Not 47.04
GB-43WX Blond ............ 5.00 Down ............ Not 47.04 GB-44WX Wolnut ........... \$.00 Down ............ Not 47.04

## THE ARISTOCRAT

Enclosure of distinction for ony full-ronge $12^{\prime \prime}$ spookter. Unusually 3 mooth reproduction down to 35 cps. Selocted hardwood veneors. Brushed brabs grille. Sizes: 29\%" H, $10^{\prime \prime}$ W. 16.5/16"D. Shpg. wh., 44 lbs. GE.15WX Mohog $\quad$ 7.O.
 GB.17wx Wolnut .i....7.75 Down......... Not 77.42

## ARTISTOCRAT III

Includes E.V deluxe 12" 3.way systom completely wired ond instolled in Aristocrof enclosure. Shpg. wi.. 74 lbs. G8.18WX Mahog. ......... 30.60 Down ........ Nai 305.76 G8-19WX Oak ……... 31.25 Down ……... Not $\mathbf{3 1 2 . 6 2}$ GB.20WX Walnut ......... 31.25 Down ............ Not 312.62

## MARQUIS

This olongethe-wall pype enclosure utlizes the proven principle of increased reflected speaker inductance. EIfi. ciency below the 100 -cycle point is increased by neorly $\mathbf{~} 0 \%$. For $12^{\prime \prime}$ speokers, or 2. or 3-way system without modification. Response down to 40 cps. Selected hord wood veneers. Srushed bross grlll Sizes $29 \%$ H x $19^{\prime \prime} \mathrm{W} \times 141 / \mathrm{m}^{\prime \prime} \mathrm{D} .5 \mathrm{Spg} . \mathrm{wt}^{\prime}, 50 \mathrm{lbs}$.
G8. 21 WX Mohog …… 6.17 Down .......... Net 61.74 G8.22Wx Ook ……....6.75 Down ........... Not 67.62 G8-23WX Walnut ….... 6.75 Down ........ Net 67.62

## MARQUIS III

Includes E.V deluxe $12^{\prime \prime} 3$-way system completely wired and installed in Morquis enclorure. Shpg. wi.. 85 lbs. G8-24WX Mahog …… 29.70 Down ….... Net 296.94 G8-25WX Ook ............ 30.30 Down ........... Net 302.82

## DECORATIVE TRIM KIT

Addition of theso custom grille and trim sots will provido Addition of those custom grilie and trim seis KKS For KD 4 Regency-lacquered antlque brushed bras crossbar grille cut for sight-size of $24^{\prime \prime}$ by $29 \%{ }^{\prime \prime}$. Shpg. Wi. 3 ibs.

Not 5.88
AKठ. For Arlstocrat grille. similar to above, but smaller size. Shpg. wt., 3 ibs

Not 4.70

## THE LANCASTER

Enclosure utilizes the reoctive boffle principlo to obtain full response from ony 12" speoker. Designed for olong. the-wall use, finished on all four sldes, $1 / \%^{\prime \prime}$ plywood ond flooting reor boffle. Pre-cut ports occommodate the MF. 1 and MF-1 for 2- or 3.way performance. Includes $8^{\prime \prime}$ speoker odopter and two cleot legs. $20^{\prime \prime} \times 14^{\prime \prime} \times 25^{\prime \prime}$. Shpg. wf., 24 lbs.
GB-45WX Mohog.
G8-46WX Blond. G8.47 WX Wolnut …........ 5.00 Down .............. Net 47.04 G8-66 Accessory leg kit........................................ Net 7.84
5.00 Down ............ Net 47.04
5.00 Down 47.04
5.00 Down ............. Net 47.04
Net 7.84

## "WOLVERINE" CUSTOM STYLED ENCLOSURES FOR SHELF, WALL OR CORNER




## SERIES 100

University's new Series 100 wide range speakers ore engi nested to the highest spacificotions from the finest mote riols avalloble. Identified by their attractive exteriorsmafte block baskets ond chrome silver dust covers-ther represent the most outsonding volues in the high fidelity field. Once again, University proves that quality does not necessarily mean high prices.

Model UC. $15315^{\prime \prime}$ 3.Woy Olfaxial Feo ures high efficiency tweoter ond delure, multi-element Difinsicone mid ronge. 2 lb. oll. Alnico $\$$ magnet. Response from below 30 cDs to ingudiblity. 10 wats ca:ing. 8.16 ohms. Shpg. wi. 12 lbs

GS. 100 WX
8.13

Net 81.34

UC. 152 15" 2-Way Olfoxial Potented Difusicane ele. ment crovides dual harn loading of open of cone to extend mid and high frequency response. Excellent wide-ongle dispersion of highs. $11 / 2 \mathrm{Ib}$. all. Ainico 5 magnet. Response from below 30 to 14,000 eps. 30 wotls roting. 8.16 ohms. Shpg. wi. $81 / 4$ lbs.

GS.101wX
5.00 Down

Net 44.10

Model UC- 123 12" 3. Woy Olfaxtal Exclusive sectional Difusicone flement. Uxt. 5 superiweeter with 'recipro. coting fare" horn. Super-sensitive all-Alnico 5 moznal Crosses over of 1000 cps mechonically, 5000 cDs electri. cally. Reiponse belaw 45 cps to 17.500 cps. 25 watts raling, 8.16 ohms. Shpg. wf., 9 lbs.
65. 102
6.47 Down

Net 65.17

Model UC-122 12*2-way Olflamial Coaxiol horn lood ing of open of cone extends mid ond high frequency ie. sponse. Enclusive uni-sectionol Difusicone element provides 1000 cps mechanical crossover ond uniform widerangle dispertion. Super-sensitive oll-Alnico 5 mognet. Responses $45.13 .000 \mathrm{cps}, 25$ walts rating. 8.16 ohms. Sheg. Wh., $51 / 4 \mathrm{lbs}$.

G5. 103
5.00 Down

Net 34.79

Madel UC. 121 12" Exfended Ronge Only 4" deep perfeat for woll and other limited space instaltaltions. Highly efficient. 1 Ib. All.Alnico $g$ magnet. Response: $45.10,000$ cps. 300 watts rating. 8.16 ohms. Shpg, wit $51 / 4 \mathrm{lbs}$.
65. 104
5.00 Down

Nel 27.44

Model UC. $828^{\circ "}$ Wide Ronge Newt Especlally deslgned for small cobinef sferea opplications. Ideal for later addiion of one Universily dual vaice coil woofor to entend combined bass range of both channels. Atso effective as secand channel or stereo orttan speoker. All-Alnicos 5 mognet. Response: $45.14,000$ cps. 25 wolts poting. 8.16 ohms. Shog. wt., $31 / 8 \mathrm{lbs}$

## GS. 105

Not 16.61

## OTHER SUPERB WIDE-RANGE SPEAKERS

Model $315-C$ Super 15 " 3.Way Dificial Woofer pep. formance equivalent to C.I5W. Difisuicane mid-ronge has $1000 \mathrm{cps} \mathrm{crossover} \mathrm{} .\mathrm{Heouy} \mathrm{duly} \mathrm{M-} \mathrm{600} \mathrm{;} \mathrm{T}$. ovet at 5000 cDs. Built-in $I / C$ network with midionge and treble controls. $61 / 3$ lbs. of all.Alnico 5 magnet. Re sponse from below 25 cps to inaudibility. 50 wotts rating 8.16 ohms. Shpg. wl. $341 / 2 \mathrm{lbs}$

GS.106WX
15.29 Down

Net 152.88

Madel 31212 3-Way oifanial Completely engineered pochage with HF-206 iweeter "Irueanially" proiected. Difinsicone mid-range. Built-in $I / C$ network with treble control. Crossovers at 1000 and 5000 cps 2 lbs , of all. Alnico 5 magnet. Responie from below 40 cps to Inaudibility. 25 wolls rating. 8.16 ohms. Shpg. wf., 11 lts
65. 107
7.15 Down

Net 71.54

Madel 6201 12" Dual Range Cooxlal Iweeter ppojects through center of woofer. Built-in $L / C$ neiwork with bal. once confral. $1 \mathrm{l} / \mathrm{lbs}$. of oll-Alnico 5 magnef. Responses 45.15,000 cps. 25 woll raling. 8.16 ohms. Shpg. wr., $10 \% \mathrm{lbs}$.
65. 108
5.66 Down
Nel $\$ 6.60$

Oifusicane-12 12*2.Way Offaxial Employs patented mulfi-element Diffusicone with 1000 cps crassover. Re sponse from below 40 CDs to 14,000 cps. 30 watts rating $11 / 2 \mathrm{lbs}$, all-Alnico 5 mognth .816 ahms. Shpg. wi. . 6 lhs. 65.109
5.00 Down

Net 38.95

Madel $1088^{-1}$ 3.Woy Olfozial Compression iweutep proiects through center of woofer. Wide-ongle horn em. plays "resipracating Aare" ppinciple. Diflusicone mid. ronge. Esiro large woafer vaice cail. $11 / 4 \mathrm{tbs}$. of oll-Alnico 5 magnet. Respanse: $40.15,000 \mathrm{cps}$. 25 watls roting 8.16 ohms. Shpg. wi. 6 lbs.
GS. 110
5.00 Down

Ne1 1.16

Diffuslcane-8 8" 2.Way Olfaxial Patented mulfi-ele ment Diffusicone provides 1000 eps mechonicol crowsover Respanse from 40.13 .500 cps . Full pound of all.Alnico mognet. 25 watts rating. $8-16$ ahms. Shpg. wf. $4 \frac{1 / 4}{}$ lbs 65-111
5.00 Down

Nel 27.44

## OTHER <br> SUPERB <br> WIDE-RANGE SPEAKERS

Page 34

oitusitone. 12




## TMS. 2 'TRIMENSIONAL' STEREO SYSTEM

The TMS. 2 is designed io ufllize the ocousticol properties of the surrounding wolls of the listening room. Features the C-12 NC wooter (exclusive dual voice cail). Speciolly designed seporate mid-range and lweeter units for eoch chonnel project sound from the sides of the cobinet. By odiusticg the deflector doors, the omount of stereo spread lionce" controls ore provided. Size: $30^{\prime \prime}$ wide, $25^{\prime \prime}$ high, $121 /{ }^{\prime \prime}$ deep. Shpg. wi., 92 lbs
GB-100WX Mohogony … 25.28 Down .... Nel 252.84 GB-101WX Wolnul …… 25.77 Down ...... Nel 257.74 GB-102WX Blonde ....... 25.77 Down ........ Net 257.74
'Early American' IMS-2. Some os obove, but hondcrofled in rock mople with o fine furniture frvitwood fin ish. GB-103WX .......27.54 Down .......... Nel 275.35

ULTRA-COMPACT HIGH COMPLIANCE SYSTEMS

## IN FAMED RRL ENCLOSURES

Model 5-105 12" Ulira Linear Respanse system Achieves oulstonding performonce from 30 cps to inoudibility. Separole bass and brillionce controls. Con. sists of one $\mathrm{C}-12 \mathrm{HC}$ wooler, UL/HC tweeter and HC-2 nelwork. $8-16$ ohms. Size: $25 \times 14 \times 141 / 5^{\prime \prime}$. Shpg. wi., 51 lbs.

| FINISH | HIGHBOY | LOWBOY | NET |
| :--- | :--- | :--- | :--- |
| Mohogony | GB.94WX | GB.97WX | 150.92 |
| Blonde | GB.95WX | GB.98WX | 154.84 |
| Wolnut | GB.96WX | GB.99WX | 154.84 |

154.84

MOOEL RRL-12 12" 3-SPEAKER RRL SYSTEM Offers reolly big, full-ronge performonce. The $12^{\prime \prime}$ High Complionce Woofer extends pesponse below 35 cps . The University Sphericon Super Tweeter provides smooth response 10 inoudibility. The $31 / 2$ direct rodiotor speoker ppovides mid-ronge response. Power roling: 40 wolls. $8-16$ ohms. Size: $25 \times 154 / \times 12 \frac{1}{2 \prime}$. Complate with vorioble brit. lionce confrol. Finished on 4 sldes, Shpg, wl., $381 / 8$ lbs G8-113WX Mohogony .... 11.76 Down .... Nel 117.55 GB-114WX Wolnul ... 12.15 Down ....... Nei 121.47 GB. $115 W \mathrm{X}$ Limed Ook 12.15 Down.... Net 121.47 G8.116WX Oiled Wolnul ... 12.34 Down .... Net 123.43 GB-117WX Unfinished .... 11,27 Down .... Ne1 112.65 Model RRL-8 $8^{\prime \prime}$ 3-Speaker RRL System Tha oll new RRL. 8 speoker system is o superb avolity unit of omozing compociness ond moderote price. Ideol for stereo. Com. ponents consist of $1.8^{\prime \prime}$ High Complionce woofer and 2.3 $1 /{ }^{2}$ direct radialor iweeters. Power rating: 30 wotts. 8.16 ohms. Complete with voriable brilliance control Size: $22 \frac{1}{4} \times 12 \times 10.5 / 16^{\prime \prime}$. Finished on 4 sides. Shpg. wi. 28 lbs.
GB.10BWX Mohogony .... 9.75 Down .... Nel 97.51 GB-109WX Wolnut 10.05 Down..... Net 100.45 GB-1 10WX Limed Ook … 10.05 Down... Net 100.45 G8. 111 WX Oiled Wolnut ... 10.34 Down. Not 103.39 GB-112WX Unfinished ... 9.36 Down ... Net 93.59
Model 5-55 "Senior" 12" 3-5peoker System Spoce. soving, self-contoined horn-looded highboy. Consisis of one C. 125 W , one $\mathrm{M} \cdot 600 / \mathrm{T} .30$ mid-ronge, ond one UXT-5 Iweeter, and N. 3 notwork. $8-16$ ohms. Size: $30 \times 211 / 3 \times$ $15 \%{ }^{\prime \prime}$. Shpg. wf., 72 lbs
G8-127WX Mohogony ... 21.07 Down ... Net 210.70 G8.128WX Blond 21.56 Down ...... Not 215.60 G8.129WX Wolnul 21.56 Down Net 215.00

Model EN- 12 Enclosure only, For ony University 12 peaker or mulfi-speaker system, Size: $30 \times 21 \times 15 \%$ Shpg, wl., 60 lbs
GB-130WX Mohogony 7.45 Down Nol 74.48
GB-132WX Wolnut
7.79 Down

Not 74.48 GB-133WX U.79 Down Ne1 77.91
Model 5-3TM "Jiny Mite" 8 " system Modestly priced diminutive combination of onceptionol high fidelity per formonce. Consists of one $3088^{\circ}$ speoter in TM. 812 en closure. Size: $21 \frac{1 / 4}{} \times 15 \frac{1}{2} \times 12 \frac{1}{2}, 8.16$ ohms, Shps. $w$.., 32 lbs,
GB-134WX Mohogony 8.55 Down Nel 85.51 GB-135WX Blond 8.85 Down Net BB,45 GB-136WX Wolnut .. 8.85 Down ..... Net 88.45
Model TM-812 Enclosure only. Moy be used with ony $8^{\prime \prime}$ or $12^{\prime \prime}$ wide-ronge speoker. Size: $21 \frac{1}{4} \times 151 / 3 \times 12^{1 / 3^{* \prime}}$ $8^{\prime \prime}$ or $12^{\prime \prime}$ wido-ro
Shpg. wt. 26 lbs.
GB-137WX Mahogony 5.00 Down ...... Net 42.63 GB-137WX Mahogony 5.00 Down ....... Net 42.63
G8-138wX Blond 5.00 Down ...... Net 45.57 8.138wX Blond ... 5.00 Down ....... Nel 45.57 GB-140WX Unfinished 5.00 Down...Net 37.00 Model 5-80 2.Way High Eftiency System the oll new 5.80 2.woy, high efficiency speoker system is mod estly priced, compoct, and hos excellent wideronge re ponse. Components consist of $1-8^{\prime \prime}$ C.8W woofer, and $1.31 / 3^{\prime \prime}$ direct rodiotor Iweeter. Impedonces 8.16 ohms size: $211 / 4 \times 11^{1 / 2} \times 91 / 4$. Finished on 4 sides. Shog, wt, 17 lbs.
G8-104WX Mohogany
E-105WX Wolnul
GB-106WX Fruitwood
8-107WX Unlinished 5.58 Down
Net 58.75
(EN-1215 "Debonalic" Enclosure Smollest low boy that can toke $12^{\prime \prime}$ or $15^{\prime \prime}$ speokers, or multi-spooker system. Employs phose inversion principle 10 ougment low requency response. Size: $27 \%=25 \% \times 10^{\mu}$. Shpg. $w 1 ., 56$ lbs.
GB-141WX Mahogony … 6.17 Down .... Net 61.74 GB-142WX Bland …… 6.76 Down Net 67.62 GB-143WX Wolnul ….... 6.76 Down ........ Net 67.62


## "ADD-ON" STEREO SPEAKERS

The University Stereoflez ond Medel SLC double horn loaded "add.an" speokers permif the user to achiove full high fidelity steroaphanic reproduction with the greatest floxibilisy ond economy of spoce. Each hos been designed to motch the tonal quality of even the most ambltious full.range system.

## How to use University <br> "Add-On" Speokerss

With madels 5-105 and 5-55, simply canneat directly to the rear terminal boord of the main iystem. (Alio with ony provlous University system donoted by suffix "s".] ony provlous Univarsity system donoted by suffix her dual voice call woofer systems, factory or homeOther dual voice coll woofer systems, factory of homekit. Systems with conventional (single volce coil) wootert kit. Systems with conventio

STEREOFLEX-1. A $6^{*}$ low frecuency driver foces the rear of the enclosure, which forms a balanced "compression" front leoded folded harn. A seporately drivien horn looded iweeter foces farward with crossover of 2000 cps. Respanse from $150-15,000 \mathrm{cps}$. Housed in a handiome waodon cobinet with fine waven grille cloth. Occupios less than on cubic foot. 8 ohms. Shpg. wt., $16 \mathrm{~h} / \mathrm{lbs}$.
GB-121WX Mohogony …… 5.34 Down ........ Net 53.41 GB-122WX Walnut 5...... 5.54 Down ......... Net 55.37 GB-123WX Blond ........ 5.54 Down ........ Net 55.37 Madel SLC-Same ocoustic design as Stereoflex. 1 but with charcal gray fiberglass housing, gold anodized prille and stand. Size: $11 \frac{1}{2} \times 12 \% \times 10 \%$ ". Shpe. wi., 10 lbs.
G8-148WX
5.00 Down

Net 42.63
STEREOFLEX-2-A slim. elegont unit designed for floor placoment. Makes on excellent end table. Double horn loaded, with heovy duty compression driver ond extended oir column for mid-ronge from 150 cDs . The wide ronge iweater has a frequency response to beyond oudible limis. Complote with o "brilliance" control. 8 ohms. Shag. wt., 40 lbs.
Gs-124WX Mohogany .... 10.78 Down .... Net 107.80 G8-126WX Bland …… 11.07 Down ....... Net 110.74


Above are two approaches to stereo speaker systems, each using a dual voice coll woofer. The unshaded area shows how one Stereoflex-1 would be combined with a full-range monophonic system. The en. tire picture shows a palr of Stereoflex-1's flanking the woofer installed by itself in its enclosure.


## Exclusive Stereo Feature THE DUAL VOCEE COIL



These four terminols shown obove leod to on exclusive University feoture... THE DUAL VOICE COIL... Iwo electricolly seporote voice coils on a single woofer that provide perfect boss from both stereo chonnels, without the need for expensive or complicoted stereo odopter networks or "control" filters.
This means the tonol mognificence of University stereo odopted speaker systems con be perfectly motched for stereo with sole addition of on inex. pensive, compoet stereo "odd-on" speoker, or other suitoble limited range speoker. This is possible becouse stereo effect is created lorgely by frequencies obove the nominol bass pange.

## HOW UNIVERSITY DUAL VOICE COIL WOOFERS WORK

Voice Coil A of the woofer receives the full bass from one stereo channel. Voice Coil B receives the full bass from the other channel. Then ... exactly os done in two woofer stereo systems . . . both bass signals are blended outomotically. Result: outhentic, balonced, full-bodied bass thot will give you the enduring sotisfoction of superb stereophonic sound.


MODEL S-9S 15" UNFINISHED "CLASSIC" 3-SPEAKER CONSOLE SYSTEM
An impressive system that's ideol for deluxe home installations theotres, of other professional vis. Versatile self-contained ond frontloaded horn. Use aither horizontally or vertically. Consisis of one C-ISW wootor, one Cobrollex/T-30 mid-range ond one HF. 206 twoeter. With N-3 network. Sizer $401 / 2$ ¥ 31 h ₹ $23 \%$
Shpg. wi. 170 ibs.
GB-144WX
Model EN-CB Unfinished "Classic" Enclosure
Inctudes oll hardwore for mounting speokere. Model S.is components recommended. Size: $40 \% \times 31 \mathrm{~h} \times 23 \mathrm{k}{ }^{\prime \prime}$. Shpg. wt., 135 lbr
G8.145WX 11.76 Down Nol 117.60
KWIKITS MODELS KEN-1S AND KEN-12
Self-contoined folded horni for plocement onywhere in room Includes everything noeded to assemble avickly. Only screwdriver required Heavy $\%$ " first grode lumber with genuine veneers.

Design similar to EN-12. Ken-15. For ony $15^{\prime \prime}$ or $12^{\prime \prime}$ wide-range speoker, or 2-or 3-speaker system. $12^{\prime \prime}$ boord sold soporately. Sizei $35 \% \times 29 \times 181 /{ }^{\prime \prime}$. GB.146WX $\quad 5.83$ Down Shpe. Wt........... 58.38 . GB-149W Adopler Boord for 12" speaker. Shpg. Wf. 3 ${ }^{\text {lbs. }} 50$ Kon-12. For any 12" wide-range poeaker, or 2- or 3-speaker iystom with H- $600 / \mathrm{T}-30$ mid-ronge; Size: $291 / \mathrm{x} \times 21 \mathrm{Y} \times$


## Jensen High Fidelity Loudspeakers and Components



The new Jensen line of unitary loudspeakers oters for the nrat lime a complete range of typer and slzes to meet every merformance and budget requirenuent．Many have remark－ able cost advantames over ireviously avallable sinilise speakers；In each case，akilltul dealgn and advanced manufacturing methods have resulted in more berformance
authontic high fidelty by densell ．．at lower cost．

## TRIAXIAL AND TRIAX 3－WAY SYSTEMS

The tainous Jensen G－610A and new G－600 are genutne 3－way systema，the only speakers with three clectificuly and scoustleally Independent L－F，M－F and H－F channela for utmont balarice，eftictency．smonthness and ranke extension to upper hearing IInith．M－F
 and whe ankie dispernion of hishn，separate dusi erossover network．MoF and H－F

## COAXIAL 2－WAY SYSTEMS

Jensen＂ 1 ＂and＂K＂．Serles Coaxtals are genuine 2 －way with electically and acoustically Independent＂wsoter＂and＂I weeter＂．＂K＂Serles usen direct radlator cone type＂tweetery＂ for a inaximum of value at low cont；they have integral elecirical croksovers．KTX－2 Step－Ulp KIt will later provide combresslun－diliver higha above 2000 c cis．＂ $\mathbf{H}$＂Serioe ia dealigned for ultimate coaxial verformance：they employ the expensive through－bore come presson－driver＂tweeter＂for maximum 2－way aystem herfornannce and low cronsover frequency（ 2000 epm）．Full I－C erussover network．KTX－1 Step－UD KIt may be added later for range extension to upper hearing linit．

## COAXIAL J－ELEMENT SYSTEMS

＂CX＂serten suceakers are a comblnation of a compresstion driver supertweeter and a 2 －element direct－radlator wooter－mild－channel．Electica！crossover is at 4000 eyclea． Sinall diffuston radiator disjersits and balancen padiation from 2000 to 4000 epa．Three terminals for easy wiring of KTX－3 step－Up Ktt for later converston to full 3－wiay syatern with compression driver inld－channel．A＂best buy＂for pertormance Intermedtate between DUAX and＂H＂Serlea coaxials．

## DUAX 2－LLEMENT SYSTEMS

＂DX＂Serien mpeakers have two carefully coordinated cones ditiven by a stagle volec coll． Both operate together up to a＂mechanleal efonsover＂at $\mathbf{t 0 0 0} \mathrm{cpss}$ ：the small H－F radlator is enective above 4000 eps．May be expandell to 2 －way system with compreselon delver ＂tweeter＂with KTX－2 ster－Up Kit

## UNAX SINGLE ELEMENT LOUDSPEAKERS

A new hagh in single－cone atnate volce coll mpeakeps with performance exceeding that of somp apeakers conting far more．Cone is specially deatgned so central mector radiatef moothly and effelently at high frequencfes．Viscous edge daniping．KTX－2 stej－L゙p Kit may be sulded to make 2 －why syatem．

| Stock Ne． | Model a Doscription | Stze | Frequancy flange | $\begin{gathered} \text { Tmpod. } \\ \text { ohms } \end{gathered}$ | $\begin{aligned} & \text { Power } \\ & \text { Railng } \end{aligned}$ | Weqnot | $" \operatorname{stop}_{\mathrm{Ktt}}$ | Shipping weight | Not |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 65-275 w x \\ & \text { cs-276wx } \end{aligned}$ | G610 Frion 3 Woy $G 600$ Trior 3 Way | $\begin{aligned} & 15^{\circ} \\ & 15^{\circ} \end{aligned}$ | $\begin{aligned} & 25-\mathrm{UHL} \\ & 30-\mathrm{UHL} \end{aligned}$ | $\begin{aligned} & 16 \\ & 16 \end{aligned}$ | $40 \mathrm{w}$ | $6 y$ Ibe． 35 Itan． |  | 46 Ibs． $36 \times$ Itm． | $\begin{array}{\|} 252.75 \\ 114.50 \\ \hline \end{array}$ |
| 6S－277 | H222 Coox 2 Way | 12＊ | \＄0－15，000 cga | 18 | 25 W． | 14／1be． | KTX－1 | 13 Ibs． | 62.50 |
| $\begin{aligned} & 65-278 \\ & 65-278 \\ & 65-2180 \end{aligned}$ | K． 318 Coox 2 Way K． 210 Coox 2 Woy K－ 80 Coax 2 Way | $\begin{aligned} & 15^{\circ} \\ & 12 \\ & \hline \end{aligned}$ | 40－14．000 cूs 45－14．000 cim 50－14，000 еін | $\begin{gathered} 16 \\ 8 \\ 16 \end{gathered}$ | $\begin{aligned} & 16 \mathrm{w} \\ & 14 \mathrm{w} \\ & 12 \mathrm{w} \end{aligned}$ | $\begin{aligned} & 8 \mathrm{lb} \\ & 1 / \mathrm{bb} \\ & 1 \mathrm{lb} . \end{aligned}$ |  | 12 lba <br> 7 1 bs. <br> 4 jba | $\begin{aligned} & 19.75 \\ & 77.50 \\ & 7 \end{aligned}$ |
|  | CX． 255 Coox 3 －Elomt． EX－ 550 个00x 3. Elemi． Cx－225 Coor J．Elemi． <br> Cx． 120 Cogx 3－Elemt． | $\begin{aligned} & 15^{\circ} \\ & 15 \\ & 12 \\ & 12 \end{aligned}$ | 30－15，000 сри 30－15．000 ери $30-15.000 \mathrm{~cm}$ $30-15.000 \mathrm{cp}$ | $\begin{aligned} & 16 \\ & 16 \\ & 16 \\ & 16 \\ & \hline \end{aligned}$ | $\begin{aligned} & 27 \mathrm{w} \\ & 25 \\ & 22 \mathrm{w} \\ & 20 \\ & 20 \end{aligned}$ | $\begin{aligned} & \text { T/4bo. } \\ & 1 \times 1 \mathrm{~b} \\ & 1 \times \mathrm{bm} . \\ & 1 \mathrm{lb} \end{aligned}$ | $\begin{aligned} & \text { KTX-3 } \\ & \text { KTX-3 } \\ & \text { KTX-3 } \end{aligned}$ | 134 ibe． 12. lba． $10 \%$ thes． 04 lba． | $\begin{aligned} & 67.58 \\ & 86.56 \\ & 52.50 \end{aligned}$ |
| c5－38 | $\begin{aligned} & \text { DX: } 150 \text { Duax } \\ & \text { DX. } 120 \text { Duax } \end{aligned}$ | $\begin{aligned} & 15^{\circ} \\ & 12^{\circ} \end{aligned}$ | $\begin{aligned} & 40-13.000 \mathrm{cp} \\ & 40-13,000 \mathrm{cp} \end{aligned}$ | $\begin{aligned} & 16 \\ & 16 \end{aligned}$ | 20 w ． | $\begin{aligned} & \mathrm{i} \text { ib. } \end{aligned}$ | $\begin{aligned} & \mathrm{KTX}-2 \\ & \mathrm{KTX}-2 \end{aligned}$ | 11 76468. | 35.50 27.50 |
| $\begin{gathered} \operatorname{cs}-287 \\ 6 s-28 \end{gathered}$ | UX． 120 Unax UX． 80 Unax | $12$ | $\begin{aligned} & 10-12,000 \mathrm{clom} \\ & 50-12,000 \mathrm{cD} \end{aligned}$ | $\begin{aligned} & 8 \\ & 8 \\ & 8 \end{aligned}$ | $14 \text { w }$ | \％ 16 | KTX-2 | $\begin{aligned} & 3 \mathrm{l} \text { lts. } \\ & \text { ithe. } \end{aligned}$ | 17.95 |

$\dagger$ High energy DP－Alalco－5．\＆Reaponge to Upper Hearing Limit．Noter Low frequency reaponse depends on encloeure．


NEW P8－QF FLEXAIR WOOFER

Newest FLEXAIR woofer with high compli ance and long，linear travel．．．a full $4^{\prime \prime}$ Pravides mooth，low－distortion bass down to 36 eycles in a＂baakihalf＂＂size anclorure． Use with P35－VAH or $\$ \mathrm{P}-103$ tweeter．Cross． over， 2000 cycles．Power reling， 25 walls ov－ erage pragram．Magnel $\mathbf{w l}$ ．， $1 / 4 \mathrm{lb}$ ．Alnice 5． 16 ohms．Shpg．Wi．，51／4 Ibs．
GS－296 ．．．．．．．5．00 Down 22.50
NEW DXF－80 8＂2－ELEMENT
 HIGH FIDELITY SPEAKER

A brand now hiffi speoker with extremely long travel and linear high．compliance made Dossible by Jensen＇s FIEXAIR principle．Ex． cellent for stareo or mono syitem．Cican boss to below 36 cyeles in compact＂boakshelf＂ size onclosures．Auziliary radiator extends response to 14,000 cycles．\％／Ib．of high of． ficiency Alnico 5 mognet．Power raling： 20 walli program moterial． 16 ohmi．Shpg．Wi． $51 / 4$ lbs．
GS－297

5．00 Down …… Net 24.50 STEP－UP KITS


KTX－1 SUPER TWEETER KIT
Consists of RP． 302 supertweeter，A． 402 net． work，and ST－901．control．Power rating， 35 watts．Impedance 16 ohms，Sheg．Wi． 5 lbs GS－293 5．00 Down Net 33.75

## KTX－2 TWEETER KIT

Consists of RP－103A iweeter，A－204 network． and ST．901 control．Power sating， 30 watts impedonce， 8.16 ahms．Shpg．Wi． 7 lbs ． C5－294 …… 5．00 Down ．．．．．．．Net 32.50

## KTX－3 MIDRANGE KIT

Consists of RP． 201 midrange unit，A． 61 net work，and ST－917 control．Power roting， 35 waths．Impedance， 16 ohms．Shpg．Wi．， GS－295

6．25 Down
Net 62.30

## JENSEN A－1060 MANUAL

A guide to kit telection and enclosure can struction．Describes Bass－Ulirallex，bockload－ ing ond Folded．Marm enciasures in comploie delail，with aploded views and simolified wiring Insfructions． 36 poges．Shpg．wh． 12 os．

## NEW 2－WAY SYSTEM COMPONENTS

Ideot for inexpensive 2 －way systems．A choice of compression－driver RP－103A or direct rodigtor P35．VAM tweeters is avall． oble，ither of which moy be used with P12．RL（12＂）or P8．RL（ $8^{\prime \prime}$ ）woafers far a molched system．For ecessover uie mmf．copocitar or A． 204 notwork


PE－EL WOOFE


I＇ower 20 whtis．sin－3ina eps．
 4．1）：Culuut 89 ：d dameter
enelosure

## 0



RP－103A TWETTE （Comifrestlon harn iygu．Ioower


先

Wratts， $2010-14000 \mathrm{cbm}$ Inve． 16
ohans．Nize： $34^{\circ} 11$ W． 24. 616.
6592

## LATEST Jensen HI-FI SPEAKER SYSTEMS



JENSEN STEREO DIRECTOR SYSTEMS
STEREO DIRECTOR AND HOW IT WORES-To overcom problems of placement of speokers jensen hos developed o mothod whereby the difective elements of the speoker sys tem (high freavency speokers) are mounted on o separate Chossis (within the enclosure) thot may be roloted. In thit woy, the speoker enclosures may be ploced in a position most canveniont for decor, while the desired stereo effect may be obtolned by directing that portion of the spectrum which creotes the quality of stereo. This some control over the sound may alse be used in monoural applicotions

## COMPLETE REPRODUCERS

SS. 100 SINGLE J.WAY SYSTEM WITM STEREO DIREC. TOR - Serves os one section of o stereo system or os o monaural system to which additionol unit moy be odded loter. Twa $55.100^{\circ}$ s ore ideal far stereo, as its hexibility alus makes this cambination a notural. This slegant mode includes Jensen Boss.Super-hex enclosure, os illustrated, DC. 3 Stareo Director Chassis and KT-33 3-Way Speoker System Kit. A reor opening gives access ta the Stereo Director. Response is smooth from $20-15,000 \mathrm{cps}$. Impedance is 16 ohms, power roting 30 watts. Dimensions $3^{\prime \prime} \times 21^{\prime \prime} \times 1814^{\prime \prime}$. Shpg. wi.. 56 lbs.
Spocify finish-Walnut, Tawny Ash, Mohogany. 179.95 DS. 100 DUAL J-WAY SYSTEM WITH STEREO DIRECTOR - The D 5.100 duol stereo unit in the populor low. boy, is the onswer to the buyer's demand for a complete staree reproducer in one cobinet. This hondsomely styled loudspeaker system provides two completely independent 3. Way speoker systems (lotal of 6 speokers) which con be used rogether for a superior spread source of monophonic sound, os well os for steree. Open reor shelf gives occess to the steree Director. With the new Flenoir woofers this unit gives superb response from 20 to 15,000 cycles. Crossover frequencies ore 600 and $\mathbf{4 0 0 0}$ cycles. High sesnitivity allows adequale drive with a 10 watt amplifier. Imoedance 16 ohms each section, power rating 30 watts each Olmensions: $32^{\prime \prime} \mathrm{H}$ n $52^{\prime \prime} \mathrm{W}$ : $181 / 4^{\circ} \mathrm{D}$. Shpg. wf. . 125 tbs. Specify finish-Walnut, Tawny Ash, Mohogony.
GB-201WX ........... 36.95 Down Nef 369.50
CN- 100 3-WAY SYSTEM - Jensen offers this small scaled system whit "Floir Line" strling that goes well with any decor. The system consists of the BF- 100 Bass-Supertex enclosure, $12^{\prime \prime}$ Flesolr superlow-resenonce woofer, special $8^{\prime \prime}$ mid. channel and RP. 103 high fravency speokers for loon response fram $20.15,000 \mathrm{cps}$. Crossover freauencies are 600 and 4000 cps . Impedonce is 16 ahms; power rating 30 watts. High sensifivity ossures odequate drive fram 10 wott omplifier. Dimensions: $32^{\prime \prime} \mathrm{H} \approx 21^{\prime \prime} \mathrm{W} \approx 181 /{ }^{\text {" }} \mathrm{D}$. Shipping wt.. 65 lbs.
Specily finish-Wolnut, Tawny Ah, Mahogany. 149.50
G8-202WX TR-10 TRI-ETTE 3-WAY SPEAKER SYSTEM - A diminutive speaker system that is definitely hi-f in quality ond con serve os the main unit in the hame music system or as an oddion unlt for stereo. It moy be used os o hoor piece slanding vertically, on o table bose (57.945) or on o noor stand $\{57.944\}$, both of which are avoitoble. Meort of the Tri-etle is the now Flezoir 12" wooler with its super low free-alr resonance of 20 cycles ond high domping. The cobinet incorporotes the Bass superfex construction ond Fibreglass lining, giving a ronge of $25.15,000$ cos. with lowest possible distortion. Other speokers ore the speciol $8^{\prime \prime}$ mid-chonnel and RP. 103 A Tweeter which aperate of crossovers of 600 and 4,000 cDs. Impedonce is 16 ohms; power roting of 30 wotts: con be driven by 10 cleon wotts of power. Dimensions: $13 \%$ "H = $25^{\prime \prime} \mathrm{W}$. $111 / 8 \mathrm{D}$." Shipping wt., is ths.
Specily Itnish-Walnut, Towny Ash, Mohogony.
G8.203WX ........... I1.85 Down ............ Nof 119.50 TR. 10 srstem in unfinished plain rectongulor cobinet. G8-204WX ......... 8.95 Down ................ Net 89.50 ST.944 STAND-To mount TR-10 TRI-ETTE horizontolly for floor use. Specify finish-Walnut, fowny osh, mahog. for floor use. Specity
ony. Shpg. Wi., 8 tbs. Giy. Shpg. WI., 8 lbs. 12.95 57.945 BASE-For roble or shell une with TR. 10 TRI. ETPE. Specify linish-Wolnut, fowny ash, mohogany. ETTE. Specify lin Ghpg. W

## SPEAKER CABINETS

BF-200 CABINET for $15^{\prime \prime}$ SYSTEM (nof illustrated) Boss Superfex cobinet only. Ideal for ony $15^{\prime \prime}$ speoker such os G. $1610 \mathrm{~A}, \mathrm{G} .600$, eic. or speoker system kits KT 32 KT-34. KT.44. Moximum boss response. Dimension $30 \mathrm{y} / \mathrm{m}^{\mathrm{NH}} \times 341 / 2^{2 \mathrm{~W}} \times 181 / \mathrm{N}^{\mathrm{W}} \mathrm{D}$. Shipping wt., 77 lbs
Specify finish-Walnut, Tawny Ash, Mahogany
Specily finish-Walnut, Tawny Ash, Mahogany.
G8-207WX 129.75
BF-100 CABINET for 12" SYSTEMS - Incorporotes new coustical desion with tube - loaded port for unusual ex. ensian of low frequency range. Culouls provided on baffe or all proboble speoker arrangements. Dimensions: $32^{\prime \prime} \mathrm{H}$ $\times 21^{\mathrm{cW}} \times 18 \mathrm{k} /^{\prime \prime} \mathrm{D}$. Shipping $\mathbf{w 1 .} 41 \mathrm{lbs}$
Soctify finish-Wolnut. Iawny Ash. Mohogany.
G8-208WX

## SPEAKER SYSTEM KITS

KT-33 3 WAY SYSTEM KIT - Includes bosic speoker components in "knocked-down" form (shown assembled in Illustrotion, on DC-3 Stereo Director Chassis which is not included and which must be ardered separately): Flesair 12" wooler, speciol $8^{\prime \prime}$ mid-freavency unit, RP. 103 a com. pression high.frequency unit control, crossover nefwork. wiring coble, full instructions for building enclosure and installing speoker syslem. Impedance 16 ohms ; power rat. instaling speoker system. Imped ance
G5-298WX............. 8.00 Down
Net 80.00 KT-233 MATCHED STEREO TWIN KIT - matched poir of KT. 33 speoker kits and 2 DC. 3 Stereo Director Chossis plus mounting hordwore, to give complete matched stereo phonic systems ( 2 chonrels). Shlpping wl., 53 lbs.
GS-299WX 16.00 Down ................... Net 160.00
DC- 3 STEREO DIRECTOR CHASSIS-Chossls only. (shown with eqvipmont, in lllustration). Mounts mid-lrequency and high-frequency speakers of KT-33 io make a Stereo Direc or Assembly, os illustrated. Includes panel, bose, ossem bly herdmore and complete instructions shog wl. ibs cs. 300

Net 9.50
KT-44 4.WAY SYSTEM KIT - Includes botic speoker components in "knocked.down" form (shown ossembled in illustration, on DC. 4 Stereo Director Chossis which is not included and which must be ordered separalely): is in fles-air waofer 8 in upper low frequency speaker re fintront compression-driver mid-chonnel speoker ond new onirom compressionds netrol full instructions for building enciosure ond installing soeak. full instructions for building enciosure ond insioling speak. or system, Response is from 16 cps to beyond oudibility Crossover frequencles ore of 200, 400 , and 4000 cps GS.301WX ......... 19.25 Down ............Net 192.50 KT-244 MATCNED STEREO TWIN KIT - Motched poir of KT.44 kits plus two DC. 4 Stereo Director Chassis to give complete motched slereophonic system (2 chonnels) plus mounting hordwore. Shipping w1.,99 Ibs.
GS.302WX .............. 38.50 Down .............. Net 385.00 DCA STEREO DIRECTOR CMASSIS - Chossis only. (shown with avipment, in illustration). Mounts upper low-frequency mid-freavency ond high. lrequency speokers, networks ond controls of KT. 44 to make o Stereo Director Assembly, of illustrated. Includes panel, bose. assembly hordware and instructions for mounting equipment. Shpe W.. 10 lbs.

G5. 303
Not 15.95
KT-34 TRI.PLEX II KIT (not illustrated)-Consists of 15 Flexoir woofer, now compression mid-frequency driver, new phose correcting super iweeter. Respanse from 16 cps to upper limits complete with 600 ond $4,000 \mathrm{cp}$ networks, wiring cables and instructians for bullding enclosure. Im. pedonce 16 ohms. Power rating 40 wotts. Shipping wt. 38 lbs.
GS.304WX
17.95 Dawn

Not 179.50
KT-24 2-WAY SYSTEM KIT (nol illustroted) consists of 12" Flesoir woofer and the campression-driver high-fre. queney unit. Crossover is of $2,000 \mathrm{cps}$. Impedonce is 16 ohms, power roting 30 woffs. Recommended for use with AF. 100 Boss Superfex type enclosure. Complete with net. work, wiring moterial ond instructions for building en closure. Shipping wi., 18 tbs
G5.305wx 725 Dawn 72.50


H-223F COAXIAL 2-WAY SPEAKER - Here ore com. bined for the first time the convenience, stility, and quol ity of the true 2 -woy specker plus the exceptionol low frequeney performonce of the flezoir woofer. Response 20.15000 cps. L.C crossover of 2000 cps to new concen trically mounted rehexed compression driver tweeter. Com plete with hi-h bolonce control. Impedonce 16 ohms . Power rating 30 watts. Shipping wf., 13 lbs.
65-306


Page 40

## JAMES B. LANSING HI-FI SPEAKERS

## NEW! LINEAR EFFICIENCY SERIES

LE8 8" EXTENDED RANGE SPEAKER
A remorkoble speaker specifically desisned for small enclosures or infinite boffle. Con be mounted from either front or rear. Thanium high frequancy radiopor dome pro vides superior trebla reproduction Uneor Efficiency heightens mid.ronge copobilities. Enclusive Lons-0 loy ades termination resules in tronsporent cloity in tho "presence" sesion The LE8 delivers full bor br wirs cone houlno extremely lono linear travel yoice il ilo erer $2^{\prime \prime}$ ' ${ }^{\prime \prime}$ ohms impedenco power . Vocito coil diom
 roo the oretir rome. The precioly K5 lbs. Depth $4{ }^{4 \prime \prime}$ " 5 hge $w 1,11$ lbs
GS-225
5.70 Down

Nel 57.00

## LE30 HIGH FREQUENCY DRIVER

Reproduces the entire upper holf of the oudio spectrum in conjunction with $1 \times 3$ dividing network. This lotolly new. concept of complementory tronsducer/notwork arhieves amazing smoothness and freedom from distartion. Designed specifically to match JBL Lineor Efficiency bosi drivers. The LE3O is completely seoled and self-contoined The edge is terminoted by o Lons-o-loy surround. The 3 inch oluminum diophrogm, hydroulically drown to compler bi-spherical surface, provides smooth response from 1000 cps to beyond audibility with verbotim ocruracy. 16 ahms impedonce. $1 \%$ voice cail diameter Power copocity: 30 wath. Diameter, $5 \cdot 1 / 16^{\prime \prime}$, depth $2.5 / 16^{\prime \prime}$. Shpe. wl., 6 lbs.
G5-227
5.28 Down

Net 52.80

LE10 10" LOW FREQUENCY ORIVER use unique new lineor Efficiency low frequancy driver for with Lons.o.loy ed ed termination allows the cone to move witreme distances with parfect lineority smooth to move from 10 distances with perfect lineority. Smooth responie rom to to 2000 cps. An ontirely now frome detign enbles the LE10 to mounted from either front or cear. The LEIO olves outstonding reproduction in seoled onclosures of 2 cubic foet or more. Designed for elactrical crossover of 1500 cps or lower. Power copocity: 30 wolth. Free oir cone resononce: 15 cDs. Vaice coll dlameter: 3" 16 ohms impodonce. The mognelic circuit weighs 6 lbs Depth. $41 \%^{\prime \prime}$. Shpg. wt., 15 lbs.
GS-226
5.28 Down
52.80

## LX3 DIVIDING NETWORK

The electricol componenfs of the $\lfloor\times 3$ ore designed os on integral part of a complen electro-acaustical circuit with he LE 30 high frequency driver. It is the firit dividing neiwork to moke use of this odvonced functional cancept and nust be used only with the LE30 driver. The relative inonsily of troble frequencies is eosily odiusted by a panal ontrol. Crossover frequency with LE30 at 1000 cPs Inpup ond oufpul impedonce: 16 ohms, provides 12 db per octove offenuation with LE30. The LE30/1×3 combi. notion is copoble of 30 wolts cantinuous progrom mote. rial. Sizes $3 \% \times 3 \% \times 2 \% \%^{\prime \prime}$. Shpg. wi., 3 lbs .

Not 17.40

## EXTENDED RANGE SPEAKERS

## D130 15" SPEAKER

A basis speaker which provides distinct bass and smooth extended treble when used alone. May also be used as a low frequency unil in 2 -or 3 -woy divided network system. lis large, 4 voice coil of edge wound oluminum directly altached to a $4^{\prime \prime}$ dural center dome accounts for its rolo. tively low voice coil excursion, high efficiency, low dis. tortion. The 3 lb . Alnico $\vee$ magnet is contoined in o mognetic struclure whish rields practicolly no stray fiold. Specificotions: Response - $\pm 5$ db 30 to 17,000 cps? Capacity - 25 wolts; Impedance -16 ohms. cone reso. nonce -37 cps; Depth - $53 / 40$ ". Shpg. Wh., 23 lbs.
$65-229 \mathrm{WX}$

## D131 12" SPEAKER

Incerparates essentially the same design, same high qual ity ond poinstaking construction of its lorger $15^{\prime \prime}$ counter parf, moking it one of the hnest $12^{\prime \prime}$ speakert avaitoble Can be used singly or in 2-way of 3-way systems for those who wont D130 performonce in smaller enclotures. Specificotions: Respanse - 30 to 17,000 cps; Copocity -20 wollsz mognet construction - 3 ib. Alnico V PM in speciol design magnetic pot; Voice coil impedonce -16 ohms: Free cone Resonance - 39 cps . Voice coil construction $4^{\prime \prime}$ coil ottached to $4^{\prime \prime}$ durol center dome; Depph $-5^{\prime \prime}$. Shpg. Wi., 21 lbs.
65.230WX
7.80 Down

Nep 78.00

0123 12" SPEAKER
An extended range speaker of rodically now design. It is exitremely shollow and cempact so that it con mounted between studs in stondard $4^{\prime \prime}$ wolls, heving o depth of only $3 \%$ " overall. Ifs $3^{\prime \prime}$ diam, voico coll of edge wound oluminum attached directly to $3^{\prime \prime}$ dural center dome main. tains the 4 to 1 ratio of cail to can which vields such good resulfs. Similorly, the denien of the cone is odapled lo it shallowness-being curvilineor and cone is odapled hexible edge complionce. Smoath and utilizing domped, delivered by the rigid dural dame while the hillow form of the cone permits a good distribution shollow form rideed, curvilineor cone reproduces lows as prelisely do fined boss notes. Cone Responses 40 cpss usoble sponse - $30-15,000$ cps. Copacity - 20 CDss usoble re-- 16 ohs G5.231

Nel 39.40
$02088^{\prime \prime}$ SPEAKER
A moderotely priced unit with power input of 12 wolts. 15 oz. Alnico 5 mognet, $2^{\prime \prime}$ diom. edge-wound aluminum ribbon voice coil, dural center dome vented to ellminate non-lineor compression effects. \& ahms. Response 40.13. $000 \mathrm{cps} \pm 5 \mathrm{db}$. Free air cane resonance 55 cps . Diom. $81 / 4^{\prime \prime}$ Depth $27 / \mathbf{n}^{\prime \prime}$. Shpg. wi., 6 lbs, GS-232 ................... 3.00 Down ..................... Net 29.70

## D216 8" SPEAKER

Has some chorocieristics os D208 encepl 16 ohm imped once of voice coll. Shpg. wl., of lbs. GS-233 ................... 5.00 Down .................... Net 29.70

## WOOFERS, TWEETERS, DRIVERS AND NETWORKS

## 130A $15^{\prime \prime}$ WOOFER

A low frequency speaker of the some high-grode construction and qualify as the wide-ronge yype, bul speclolly dosigned to be used in a JBL divided system crossing over af 1200 sps. The 130 A reproduces all bass and mid-range Prequencies folling below 1200 cps with remarkable fidel. ity. It is motched for use with the 175 DIH high fre. quency, driver-harn-lens ossembly in 2 -way speaker system. Response: $\pm 5 \mathrm{db}, 30$ to 1200 cps . Volce coll diam. $4^{\prime \prime}$. Copacity 25 wotts. Free sone resonance 36 cps. Magnel $w f .{ }^{3}$ lbs. Volce coil impedonce 16 ohms. Shipping wt., 23 ibs. (Not lllustrated)
Gs.23AWX
8.10 Down

Net 81.00

## 075 HIGH-FREQUENCY RADIATOR

New onnular ring design. Highly efficient and without resonances from 2500 cps to beyond oudibility. Resomresonances from 2500 cos to beyond oudibilliy. Resom. Bofle hole diam. $3.3 / 16^{\prime \prime}$. Overall length $31 / 4^{\prime \prime}$. Input $20^{\circ}$ watts obove 2500 sps . Impedonce 16 ohms. Dispersion $90^{\circ}$ solid angle. Shpo. wi., 6 lbs.
G5. 235
5.94 Down

Not 39.40

## N 1200 DIVIDING NETWORK

Designed for use with 175.DIH driver-harn-lens ossembly and 130 A wooler. Crossover is 1200 cos. Hos 3 position switch for oltenuatlon control; a'tenuation $12 \mathrm{db} / \mathrm{dactove}$ beyond crossovec. Dimensions: $43 / 4 " 16^{\prime \prime} \times 61 / 4^{\prime \prime}$ Shpg. W1., P. 1bs. (Not lllustroted) OS.236.
5.00 Down

## 175 DLH HIGH FREQUENCY

## DRIVER-HORN-LENS ASSEMBLY

This is one of the fine high frequency drivers, preferred for their exceptionol handling of transients and theis un equalled presence. This unit provides highly faithful re production above 1200 cps , with unequalled transiont re sponse incorporated. It distributes sound evenly over solid angle of $90^{\circ}$, ossuring equal intensity to alf listening points. If is recommended for 2 -woy use with 130 SERIES SPEAKERS and NI 200 Dividing Netwark. Power handling copacity is 35 wotts; Driver impedonce is 16 ohms; Horn hroat diameter, 1 "; Mounting hole diam. $5 \%{ }^{\prime \prime \prime}$; overoll longth $111 / 2^{2}$, shipping wf., 12 lbs
GS-237.WX......... 12.45 Down ...................Not 124.30

## N2600 CROSSOVER NETWORK

his network is designed for use with D 130 line of speokars and D123, D208 for 2500 cycle crossover in ony camblnations such that the fotol impedance is either 16 ohms or 32 ohms. The unlt comes with o H.F. levet coniral thot is continuously voriable. Overoll dimensions $41 / 4^{\prime \prime} \times \delta^{\prime \prime} \times 31 / 2{ }^{\prime \prime}$ Shipping wi., $31 / 4$ " lbs.
G5.238
5.00 Down

Nol 24.00
N7000 CHANNEL DIVIDING NETWORK
may be used to supply 7000 cps crassover painf and divid. ing network in 2 -woy or 3 -woy speaker systems. Impedonce is 16 ohms. HF level contral is continuousty varioble. Dimensions: $31 / 4 " 31 / 4 " x 21 / 4 "$. Shpg. wi.. 3 lbs.
65.239
5.25 5.00 Down

- FOR OETAILS - SEE PAGE 302


# FAMOUS JAMES B.LANSING ENCLOSURES-SYSTEMS <br> (H) MIMIGOM WITH FALRIC GQILLE <br>  

## NEW MODEL C46/MINIGON STEREO PROJECTION SYSTEMS

DASLE8 CAS "Minigon" With LE.8 Installed. Brand new smalt-scale home stereo syspems. The "Minigon" system gives outstanding reproduclion. Delivers full bass with the new lineor Efliciency tronsducer, LEB. Feotures infer. chongeable grille frames, and provisions which make il possible to hang the cabinets on a wall. For stereo, a pair of the "Minlgon" systoms can be used in separote location in the room or placed side by side to offer full. field steree reproduction. Choice of finishs dork mohogany, korino, light walnut and oll walnut. Please spesify finish. Size: $32^{\prime \prime}$ wide. $15 \% 4^{\prime \prime}$ deep, $12 \%{ }^{*}$ high. Shpg Wt., 60 lbs

## NEW MODEL C49 DALE SYSTEMS

0491E8 C49 "Dole" with LE8 Installed Smoll size low by sonkep system dosignod to be used singly or as o ois for auolity stereo reproduction. The delightful "Dole" oir frequencies ore generoted in solte of the diminutlve iz frequencies ofe it arisid and non resonont Altree ize of the enclosure. It is rigid and non-resonani. Alrrec ive grille siyling and decorotive trootmont. The complete yitem provides smooth responit throughout the full audio Decirum. Cholce of finishe dork mahogony, korino, figh olnut, oil wainut. Ploore rocelly 36 lbs. $1140^{\prime \prime}$ deep. 12" high (with logs). Shog. Wi. 36 lbs
G8-156WX …….... 11.70 Down ............. Net 117.00 D4955 C49 "Dole" With SS System Installed. Includes the now Llneor Efficiency componentss LE30 wide bond high frequency driver, EX 3 maiching noiwark, and LE-10 Inmor Efficloncy low frequancy driver. These 3 com ponents provide superior performonce in the oftroctive C49 "Dole" enclosure. Choice of finish: dork mahogany torino, light walnut, oll walnut. Pleose specify finish fise: $23^{2 / 4 "}$ wide, $11 \%^{\prime \prime}$ deep. 12 " high (with logs) Shpo. Wi., 41 lbs. G8-157WX …….... 18.30 Down ............. Not 181.00 C49 "Dale" enclosure only. Specify finish GB-158WX ............ 6.00 Down .............. Nel 60.00

## DLL-ALRE D42216

The BEL-AIRE is a now JAL speoter syitem of small dimensions. The MODEL D42216 hos the D216 Extended Ronge Speoker. Recommended for shelf of table top use. Speoker limpedonce is 16 ohms, power 12 watts. Dimen sons $11 \mathrm{~h}^{\prime \prime}$ = $24^{\prime \prime} \times 12^{\prime \prime}$. Shpo. wi., 24 lbs
Model D42216M. Finished in mohogony
G8-159WX Net 84.30 Model D42216 light ook or light walnut finish. (Specify)
GB-160wx

## COMPLETE SPEAKER SYSTEMS

034001 C34 Cobinet with 001 Spooker System consisifing of DI30A Low Frequency Driver, 175 DIH Tweeter, and N1200 nelwark divider. Shog. Wi., 134 lbe
Model D34001 M. Mohogony finish
68.166WX Nof 391.75 Model D34001 Light ook or light wolnut finish. (Specify)
GB-167WX …........ 40.68 Down .............. Nel 406.75 D3 4030 C. 34 Cobinet with 030 Speoker Syitom consisting of D130. Exiended Ronge $15^{N}$ Speoker, 075 iweeter and N2600 notwort divider. Shpe. Wi., 122 lbs.
Model D340 30 M. Mohogony linish.
G8-168WX ............ 11.90 Down ............. Net 119.00 Model D34030 Lighi ook, or lighp walnup finish. (Specify)
Ge.169WX

```
                    13.40 Down ...........Nat 334.00
```


## C34 CORNE虫 HORN CONSOL

Model C34 M. Mohogony finish.
Model C34 M. Mohogony finish. Net 151,00 G8-164WX
Model C34001 I
ISht oot or light walnut linish. (Specify) GB-165WX
16.60 Down Net 166.00

GB. 150 WX . With louvered grille GE. 151 WX. With fabric grille
7.70 Down - Net 177.00 I 17.70 Down - Net 177.00 D4655 C46 "Minigon" With $\$ 5$ System installed. The $\$ 5$ consisti of the LE 30 wide bond high frequency driver, IX3 malching network, ond LEIO Linear Efficioncy low frequency driver. The $\$ 5$ is engineered for use in small seoled enclosures such os the C46 "Minigon". Choice of finishe dark mahogany, korino, Hght walnut, oll walnut. Plecse speclfy finish. Sizes 32" wide, $15 \%{ }^{*}$ deep, $12 \%{ }^{*}$ high. Shpg. Wi., 65 the

## NEW MODEL C48/MADISON SYSTEMS

O48LE C48 "Modison" With LE8 Installed. Another new pace-saving soaker syilom from the loberatory of JBL The LE8 Lineor Efflclency $8^{\prime \prime}$ sopaker delivers exoct re production of the entirs oudio spectrum. The offroctive "Modison" enclosure is of beoullful Danish design. The Moceful syling blends wall with any docor A multitude of different finishes ore avoilable the enclosure can be of different finishes are avollable. The enclosure can be used in olther horizonial or veriscal posifion. Bass foppo duction from the LEB mounted in the "Madison" is mooth, and without the "out of focus quolity of mor moll seoled speoker sytems. LEs delivert exact repro duetion of the entire audio spectrum. Power hondling apocity: 20 wolts continuous progrom material. Choice of Inish dork mohogony, korino, light woinut, ond oil wol
 $11 / /^{N} \mathrm{high}$. Shpo. Wi., 41 lbs.
GE.161WX ........... 11.70 Down ............ Nof 117.00 D4855 C48 "Modison" With SS Syifem Insfolled. Consists of the LE30 high frequency driver, X 3 motching network ond LEIO Lineor Efficiency low frequency driver. $D_{0}$ signed to meet the increasing demond for smoll-scole home stereo systems. Housed in the C48 "Dole" en closure, the speokers offer outstonding performance Choice of finish: dark mohogany, korino, light walnut, and oil wolnup. Please specify finish. Size: $231 / 4^{\prime \prime}$ wide $131 / 4$ " deep, $11 \%$ " high. Shog. Wt., is 1 bs.
G8-162WX 18.30 Down ............. Net 183.00 C48 "Madison" enclosure anly. Specify finish. GE. 163 WX 6.00 Down

Net 60.00
D38002 COMPLETE SPEAKER SYSTEM. Consists of D123 $12^{\prime \prime}$ pooker, 075 high frequency driver, ond N2600 duol impedonce dividing nefwork whith vorioble offenuotor, Housed in 38 lon neiwork whe $244^{*}$ high, $231 / 4$ " wlde. $15 \%{ }^{\text {" deep. Shpg. Wi., } 68 \mathrm{lbs} .}$
GB-i70WX. Mohogony finish.
20.94 Down - Nep 209.40

G8-171WX. Light ook or light walnut finish (specify) 21.59 Down - Nel 215.40 D38030 COMPLETE SPEAKER SYSTEM. This 2 -way speoker systom consists of D130 $15^{\mu}$ speoker of wooter, 075 high frequency driver, and N2600 duol impedonce dividing network with varioble oftenuator. Housed in C38 low-bay boss reflex enclosure. Sizes 24\%" high, $23 \%{ }^{\prime \prime}$ wide, $15 \%{ }^{\text {N }}$ deep. Shpg. Wi., 79 lbs.
GB-172WX. Mohogony linish
23.40 Down - Nof 234.00

GE-173Wx. Light oak or light walnut finish. (Specify) 24.00 Down - Net 240.00 C38 ENCIOSURE ONLY. Low.boy boss reflen enclosure. Acoustically engineered to bring out the full capabilities of JBL extended ronge loudipeokeri ond 2-way iystems. Designed for floor use mounied on modern ityle legs. Designed for hoor use"" hioh, ond $15 \%$ " deep Shog. Sizes $2 \mathrm{~W}^{1 / 4}$

GE.174WX. Mohogany finish. 6.60 Down. Net 66.00 C8-175WX. Light ook or light walnut finish.
7.20 Down - Nol 72.00 JAMES B. LANSING SPEAKE SYSTEM KITS FOR CUSTOM INSTALLATION
Four motched speoker component packoges for inspolling in your own cabinet enclasure, wall or closef. Eoch pockope consists of a bosic speoker, motching iweeter ofld a crossover neiwark.

| STOCK NO. | TYPE | CONSISTS OF |  |  | WT. (Ibs.) | NET |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GS.240WX | 001 | $130415^{\prime \prime}$ Woofer | 175 DLH Tweeter | N1200 crossover | 44 | 240.75 |
| GS.241WX | 002 | D123 $12^{\prime \prime}$ Speoker | 075 Tweeter | N2600 crossover | 21 | 143.40 |
| GS.242WX | 020 | D216 $8^{\prime \prime}$ Speoker | 075 Tweeter | N2400 crossover | 16 | 141.60 |
| GS.243WX | 030 | D130 $15^{\prime \prime}$ Speaker | 075 Tweeter | N2600 crossover | 32 | 168.00 |

GB-152WX. With louvared grille GB. 153 WX . With fobric grille. 90 Down Not 249.00 46 "Minigon" enclosure only, with louvered grille. Specify finish.
GE-154WX
12.00 Down

Net 120.00
46 "Minigon" enclosure only with fabric grille. Specify finish.
G8-155WX
12.00 Down

Net 120.00


C4 8 MADISON


2)

13)

(5) GE 850-D Extended Range
${ }^{8 \%}$ with 6.8 az. mognet ond oluminum voice coil. 50 to 2,000 eps. 15 worts. ldeo for small cabinet systems tems. Shpg. wt., 3 ths.

## G5-480

Not 10.73

## (6) A1-421 Crossover Network

1500 -eycle srassover operating from 8 -ohm omplifier outDut impedance into 8 -ohm woofer and 8 -ohm twee'er. Power oulput 25 walls. Sires $6 \times 4 \geq 4^{\text {". }}$. Shps. wi., 3 lbs. G5-481

## (7) Model LH-6 Stereo Classic

Designed especially for monoural or stereophonic hi-fi systems where spoce is af o premium. Ofers excellen: 2 syst speoker performance. of moderote cost, from! on onslosure only. 5 sU. It. in valume. Incoroorotes IW. 6 Notwork, LTh Crossover. Tweeter, and Electricol Crossover Network whit crossover of 1500 evcles. Effective Response is $50-15,000$ criles, Power 20 wotts. Impedonce 8 ohms. Dimensionss $153 /{ }^{\prime \prime} \times 9^{\prime \prime \prime} \times 8 \%{ }^{\prime \prime}$. Available in several Goods os indicoled bolow. Shpg. wi., 16 lbs.
GB.400WX LH. 6 in Blonde. Cherry or Mohogony (Plogse GE.401 wX (M. 6 in Redwood or Unfinithed Chert 56.35 GR.401 WX LM. 6 in Redwood or Unfinishod Cherry (Pleose


Not 33.40
3.00 Down

Ne1 48.95

## (7A) LK6 - Speaker Kit

Components of the LM. 6 (less enclosure): IW. 6 woofer. 1T.3 Tweeter, Electrisal Crossover networt al 1500 cps. 20 wolls, 8 ahms impedonce. Shpg. Wf.. 4 lbs;

## G:-403 W

5.00 Down

Net 29.35

## (8) G-506 Speaker System

Now $12^{\prime \prime}$ high excurtion woofer with $2^{\prime \prime}$ high performonce direct radiator tweeter and crossover network provide ultro smooth responie over the entire oudio range (Frequency Response $40-18,000$ cps.) from a compact 2 cu . ft . enclosure. Woofer provides up to four times mare low frequency power output capobillity $1+6 \mathrm{db}$ ) than conventional speakers in somparable-size enclosures. Man. dles up to 60 watts of integroted. Program Moterial. Im. pedance is ohms. Handsome compaet enclosure fin. ished on 4 sides for standing vertically on $3^{\prime \prime}$ recessed matehing base. or for attroctive horizontol plocement. Avollable in Mohogany, Blonde, Cherry or Walnuf. Di. mensions ore $23 \%^{\prime \prime} L \times 14 \%^{\prime \prime \prime} H \equiv 15^{\prime \prime} \mathrm{D}$. Shpg. wi., 48 lbs.
GB-404WX (Pleose specify finish) .................12.74 Down Nof 127.35

## (9) LK-12-Speaker Kif

Speoker components of the G.506 speoker system.
Includes high-complionce $\mathbf{1 2}^{\prime \prime}$ woofer, high-performance $2^{\prime \prime}$ tweoter ond srossover network. Instructions furnished for otsembly of kit ond construction of enclotures of twa fl or lorger. Frequency responie 40 to 18,000 cycles GB-40 wht powar roting. Shpg. Wh., 15 lbs.
GR-40SwX Speaker kit .... 8.82 Down .... Nel 88.15

## (10) G-501-Speaker System

Acoustically engineered for highest avality sound reproduction in a limited oreo. Based on General Electric's extended-bass design, the celf-contained woofer, tweoter and electrical srossover nefwork deliver on unusuolity momoth trequency response of 45 to $16,000 \mathrm{spa}$. Ideal for shereo. the ulira-compaet cu. At. onclosure meotures only $22^{\prime \prime} \mathrm{L} \times 13^{\prime \prime} \mathrm{H} \times 9^{\prime \prime} \mathrm{D}$. Choice of Mohogany, Cherry. Wolnut ond Ebony finishes. Shpe. w1,, 24 lbs. Specify finish.
GE-406WX Speaker Syitem....8.33 Down....Net 83.30


Page 42

## ACOUSTIC RESEARCH SPEAKER SYSTEMS

## AR-1

Boted on new "ocoustic suspension" prinsiple where the speaker cone is mounted on a highly compliant free sus. pension, eliminating the mechanical springs which nor. molly supoly the elastic restoring force. The missing elasticity is then reintrodused vla the pneumotic spring of the air enclased by the fibergloss-filled cabinet. The cone literally rides on oir instead of on mechonical springs. Advantages of this new principle ore low bass harmonie distortion, exceptlonally unlform extended low frequeney response, and small cobinet size for optimum parformance. The AR-1 includos an ocoustically-iuspended $12^{\prime \prime}$ low frequency mechonism ond on $8^{\prime \prime \prime}$ midrange and high-frequency unit. AR-1 is a 4 -ohm aystem. Amplifier should be of least 20 wotls; damping foctor, i for sland. ard use, 4 for corner use. Woofer moanatic cirisuit is 3.3 Ibs. of Alnico 5 plus 6 lbs. Armeo iron. System resononce: $43 \mathrm{cpi} \pm 1$ cpr. Responis: $38.1000 \mathrm{cps} \pm 11 / \mathrm{dbj} 1,000$. cps. Harmonic distortion (10 walts input) 25.70 cps $41 \% \% 70.1100 \mathrm{cps} .1 \%$; $1100.14,000$ cps less thon $1 \%$. Dimensionst $25^{\prime \prime} \mathrm{W}$ ¥ $11 \%^{\circ} \mathrm{D}$ ₹ $14^{\prime \prime} \mathrm{H}$. Shpo. wi.. S5 ibs.
 Gs.427 WX-AR-1 Walnul 119.40 Down....Net 194.00 GE-429W W-AR-1 Korino... 20.00 Down.....Not 200.00

AR.IW Some os AR.1 but less $8 n$ mid rance 12.01 uf lesis $8^{\prime \prime}$ mid range and trable GE-430WX-AR-1 W .
14.50 Down GB-431wX-AR.IW Wolnut is 40 Down Net 145.00 GB.432WX-AR-IW Kolnut 15.40 Down Net 154.00 GE.432WX-AR-IW Korina 16.00 Down Net 160.00
GB.433WX-AR.IW Unfinished Pine Nof 132.00
AR-2
The AR-2 is o lower-priced version of the AR-1 with

10" acoustic-suspension speaker and motched twettor assembly. Response $42.14,000 \mathrm{cps}, \pm 5 \mathrm{dbj}$ down 10 db of 30 ond $16,000 \mathrm{cps}$. Marmonic distortion 110 watts inpull under $2 \%$ down to 60 eps, under $3 \%$ down to 50 cps . 8 ohms. Woofer employs 1.1 lb . Alnico 5 mognet. Requires omplifier delivering 10 or more cleon watls over entire oudio range. Dimensions: 24" $W=11 \%$ " $\mathrm{C} x$ $131 / 2^{*}$ M. Shpe wh., 45 Jbs.
GA-434WX-AR-2 Mahogony (Botfomside Unfinished)
9.60 Down-Net 96.00 GE-43SWX-AR. 2 Walnut (Botfomside Unfinished) 10.20 Down-Net 102.00 GE-436WX-AR-2 Korina (Boflomside Unfinished) 11.10 Down-Net 111.00 GE-437WX-AR-2 (Unfinished Pine)
8.90 Down-Net 89.00 GE-438wX-AR-2 Mahogany (Finished on Four Sides) GR-439WX-AR-2 Wolnul (Finish Down-Nef 102.00 (inished on Four Sides) 10.80 Down-Net 108.00

## AR-3

A 3-way speoker syitem combining the renowned 12" ocoustic surponsion AR-I woofer with revolutionary now Thid and hi-frequency speakers.
The domeshoped diephragm of these new mid-ronge and weoter epeakers represent a complete deporlure from conventlonal design and provides a Ifnear response to beyond 20,000 cyeles. Mid-range magnetic structure is 3.3 lbs. Alnico 5. Tweeter utilizes 1 . 1 ib . Alnica 5 magnet. An L.C netwark provides erossover polnis of 1,000 and 7,500 eps with individual level controls to insure a proper balance under varying ocoustic conditions. Dimenilons $14^{\prime \prime} \mathrm{H} \times 25^{\prime \prime} \mathrm{L} \times 111 /{ }^{\prime \prime} \mathrm{D}$. Shpg. wt., 60 lbs. GR-44OWX-AR.3 Mahogany... 21.60 Down Not 216.00 GB-44 1 WX-AR. 3 Wainuf....22.50 Down....Ner 225.00 GB.442WX-AR. 3 Koring .. 23.10 Down .. Net 231.00 GE-443WX-AR. 3 Unfinished Pine ...............20.30 Down

Nef 203.00

## feafuring FREE-CONE SUSPENSION

## 80 FR $8^{\prime \prime}$ FULL RANGE

A smoll speoker with big speaker response. Internal-air domping iytiom provides controlled cushioning for cane. Response $40.15,000 \mathrm{cps}, 50 \mathrm{cDs}$ resenonce. 4 ib . mognat structure-mognet uses efficient Alnico 5. Hondles 25 wotts progrom moteriol. $2^{\text {c }}$ dio. edgo-wound oluminum ribben voice coll. 16 ohms. 18 ohms optionoll. Shpe. pibbon voite
$w t ., 61 / 2$ lbs.
G5.334. 8 ohms
5.00 Dawn ............ Nei 33.50 G5.335. 16 ohms
5.00 Down
5.00 Down

Net 33.50
Net 33.50

## 120 FR 12" FULL RANGE

Extended ronge speaker covering $30.15,000 \mathrm{cps}$. 40 cycle free oir resononce. Avoiloble in wither 16 ohm or 8 ohm impedonces. $91 / 2 ; 16$ mognet structure - mognet usel efficient Alnico 5 . $21 / 2^{*}$ oluminum ribbon voice coit. Mandleg 30 wolls program, 60 wotfs peok. Shpg. wt., 15 lbs.
GS-336. 8 ohms ............. 6.00 Down ............. Net $\mathbf{6 0 . 0 0}$
G5.337. 16 ohms ........... 6.00 Down .......... Net $\mathbf{6 0 . 0 0}$

## 150 FR 15" FULL RANGE

A 15" extended range speoker hoving of fee alr resonont frequency of only $\mathbf{2 3}$ crcles. Uses freecicone suspension. Freavency response $20.14,000 \mathrm{cps}$. 15 lb . mognet struc. pure-magnet uses efficiont Alnica 5 . 16 or 8 ohm im. pedonce (soeclify when ordering). 35 watts progrom ca. pocity, 70 wott peok. $3^{\text {" }}$ diometer edge-wound aluminum voice coil. Shpg. Wh.. 25 lbs
G5-338WX. 8 ohmi .......... 8.70 Down ….... Net 87.00 G5.339WX. 16 ohms ….... 8.70 Down ........ Net 8.00

## 80M 8" MIDRANGE

Now $8^{\prime \prime}$ free cone midronge speoker with heavy 4 lb . mognet structure. Excellont transiont response. Freayency range from 250.5000 cps. Power roting, 25 wotts progrom moterial. 16 ohms. Shpg. Wt., 6 h lbs. G5.343

## 15" WOOFER <br> 150 W 15" WOOFER

A free.cone $15^{\prime \prime}$ woofer with very low iesonont frequancy: only 20 cps. Response from 20 to 3500 cps, for cressover frequencies below 2500 cps. 35 woth progrom power poting. Shpg. wi., 25 lbs.
GS.340WX
8.70 Down ……........ Net 87.00

## 120 W $12^{\prime \prime}$ WOOFER

A 12. woofer with 30 cDs resonance, reproduces from 30 to 5000 eps and con bo used with Model 5.KT tweeter (below). Stroighi sided cone hos $21 / 2^{\prime \prime}$ aluminum riblon voice coil. Power roting 30 wotts of progrom moteriol. Shpg. wt., 15 lbs.
GS.341

## 5 KT TWEETER

Now toroid design disperses the sound through $100^{\circ}$ with out externol horns. Includes 5000 cos high-pass filter and odiustoble brilliance control. Response 5000 ta $25,000 \mathrm{cps}$. Mownis in $2 \cdot 13 / 16^{\circ}$ dio. hole. Shps. wh.. 4 ibs.
65.142
5.00 Down

Nel 49.50

5CX 500 cycle crosiover for 16 ohm speokers. © do per actove ottenuotion rote. Approx $4 y_{6}^{\prime \prime}$, $61 / q^{\prime \prime}$
Shpg. wh., 2 lbs.
. 5.00 Down
Net 24.50 Pod For use with 5 CX os presence coniral for middle register. Shpg. wf., 1 lb

Nof 7.50


STEREODOT SYSTEM

## STEPHENS "STEREODOT"

The "Stereodot" speoker system includes 2 smoll on closures, meosuring $9^{\prime \prime} 9^{\prime \prime}$ " $8^{\prime \prime}$ eoch contoining o auolity $8^{\prime \prime}$ speaker and designed as a superior reproducer 1 midtle ond high irequencies from 400 cps up. Also in midel is and hitier networt and contral which feeds luded is oiseciol froquench il bass freavencies from both of the middle and high coniral spester. plus opriter foeds oll frequencles egisters. In oddivon. tho nelwork foads oll Iranuoncles bbove 400 cpi of eoch shorit 3 chonnel system is set Stereod of speoker. Thus and up. whit definite iefl and right channels, and o contol chonnet which overcomes the "hole in the middle offect. Effective storeo is heord onywhre in ihe room; The Stereodots ore sholf-mounied, anywhera belwen find $8^{\circ}$ from the floor. Enclosures ore loplece molds finished n mohogany. blonde, or wolnul. They may be refinishet o match room decar. Shpg. Wi., 25 lbs
STEPHENS SD. 101 SYSTEM-Consisis of 2 Siereodot speok. ars ond enclosures (mohogony, blonde or woinut-ploose ipecify) and filter-control network.
GE-2SOWX ............ 13.95 Down ............. Net 139.50 STEPHENS SD. 102 MASTER SYSTEM-Some or obove, bul enclosures contain spiral 8 inch midronge and 5RT tweeter. Shpg. Wt., 35 lbs.
GE-25IWX
24.95 Down
24.95 Down ............. Net 249.50


## MALIEU 2 WAY SPEAKER SYSTEM

The MAllBU is o high efficiency three speoker, iwo-woy system. Offors superb auolity reproduction in o compoct enclosure. The high efficiency of this system meons thot there will be enough power from o 10 woll omplifier to produce clean, distortion-free sound to fill o very lopge room. A poir of the MALIBU spooker systems will provide the uttimote in stereophonic listening in compott cobinets of o reosonoble cost. The "free suspension" principle ulllized in the construction of the cone speoker ollows the cone to move os O irue piston. The MAllBU system con. sists of $28^{\prime \prime}$ woofers, poroid iweeter, crossover ond oftenvator. Power roting: 25 walis progrom: 30 wolf peok. The $8^{\prime \prime}$ woofers feoture heovy 4 lb . mognet structures. Frequency range from 40 to 5000 eps. $2^{\mathbf{N}}$ volce coll diameter. At $5,000 \mathrm{cps}$, the 5 KT toraid iweeter tokes over and extends frequency ronge to $25,000 \mathrm{cps}$. Its onnulor exponential horn is mode of solid aluminum. The 5KX brillionce control notwort crosses over of 5000 cps , with attenuation rote 12 db per actove. Continuously odivitoble from plus 6 db to minus 30 db . Chaice of finish: mo from plus bonde or wolnut. Please specify finish. Size $23 \% "^{\prime \prime}$ long, $15 y_{4}{ }^{\prime \prime}$ high, $11 \%$ deep. Shpg. Wi. 35 lbs . Gs-252wx


## ERENTWOOD 2 WAY SPEAKER SYSTEM

The BRENTWOOD is o high efficiency iwo spoaker iwowoy system. Offers maximum performance in on extremely compoct onclosure smoll enough to fil into o stondard bookcose itself. The high efficiency of the system ollows its use without high power omplifier. The UNENTWOBIy clean and distortion-free sound from the SRENTWOOD mokes it ideol for use in o monophonic or sleroophonic system. Consists of one $8^{\circ}$ woofer, foraid twoeter, 5000 cps crossover network ond ottenuotor. The $8^{\prime \prime}$ woofer footures the fomous freecone suspension system, giving superb clarity and definition of sound. Power raling: 25 wotts progrom; 50 woft peoks. Frequency ronge from 40 to 5000 cps. The SKT toroid iwester reproduces from $5000 \cdot 25,000$ cps. The new toroid design disperses the sound through $100^{\circ}$. minimizing "hole in the middie" -ffect when two BRENTWOOD systems ore used. The 5KX briltionce control network hos ottenuotion rote of $12 \mathrm{db} /$ octave. Continuously odlustoble from plus 6 db to minus 30 db . Choice of finish, mohogony, blonde, or wolnul. pleose specify finish. Sire: $23 \%{ }^{\prime \prime}$ long, $11 \%{ }^{\prime \prime}$ high. $11 \%$ deop. Shpg. Wt.. 22 lbs.
GE-253wX ............. 13.95 Down .............. Net 139.50


INTERNAL CUTAWAY SHOW. ING NEW TICONAL- 7 ALIOY MAGNET ( $30 \%$ MORE POW. ERFUL THAN ALNICO)



8 INCH


## NORELCO V SPEAKERS

The now Norelco 7.7 speakors ore developed ond guild. crafted by Philips of the Netherlands. This new line is designed to moot the quality requiremonis of the discrim. inating music to of a surprisingly maderate price. The T. 7 series feofures volce coll magnets of Ticanol. 7 steel the most powerful of modorn magnat alloys, for maximum

## 12" MODEL AD-4277M

The AD. 4277 M is a $12^{\prime \prime}$ iwin-cone spookef. Power handling capacity: 20 watis, 30 watts peok. Total flux: 98,000 moxwells. Frequency response: $35 \cdot 18,000$ cps. 8 ohms. Shpg. wi., 8 tbs.
G5. 360
5.00 Down
Net 39.00

## $12^{\prime \prime}$ MODEL AD-5277M

The AD.5277M is a $12^{\prime \prime}$ iwin-cone speaker. Power hondIlig capocity, 20 watts, 30 watis peath. Total flux: 134,000 maxwells. Frequency responsel $35-18,000$ cps. B


## 5" MODEL AD-3500M

The AD-3500M is a 5 " twin-cone speoker. Power handling copocity, 3 watts. 5 watts peok. Total flum: 20,000 maxwalls. Frequency responses $130-19,000 \mathrm{cps}$. 4.6 ohms. Shpg. Wt., 2 lbs.

Net 8.34
afficiency and damping. Dual cones assure wide frequency response. Constont impedonce resulis in on extremely stralght respanse curve. Langer effective oirgops and oatro high flux density provide exceplional tronsient ye. sponse. Alsa provide standard E.I.A. mounting holes and now profesional rigld frome construction.

## $8^{\prime \prime}$ MODEL AD-4877M

The AD.4877M is on 8 " twin-cone speaker. Power hand ling sopacity: 6 wotts, 10 wotl poak. Total flum: 58,300 moxwells. Frequency response curves $50-20,000$ cps. 4.6 ohms. Shpg. wi., 5 lbs
G5-362 .................... 5.00 Down ......................Net 26.00

## 8' MODEL AD-3800M

The AD-3800M is on $8^{\prime \prime}$ iwin-cone speoker. Power hend ling copacitys 6 wotts, 10 watts pook. Total flux: 26,200 moxwells. Frequency response: $75.19,000$ cpi. 4.6 ohms. Shpe. wt., 3 lbs
G5-363
Not 9.90

## $6 \times 9^{\prime \prime}$ MODEL AD-2690M

The AD-2690M is o $6 \times 9^{\prime \prime}$ twin-sone speaker. Power hondling capacity: 6 wolts. 9 walts peok. Total flums 26,200 moxwolls. Frequency nesponse: $70-16,000 \mathrm{cps}$. $4-6$ ohmi. Shpg. wl., 3 lbs.
65.365

Net 6.75

## $6 \times 9^{\prime \prime}$ MODEL AD-3690M

Deluxe vertion of AD-2690, hoving total flux of $26,200 \quad$ Shpg. wt.. 3 lbs. moxwell: and frequency response from 70 to $18,000 \mathrm{cps}$.

## NORELCO SPEAKER SYSTEMS \& ENCLOSURES

## THE HAGUE SYSTEM

This completely integroted quollity spooker iytem incor porates 2 high officiency 8 inch wide ronge spokers in an acoustically motched back looded folded hern type nelosure. The speokers hove dual cones to assure ex remely wide-range, flot responie. Ticonol. 7 magnots give maximum efficiencri long effoctive alr-gopi and extra high flux density provide exceptional tranioni reponie, oliminating ringing and overahoot. The cobinet reflecting skill of the Dutch croftsmen, is hond-rubbed to
a beautlful finlih. Entire syitom is desioned for optimum dispersion with the wide ronge response of the typlicol Unexaggeroted "EUROPEAN" cleon sound. Sire: $26 " \mathrm{Hx}$ $211 /{ }^{\prime \prime} \mathrm{W}, 171 / 4 \mathrm{D}$. Hondsome legs add $8^{\prime \prime}$ to above haight. Shpg. wt., 65 lbs.
G8-325WX. Mohogony.... 15.00 Down .... Not 149.95
GE-326WX. Blond ....... 15.50 Down ....... Net 154.95 GE.J27WX. Cherry ........ 16.00 Down Not 154.95 Not 159.95

## THE VAN GOGH ENCLOSURE

Acoustically designed to ochieve moderate sire without loss of boss response or wideness of dispersion. Ideol wherever space is limited, bul no compramise in liston ing quality is ocseptable. Charecterized by compoct size and beoulifully sityled and hend-crafted workmonship. erfectly molched for the bess response of the new Norelco T. 7 speokers. The enciosure is of distributed port

## THE VERMEER

Distributed port bass roflox lype, the now Norolco Modol Vermeor Enclosure is doitionod for now with the now Norelce T .7 Encoiber ond most other eight Inch spook. eri. Can be rested vertically or horizontolly In a book. thelf as woll as on lables. Site: $18 \%^{\prime \prime}{ }^{\prime \prime}, 12^{\prime \prime} \mathrm{H}, 8.15 / 16^{\prime \prime}$
bass reflex type. Suitable for use with most other eight inch speokers. The enclosure can be ploced vertically or horizonfolly. Sizes $23 \%$ L, $13 \%{ }^{\prime \prime} \mathrm{H}, 11 \%{ }^{\prime \prime}$ D. Shpg. wh. 35 lbs .
G8-334WX. Mohogany ...... 5. 5.10 Down ...... Nel 51.00
GE-335WX. Blond GE-335 WX. Blond ….... 5.55 Down ......... Net 55.50 GE-336WX. Wolnut …… 6.00 Down ….... Net 59.95
ENCLOSURE
D. Shpg. wi., 22 lbs.

Ge-331WX. Mohogany ...... 5.00 Down .......Net 31.00 GB-332WX. Blond …… 5.00 Down ........ Net 33.25 G8-333WX. Wolnut …… 5.00 Down ........ Net 35.00

## THE REMBRANDT ENCLOSURE

A bock loaded folded harn type. For 7.7 and most other $12^{\prime \prime}$ speokers. $26^{\prime \prime} \times 211 / 2^{\prime \prime} \times 171 /{ }^{\prime \prime}$ deop, plus $8^{\prime \prime}$ legs. Shpg. wi., 55 lbs.

G8-328 WX. Mohogony finish GB-329 WX. Blond finlsh
GE-310 WX. Wolnut finith

## Loudspeakers

COAXIAL AND FULL RANGE SPEAKERS


## NEW "Triaxiom" 208

The new Trloxiom 208 providas incisiva roolism and highest power culput in on $\mathbf{B}^{\prime \prime}$ speoker for fino stereo and monophonic instollotions. Fealures highest electro. acoustle efficiency made possible by $1 \%$ lb. magnat. Incorporates the famaus Trebox Hypelliptical prasture driver tweoter to provide response out to 35,000 cycles. Employs a Rigidflex floating piston cone resulting in a free flooting cone rim and a completely rigid cone center to provide pure piston action. Provides maximum distoritionless bass response. The now Triaxiom is the only $8^{*}$ speaker to employ a $3^{\prime \prime}$ voice coll, providing free air resononce 35 to 45 cycles. Massive die cast chassis throughoul eliminates spurious resonancos. Mectianicol crossover provides maximum efficiency from 2,000 10 5,000 eyclos. Electrical crossover lakes over al 5,000 sycles. Uses on ultra-efficiont olectrical crossover and varioble is db "h" pad. Uniform frequency response from 35 to 20,000 cyelos. Uselul freavency range 10 35,000 cycles. Power handling capacity is 20 watts. Shpg. Wf., 18 Ibs .
G5-175 .................. 5.34 Down .....................Not 53.41

## "Triaxion" 2123 Way Speakers

 A complete range of new 3 -way concontris loudspeakers with exceptionally low distortion. Frequency range to 20,000 cps. Fundamental resonance: 12" speakers 35 CDs, $15^{\prime \prime}$ speokers 25 cps . Crossovers: mechanical to midrange radiator at 2000 cps . electrical to tweeter af 5000 cps. High freguency brilliance control. Triaxiom 212. 12: High freauency beoker; handles 25 wath. $1 \% / 4 \mathrm{lb}$. mognet. Shpe. Wi. 20 lbs .GS-178WX
6.81 Down
Net 68.11 Triaxiam 215. $15^{\prime \prime}$ speaker, handies 30 walts. $1 \% \mathrm{lb}$. mognel. Shpe. Wi., 23 lbs.
G5.179WX ............. 7.79 Down ............... Net 77.91 Triaxiom 412. $12^{\prime \prime}$ speaker. Hondles 35 watts. $31 / 8$ lb. mognet. Shpg. Wt., 28 lbs.
G5.180WX .............. 9.07 Down ............... Net 90.65 trianiam 415. $15^{\prime \prime}$ speaker. Hondles 40 watts. $31 / 2 \mathrm{lb}$. magnet. Shpg. Wi., 31 lbs.
GS-18IWX …....... 10.24 Daw
Net 102.41
Triaxiam 612. 12" speoker. Handles 45 watts. 6 lb mognet. Shpo. Wt., 42 lbs.
G5-182WX ........... 12.35 Down …........ Net 123.48 Triaxiam 615. $15^{\prime \prime}$ speaker. Hondles 50 wolls. 6 lb . mognot. Shpg. Wt., 46 lbs.
GS.183WX
14.41 Down

Not 144.06

## "Axiom" 12 " Wide Range

Extro wide ronge, heovy duty speoker dosign using now Iwin diophragm for efficlent redicition of both low and high frequencios. Establishes o new standard of com oarison for clarity of definillon, onormous power hand. ling copocity, excoptional frdnsiont response in o $12^{\prime \prime}$ speaker. Handles freauencles from 20 to 16,000 cyeles with a precisoness and efficiency never before altained in o $12^{\prime \prime}$ speoker. It is espociolly useful for compost. Inexpensive stereaphonic speoker systems. A special Good mans teoture is the white diophragm in o vacuum formed precision controlled free odge suspension. The free ai resonance frequency is 35 cycles. High frequencies are ieproduced through a special diaphragm located in the conter.
Axiam 450. Continuous power handling capacity 45 wolts. Shpg. Wi., 25 lbs.
G5.176 WX ............ 8.72 Down ............... Not 87.22 Axiam 350. Power handling capocity 35 walts. Shpg. Wt., 20 lbs .
GS-177WX ,.............. 6.71 Down ................ Not 67.13

## "Axieffe" ||-8

$8^{\prime \prime}$ full ronge unit with almost amoz̧ing performance. It can be used as a standard full rallge speaker, or as a mid-range - tweeter unit. Frequency range $30-18,000$ cps, esonance approx. 60 cycles. is ohms impedance, will hondle is walls. Shpo. wi., 5 lbis.
G5-184
5.00 Down

Net 26.46

## ARU ACOUSTICAL RESISTANCE UNIT

Improves performance of speaker onclosures by friction looding, permitting use of entlosurt of $2 /$ the site normally required. Reploces port of bess roflex enclosures. Extends responso to 20 cps .
MODEL 172 ARU-For 1-12" speoker. Culout required
$101 / 2^{\prime \prime} \times 10^{\prime \prime}$; recommended enclasure 7800 cu . in. $\pm$ $10 \%$ Shpg. wi.,'2 lbs G5.185 W

Net 10.68
MODEL 180 ARU-For $1-10^{\circ}$ speoker. Cufout required $12^{\prime \prime} \times 7^{\prime \prime}$ : recammended enclosure 5900 cu . in. $\pm$ $10 \%$ Shpg. wi., $11 / 4 \mathrm{lbs}$.

## G5.186W

.Net 11.51
MODEL 280 ARU-For 2-10" ar $1-15^{\prime \prime}$ speokers. Cutout required $141 / 2^{\prime \prime} \times 10^{\prime \prime}$; recammended enclosure 8300 cu. in. $\pm 10 \%$ Shps. wi., $21 / 2 \mathrm{lbs}$.
GS.187 W
Net 14.06
MOUEL 480 ARU-For $4-10^{\prime \prime}$ or $1.18^{\prime \prime}$ speokers. Cutout required $171 /{ }^{\prime \prime}=131 / 2^{*}$, recommended enclosure 11,700 cu . in. $\pm 10 \%$ Shpg. w1., $31 / 2 \mathrm{lbs}$
GS.188W
.Net 17.DS


$$
2
$$



## UTAH UNIDRIVE WIDE RANGE COAXIALS WITH NEW DUAL DIAMETER MAGNETS

Features the all-new dual diameter magnetic circuitry with 2 Atnico $\vee$ mognetic mattorial structures combined into ono duol diameter, phoducing more pownt per pound. Provides exacting full ronge reproduction of unsurpossed lonal avolity. Slim medern design with heovy sleel frome.
 ars. mognet. Shpg. W1., $91 / 2 \mathrm{lbe}$.
G\$-535 ............................................ Down ........................................ Net 26.17 MODEL D. 12P $12^{\prime \prime}$-Respanse: 30 10 $14,000 \mathrm{cps} 21.5$ oz. mognel. Power rotings 30 watts pook. Shpg. w1., $71 / 2 \mathrm{lbs}$.
GS-534 DODEL D12LA 12 "-Response: 30 to $16,000 \mathrm{cps} .14 .7$ oz. mognet. Power roling
$5.0000 w n$
Net 23.96 20 wolls peak. Shpg. wl., $61 / 2 \mathrm{lbs}$
G5.533
Net 17.61
 wotts pook. Shpe. wi., 6 lbs
GS.532
.Net 11.73
GS.532
MODEL DSP 8"-Response: 35 to 13,000 cps. 21.5 oz, mognet. Power rollingi 30 watts pook. Shpg, wi., 5 lbs.
GSts pook. Shpg. Wi., 5 lbi. ...................................... 5.00 Down
GODES DBLA B"-Response: 40 to 16,000 gss. 14.7 oz, mognet. Porvar raling 20 wolls peok. Shpg. wi., 4 lbs
G5. 530
Not 14.67
GS-530
MODEL O8S $8 \sim$ Rerponse: 45 to $15,000 \mathrm{cps}$. 6.8 oz. mognet. Power roting $12_{14.67}$ walts peok. Shpe. $w 1$.. $3 \mathrm{k} / \mathrm{lbs}$
Golts peok. Shpo. wi., 3\% lbs.
MODEL DSOS $0^{\prime \prime} \times 9^{\prime \prime}$-Response: 60 10 $16,000 \mathrm{cps} .6 .8$ oz, mognet. Power roling: 12 watts peok. Shpg. wi., $21 / 2$ lbs.
G5-536

## UTAH CONTINENTAL SPEAKERS

High quality speokers featuring extremely wide range response with fine rich lone ideal for stereo reproduction. High elficiency Alnico $V$ magnets are used to maintain the smoothest response over the entire ronge. The midronge speoker and tweeler are fully enclosed in the bock to prevent interaction with the wootor. Utilizes the new C.R (controlled response) feafure. Cloth itiver roll provides, mooth response far woofers. (conirolled response) featuro. Ciolers terminols are phoseceded for easy connoclions in multispeaker systems Uitrorreged construction, foofuring seomless cones, with oll fibreto-motol bondi Uitro-rugged consiruction, foopuring seamien cones. wioners use seporate matched mode tion boss ond treble petter respanse. Finlshed in distinctlve wrintle grey ond soft-gold $t \mathrm{rim}$. All speokers hove 16 ohm impedonce.

| stock NO. | UTAM NO. | SIZEA DESCRIPTION | MAGNET WT. (Oz.) | $\begin{aligned} & \text { PEAK } \\ & \text { AUDIO } \\ & \text { WATT } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { FREOUENCY } \\ & \text { RESPONSE (CPS) } \\ & \hline \end{aligned}$ | SHPG. WT. | NET |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GS.520 | CTSJN | 5" Tweotor | 6.8 | 40 | 3500/20,000 | $31 / 4$ | 11.47 |
| GS.521 | CM6) | 6 " Mid Rango | 6.8 | 15 | 600/6.000 | $31 / 4$ | 14.99 |
| G5-522 | CMBI | 8" Mid Ronge | 14.7 | 20 | 500/5,000 | $41 / 2$ | 23.49 |
| G5.523 | C8P | 8 " Woofer | 21.5 | 20 | 25/8.500 | 5 | 27.93 |
| GS-5 24 | C8R | 8 "Woofer | 2 lb. | 25 | 20/8,000 | 8 | 32.31 |
| G5.525 | Cli 2 | 12" Woofer | 21.5 | 25 | 25/8,000 | $71 / 2$ | 30.58 |
| G5.526 | C12R | 12" Woofer | 2 lb . | 30 | 20/7.500 | 101/3 | 35.25 |
| 65.527 | C15R | 15*Woofer | 2 lb. | 40 | 20/5,000 | 13 | 39.69 |

## CONTINENTAL CI2RD $12^{\prime \prime}$ DUAL VOICE COLL WOOFER

Brand new design hondes lows of both stereo channols. Magnof weighs 2 lbs. Power hondling copocity, 30 walls. Frequency response: 20 to $\mathbf{2}, 500 \mathrm{cps}$. Shpg. wi., $10 \frac{1}{2} \mathrm{lbs}$ GS-528 ........................................ 5.00 Down

## HIGH FIDELITY SPEAKERS AND SPEAKER SYSTEMS

## BOZAK



B-207A 12" COAXIAL - 1 bass and 2 troble speokers on o cost-aluminum frome. Responso $\mathbf{4 0 . 1 6 , 0 0 0} \mathbf{c p s}$, builtin crassover af 2500 cps; impodonce 8 ohm si power capocity ${ }^{13}$ watts continuous, peoks to 30 wolts. OD $15{ }^{\prime \prime}$. minimum, 9 cu. ft. optimum. Shpg. wt., 13 lbs .
OS-420 ................. 8.35 Down .................. Nel 83.50
8-199A 12" WOOFER - High officiency wooter de. signed for top-quallity 2 . and 3 -way specker systoms. $11 / 2$ 16. Ánico $V$ magnat assures low distortion and linear response over the entire frequency range of 30 to 4500 cycles, of a power leval of 15 watts of progrom material. Cone resonance frequency 40 cycles, Impedonce a ahms. 5 hpe. wt., 8 lbs.
Gs-421.................. 5.00 Down .................... Net 49.50
B-209 6" MID-RANGE - For use in 3-way systems or used with the Borak B-207A and N-10102. Rasponse 200 to 3500 cps. Recammanded crossovers 400 ar 800 eps and 2500 cps . Impedonce 8 ohms, for wae in 50 -walt systems. Voice coil $11 /{ }^{2 \prime}$ diam. ribban. $11 / 2 \mathrm{lb}$. Alnico 5 magnet. ${ }^{61 / 2 "}$ OD. $31 / 2^{\prime \prime}$ deep ( $51 / 2^{\prime \prime}$ diameter cutaul). Shpe. w1.. $8 \mathrm{lbs}_{2}$
$\mathrm{GS}-422$
5.00 Down

Net 48.00
N-10102 CROSSOVER NETWORK - Nat Illustrated. 6 db per oclove frequaner divider. Crassovers 400,800 ond 2500 cps af 8 ohms) 800 and 2500 cps at 16 ohms .

 GS-423 ............... 5,00 Down

Net 27.50
D-200X TWEETERS-Direct-radioting poper-and-dural canes of this dual unit repraduces fram 2000 to 16,000 cos. Dispersion: $120^{\circ}$. Power rating: 20 wotts. Size $61 / x^{\prime \prime}$ wide, $31 /{ }^{\prime \prime}$ high, $2 \mathrm{~K}^{\prime \prime}$ doop, Shpg. wh., 5 lbs .
GS-424
Net 30.00

E-300 ENCLOSURE - Booutiful, amortly designed en closure. S cu. At. cobinet specially designed for fíne Bozok speokers, with culout for B-207A Cooxiol ond re movable panel for B-209 mid-range speoker. Sturdily buill of $x / 4$ "plywood, with lined inferior to ovoid cab inel resonances. Sizei $\mathbf{2 4 "}^{\prime \prime}$ wide $\times 301 h^{"}$ high $\times 17^{\prime \prime}$ deop. Specify Wolnul, Mahogany or Blich finlsh. Shpg. wh. 58 jbs.
G8-350WX. Specify finith...... 7.30 Down.......Net 75,00 E-300 KIT -Complete with all ports and instructions for building E. 300 enclosure. Unfinished, solid birch outside frim for oosy finishing. Specify D or $t$ for Dork or Light arille cloth. Shpg. Wt., 58 lbs.
GE-35 IWX .............. 5.00 Down ............... Net 42.50
E-302a 3-WAY SYSTEM - Superb, 3-way reproducer systom housed in E-300 cabinet. Speoker system consists of the 8-207A $12^{\prime \prime}$ cooxial speoker for the boss and treble and the 8-209 $6^{\circ}$ spooker far the middie registers The N- 10102 network 3-woy erassover is Included. System response is exceptionaliy lineor from 40 to 16,000 cps Power rating 15 walts, impedance 8 ohms. Size, $24^{\prime \prime}$ wide $\times 17^{\prime \prime}$ deep x $301 / 2^{\prime \prime}$ high. Shpg. wt, 80 lbs. Specily Mohogany, Walnut or Blonde.
GB-352WX .............. 23.50 Down ................ Nol 235.00
NEW "SPINET" SPEAKER SYSTEMS For the music lover with spoce problem. May be poired to reptoduce sparkling storeo sound. Power rolingi 20 watts. Can be placed horizontolly or vertically. Finish in wolnut, mohos ony, blonde or ebony. S1xe: $141 / \mathrm{x} \times 23 \mathrm{~K} \times 111 / 2$, . 8.502. Consists of ane B.199A wootor, one 8.209 mid range, one B-200X dual twooter, and ane N- 10102 cross aver notwork. 8 ohms. Shpe. Wh.i 1 lbs.
B-35SW. Specily fini b-350WX. Unfinisher s.199A.95 Down.... Ne1 199.50 -500. Consists of ant B-199A woofer, ano 8-200X, dual weeter, crassaver at 2500 cps. Impedance: 8 ohms GB-353wX. Spocify finish 13.45 Down....Net 134.50 Ge-354WX. Unfinished ... 12.45 Down ........ Not 124.50

## Wharfedale speakers a systems




DF. 1 DUETTE 2-WAY SPEAKER SYSTEMS


YOUR ORDER

SUPER $12 / F 5 / A L$ 12" WIDE RANGE FInest single speoker in the Whorfedotoline. Speciol cone for smoother response in upper-middie range. Extremoly hish sen. sitivity, exceltent domping. One of the most powerful mognots in use loday-17,000 lines flux density. Voice call 12.15 ohms; resononce 30.38 cpsy power 12 wotts; depth $7^{\prime \prime}$. Responso $30.18,000 \mathrm{cps}$. Shpg. Wh., 19 lbs. G5.445 .................. 8.77 Down ................... Net 87.71

SUPER 8/FS/AL $8^{\prime \prime}$ WIDE RANGE - Response 50 20,000 cps. Recommended os single speoker in maderotoly priced systems or in 2-way or 3 -way systems with 1000 Cps crossover. Impedonce 8.10 otmy Resonance 55.65 cps; Aux densily 13,000 lines; 4 watts power handling. Shog. W1., 4 lbs
G5-446
5.00 Down

Not 25.97

SUPER 3 TWEETSR - For extonding high trequency re. sponse. Ronge 3,000 to $20,000 \mathrm{cDs}$; extremely smooth response, high sonsitivity and eficloncy. Voice coll Impedonce 8.15 ohms Aux density 13,000 linoss depth $21 /{ }^{2 \prime}$. Shpg. W1., 41 lbs
G5-447.................5.00 Down
Net 25.97

WIS/FS $15^{\prime \prime}$ WOOFER - Response $25.3,000 \mathrm{cpr}$ Impedonce 12.15 ohms power roting is watts resanance $25.30 \mathrm{cps} ;$ hux density 13,500 lines: depth $71 / 2^{\prime \prime}$. Shpg wt .18 lbs.
8.77 Down

Net 87.71

W12/FS 12" WOOFER - Similar to above. Impedance 12.15 ohms, resononce 30.35 cps f fux density 13,000 liness power 12 walls; depth $61 / 2^{\prime \prime}$. Shog. wt., $131 / 2 \mathrm{lbs}$
5.15 Down

Not 51.45

WIO/FSE 10" WIOE RANGE-5moll, but powerful speoker with extro smooth response from 30 to 15,000 cps. Resononce $30 \cdot 38$ cps, Flux density 14,000 lines; 1 m . podance 12.15 ohms, power roting 10 wotts. Whi. 11 lbs G5-450

## CROSSOVER NETWORKS

G5-451. 1000 eycle 7/16 ohms 3 th
Net 17.89 G5-452. 3000 cycle. $7 / 16$ ohms. 3 lbs Net 17.89 3. Woy 800 \& 5000 cps . $7 / 16 \mathrm{ohms} .12 \mathrm{db} /$ octave. G5.453 7 lbs......... 5.00 Down .................... Net 41.41
NEWI COAXIAL 12" FULL RANGE - Feotures new magnet design with cancentric gaps. Power copocity, 10 wafts. $12 / 15$ ohms. The tweoter takes over of 4000 cycles to beyand 20,000 cycles. Camplete with built-In filler and contral for the twaeter. Shpg. wt., 24 lbs.
GS.454WX ............ 13.67 Down ..............Net 136.71
WS/2 FULL RANGE 2-WAY SPEAKER SYSTEM. A small 2-way Whoriedale speoker syitom to meet the domand for small oustanding stereo speoker systems. Impodances 15 ohms. Size: $11^{\prime \prime} \mathrm{H}, 10^{\prime \prime} \mathrm{D}, 24^{\prime \prime}$ L (horiz. ontal). Shpg. wt., 25 lbs.
G8-377WX. Oil walnut finish .... 9.26 Down.....Net 92.61 specify choice of mohogany, wainut, or blond finlsh G8-376WX
G8-375WX. Unfinished 8.77
7.70 Down Down ......... Net 87.71 W2O FULL-RANGE 2-WAY SPEAKER SYSTEM. Full performance in minimum spoce. Ulilizes special Whartedale $12^{\prime \prime}$ high complionce and Super 5 speckers. Complete with iC crossover and troble control. 15 ahms. Size: $14^{m} \mathrm{H}, 12^{\mathrm{m}} \mathrm{D}, 24^{\mathrm{m}} \mathrm{L}$ (horizontol). Shpg. wh., size: 1
G8-378wX. Unfinished .... 15.63 Down .... Not 156.30 Choice of mahogany, walnut, or bland finish. Specify. O8-370WX K........ 17.10 Down .............. Not 171.01 G8-3sowx. Oil woinut finish. 18.08 Down. Not 180.81

## NEW DF-1 JENSEN DUETTE 2-WAY HI-FI SPEAKER SYSTEMS

Economically priced "booksholf" size full 2 -way speaker systom footuring wide frequency range and exceptional, isontol position. Includes now $8^{\wedge}$ FIEXAIR wooter ond zontol position. inciudes now 8 , FLEXAIR woofer and now direct rodiator twaeter whit crossover of 2000 cy lios. The speakers are housed in fube vonted boss-Super so enclasure. Power rolingz 25 wolls overage program, ore edancer io ahms. No adiustment Enclasure is fine furnifure with oenuline

## KOF-1 2-WAY SPEAKER SYSTEM KIT


matching hardwaod front frame. Choice of finish: Wolnut tawny ash, or mahogany. Size: $12 \%^{\prime \prime}$ H; 24" W; $10 \frac{1}{\prime \prime}$ 0. 700 wx Down Na 79.50 O4-209WX. Specify finith ....7.95 Down .... Net 79.50
GE-210wX. Unfinished .... 6.00 Down .... Net 59.95 5 S. 972 FLOOR BASE, For DF.1. Ralles bollom of cobinel $33 / 4 /$ off floor. Choice of finish: Wolnut, towny osh, of mohogony. Shpg. $\mathrm{wh} ., 11 / 4$ lbs.
GE-2l1. Specify finish
Net 7.50

No1 29.75
S SHIPPED AT THE CURRENT PRICE SO THAT YOU BENEFIT FROM ANY PRICE REDUCTION

## SELECTED HI-FI SPEAKERS \& SPEAKER SYSTEMS

## JansZen niectrostatic HIGH= FIDEHTY SPEAKER

## MODEL 130

For mid ond high.frequnecy ronge. Employs o groud of 4 micro-thin plostic diaphragms, eoch suspended between 2 parallel plotes to which o conttont chorge is opplied. Complete with its own built in high voltoge bios power supply. oudio signal step-up transformer, 500 cps cross. only os a complete integrated uni
ine olectrostatic rodiatars provides smaoth sound, almost completely free of harmanis or intermodulation distartion (lower than most amplifiers). Transient response reaches年 hitherto. unknown perfection; record scrateh is reduced io new lowsi clarity and realism ore maintoined of all lo new lowsi
Frequency response 500 cps to beyond $30,000 \mathrm{cps}$. Power frequency response sols volls 60 bas AC Moximum progrom supply 2 woths. Impolis, 80 ars 16 ohms. Recommended input use only with woofers hoving extremely smooth re.
 sponse below 1000
Shps. wf., 16 lbs.
 GB-279WX. Urility savore. 18.10 Dawn. Net 181.00

- Add 8 or 16 to model number to indicare impedonce desired.

Madel 65 Tweeter, The "llitle brather" of the made 130, hos $700.30,000$ cycle range, 50 wall power level, 8 ahm impedance. Uses iwa rodiatars with 60 dispersion. Shpg. wt., 13 lbs.

| $\text { GB. } 280 \mathrm{WX}$ | 8.95 Down | Nol | 89.50 |
| :---: | :---: | :---: | :---: |
| 658 Birch |  |  |  |
| GB-281 WX | 8.95 Down | Net | 89.50 |
| 65W Walnut |  |  |  |
| GB-282WX | 9.15 Down | Nel | 01.50 |
| GSUA Ulility orray | 55 Dow | Not | 86.50 |

E. 280 Mogany

658 Birch
GB-381Wx
B-282WX GB. 283 WX

## JANSZEN 250 WOOFER SYSTEM

\section*{ne 12 cone wooter dosigned integrolly with 02.5 cu . H. fiberglospfilled enclosure. Perfect complement with} 130 tweeter. Respanses 30.1000 cps. Power copacity: Over 100 wolts peak on musicol content. 16 ohms. Size: 28 K $24 \%$ K $14^{n \prime}$ (enclosure). Shpo. Wr., 36 lbs. GB-284WX. Birch 14.60 Down ........ 140.00 GB-285wX. Mahogony 14.60 Down Nel 146.00 | GB-286WX. Slock utility 12.80 Down. Net 128.00 |
| :--- | :--- |
| G8.287WX. Woln | 48.00 GB-287WX. Wolnut. 14.80 Down. Net 148.00 MODEL 250 WOOPER-12 wooter. Shps. Wh.. 20 lbs. 69.75

G5.501 7.00 Down MODEL 350 WOOFER - The ideal companion for Janszen electrostotic twe eters. 11 " cane speaker for 2.2 cu . 1 . or arger fibergloss.filled enclosures. 30.2000 cps response. 3.25 lb . mognat structure, pawer capacity to 100 watis peak. 8 ohms. 5 hpg . wi., is lbs.

## G5.500

## Z-300 SPEAKER SYSTEM

an excellent combinotion of the Model 65 iweeter and Madel 350 woofer in a high quolity, compoct enclosure. Consists of twa electrostotic radiators and ossociated power upply, plus the $11^{2}$ woofer with $3 \%$ lb, mognet. in 2.2 cu . H1. Hibergloss-filled enclosure. Response $30 \cdot 30,000$ CDS of UD to 100 watts peak program materiol. High. frequency dispersion of 00 occomplished by precisely positioned iwesters. 8 ohms impedance. Cobinet size $28^{\prime \prime \mathrm{H}} \times 20^{\prime \prime \mathrm{W}}=13^{\prime \mathrm{D}}$. Pawer cord input $117 \mathrm{~V}, 50.60$ cycles, 2 watrs. Shog. 71 ., 58 lbs.
GB-289WX. Mohogony 19.98 Down....Net 199.75 GB-290wX. Rirch 19.98 Dawn Net 199.75 GB-291wX. Wolnut 20.35 Down Nel 203.50

## Z. 400 SPEAKER SYSTEM

An inerpensive wide range speaker system. Woll suited An inerpensive milo rang spereo as welt as monaphanic hi.fi syssems, The well.known Jonszen electrostatic tweeter his scousticolly poired with the special $11^{\text {"c }}$ Madel 350 dynomic woofer. The $\mathbf{Z}-400$ covers the ronge fram 30 dynomis wooter. The 2 -400 covers to beyond 10 builtin power supply ond high poss low distartion. A buili.in power supply ond nity and filter sliminates the need for external crossover nenwarks or aftenualors. The compact, self-mounted enclasure may be placed horizonfolly or verticolly os desired. Size: 15
$\equiv 20.13 \%{ }^{\prime \prime}$. Shpg. wt., 50 lbs. G8-292WX. Birch 14.95 Down .... Nel 149.50 GB-293WX. Mahogony 14.95 Down....Net 149.50 GB-293WX. Mahogony
GB-294WX. Oil Wolnut 14.93 Down Net 149.50
GB-20swX, Wolnut 14.95 Down Net 149.50 GB-295WX, Wolnut. 14.95 Down....... Net 134.50
GB-296WX. Unfinished 13.45 Down... Net

## TANNOY QUALITY SPEAKERS

## NEWI 12" MONITOR

A $12^{\prime \prime}$ dual concentric speoter of unusuol design. Uses separote tweeter and woafer mounted coavially and using the same mapnet assembly. Cone of woofer acts os port of exponential horn for tweeter. Overoll Frequency response from 25 to 20,000 cDs. Impedonce is 16 ohms. Enfernal crossover netwotk with 1,700 cps crossover frequency. Hondles 30 wotrs with less than $2 \%$ infermodulation dis. tortion. fluz density 15,000 gouss in tweoter, 11,500 gouss in woafer. Resonont frequency 35 cps, $7 \%$ ", deep. $12 \% \%^{\prime \prime}$ overall diomater, $11 \%^{* \prime}$ dio. Shog. Wh.. 20168.
 NEW "15" MONITOW. $15 "$ version of above. SO woms
Dower copocity. Shpg. Wi. 30 lbs. 17.90 Down....... Nel 179.00 G5-376WX

## TANNOY CROSSOVERS

XOU/HF/LF-Two way crossover. Shpo. WI. \& lbs



XOU/OR/1SLF/HF
5LF/HF-Iwo way 3000 5.00 Down

## TANNOY $12 D R$ WIDE RANGE

New wide range direct radiotor speaker. Response ${ }^{\text {th }} 4$ db fram $40.14,000 \mathrm{cDs}$, usable $30-17,000$ cps. 35 cps resononce, hondles 15 wotts. 20 ohm impedance. $12 \frac{1}{0}$ overoll dio, $7^{\prime \prime}$ deep. Used by itsolf. con be lo'er used as midrange speoker in 3 woy system using woofer, tweeter
and crassovers. 5 hpg . w ., 15 lbs . G5-380 7.90 Down .................Nel 79.00

## TANNOY $12^{\prime \prime}$ WOOFER

low frequency woaler with speciolly rigid cone. 15 ohm impedance, response down to 30 cycles. Recammended crossover frequency 1700 cps . Resonant frequency 35 coss. $12 \frac{1}{4 \prime \prime}$ dio. " $71 / 2^{\prime \prime}$ deep. is worts power capacity. Shpg. -1., 10 lbs
G5.381 7.88 Down ...........................78.75 15" WOOFER - 25 woths. 1000 cps crossover. Shpg. wi. 20 lb
GS-382WX
12.38 Down

Not 123.75

## HIGH FREQUENCY TWEETER

Horn-loaded high frequency unit hos response from 1000 to 20,000 cps. Impedance: 15 ohms. Power Copacity: is ohms. Shpe. wf., 14 lbs.
G5.383 8.40 Down
Not 86.00

## ALTEC-LANSING SPEAKERS

## CO5A DUPLEX

The new Alter cosa surpasses its fomous predecessor, the 604 Duplex speaker. Carefully angineared, the 605 A is o precision Instrument that reproduces sound faithiully. Provides unusually smooth response in thenty high lineority and clean tronsient response in the lows. Power handling copacity. 35 watts, 50 walts the lows. Power handing 20 acce0 cps. Magnet weight; 21/ lbs llaw (requency) $1 / 2 \mathrm{lb}$. (high frequency). Voice 21/ lbs. llaw requency), 1/ lb. (high irequoney). Voice coil diameter: 5 (low frequancy). Whigh freauency The exponential multh-collulor high irequency horn dis reibutes sound $90^{\circ}$ horizontally and GS.400WX
18.90 Down

Net 189.00

6018 12^ DUPLEX-Some bosic leolures as other Altec Duplex speakers. 20 wath continuaus, 30 peak: respons $40-22,000 \mathrm{cps}_{\text {i }} 8$ ohm vaice coil. $3^{\prime \prime}$ diam. Resononct 55 cps. 1.8 ib . Alnica 5 mognet. $12 \%^{\prime \prime}$ diam. I $5 \%{ }^{\prime \prime}$ deep. 5 hpg. w1., 17 lbs .
Gs.401wx
12.00 Down

41sa is" BIFLEX-Now dual-section cone with single roice coil for extended range with smooth mechanica crossover. $30.14,000$ epss 25 woi $3^{\prime \prime}$ diam. 8 ohm voice coil. 2.4 lb . mognep. Free air cone resonance 45 cps . Size $15-3 / 16^{\prime \prime}$ diom. $\times 7^{\text {"" }}$ deep. Shpg. "wi., 20 lbs G5-402WX


NEW! LAFAYETTE 8" DUO-CONE HI-FI SPEAKER


- mechanical 2-way desicn
- OVERALL RESPONSE 40-16,000 CPS.
- large magnet structure
- patented cone construction and material
- HIGH EXCURSION WOOFER

The duol-cone construction used in these high quality $8^{\prime \prime}$ speakers, provides the some type of wide-ronge response normolly found only in true cooxiol speokers or multiple speoker systems. Two separote cones oft through o com. mon volce coll. The outer edge of the tweeter cone is atrached to the mid-sestion of the woofer cone; both cones "floot" on flexpble corrugated edges. This mounting re. sults in true mechonical crossover, so that both cones oper ole of low frequencles, but only the tweecer cone operoles of high frequencles. Thls gives improved high frequency directional chorocteristics and minimum distortion. Potonted cone moleriols provide extremely smooth response over the renge of $40.16,000 \mathrm{cos}$. Magnats ore lorge ond heavy, with o flux density of 10,500 gouss ond tolal flux of 56,000 moxwells. Terminols ore scrow.tyo for solderless connections. Sensifivity is $99.5 \mathrm{db} /$ wott free oir reson once is $55-70 \mathrm{eps}$ voice coil impedonce is 8 ohms. Size is 8 "diom., $41 / 6^{\prime \prime}$ deep and requires $6 \%$ "diom, boffle open. ing. Shpg. wt, sy lbs.
SK-98 8" 2.WAY SPEAKER
2 FOR STEREO
Only 18.95

## NEW! 61/2 <br> HIFI SPEAKER

You be the
Judge!

## 6.e 5

- overafl response s0-16,000 CPS.
- SPACE SAVING \& ECONOMICAL FOR STEREO
- BUILT-IN L C NETWORK
- large, heavy magnets

An excellent speaker with oll the best feotures of cooxiol design, the SK-97 will provide the finest sound reproduction ovallable from o speoker of this size. It Is especiolly recommended where spoce ond/or cost ore foctors. The $61 / 2$ " woofor is equipped with lorge, heovy mognets for moximum efficiency and low distortion. The $2^{\prime \prime}$ Iweoter Is o seporate speoker cooxiolly mounted in a housing which complete|y reols off back rodiotion; a mesh dispersion screen provides smooth, wide-ongle high freavency propogotion. When properly enclosed, the response of this low cost mi-fl speoker is denuinely impressive. Its small size makes it perfect for use In o wide varioty of smoll -nclosures-ideal for use in pairs for stereo music systems of ud to 8.10 warts. Frequency range, S0-10,000 eps. Woofer free-air resonance, 70 cps . Voice coil impedonce, 8 ohms. Bullt-in electrical crossovet notwork. Color-coded screw-fype terminols. Requires $51 / 2^{\prime \prime}$ diam. cutout. Size is $61 / 2$ diom., $3 \%$ desp. Shpg. wi., $31 / 2$ lbs.
$5 K-97$ 61/" COAXIAL SPEAKER
2 FOR StEREO
only 12.95 Not

## THE WIDELY AGCLAIMED SK-58 12 COAXIAL SPEAKER

 Now Offered Exclusively By Lafayette At Tremendous SavingsSUPERB PERFORMANCE GUARANTEED -OR YOUR MONEY BACK!

## THE WORLD-RENOWNED LAFAYETTE <br> - RESPONSE 30-15,000 CPS

- Sheepskin "free EDGE" CONE MOUNTING
- $11 / 4$ LB MAGNET WEIGHT
- $3^{n}$ COAXIALLY MOUNTED TWEETER
- BUILT-IN LC NETWORK
- RATED AT 20 WATTS CONTINUOUS POWER

REG. $14.50^{\circ}$

## 29 <br> $-$ <br> 5

Lofoyefte's exclusive 12" cooxiol is o precision-made high fidelity loudspeaker, universolly occloimed by music lovers, hi-fl enthusiosts and professional enperts olike as the greotest performonce value on the hi-fl morket. It provides a truly foithful reproduction of sound without ony "colorotion" or distortion, its excellence being responsible for its use in in. numeroble high fldelity music systems todoy. Tho SK-58 ineorparotes such featuras os heory, high flux density TSK-5 magnets for high efficiency; $3 / /^{\prime \prime}$ wide sheepskin cone-edge suspension ond special composition fibre cone material, speclally trooted for ullro-lineor, disfortion-free response; heovy rugged cost motal frome for freedom from resononces and for greater rigidity.
The cooxially-mounted $3^{\prime \prime}$ cone-type iweder hos o bell shoped mounting for moximum dispersion of high frequancies with no bock rodiotion. With the buill. In 3000 cps cross. over network it contributes its shore to the smooth delivery of the overoll wide ronge response of $30.15,000 \mathrm{cps}$. Woofer resononce in free oir is 40 cDs . Speokor power handling capocily is 20 wotts continuous sine wove, 35 wotts peok progrom moteriol. Impedonce Finlshed in coil is 8 ohms, connections being made to chrome-ploted seraw terminols. Finished in groy-brown opolescent enomel, the speaker is supplied complete with "brillonce" level control. Shpg. WI.. 11 lbs.
SK-58 $12^{\prime \prime}$ COAXIAL SPEAKER..........

Net 29.50

## LAFAYETTE DUCTED-PORT BASS REFLEX SPEAKER ENCIOSURE <br> - Accomodotes Etrher an $8^{\prime \prime}$ or 6" Speaker

- Economical and Spoce-Sovinded Boss Response - Recommended for Stesoving

Recont for Stereo
vide full wide.ronge esped loudspeoker enclosure designod to pro range or sooxiol hl-fi sonse when used with any $8^{\prime \prime}$ or $6^{\prime \prime}$ wide over the usual boss-reffen port icorporates a special lang duct enclosures of much areater port por Deriormonce equal to mony " deep-perfect for boothelf. Oniy $11 \%^{" h i g h, ~} 18^{\prime \prime}$ wide and applications, Made of hordw. Moble rop or other limited.spoco to a high finish, ond lined with hocr throughour, hond-rubbed oble in 8 lande Mahe Min heavy acousticol padding. Avali. wt., is thes. Mohogony or Walnut finishes. Sheg
CAB-29 W Blande Mohosony, Mohogony,
or Wolnut Enclosure.
Pleose specify your choice.
...Nef

# @fayettc Presents 

## THE NEW ULTRA-LINEAR SK-128 FULL RANGE 8-INCH DUAXIAL SPEAKER WITH NEWIY DEVELOPED TWEETER BAFFLE DESIGN.

## - 40 TO 16,000 CPS-FLAT WITHIN 3 DB $\quad$ HIGH EFFICIENCY HIGH EXCURSION WOOFER WITH UNIQUE "CONICAL STIFFENER" HANDLES HEAVY bASS PASSAGES WITHOUT "DOUBLING"

## Eccentric Tweeter Mounting \& Unique Elliptical Baffle Completely Eliminates Interaction Befween Woofer \& Iweeter

The SK. 128 cambines the best feotures of a multiple speoker system in one compoct and conamical unlt. It offers full, even caverage of the entire oudlble range, with no distorition or coloration to mor your listenting pleasure. The speclally treated weofer cone has a unlque "Conical stiffener" of the apex which, caupled with its high complionce, enables the core to operate in a pliston. like manner-delivering a clean, powerful basi response. The 2 -Inch tweeter hat its own volce call and magnetic field. Special freatment of cane and cane adge provides oven distributlon of the high freauencies, with no peaks or resonances. The unusual offcenter mounting of the tweeter and its elipilcal baffle minimizes interaction be. tween tweeter and woofer dnd Insures an overall responie free of intermodulation distortion. Electrical crossover -from the woofer cone to the iwester unit is provided by o
built-in notwark. An adjusfable brilliance contral per. mitis matching of sound to raom acousties. Efficiency of the ipeaker is such that it will operate from ony ampllthe speaker with on output af 1 watt or more. Installed in a bossreflex typ of enclasure, It pertorms oulstendingly, and is reflex type of enclasure, It periorms outstandingly, and is recommended for all high-quality music systems-whether monaural or itereophonlc. SPECIFICATIONS, Overall Response: $20.20,000 \mathrm{cpi}(40.16,000 \mathrm{cps} \pm 3 \mathrm{db})$. Free oir Resononce: $45-65 \mathrm{cps}$. Impedonce, 8 ohms. Power Rating: 20 watts Integrated Program Material. Crassovert 2,500 cps. Overall Diam. 8-3/32". Overall Depthi $5.17 / 32^{\prime \prime}$ Baffle cut-out: $7.1 / 32^{\prime \prime}$. Rugeed, vibration-free speoker frome with calor-coded screw.lype terminals for quick, eory connection of amplifler leads. Shipg. wt., 5 lb: skiy connection of ampliter feads. Shpe. wi.. Net 19.50



Tweeter with baffle

Polyester resin treated tweeter edge

LAFAYETTE MINI-DUCT BOOKSHELF ENCLOSURE WITH SK-128 8" ULTRA-LINEAR SPEAKER
The perfect answer for thase who demand realistic sound reproduction oven where spoce is 11 mited. Two of these iystomi dre ideal for storeo. Shpe. wf., 28 Ibs.
SY-343WX Speaker Sytem In Walnut ............................................................................................................ 39.50
SY-344WX Speoker System in Mohogany …................................................................................................... 39.50
SY-345WX Specker System In Blande
Not 39.50
SY-340WX Speoker Sy:tom In Olled Wolnut .......................................................................................Net 99.50
SY-347WX Speoker aynem In unfinishod birch …......................................................................................... $\mathbf{3 7 . 5 0}$

# NEW REVOLUTIONARY HIGH-FREQUENCY SPEAKER the new lafayette HIGH FREQUENCY SUPER TWEETER <br> THE MOST SIGNIFICANT 

 ADVANCE IN TWEETER DESIGN OF THESTEREOAGE

- prequency response from 3,000 CPS TO MEYOND 40,000 EPS
- UNIFORM DISPERSION OVER $120^{\circ}$ IN ALL DIRECTIONS
- HIGH-SENSITIVITY ALLOWS USE WITH ANY 4-16 OHM SPEAKER
- UNIQUE DOMED PhONELIC DIAPHRAM
- POWER CAPACITY 30 WATYS
- REQuIRES NO HIGH VOLTAGE OR POWER SUPPLY


At lang last the breakthrough in Migh.Frequency Speoker ciency units this is disostrous design. Here is a lweater with unequalled performance. angineered for tadays high compliance stereo speaker ystems. The Lafoyette Spherican represents o camplote departure fram Elecirastatic twooters, which ore extremely inefficiont - Indeed so much so that it is affen necessory to utilize on L-Dod on the woofer in order to hear the woofer to the same level os that of the Elency of the wooler to the same level as that of the Electrastatic
ciency units this is disastraus, os on already inefficiont speaker is mode oven less officiont. The Lafoyetto Spherican, due to lis high sensitivily may be coupled to any speoker sysfem with no lass in speaker efficiency. As o rosult lass amplificollion is needed assuring lawer disfortian. Equipped with a buill-in 3000 syela crassover nepwark the Spherican produces o smaath linear respanse fram $3,000 \mathrm{cps} 10$ beyand 40,000 cpsy within plus or minus db from 3000 cps to supersonie frequencies. A specially designed damed phenalic diaphragm dellvers
phenamenally smaoth, silky, falthful highs radiating o harlzan af $120^{\circ}$ in all directlons, vertically as woll as Pawer ohm speaker sipned gald anadized aluminum grill set in a sturdy satin block plostic case. Shog wi, $31 / 2$ lbs

SK-131-LAFAYETTE SPHERICON SUPER TWEETER

## laFAYETTE PRoticone TWEETER

## AND ACOUSTIC RESEARCH AR-2 SPEAKER SYSTEM SPHERICON EXTENDS THE RESPONEE OF YOUR AR SPEAKER TO BEYOND 40,000 CPS

AR-2 $10^{\prime \prime}$ Acoustic suspension speaker and tweeter as. Walnut finish
semblys $42-14.000 \mathrm{cps} . \pm 5 \mathrm{dbs}$ Size $13 \mathrm{~h}^{\prime \prime} \times 11^{\prime \prime} \times 24^{\circ \prime}$. Shpg. wi. 52 lbs
Lafoyette SK-131 Sphericon Tweeler and AR-2
Mohogany Finish
SY-339 WX ........... Only 9.86 Dawn
Loforette sK.131 Sphich 98.60
Lalore SR- 131 Sphericion Twoeter ond AR-2

## SY-340 WX

 Lafoyelle SK-131 (Bland) Finish 5Y-341 WX Lafoyelfe SK-131 Lafoyelfe SK -$\mathbf{S Y}-342 \mathrm{WX}$

## Only 10.30 Down

 Sphericon Tweeter Only 11.30 Down Spherican Tweeter Only 9.26 Dawn
## New! LAFAYETTE EXTENSION SPEAKER

$$
\$ 5.75
$$

Now you con recelve high quality reproduction from your small fransistar radia. Attracively finished in hand-rubbed mohogany, this extention speoker simply olugs into earohane oulput jack of your transistor radia. Also may be used os an extension speoker far yaur Phonagroph, T.Y. ar Table Radia. Complate with length af wire and minioture phone plug. Dimensions $91^{\prime \prime} \mathrm{L} \times 6^{\prime \prime} \mathrm{H}=414^{\prime \prime} \mathrm{O}$. SK-129 EXTENSION SPEAKER
Page 50

## New! LAFAYETTE MINIATURE HI-FI SPEAKER \& ENCLOSURE <br> \$6.95

Goad things came in small packogesil You'll agree when yau see and hear this amazing speaker system. Use It as on extension speoker, as the secand unit in a sterea sel.up. ar in pair. (for a law-power sterea installation.) Housed in o beoutiful mahagany-finished waad cabinet with venfilated back cover, the 5 -woll 4" $4^{\prime \prime} 6^{\prime \prime}$ speaker is designed to work from olther ar 8 ohm outpuli. Systom is supplied with 25 feet af coble which should meet any hook-up requiremont. Over-all sizes $91 /{ }^{\prime \prime}$ wide $7 \%$ " high (ine. feet) x 34 " deep. Shpg. Wh., 5 lbs -SK-109 Miniolure Specker System

Nof 6.95

## Brought To You By Lafayette Research-Engineered To Set A New Standard Of Speaker Enclosure Excellence - now it is possible to have all the advantages of a high efficiency speaker in a bOOKSHELF SIZE ENCLOSURE - NEWLY DESIGNED ELIPTICAL PORT BROADENS FREQUENCY RESPONSE AND PROVIDES BETTER TRANSIENT RESPONSE - NEW DIFFRACTING RING ELIMInates cancellation effects between front and rear radiation



THE PROLLEMz With the odvent of stereo, the use of iwo mossive unwieldy speaker systems became unfeasible in most of today's combinafion living roam-musle room oreas. One onswer to this prablem was the alr-ilght book helf speaker systems of which there are many eacellen ariotions. However this design lis inherently inefficien and requires cosily high wattage amplificaplon
THE SOLUTION: The "Ellploflen" is the latest development from lofoyette's acoustic loborotories. It is the re ment of an intensive researsh progrom to develop a boak. helf enclosure that may be ullilized with ony efficient $12^{\prime \prime}$ tull range coovial or tioslal speoker. It may alio be ulf range, cooxial or triazial ipeoker. $12^{\prime \prime}$ and crossover lilised with a proper speakep the "Eliptafles" achiover tilied with o proper spaks the degres of holural impore in large lon and a rich, robust basi witherio found only in large peater consoles or inelliciong bookioltitis With the limes its price powered by lorge ampllim. With the "Eliptoflet" there is no need for costly high wattage amplification due la lis highly ofliciont daion charae teristics.

There ore two departures from convention which con.

Tribute to the excelience of the "Elipiofiex periormoncer one, the ellipicol port, and two, the diffracting In the cabinet shell with the front-plate extending partially across the front surface of the baffle forming ductis ar tubes from the port openings to the outside oir. The ellipticol culout changer the effective length of the duct ocposs its area. This voriation in paih lengths provides on en. tremely smooth tronsition from duct to free alif broodens the frequency responce of which it is effective and provides better transient response, Mixing the front and rear rodiation from the loudspecker dlophrogm in this manner produces a truly coaxial presentation over the complete frequency ipectrum. The tenol unity is such thot no seporation of source can be detected belween hlgh, middle and low frequencies. A triangular shaped diffracting ring mounted on the front of the baffle boord virtually ell. noter undesirable cancellation effects normally produced by clese coupling of frant and rear cone radiation. The pesult is a "lens" ffect, changing pelatlve porticle velocities and cansequently, phase relatlanships so as to produce a imooth transition fram front to rear rediotion.

Comparative loboratory and listening testi Indicate tho "Ellptoflex." performance is demonstrobly superlor throughout the audio sectrum.
The "Eliptoflez" is beautifuliy finished in a varlety of hardwood veneers for oftractive reom placement. Dimensions ofe $14^{\prime \prime} \mathrm{H}=23.7 / 16^{n} \mathrm{~W}=13.5 / 16^{\prime \prime} \mathrm{D}$. Shpg. wt., 24 Ibs. CAB-A1WX. "ELIPTOFLEX" (mohogany) ........Net 32.30 CAB-42WX. "ELIPTOFLEX' ' (wolnut) ...............Net 32.50 CAB-43WX. "ELIPTOFLEX" (blond) ................ Nat 32.50 CAB-s2WX. "ELIPTOFLEX" (oiled wolnut ... Not 12.50 Finished on 4 -ildes for olther horizoniol or vertical plocement.
CA-a3WX. "ELIPTOFLEX" (mohagnoy) ........Not 36.30 CAB-sAWX. "EHPIOFIEX" (walnul) ...............Net 36.30 CAB. 85 WX. "ELIPTOFIEX' (bland) ............... Nat 36.50 CAB.85WX. "ELIPTOFLEX". (olled wolnut) ... Net $\$ 6.50$ Sot of oftroctive Wood Runner Feel attoches on horizontar or vertical sides. Adds it height. Shes. Wh. I It. CAB-44W (mohogany)

Net 1.45
CAB-45W (walnut)
Net 1.45
CAB-46W (bland)
Net 1.45


PATENTS APPLIED FOR
in united states, england and canada


| stock \# | ENCLOSUAE | SPEAKE* | $\begin{aligned} & \text { ete. } \\ & \text { PRICE } \end{aligned}$ | $\begin{gathered} \text { spenk } \\ \text { plice } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { sY-320WX } \\ & \text { sY. } 221 \mathrm{WX} \end{aligned}$ | CAB-43WX <br> CAB-52 WX | UNIVERSITY $312$ | 104.04 <br> smpg. | $\begin{array}{\|} 89.50 \text { es. } \\ 173.00 \text { for } 2 \\ \text { we. } 48 \text { los. } \end{array}$ |
| $\begin{aligned} & \text { SY.322WX } \\ & \text { SY.323WX } \\ & \text { SY.324WX } \\ & \text { SY.325WX } \end{aligned}$ | $\begin{aligned} & \text { CAB-41WX } \\ & \text { CAB-42WX } \\ & \text { CAB-43WX } \\ & \text { CAB- } 52 W X \end{aligned}$ | UNIVERSITY UC. 122 | 67.29 8 mag | 59.95 * 113.00 for 2 Wr., 30 lbs. |
| $\begin{aligned} & \text { SY. } 326 \mathrm{WX} \\ & \text { SY.327WX } \\ & \text { SY.328WX } \\ & \text { SY.329WX } \end{aligned}$ | $\begin{aligned} & \text { CAB-41WX } \\ & \text { CAB-42WX } \\ & \text { CAB-43WX } \\ & \text { CAB-52WX } \end{aligned}$ | $\begin{aligned} & \text { JENSEN } \\ & \text { H223F } \end{aligned}$ | 105.00 <br> shpg. | 89.95 175.90 for 2 <br>  |
| $\begin{aligned} & \text { SY.330WX } \\ & \text { SY.331WX } \\ & \text { SY.332WX } \\ & \text { SY.333WX } \end{aligned}$ | CAB-41wX <br> CAB-42WX <br> CAB-43WX <br> CAB.52WX | ELECTRO-VOICE 12TRXB | 97.18 <br> shmo. | $\begin{aligned} & 82.50 \text { ea. } \\ & 159.00 \text { for } 2 \\ & \text { wt. } 38 \text { loo. } \end{aligned}$ |
| $\begin{aligned} & \text { SY-334WX } \\ & \text { SY-335WX } \\ & \text { SY-336WX } \\ & \text { SY-337WX } \end{aligned}$ | CAB-41wX <br> CAB-42WX <br> CAB-43WX <br> CAB-52WX | $\begin{aligned} & \text { ELECTRO-VOICE } \\ & \text { SP12B } \end{aligned}$ | 68.80 shpg. | $\begin{aligned} & 59.05 \text { ea. } \\ & 113.00 \text { for } 2 \end{aligned}$ $\text { wt. . } 34 \text { los. }$ |


E. $V$ SP128

E. $1212 x \times$


## Cafayetteる AMAZING NEW MINI-DUCT



## A universal ducted-port bookshelf enclosure engineered for use with 1, 2 or 3-way speaker systems.

- solldir constructed of $3 / 4^{\prime \prime}$ woods
- START WITH A SINGLE SPEAKER AND BUILD INTO A 2. OR J-WAY SYSTEM LATER
- acoustically lined throughout
- available in a varietr of finishes

Now Ilmited space need nol necessarily mean Ifmited sound. The Lofayette mini-Ouct is ocousticolly designed to achieve smooth, distortian-free reproduction with a ro markably full, clean extended bass response that gives no indication os to its small size. Reducing boards ore supplied so that the Mini-Duel will occept on $8^{\prime \prime}$ Woofer, $6^{\prime \prime}$ Mid-Range and a variary of tweoters. This versatility makes "possible to start with an $8^{\prime \prime}$ speaker and aventually build inia o 2-way ar 3 -way speaker system. Solidly constructed of $1 / 0^{\prime \prime}$ woods the Mini-Duct is beoutifully finished in a varlety of fine vonoers. Designed for offractive plocement onywhere In your hame with dimonsions $23^{\prime \prime} \mathrm{W} \times 111^{\prime \prime} \mathrm{H}=11 \mathrm{~K}^{\prime \prime} \mathrm{D}$. Shpg. wt., $23 \%$ lbs.
CAB.47WX MINI.DUCT IN WALNUT
NET 22.50
CAB-48WX MINI.DUCT IN MAHOGANY
NET 22.50
CAB-49WX MINI.DUCT IN BLONDE
NET 22.50
CAB-SOWX MINIIDUCT IN OILED WALNUT
NET 22.50
CAB-SIWX MINI-DUCT UNFINISHED BIRCH
NET 19.50
Mini-Ducl Enclosure finished an 4 sides for attractive horizantal ar vertical place. ment. Chaice of mahagany or wolnul.
CAB-10s WX Mahogany
NET 24.95
CAB.106WX Wolnut
NEI 24.95
SPEAKER AND ENCLOSURE COMBINATIONS
A PERFECT COMBINATION: The "Mini-Duet" enelasure and the fomous Lafoyatto SK. $988^{\prime \prime}$ mechanical 2 -way speoker with potented dual cone construction, This speaker sambined with the Lofoyette "Mini-Duet" enelosure will give the some wido. range frequency response ( $40 \cdot 16,000 \mathrm{eps}$ ) normolly found only In true cooxial speokers or multiple speaker sysfems. Shpg. wh., $291 / \mathrm{lbs}$.

COMBINATION UNFINISHED "MINI.DUCT" ENCLOSURE WITH SK-98 SPEAKER
SY-348WX S. 00 DOwn 26.50
COMBINATION MAMOGANY "MINI-DUCT" ENCLOSURE WITH SK-98 SPEAKER
SY-349WX S. 00 Dawn NET 29.50
COMBINATION WALNUT "MINI.DUCT" ENCLOSURE WITH SK. 98 SPEAKER.

COMBINATION OILED WAINUT "MINI-DUCT" ENCLOSURE WITH SK. 98 SPEAKER

COMBINATION BLONDE "MINI.DUCT" ENCLOSURE WITH SK.98 SPEAKER
sY-352wX
5.00 Down

NET 29.50
SK-9B SPEAKER AND MINI-DUCT FINISHED ON 4 SIDES
Y-378X MAMOGANY .......................... 5.00 Down
NET 31.95
SY-378WX WALNUT .......................... 5.00 Dawn .......................... NEY 31.95

## SOLVE THE SPACE PROBLEM WITH NEW! LAFAYETTE

 HBOOSOLDES
## BOOKSHELF SPEAKER SYSTEM

- FOR BOTH STEREO \& MONAURAL
- FREQUENCY RESPONSE 35 TO 18,000 CPS
- UNIQUE $8^{\prime \prime}$ WOOFER-MIDRANGE ASSEMBLY
- COMPRESSION - HORN TWEETER
- 6 DB PER OCTAVE ELECTRONIC CROSSOVER WITH LEVEL CONTROL
- SOLID $3 / 4$ " VENTED DUCT PORT BOOKSHELF ENCLOSURE
"Triosonic" The perfect blending of attroctive bookshelf cobinery and advanced oudio design lyeors ohead of other engincering efforts along these linest. The excep. tional smoothness and cleanliness of the bass and midrange is the product of a unique $8^{\prime \prime \prime}$ woafer-midrange spooker design employed in a solld $\%$ " acoustically lined vented duct port enclosure. Twa separate cones are coupled through a common voice coll, with the outer edge of the midrange come attiched and floating on the flexible corrugoted edges of the waofer cone. This results in o me. shanical crossover with an obsolure minimum of distor tion, so that bath cones operate in phase at low frequen. sies, but only the midrange cone transmlts the midfre


## A SMALL MIRACLE FROM

## - THE NEW SK-124 ULTRACOMPLIANCE MECHANICAL 2-WAY SPEAKER SYSTEM

- frequency response 40-16,000 CPS
- ESPECIALLY DESIGNED VENTED, TUNED, dUCT TYPE ENCLOSURE
- UNIQUE MECHANICAL 2-WAY SPEAKER WITH EXTRA HEAVY MAGNET
- Enclosure finished on 4 SIdES
- excellent for stereo


## OUTPERFORMS

SPEAKERS DOUBLE

## LAFAYETTE'S LOW PRICE

lafayette has indeed wrought a small miracle in engineering such acoustic excellence Into so mall o package. Smooth, distortion free response with a deep fundamental boss and clean pure highs that give no Indication of its moll bise and price. The perfect seeker for that high avalliy installation in your home, office of restouronttwo ate ideal for stereo
The speaker features unique dual cone construction with on extro heavy magnet structure. Both tweeter and woofer "float" on flexible, corrugated edge with the outer edge of the tweeter cone oltoched to the mid-ssection of the woofer cone. This results in a mechanical crossover so that bath cones operate in phase at low frequen cis, but only the tweeter cone operates of high frequencies. The some type of wide. range frequency response normally found only in true coaxial or multiple speaker systems is provided. Frequency response of $40.16,000$ cpi. impedance holisantal of
 vertical placement anywhere
$8.7 / 16^{\circ} \mathrm{D}$. Shag. wt., is lbs.
available in mahogany or walnut (please specify).
SK-124 W MECHANICAL 2. WAY SPEAKER SYSTEM
.Net 17.30 SET OF TWO SK-I24 W SPEAKER SYSTEMS FOR STEREO .................................... 1

## If true-fidelity in music is important to you........ NEWI lafayette HICH COMPLIANCE 3-WAY <br> 

- FREQUENCY RESPONSE FROM BELOW 35 to 18,000 CPS.
- ADVANCED DESIGN $8^{\prime \prime}$ HIGH COMPLIANCE WOOFER WITH 1 LB. MAGNET \& $11 / a^{"}$ VOICE COIL
- 3-WAY LC ELECTRONIC CROSSOVER NETWORK


## - perfect for stereo

Lafayette designers hove succeeded in achieving a standard of performance formerly associated only with very large speaker systems. The lafayette Mini-Duct bookshelf enclosure is employed with advanced MI. Compliance speaker design -both enclosure enclosure hers have been corafulir engineered and matched in efficiency for a precise musical blend and balance. An unusually full, clean low frequency response is promusical by the specially designed $8^{\prime \prime}$ waofer-indead the quality of boss response furvised by this unit is superior to systems many times lt s size and price. The Hi-Complinice bolter cone is suspended by a new type of fabric edging permitting extremely once woofer cone hs suspended by action of the cone plus the use of a i tb. magnet Wide $11 / /^{\prime \prime}$ voice coil not only provide a high efficiency bass response but also serve and aline distortion and givellent transient response. Both the 6 " Midto eliminate r and $3^{\prime \prime}$ Tweeter have completely sealed rear housings ta prevent bock rangespor rodiotion and interaction 750 cpI and $3,500 \mathrm{cps}$ employ separate balance controls far the network cold tweeter, thereby providing precise control for balancing the speaker midrange and tweeter, thereby provial listening tastes. Hand ias up 1025 wats of in. system to room acoustics and individual listening farloime tegrated program $111 / \mathrm{D}$. Complete with easy to fallow speaker assembly Instructions. Shpg.wt., 33 lbs. BY. 3 SEX 3.WAY BOOKSHELF SPEAKER SYSTEM UNFINISHED BIRCH.... NET 46.93 sY-35sWX 3.WAY BOOKSHELF SPEAKER SWAY BOOKSHELF SPEAKER SYSTEM MAHOGANY .............. NET 49.95 SY-3 50 WX 3. WAY BOOKSHELF SPEAKER SYSTEM WALNUT SY-36IWX 3. WAY BOOKSHELF SPEAKER SYSTEM OLLED WALNUT SY-962WX 3. WAY BOOKSHELF SPEAKER SYSTEM BLONDE FINISHED ON ASIDES
SY.37SWX 3-WAY BOOKSHELF SPEAKER SYSTEM MAHOGANY SY-376WX 3. WAY BOOKSHELF SPEAKER SYSTEM WALNUT

NET 49.0s NET 49.9S NET 49.0s

## afayette HI-FI SPEAKERS AT POCKET BOOK PRICES

## $15^{\prime \prime}$ COAXIAL HIGH-FIDELITY SPEAKER

## 30-20,000 CPS - 25 WATTS-

 10 OZ. ALNICO V MAGNET Superb stondord of performonce throughout the oudia spectrum. Consists of speciolly designed $15^{\prime \prime}$ waofer with o full $5^{\prime \prime}$ high.frequency tweeter, cooxiolly mounted, and $11 / 4^{\text {" }}$ voice coll. Extra strong mognet are used in both units for highest officiency and imoolhest response. The $15^{\prime \prime}$ woofer gives the deep rich bass notas for complete soltsloction. Frequency respanse: $\mathbf{3 0 \cdot 2 0 , 0 0 0}$ CPS. Crossover frequeney: 3500 CPS. Mondling copacily; 25 waits, 35 wotts peak; Impedonce: 8 ohms. Rugged seamloss cone, finished in atfroctive non-marking brown hommerloid enomel 5 hpg . wt ., 13 lbs . Cone Resononce 45 cycles. SK-135 w.Not 17.95

## 12" COAXIAL HI-FI SPEAKER

Some construction, walloge and magnet woight as obave. Respanse $40-20.000 \mathrm{cps}$. Cone resononce 50 cycles. Shpo. wt., 12 lbs 5K-136

Nel 14.95

## NEW! 12" WIDE-RANGE

 HI-POWER HI-FI SPEAKER - 21.5 0Z. ALNICO 5 MAGNET RATED AT 30 WATIS RESPONSE 20-14,000 CPS SEAMLESS CONE SPECIAL HEAVY-DUTY CONSTRUCTION Incorporoting o full 21.5 oz . mognel of high. hus density Alnica 5 , this now wide-ronge $12^{\prime \prime}$ PM high fidellity speoker is rofed of 30 wotts ond is excellent for use with ony hi-f system. With proper bofiling. Prequency response is 20 to 14,000 cps. Speciol constfuctionol feolures include o $11 / \mathbf{"}^{\prime \prime}$ volce coll; per. monent banding of the voice coil to the seomless cane: completcly dusi-prool enclased mognet struclure; fibre-to-metol bands mode with heat under extreme prossure; heavy cosp-metol fromes metol ports heavily cosmium-ploted, with exposed surfoces covered with o handsome moreresistant hommerloid finish. Voice coll impedonce 8 ohms. Outside diameter $12-3 / 16^{\prime \prime}$, mounting diometer $11.9 / 16^{\prime \prime}$, depth $63 / 4$ ". Color-coded bross solderless binding-post 5K. 137Net 14.95

## $8^{\prime \prime} \mathrm{HI}-\mathrm{FI}$ <br> WIDE RANGE SPEAKER s0-13,000 CPS

Answers the need for a good quality but moderotely priced speaker with o ronge of $150-13,000$ cycles. An extremely smooth single cone reproducer - ideally suited for MI.FI systems. Excellent for limited spocegood overall bolonce-power handling capacity: 10 wotts- 6.8 oz . Alnico $\forall$ magnet-freaueney response: on cone minimizes possibility boffed. Rim treotment flon. Yoico coll impedances 8 ohms. Cone lim distorflon. Yoice coll impedonces 8 ohms. Cone Resononce
85 cicles. Shpg. w1., 4 lbs. 5K. 69
8" MID-RANGE SPEAKER
Ideal for use with tweoter and crossover networks speoker is sapoble of producing undistaried response down to 350 cps, the crossover frequency. Bock is enclosed. Power handling capacity, 25 walts. Fre. quency response $350-13,500$ cycles. Recommended to crossover of 5000 cycles to o tweeter. Cone reso. nonce Iso cycles. Impedonce: 8 ohms. Shpg. Wr. 4 Ibs.
SK-74
Net 6.50
$6^{\prime \prime}$ MID-RANGE SPEAKER
An excellent mid-ronge direct-rodiotor type speaker for installotion in 3-woy or 4-woy speoker system Gives cleon, distartion-free reproduction of roled power. Feolures closed bosk to ellminate Interoction with sound waves goneroted from oiher speakers in the somo enclosuro. Roted power handling capacity 10 wotts. Frequency respanse from 700 to 7000 cp Mognet weight: 3.16 az. Voice coil impedonce: 8 ohms. Binding post-type terminals. Shpg. wt., 3 ibs-SK-138*

Net 5.25


NEW! DUAL DIAMETER MAGNETS
Remorkoble new development of duol diometer (DD) direc tional groin Alnico $V$ slug magnets, now in use in the new Boeing Jets. All Lafoyetfe speokers on this page ore oouip Ded with DD magnets excepl'. Mognel weights shown are
equivolents of conventionol Alnico V .


## ECONOMY 8'

COAXIAL HI-FI SPEAKER

- ideal wide-range budget speaker - pef. FECT FOR STEREO RESPONSE $70.12,000$ CPS -GUILT-IN CROSSOVER 10 WATT RATING 3.15 O2. MAGNET
A fine coomial high fidelity speaker with built-in elec ronic crossover, Roted at 10 wolts, with response od $0-12,000 \mathrm{cps}$. Rigid, non-resononp frome, high effici ency $3.160 z$. Alnico 5 magnet, speciolly.freoted long ife cone, and goskef-seoled mognet cover contribute to its fine performonce. 8 ohm volice coil. Shpg. wi

SK.92 IAFAYETTE ECONOMY SPECIALI Net 5.95

## $12^{\prime \prime}$ COAXIAL SPEAKER

12. Aninico $\vee$ PM minh 1" voice , oil ond heow one. piece cone. Specially designed $3^{\prime \prime \prime}$ Alnico V PM iweeter completes this combination speaker. Range 40 to $15,000 \mathrm{cps}$. 8 vilt-in high poss filter. Power roting: 12 wafts. 6.8 oz . Alnico $V$ mognet. Impedonce 8 ohms. sk.93w

Net 8.75

## ECONOMY 15

COAXIAL HI-FI SPEAKER

- rated at 20 watts
- $s^{\prime \prime}$ TWEETER
- built-in 1800 CPS crossover
- RESPONSE 45-12,000 CPS

This dual-speaker system provides clean, axtended response of 45 to $12,000 \mathrm{cps}$. Includes $15^{\circ \prime}$ woofer with cooriolly mounted $5^{\prime \prime}$ iweeter ond builtin 1800 cps crossaver. Heavy, non-resonont frome onli-corrosion treated; 6.8 or. Alnico 5 magnet. 8 ohm voice coil. 20 watls power roting. Shpg. wh.. 5K.89W

Net 12.95

## 15" HI-FI WOOFER

- 31.5 OZ. ALNICO MAGNET
- 20 TO 5000 CYCLES- 35 WATTS

Thit officiont $15^{\prime \prime}$ low froguency woofer incorperoten mony exclusive teatures. For orloinal equibment or ceplacoment. It provider highly efficient entended lew frequency response. Ideol for ollombling 2 . and 3-woy sopaker iyilame. Hondien 35 watts of oudio Cowor. Freauoncy response $\pm 2 \mathrm{db} 20$ CPS to 1000 CPS, lond $\pm 5 \mathrm{db}$ from 20 CPS no 5,000 CPS with oroper boffiling. poice coll dio $\mathbf{2}^{2}$, Impedonce 8 ohmi. 31.6 oz. Alnico $\forall$ mopnet. Finithed in beau. liful brown enomel. Cone ls seomlesi rype., per monently bound to volce coll. Shpe. Wp., $131 / 4 \mathrm{lbs}$ Cone Resomance 45 crcles
SK-67W*
Not 23.95

## 12" HI-FI WOOFER <br> 21.5 O2. ALNICO V MAGNET- 25 WATT

 Provides efficient, erfended low.frequency response of $\pm 5$ db from 35 to 8000 CPS, and features 25 worls of pover hondling sonocity. Perfect for high. fidelity insiaflatlons or for modernizotion of older - quipment. teol for assombling 2 . and 3-way speather ivitem at a budget pilce. Enciosed mas. net str velure-a ampletely dusil-prool. Comationce of oufer cono and iner ipider carefully calsulated fer best beti raponic 21.5 ox. Alnico $V$ mognet, $11 / 1^{\prime \prime}$ dia. volice coll, 8 shm impedonce. Ali expased surfecer ore finithed in beovitul brown enamel. Shpg. wf., 8 lbi. Cone lissononce 50 eyclesSK-68
Not 15.50

## 5-INCH TWEETER

A fully enclosed high-irequency iwealer. Cleon, with extended high feequener response of 600 to 15.000 eps and crassover frequency of 1500.3500 cps , this iweeter will hondle outpul of omplifiers up to 25 wolls. Voice coil dio. $3 / 4$ "s impedance 8 ohms; rugged seomless cone - inherently maisture resistont; 3.16 oz. Alnico $V$ magnet, with buils-in crossover netwark. 5hpg. wh., $21 / 4 \mathrm{lbs}$ I SK.72*

## afayette SPECIAL HI-FI SPEAKER VALUES

## 12" PM SPEAKER

- "bEST BUY" FOR HIGH FIDELITY MUSIC AND PUBLIC ADORESS USE
- 25 WATTS POWER RATING

Here's on excellent fidelity, powerful 12" PM speaker that is by for the best buy ovollable for ony comporoble speaker with the some performonce copobilities. Highly recommended for replocement use or originol installation in IoD quolity rodio-phono installations. Ideol for PA use. Handles 25 wotts of power without ony distortion. Response assured over the range from 50 to $10,000 \mathrm{cps}$. Alnico $V$ mognet olone weighs 9 ounces. Presision formed oluminum bose voice coil. Voice coil impedonce, 8 ohms. Perfectly oligned coll ond molded cone construction. Shog. wt. \& lbs

P19299 - 25 wolt, 12" PM Speoker,.................... 14.95

## 12" GE HI-FI PM SPEAKER <br> - handles 25 Watts <br> - ALUMINUM VOICE COIL

This GE deluxe speaker was designed by oudlo engineers to meet the high stondords of performonce so essentiol to high fidelity ond for dependobility and durobility. The 14.5 oz . Alnico 5 mognel produces $\circ$ dense mognells field with resultont optimum sensitivity ond domping foctor. The oluminum bose voise coil is unoffected by moisture ond temperoture vorititions ond eliminotes buzmoisture ond iemperoture voriotions ond exceptionolly wide frequency ronge- 50 to 15,000 zing. Exceptionolly wide frequency ronge- 50 io cycles whish moy be extended to 30 cycles in properiy designed enclosures. "free off resononce 65 CPS. The This speoker, which scientific listening tests indicote con This speoker, which scientific listening tests indicote con outperform speokers costing severol inmes of much, is
ideol for moderote-cost hl fi custom instollotions. Shpg. wi., 7 lbs.
SK. 60.
Net 17.95
$6 \times 9$ "Twin-Tweeter" COAXIAL HI-FI SPEAKER

- EXCELLENT BASS RESPONSE
- built-in Crossover
- ADD HI-FI TO Autos, ty. RADIO SETS

This $6^{\prime \prime} \times 9^{\prime \prime}$ hl.fi cooxiol speoker opens new possibillities for high-fidelity reproduction. Compoct enough for your cor, for rodio ond television sets-and for the high-fidelity enthusiost with o space problem. Twin high.frequencr tweeters ore designed to cross over mechonicolly of 5000 eps. The excellent boss chorocteristics of the $6 \times 9$ woofer foithfully reproduce the low frequencies. High-energy Al nico 5 mognet; voise coll $3 / 4^{\prime \prime}$ dlom. Power hondling copocity 6 wotts ( 9 watts on peoks). $4^{n}$ deep. Impedonce 3.2 ohms. Shpg. wf., $21 / 2 \mathrm{lbs}$.

SK-75 - $6^{\prime \prime} \times 9^{\prime \prime}$ hi.fi speoker


15" 2 WAY SPEAKER SYSTEM
Mount this outstonding 2 -woy speoker system in a horn. loaded corner enclosure or in a boss reflex cobinet and enioy full ronge musicol reproduction, of on unusuolly low cost. System includes o Jensen $15^{\prime \prime}$ woofer; $2 \cdot 5^{\prime \prime}$ tweeters; ond the Lofoyette LN. 2000 eycle L/C crossover network. Baffle-boord supplied is $19^{\prime \prime} \times 24^{\prime \prime}$, of heovy $3 / 4^{\prime \prime}$ plywood, finished in brown sloin. System trequency response 35 to 15,000 cPs. 20 wotts power hondilng copobility. 8 ohms impedonce. Shlpped knocked-down, complete with oll necessory instructions for eosy ossembly, plus mounting hordwore ond wire. Shpg, wl., 20 lbs. 5 Y-9 Speoker System.

## LAFAYETTE $8^{\prime \prime}$ WOOFER

- Rated 20 watts
- Free edge cone
- 14.7 oz. alnico $V$ magnet
- High Compliance
- 35 to 7500 cps

Ideol for 2 or 3 woy systems where spoce is of o premium, this $8^{\prime \prime}$ woofer provides coveroge from 35 to 7500 cps. The 14,7 oz. mognel is extroordinorily heovy for this size speaker insuring the officiency needed for good cleon response. Other teotures include free edge, high complianse cone, 20 wall power dissipotion, voice coil dust cover. Cone resononce 50 cycles. 8 ohmV.C. Shpg. wi, $41 / 2 \mathrm{lbs}$. SK-184



## 8" EXTENDED RANGE SPEAKER

- 45 to 13.000 cps
- skiver rolled cone for smooth RESPONSE
- 3.16 OZ. NEW TYPE MAGNET

Here is o price buster for the budget-wise hilli music lover. This is on extended ronge domestic speoker whose high sensifivity is ochieved through o new hi-efficiency mognetic elrcuit. Ideolly suited for medlum ond low level monourol or stereo reproduction. It hos o 1" voice coil with 8 ohms impedonce ond will hondle musicol peoks of 8 woths. Sizes O.O. $83 / 32$ "; Mig. hole dimenslons 7.11/16"; 3.13/32" deop; Brown enomel over heovily ploted steel. Shpg. wt. 2 lbs.
SK. 106
Net 4.65

## $6^{\prime \prime} \times 9^{\prime \prime}$ WIDE RANGE SPEAKER

- NEW HIGH SENSITIVITY MAGNETIC CIRCUIT


## - SS to 14.000 cps

- space saver construction

This hi.fi extended ronge speoker Is definitiely o must for odd-on stereo opplicotion ond lends itself mony new opplificotions such os odding hi.fi to outos, TV, rodio ets, ond atso where spoce IImitotions ore poromount such os shelves, horizontol enclosures etc. This speoker consists of o speciol skiver rolled cone with ol" voice coil with 8 ohm Impedonce which con hondle musicol peoks of 8 wotts. The shell is of brown enomeled heovy ploted steel with o 3.16 or. mognet of new design which produces extro high sensitivily. It hos on outside diameter of $6.3 / 8^{\prime \prime} \times 9.5 / 16^{\prime \prime}$; Mig. hole dimension ore $4.5 / 8^{\prime \prime} \times 6.9 / 16^{\prime \prime}$; Depth is $3.7 / 16^{\prime \prime}$. Shpg. wt. 2 lbs. SK-107

ROYAL DANISH 12" DUAL CONE SPEAKER - high flux density

Lofoyefte brings you this fine imported high fidelity speoker of o froction of the price you would expect to poy for so much quolity. Two cones ore mounted on o single oxis, ond provide remorkoble wide ronge fre. quency response from 45 to 14,000 cPs. Reproduction of progrom moterial is exceptionolly llfelike throughout the entire ronge. An exclusive, special formula cone rim preatment ellminates cone rim resonance ond distortion. Also, the domping effect improves tronsient response ond prevents "hongover". Overoll depth, $5.3 / 16$ ". Completely enclosed. I" diometer voice coll with on impedonce of 6 ohms. Shpg, wt., 6 lbs.

SK-86. 12" Duol Cone Hi-FI Speoker.
Net 7.95

## 8" 2 WAY <br> SPEAKER SYSTEM

Here ls o speoker system thot solves spoce and cost prob lems for the oudiophile who wonts o compoct unit of a ow price without socrificing quolity. When properly nounted in o suitoble enclosure, this speoker system will give omozingly wide frequency responso ond exceptionolly low distortion. Iti smoll size mokes it quite usefut to bullt-in mounting in existing furniture. It is equolly suited as the serond speaker in on inexpensive odd-on stereo system. Two systems ore perfect for an exceptionally liny (and inexpensivel stereo system for city-sized apartments. This system includes o speciol Jensen $8^{\prime \prime}$ woofer speoke with extremely smooth low frequency response, o compres sion driver horn tweeter which smoothly ond eosily reproduces up to the limits of oudibility, ond Lofoyelte's LN. $1 / 4$ section, $6 \mathrm{db} / 0 \mathrm{ct} .2000$ cycle srossover nefwork. Power honding copocity 20 wolfs In boss reflex enclosure, im pedonce 16 ohms. Shpg. wt. 8 lbs
SY-94 Speoker Sustem
Net 19.95

## $5^{\prime \prime}$ TWEETER AND CROSSOVER NETWORK

A speciolly designed $5^{\prime \prime}$ Tweeter ond Crossover Neiwork thot will ossure high frequency response whon used with ony speoker you now possess. You con now moke your present speoker into o 2-woy speoker system increosing the high frequency ronge up to 15,000 cycles. Dlogrom included. Shpg. wt., 5 lbs.
STOCK NO SY-1
Nep 7.25
STOCK NO. LN-1 Crossover Network only....Ne1 4.95
STOCK NO. SK-35 $5^{\circ}$ Tweeter only... .............Net 2.45
Page 55

## Safayette EXCLUSIVE CROSSOVER NETWORKS \& TWEETERS QUALITY COMPONENTS AT SAVINGS OF $33-50 \%$

## NEWI 2- and 3-way L/C CROSSOVER NETWORK

- 4 crossover frequencies: 350, 700, 2000.3000, 5000 CrCLES - CROSSOVER COMBINATIONS - ? OR 3 war crossover - attuactive metal case - sultrin mailliance \& paisent controls

This versollle unit con be usod olther as a 2 -woy or J-way 2. db. per octove notwork. You can wse this notwork for a 2.woy iyntem now. aailiy and aulckly convert to 3 .way later. Six crossover comblnations ore ovolloble-2-way crasiover with 2000.3000 rycle op 5000 cycle crossever, and J.way with cressover frequenclos of 350 and 3000 .

350 and $2000 \cdot 3000,700$ and $2000 \cdot 3000$ or 700 and 3000 crices-o totol of four different crotsover frequencies Sultable for 8.16 ohm speakore. The notwork is housed in on ollrective metal care, cultoble for mounting inside en closure or leaving out in the open. Two level controlsCrilliance and Presence controli-are mounted on the front oanel. If desired, there level contrels may be removed along with the beoutiful gleaming copper escutcheon plate for external mounting, controls are wlied with J-foot lone loads. High quollity compononts are used for lone life ond top performance. Shipg. wh., 6 lbs.
IN-S Lefaretre L/C CROssovir
Nep 14.95

## 2 OR 3 WAY CROSSOVER NETWORK

- 4 crossover frequencies - 1 PAD calance cps or 3300 cps , and in o three way byitom by uhlizine CONTROLS EASY TO USE - IMPEDANCE 16.0MMS The IN. 7 Crollover Notwork combinas avallity perform. ance, beauty and versatility at an unbeatable price. If can be used in a iwo-way tyllem by crouling over of 500 The two ilmultaneousily. The change from a two wor to 0
3-way o do per octove network may be accompllishod 3.way 6 db per octove notwork may be accompllshod
easily. Two lovel balance controls. Sizes $5 \% \mathrm{z} 2 \% \mathrm{z}$ earily. Two level bolance controls. Sizes $3 \% \mathrm{z} \% \mathrm{z}$ 2\%". Shpg. wt., $2 \%$ lbs.
IN. 7
Nel 8.75


## LAFAYETTE 2-WAY CROSSOVER NETWORK

- crossover at 2000/3000 crcles
- 6 de/octave attenuation
- IMPEDANCE 8-16 OMMS

This Lafayetle $I / C$ network, ruogedly bullt and carofully
desloned, son be used to divide the audio frequency
apectrum of 2.3000 cps ot requirod by 2 .woy multiple hi-fi 1peoker ayitems. Provider ollenuallon of o db per octave. You'll get awolity pertormonce of low cast. For 8.16 ohmi
 $21 / \mathrm{lb}$.
LN. 1
Not 4.95

## LAFAYETTE 2-WAY CROSSOVER NETWORK

ADJUSTS TO EITMER 2500 OR 3000 CPS CROSSOVER FREQUENCY

A corolully designed copocitive inductive 2-woy crossover 5000 wheles. Has or frequency ealily iof to ilther 2500 or 5000 cyeles. Has a builf.in continuaully variable high.
frequencr "Brilliance" lovel control to match room ocent:

Hes derfectly. Central has o 2 k t. coble to mount on reor ar side of speoter cobinet, ond o long shaft for thick wood panels. Mai on aftractlve bruihed-gold finfish os. cutcheon plate. For wie with 8.16 ohm speakers. Eollly
 2K" D. Completo with implified instructions. Shpo. wt.,
LN-2in 2.Woy Crossover Notwork With Contral....Net 7.95

## CONE TYPE METAL-CASED HI-FI TWEETER

- FREQUENCY RESPONSE 2000-16,000 CPS


## - MANDLES 20 WATTS

- IMPORTED TO SAVE YOU MONEY

Without doubt one of the finest cone type high freavency Fwoetert we hove over toitod, and is excoeded in pery. formance only by diophrogm irpe tweoters. It lis porticu. lorly efficiont in the higher ond af the audio spectrum
where ordinary cone iwestors itend to loie clority and vol.
ume. With this tweeter added ta your present systom, you wll be abte to hear all the fine transients and high notes of the uppor repister of they wore octually recorded. En. itrolf, enclosed in metal cate with base for standing by for mountingnting on a flot wurfoce. Brocket is supplied for mounting on ponel or in cabinel. Requires srossover
 MK.3-Mi.fi Imeetornsime. $\qquad$ Not 3.95

## HIGH FREQUENCY TWEETER WITH ACOUSTIC LENS

DIRECT IMPORTATION MAKES THIS PRICE POSSIELEI - FREQUENCY RESPONSE FROM 2000 CPS TO EEYOND AUDIEILITY LOUVERED ACOUSTIC LENS FOR UNI. FORM SOUND DISPERSION MANDLES 25 WATIS OF POWER PRICED EXCEPTIONALIY LOW

Now high frequency iweater feoturing a lowvered acoustic loni for unifarm sound dispersion and copoble of handling

## Newl Lafayette COMPRESSION-HORN TWEETER

- RESPONSE 1500-16,000 CPS - 20 WATIS - EX. PONENTIAL HORN FOR 2-WAY, 3-WAY OL 4-WAY SPEAKER SYSTEMS WIDE-ANGLE DISPERSION OF NIGHS - FOR TOP OR IN-CABIMET MOUNTINC
A high quolity compression driver iweeter in which careful engincering derign ond poinstaking manufacturing pro. cition ore cambined to provide ofrequency response of $1500.10,000$ cps, c continuous.duty roting of 20 watts, plue oracoful styling to permit mounting on top of the Epeaker enclesure, of, optlonally, within the enclowre.

3x-105
8.95

3x-121
2.95

Page 56
veritical positioning of the mouth of the erponentiol horn
provides widest dispertion of high freavencies of cor-

## NEWI METAL CASED TWEETER

- PREQUENCY LESPONSE 3,000-16,000 CPS - MANDLES 20 WATTS OF POWER
- ChOICE OF OR 16 OHM IMPEDANCE

The modert price of this tweoter oiver no indicalion ar to its high quolity. Smooth, illiky repraduction of the high trequencles olang with on even tound dispetion is in. sured by the use of the round cone. The twester assombly

SK-10S-Comprestien-driver Morn Tweeter deep. Shpe. wt., 21/ Ibs.
SK-121 8 ohm Iweeter
SK- 122 ohm Iweeter
hoight. With chrome-plated fork-ipes swivel bese. Pius density is a high 13,500 goust for greatest efficiency: crostover cange is 2800 cpt or higher, with $4000-5000$ cps recemmended for 3 -way iyutems the wide, imooth responie range permiti If to be wsed with 2., 3., or 4 -woy specker sytems. The erponentiol horn ls: heovy one. plece casting noh.resonant within the oudible freauency renge. Volce coil impedonce is 8.18 ohms Chrome.ploted acrew terminoli for eory connactlons, Overall heloti with swival stand is $41 / 4 \mathrm{~m}$, width $21 / \mathrm{m}^{\mathrm{N}}$, behind.ponel mounting requires a reciangular cutout (lang oxis vertical) mounting $4.3 / 16^{\circ}$ a reciongular culout (long oxis vertical) $1 \frac{1 / 4}{}$

Net 8.93
encased in an attractive Sotin Cold metal. As a result of the reor casing on the iwseter, ipeoker Interactlon botween ppokers has been ollminoted allowing for the plocement of tho iwestor in the same enclazure with the woofer and mid-range speakert. Supplied with tifurdy atlached mount. ing tand and $21 / 1 \mathrm{fr}$. hoak-up cord. Size $2 \%$ "dlam. I $2^{\prime \prime}$

Net 2.05
Net 2.95
Not 2.95


llere is an outstanding 3-way high fidelity speaker system which we are indeed proud to be able to offer. It includes a group of speakers customi-made for Lafayelte by Coodmans, famous English manufacturer of some of the world's best hlgh fidelity facturer of some of the world The system is ideal for installation in speakers. The system is ideal for installation in the extremely wide ranke of 30 to 16,000 cps ( 8 db down at 20,000 cps) smoothly and without unpleasant peaks. Power handling capacity of the system is 30 watts of integrated program material. Included in the system are the Lafaycte-Coodmans Sk-102 $12^{\prime \prime}$ woofer covering the range from 30 to 700 cps , the Lafayette-Coodnuans SK-103 $8 \frac{1 / 20}{}$ midrance syeaker covering 700 to $5,000 \mathrm{cps}$, and the Lafayette - Coodmans SK-104 compression - driver tweeter operating at from $5,000 \mathrm{cps}$ to over 16,000 cps. Also included is the Lafayefte LN- K inductancecapsacitance ( $\mathrm{L} / \mathrm{C}$ ) crossover network with attached Brilliance (hish frequency) and Presence (midBrilliance (hishofrequency) and Pontrols. System impedance is 16 ohms. This a really xreat system at an unusually low pricet Shpg, wh., 25 lbs

## LAFAYETTE-GOODMANS $15^{\prime \prime}$ 3-WAY SYSTEM

An outstanding 3.way speoker systom similor to $\$ 7.163$ systom obove, but foaturing the new $\$ K-101$ is Lofayette-Goodmans woofer for extro high efficiency even of suboudible frequancles. System response 25 to $\begin{array}{ll}6.000 & \mathrm{cps} \text {. Complete with LN-5 crossover notwork ond } \\ 5 K .103 \\ 81 / 2 \text { midronge speaker ond SK-104 fweeter. A }\end{array}$ superb speaker iystem with wide, smooth response and o new low in distortion and tone colaration. W $\mathrm{F} ., 30 \mathrm{lbs}$. SY-177 WX Lofoyette-Goodmons 3-Woy is' Speaker system

## LAFAYETTE-GOODMANS 2-WAY SPEAKER SYSTEM



> Extro performonce volue in o fine 2-way spooker syifem, Uilng the excelient Lofoyelte-Goodmons SK-101 $15^{\prime \prime}$ Woaler and the SK- 104 Tweoter, this system ochieves a now standord of wide respanse, excellent linearity and low distartion - and all of this low, low price. This group of speokers, custam-mode for Lafoyette by Goodmans, is carofully designed and manufactured by mostor craftimen with a tradition of fine workmanship. The result is superiar hi-fi sound, clean and smaoth from 25 to 16,000 cyclos (only 8 db down of 20,000 cyclosl). Even with full 30 watt progrom input. this system reproduces it with ase and procision. Also included is the Lofayolls IN2-B L/C Crassover nutwark with buill-in high frequency " Br itliance" level control. This system is ideally installed "Briflianes iovel conirol. This system is ideoly insioled if buyl Shpg. wi., 21 lbs.
I buyl Shpg. Wi.. 21
Lofores. Goodmons 2 -woy Speoker System.
Lofoyelfa.Goodmons 2.woy Speo
SY-178 WX........... 5.00 Down

Made to Lafayefte's own rigid specifications LAFAYETTE-GOODMANS $15^{\prime \prime}$ WOOFER An all new $15^{\text {² }}$ low-frequency speaker featuring smooth powefful reproduction down into the sub-dudible frequencles. its rigid construction and high efficiency design permit the reproduction of even the loudest low frequency transient without ringing of distortion. Response 25 to 7000 cps . Alco max magnet with flux density of 13,000 lines and total flux of 89,500 maxwells assupes the utmost Iinearity at full power -30 watts of program material. Volce coil diameter $13 / 4$ Impedance 16 ohms. Shpg. wt., 15 Ibs.
SK 101 W-15" Lafayette-Goodmans Woofer Net 28.50

## LAFAYETTE-GOODMANS $12^{\prime \prime}$ WOOFER

A highly-efficient low-frequency transducer for falthful reproduction of the lowest audible Ireguencles without tone coloration or distortion. Incorporates high fluz Alcemar magnets for smooth response and good power sensitivity. Frequency response is $30-7,000 \mathrm{cps}$, with recommended crossover at 700101000 cps . Total flur is 89,500 maxwells; voice coil diameter is $11 / 4^{\prime \prime}$. Rated at 30 watts power handling capacity for integrated program material in a muitipie speaker sysiem with an crossover network. volce coll impedanc SK-102 12" Lafayette-Goodmans Woofer Net 23.50 TAFAFITEN $81 / 2$ MIDRANGE SPEAKER goodmans

## By MIDRANE SPEA

A sweet-sounding high-fidellity :eproducer capable of doing full lus tice to the most important range of musical reproduction - the mid frequency range from 500 to $5,000 \mathrm{cps}$. Incorporates nigh efticlency Alcomax magnets, a spectialy constructed cone with an accoration fold" halff may down for smooth sound reproduction rree from peats and distortion; plus a completely sealed rear housing to prevent
 tow end 5000 cos at the high end in a 3 -way system. Maknet total fow is 32.900 maxweils. Voice coll dameter is $1^{\prime \prime}$. Power rating is


SK-103 81/2" Lafayette-Goodmans Midranke Net 5.95 high frequency DRIVER and HORN A nighly efficient compression-type wide angle radiator tor the higher audio frequencios. With high llux alcomax magnets. Rigid plastic horn with circular mouth and special design acoustic chamber with phasing plug achieves smooth wide-angle distribution to extremely high frequencles. Horn diameter $21 / 2^{\prime \prime}$, mouth opening $15 \%$ diam. Pof diameter $\mathbf{2 5 月 "}^{3 \prime}$. Overall depth $\mathbf{3 "}^{\prime \prime}$. Frequency response 2500 to $16,000 \mathrm{cDs} ; 8 \mathrm{db}$ down at $20,000 \mathrm{cps}$. Magnet fux is $25,400 \mathrm{max}$ wells. Voice coll diameter is 1. Recommer cps. Power rating is 30 watts program materlal in a 3 -way system oice coll
SK-104 Lafayette-Goodmans Tweeter . . . . Net 10.95
NEW! LAFAYETTE SK-130 $8^{\prime \prime}$ EXTENDED
11.95


## NEW! LAFAYETTE SK-130 $8^{\prime \prime}$ EXTEND RANGE HIGH- FIDELITY SPEAKER

- fREQUENCY RESPONSE 40 TO 18.000 CPS. - 15 OUNCE high efficiency "alcomax" magnet oflux density 13.000 GAUSS - 1 "VOICE COIL

Made with iypical British craftsmon- ship-thish one of the sweetest, smoothest sounding $8^{\text {"r }}$ speakers we hove heard, A is ounce Alsomox ring mognet plus o hyperbolic cone ore utilized to moke it ideol for uso os oxtonsion of midronge speoker- or ufllizing two-iust the thing tor sterea. Copoble of handling ofull 15 Wolis of pawer and has a valce cail impedance of 16 ohm Shpg. wi., 3 lbs.
SK-130 8 $\mathrm{B}^{\mathrm{m}}$ EXTENDED RANGE SPEAKER.

## FISHER XP-1 DELUXE BOOKSHELF SPEAKER SYSTEM <br> - Response 30.15,000 cycles <br> - Handles Up Jo 60 Watts <br> - High Compliance Plus High Efficiency

Thls now, compoct, full range speaker system uses on, 12 inch woofer and iwo 5 inch iweeters to produce a clean overall response of 30 to 15,000 cycles. The woofer has a 2 inch voice coll. O flux density of over 12,500 gouss, and a resonant trequency well under 30 cycles. The system handles up to 60 watls, but becouse of its high efflciency, con be used even with o modest 10 waft omplifier. Electrical crassaver is provided by a crassover netwark utlizing all-filled candensers and on oir-call. Hermetically seoled ond in slim-line, bookshelf size, the onclasure con be used anywhere, horizontally or vertically. The Presence/Brilliance caniral and speaker ferminols lacoled of the rear ore recessed for further convenience. The pratective and decarative speaker orille is designed for high frequency dispersion, ond is completely free of parasitie vibrotion.
Heovily lined with Acoustic glass, If is ovallable in three rich woad finishes - MohoeHolnut, and Cherry. Also ovailoble os unfinished Birch, reody for staining. Sizes $13 \%^{\prime \prime}$ by $24^{\prime \prime}$ by $11 \%^{\prime \prime}$ front-fo-bock. Shpo. wh. 40 lbs.
GE-450WX Fisher XP-1 Mohogony ................ 12.95 Down GB-45iWX Wolnut
12.95 Down GB-451WX Wolnut
12.95 Down GB-452WX Cherfy ...........................................12.45 Down

Net 129.50
Net 129.50
Not 129.50
Net 124.50

#  

 AT TREMENDOUS SAVINGS TO YOUI


## LAFAYETTE UNIVERSAL HI-FI BASS REFLEX ENCLOSURE KITS

EASIEST TO ASSEMBLE-ALL YOU NEED IS A SCREWDRIVERI $1 / 4$ WHITE BICH PRECISION-CUT-PITS TOGETMER SMOOTMLY - PER. FECT FOR SINGLE WIDE RANGE, 2-WAY OR J.WAY SPEAKE異 SYSTEMS

- HIGHEOY OR LOWEOY STYIE

All piecer of these corofully designed bass rellex high fidelity speoker en closures ore occurately procut of $1 / 4^{\prime \prime}$ veneers to 1 it inualy together and elimi note purious resonances. Front panels ore handsomely detalled with plature. a blend with any covered with pleasingly decorotive plastic acoustic grille protected by good-looking bross ferrules. Acoutractively lapered offset legs are revent reverberotion and brosi ferrules. Acoustic lining maturiol is provided io peater plus adon provided for 15 peaker plus odapler for $12^{\prime \prime}, 81^{\prime \prime \prime}$ or $8^{\prime \prime}$ midrange plus adapter for $5^{\prime \prime}$ and blonk wood block if na midrange seoker is used; densen compression horn 04W Iwlus odapter for Lafoyette HK-3. HW. 7 or Lafayette.Goodmant $\$$ W. ide forer and blonk wood block if ne lweeter is used. So, ony single ide-range 12 or 15 peoker moy be used, or any Loloyelle 2. or 3.way peaker system, or cimost any ormer combination of speokert. Kits are supplied unfinished, smoolthly sonded and ready for finishing. The lowboy style cabinet Mimensions are lless legt $28 \%$ w $x 23 \mathrm{Kh} \mathrm{x}^{\circ 1} 16 \frac{1}{4 \prime \prime} \mathrm{~d}_{3}$ legs ore $5^{\prime \prime} \mathrm{high}$ Mighbor has some dimensions with height and width interchanged Instruc tions, all parts, hardware, and grille are included with each kit. Shpg. wt. 54 Ibs.
CK-10WX Unfinished Mighbor Enclosure Kil .........5.00 Down....... Nel 29.50 CK-11WX Unfinished lowber Enclosupe Kit …......5.00 Down Net 29.50

## ASSEMBLED ENCLOSURES

Factory-Asembled Boss Reflex Enclosures same of the Lafoyette kits obove but mocraryressembled and fornished in lustrous, hand rubbed mohogany or blonde 10 ovailable ossembled but stondords of high quality fine.furnifure finishes. Also CAB-IJWX Assembled Uninith. Mig. Wh., 34 lbs. CAB-19WX Hishboy Assemblod, finlshed in
(oleose highboy Aisembled, finlshed In Mohogany or Blonde CAE-21WX Mighby
CAB- 21 WX Mighbor Assombled in Wolnut Inish
CAB-14WX Assembled, Unfinlshed Lawbo
CAE-20WX Mohogony or Blonde Lowboy, completely ossembled (Please specify chaice of tindsh)

Net 39.50

CAE-22WX Lowboy Assembled, in Wolnut finizh
Net 49.50
Net 52.50
Net 39.50
Net 49.50

For Lafoyette finishing kits to obtoin professional-like furniture finlthes please refer to onather section on this page.

LAFAYETTE'S PROFESSIONAL FINISHING KITS


- TRULY PROFESSIONAL FINISH

COMPLETE WITH EVERYTHING YOU NEED 3.87 A real deluxe linishing kit contoining all you noed to give a professianal fur nifure finish to your cabinets. There is nothing exro pa buy ond no mizn of ingredients requifed, Kit cantains 2 sans of high glass vars plus camplete cosh of filler-stain, sooler, and solvent, brush ond sondpaper plow dow be sur orised of how your linished cobinat will campare with cammercial work be couse the kit was designed by prolessional woadworkers. Shpg. wi., 6 lbs.
couse the kit wo

| Stack Na . | Pinish | Not |
| :---: | :---: | :---: |
| MS.584 | Wolnut |  |
| MS.585 | Mohosany | 3.87 |
| MS.586 | Cruitwaod | 3.87 |
| MS. 587 | Chorry Oak | 3.87 |
| MS.388 | Mople | 3.87 |
| mS.698 MS.697 | Horvelt Whaot | 3.87 |
| M5.589 | Ebony | 3.87 |

## LAFAYETTE 3-WAY SYSTEM


3.Way System Includes - 12.INCH WOOPE WITH 21.5 OZ. MAGNET (SK-68W)

- METAL.CASED CONE SYEAKER (SK-7UW
J.WAT CROSSOVER TYPE MI-FI TWEEPE異 (NK. 3 ) CONTINUOUSIY VARIA TORK WITH
GRILUANCE CONTROLS (IN PRESENCE A
Here is onother 3 .
you money ond make your ners system designed to sove easy. Touly o rriumph your noxt hi-fi project quick ond bination sreosed in the field of ocoustiss. This cam music layers at intense interest with budget.minded cousce of its un various trode and consumer shoms bo panent is unusual performance capobiltties. Each bem ponem is specilicolly designed to ceproduce its SK.68W in oplimum fidelliy. The system cansiut own low boss $12^{\prime \prime}$ Woofer that gives exceptionally clean the low bast frequencies from 35 to 350 cycles clean mel. 350 priver which reproduces the midirange rreavencies from 350 to 5000 cycles clearly and irve-to-life, and thes fram mefal-cased HK-3 Migh Fiequency Twoeter which new cides beilliont treble respome in the 5000 which pro. cycle rezion. The IN. 3 Crossover Network, crassing 16,000 of 150 and 5000 CPS, compleies this ultra crossing over tem. Mos "Brilliance" and "Presence" cantrals. Shpe.
wh., 22 lbs. SY.92WX

38.50


## 

Famous

## 3 -WhY SYTTEM

with 15" WOOFER... 8" MID-RANGE
SPEAKER... HORN TWEETER...

## CROSSOVER NETWORK

### 55.50

## ONLY 5.50 DOWN \$5.00 MONTHLY



- 15.INCH WOOFER WITH 31.5 OZ. MAGNET (SK-67W) - 8-INCH MID.RANOE SPEAKER (SK.74W)
- 3-WAY CROSSOVER NETWORK (LN.5)

Lafayette presents this outstanding 3.way speaker system designed for the high fidelity enthuslast who desires perform. ance formerly possible in multispeaker systems costing many times this price. ou wont bolleve your ears when you haar the superb reproduction throughout the entire audio spectrum. The Sk. 67 W Wool response, the SK. 74 W 8 " speaker delivers full bodied, mid-range frequencies, and the 350 and 5000 cycles are provided lens tweeter faithfully reproduces the highest audible requencios. Crossover points a 3 and brilitance controls that adjust by the LN. 5 3.way inductance capacitance notwork tóne balance to personal taste. Shps. Wh.. 25 lbs.
sY-93WX. Complete system as listed above

EXPLOOED VIEW SHOWS HOW SYSTEMS MOUNT in cabinet


## NEW! CELESTIAL AND GALAXY STEREO I]

 Lafayette deluxe celestial -
## SATELLITE SPEAKER SYSTEM

## A DYNAMIC NEW DIMENSION IN STEREO

- frequency response 20-20,000 CPS - 12" HIGH COMPLIANCE DUAL VOICE COIL WOOFER WITH 2 LB. ALNICO V MAGNET AND exclusive lafayette eliptoflex cabinet - 3-Channel wide PANORAMIC SOUND ENDS "HOLE IN THE MIDDLE" OR "PING PONG" EFFECT
Lofoyette research and engineering fasilities have evolved a new concept in stereo speaker systems. Research has proven that the low bass frequencies are nondirectional. By employing o newly designed high complianse $12^{\prime \prime}$ dual vaice coil woofer with 2 Ib. Alnico $V$ magnet, Lofayette engineers have utilized this phenomenon. Bass fre quencies below 350 eps are directed from their respective stereo channels to two elec. trically separate voice coils. In this manner both bass signals are blended through the single woofer cone assembly, which cambined with the revolutionary Lafoyette Eliproflex bookshalf enclosure produces o robust, exiremely smooth, bolanced low frequeney response down to 20 cps. Extensive laboratory and listening tesss confirm this combination of $12^{\prime \prime}$ dual voise coil woofer with Lafayette Eliptaflex Bookshelf Enclosure, the equal or superior to onything yet conceived. The two Satellite speaker systems consisting of 2-Lofayette SK-128 Ultro-Lincor $8^{\prime \prime}$ Duaxial speokers in especially designed $3 /{ }^{n}$ " wood enclosures, reproduce oll the boss overiones, middle and high frequencies.


#### Abstract

In this manner use of a normal standard 2 -chonnel amplifier, 3-channel wide panoramic stereo sound is oshieved without the annoying "hole in the middle" or "ping pong" effect so often found in conventionol stereo speoker systems. A large symphony archestra sproads across the entire area, while a soloist or smoll musicol group is properly located neor the center. Conventional stereo speoker systems require large areas of spose with the distonce between speaker ond location of the listening orea in relotion to these speokers extremely critical-Not so the Lofoyette ancing acoustics. Sotellites moy be placed in ony position along the room thigh ar low and moy be seporated by os much os 20 feet pith the Celestiol low freavency bow and unit locoled ony distance between sotellies as can welcome stereo into your home without the need of rearranging furniture. Avoiloble in Mohogany or Wolnut-finished an 4 sides for olvactive horizontal Avoil placement Dimensions ore. $14^{\prime \prime \prime} H H^{23.7 / 16^{\prime \prime}} W^{\prime \prime} 13.5 / 16^{\prime \prime}$ D for Celestat  Power Handling Capasity 30 waits. Impedonce 8 ohms. Shpg. wf., 74 lbs. Supplied cample'e with necessory instrustions ond hoak up coble. LAFAYETTE DELUXE CELESTIAL-SATELLITE FINISHED IN MAHOGANY SY-373WX ENCIOSURES FINISHED 10.95 Down 9.00 Monthly Net 109.50 sy-374wX


Only 10.95 Down 9.00 Monthly
Nef 109.50

## LAFAYETTE ECONOMY CELESTIAL-SATELLITE STEREO SPEAKER SYSTEM

- FREQUENCY RESPONSE 25-16,000 CPS - 8" HIGH COMPLIANCE DUAL VOICE COIL WOOFER WITH 2 LB. ALNICO Y MAGNET 3 . CHANNEL WIDE PANORAMIC SOUND FROM A NORMAL STANDARD 2CHANNEL STEREO AMPLIFIER


## ONLY 7.45 DOWN 7.00 MONTHLY 7.50

The Lafoyette engineering staff was loced with the chollenge of developing a high quality, campoct, inexpensive, 3-channel stereo speaker system reflecting the some excellence and desion principles of the larger Deluze Lafoyetie Celestial Sotellite Siereo Speaker System, Results for exceeded our fondest expectations. Low frequencies below 350 eps are fed from their respective stereo chonnels, info iwo electrically separate voice coils of a new high compliance $8^{\prime \prime}$ dual voice coll woofer with 2 lb magnet, housed in an especially engineered rear vented duct port enclosure. This new wooter produces a rich, full bodied bass response with excellent transient charos. terlsfics. Middle ond high frequensies ore produced by two Sotellite $8^{\prime \prime}$ speoker sys tems of a unique duol cone construction. The two cones literally float on flexible cor. rugated edges, one within the other, resulting in a mechonical crossover-the larger cone produces midfrequencies, but only the small inside cone rodiates high freauencies, Solellite enclosures are constructed with o sloping front, moking it possible to aim the Sotellite toward the listening areo.

This conamical 3-channel Lafoyette Celestiol-Satellite Slereo Speaker system produces a qualify of sound far in ercess of its small size and reasonoble price. A clarity and 2-channel stereo speakers. Balance contrals provide just the right degree of batance for your listening fastes and roam acoustics. The lacation of these speakers are not critical-Sotellites moy be separated by the full width or length of the room with the Celestial bass unit at any polnt belween Satellites. Best of oll-the small size of this system practically eliminotes upsetting changes in room decor. Finished on 4 sides in choice of Mahogany or Walnut for vertical or horizontal placement. Power hond-
 Shpg. W1.. 35 lbs. Supplied complete with necessory instructions and hook up cable. LAFAYETTE ECONOMY CELESTIAL-SATELLITE SPEAKER SYSTEM IN MAHOGANY SK-142WX


DUAL CONE $8^{\prime \prime}$ SATELLITE SPEAKER SYS. TEMS WITH SLOPING FRONT ENCLOSURES


SK-1398 DUAL VOICE COIL WOOFER IN SPECIAL REAR VENTED DUCT PORT ENCLOSURE

## SPEAKER SYSTEMS-A NEW HIGH IN STEREO SOUND



## densen GALAXY*II

## SATELLITE STEREO SPEAKER SYSTEM

The new Jensen Galaxy If stereo speaker system achieves wide panoramic stereo thound from two tiny atellites and o single small bookshelf size unif. low boss fre-
 quencies below 350 CDI from both storeo channeis are repreduces by blen bookshelf volce coil 8 . Fienair woofer contained in o the
 is maintained by the spaced Satellite Uni
de-frequencies and high-frequeney ranges.
The Calosy II provides the equivalent of two complete 3.way tereo speaker systems The Golesy II provides the equivalent af two complete 3.way tiereo speaker systems
(frequency Response 36.14000 eps). white affording complet flexibility os to room
 placement. Boss-Center Unit moy be placed on floor or shelf as convenience ond
decor dictote. Satoltites mar be mounted high or low on end, side or odjocent with decor dictate. Sore feot opart. Swivel odiustments make possible Sotellite oiming for isophonic coverepe over a latge listening oreo without disturbing enisting room decor. Attractively finished on 4 sides In a choice of Wolnut, Towny Ash or Mohogony. Oimensions: Bass Center Uniti $12 \%^{\prime \prime} \mathrm{H}=24^{\prime \prime} \mathrm{W}=10 \frac{1 / 2 " 0}{} \mathrm{O}$ end, $11 \mathrm{~K}^{\prime \prime}$ centep. Satellite: $111 / "^{\prime \prime} \mathrm{H}$ स $71 / \mathrm{s}^{\prime \prime} \mathrm{W}: 2^{\prime \prime} \mathrm{D}$. Complete with instructions, 20 ft . cord, plug connections and iwivel yokes for Salellites. Shpe. wl.. $47 \% \mathrm{lbs}$.
JENSEN GALAXY II (Specify finish)
GE-2I3WX ............................. 10.95 Down
Nel 109.50
Floop Base for Boss.Conter Unil odd gracaful furniture touch, Roiset sobinet $3 \% /{ }^{\prime \prime}$ off floor. Shpo. wi., $1 \%$ lbs. GE.211-JENSEN S7.972 FLOOR BASS................................................... Build your own Galany II Stereo Speaker Systems. Kit includes all speakers and -lectrical companents, includet hard to make parti and hardware (speakers, dual channel netwark, enclosupo vent tube, 20 ft . cords with plugs attached, finished mount. ing yokes, plostic covers, mounting hordwore and grille cloth assembliest. Shpo. wt. 21 lbs.
JENSEN KTG. 2 GAlAXY \| KIF
GB-214WX

## ACOUSTIC BAND EXTENDERS

THREE BAND EXTENDER<br>Converts Any 12" Hi-Fi Speaker To A Complete 4-Way System



- mounts axially on 12" SPEAKER - ELIMINAYES EXTRA CARPENTRY
- 3-WAY INTEGRATED SPEAKER - FROM 1,000 TO 18,000 CPS 25 WATTS RATING BUILT -IN CROSSOVER
A real boon to the hilil enthusiost who hos a single speoker and wants to extend the upper tonal range of his iystem and at the some lime improve the vital middle ronges for befter reollsm and fullef enjoyment. The Acoustic Band Eatender includes 3 acous. fic chonnels in one housing. One channel, 1.3 .5 kc , is a rear loading erponentiol dual flased horn energlzed by the rear of the driver diaphragm. The second channel, 3.5 to 5.5 kc , is a front-loading dual horm, while the third chonnel, 5.5 to 18 ke, is cirect free operture loaded. Wide angle sound radiation is assured by the dasign for tharough distribution of the added brllliance and presence supplied by this unit. The driver unit has a highiy efficient 3.2 oz . Alnico 5 llug magnot and a custom-molded Iinen phenolis diophrogm for minimol distertion. Built-in 1000 cps high-pass filter.
Univertal mounting-resti within $12^{N}$ speoker-or may be mounfed seporately with - $10 \% \%^{\prime \prime}$ m $31 / 4^{\prime \prime}$ rectongular cutow. Impedanco ohmss power honding 25 wolls. Shpg. wl., $21 / \mathrm{lbs}$. Shpg. wi
sk- 120


## TWO BAND EXTENDER

IMPROVE THE MIORANGE AND TREBLE RESPONSE OF TOUR SPEAKER SYSTEM. This compoct new dasign provides o middle and high frequency response from 700 to obove $18,000 \mathrm{cps}$. The midrange response originates from the bock of the compression driver type diaphragm and is phose sorrected by the combined oction of the rear enclosure volume and vent area, then radiated by the flored vent extension. High frequencles originating from the front of the diaphropm ore phase corrected by the central open plug for moximum smoothness, then radiated through a semi-horn lood. keqvires 2" a $4^{\prime \prime}$ boffle opening. Shpg. wt., $2^{21 / n}$ lbs.
5K-140-MIORANGE ANO TREBLE EXTENDER Net 10.50
TOP BAND EXTENDER EXTENO YOUR HIGH FREOUENCY RESPONSE. An extremely efficient compression driven wide ongle Iweeter thot will improve the frequency response of ony apeaker system al any efficiency level. A frequency response of from 2000 to obove 18.000 cps is delivered by a combined diephragm phose corrocting and throal loading - lement, which smoothes the ertended high frequency response and insurei minimum throot distortion for oplimum cleanliness. Requires bofflo opening of $2^{\prime \prime}$ I $4^{\prime \prime}$. Shpg. wt. . $2^{1 / 2}$ lbs. SK.141 TOP BAND EXIENDER .............. 10.50


## THE VERY SAME STUDIO QUALITY WOOFERS EMPLOYED IN THE LAFAYETTE CELESTIAL-SATELLITE STEREO SPEAKER SYSTEMS

Lafayette High Compliance Dual-Voice Coil Stereo Woofers

Acoustical studies have shown thot low frequency response is nol directionol... indeed the stereo offect we heor is determined by freguencies obove 350 cps . This duol voice coll wooler feotures two lecirically separate voice coils on a single wooler chossls. Eoch voice coll receives low frequencles from its respoctive stereo chonnel. Both of theie slgnals ore blended through the single woofor cone. Thls odvonce in wooler design now makes possible

## $1 \mathbf{2}^{\prime \prime}$ DUAL VOICE COIL WOOFER

- FREQUENCY RESPONSE 20-2500 CPS 2 LB. ALNICO $V$ MAGNET - $2^{\prime \prime}$ VOICE COIL - HIGN COMPLIANCE CONE FLOATS ON ROLLED CLOTHEDGES IMPEDANCE-EACH VOICE COIL B-OHMS POWER MANDLING CAPACITY 30-WATTS SK-133 Shpg. wl., $10 \frac{1}{2} \mathrm{lbs}$
3.chonnel stereo without the need of complicoted costly control filters or adopter networks.

Now lafayette offers there odvonced destgn duol voice coil woofors for the high.fidelity enthusiast who wishes to build his own 3-chonnet stereo speoker syitem-or use it as the basis of a monoural syitem now and eventually work into o 3 -chonnel stereo syitem.

## 8" DUAL VOICE COIL WOOFER

- PREQUENCY RESPONSE 25.3000 CPS 2 LB. ALNICO V MAGNET - 2" VOICE COIL - HIGH COMPLIANCE CONE FLOATS ON ROLLED CLOTHEDGES IMPEDANCE -EACH VOICE COIL 8-OHMS POWER HANDLING CAPACITY 30.WATYS SK-139 Shpg, wh., $81 / 3$ lbs.



# LAFAYETTE HI-FI SPEAKER ENCLOSURES FOR UNITARY 2-WAY-3-WAY SPEAKER SYSTEMS 

 ENCIOSURE CAB.16WX-17WX


BASIC INTERNAL CONSTRUETION OF lafayette universal mi.fi SPEAKER ENCIOSURES


## LAFAYETTE RESONATOR ENCLOSURES

THE CABINET-New, lowboy consolette bass reflex cabinet for $12^{\prime \prime}$ high fidelity speakers. Completely assembled and finished unit constructed of an" stock of the finest genuine mahogany and walnut veneers. Solidly built and acoustically designed to provide wide range frequency response without reverberation or vibration. Cabinet is lined with acoustic material to prevent cabinet resonance. Front panel has at-
tractive picture frame molding and fine quality plastic grille cloth that for $12^{\prime \prime}$ speaker. Dimensions: $20^{\prime \prime}$ approximately 4.3 cubic feet. Cutout 38 lbs. speaker. Dimensions: $20^{\prime \prime}$ wide, $23^{\prime \prime}$ high, $16^{\prime \prime}$ deep. Shpg. wt.. CAB. IOWX Finished Cobinet only (Spacily Wolnut or Mahogony). CAB.17WX Some os above in Blonde finish.

## LAFAYETTE UNIVERSAL HI-FI SPEAKER ENCLOSURES

LAFAYETTE UNIVERSAL SPEAKER ENCLOSURES are "univerSal" in the sense that almost any combination of speakers can be installed in the cabinet. Has cutout for 15" speaker plus adapter for 12". Also a cutout for $8^{1 / 2^{\prime \prime}}$ or $8^{\prime \prime}$ speaker plus adapter for $5^{\prime \prime}$ and blank wood block if
such speakers are not desired. In addition, a tweeter opening is pro HW. 7 for most standard tweeters, plus adapter for Lafayette HK.3 HW- 7 or Lafayette-Goodmans SK-104 tweeters plus blank wood block
If no tweeter is used.

## UNIVERSAL BASS REFLEX ENCLOSURES

Solidly constructed of $\mathrm{Ha}_{\text {" }}$ stock. Finished models of genuine veneers of the original wood. Universal speaker panel is detailed with picture frame molding and covered with pleasing plastic grille. $5^{\prime \prime}$ tapered offset legs are edge-tipped with brass ferrites, Lined internally with acoustic materlat. Size of lowboy (less legs): $28 \%$ " $w, 23^{1 / 2 " h} h, 16 \frac{1 / 2}{}$ d. Same
size for highboy with height and width interchanged. Shpg. wi., 54 Ibs. CAB-13WX Highboy, CAB-14WX Lowboy. Unfinished.................. Net 39.50 CAB-19WX Mighbor; CAB.20WX Lowbor. In Mohogony or Blonde (please specify
CAB-21WX Highboy, CAB. 22 WX Lowbor, in Wolnut

## SPECIAL MONEY SAVING COMBINATIONS-LAFAYETTE CABINETS AND NATIONALLY FAMOUS SPEAKERS

| Stock Mo. | Speaker | Enclosure | Reg. Price |  | Shock No. | Speoker | Entlosure | Reg. Price | Special Combin Price |  |  | cette Delu | ETTE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Univorsity UC-153 | CAB. 23 | 221 131 13 1 24 | 101.75 |  |  |  |  | $\begin{array}{rl} 93 & 50 \\ 103 & 50 \\ 106.5 \\ 193 & 50 \\ 106.55 \\ \hline \end{array}$ | Stoch Mo. | RESONATOR E | closure |  | Special |
| sy.386wx. |  | CAB. ${ }^{\text {che }}$ | 退 131.24 | 112.73 | SY 1980 l | Ejectrovolee 13519x | CAB-19 |  |  |  |  |  |  |  |
|  | (enter |  |  | (11.75 |  | (ectrovoice 15TMX |  |  |  |  |  | Enclosure | Reg. <br> Price | Combin ofion Prise |
| Sy ${ }_{\text {S }}$ | Untversidy ${ }^{312}$ | CAB. ${ }_{\text {CAB }}$ | 111 121 1204 | 92.79 202.78 | sr |  |  |  | $\begin{aligned} & 103.75 \\ & 103.75 \\ & 103.75 \\ & 10377 \\ & 10675 \end{aligned}$ |  | University UC.122 | ${ }_{\text {caser }}^{\text {CAB-17 }}$ | 62.33 84.33 | 54.62 <br> 56.62 |
|  |  | CAB-21 | 124.04 111 | 205.79 |  |  |  |  |  | Electrovolce Sp129 | CAB-16 | 63.80 | 53.50$\mathbf{5 3 . 5 0}$$\mathbf{5} 5.00$ |  |
|  | Universify 312 |  | (111.84 | (102.79 |  |  |  |  | Electro-vaice Spiza |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | Lalayctie 5K-58 | CAE-15 | 59.00 $61: 00$ | 53.00 <br> 57.00 |  |
|  |  |  | $\begin{aligned} & 104.18 \\ & 114.18 \\ & 117.18 \\ & 104.18 \\ & 114.18 \\ & 117.18 \end{aligned}$ | $\begin{aligned} & 84.75 \\ & 94.75 \\ & 97.75 \\ & 84.75 \\ & 94.75 \\ & 97.75 \end{aligned}$ |  |  | CAB. 13CAB.CABCABCAB 14CABCABCA | 89.001020108999.009.02102.00 |  | $\begin{aligned} & 76.50 \\ & \hline 86.50 \\ & 9.50 \\ & 76.50 \\ & 86.50 \\ & 89.50 \end{aligned}$ |  | Electro-Voice 12 ${ }^{\text {EPXB }}$ |  | 9. <br> 96.18 <br> 96.18 | 74.00 <br> 76.75 <br> 76.75 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | $\frac{96.18}{79.00}$ | 76.75 <br> 68.50 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 79.00 <br> 10.00 <br> 1.08 | 66. 50 <br> 68.50 <br> 8.79 |
|  |  |  |  |  |  |  |  |  | University 312 |  |  | CAE.19 | 201.04 | 82.79 84.79 |

## ROCKFORD EQUIPMENT AND RECORD CABINETS



Page 62


ROCKFORD 100 EQUIPMENT CABINET-Sturdily bulth of selected woods by furniture crofismen to protect the operoting stobility of your high fidelity components. Upper section of cobinet will house preamplifier and or amplifier, tuner, or tope recorder-player. Has drop front to keep open or closed. Lawer pull-aut drower section will mount a eceard changer or by means of a " $\mathbf{T}$ " adopter, a tronscription table mar be used. Overall sire $20^{\prime \prime} \mathrm{W} \times 321 / 2^{\prime \prime} \mathrm{H} \times$ $18^{" B}$. Shpg. wr., 49 lbs CAB.B7WX ROC'KFORD 100 EQUIPMENT CABINET (WALNUT) NET 52.50

LAFAYETTE FEATURES THE LARGEST SELECTION OF ENCLOSURES AND ENCLOSURE KITS

CAB-B8WX ROCKFORD 100 EQUIPMENT CABINET (MA. HOGANY) OAB-89WX NET 52.50 CAB-89WX ROCKFORO 100 EQUIPMENT CABINET
(BLOND) (BLOND)
CAB-9OWX ROCKFORD 100 EQUIPMENT CABINET 52.50 CAB-9OWX ROCKFORD 100 EQUIPMENT CABINET
(EBONY).............. NET 52.50 ROCKFORO "T" ADAPTER BOARD-Converts Rockford 100 Equipment Cobinet for use with $12^{\prime \prime}$ transcription furntables, Available in Wolnut, Mahogony, Bland, ond Ebany. CAB-91W (Please specify finish) ... NET 1.50 ROCKFORD 103 "ADD-ON" RECORD STORAG̈E CABINET - Expand your record storage spoce os you expond your recard collection. Removoble legs and channel construc. tion permlis easy slocking of these attroctive cabinets. Has drop front to close cabinet and keed records dust-free. Size with legs $20^{\prime \prime} \mathrm{W}=21 \%{ }^{\prime \prime} \mathrm{H} \equiv 18^{\prime \prime} \mathrm{D}$. Shpg. Wi., 38 Ibs. Size without legst $183 /{ }^{\prime \prime} \mathrm{H}$. Shpg. wi., 36 lbs .
CAB-95 WX Cobinet without legs (Wolnut) ... Nat 31.00 CAB-96WX Cobinet without legs (Mahogony) Net 31.00 CAB.97WX Cobinet without legs (Blond)... Net 31.00 CAB.98WX Cobinet without legs (Ebony).... Net 31.00 CAB-99WX Cobinet with legs (Wolnut) ...... Net 34.50 CAB. 100 WX Cobinet with legs (Mohogony) . Net 34.50 CAB.101WX Cabinet with legs (8land) .... Nol 34.50 CAB.102WX Cobinet with legs (Ebony) ..... Net 34.50

## WELLCOR High Fidelity Cabinets



## THE CONTINENTAL SERIES MATCHED EQUIPMENT AND SPEAKER ENCLOSURES

## S-12-15 SPEAKER ENCLOSURE

A componion console speaker enclosure for E1 and E2 in matching wood with wrap oround grill cloth. Motches equipment cabinets styling. $\%$ " veneer plywood construcaviomont cabine stoling. lion inroughou. Employing ducied pomportment copocity closure provides blh Cu. At. Tonal compartment copocity. Interior is ocoustically podded. Speaker board is pre-cut for mounting $15^{\prime \prime}$ speaker with a removable 12 adaptor ring for a $12^{\mu}$ speaker. Additional cavered cufouts for iweeters and horns. Mounting handware supplied. Sizol $32^{\prime \prime} \mathrm{H} \times 24^{\prime \prime} \mathrm{W} \times 20^{\prime \prime} \mathrm{D}+4^{\prime \prime}$ self-loveling legs. Shps.
wf. 52 lbs . W.. 52 lbs.

CAB.60WX-Mahogony ..........7.20 Down..........Net 72.00 CAB-61WX-limed Ook .......7.95 Down........Net 79.50 CAB-62WX-Walnut ….......7.95 Down...........Not 79.50 S8-12 Same as obove, excopt for $8^{\prime \prime}$ or $12^{\prime \prime}$ speaker.
 Shpe. wi. 37 lbs.
CAB. 63 WX Mohogony ..........5.20 Dawn...........Net 51.75 CAB-6AWX Limed Ook .........5.70 Down...........Net 57.00 CAB-65WX Wolnut.

## BS-8 BOOKSHELF OR TABLE

 TOP ENCLOSUREThis unit is for shelf installation or table top use. For on veneer plywood throughout. Ducted port principle and veneer plywood throughout. Ducred port principle mo. podded interiar. Hand rubbed finish Miches equipment hogony worm, $11 \mathrm{mH} 24^{\circ \mathrm{W}} \times 10 \frac{1}{2 / \mathrm{D}}$ cobinels and enclos
Shpg. Wt., 16 lbs.
CAB- 37 W - Mohogany
CAB-58W-Limed Ook
CAB.59W-Wolnut
5.00 Down
5.00 Dawn
5.00 Down

Net 29.00
Nel 32.00

## EI EQUIPMENT 20" CABINET

A true mosterpiece of furniture design in rich natural woods. This cabinet is engineered for the Stereo or Mi-fi audiophile. Accommodates funer, omplifior and preamp, shelf and/or ponel mounted. Chonger or turnioble with $16^{\prime \prime}$ orm. Tape recorder mounted on slide-out shelf, ample record storage space and separate tope storage campart. ment. Turntoble is tap loaded with all-position lid sup. port. Shock resistant rubber covered cleats for mounting boord. Recested hinged doors havo magnetic catches. Rugged construction of fine furniture craftsmanshio. Size $38 \% \%^{\prime \prime} \times 32^{\prime \prime} \mathrm{H}=20^{\prime \prime} \mathrm{D}+4^{\prime \prime}$ self leveling logs. Shpg. $38 \%$
$w+116 \mathrm{lbs}$.

CAB-54WX-Mohogony CAB-55WX-L1med Ook CAB-56WX-Walnut ..

## CS12-15 CORNER ENCLOSURE

Componion corner enclosure la El. Finished on oll sides in natural waods. Used for corner plocement or as a free standing unit. Veneer plywood throughout. Grill cloth won't muffle or rotard sound. Over $6 \mathrm{SU} . \mathrm{ft}$. tono comportmont of the GE Bass roflex type which is acoustically padded. Speakers ore installed through removable botlom. 15" cutout with removable 12" odopter ring for speokers. Additional covered outlofs fop tweeiers and horns. Mounting hordware supplied, Sizes 24 "W
$\times 20^{\circ} \mathrm{D}+4^{\prime \prime}$ self leveling legs. Shpg. wt., 49 lbs.


## GAMBOR JOHNSON EQUIPMENT CABINETS

- sollo walnut construction
- magnetic door catches
- concealed hinges
- CUSTOM STYLED TO YOUR SPECIFICATIONS

These cabinets are designed for custom Installotion of all populap makes of hiffi components. We deslen the expopular makes of you design the interior. Ample spose has been ollatied for recard changer, furntablo, ar tope iransport. iuner and omplifier. Spesial provisians are olso made far funer and omplifier. Spesial provisiant are olso made far using control panel as o shelf far supporting Cabinpts are above luner where culouts ore not desired. Cabinets are engineered to ossure proper vonfilo oion whil equipment
is operating. Specially destgned changer slide will not is operaling. Specially destgned changer slide will not dip when fully oxtended. Cantral ponel size $18 \%{ }^{\circ \prime} \mathrm{W} \times 15^{\prime \prime}$ in bock. Exterior size: $32 \%$ " $\mathrm{H}=20^{\prime \prime} \mathrm{W}$ $183 / \mathrm{m}^{2} \times 15$
$\times 181 / \mathrm{m}^{\prime} \mathrm{D}$. Shpg. wl., 61 lbs .

CAB-107WX-Walnut only ... 5.00 Down .... Net 49.95


BS-8


LE-5 EQUIPMENT CABINET

- natural wood veneers - hand rubbed finish This handsome cabinet looks more expensive than it is Houses ampllifier and/or pre-amp, luner on upper shelves, changer or turn-table on slide-aut lower shelf. Precision hinged door has a magnetic cafch for ease and efficiency of operation. At home in any decor, the "Cosmopolitan" is a fiting cobinet for the finest hi-fi componemts.
Shpg. wl. 50 lbs.
CAB-BIWX Hohed Ook CAB-82WX Wolnul
5.75 Down...........Not 57.50 LS-12 6.00 Dawn...........Nof 60.00


## LS-12-15 SPEAKER ENCLOSURE

Accommodates $15^{\prime \prime}$ speaker, romovable adapler ring sup. plled for 12" speaker. Additional covered cut-outs for mounting tweeters and horns. Maunting hardware sup. plied. This unit employs the dected port prineiple to give you full ocoustical efficiency and excellent bass repro duction. Rich looking grill cloth will nol mulfto or retard sound. Shpg. wt., 44 los.
CAB-77WX Mahogany .........5.00 Down....... Nol 46.50 CAB-78WX limed Oak ........5.00 Down............Net 48.35

## ELECTROSTATIC 3 ELEMENT TWEETER

## WAS 27.50 <br> NOW ONLY <br> $17^{50}$



SK-150 Mahogany Finish
Not 17.50 SK-13 Wolnu: Finish lolbs. SK-152 Blonde finith RECOMMENDED

## INSTALLATION ACCESSORIES

## seloct erossover notworks and l pads to mateh

 CROSSOVER NETVIOR̂K KITS instructions. Shpo. wt., 2 lbs.KT-128-8 ohm crossover kit (for AR.1. AR. 28 KLH-6) KT.129-16 ohm crossover kif (for KLH.4) Net 2.75

LAFAYETTE "L" PAD ATTENUATORS VC-49-8 ohm (for AR-2 \& XLH6) Shpo wi. 6 . 02. VC.50-16 ohm. Shpg. wh., 16 oz.

Not $1: 49$

## SAVE WITH THESE DO IT YOURSELF MUSIC SYSTEMS FEATURING LAFAYETTE HI-FI KITS



## TOP QUALITY DO-IT-YOURSELF STEREO HI-FI PHONO SYSTEM

## ONLY <br> 212.50 <br> - Lafayetto KT-250 so Watt Integrated Stereo Amplifier Kit <br> YOU SAVE 30.95 <br> - Glaser-Steers GS-77 Speed Stereo Record Changer (Less Base) <br> - Now GE VR-22 (.7 MIL) Stereo Cariridge with Dlamond Stylus <br> - 2-Lafoyette-Goodmans SK. 110 WX 12" 3-Way Speakers with $1 \frac{1}{4} \mathrm{lb}$. Magnefs.

Eniay the lotest steree records with superb high fidelity system. Truly breathtoking
sound reproduced realistically in yaur home. And you onjoy tremendous sovings by
$\begin{aligned} & \text { buying these compononts os a system ond assembling the omplifier. You can alio odd, } \\ & \text { of onny later date, o stereo tope deck ond/ar sterso } \mathrm{FM} / \mathrm{AM} \text { funer to complete your }\end{aligned}$
$\begin{array}{ll}\text { music conter. } \\ 25 \text { wolts oor stereo channel, or } 50 \text { walts if watt integrated stereo amplifier hit offert } \\ \text { wo }\end{array}$
cuch as seporato bass and trable controls for eoch channel and concentric eluteh-operoled
control for individual or simultaneous level odiustment ore incorporoted. Full flexi.
bility and smart styling keynote this new integrated stereo amplifier. The Glaser. Steeri:
GS. 77 sterea chonger is featured becouse of lis proven avality. The new GE VR. 22
steree cortridge with diomond sylus provides low tracking force and wide freavancy

> system inpolied with all interconecting with $1 \% \mathrm{lb}$. magnots.
> ossembly.

Camplate si
HF-692wX
reoo system as Same os HF-692WX, For Record Chonger Borb, See Index. closures or 2 Lafaye piluichoice of either 2 Lofoyotto Eliptoflex Series Bookshelf En. finish. Shps. wt., 150 lbs . MF70s WX

 Some or HF. 093 Wx , plus 2 lofoyelte CAB.19WX Series Universal Bosi Reflez En.


# OUTSTANDING DESIGN-NCOMPARABLE PERFORMANCE 

## 70-WATT DELUXE BASIC AMPLIFIER KIT

- FREQUENCY RESPONSE $10-100,000$ CPS $\pm 1$ DB AT 1 WATT POWER RESPONSE 20-20,000 CPS $\pm 1$ DB AT 70 WATTS WITH LESS THAN 2\% HARMONIC DISTORTION VARIABLE DAMPING -MATCHED-PAIR KT-88 OUTPUT TUBES - METERED BALANCE \& BIAS ADJUSTMENTS - ULTRA-STABLE CIRCUITRY - PRINTED-CIRCUIT WIRING - FAMED CHICAGO WIDE-RANGE LINEAR OUTPUT \& POWER


FEATURES: A very conservativaly rated amplifier designed for continuous heovy duly and specificolty intended as a perfect componion-piece for ony of the newest high. fidelity speokers ond components. The matched-pair push-pull KT -88's, normolly toproted af 100 wotts, ors usod for only 70 wolts moximum output. Similorly, only highest quality, conservalively-rated components are used throughoul.
To ochieve maximum stobility without regard to the kind of speaker lood ured, phose correction netwarks have been kopt to a minimum ond the power supply uses pure resistance-capacitance filtering to ovoid the potentiolly resonont and unstoble perform. ance of choke-filtered clircuits.
The calibroted voriable domping foctor control provides optimum performonce fram ony of the amplifier outpul tops with ony speaker system, without offecting volume level or frequency response. The control can be switched out of the circuit, if desired. The Balance Adjust Contral and Me:er enable you to match output fubes when they are replaced. The Bios odiusiment, also read on the built-in meter, is ofurther provision
for correct operotion of the output fubes when reploced ond is your ossurance of con. for correct operolion of the output tubes when reploced and is your assurance of con. tinuous top quality performonce.
SPECIFICATIONS: POWER OUTPUT: 70 wotts COntinuous sine wove, 80 wotts progrom moteriol, 160 wolts instontoneous peak. HUM AND NOISE, 90 db bolow rated oulput. HARMONIC DISTORIION: Less than $1 \%, 20.20,000$ cps. of 60 watts. $=1$ db, less than $2 \%$ at 70 wolts. IM DISTORTION. Below $11 / 2 \%$ of 70 Wolls ( 60 Ond 7000 CDS): less thon $1 \%$ of 60 watts and below $0.3 \%$ of 30 watts. FREQUENCY RESPONSE, $10.10,000 \mathrm{cDs} \pm 1 \mathrm{db}$ of 1 wolf with groduol controlled roll-olf obove $100,000 \mathrm{cps}$; $20.20,000$ cDs $\pm 1 \mathrm{db}$ of 70 wolts. STABILITY: No peaking or morginal instobility with reoctive loods. DAMPING FACTOR: Vorioble 0.5 to 12. INPUT SENSITIVITY: 2.0 volts for 70 watts output. CONTROLS: Colibroted voriable domping foctor control, blos adjust, balance odjust, ond meter iwitch. METER: Clear plostie.front rectongular meter. TUBES, 2.KTB8, OAN8, G234 (Rectifier) olus selenium rectifier. REAR PANEL: Incorporo:es octual socket designed for use in supplying power for preomplitier, 2 ouxillary
 4. 8 , and 16 ohms. Complete with all components and instruction monuals. SI2E: ihn KT-AOWX $\%^{\prime \prime} \mathrm{h}$. SHIPPING WEIC 05 D.
KT-400WX Same as obove, but completely wired ond tested 9.45 Down....... Net 94.50

## DO-IT-YOURSELF PROFESSIONAL STEREO HI-FI SYSTEM COMPONENTS



LAFAYETTE PK-27DW 12" TONE ARM
17.50 79.50 NEW GE VR-22 (.5 MIL) STEREO CARTRIDGE WITH DIAMOND STYLUS

## LAFAYETTE SYSTEM PRICE

Here is o stereo high fidelity system that you will be proud to own. Eoch component is on engineering feotl ll will provide not only unsurpossoble performonce buf olso tremendows sovings. If will afford mony pleasurable hours ofter you hove assembled os well os when you ore ossembling it. This system represents, indeed, o summation of the best audio engineering ochievements in the past decode with oxclusive features thot are yeors oheod of the presont. Shpe. wt., 195 Ibs. Complete slereo system as listed above. HF-716WX 43.95 Down ..................................... Net 43.50

Recommended enclosures tor the obove systems: Lofoyofte Universal Boss Reflex Enclosure Series. Refer to enclosure poges:
Wood bose for Lafoyotte PK-245WX. Specily finish.
PK-265 W
Nel 14.95
Same os MF. 716 WX. but with Lofoyetto PK-280W $10^{\prime \prime}$ Tone Arm insteod of PK. 270 Tone Arm. Shpg. wi., 190 Ibs.
44.15 Down

Net 441.50 MF. T ITMXX

2 Lofoyette.Goodmons SK. II AWX
12" speakers
 wh $61 / \mathrm{ib}$. magners and Choice of Series Resonolar Enclosures (specify enclosure ond

finish). Insteod of the 2 SK. 115 WX Speokers. Shpg.
$\mathrm{WF}-718 \mathrm{WX}$
Net 512.50

## SELECT YOUR OWN CARTRIDGE

You moy substitute the Shure M7D, Pickering 371 C or the new Electro.Voice 31 MD7 in substituted of on addltional cost of $\$ 24.00$.

# STEREO TUNER KIT 

THE STEREO-TUNERIS YEARS AHEAD


## THE LAFAYETTE STEREO.TUNER IS UNIQUE AND INCOMPARABLE

ONLY
$\$ 7.45$ DOWN \$8.00 MONTHLY


TME MMAST FLEEIMLE TOTVER EVEIR DESIGSNED:

## Use it as a Stereophonic FM-AM Tuner

Use it as separate Monaural FM \& AM Tuners
Use it as straight Monaural FM or AM Tuner

- MULTIPLEX OUTPUT FOR NEW STEREO FM TWO PRIMTED CIRCUIT BOARDS AND IF'S PREALIGNED IFM AFC AND AFC DEFEAT OITTUEE PERFORMANCE - 11 Tubes (4 dual-purpose) + Tuning Eye Selenlum Rectifier ARMSTRONG CIRCUIT WITH DUAL IIMITERS AND FOSTER-SEELEY DISCRIMINATOR 12 TUNED CIRCUITS AND DUAL CATHODE FOLLOWER OUTPUTS EXTREME SEMSITIVITY AND WIDE FREQUENCY RESPONSE
- THE MOST FLEXIBLE TUNER EVER DESIGNED!


Use it as imultanoous Monaural PMA AM Tuners Use it os separale Menaural Mmorral

More thon o year of reseorch, plonning ond engineering went inito the moking of the proctical and worthwhile feoture Designed ogainst obsolescence, it incorporates every proctical and worthwhile feoture thot is considered necestary for your complet every fachon or alf present ond fufure rypes of broadcoiting. Already, breathtokine stereo. phonic arogrami ore being tronsmifted vio FM and AM. It will cerioinly become more and more the popular method of high fidelliy broadcostine. The funer also provides more output for multiplex FM stereophonic receplion, enobling you to enioy the ulitmat an high-fidetity sound reproduction. Since the FM ond AM sections are campletoly in in pendent of each other, this tuner can be used furthermore os a dual.monoural indeIn this woy, the music levers ore oble to listen to concert progroms on the fM iuner. In one room, while the younger-set con listen to a different progrom on $A M$ in chanael roam. In addition, on a monoural pregram which is broadcosted on cm in onother FM and AM. this funer will enoble you to fune in both channels simultoneouily vio through individual omplifier-speoker syitemi. The improyement of reproduce them Immediotely noticeable becouie the sound source imprevement of qually will be time, the hole-in-the-woll point source effect is complew distributed and of the same unlt can also be used os an ordinary type of FM .AM funer providing. Of course, the possed qualliy of reception.
Apart Irom ifi unique flexibility, this is, before all else, a superior high-fidelity funer, employing many feotures found only in the highest priced units. An inspection of the tubes and parts used will reveal that this tuner is engineered without compromise of ony kind. With the Lafoyetie Stereo-Tuner you are ostured of nalise-free, drift-free ithen-free performance. You will not only hear miti quality, but olso sense it even the profersional details in the decop. The tust-right shade of gold brofs relecred colori that will blend with any dark moroon bockground and is off contrants just enough with the The design of the cobinet has it itt off by motehing moroon knobi with gold inserts. traditional elegance Corefully Delure features include cory initallatlon in console if desired. uning copacitor and and 3 -gane This means that iong lollower autput conter without fear of con fonect tuner to omplier or conirol for eoch chanal tween hannels bere of stereophonic fareo which operate FM m ignal permonenily. Ferrite rod ontenno with looding ring is supolled to bring in areund 1 moll assembly, the tit is bull imple, even for such o camplex unit. prealigned If's, waking censtruction and wiring

## SPECIFICATIONS

Low RANGE: FM 88.108MC, AM \$30.1650KC. BM CIRCUIT: Armstrong, limitens, Fester.Seeley discriminator, AFC and AFC defeat AM CiRCUit, Superhet withed dual AVC. IOke whislle filter, ferrite onfenno. DISTORTION: Under $1 \%$ hormonic on $F M$ wh 3 slages on AM for up to $80 \%$ modulation. HUM EEVEL: 60 db below $100 \%$ mornic on FM; Under i\% FM-full limiting on signols os low as 1 uv, 2 uv for 30 db guielinot AM Toin. SENSITIVITY: $5 \mu^{*}$. SELECTIVITY: FM 200 ke bandwidth, $6{ }^{2}$ db down. AM 80 quieting AM Terminal Sensitivity WESPONSE: FM $20-20,000 \mathrm{cps} \pm 1 / 1 \mathrm{db}, 4 \mathrm{M} 20-5,000$. $4 \mathrm{dke} 8 \mathrm{~W}, 6 \mathrm{db}$ dawn. PREUENCY IMAOE REJECTION: FM 40 dbs AM 30 db $20-5,000 \pm 3 \mathrm{db}$. FM DRITT: $\ddagger 5 k$ Morimum. ATION: MEETS FCC REOUIREMENTS. OUTPUT LEYEL, FMIONB FM 70 db , AM 50 db . RADI$30 \%$; AM overage IV. CONTROLS; 5 cantrols FM VOL $21 / 2$ V for $100 \%$ modulalion iv for and five positlon function selectors swith controle; FM VOL, AM VOL, FM Tuning, AM Tuning, GALS, GBES, $12 A U 7$ and GUS luning ore. Selenium rectifie, OUAUG, I ooch GBK7 B, ECCB5, pedances cothode follower. Outout locks for FM, AM or stereo. ANPEMMA IMPUTS: Low Im-

 MODEL KT. 500 WX Stereo Tuner Kit manual, shematic and pictorial diagrams.
H.Sowr

Nel 74.50
Not 124.50

## 50 WATT INTEGRATED STEREO AMPLIFIER

- Two 25 Watt Channels, 50 Watt Monophonic Output
- Response 17 to 21,000 cycles
- Third Channel Output
- New 6CW5/EL86 Output tubes
- Full Range of Controls and Inputs
- New Distinctive Styling
- Individual Bias and Balance Adjustments

new Lafayette KT-250 offers remarkable versatility, high quality of reproduction and new distinctive styling in one convenient low-cost unit - another example of Lafayette's constant effort to provide the audio enthusiast and music lover with audio components that represent the finest quality value in their class.
Designed and engineered for ease of assembly, the KT-250 is a fine stereo preamplifier and 50 watt stereo amplifier combined - with all the controls and features to enable you to enjoy the utmost in listening pleasure in any situation. Whether you use it as a stereo amplifier delivering 25 watts per channel or as a powerful 50 watt monophonic amplifier. you are assured of true high fidelity reproduction - free from hum, noise and distortion. Check the features below - see why the KT-250 is worthy of a place in your stereo music system.


## DELUXE FEATURES

Unique Separation control-A new stereo controf which provides continuously variable channel separation-from full monophonic to full stereo. Lets you select the amount of separation you want.
Clutch-operated Volume galance Control-Gives you a choice of independent or simultaneous control of both channels-you can use it as a master volume control without disturbing previously selected settings on each channel.
4 Independent Tone Controls-Independent Bass and Treble adjustment for each channel. Concentric mounting for convenlence-inner lnob controls one channel, outer the other channel.

- Mode Switching-Two slide switches provide Normal Stereo Reverse Channel Mon A (Channel A reproduced through both channets)-Mon B (Channel B reproduced (hrough both channels).
Inppt selector 4 -position switch lets you select Instantly any offe of your connected monophonic or stereo sources special non-shorling arrangement on one position permits recording and playback using a perma. nently connected tape recorder.

Loudness Switch-Provides the frequency response changes required by the ear at low listening levels and permits the Volume-Balance control to function as a compensated loudness control.
Phase Switch-Reverses the phase of one channel elec. trically-corrects for speakers connected out of phase or trically-corrects
for reversed phase recordings sometimes found commercially.
3 Pairs of Migh Level inputs -For connection of Crystal or Ceramic phono. Tuner, and auxlliary equipment.
2 Pairs of Low Level Inputs-for connection of magnetic phono and Tape Head.
Main Speaker outpuis-Dual 4, 8 and 16 ohm terminals may be paralleled for 4 or 8 ohm operation at 50 watts. Tape output-Provides an output for Tape recordingunalfected by Volume and Tone Controls.
Bridged Output-A monophonic blend of both channels which can be fed to a third single channel power am. plifier and speaker for a greater sound spread in stereo. May also be used for listening in another room.

ADVANCED AUDIO CIRCUITRY INCLUDES:

[^0]

## NO TECHNICAL SKILL REQUIRED

Designed for ease of construction, the KT-250 can be assembled in a minimum of time. Assembly manual contains detailed step-by-step instructions
guides you every step of the way. Large full-scale, pictorials show you where every wire and component goes - eliminate any chance of error or confusion. You build an amplifier comparable in every way to a factory-wired unit - and save real money too!

You Save!

## SPECIFICATIONS

CONTROLS: Total of 12 individual controls (3 dual concentric and 6 single); SELECTOR SWITCH: 4 position-Phono-Aun-Tuner-Tape Head, SEPARA. TION CONTROL: Continuously variable with power on-off switch. BASS CONTROL: DUal concentric, 14 db boost of cut at 50 CDS. TREBLE CONTROL: Dual concentric, 14 ob boost or cut at 10 Kc . VOLUME-BALANCE CONTROL: DUAF concentric, clutch-Operated for independent or simultaneous level control of Doth channels. MODE SWITCHES: 2 slide switches, provide Normal Stereo-Reverse Channel-Mon A.Mon B. LOUDNESS SWITCH: OnOff. Provides loudness contour compensation for volume control. PHASE SWITCH: Provides electronle phase reversal.
POWER OUTPUT: 25 watts per stereo channel (speech musle rating), 50 watts monophonic. FREQUENCY RESPONSE: $17.21,000 \mathrm{cps} \pm 1 \mathrm{db}$ at normal listening level). DISTORTION: Harmonle, less than $0.25 \%$ at normal listening level; IM. less than $1 \%$. HUM ANO NOISE: (At lull volume) High Level-74 do below rated output, Low Level -54 do below rated output. CHANNEL SEPARATION: Better than 50 db . SPEAKER OUTPUT IMPEDANCE: DUal 4,8 and $16^{\circ}$ ohms. AUXILIARY OUTLET: 1, switched. TUBE COMPLEMENT: 46CW5/EL86, $2-7199,3$-12AK7. 3 slicon diodes. Attractive beige vinyt laminated steel cabinet. Handsomely designed brass anodized aluminum front panel. Sienna brown molded legs, match. ing knobs with polished brass inserts. $141 / 2^{\prime \prime} \mathrm{w}$ $x 123 / 4 \times 51 / 2^{\prime \prime} h$ (with legs and knods). Shpg. wt., 26 lbs.
MOOEL KT-250wX-50 Watt Integrated Stereo Amplifler Kit, complete with delure cabinet and legs, all necessary parts and detalled assembly manual.

# NEW: QTHP PROFESSIONAL STEREO MASTER AUDIO CONTROL CENTER with All The Versatility of A Broadcast Studio Control Console 

- A GIANT FORWARD STEP IN PREAMPLIFIER DESIGN! UNIOUE STEREO \& MONAURAL CONTROL CENTER FACILITIES \& OUTSTANDING PERFORMANCE SU PERIORITY! WITH AMAZING NEW BRIDGE CIRCUITRY \& CONTROL FOR VARI ABLE 3d-CHANNEL OUTPUT FOR 3-SPEAKER STEREO SYSTEMS! VARIABIE CROSS-CHANNEL SIGNAL FEED FOR EIIMINATION OF "HOLE-IN.THE-MIDDLE EFFECTS WITH STANDARD 2-SPEAKER STEREO! HIGMIY PRECISE "NULU" BALANCING \& CALIBRATING SYSTEM PROVIDES MORE ACCURATE STEREO BALANCE THAN METERS!

LA-600 COMPLETELY WIRLO 134.50 79.50 IN KITFORM

- precision "null" stereo calibration b balancing controlled cross-channel signal mixing - THIRD CHANNEL CONTROLLED OUTPUT CONTROLLED MONAURAL MIXING OF ALL INPUTS 24 SEPARATE EOUALIZATIONS ON EACH CHANNEL MONAURAL RECORDING OR PLAY WITH STEREO SOURCES - 6 CONCENTRIC FRONT-PANEL CONTROLS 4 CONCENTRIC REAR-PANEL INPUT LEVEL CONTROLS SWITCHED FlETCHER-MUNSON LOUDNESS CONTOUR COMPENSATIOM PARALLELED OR SINGLE CHANNEL AMPLIFIER drive with monaural sources $180^{\circ}$ phase reversal channet reversal with or without phase REvERSAL

PERFORMANCE SPICIFICATIONS FOR SUPER-STEREO
- RIsponst 1025.000 CPS os ob rap hiad playback coualization tor niw a track stirio - low hevelsinsitivity ifa millivolys
 millivalss ion 1 voly - iwitemeo 12 de/ortav
 IM DISTORTION DUAL TAPI MONITOR JACKS a switen tor gicosd \& playback oual input cor shitho/monaural ceramic. crystal on capacifivi pickups with full usi of tovaliza fion sellitions e signal.to nolse bitite iman - B0 OB AT MIGH HEVIL $2-07$ DE AT LOW IEVII mputs ior 1 volt out - paesenel switchior solo proniction basic conthols all contin tric - PIATE BOLIOWIR outputs BOR low im didancl with lowist oistortion - i.tive tozs Low moise dual priojes - auxilary a outhes


## THE LAFAYETTE KT-600 SOLVES EVERY STEREO/MONAURAL CONTROL PROBLEM

In Lofoyetle's constont effort to bring you the very latest and most odvanced developmenti in electronics and particularly in high fidelity - af prices everyan con afford, Lafayelte went to the most forward-laohing oxperienced brains in the electronics/high fidelity dusiry and hos now DARED to produce what we think is
the MOST REVOLUFIONARY DEVEIOPMENT IN STEREO The MOST REVOLUTIONARY DEVELOPMENT IN STEREO HIGH FIDELITY - A SRILIIANT NEW ACHIEVEMENT - TME LAFAYETTE KT-800 SIEREO MASTER AUDIO CONTROI CENTERI

The KT. 600 provides 4 dual cancentric input level conirol: for bolanced use of different iypes of program sources - such as AM and FM luners, lape recorder with microphone, phonograph plus microphone, efc.. and without overlooding inputs; 3 controls ore for high level inpuf, and a separate level cantrol is provided for the output of the proomplitier sloge. The KT. 600 provides seporate turnaver and rallolf dual concentric switches for 24 possible positlons of occu. rote equalizalion on each chonnel; equolizotion on eoch chonnel moy be sel independently of the other Furthermore, all inputs con be voriably mixed, monourolly, of will (mike with phano, lape recorder with phono etc.). The Bridge Control permits cross. ohano elf.f or optionally octs as a volume contral far the 3d channel (sridge) output to eliminote "ping.pong" or "hole.in.the middle" effects. An audible, sharp, occurate "null" (dip In sound oudible, sharp, accurate "null Calibrote" position ouppur) is provided by switch warkias in con of the stereo Nunction Swish colo iunction, with the clutch-iype bolonce Controis for precise stereo bolonce - highir imporiont for good stereo performonce. The 3 d channel output con olso serve for mixing ony sterea progrom lsiereo res ord, tope, AM/FM stereo) to produce excellent manoural recordings or 10 ploy 0 stereo program monourally through o seporote omplifier ond speake system in onother room. The KT. 800 has Electronic Phase Reversal to make up for reversed-phose io. cardings sometimes found commerciolly, in which there is O lass of some partions of the frequency spectrum, ond to correct speakers connected out of phase. Chonnel reversol is also present for carrect pastilaning of sterea music to the right or to the left - and this moy optionolly be occomponied by phase reversal for Rise 5 witch which pulls a sola instrument out of the general musical background with minimum disthe general musical bockgro

## AND STILL OTMER PROFESSIONAL FEATURES OF

 LAFAYETTE'S KT-600 ARE: Tape heod equalixolion for the new 4-trock sterea topes; Master Goin Cantral for individual or simultaneous adiustment of chonnel levels; inputs for constonl velocity (magnetic) and constont amplitude (ceramic, crystal a copic) and constont amplivel phono cortridges, all equalized by the Rolloff and Turnover selector switches; individuol Rolloff and Turnover selector switches; individuol treble controls which permil preselling for good reble controls which permit presolling for good tereo tonol balance and maincoining thal bolanse Ther tane control setlings; tone contral circuirs use $5 \%$-tolerance components and $2 \% \%$-talerance precisia potentiometers for ascurote centering of shair witched positions; swirched rumble and scratch filters; switched Fletcher-Munsan loudness cantour campensofion ape monitor auppu |ocks and lape Monitor-Play switch permit monitaring with recarders having spocio manitar heads and preamplifiers and also permit sterea/manourol lope deck with 1 ar 2 record/playbac preamplifiers to be permonently connected to the KT 600 far tecording and playbock; "alate follawer" out pul stoges for low impedonce ( 1500 ohm ) outputs with extremely low distortion; special low-flus pawer iransformer and DC operation of oll tila ments for exceptionally law hum and cool operation law-noise deposiled melal-film esistors and 7 of the new premium law-nolse pype 7025 lubes are used for extro-good signal-to-noise ratio. The KT. 600 ho printed circult board construction far ease af wirins and moximum performance stabilityCONTROLS: 12 (6 duol concentric, 6 single) on front ponel, 4 on roar (duol concentile). INPUT AND TURNOVER SELECTOR: 7-position dual concontric, indopandently sel for eoch chonnol, Positionsz Auz, Tope Amp. Tuner, AES, SIAA. Tape Head Boo, LP, ROLL-OFF SELECTOR: 7-position, duol ©oncontric, indopendently sel for eoch channel Positions. LP, R1AA, AES, 10.5 , 5, Flot, Tope Hood. BASS CONTROL: Dul concontric. 15 db boost or cul ol


 Phose, Notmol, Reverse Channels, Reverse Channels + Reverse Phose VOLUME-BALANCE CONTROLS Duol con-
centric. Cluch iye centric. Clurch type pulling oul center knob locks cantrols opatt for independont odiustman whon petiorming Mastor

 ond cross channol signol feed. LOUDNES' SWIICH: On-otf. Provides loudnoss contaur campensorion for Volume Conirol. PRESENCE SWITCM: On-off. Provides solo praiection by supplying a broad rise over opprozimareiv IN octaves, centered af 2,500 cps. TAPE MONITOR SWITCM: Play-Manltar pasitions. REAR PANEL CONTROLS: NN AUA). PMONO LEVEL SET CONTROL: sols lovel at autpul of preamplifier slog for Tope Head, Mag. Phano and Ceramic-Crystal-Capocitive Phano inputs. HUM BALANCE ADJUSTMENT. DUAL INPUTS: 6. High lovel-Tuner, Tape Amp, Aux; Low Level-Tape Head, Mog. Phono, Ceromic.Crystol-Capacitive Phono. OUTPUT5: 3. Iapo (duoll, Maín (dual), Bridged Output (single). INPUT IMPEDANCES: High level 250,000 ohms, with level set; law level 96,000 ohms SENSITIVITY: Low levol- 2.2 millivalis far 1 volf oul; High level-94 mv. for 1 vall. SIGNAL.NOISE RATIO;
 At high level inpuis 80 db below 2 vols; of low lovol $02 \%$ of 1 valt, lass than $0.1 \%$ at 4 ; law level less than
 Main Outputs; 8ridg. Output 1100 ohms. AUXILIARY AC OUTLETS: 4 , I unswitched to prevent leaving phonograph on with idler engoged. TUBES: $7.7025 ; 2$-selenlum rectillers. POWE
$\times 4.13 / 16 \times 111 / 20$, less proieclions. SMIPPING WEIGHT: 18 lbs. LAFAYETTE MODEL KT-600-Stereo Proamplifier and Coniral Center Kit, with printed circuit baord far simplictur of canstruction and stoble performanse, complete with coge, all necessary component, prafuely illusiroled ing 70.50 KT-600 WX

Page 68

## 36 WATT INTEGRATED STEREO AMPLIFIER

- 18 Watts per Channel
- Response 15 to $30,000 \mathrm{cps}$
- Unique "Blend" Control for Variable Channel Separation Concentric Clutch-Operated Volume Control
- Inputs for Stereo and Monophonic Sources


## NEW LOW-COST STEREO AMPLIFIER ANYONE CAN BUILD

With this single unit you can precisely control and reproduce all monophonic and stereo sources. The two 18 watt stereo channels provide plenty of power for home music systems, and you can also use the KT- 236 as a single 36 walt amplifier to feed one or two speakers. Fine wide-range stereo reproduction can be yours when you build this easily construcied kit. It has all the necessary inputs - lets you connect your sterco or monophonic sources permanently, with instant selection provided by the turn of a switch. Has built-in dual preamps for low level phono inputs - R1AA equalized for flat response. It includes a unique "Blend" control which provides continuously variable channel separation from full monophonic to full stereo - you select the exact degree of separation you want. Other features are: Concentric clutch-operated Volume conirol for independent or simultaneous level adjustment of both channels; Dual concentric Bass and Treble controls give you 4 independent tonal adjustments; 3 -position Selector Switch - Aux-Tuner-Phono; Mode ( 2 Slide Switches) provide Normal Stereo, Reverse channel, Mon A and Mon B: Phase switch - makes up for reversed-phase recordings sometimes found commercially and also corrects for speakers connected out of phase.
SPECIFICATIONS

POWER OUTPUT: 18 watts per channel, within 1 db ; 36 watts monophonic. FRE. QUENCY RESPONSE: $15 \cdot 30,000 \mathrm{cps} \pm 1 \mathrm{db}$ at normal listening levels. SENSITIVITY: For full output; High level inputs 0.5 v ; Mag. Phono 3 mv . DISTORTION: Harmonic, less than $0.15 \%$ at normal listening level; IM, less than $.3 \%$. HUM AND NOISE: (At fuil volume) High level inputs 70 db below rated output: Mag. phono 53 db below rated output. CHANNEL SEPARATION: Better than 50 db . SPEAKER OUTPUT IMPEDANCE: 8 and 16 ohms. INPUTS: (Total 8) Dual Aux,
dual Tuner, dual Crystal Phono, dual Mas. dual Tuner, dual Crystal Phono, dual Mas. Phono. OUTPUTS: (Total 4) Dual main
speaker output, dual Tape Out jacks. TUBE COMPLEMENT: 4-EL84, 2-7199, 3.12AX7 plus 2 silicon diodes. Attractive beige vinyl laminated steel cabinet. Handsomely de. signed brass anodized aluminum front panel. Sienna brown molded legs, match. ing knobs with polished brass inserts. 143/3 wide $\times 111 / 2^{\prime \prime}$ deep $\times 53{ }^{\prime \prime \prime}$ high (with legs and knobs). Shpg. wt., 24 lbs.
MODEL KT-236WX - 36 watt Integrated Stereo Amplifier Kit, complete with deluxe cabinet and legs, all necessary parts and detailed assembly manual........5.25 down Net 52.50


## Deluxe Stereo Controls

(1) 3.position Selector switch
(2) Dual concentric Bass control

3 Dual concentric Treble control
(4) Concentric clutch-operated Volume control
5 Unique "Blend" control
(6) Phase reverse switch
(7) Mode switches

Superior Audio Circuitry

- Accurate RIAA equalization on phono Inputs
- Dual hum balance controls for hum.free operation
- Total of 9 tubes plus 2 silicon diodes
- Excellent DC power supply regulation provided by silicon diodes
- Facilities for recording on tape
- 14 db boost or cut provided by each tone control


## Easy to Build

Anyone can build this low-cost stereo amplifier - no special skill is needed. Assembly manuals contain clearly. worded step-by-step instructions which guide you all the way. Large full-scale pictorials illustrate every stage of assembly - show you ex. actly where every part goes. Joln the thousands who have already discovered this easy low-cost way of owning the finest audio equipment.

## Safayette's HIGH-Quality components kits

## KT-310 36 WATT (18 WATTS PER CHANNEL) STEREO BASIC POWER AMPLIFIER KIT

- 36-WATT STEREO AMPLIFIER - 18-WATTS EACH CHANNEL - EMPLOYS 4 NEW PREMIUM-TYPE 7189 OUTPUT TUBES - 2 PRINTED CIRCUIT BOARDS FOR NEAT, SIMPLIFIED WIRING - RESPONSE BETTER THAN 35-30,000 CPS $\pm 1 / 2$ DB AT 18 WATTS - LESS THAN $1 \%$ HARMONIC OR INTERMODULATION DISTORTION



# 4 

## ( $\$ 4.75$ DOWN, $\$ 5.00$ MONTHLY)

Save lots of money without sacrificing high-fidelity performance by assembling this carefully engineered basic amplifler kit. Designed for both ste reo and monaural applications - circuit provides 18 watts on each stereo channel or can delivé a hefty 36 watts When operated monaurally. TRUE HIGH-FIDELITY RESPONSE with coverage from 35 to $30,000 \mathrm{cps} \pm 1 / 2 \mathrm{db}$ at 18 watts. Four premium. type 7189 output tubes are your assurance of true, undistorted reproduction of all program ma terial. Less than $1 \%$ IM or harmonic distortion. CONTROLS include two input volume controls, a Channel.reverse swich iai OUTPUT IMPEDANCES stereo mode swich. DUN OU of 4, 8, 16 and 32 ohms, the latter tap permitting the parallel (monaural) operation of two speaker systems of up to 16 ohms impedance. INPUT SENSITIVITY is 0.45 volt per channel for fult output. PRINTED CIRCUIT BOARDS make it easy for even the beginner to assemble his own amplifier. The illustrated instruction manual which comes with the kit outlines each step clearly and com. pletely. The kit includes all parts, the perforated metal cage shown in the photograph, tubes, and instruction manual. Over-all measurements are: $9.3 / 16^{\prime \prime}$ deep ( $10.9 / 16^{\prime \prime}$ with control knobs), $5 \% /{ }^{\prime \prime}$ high, and $1344^{\prime \prime}$ wide. Shipping weight is 22 ibs KT.310WX CA-310 WX Same as above, but completely wired and tested...................7.25 Down...........Net 72.50

KT-300 MASTER AUDIO CONTROL CENTER KIT
 - HIGHIY FLEXIBLE-CANNOT BECOME OBSOLETE DC ON ALL FILAMENTS -hUM-FIEL OPERATION - UNIFORMLY FLAT FREQUENCY RESPONSE OVER ENTIRE AUDIELE SPECTRUM SEPARATE TURNOVER ROLL-OFF SWITCHES - PRIMIED CIRCUIT WIRING

An oufstanding achievement in the audio field. The dual volume control allows you to adjust the output of a second preamplifier (using the KT-300 as the control center)-ideal when converting existing hiff system to stereo. Front Panel Controls include-Selector: Radio, Aux, Tape, Phono (AES, RIAA, 800, LP). Roll-Off: LP, RIAA, AES, OId London LP, FFRR.78, Flat, NARTB tape head. Bass. Treble. Loudness-Volume (concentric dual control, one with power on off). Separate loudness on off switch. Tape Monitar Switch. Rumble Filter. Gain Control. Radio Input Level Control. Inputs? Radlo, Tape, Tape Head, Aux, Mag. Phono, High Level Phono, High Level for control of 2 nd channel. Outputs: Amp. No. 1 cathode follower: Amp. No. 2 cathode follower (unamplified): Tape Recorder (unaffected by volum and tone controls). Frequency response: uniformly flat over entire audio spectrum. Harmonic distortion: Less than $.07 \%$ at 1 volt output. Sensitivity: Mag. -2 mv for 1 volt out; Radio, Tape, Aux -0.2 volts for 1 volt out. Hum and nolse: 80 db below 3 volts at full gain. Tubes: 3 ECC83 and 2 -selenium rectifiers. For $105 \cdot 125$ V., $50 / 60$ cycles AC. anodized gold finish aluminum panel, case gold finish with dark maroon trim. Die.formed metal case. Complete with all components and instruction manual. Size: $12 \%^{*}$ x $94^{\prime \prime} \times 3 \not{ }^{\prime \prime}$ ". Shpg. wt., $10 \% \mathrm{lbs}$. KT-300WX 5.00 Down

## KT-315 STEREO REMOTE CONTROL CENTER KIT



- TWO LOW NOISE 702S DUAL-TRIODES - positive control 50 feet or more - bridge balancing circuit
- OUTPUT FOR 'THIRD CHANNEL"
- CLUTCH-TYPE VOLUME CONTROL


### 27.50

Thls self.powered electronic adapter offers exciting features unique even in the fast moving stereo fleld. Inclusion of low-impedance "plate follower" outputs permits remote operation 50 feet or more from the controlled amplifier. Unusual bridge circuit assures precise balancing of the stereo system by means of audible "null." Objectionable "hols. in-the.middie" effect can be eliminated by cross-feeding variabie amounts of audio from each channel. Includes controlied third-channel output for driving third amplifier and speaker, If desired. Individual or simultaneous control of each channel. Phase reversal with or without channel reversal. Selective monaural operation. Frequency response 10 to $25.000 \mathrm{cps} \pm 0.5 \mathrm{db}$; gain 6 db ; cross channel rejection better than 50 db .
Premium type 7025 dual triodes. Printed circult boards for easy errorfree assembly. Complete, profusely illustrated manual included. Adapter with cage measures $61 /{ }^{\prime \prime}$ wide $\times 41 / h^{\prime \prime}$ high $\times 7$ " deep (not including knobs and projections). Shipping weight 7 ki/ ibs.
KT-315WX
5.00 Down

Net 27.50

## Taftuette outatanding VALUES "AUTOMATIC RECORD CHANGERS!

## Nationally Aduertised

 4-SPEED AUTOMATIC RECORD CHANGERCOMPLETE WITH THE BRAND NEW GE VR-22 (.7 MIL) DIAMOND STEREO CARTRIDGE


## Special 39.95

## Only $\$ 5.00$ Down

suy of Lafoyettel This is a brand new ANOTHER RAsulous sur on lolay the new General Electric VR-227 (.7 Mil) wode by o lomous manulocher, the finest reproduction from bath sterea ond Diamand Stereo Carrideg, arrer $20.17,000$ cps respanse, -30 db chanmonourol records. This cartridge 7 athos this cambination is priced so law that nel separation, trocks of We OARE NOT megtion the monufortuers outamatic intermix of different size recoras, a mise heovy rim-weighted furnautamatic shutoff afier the last recard isterat and a rugged drive system, all table, the heovy duty 4 pole shaded pal with na soed variotions; there is praccombine to produce even, smoath torave with no sped Lofayette's MONEY BACK tically no wow, no flutter, no rumble. And dan' forelyed an exceptional value. GUARANTEE if you don"t ogree that you have received on axcertional malar Size: $12 \frac{1 / 2}{}$ " $13 \frac{1 / 9}{}$ requiring board. Shpg. WH... 21 lbs. less base TRIDGE.

Not 39.95 PK-330WX
CECORD CHANGER WITH FAMOUS GE $4 G-052$ (1 MIU) DIAMOND MONAURAL cartridge.

Net 39.95 PK-250WX
ECORD CHANGER WITH GE GC. $7(.7 \mathrm{MII})$ DIAMOND STEREO CARTRIDGE
PK-25IWX Net 34.95
RECORD CHANGER WITH PICKERING $371 \mathrm{C}(.7 \mathrm{MII})$ DIAMOND STEREO CAR. TRIDGE.
PK. 252 WX

## WOOD BASES TOR ABOVE

Net 42.50

## K.359W MAHOGANY BASE

PK.360W BLONDE BAS
PK-361w Wolnut Base

## NATIONALLY ADVERTISED

## CHANGER Tremendous Buy for Stereo!



## Only $\$ 5.00$ Down

## chonger with tone.orm "stereophile"-Too name CARTRIDGES

 lomatis intermix handling of will occept oll stondord stere -speed stereo cycie, outomatic shut-off after records, muting switht stereo cortridges. Auduty shaded 4 pole molar for tost record. Rim.weighted isundess change thot this changer is motor for top quality reoroweighted iurntable, heavy. motorboard. Shog. $13 \%$ " whith $5^{n}$ cleor mance wbill be refunded. Chonger
 pk-27swx
ECORD CHANOA (OAD
STEREO TURNOVER COMPIETE WITH RONETTE'S FAMOUS Nel 24.50 mils) furnover cartrioge with two sapphire sty compatible PK-276WX

STEREO CARTRIDGE COMPIETE WITH EIECTRO.VOICE NET 29.95 MAGNETIC INPUT. (JIMD.7) WITH .7 MIL DIAMOND STYLUS. FOR
PK-337WX RECOR Wx
SECRER CHANGER COMPLETE WITH EIECTRO-VOICE ORTRIDGE WITH 35.50 CRYSTAL INPUTOGE WITH 7 MII DIAMOND STYOICE 310.7 NET SERAMIC PK-338WX eccoro
CARTRIDGE WITH COMPLETE WITH RONNETTE MONAUR NET 33.50 PK-339WX ITHII AND 3 MII SAPPHIRE STYM MONAURAI TURNOVER
PK.374W MAHOGANY BASE EASES FOR ABOVE
NET 27.45
PK.37SW BLONDE BASE BAS
PK.376W WAINUT BASE

NEW! UNITED AUDIO
DUAL-1006 4-SPEED COMBINATION STEREO
TURNTABLE/CHANGER
A remarkable new record changer feafuring design prín. ciples normally found only in professional turniobles: one-piece free-floating tone arm that tracks of $1 \frac{1}{3}$ grams: tone orm snop-in cortridge holder takes ony 2, 3, 4, 5. lominoted furntable defies worping pressure gouge; heovy ominoted iurntable deties worping, retains dynomic bel. once; precision mator reoches full speed under laod in $1 /$ sec. Now 4-speed cantral systom prevents " 1 llol-spat" thumplag; special sterea-mona switch circuit eliminates verfical trock nolses when stereo cartridge is ployed on manourol records. Unique "elevotor oction" intermiz chonger action sofeguords recard graoves and centers. Perfarmonce specs match best turniables. Camplete with 2 corridge holders, single ploy spindle, chonger spindle, ond adopter disc far $45 \%$. $110 / 220 \mathrm{~V}$. 60 cye/AC. Chassis $10 \%$ " $13^{\prime \prime}$ : requires $3^{\prime \prime}$ clearance belaw, $6^{\prime \prime}$ obave. Shpg. wi. $20^{\circ}$ lbs.

DUAL. 1006 RECORD CHANGER (IESS BASE) WITH $31 / 2$ GR. TURNTABLE

NET 69.95

DUAL. 1006 R RECORD CHANGER (LESS BASE) WITH $51 / 8$ B. TURNTABLE

NET 74.50

WOODEN BASE FOR DUAL RECORD CHANGERS. SPECIFY MAMOGANY OR WALNUT FINISH.

NET 4.95

DUAL AS. 4 AUTOMATIC 45 RPM RECORD CHANGER SPINDLE
PK-302
PK-392
NET 4.50

## V-M STEREOMATIC 4-SPEED CHANGERS

MODEL 1201-An outhentic high-fidelity stereo changer, popular-priced 10 swit any budget. Loaded with features only found in much higher priced units. Feather-light tone.orm is equlpped with a stereo cartridge. It will accept most standard ceramic and crystal cartridges, both mon. aural and stereo. Also provided with stereo-monaurat switch and lacks, V.M's "Siesta-Matic" outomatically retroests the drive ider to eliminate devalopment of "bumps." Exclusive patented "Tri-O.Matic Spindle" lawers the record gently to the spindle shelf. Now law. tarque mechanism ond heory turntable assure minimum wow and quiet performance. The turntable is fitted with a special rubber mat to keep the records elean, 4 -speeds selected canveniently by o single knab. Pasitive intormik of $12^{\circ \prime}$ and $10^{\circ "}$ resards in any arder, Jam-praof and foil prool. Smart new styling. for 110.120 y s0 as size $12 \% \times 13 \% \times 8.5 / 15^{\prime \prime}$. Shpg. wt.. $10 \% \%^{\text {l }}$ lbs. Less Base. GR-20S W-with ceramic stereo cortridge ......NET 40.00 MODEL 1202 - Less cortridge but with plug. In heod which will accommadato mast standerd manoural ond sterea cartridges. 4-pole malar. For Mag. Cort.
GR-206 W
NET 40.00 MODEI 1227 -Some os 1201 but with attroctive bokelite GR-207 W

NET 44.8O MODEL 1229 -Some os 1202 but with attroctive bokelite GR.208w. Wf.. 13 lbs

NET 44.80
VM ACCESSORIES
RK 45 RPM SPINDLE-Fits oll VM Madels
9045 MOUNTING BOARD-Pre-cut unfinished NET 1.45
( PK-349W

## WEBCOR 4-SPEED STEREO DISKCHANGERS



Ploys all sizes. Intermixes $10^{\prime \prime}$ and 12". 5.11 grom trybles odiusiment. Shuts off offer lost record. Heavy furm Mig. Dimensions: $131 /{ }^{\prime \prime}$ wow. Galden Boige and Brawn $51 /{ }^{\prime \prime}$ above and $4^{\prime \prime}$ below. For $110-120$ Volts 60 sycies

MODEI TRIO31.1 IMPERIAL CHANGER Plug. In heod Sanatane Sterec ceramic cartridge with diamand/sopphire styfi. Shpg. wi., $111 / 2 \mathrm{lbs}$
GR. 220 W (1ess bose)
MODEL TR1031.21 IMPERIAL CHANGER HO SNT 53.50 (.7 MIL) Diomond Siterea Cortridge. Shpe Has Shure M7D GR-221W (less bose) WIIT $11 / 2$ lbs MODEL TR1031-27 IMPERIAL Less Cartridge with 2 plug GR heads. Shpg. Wt., $111 / 2$ lbs.
GET 45.38 less base) MODEL TR1041.1 CUSTOM CHANGER Has Astatic ceromic Stereo cortridge with Diamand-Sapphire styli. Shpg. wt. GR-223W

NET 40.80 n. Size $14 \%$ " $w 13 \% \%^{\prime \prime} \times 0 \%^{\prime \prime}$ base ready to plug GR-226W NET 4 W 14 MODEI TR1041-21 CUSTOM CHANGER Features GE Stereo magnetic cortridge with .7 mll Diomand stylus. Shog. wt.e $10 \% \mathrm{Jbs}$
GR. 224 W (less base)
NET 54.03 in. Size $14 \% \%^{\prime \prime} w \times 13 y^{\prime \prime}$ as obave on base ready to plug.
 MODEL TR1041.27 CUSTOM CHANGER Less Cariridge With 2 plug.in heods. Shpg. Wh., $10^{1 / 2} \mathrm{lbs}$. GR-225W (less base)
GR-228W A.1937T Metal Base. wi., 5 lbs NET 5.67 PK-347 A. 193045 RPM Spindle. wf Ib NET 2.94 GR-220W A. 1938 Cut mig. boord. Wi., Ib. NET 2.94
 coarect
con VENIENT

## WORLD'S FINEST STEREO RECORD PLAYING EQUIPMENT

4HF 4-SPEED MANUAL PLAYER Wired For Stereo \& Monaural Delure professionol lyoe monual tron. furntoble ond .iPA 12 heovy weigh orm, on single unit plote 4 toene with variable unit plote, speeds, lubricating system supplied ment. New In Universal head. For 100 with olug so cps. 150 cyede For $100 / 130$ volls, SO CPs. (SO crele bushing ovoiloble.) $5 i 2 e, 171_{4}^{\prime \prime} \times 131 / 4^{\prime \prime}, 31 / 2^{\prime \prime}$ oborif ond $33 / 6^{\prime \prime}$ below moforboord. Shpg. wr., is GR.124W. Less Cortídge
S.83 Down
4MF With GE.VR. 227
Stareo Diamond 4MF With GE.VR. 227 Stereo Diomond Cortridge.
GR-15JW. 8.28 Down Not 82.76 With GE VR 11 Manvoral D:omond. Sopphire Cortridge.
GR-1S4W 7.72 Down Net 77.22 With ShURE M7D Stereo Diomond Cortridge.
GR-155W B.18 Down Net 81.83 With SHURE M3D Slereo Diomond Cor. tridge.
GR-156WX 10.24 Down Net 102.41 With PICKERING 371C Sterce Diomond Cortidgo. GR-157WX 8.18 Down Ne1 81.83


## 301 "PROFESSIONAL" TURNTABLE WIRED FOR STEREO \& MONAURAL

A hi-fi 3-speed turnioble designed to professionol specificotions. Exclusive heovy dury motor hos a dynomically bolonced ormoture. Precision $61 / 8 \mathrm{lb} .12^{*}$ oluminum turnioble. Eddy current brake permits variotion of oll speeds. Less than $0.2 \%$ wow: less thon $05 \%$ futter. For $100.130 / 200 \cdot 250$ Volp, 60 cycle A.C. operotion, 50
 and $31 / 2$ "below moforboord. Supplied with line cord hondsome stroboscopic disc ond individual inspection repert. Shpg. wi., 20 lbs
GR-123wX.

## GARRARD TPA/12 STEREO TONE ARM

New high-fidelity tone orm for use with stereo cortridges Uses precision chronometer-iype beorings for smooth Uses precision chronometer-iype beorings for smooth, tree morian. New simple and eosily occessible weigh odiustment. Single hale mounting permits mounting the orm withoul using emplases. Will ploy oll sipes of cece ords UD to ond ineluding $10^{\circ}$. Plus-in heod permits quick chonge of cartridges, both stereo ond monoural Completely slereo wired which mokes it suitoble for ony turnloble. Finished in gleoming chrome and white. Shpg w., 2 lbs

GR-122
Net 19.50

ACCESSORIES

for use with Garrard chongers, turniable, and tone o. $n$.

MOUNTING BASES


| WOOD MOUNTING BASES |  |  |
| :---: | :---: | :---: |
| Choice of Mohogony, Slonde, or Wolnut. Shpg. Wl., 4 lbs. Specify finish. |  |  |
| STOCK NO. DESCRIPTION |  | NET |
| PK.393W | FOR RC-88 OR RC. | 4.85 |
| PK.194W | FOR RC-210 | 4.85 |
| PK.395 W | FOR RC-121/II | 4.51 |
| PK.396W | FOR T/I | 4.51 |
| PK.397W | FOR 4HF | 6.37 |
| PK-398W | FOR 301 | 8.77 |
| WOOD MOUNTING BOARO |  |  |
| Unfinished, smooth sonded. Shog. wt., $11 / 2$ lbs. TOCK NO. DESCRIPTION NET |  |  |
|  |  |  |
| PK.399W | For RC-88 or RC. 98 | 2.20 |
| PX-401W | For RC. 210 | 2.20 |
| PK.402W | For RC.121/[ | 2.20 |
| PK-403W | For T/11 | 2.20 |
| PK*404W | For 4 HF | 2.20 |
| CARRYING CASES <br> Partable Wood coses with hond some simuloted leother covering. Shpg. wt., 6 lbs . |  |  |
| STOCX NO. | DESCRIPTION | NET |
| PK-405W | For RC-88 or RC. 98 | 14.70 |
| PK-406W | For RC. 210 | 14.70 |
| PK-407W | For RC-121/II | 14.70 |
| PK-408w | For 4 HF | 19.11 |



## GARRARD STEREO CONVERSION KITS

## NATIONALLY FAMOUS CHANGERS AND TURNTABLES

## NEW! COLLARO TC-99 CONSTELLATION TRANSCRIPTION CHANGER



- $\quad 1 / 2$ LE DIE-CAST NON-MAGNETIC TURNTABLE EXCEEDS NARTB STANDARDS FOR WOW, FLUTTER AND RUMBLE 2-PIECE TRANSCRIPTION ARM - 4-POLE EXTRA HEAVY-DUTY MOTOR


## (2) 0 ?

(less cortridge and base)

A new 4-speed slereo shanger specifically designed for The connoisseur, the TC. 99 provides Iranscription pertormonce with full oulomatik operolion. Eoch model is
loboratory checked ond comes with its own lob specificolion sheat. Fiulter gueronteed not to exceed $0.4 \%$, wow $0.15 \%$
Extro heovr-welght, non-mognetic iurnioble ossures imooth, constant operation ond provides a reduction in mognotic hum pick-up. Heory-duty 4 -pole hum shielded molor lis precision bolonced. Full outomotic intermix hondles $7^{\prime \prime}, 10^{\prime \prime}$, and $12^{\prime \prime}$ records in ony order. Also feotured is o new iwo-piece tronscription orm desligned to professional slondards to frack records with minimum distortion and lowest amount of pressure. Plug. in head occepts all stondard stereo ond monaurol cor. tridges. Additional feoturess iwlich for monvol aperation: double muting switch ond pop filter; oulomatic iderer dis. engogement, automolic shut-off ofter lost record. Chonger is supplied complete whith two audio cobles reody to be plugesed inso stereo systom and styled in handsome iwo. tone ebony color ichome io flt any decor, troplealized
ogoinst adverse weother and humldity conditions, Size
 mopor boord. Shpg. Wi., 25 lbs molor boord. SO . 9 Sg . Wh., Chonger llest cortridge ond botel COLlARO TC. 99 Stereo Chonger lless cortridge ond boll GR.IOWX No with Ronatle erystol stereo cortridge. Some on obove, with Ronette erystol stereo cortridge.
GR.11wx
7.09 Down 70.90 With Callare ceromis stereo cortridge GR-12WX Nel 68.06 With Colloro ceromic stereo cortridge ond diomond stylus
GR.13WX 7.64 Down .... Net T6.44 With Shure M7D Dynetic Stereo Cortridge and diomond stylus.
GR-14WX . 8.18 Down Net 81.83 With GE VR227 Magnetic Stereo Cortridge ond diomand GR-15WX ........ 8.28 Down ................. 82.76 Wood-boses [in Mohogony. Blond and Wolnul] ond able for the Collare TC.9\%. Pleose see locing poge

## GLASER-STEERS GS-77 4-SPEED STEREO RECORD CHANGER



## AUDIOGERSH "MIRACORD" CHANGER \& MIRAPHON PLAYER



## 4-SPEED STEREO CHANGER

Push-Bution Controlled Throughouf fiolity sound. You The "puih button" mirocle of high fidelify sound. You
con START, STOP. PAUSE, REPEAT or FILTER by merely con START, STOP. PAUSE, REPEAT or FILTER by mereir octivoling the 5 push bultons. Two odvonced design spin dies make the MIRACORD $X 5.200$ o 2 -in-1 fully outo. motic Instrument. Other deluxe leotures includen $4 / 1 / 2 \mathrm{lb}$. professional trpe turnioble; heory duty 4 -pole sereened motor, special domped tone orm with linerchongeable plug-in heod: stereo-monoural switch. Unit is obsolutely hum-free, with wow and flutter less than $.15 \%$. Complete with oll leads ond plugs atloshed-ready for thereo or monaurol operation. Dimensions $121 / 2^{\prime \prime} \times 10 \% *$, requir. ing $21 / 3^{\prime \prime}$ above and $2 \%{ }^{\prime \prime}$ below mounting board. Shpg.
Wi. $17 \%$ lbi.
MIRACORO $\times 5.200$ Stereo Changer (less coriridge). GR-75WX 6.62 Down … ...... Nel 66.15 Some os above, but with new GE VR227 magnelic stereo cortridge and diom and stylus.
GR-78WX 8.97 Down Net 89.67
PK-353 45 RPM Spindle for obove i $1 / 2 \mathrm{lbs}$.........Net 4.41
PK.354W Motching Metol Botes lbs.
PK.355W Mounting boord It 1 .
Net 5.83

- "SPEEDMINDER" AUTOMATICALLY SELECTS CORRECT SPEED UNIQUE "TURNTABLE PAUSE" FEATURE BETWEEN CYCLES SHORT Q SECOND CHANGE-CYCLE TRANSCRIPTION-TYPE TONE ARM INAUDIBLE WOW, RUMBLE AND FLUTTER


### 59.50

(less cortridge ond base)

This precision-engineared instrument includes many new features that matie it the ideal steree changer. Amazing "SPEEDMINDER" automoticolly selects sorrect turntablo speed, ond provides record and stylus protection no other chonger con equal. The transcription.lype tone orm is dynomicolly boloneed ond leotures ocousticolly holated iuspenion for distortion-free reproduction. Arm is olso equipped with 2 quick-chonge cortridge holders. Other fine features includer furntable pouse during cycle to protect records ogolnst rubbing; double channel multing switch; Stereo-Manoural iwlich; 4.pole hum-shielded motar with bolonced rotor, outomotic ond manual opero tions at all 4 speeds complete infermik of oll size records

# Collave RECORD CHANGERS and PLAYERS 



## MODEL TSC-640 CONQUEST II

An ideal low cost automotic changor for the latest stereo ond monoural records. Made in England, It is corefully engineered and precisely constructed. The two-tone color finish will lit ony decor and ifs functional conftals ossure ease of operation. This chonger con be converted Into furntable aperation instantly. Feofures o new one-plece tronscriptlonitype tone orm, completely wired for stereophonic use. The tone arm will accept all stondord high. fidelity stereo ond monaural cortridges. "Seml-mogic" tone orm outamatically "teels" the record dlameter. Honder $7^{\prime \prime \prime}, 10^{\prime \prime}$ and $12^{\prime \prime}$ records stacked in arder of Hondles $7^{\prime \prime}, 10^{\prime \prime}$ and $12^{\prime \prime}$ records stacked in order of
decreasing size. Extremely quitet ond smooth operotion is dechleved by the use of heovy duty 4 pale Induction motar achleved by the use of heovy duty 4 pale Induction motar
driving a heavy rim.welghted furntoble, oqulpped with driving o heavy rim.weighted furntoblo, oquipped with
removoble rubber mot. Other features Ineludes Automotle shut-aff ofter last recard; muting iwliteh and pap fliter to eliminate exfranoous nolsesf frapicalized agolnit adverse weather condilionsj lom proof mochinery. Sise $12 \times 131 / \mathrm{m}^{\prime \prime}$. Cleoronce $5^{\prime \prime}$ obove and $21 / 4^{* \prime}$ belaw motar beord. Shpe. wi., 20 Ibs.

Model TSC-640E. Less carlildge.

## GR-16WX

3.00 Dow

With Ronette Sterea erystal cortridge With Colloro sopphlie stereo ceramic cortride Net $\mathbf{5 0 . 3 2}$ GR-18WX 5.00 Down … Net 47.48 With Calloro diamand ilerwo ceromic cartridge. With Shure M7D 1.7 mil) diamond stereo coriridge. GR-2OWX 6.13 Down 6.13 Det 61.26 WIth GE VR-227 1.7 mill diamend stereo cortridet. GR-2 IWX................ 6.22 Down ...................... 62.18


## MODEL TSC-740 CORONATION II

Enlay the latest stereo and manourol records wlith this superb stereo record changer. Deluxe styling Includes iwatione color finish to fil ony decor. New changer mechanlsm automatically changes and finds the proper location for lowering the tone arm. Gentle handiling of recards and eperallonal ease mapk this chonger os one of the finest avaltable. Feolures the revalutionary new two. plece tronseriplion type tone orm, dynamically bolanced piece ronseriplion rype tone orm, dynamically bolanced nonce. Plug-in heod aecepls all oudio frequoney resanonce. Plug-in heod aceepls oll sfandard stereo and monourol cortridges. Heovy duty 4 polo, shoded induction molor drives o heovy ilm-weighted turntoble, equipped with removable rubber mat, reducing wow and flutter to less than $0.25 \% \mathrm{rms}$ of $331 / 2 \mathrm{rpm}$. Autamalically ploys $7^{\prime \prime}$, $10^{\prime \prime}$ and $12^{\prime \prime}$ records stacked in order of decreasing size. Other feotures includes 4-speeds, 78, 45, $331 / 3,16 \frac{1}{3}$ rpmi switch for monval turniable operations outamotle shut-off offer lost record; lom-proof mochinerys muting swifch ond pop filter $12 \times 131 / 3^{\prime \prime}$. $3 / /^{\prime \prime}$ obove ond $21 / 6^{\prime \prime}$ below matar boord. Shpg. wi., 20 Ibs.

## Model TSC.740E. Less cariridge.

OR-2SWX ........... 5.00 Down
With tonette stereo eryitol cortridge With Colloro sopphire stereo ceromic cartridee. GR-27WX S.14 Down ......................... With Colloro dlamond stereo ceromic cortridge. 51.40 GR-28WX S. Sol 59.78 With Shure M70 (.7 mil) dlamand stereo cartridge.
G.29WX 65.17 With GE Ve-227 i.7 mili dlomond stereo cortridge. Net 65.17 Gn-30WX ...............6.61 Down ..................Not 66.10


## MODEL TSC-840 CONTINENTAL II

Hero is a superb record chonger for outstonding reproduction of all stereo and manaural records. Its perform. ance will solisty even the most eritical musie listeners. Exeeptlonolly low rumblo and speed varioflon. Features o revalutionary now fwo-plece transcription.lype tone orm, revolutionary now iwo-piece fronscriplion-fype tone orm, designed to protessianal stondords. Will trock records with in head occepts all shanderd hiah fidellty stopes and man In head occepts all standard high fidelity storea and man. oural cartridges. Camos complete with iwo oudio coblos ready to be plugged inta steroo systom. Fully outomatic Intermix handles $7^{\prime \prime}$, $10^{\prime \prime}$ or $12^{\prime \prime}$ records slocked in ony order. The heavy rim-weighted turntoble is fitied with removable rubber mat and is driven by a 4-pale, heavy duty, shielded induction mator to achleve minimum waw and flutler- $1 / 4 \% \mathrm{ims}$ of $331 / 3 \mathrm{pm}$. Lang service life is ossured by the automatie direngagement of idler wheel, preventing the develapment of "bumps" and "wow". Other foaturesi muling switch ond pop fliter; camplataly jom-proaf machinery; outamotic shut-off ofter last record, ottroctive two-tone color scheme to fit any decari pro-wied for easy Installatian, tropicalized agoinst adverse weother candifions. Slze $12 \times 131 / 3 " .1 / "^{*}$ obove and $2 \% "$ below motorboord. Shpg. wt., 20 Ibs.
Model TSC-840E. Less cortridge.
GR-34WX 5.00 Down …........................ 48.51 With Ronelle stereo erystal cortridoe GR-35WX ...... 6.11 Down ... 61.10 With Collaro sapphire stereo ceromic cortridge GR.36WX 3.83 Down ............... Nel 58.26 With Callora dlamond sterea ceromic cartridge. GR-37WX $W$ With 17 -6.66 Down..... Net 66.64 With Shure M7D (.7 mill diomand stereo corfridge With GE.VR227 (.7 mil) diomond itereo cortridet 72.05 With GE.VR227 (.7 mil) diomond sfereo cortridg
GR.30WX GR-30WX............... 7.30 Down ........................ 172.96

## all collaro changers are equipped for both stereo and monaural operation

## LAFAYETTE WOOD BASE and BOARD for COLLARO UNITS

## BASES

Wood boses finished in mohogany, bland or walnut. Eoch bose exoctly cut to At and mount eoch model. Walnut boses mode with eenuine walnut veneers. Shpe. wi. 5 lbs.

POR ALL COLLARO CMANGERS PK-374W. Mahogany Anish K. 375 W . Bland finish PK-376W. Wolnut finish

FOR COLLARO TP. 59
PK-377W. Mahogony finish
PK-378W. Bland fin-th
PK-379W. Wolnut Anish

## BOARDS

Mounting boords unfinished for easy slalning. Shpg. Wi.,


## COLLARO ACCESSORIES

45 RPM outomatie spindle for all Collaro chongers. Shpe Wi., 8 oz K-188. Net 3.23 5.pin empty heod shell wired for stereo, for TSC740-840. TP. 59. Shpe. WI. 6 oz Wolnut. Wolnui fin

MODEL 4TR200 TRANSCRIPTION TURNTABLE

Here is a 4-speed franscription furniable desiened for discriminoting musk lovers. Ideal for both stereo ond monoural applications. Features a speciolly baloneed non. mognefle turnioble weighing $81 / 2 \mathrm{lbs}$., fitted with rubber mal. Exelusive miero-polished matar shaft and solf-lubri. caling bearing remove all troce: of futler and wow Flulter guaronteed not 10 exceed $.04 \%$. Wow lesi thon $.15 \%$. The heavy duty 4 -pole motor is spucially manufor. fured dynamically boleneed. Unique suspension system of motor from the Unit plote reduces rumble to -50 db . The 4 -speed drive mechanlsm is olis nowly desianed to give uniform speed. "Pop. Alter pravided. Functional iwitches are convenienily locoted for cosy operation. Size $121 / \mathrm{s}^{\mathrm{s}}$ $121 /{ }^{\prime \prime}$ Shen KR $121 / 3$ wx
O
25161.
5.00

Nol 48.51

## MODEL TP-59 4-SPEED MANUAL PLAYER

An excellent 4-saeed manual ployer for all stereo and monoural records. Automotic stop and start merchanizm assures simple operation Other Callaro features heovy sleel rubber covered furnioble, $91 / \mathbf{N}^{\prime \prime}$ in diomefer heovy dufy 4-pole induction motar, dynamically bolanced now hespeed drive deslgned to slive obsolutely uniform urnioble speed, light movement speed celecior knob, sell neutralizing ider and pulley system for complete ilimino llon of "bumps". Contrals are altroctively plosed and the whole unit is beoutifully atylud. For 110.120 volits, 60 cycles A.C. Size, $131 /{ }^{\prime \prime} \times 12^{\prime \prime}$. Shpg. Wt., 15 lbs. GR-44W. Less corlrides........5.00 Dewn..........Net 29.35 With GE VR. 227 (.7 mil) diamond tereo cortrldge. Gn-45W..................... Not 53.80



# Lafest COMPATIBLE STEREO CARTRIDGES 

## SHURE MODEL M3D PROFESSIONAL DYNETIC

## COMPATIBLE STEREO CARTRIDGE

A premium moving.mognet corfridge designed specifically for the critical listener who oppreciates accuracy and honesty in sound peproduction. Completely compatible, it plays both stereo and monaural discs. The cortridge feafures law distortion, low needle talt, high output, minimum hum pickup and no magnelic attraction to steel furntable, plus the follawing specificalionss Responte, 20 to 15,000 cps. Chomnel separolion, Compliance $4.0 \times 10.6 \mathrm{~cm} / \mathrm{dyn}$. Tracking force 3 lo .6 mm Compliance, $4.0 \times 10.6 \mathrm{~cm} / \mathrm{dyn}$. Tracking 3 . With 0.7 mil diomond stylus, cosily reploceable Madel M3D - Shpg. wh., 5 oz.

## SHURE MODEL M7D CUSTOM STEREO DYNETIC CARTRIDGE

## new maving magnet 7 mil dio

 A now maving magnet sterea cartridge with .7 mil diamond stylus. Frequeney respanse: 20 to $15,000 \mathrm{cps}$. Chon-nel separation: More than 20 db of 1000 cps . Output valtages 5 mv per channel af 100 cps . Vertical and lateral compliance: $3.5 \times 10^{-6} \mathrm{~cm} / \mathrm{dyne}$. Recammended laad im pedance is 47,000 ohms. Trocking force: 4 to 7 grams Tracks perfectly in all recard changer arms. Has 4 terminals; odaptoble to 3 terminal orms. Shpg. Wi., 5 oz. SHURE MTD ..........3.00 Down .............Net 23.52 Slereo stylus assembly for M7D, including .7 mil diamond,
SHURE N7D ..................................................... 11.76

## DYNACO-B\&O STEREODYNE CARTRIDGE



A magnetic sterea cortridge designed for superior high fidelity reproduction from elther stereophonic or mono phonic records. Feotures o symmetrical, accurately bal anced moving-iron deslgn, providing superior chonnel separotion, equal complionce in all directions, smoath trequency response, and cancellation of noise components in monophonic use. Frequency response: $\pm 2 \mathrm{db}$ fram 30 cps to 15 KC . Oulput veltages $7 \mathrm{mv} / \mathrm{chonnel}$ at $5 \mathrm{~cm} / \mathrm{sec}$ at 1000 cpr. Channel separation: more thon 22 db . Com pliances $5 \times 10^{-6} \mathrm{~cm} /$ dyne in oll directions. Tracking force: 2 to 4 prams. Recammended laods 47.000 ohms or higher. Siylus: 7 mil diamond. Shpg. Wi., 5 oz. STEREODYNE ........ 5.00 Down .......... Ne1 29.35 STEREODYNE REPLACEMENT DIAMOND STYLUS

## GRADO CUSTOM AND MASTER STEREO CARTRIDGES

Grado Custom Feotures wide linear frequency response of $10-24,000$ cycles. Output 7 mv per channel. Because of its high complionce, a 3 gram frocking farce is recommended when used in high quallity tonearms. Input impedance can be of any volue above 5,000 ohms. Channel seporotion in oxcess of 20 db . Designed for use record changers as will as toneorms. Shpe. Wi. . 5 az. Grado Master. Some os obove, except outpul 5 mv . Fre. quency response $10.30,000$ cycles. Channel separation


## new Weather's CERAMIC STEREO CARTRIDGE

 Newly engineered ceramic sterca cartridge that approoches the perfarmonce of the famovi Weathers FM coriridges. Campletely ening record Iffe Immensely. Feafures 25 ob seporotion between chonnels. Frequency respanse is flat from 15 to 30.000 cps with low distortion. Output, 0.25 valis of $7 \mathrm{~cm} / \mathrm{sec}$. Complete with 0.7 mil radlus sapohire or diamand siylus, pickup leads and con 0.7 mil radlus sapphire or ciamand siylus, WEATHERS C-5OID-With diomand stylusNet 17.50 WEATHERS C.SOIS-With sapphire stylus


## NEW STEREOTWIN MODEL $210 D$ CARTRIDGE



Ullizes the "moving-mognet" prinsiple for stereo repro duction fram dises. Achieves a new high In qually per formance. Flat response throughout the entire audlo spec Irum. Separation, 22 db at 1000 cps . Output is 13 mv per channel. Tracking pressure 3.6 groms. Fits all standard record shangers and tone orms. Four terminals with slideon lugs for simple installation. Hum is eliminoted by numetal encosement. Shpg. Wt., 5 ors.
MODEL $210 / \mathrm{D}$.........50 Down ........ Net 33.81
DM-210. Diomand replacement stylus for above.

NEW! PICKERING MODEL 380 STEREO FLUXVALVE CARTRIDGE
FAMOUS "FIUXVALVE" ENGINEERING WIDE RANGE FREQUENCY
RESPONSE MINIMUM INTER-CHANNEL CROSSTALK LOW TRACKING FORCE AND DISTORTION


Traditlonal Pickering quality of design assures the linest perfarmance. Minlofure design, fils oll record chongers and tane orms. Hermetically sealed and fully encopsu lated in preciaus nu-metal for o lifetime of trauble-free and hum-free perfarmance. Response $l$ lot fram 20 to 20 .
000 cycles. Channel separation of 25 db . Output: $2 \mathrm{mv} /$ 000 cycles. Channel separation of 25 db . Oufput: $2 \mathrm{mv} /$ $\mathrm{cm} / \mathrm{sec} /$ channel. Four oufpup terminols, Recammended for changers. .7 mil diamond stylus, with the exclusive 5.00 Down Nembly. Shps. Noi 34 50 MODEL 380-C. For chang orm ................ 5.00 Down .............................. 29.85 Replacement "V.Guard" stylus assembly with .7 mil diomond for 380 . A. Shpg. wt. MODEL D3807-A .................................................................................... 19.35 Replacement "V.Guard" stylus assembly with .7 mil diamand for $380 . \mathrm{C}$. Shpg. wt..

| MODEL D3807.C | Ne1 15.0C |
| :---: | :---: |
|  |  |

PICKERING MODEL 371 Of truly minialure dosign. It will fit into oll tone orms
STANTON STEREO
FLUXVALVE CARTRIDGE
 recards, monaural and sterea. Unilform response over the entire oudio range with complete obsence of spurious resononce. 7 mil diamond slylus mounted in Pickering"s "T. Guord" stylus assembly. Tracking farce $2-5$ groms for tane arms and $3-7$ grams for changers. Sufficient autput level. Negilisible crasstalk. MKII Stanton Sterea Flux. volve Cartridge far tone arms and turntables. Shpg. wt MODEL 371 A O. $\quad$ S.00 Down .............. Net 26.40 MKII Stonton Stereo Fluzvalve Cortridge for changers.
 Replocement "T. Guard" stylus assembly with .7 mil diemond for the JクIA. Shpg. w1., 2 oz. MODEL D3707.A
Replacement "T. Guard" stylus assembly with . 7 Mond
MODEL D $3707-C$

Net 12.00

## NEW ELECTRO-VOICE "MAGNERAMIC 31" COMPATIBLE STEREO CARTRIDGE

The oll.new "Magneramic 31 "' replaces conventional mag. netic cortridyes directly. Features vertical and lateral compliance of 3.5. Respanse is $\pm 2 \mathrm{db}, 20$ to 20,000 cycles. Chonnel separation is 28 db at 1000 cycles. Output is 10 mv . Recommended lood 22,000 to 47,000 ohms. terminals.
With $.5-\mathrm{mll}$ diamand stylus. For use with tronscriptiontype orms. 2.4 grams tracking force. Shpe. wi.. \& az.
MODEL 31 MD -5 ........ 5.00 Down...... Net 23.52 4.6 groms iracking force. Shpg. Wf., 4 oz
5.00 Dawn
 MODEL 31 MD- 7

## STANDARD MODELS

Same os the "Magneromic 31 " madels, except output is 300 mv . No preamplification Hecessary. Far high Impedonce, ceramic inpuls. Shpg. Wh.. 4 oz. 2.4 grams track ng With . $5 \cdot \mathrm{mll}$ diamond styius. Far use with tronscription-type orms 2.4 grams track ng force. 310.5
5.00 Down

Ne1 22.05

NEW FAIRCHILD SM-I STEREO CARTRIDGE
A cortridge designed for the ultimate reproduction of stereo and monoural records without compromise. Utilizes a rolaling mognet design with replaceable siylus 1.7 mil 15,000 geles on each channel. Separation better than 20 db over the oreater part of the oudia spectrum. It is 20 db over the oreoter port of the oudia specirum. Tifs the first stereo coriridge thot con be vertically of laterolly
 damped occarding to individual requirement. Output: 11 mv of 5 cm of 1 ks . Its nu metal case assures hum.free performance. Will track $30 \mathrm{~cm} / \mathrm{sec}$. of 3 grams . Siurdy construction allows using in changers as well as franscription tone arms. Can be used ith lead lengths up ta $20^{\circ}$. Lood impedances 47,000 ohms. Camplate with a giom auge. Free llfelime foctory Inspection. 5hog wl. 4 ot
SM-1 ........................................ 5.00 Down
SM-1SR. Diamand stylus replocement for obove. 2 at

## NEW! ELECTRO-SONIC GYRO/JEWEL STEREO CARTRIDGE


tamed Electro-Sonic Lobs cames the sterea captridge designed for the perfectionists: the ESL Gyro/Jewel. Employs 2 ESL's potented, subminioture D'Ansonvo movements to ossure extremely lineor respanse. New Gyro/Jewel coupling with is precious gem pivals, minimizes friction. Extremely high vertical and horizantal cam pliance, $5 \times 10^{-6} \mathrm{em} / \mathrm{dyne}$. Channel seporotion. 20 to 25 db . Frequency respanse. 30 $15,000, \pm 3 \mathrm{db}$. Entremely law output impedonce of 25 ohm at $1,000 \mathrm{cps}$. Tracking force is 2 to 4 gm . Provided with 3 output terminols. Output. 2 mv . Coplridge cemes with 2 subminioture ironsformers and diomond stylus.
ESL C- 100
7.00 Down

Net 69.95

## GENERAL (

## GENERAL ELECTRIC HIGH FIDELITY PHONO COMPONENTS

## G.E. VR-22 STEREOPHONIC MAGNETIC VARIABLE RELUCTANCE HIGH FIDELITY CARTRIDGE

## - PREQUENCY RESPONSE 20-17,000 cpE

- UP YO 30 dE CHANNEL SEPARATION
- virtually hum-free
- high compliance

MODEL VR. 227 with 7 mil diamond stylus. Abrolutaly the finest of all G.E. cartridges. This cartridge is made virtually hum.free by mu.motol shletding on top. entire frant and coll assombly. Hermonic and intermodulatlon distortion ore effectivaly minimized. Precise tracking and optimum compliance are atsured by new stylus ond or moture suspension systom. The stylus is casily changed Output his slosely balansed over entire freauency range. $A$ ground itrop allows vie of this cortridge with olther 3. or 4 -wire thereo 1 ysiemi. SPECIFICAFIONS, frequency tryur velocity of $5.5 \mathrm{em} / \mathrm{sec}$. Channel serorolions
to 30 db . Loterol complionce $3 \times 10.5 \mathrm{~cm} /$ dynes. Vertical compllance: $2 \times 10^{-8} \mathrm{~cm} / \mathrm{dynes}$, Recommended load, cach channal: 47,000 ohms. Recammended Pracking force: 5 to 7 gms. Shpo. Wt., 60
GE VR-227 …............ 3.00 Down

## Net 24.45

MODEL VR. 225 with .5 mll diamand arylus. Designed for Wis with transcription arms and turntables. Essentially the some of VR227 except frequency response 20:20,000 cps fatoral compliance $4 \times 10^{-6} \mathrm{~cm} / \mathrm{dynes}$ recommended GE VR-225
G.E. VARIABLE RELUCTANCE MAGNETIC COMPATIBLE STEREO CARTRIDGES
 - LESPONSE 20-17,000 cps - 20 DE CHANNEL SEPARATION MODEL CC-Y "OOLDEN CLASSIC" Outstonding magnelle terec cortridge mode 10 the high. - 11 tandords. A double mu-metal shleld minimizes hum olckup. A ground strop ollows use of this cortrides wilth -lither 3. or 4-wire stereo syitems. The cortridoe fits all stondord fone apms. SPECIPICAFIONS, frequeney re. sponses $20.17,000 \mathrm{eps}$ Outputs 6 mv , per channol of stylus velocity of $5.5 \mathrm{~cm} / \mathrm{sec}$. Chonnel ieporotions io ol stylus velocity of $5.5 \mathrm{~cm} / \mathrm{sec} .1$ Chonnel teporotions 20 db Vertical compllonces $10.8 \mathrm{~cm} / \mathrm{dyn}$. $\mathrm{cm} / \mathrm{dyne}$ lood, coch chonnelt 100,000 ehm/dyne; Recommended ing farces 3.5 .7 gms . With 0.7 mil dlamond stylus. Ing farces 3.5 .7 gms. With 0.7 mil damond stylus.
Shpg. Wi. 6 as. GE GC-7................. 5.00 Down.

Net 23.47 GE CL. 7 "STEREO CIASSIC"-with 0.7 mll iynthetlc sop.

## REPLACEMENT STYLI

GE 57270 0.7.mil domond replacement sylus for GC. 7
GE $\$ 775 \quad 0.7$-mil syathetis sapphire replacement strylus for
Cl-7 ................................................................................... 2.45
MODEL GC-S "OOLDEN CLASSIC"
A 0.5 mll diamend stylus version of GC. 7 "Golden Clas. sic" stereo cortridge. Designed for use with transcription arms and lurniables. Shpe. Wt., 6 oz.
MODEL OC. 5 ............. 5.00 Down
Net 26.41

CLIP-IN-TIP" STYLI FOR VRLI SERIES (C) Replocement for indlvidual strlus tips an elther "priple. play" or "ingle plor" models of the VRI Series only ploy or "ingleplar models of the VRI Sarile
NOT FOR RPX TYPE A SERIES. Shpg. Wt., 2 oz.

| TYPE | STYLUS | NET |
| :---: | :---: | :---: |
| 40.015 | 1 mil sopphire | 1.96 |
| 40.023* | 2.5 mll sopphire | 1.96 |
| 40.035 | 3 mll ropphiro | 1.96 |
| 40-010 | 1 mil dlomand | 9.75 |
| 46.020. | 2.5 mil diamond | 9.73 |
| 4C.03D | 3 mil diomand | 9.75 |

## DUAL STYLUS ASSEMBLIES (D)

Convert old-alyle RPX-050, RPX-052, RPX-053, RPX-047 for ure with "clip-In.|lp" Individually repioceoble styll Complet win siyil as shown. Shpe. wf., 2 or.

RPJ.012 183 mil sopphise
tej-013A 1 mil diomond and
1 mit diomond - 3 mil sapphire


- For low Impedance cortridge opolicotions.


## MET

3.50
19.55
11.71

## For RPX TYCLIP-IN-TIP STYLI (C)

0404 TYo A (NPX-0SOA .052A, 053A, 041A. $146.147^{\circ}$ Also . Oojal ond broodros rypes RpX.143. stylu: Assemblies - RPJ.010A, 012A, .013A, .007A, Strlus. Assomblies - RPJ.010A, 012A, .013A,
-011A. Old sylus tip slidel out, now one slides in.

| TYPE | stylus | NET |
| :---: | :---: | :---: |
| RFJ.O1D | 1 mil diomond | 9.75 |
| RPJ.020* | 2.5 mll diomand | 9.75 |
| RPJ.03D | 3 mll diamond | 9.75 |
| RPJ.015 | 1 mil sopphire | 1.96 |
| RPJ.025* | 2.5 mil sopphire | 1.96 |
| PPJ.035 | 3 mll sopphire | 1.96 |

SINGLE STYLI (E) INOT CIIp-In-Tip) For replocement in old-style single-stylus cortridges RPX. 0401 . 063 , 061 . Asemblies complete with 1 mil cortridges are not converilble to "chp. In.Hips". Shps. corindges
$\mathrm{wt}, 2$ or.

> RPJ.004

RPJ.004.
RPJ.002.
RFJ-003
RPJ-005
RPJ.006*
RDJ. 001
strius
2.5 mil diomond
3.5 mll diomond

3 mll diamond
1 mil sapphire
2.5 mil ropphire

3 mill sopphire

NET.
10.29
10.29
10.29
10.29
10.29

### 2.06

2.06
2.06
2.06

The VR प SERIES cortridges are succestors to the famaus General Electric RPX series varlable reluctance cartridges, with a number of Impraved lealures. Will ht whurever old RPX cortrldges were used. All VR © Series cortridges reavire the use of a preomplifier. SPECIPICA. PIONS: Frequency Reiponse - 20-20,000 cps; Procking Prossure - (with prolessionol tone orms, such as GE 61.500 ar $\mathbf{A 1}-501$ ) 4 grams - (with recard changere) 0.8 groms, Equalizotion-6200 ohmi for RIAA-47,000 ohms load for hat response; Output- 22 mllilvalis nom. Inal of $10 \mathrm{~cm} . / \mathrm{sec}^{2} \mathrm{~s}$ Compllance $1.7 \times 10^{\prime \prime} \mathrm{cm} . / \mathrm{drnes}$ Mounting - elther $1 / 2^{\prime \prime}$ standord ar $7 / 16^{\prime \prime}$, Terminalss Plug in dealon. OPHER PEATURES; NOw "Slim Look" Independently replaceoble Clip-In- Fip styll, famous GE
proclsion ground dlomondi ond sapohires (soma proclsion-ground diomonds ond sopphires (some sapphires
ore synthelic), Unafected by temperature ond molsture: ore synthetic), Unofected by temperofure ond molisture; Mu-mefol shielding ond special anti-hum coils, No re:
sponse to vertical motion.

Replocement Darts Klt, for VRII Series Priple Play

Cortridge. Includes, spring, wos heri, plastic knob. Wt., 2 oz $^{2}$
RKP-009:
(I) UDX.003E GE PREAMPLIFIERS

GE or similor mognetle cowered proomp for use with Hos 65 C 7 lube in equallaing circuit, olus recilfier. Input lock, miko-phono swithe, $14^{\prime \prime}$ outout lood with phono olug. 18 db boss boost of 50 cps on . Phono. Flot on Qlug. 18db boss boosh of 00 cps on "Phono", ${ }^{\mathrm{Flot}}$ on on Complete with tube. Shps. wh., 2 lbs. UPX-003:

Not 11.71 (G) A1-203 TRANSIST-TUEE PREAMPLIFIER - PTO omplifier-equolizer for mognatic cortridges using 2 NI 68 tronsistor ond $12 A X 7$ tube. R1AA compensollon bulls-In.
Operotes on 105.125 V . 50.80 cycles AA




Designed primarity to canvert sterea sysioms using caramis cartridgen to magnetic cortridges. Selection of elther tape of phone Inpul for each channel by individual switching. Mum and nolie better than - 60 db ; distartion less than $0.15 \%$ chonnel separation better thon 40 db ; and law NAPedance output. Equalizalion - RlaA for disc and NAATE for tope. lesponien $\pm 1.5 \mathrm{db}$ of thoted equaliza. tlon chorocteristics. Sensitivity, Thono 4 mv for 6 by oul put-lope 4 mv for . Av output; Golni Over 40 db both inpuls, with channels bolanced to within 1.5 db . For $105.125 V$., 50.60 eycles. Slze1 $61 / 4^{\prime \prime} \times 3^{1 / 4^{\prime \prime}}$ Wi. 4 lbs

## NEWI G.E. TM-2G

## "STEREO CLASSIC" TONE ARM



This fine now GE tone orm has been specially designed for the GE Stereo and Monaurol cartridees. By occom. standing only these cartridges, his orm provides outsfanding performance without compromises. Prime features for sterse operation include static balance for constant loteral equilibrium, 2-step trocking force odiustmont for highly precise setting to 6 groms, llghtwolght oluminum construction for minimum Inertlo, microboll beorings for educed fricllon. Prim styling with brushed oluminum ond chrome finish. longth pivat post to strlus - $9^{\prime \prime}$, reor
 boord. Moximum trocking error, 2 degrees.
"STEREO CIASSIC" TONE ARM, loss cartridge


Suppresses lurnioble rumblo and unwonted signols below cycles ond protects spooker from hormíul sub-oudio surges. Minimizes low frequency distortion. Cutoff 12 db per octov below 50 cpl. No power supply required. Hos tandord phono Input lack and 19 output leod with whono plug, on-off switch. Size: $2^{\prime \prime} \mathrm{H}=2 \mathrm{Y}^{\prime \prime} \mathrm{W} \times 3 \mathrm{~V}^{\prime \prime \prime} \mathrm{D}$, C.334

E-V STEREO CARTRIDGES


E-V 210


## E-V 26MOST

With the old of these cortridges you con now be READY FOR THE MAGIC OF STEREO SOUND. Frequency Re sponse if $20-16,000 \mathrm{cps}$, within $21 / 2 \mathrm{db}$, with recommended lood of 3 megohms. Eoch cartridge consists of 2 ceromic - lements, with on exclusive design to ellminote furntoble rumble ond permil use of any type of chonger or transcrip. tion olbyer for stereal SIZE is $13 / 16^{\prime \prime}$ deep $x 1 / 3^{\prime \prime}$ high $x$ $37 / 64^{\prime \prime}$ wided the cortridges fit most rone orms (with 3-or 4-wire phono cobles). Trocking force is 6 gms ; output is 0.5 volis; chonnel isolotion is 20 db ; verical rumble re. lectipn is 15 db ; distartion is below $2 \%$. Shpg. wi., 3 ozs
E-V 215 Single stylus ceromic stereo cortridge with 0.7 mill sopphire siylus for monoural 45, $331 / 2 \mathrm{rpm}$ and stereo records List 9.50 ......................................... 5.59 E-V 2 Ms Some as obove, but motches magnetic phono input. List 12.50 Nei 7.35 E-V 210 Some os E.V 215 but with 0.7 mil diomond stylus. Rist 15.00 Net 8.82 E-V 21 MD Some os obove, but motches mognetic phono input. Mst 18.00 $\mathrm{N}_{\mathrm{t}} 110.58$ E-V 265 T Turnover ceromic stereo cortridge wlth 0.7 mil sopphire $\mathrm{P} / \mathrm{stereo}$ stylus and 7 mill sopphire stylus for 78 (Dm, list 10.50 Nel 6.17 E-V 26MST Some as above, but motches mognetic phono input. Lisl 13.50 Ne1 7.44 E-V 26DST Some os E.V 26ST, bul with 0.7 mll diomand and 3 mil sopphire styli. List 16.50 ......... Net 9.70 E-V 26MOSkSame os obove, but molches magnellc phono input. Ust 19.50 .................. Not 11.47

## E-V REPLACEMENT NEEDLES

D1-1 0.7 mil diomond for 210, 21 MD, 26DST, 26 MDST list 7.50 . ............................................ . Net 4.4 \$1.1 0.7 mil sopphire for $21 \mathrm{~S}, 21 \mathrm{MS}, 265 \mathrm{~T}, 26 \mathrm{MST}$ list 2.50 ................................ Not 1.47 $5.3 \mathbf{3} \mathrm{mil}$ sopphire for 26ST, 26MST, 260ST, 26MDST. list 2.50 .................. Not 1.47

SPECIAL VALUES IN STEREO CARTRIDGES


## IMPORTED FROM HOLLAND CRYSTAL TURNOVER STEREO CARTRIDGE

A fortunot buy ollows LAFAYETTE to moke ovailable on OUTSTANDING FAMOUS BRAND IURnover ceromic stereo cortridge of o price that ollows you to get storted in sterea NOWI 0.7 mil and 3 mil sopphire sifylt. 20 db chonnel isolotion; response $20.20,000$ cps, Minimum rec. ord weor with comptionce of $2 \times 10.6 \mathrm{~cm} / \mathrm{dyne}$ and 6 gm . stylus force. Vertical rumble suppression ollows use of this cartridge with most record changers or turntobles. Output volioge is 0.3 volts; recommended lood is 3.5 megohms for Q1AA response. Mounts in oll standord tone orms. Shpg. PK-2 $231^{\circ}$

SPECIALI NET 5.95

## SONOTONE REPLACEMENT NEEDLES

Shog, wh., 2 oz.
N-8TA-5 0.7 mil and 3 mil Sapphire ossembly.... Net 2.06 N-8TA-SD 0.7 mil Diemand, 3 mil Sopphire stylus os-N-8TA-D Dual 0.7 mil Diamand assembly.........Nel 11.17 N-8TA-577 Duol 0.7 mil Sopphire ossembly....Nel 2.06

##  <br> RONETTE "STEREO 106" <br> SONOTONE STEREO CARTRIDGE <br>  <br> NEWI RONNETTE "STEREO 106" <br> CRYSTAL TURNOVER CARTRIDGE

Here of lost is o low cost stereo cortridge which hos oll feotures necessory for updating present monoural systems to stereo. Designed for superior repreduction of all stereo or monour ol records, frequoncy response is $30-12,000 \mathrm{cps}$. or monourof records, frequency response is $30-12,000 \mathrm{cps}$. Consists of 2 erystal elements which provide o high 1.5 volts per chonnel-needs no preampliacolion. pin type. Trocking force 4.6 groms. Complete with furnaver me chonism, knob and dual sopphire styli to play recards o oll speeds. Fifs all stondord orms. Shpg. wi. 6 ozs
RONETTE "sTEREO $106^{\prime \prime}$ List 9.00 .
Not 5.29

## SONOTONE CERAMIC STEREO CARTRIDGE

An excellent performer for sfereo or stondord (monoural) records is the new Sonotone ceromic stereo cortridge, series 8TA. These cortridges incorporote rumble suppres slon (importont in stereol. 4 terminals for minimal hum, and hove stondord $1 / 8^{\prime \prime}$ mounting centers for use in oll stondord phono orms. Response is $20.15,000 \mathrm{cps}$ with grodual roll-off to $20,000 \mathrm{cps}$ output is 0.3 volts; com. plionce is $3 \times 10.6 \mathrm{~cm} / \mathrm{dyne}$. Recommended lood is 2 megohms $/ 100 \mathrm{mmf}$, for eoch chonnel. Chonnel isolotion is 20 db ; trocking force is 3.6 gm ; cortridge wolght $71 / \mathrm{m}^{\prime \prime}$ oms. All models ore turnover types with 0.7 mll and 3 mil styli for all monaural and slereo records.

## SONOTONE STEREO CARTRIDGES

SONOTONE 8TA. 450.7 mil and $\mathfrak{j}$ mill Sapphire Net 6.53 SONOTONE 8TA.4SD 0.7 mil Diomond, 3 mil
Sopphire ... 8TA-40 Dual 0.7 mill Dlamond. Net 11.47 SONOTONE 8TA. 4577 Duol 0.7 mll Sopphire. Net E.53

## ELECTRO-VOICE POWER POINT CARTRIDGES

## CERAMIC MONOPHONIC TYPES

Power point has two sopphire ploying tips connected directly to the ceramic element Quick mig., easy replocement. Rosponse hot from 20 cps to beyond 14 kc ; outut 1 volt trocking force 5 to 8 groms. Avg. shpg. wi., 4 oz


EXACT REPLACEMENT FOR WEBCOR FONOGRAFS

## Model 7605-Turnover cortridge only. Block plastic cose. With one . 001 " diomand tip

ond one .003" sopphire tlp. N........................................... 5.8
Model 765 - Purnover cortridge only. White plastic case. With one . $001 \%$ sopphire tip and one .003" sapphire tip.

Not 2.32
FOR 78 RPM
Model 53-3-Power Point cortridge only. Black nylon cose. With two .003" sopphire tips.

## MOUNTS FOR POWER POINTS

Fired, and furnunder mechanism hove $7 / 16^{\prime \prime}, 1 / 2^{\prime \prime}$ and $3 / 0^{\prime \prime}$ mounfing hole centers. All necessory fhordwore is included.
Model PFT. 1-Fixed mounting mechonism. Accepls ony ceromic monophonic power point. Model PT-2-Lever-ocion turnunder mounting mechonism. Reploces oll standord furn. under cartridges. Far use with Models 56 and 560 S Power Point cortridger.....Net . 59

## FOR 45 AND 33-1/3 RPM

Model 51.1-Power Point cortridge only. Red nylon cose. With two .001" sopphire tips.

## FOR 45, 31.1/3 AND 78 RPM

Model 52-2-Power Point cortridge only. Green nylon case. With two . $0023^{\prime \prime}$ sop. phire tlps. Madel 56 -Power Poin cortridge only. Blue nylon cose. One 001 " sophire tip and
 Model 5605 -Power Point cartridge only. Orange nylon cose. With one .001" noturat diomond if and one .003" sopphire tip.................... Net 9.70 diomond tip ond one. $003^{\prime \prime}$ sopphire tip. With one l-mil sopphice tip ond one 3 -mil
Model 81 Enoct Astatic replocement. With Model 81 -Enoct Astatic replocement. With one $1 . \mathrm{milt}$ sapphise fip ond ane 3 -mil
sopphire tip. Block cose with white dot. List price 3.95 .... Nef 2.32 sopphire tip. Block cose whit white dot. List price 3.95 . Model BIOS-Exoct Astatic replocement. With one l-mil diomond tip ond one 3-mil sopphire Ilp. Black case with oronge dot. Ust price 9.95.................. Nof 5.85 Model 13-Exact Astatic replocement. With one .7.mil sopphire tip and ane 3-mil
 Model 1305 - Exact Astatic replocemment. With one .7 mit diomond tip and one $3-\mathrm{mll}$
sopphire tip. Green case with oronge dof. List price 12.95 Not B. 61

CRYSTAL MONOPHONIC TYPES
Crystal power points with 3 volf output ond response to 10 KC. Completo with 2 styll. Supplied less mount. All use type PT. 4 mount. Arg, shpg. wi., 402.

## FOR $33.1 / 3$ AND 45 RPM

Model 41.1 With two 1 -mil sopphire lips. Pink cose with
red dol
FOR $33.1 / 3,45$ AND 72 QPM
Model 42.2 With two 2 -mil sopphire tips. Pink cose with blue dot
Nof 3.50 Model 46 With one 1 -mil sopphire tip ond one 3 -mil tip. Pink cose with green dot Nel


## CRYSTAL STEREO TYPES <br> FOR $33-1 / 3$ AND 45 RPM

Model 91 With two .7 mill sopphire fips. Pink case with black dof
Net 3.50
IOR 33-1/3, 45 AND 78 RPM
Madel 96 With .7 mil sopphire stereo tip and one $3 \cdot \mathrm{mll}$ sopphir monourol tip. Pink cose with yellow dot. Model PT-4 Turnunder mount for oll crystol power poinis .........
CERAMIC STEREO POWER POINTS


These new Electro.Voice ceramic sterea cortridges ore composite needle-and-ceromiccartridge units which simply plug into the Electro. Voice mount to replace most ceramic or crystol phono coriridges. Completely compotible. RESPONSE: 20-15,000 cps; OUT. PUT, I volf; TRACKING FORCE: 5.8 gms . CHANNEL SEPARATION: 15 db . Fit oll
 E.V 61 With 2.0 .7 mil sapphire styli for double needle life. Use with 331/ rpm (LP) and 45 ppm monoural records ond with stereo records. Requires PFF- 3 fixed mount (no supplied) 6 Some os 61 but with one 0.7 mil diomond ond one 0.7 mil sapphire styli E-V 6105 Some as 61 but with one 0.7 mil diomond and one 0.7 mil sapphire styli. E.V 66 With 0.7 mil and 3 mil sopphire styll. For use on all monoural and stereo Eev 66 With 0.7 mil and 3 mil sopphire styll. For use on all monoural ond s. . 4.09 recards. Requires PY. 3 turnover mount (nat supplied) ....... E-V 6605 Some as 66 but 0.7 mil dlomand and 3 mil sapphire styll..................... Net 7.69 E-V PT-3 Turnunder stereo mounf for 66 and 66DS cartridges.
E.V PTP-3 Fixed-iype stereo mount for 61 and 6105 cortridges.


## PICKERING STANTON MODEL 196 UNIPOISE ARM WITH STEREO-FLUXVALVE CARTRIDGE

An inlegroldesigned complele pickup unit meeting professianol stondords and the onocting demonds of perfect trocking of stereo records. Use it for superior reproducthe same excellent specifications as conversion is onficipated. The cortridge provides the same excellent specifications as the Pickering Model 371.7D stereo-Flunvalve corIridge. Includes o, 7 mil diomond stylus. A precision instrument, the unlpoise arm employs a single ficiction-free pivat bebring for olmost infinite compliance. The complete assembly, tone arm and cartridge is only a fraction of the weight of canventional $151 /{ }^{\prime \prime}$ arms. Its small size allows it to be installed on O motorboord measuring $15 \%{ }^{\prime \prime} \times$ $15 \frac{1}{2 \prime \prime}$. Simple Uni-mount installation uses o single thumbscrew ond bolt. Exclusive orm rest with soff sable brush to keep the stylus tip free of dust at all limes. With conVanient ziylus force adiustment. Shpe. wl.. 3 Ibs.
mil Diamond Siylis. Form Unipotse Arm Integrated Stereo Fluxvalve Cartridge ond 7 OTHER PICKERING COMPONENTS
370 Series Single-5tylus "Fluxvalve." 3500 series "T Guard" Siyll. For sim-Single-stylus version of famous, Plekering ple, slide-in replocement in 350 -serio Fluxvalve. Uses 3500 series " T -guard" and 370 -series cortridges ond the 194 stylus. Response, $10-30,000 \mathrm{cps} \pm 2 \mathrm{db}$. Oulput 25 mv nominol. Tracking force, 2 to 6 mm . With mounting hardwore ond individual stylus listed below. For monou. $\begin{array}{cccccc}\text { MODEL } & \text { INCLUDED } & & 5.3527 & 2.7 \text { mil sopphire } & 6.00 \\ \text { HET } & 0.3510 & 1 \text { mil diomond } & 18.00 \\ 370-10 & 1 \text { mil diomond } & 29.85 & 0.3527 & 2.7 \text { mildiomond } & 18.00\end{array}$ $\begin{array}{lllllll}370-15 & 1 \text { mil sapphire } & \mathbf{2 9 . 8 5} & \mathbf{1 7 . 8 5 5 0 5} & 1 / 2 \text { mil diamond } & 24.00\end{array}$ 370-20 $\quad 2.7 \mathrm{mll}$ diamond $\begin{array}{ll}370-25 & 2.7 \mathrm{mll} \text { sapphire }\end{array}$


SAK-12 pickup-arms. Av. shpe. wh., 308. $\begin{array}{llr}\text { MODEL } & \text { STYLUS } & \text { NET } \\ \text { S-3510 } & 1 \text { mil sopphire } & 0.00 \\ \text { S.3527 } & 2.7 \text { mil sopohire } & 6.00 \\ 0.3510 & 1 . \text { mil diomond } & 18.00 \\ 0.3527 & 2.7 \text { mil diamand } & 18.00 \\ 0.35505 & 1 / 2 \text { mil diamond } & 24.00\end{array}$ 370-.5D $1 / 2 \mathrm{mil}$ diomond

## GRAY COMPATIBLE STEREO TONE ARMS

Sealed dual viscous damping of vertical and horizontol pivats for maximum tracking siability; statically balanced around vertical pival. Accepts all standard stereo and monaural camridges. ©ihielded leods provided. Stylus force adiustoble from 0 to 15 sm. With packoge of occessory kif for converting this stereo orm for monaurol use Shpg. Wf: 3 lbs
MODEL $2125 x$
 GRAY TONE ARM KIT above, but $16^{\sim}$. Shpg. Wt., 4 lbs......................Net 36.30 GRAY TONE ARM KIT incorporates all engineering feotures of the $2125 x$, similar in oppearance. Shpg. wt.
3 lbs. MODEL SAK- 12

Net 23.95


## Audiogersh "Miratwin" Cartridges

Voriable refuctance single needle monaural cortildges with extremely mide sponse, low distortion ond high output. tylus pressure of 5 to 8 rms ond require ized. Response $\pm 2$ do 30 to over 19500 cps of $331 \% \mathrm{rpm} \pm 4 \mathrm{db}$ io $22,000 \mathrm{co}$ of 78 rpm . Output of 1000 cps 55 my for $33 \mathrm{l} / 2 \mathrm{rpm}$. Shog. wt., 4 oz .

SINGLE STYLUS MONAURAL $\begin{array}{lll}\text { MODEL } & \text { STYLUS } & \text { NEY } \\ \text { MST-10 } & 1 \text { mil dlomond } & 26.50 \\ \text { MST-1S } & 1 \text { mill sopphire } & 10.00 \\ \text { MST-1ON } & 3 \text { mil diomond } & 26.50 \\ \text { MST-1SN } & 3 \text { mil sopphlie } & 10.00\end{array}$
MST-ISN 3 mil sopphire $\quad 10.00$

| MODEL DM. 2 DN- 2 SM-2 <br> SN-2 | Styius <br> 1 mil diamond <br> 3 mil diomond <br> 1 mil sopphire <br> 3 mil sopphire | $\begin{gathered} \text { NET } \\ 16.50 \\ 16.50 \\ 3.00 \\ 3.00 \end{gathered}$ |
| :---: | :---: | :---: |
|  |  |  |
| SONOTONE 3T RAMIC CARTRIDGE |  |  |
| For monaural use. Features extended response of $20.15,000$ cps. With grodual rall-off to 20,000 cDs. Buill.in RIAA equalizatlon. Superlor compliance. Procks at 6 gm . Shpg. wt., 3 oz. |  |  |
| MODEL | STYLUS | NET |
| $\begin{aligned} & 31-5 \\ & 37-50 \\ & 37-0 \end{aligned}$ | dual sapphire diamond-sopphire dual diamand | $\begin{array}{r} 7.35 \\ 10.88 \\ 17.05 \end{array}$ |
| REPLACEMENT STALI <br> ios for 2 T corlridges; $\mathrm{N}-3 \mathrm{~T}$ series ortridges. |  |  |
| MODEL | STYLUS | NE |
| $\begin{aligned} & \mathrm{N}-2 \mathrm{~T} . \mathrm{S} \\ & \mathrm{~N}-2 \mathrm{~T} . \mathrm{SO} \end{aligned}$ | dual sopphire diamondosapphire | 2.06 6.76 |
| N-2T-D | duol diomond | 10.58 |
| N-3T-5 | dual sopphire | 2.06 |
| $\mathrm{N}-3 \mathrm{~T}-\mathrm{SO}$ | diomond-sopphire | 7.06 |
| N-3T-0 | dual diamond | 10.88 |



SHURE STEREO DYNETIC TONE ARM AND CARTRIDGE

## An integrated tone arm and cortridge which pracks

 of on incredibly light $11 / 21 / 2$ grams. Dynetic prin. ciple permifs off-serting the stylus to provide proper tracking angle. Provides critical damping without im peding normol mation of the arm. Uses ofully com. potible sterea cortridg with $.0007^{\prime \prime}$ diamond stylus. Frequency response। $20-20,000 \mathrm{cps} \pm 2 \mathrm{k} \mathrm{db}$; Channel separotion over 20 db ; Sen sitivity 4.5 mv per channel; Overali length of orm $14 \% 4^{1 /}$; siylus tio to center of base 11 Ronge of helght-adlustment $1 \%_{1}^{\prime \prime}$. Shpg. wi.. 1 V 2 lbs . M216-Stereo Dynetic Tone orm and M21 cortridge (for records up $1016^{\prime \prime \prime}$ ). Nel 97.71 M21-Stereo Dynetic Cortridge with M21 Corfridge (for records up to 12"). Net 87.71 N21-Replocement stylus ossembly for M21, M216, M212, . 0007 Diamond fipA29R-Adapler Plate for M212 with Rek-O-Kul furnioble
A30C-Stereo coble assombly for connecting M212 or M216 10 omplifier


FAIRCHILD $2 \boxed{2} 2$ STEREO TRANSCRIPTION TONE ARM proved pival oction, verfical moss, im ability, and maximum torsional sioidity. Accepts oll foirchild cartridges and other makes. Siylus pressure adiusiable to be low 1 grom. For $12^{\prime \prime}$ records but will ploy turntables. Has soll-contoined arm 12 seporate grounding wires. Shpg. wi.. 6 MODEL 282


WEATHERS TONE ARM

## The Weathers Micro-Touch Stereo Tone

 arm is a newly designed viscous damped arm tor use with tronscriotion-tyoe furn tobles. Perfectly balanced-occurate level ing of turntobles is nol necossary. D. signed specifically for use with the stereo. Romic cartridge. Tracking force adiustable from 1 to 8 grams. Overall length $13^{\prime \prime}$ and finished in sbony with gold Irim. Complete with stereo leods. Recommended StereoRamic Cartridge has frequency re sponse of 15 to $30,000 \mathrm{cps}$ s separallon 25 db , signal-to noise rotio 760 db , output per channel 0.25 volts $7 \mathrm{~cm} / \mathrm{sec}$ sylus 7 mil dioWEATHERS MT-5 - Stereo Tone Arm, less cortridge ...........................Nel 38.50 WEATHERS MC-1-0-Arm with Stereo. Ramic diamand cartridge ......Net 55.95 WEATHERS MC-1-5-Arm with Stereo Romic sopphire cartridge .........Net 48.25


## DYNACO STEREODYNE UNITIZED ARM-CARTRIDGE

## A new unltized $12^{\prime \prime}$ orm and cortridge of

 dramatic modern Danish design. Provides unequalled performonce with either stereo or mono discs with dynomically bolonced, uses hordened steel beorings to support the orm in o gyro-pivoled gimbal mounting. Adiustable counterbalance weight and spring tension for stylus pressure odjustment. Single hole mounting-occurate levelling of turntable not reavired. Height odiustments for orm and rest. Magnetle stereo cartidge has hat ro. sponse from 30 to 15,000 cos. Output is 7 mv par chonnels Chonnel Separetion 32 db ; frocking force $2-4$ grams. Easily reploced 7 mil diamend stylus. Has complote freodom from hum pickup-perfect for critical applications.OYNACO TA-12

## "MICRADJUST" MONAURAL

 CARTRIDGESFamous 225 Series moving coil type with wide-range response. Flat $\pm 2 \mathrm{db} 20$ to $20,000 \mathrm{cps}$. Output 5 millivalis for $2.5^{\prime \prime}$ per second recorded velocity. Weight approx. 12 grams. Mounting dimensions tondard $1 / 2$ " centers. Tracking force to 8 groms. Rugged construction.

| MOOEL | STYLUS | NET |
| :---: | :--- | :---: |
| 225A | 1 mil diamand | $\mathbf{3 7 . 5 0}$ |
| 225B | 2.5 mil dlomond | $\mathbf{3 7 . 5 0}$ |

Model 235 Transformer
Provides 5 times voltoge gain. Shpg. wh 1/2 lbs
Fairchild 235 .........................Net 13.75

NEW! REK-O-KUT STEREO TONE ARMS
Feafures: heovy shell to reduce arm reson ance; large, heavy counterweight easily dusled for precise Iracking force odjust monis of conductor lead, to accept any changeable aluminum cartridae shell, bular aluminum constructionge shell, iu ular aluminum consiruction, adjustable height. Shpg. wi., $11 / 4 \mathrm{lbs}$.
$\$ .12012^{\prime \prime}$ Siereo Arm …........Net 27.95 5.16016 Stereo Arm ..........Net 10.95 ETEREO Sterea Shell .......Net 5.95
Converi Rek.O-Kut monoural Kirs
Convert Rek-O-kut monoural orms to
Stereo
C-12 for $12^{\prime \prime}$ Rek-O-Kut orm Net 17.95 C. 16 for $16^{\prime \prime \prime}$ Rek-O.Kut orm Net 19.95

NEWI AUDAX STEREO TONE ARM KITS
Now a slereo lone orm in kif forml This professional stereo ton orm can be assembled in fusi 15 minutes, using only - serewdriver. Any slandord stereo or monaural cortridge can be used with this arm. Calibroted scale permits preciso adjusiment of counterweight to ony desired tracking force. The cortridge shell is oftached to arm by means of a knurled screw; cortridges can be changed with eose. Shpg. wt., 2 $\%$ lbs.
KT-12 12" Stereo Tone Arm Kit
KT-16 $16^{\prime \prime}$ Stereo Tone Arm Kit Nel 15.50
KT-S Stereo Shell to convert mot 18.50
Audax ofms to stereo ..................Net 4.95

## 

GRADO $12^{\prime \prime}$ STEREO ARM
A new concept in tone orm design-the Grado Arm is construcled of the flinest of finely mochined with metol fitting Its one plece construction eliminates ralle arm resonances. Ulira linates of crometes iracting force adiustmear in tenths of groms. Stylus force odjustment lonths of groms. Styl
GRADO $12^{\prime \prime}$ Tone Arm, Shpg. wi., 2502


FOR COMBINATION OFFER SEE TABLE AT RIGHT


## Lafayette 4-SPEED PROFESSIONAL TRANSCRIPTION

 PLAYER WITH 3 LB. $12^{\prime \prime}$ ALUMINUM TURNTABLE- IDEALIY SUITED FOL STEEEOI EETTEL TMAM-30 OE RUMELE \& WOISE VIBRATIONLES motol suspemsion below $0.2 \%$ wow e flutit macmitic cody-Curaren beane 3 18. $12^{*}$ EALANCED machimed alumimum fumptaele spied comtrol rol $\pm 7 \%$ valiaTION OF EACH SPEED
An amosing low price for the superiar auality embediad in this fine instrument, Foatures include heory. rim.welghted, 3 lb . machined aluminum $12^{\prime \prime}$ turntable, mannatle brote with ipeod contral for $\pm 7$ K variation of soch speeds the extremely low maine and rumble Agure of -50 db below overoge recerded level, wow and Autter (iseed varlations) of last than $0.2 \%$, new.thoe overnise prectsian. ground Idler with
 between all speed poiltionis free-hoating shoct-mounted motor; outomatic ldier disengogemant in "efl. poithionss precition soindle furni on single boll beoringi heavy duty e-pole Induction maler. Weary rubber

 requirat "below
DK-240w $12^{\prime \prime}$ TRANSCRIPTION TURNTABLE
Nol 37.50


## LAPAYETTE SUPER-VALUE COMBINATIONS

Sove on these combinations of tofoyette turntobles, orms and notionally fomous sterea diomond cartridgen. For selection of wood boses see inder.

| COMB. NO. | TURNTABLE | TONE ARM | CARTRIOGE | $\begin{gathered} \text { SPECIAL } \\ \text { NET } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| PK-4ilw | PK-240 | PK-270 | GE VR. 225 | 61.50 |
| PK-412W | PK. 240 | PK-270 | Pickering 371A | 61.50 |
| PK-413W | PK-240 | PK-270 | E.V 31 MD 5 | 61.50 |
| PK-415W | PK-240 | PK-280 | GE VR. 225 | 63.50 |
| PK-416W | PK. 240 | PK-280 | Pickering 3714 | 63.50 |
| PK-417W | PK-240 | PK-280 | E-V 31 MD 5 | 63.50 |

## THE REVOLUTIONARY NEW LAFAYETTE VERTICAL-LATERAL KNIFE-EDGE $12^{\prime \prime}$ \& $16^{\prime \prime}$ STEREO TONE ARMS!

- HARDENED-STEEL KNIPE-EOGE PIVOTS BEARINGS FOR COMPLETE, pRACIICALIY RRICTIONLESS, HREDOOM OF MOIION
- HGhTWEIGHT, DIE-CAST ALUMINUM IONE ARM
- EqUIPPED WITh UNIVERSAL PIUG-in Shell for all popular stereo cartridges
- self-contained subsle level for pintect, guess.fete levilling
- PaECISEIY-adjustable countersalance welomt
- non-risonant within the audible fie ouency tange
- perfict thacking with the lightest stylus horce


## RUGOEO CONSTRUCTION - FOOLPROOR - TROUBLE FREE

A remorkoble odvonce in tone orm design is precented in these new lofoyoke tone ormi. An unusual new princlope. ufilizing 2 vertical ond 2 lateral hardened steel knife-edge pivots iupported by hordenad itoel bearings, preides entremely low harizontal ond vartical triction. This un usual troe of beoring providet minimum waveform distorition ond no undeliable motion or loose lointed oction os viewed from the atylus end. Groove trosing is smooth, with excellont trocting even with very light pictup weigh, due to the obrence of frictional losses. Frietion in horizanol ond verticol directions is low, but mechonical impedance is high at $45^{\circ}$, providine maximum enectiveners with 45.45 zoleroo cortridges. The uniaue knife edge beoring canilruction moter it possible to drow out the shielded coble trom the center of the support column, eltminoting "inffnest fiction" due to the cable. A highly precise bubble level is pravided of the tap of the support column, the bubble plus
 molorboord. Overoll lengih of the PK. $27012^{\prime \prime}$ orm is $13^{\prime \prime}$. Linear distonce from support column to atylus tho is $10.9 / 16$; the PK-280 $16^{\prime \prime}$ orm is $14 \% 4^{\prime \prime}$ overoll, effective length is $11.13 / 16^{\prime \prime}$
PK-270 Latoyette $12^{\prime \prime}$ Tone Arm. Shpg. wl., $11 / 2$ lbs.
Not 17.50
PK- 280 Letaretio $10^{\prime \prime}$ Yone Arm. Shpg. wi., 2 Ibs.
Nel 19.50

## ONLY Lafayette CAN BRING YOU A VISCOUS-DAMPED STEREO TRANSCRIPTION TONE ARM AT THIS PRICE! - THE PROFESSIONAL 12" PK-90S



Page 80

- JEwEl eearing suprort - instant plug-In cartidide change - automatic fluId contmol epiafict ricono trackinc
- accommooates most sperio a momaural high bloellty caliriogis


## NEW! Lafayefte VISCOUS-DAMPED STEREO TONE ARM

This sterce/monourol transeription orm ostures dependable and stoble operation, ultilsing the footing.oction principle of viscous-domping. The arm hi supported of o single polint by oplvot ond lewel beoring having negligible Prietion. Domplng is occomplished by o sillcone Auld occupying the gap botween o boll and cocket. This damping contral permits high complionce and negligible rocking error ond provents domage to sither record or stylus should the tone orm be occidentolly drepped. Law frequency resononce. ikidding ond groovejumping ore likewlse minlmized. The tone orm accepts all records up to $12^{\prime \prime}$ and accommadater virfuolly oll sterec or Manaurol hI . A cortridges by meons af prochely ongincered adapters which ilmplity instoltotion ond

 $21 / 1616$.
PK-90S $-12^{\prime \prime}$ VISCOUS-DAMPED STEREO TONE ARM

# LaFAYETTE PROFESSIONAL TURNTABLE WITH AUTHENTC HYSTERESIS SYNCHRONOUS MOTOR PERFECT FOR NEW STEREO \& MONAURAL RECORDS 

 PROFESSIONAL 4-SPEED TURNTABLE WITH HYSTERESIS-SYNCHRONOUS MOTOR The LAFAYETTE TRUE HYSTERESIS-SYNCHRONOUS MOTOR. Since mony so-colled "hysleresis" motors hove oppeared ond wlll continue to oppeor an the morket, it is importont that you know the difference between the real thing, os provided by lofoyette, ond the imitotors with partiol hysteresis motors.the lafayette tiue hysteresis synchronous motor is perfect for the new stereo and monaural TECORDS. THE FACT THAT THE NEW STEREO RECORDS CONTAIN VERTICAL MODULATION IMPOSES STRINGENT QEQUIREMENTS ON TURNTABLES. TMEY MAVE TO BE FREE FROM RUMBLE, FLUTTER, WOW AND SPEED VARIA. TION. THE LAFAYETTE TRUE HYSTERESIS SYNCHRONOUS MOTOR MEETS ALI THESE REOUIREMENTS WITH EFFORTLESS EASE, RESULTING IN SUPERIOR REPRODUCTION OF STEREO DISCS. AS WELL AS TREMENDOUS
REDCTION IN RECORD WEAR.
ONLY LAFAYETE'S HYSTERESIS-SYNCHRONOUS MOTOR, in its price closs, is modn to extremely fine toleronces fon the order of 100001 inches)l Only Lofayette's mator hos 16 cores, o hish permeability ratar mognet, boll hrust beopings, oilite sleeve beorings plus felt oft reservair, coaling hiss as on integral part of the rotor and a holthow disossembly, mrough om efficiency ond minimum heot. Only Lofoyelle's motor can be oiled from obove, without disossombly, through o unique oll feed system. Only Lofoyette's motor hos o self-oligning ormoture
ONLY LAFAYETTE CAN GIVE YOU A REALIY PROFESSIONAL TURNTABLE WITM IRUE HYSTERESISSYNCMRONOUS MOTOR AT SUCH AMAZINGIY LOW PRICESI
Herets THE turntable-the lost word in professional high-fidelity performancel A fine precision instrument in every sense. Just look of some of these OUTSTANDING FEATURES:-WOW AND FLUTTER: LEss than diometer-weighs opprox. ${ }^{2}$ lbs, and provides amozingly constant speed, the extro-heavy rim octs iust like a flywhel to prevent speed voriations PRUE HYSTERESIS-SYNCHRONOUS MOTOR: fior smooth low. noise, wow, ond flutter.free operotion - RUMBLE AND NOISES 50 db below overage recorded, low-- INTEGRATED SPEED, CONTROL: FOR all 4 speeds- $78,45,331 / 3$ ond $162 \mathrm{~h} / \mathrm{rpm}$ - 2 OVERSIZE, HEAVY DUTY IDLERS: Preclsion-ground; provide posifive constonispeed rim drive SINGLE BALL THRUST BEARING: TUrntoble rides smoathly over boll bearing flooling on thin film of SINGLE BALL THRUST SHOCK-MOUNTED MOTOR - RUBEER CUSHION SHOCKMOUNTS TAUTOMATIC FREE-FLOATING, MENT - RUBEER MAT - STAINLESS STEEL PRECISION SPINDLE POWER REOUIREMENTSISENGAGE-
 obove ond $4^{\prime \prime}$ below motor board, $143 / 4^{\prime \prime}$ deep $x ~ 121 / 4^{\circ \prime}$ wide - SHIPPING WEIGHT: 16 ths LAFAYETTE MODEL PK-24SW

Ne1 64.50

## LAFAYETTE MONEY-SAVER COMBINATIONS

| COMBINATION |  |  |  |  | COMBINATION WITH. 12* |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { OMB. } \\ & \text { NO. } \end{aligned}$ | $\begin{aligned} & \text { TURN. } \\ & \text { AABLE } \end{aligned}$ | TONE | CARTRIOGE | $\begin{aligned} & \text { SPECIAL } \\ & \text { NET } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { COMB. } \\ & \text { NO. } \end{aligned}$ | TURN. TABLE | TONE ARM | CARTRIDGE | SPECIAL NET |
| PK-424WX | PK-245 | PK-280 | GE VR 225 | 87.95 | PK-425 WX | PK-245 | PK-270 | GE VR 225 |  |
| PK-427WX | PK-245 | PK. 280 | E.V 31 mbs | 87.95 | PK-429WX | PK. 245 | PK. 270 | Pickering 371a | 85.95 |
| PK-428WX | PK. 245 | PK. 280 | Pickering 3714 | A 87.95 | PK-43iwx | PK-245 | PK-270 | E.V 31 MDS | 85.95 |

Averoge 5 hipping Weight of these combinations is 18 tbs

## NEW! LAFAYETTE $12^{\prime \prime}$ SINGLE SPEED $331 / 3$ RPM HYSTERESIS TURNTABLE

- IDEALLY SUITED FOR STERED - TRUE HYSTERESIS-SYMCHRONOUS MOTOR - RUMBLE \& FLUTTER LESS ThAM $02 . \%$ - $41 /$ LE RIM - WEIGHTED ALUMIMUM TURMTABLE
This $33 \mathrm{y} / \mathrm{r}$ rom furntoble offers superior performonce for hi -f ond professianal use. Accurate ond slose toleronce mochining throughout insures trouble-fiee operotion, with extremply law levels of wow. Autter ond rumble. Emplays superiar croftsmonship throughout-oll critical parts ore ground to micro finish. True hysteresis symehronaus motor provides obsolutely constont speed regordless of line voltoge voriotions. Motor bs shoch-mounted with rubber cushion. Hos precision ground shoft which furns on heavy boll.thrust beoring, thereby ellminoling ony verth. col movement-o prerequislte for stereo. The $41 / 2 \mathrm{ib}$. die-cast rim. weighted oluminum furntoble is lob-tested for ongoged in "Of" posifion to prevent hat poats. Sturdy wheel provides positive rim drive. The roller is dis pich-up. A rubber furntoble mat is providod so that moximum lrostion is ossured. less thon $0.2 \%$ wow ond home decar. Hos "On.Ont swlich onerage recording level. The furntoble is oltractively syly to blend with any
 PK-33IW


## LAFAYETTE SPECIAL-VALUE COMBINATION <br> (Bose not included-see index for selection of woodboren)

COMBINATION WITH $16^{\prime \prime}$ ARM

| OMBINATION WITH 16" ARM |  |  |  |  | COMBINATION |  |  | WITH 12"A | ARM |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { COMB. } \\ & \mathrm{NO} . \\ & \hline \end{aligned}$ | TURNPABLE | TONE ARM | CARTRIOGE | SPECIAL <br> 1 NET | COMB. | TURN TABLE | TONE |  | ECIAL |
| PK.432wx | PK-331 | PK.280 | GE VR 225 | 74.50 | PK.4lowx | PKABLE | PK.270 | CARTRİGE | NET |
| PK.434WX | PK-331 | PK. 280 | Piskering 371A | 74.50 | PK-42IWX | PK. 331 | PK.270 | Pickering 3714 | 72.50 |
| PI | PK 331 | PK-280 | E.V 31m0s | 74.50 | PK-422WX | PK.331 | PK-270 | E-V 31 MDS | 72.50 72.50 |

## LAFAYETTE COMPLETE STEREO TRANSCRIPTION PLAYER <br> 5.CONTACT PLUG IN HEAD FOR ALL STEREO CARTRIDGES

4-SPEED, HEAVY DUTY 4-POLE TRANSCRIPTION TYPE INDUCTION MOTOR O MAGNETIC BRAKE FOR $\pm 7 \%$ SPEED ADJUSTMENT STYLUS WEIGHT ADJUSTMENT SCREW ON TONE ARM RUMBLE AND NOISE - 40 DB LESS THAN $0.3 \%$ WOW
This is o complete hi-fl, compolible stereo pickup system, designed ogoinst absolescence and yet priced modestly This top qualjiy manual ployer feafures a 5 contoct plug in head to occommodate the latest iterea as well os mon. Equally important in "contributing tone orm is on integrol part of the mounting plate and requires na installation. Equolly importont in contributing to the encellent performonce of this system is the new 4 -speed turntoble ossembly. adiustment of eoch speed. Sirobory duly a-pole mator, with on exclusive mognetic broke for instantaneaus fine turntable, filted with rubber mot. Provision far casy adiustment of siylus pressure is ovailable. Dimensions of mounting plate $12.15 / 16^{\prime \prime}$ left to right, ond $10 \%$ " front to reor. Requires $2 \%$ below and $3^{\prime \prime}$ obave matar boord, For $105-120 \mathrm{~V}, 60 \mathrm{cps}$. Accessaries included ore: 45 rpm odaptor, output coble to ampllfier and plug in heads. Shpg. PK-1605w
PK-160 SW -romplete stereo ironscription ployer, less cortridge
PK-438W-5omo osobove, but with new GE ModelV 225 cbmpolible sternalcartride with diamond strlus 30.95 PK-16 2 W -Waod basefor obove, custam finished in either mohagany or blande (Please Spocify). Shpg. WP., 5 Ibs.
PK. 163 W Unfinished mounting board for obave. Strang duroble 4 " gumwood. (Shpg. wt., I Ib.). Net. os


## OUTSTANDING TRANSCRIPTION TURNTABLES

## REK-O-KUT TRANSCRIPTION TURNTABLES

## $12^{\prime \prime}$ SINGLE SPEED RONDINES

 MODEL N-33H-A brond.new belt driven $331 / 3 \mathrm{rom}$ turn toble of excellent choracteristics, equipped with o newly designed, solf-lubricating hysteresis synchronous motor incorporating o special winding for reduction of coasting. Naise level is 53 db below average recording level. The turntable disc is solid aluminum, lathe turned ond tapered for easy dise hondifing. A strobe dhe is permanently of toched, permitiling instontoneous checking of speed. The chassis' deck $\mathrm{I}_{\mathrm{s}}$ a $15^{\prime \prime}$ " $15 \%$ " aluminum plate finished in charcool grey and two-tone oluminum. An endless belt of woven fobric with orecision controlled characteristics is wised to prevent noise tronsfor from motor to record. Ad|ustable tension control permitis aptimum odiustment. Mini. mum dimensions for cobinet Instollotion, using the Rok.o. mut 5.120 orm: $1744^{\prime \prime} \times 163 / 0^{\mathrm{N}}$. Shpg. wi., 20 lbs GR-240WX 7.00 Down Net 69.95
## MODEL K-33H <br> TURNTABLE KIT

A new bell driven $331 / 3$ rom furntoble in single kit form tokes opprosimotely 30 minules or hers to assembie woun simple tools. Hos o hloh emciency hysteresis tranter from motor. Uses o belt drive io prevent nolse tronsler fovel. purntable disc is solid aluminum. lothe turned ond topered for eosy dlsc hondling. Bullf.in strobe dise. Minimum di. mensions for cobinet insillation, wasing Rek. OU Meight. ormi $17 \%_{6}{ }^{\prime \prime}$ " $163^{\prime \prime}$. Height obove deck - ${ }^{\prime \prime}$ " Height. below - 4". Finished in shlver tone olymin.
GR.241wx Ner 49.95 CR-242WX Some as above, but for 110.120 volts, 30 evcle AC. $\quad 0.00$ Down $\quad$ Nel 59.95

MODEL K-33. SImilor to K.J3H kll obove, but hos heovy. dury 4 -pole Induction motor ond is Anished in decorotor gray and iwo-tone oluminum. For 110.120 volts, 00 cycle
GR.243WX
MODEL K.33. As obove but for $110-120$ volts, 30 cycle AC. GR-244WX

## 12" 2-SPEED RONDINES

MODEL L.34-2-speed iurntoble for migh-Adelity use. Turnioble is internally rim-diven, of heovy cont-aly. minum olloy, lothefurned for precision bolonce. Nolise lovel 40 db below overoge recording level. Wow $\pm$ $0.25 \%$. Special 4.pole induction motor. Single knob speed selector, with "off" position between speeds. permonently-oltoched stroboscope disc for checking speeds. Bulfi.in, retroctoble hub for 45 rom records. Heovy gouge steol deck. Hommertone groy finish. For 110.120 volts. 00 CDSAC. Size $12^{\prime \prime} \times 15^{\prime \prime \prime}$ helght obove deck $1 \frac{1}{a^{\prime "} ;}$ depth below deck $5^{\prime \prime}$. Shpg. wh. 15 lbs.
GR-246WX For $33 \%$ ond $45 \mathrm{rom}-0.00$ Down-Net 59.95 MODEL L .37 Some os t .34 , buf for $331 /$ and 78 rpm GR-247WX
0.00 Down Nel 59.95

## $12^{\prime \prime}$ 3-SPEED RONDINES

MODEL B. 12 H - With hysteresis-synchronous self-lubil. moort bitar for lowest possible wow and Aulteri coting from free from rumble. Exiro heory furnioble rim, iluminum. costing. Noise level 57 db below overoge recording level. 3. speedsy "of" position between speed positions. Roo troctoble $45 . \mathrm{rpm}$ hub. Stroboscope disc, permonently of loched. Compensotion odustment tor sight speed vario. Hion. Neon bulb pllot light. Cross-ribbed cost oluminum chossis deck. Sifvertone oluminum finish. Size $153 /{ }^{\prime \prime}$ $14^{\prime \prime}$; cleoronce reaulred
$01 / 2$. Shpo. w1., 20 lbs .
GR-248WX with hysteresis-synchronous motor
14.00 Down

Net 139.95
MODEL E-12GM Some as obove, but ures newly detigned nystereshs motor. Noise level - 53 db GR-249wX ....................... 99.95 MODEL B. 12 similor to B.12H but with custom 4-pole induction motor. Noiso lovel - so db. GR-2sow $X$
8.49 Down

Net 84.95

## UNIVERSAL BASES

| $\begin{aligned} & \text { SiectHe, } \\ & \text { CR.251w } \\ & \text { GR.258w } \end{aligned}$ | Medel Por |  | Describition | MET |
| :---: | :---: | :---: | :---: | :---: |
|  | dw | ALL MODELS | Solid Wolnut | 19.85 |
|  | U | alt mooels | Unfinished | 10.95 |
| M010 B Bares |  |  |  |  |
| Cr.25]w | mt. 1 |  | Solid Walnul | 3.83 |
| CR.2stw | mL. 3 | L.34 and 1.37 | White Locqurr | 1.50 |
| G6.25sw | MK. 3 | K.33 and K.33H | White tacquen | 7.95 |
| Gh.256w | mk. 1 | K .33 and K .33 H | Unfinished | 4.95 |
| ROLL QUI PLATEORM |  |  |  |  |
| 68.837 W | 008.12 | ) All mOdEls | Stained Plywood | 7.95 |

GR.25EN $10^{\prime \prime}$ EXTEMSION POR $16{ }^{\prime \prime}$ TOMEARMS


GR-115 $12^{\prime \prime}$ ATHER SUPDert for PO.124-Wolnul, Mahogony CR 11 lb

## FAIRCHILD TURNTABLES

MODEL 412-1. Single soeed, 33\% rpm bosic unit, self drive self.lubricoting hystoresis synchronous motor, bol. drive, soll.lubricoting hysteresis synchronous motor. beo. Moin shoft micro-honed, runs in polished babbitt. Acous. Moin shoft micro-honed, RUns in polishod babbil. morgin.
 Requltes mounting boord $16^{\prime \prime}$ wlde, cutoul $131^{\prime \prime}$ " $8^{\prime \prime}$; $\mathrm{O}^{\circ "}$ cleorance below boord. For 110.120 volts. 00 cps AC .
shpg . Wi., 28 lbs. less bose ond tone orm. Shpg. Wh. ${ }^{28}$ lbs. Less bose ond tone orm, Nel 79.50
GR. $870 \mathrm{~W} \times 1.00$ Down GR-270WX 8.00 Down
MODEL $412-2$. Some os obove, but MODEL 412.2 Some os ob
Hos buill.in 45 rom odopter.
GR-27IWX 10.00 Down
GR-271WX Nol 99.50 MODEL 412 A . Some os 412.1 , but 4 -speed modet with now Electronic Drive, o plug-in vorioble trequency olec. tonic power ivpply Soeeds odjustoble $t 3 \%$. For $50 / 60$ cps 110.120 volts AC. Draws 160 wotts. Shpg. wh.. 25 lbs. GR-272WX 24.80 Down Noi 246.00 412 -8F - Bose for models 812.1 and 412.2 turntables. Shock mounted. In ofl finished wolnut with white tormico
 - lbs.

GR.273W - Bose (illustroted) $\qquad$ Net 20.00
BOGEN-PRESTO HI-FI TURNTABLE MODEL TT-3 Designed for critical listening to steroo records, single speed $331 / 2$ rpm furntable with precision hysterosis motor. Hos bell-drive system that virfually eliminates rumble, wow and huller. Includes builf. in strobe disc for checking of speed ond spectiolly designed furntoble mot for perfect traction and genlle hondling of records Shpg. wf. 17 lbs .
GR-280W
ow
0.00 Dawn wolaut

Net 59.95
PRY Wood
GR.28IW


Page 82 RECORD PLAYING EQUIPMENT IS AVAILABLE ON LAFAYETTE'S EASY PAYMENT PLAN - SEE PAGE 302

# FAMOUS HI-FI STEREO-MONAURAL TURNTABLES 



## SOGEN VARIABLE-SPEED HI-FI STEREO TURNTABLES

50-16ld - with new GE YR-225 (5 mil) Diamond Stereo Cortridge. Shpg. wi., 17 lbs. GR-278W Net 52.90
B50-16lCs - with E-V 31 MDS $\{5 \mathrm{mil}$ ) Diamond Stereo Cartridge. Shpg. wh., 17 Ibs GR-279W

MODEL BSO-1.6LCS-foctory equipped for stereo, this model will accept stendord stereo and monourol car lridges. For dises up to $16^{*}$ diometer. Confinuously varioble speed captrol from below 16 to 86 rpm , natched at $16 \%, 33 \%, 45$ and 78 pmm . Heary-duly 4 pole constons. velacity motor. Weighted bolonced turntable of $11 \%{ }^{*}$ diometer, bs filted with o serroted rubber pod to minimize fronsfer of mechonical vibration. "Wow" lest than $0.5 \%$ : negligible rumble. "Feather-Orop" oction of pichup orm preverts domage ta siylus ar recard. Adjustable stylus pressure Supplied with vibrotion iscolotors. For 95 125 volts. 60 cps AC. Maunting spoce $15^{\prime \prime}$. $11 \%^{\prime \prime}: 2 \%{ }^{\prime \prime}$ abave and $1 \%{ }^{*}$ below mounting board. Shpg. wi., 17 lbs . A-50.18 1CS - With plug-in-heod - less cartridge GR-2B2W 5.00 Down Nel 40.40 P8 $\$$ Mahogany Wood base for 850 Iurnioble. Shpg. Wt., lbs.
GR-283W Not 4.80 H. 2 Plug in Heod-wired for stereo for 8. 50 turntoble CWR-284 - Stereo Conversion Kit for 8.50 werier turntoble 2.2 Glin-2 8 roble

## PICKERING "GYROPOISE 800"

A rodically new ideo in turntoble design has sompletely liminated the mast serious problem in sterea record re-production-verical rumble. Instead of o vibration-producing vefticel bearing. the Gyrapoise revolves in mognetic suspensian - the turntoble flomts on o cushion of oir. Fluller on-s wow ore vintually eliminoted by means of 05 db telow reference level. The fult is a noise level of has a tolal spererence level. Tho ully synchronous molor has a tolal speed variation of only $.2 \%$. This furntable is designed specifically for 33 hrpm microsroove records. up - $12^{-}$in diometer. It employs o built-in precision leveling adiustment with level indicator. A loom rubber purntoble mot prolects selicale erord surfoces. Ponel dimensions $13 h^{\prime \prime}$ = $13 \% h^{\circ}$. height above panel $1 \% \%$. depth below panol 3". Shpa. wr., 11 lbs.

## GR-310W

6.00 Down

Net 59.85 Pichering 800 CB WOODAASE - For " 800 " Turmoble Specify mohagany, wolnut or blonde. Shog. GR-3II W

Net 15.00


MODEL 860 Phono Merhonism - Completely wired for Slereophonic and monoural high.fidelity systems. Four pole, hoov-duly, canstont-velocity motor and balonced $11 \frac{1}{4}{ }^{\prime \prime}$ rubber-podided turnioble. Four speeds, $16 \%, 331 / 2$. 45 and 78 rpm , continuously variable from 29 to 86 rpm Protessionol style orm has plug-in head. Arm is roised ond lawered by fip-switsh and features micromeler-type, eosy to reod weight adjustment gouge. Wow ond hutter are less then $.25 \%$ of 33 h rpm even better of foster speeds. For $95-125$ valts 60 cps AC. Shpe. Wh. 20 lbs. speeds. For $95-125$ volts 60 cps AC. Shpg. Wi., 20 lts.
GR-286WX
5.00 Down.. 49.95 GR-286WX 5.00 Down.. Nei 49.95
MOOEL B B the 860, but with non-ferrous $71 / 4$ ths. furntoble provid. ing no meosurable hum or Auffer. Shps. wi.. 24 lbs: GR-287WX 5.50 Down Nel 34.95 P8. 6 Walnut Wood bave for 860 ond 861 . Shpe. wf., 5 ths GR-288w Net 5.25 H. 4 Aluminum Head - Plug-in head for 860 and 181
GR-289

## WEATHERS ML- 1 TURNTABLE

This lighrweight furmioble ochieves oll of the long soughtfor odvantoges of lightness, eliminating the mechanical naise inherent in heovy turniobles. It uses o 12 pole syn. chronous motor smoll enough to generate littie vibrotion, yet hoving odequote ferque to mointain exectly synchronous speed despite normal voriotions of lood or lime volloge. The net result is a nolse level 25 db lower then the noise on the best records ovoiloble lodoy. This 331/h them single-speed best records ovailoble lodoy. This $331 / 2$ rpm single-speed turntoble is specifiselly designed for modern pickups with wide range response and low trock ing pressure. Mounted on o $14 \%$ " $15 \%$ metol motor boord with o tolal overall height of only 2 Km . this furntoble is one of the lighiest. most compoct on the mortel. Model ML. 1 Turntoble with bore. Shpg. wt., 13 Ibs.
G. 0.321 w G貫-321w 0.00 Down
Shpe. Wh. ths
5.00 Down

Net 34.50
M. 6010 - Weothers Stereoromic pichup system ond ML-I Turniable completely assembled on bony bose, ready to plug into on eristing audio syitem. Shpg. wi. it lbs. GR-323wx 11.95 Down Net 119.50

## KL-I TURNTABLE KIT

This hit is identical with the MI-I synchronous turntable. ercept that it does not same mounted on a motorboord Shog. W1. 10 Ibs.
CR-370W (less base)
5.00 Down Net 49.95

LAFAYETTE'S FINEST PORTABLE PHONOGRAPH

- plays both stereo and monaural
- FUIIY automatic garrard changer
- IWO POWERFUL 10 WATI AmpIIFIERS
- second speaker easily detached

A complete portoble ond compact stereo phonogroph in One convenient cose. Spstom uses the well-known Gerrord RC- $121 / 114$-speed stereo changer which feapures true inrermix of $12^{\prime \prime}$ and $10^{\prime \prime}$ recerds in any order with instont Usestion of either outomatic or full monvol operation. Uses a stereo turnover cortridge to ploy oll your recards-
whel whorser monourol or sterco. Two powerful 10 wott ampli-
fiers provide o frequency response of 50 to $12,000 \mathrm{cps}$. fiers provide o frequency response of 50 to $12,000 \mathrm{cps}$.
Controls included: Moster Volume: Remote speaker volume: Confrols included: Master Volume: Remote speaker volume:

 one $4^{\prime \prime}$ tweeler. Phonograph hos easy-grip hondle on ap tractive 3 mort-looking Proarylin covered case. Size: $18 \%$ " long, $15 \%$ " wide. 9 " high. Shpg. Wh., $361 / \mathrm{lbs}$. Cemplete Stereo phonogroph with remole speaker PM-128wX Only 8.95 Down - 8.00 Monthly

## GRAY MODEL 33-H STEREO TURNTABLE

MODEL $33 \cdot \mathrm{H}$ Operating of a single speed of $331 / 3 \mathrm{ppm}$ the furntable has a minimum of moving ports, lintroger and other mechonical cemponents; thus ossuring troubleGree long-life service. The auilit operation of the top quality hysieresis-synchronous motor is mode even better by the use of 1 oecial shack mounis and by using a shoek obsorbing herible bell drive system. Wow. hutter and rumble belter than NARTS requirements. Finished in gold, black and satin aluminum. Supplied with pilet light, 2-5 oudio cobles ond $8^{\prime}$ line cord. Size: $16 \times 14 \%^{\prime \prime 2}, 3^{\prime \prime}$ belaw and $2 \%$ " obove mounting plute. For 117 volts, 60 cps. Shps. Wt., 18 lbs. less bose and rone orm. Glif-100WX 8.00 Down .... Net 79.95 MODEI 33.C WOODEASE for 33-H. Specify Mohagony. Wolnut or Blonde finish. Shps. wi.. is lbs.
GR-301W … 5.00 Down ..........................23.95 MOOEL HSK-33 KIT Single Soeed $331 / 3$ PM Turntobie kit with Mrsteresis Synchronous Motar. Shpg. wt., It Ibs. GR-302W 5.00 Down …... Net 49.50 MOOEL TBA FORMICA BASE Specify Mahogony. Wolnut. or slonde. Shpe. GR .., 15 lbs
GR-303w
Ne: 17.95

## At Last! <br> A TAPE RECORDER EVERYONE CAN AFFORD

A Precision Unit Imported to
Bring You Super Volue and Economy

- WEIGHS ONLY T1/2 LBS.
- complete with monitor jack and Ear Phone
- USES STANDARD $5^{*}$ REEL
- record lock prevents accidental erasure


### 69.95

7.00 DOWN 7.00 MONTMLY


Perfect for dictotion of the office. lecture notes and speech correction for the student or for that party of hame. This of 34 ios provides up to ane hour of eecording ime aned stondord 600 fs . $5^{4}$ reel of tope. Speciol permonent moznet dynomic speaker insures clear repioduction. Complete drnomis speaker insures slear repioduction. Complete
with sensilive microphone plus earphone for monitoring. All the features of the lorger units yet weighs only $71 / 2$
 tively finished in iwo-tone scuf resistont vinyl prpe moieriol. Shpg. Wi. 10 lbs
RK-104wx 7.00 Down

## PENTRON STEREO \& MONAURAL TAPE RECORDERS



## "CONCERTO" STEREO MODEL TR-IOS

The new "Concerto" is designed to coplure the octuol sound of onything you record. Discover the exclting realism of recording and listening to your own stereophonic lopes or pre-recorded lopes. Two speeds: $71 / 2$ and $3 \%$ ips. Feotures wide ronge professional quality spring looded 3 -point mount for aximuth ond height odfustments. Moy be used os p.o. syitem by plugging mite into rodio input. Mas os p.o. irtem by pluging mitre into rodio input. Nos powerful heary duty pate, shoded pale motor, dynomically and individuolly balanced. Power oufput: $6^{\prime \prime}$ round PM worts. Include o round PM extended ronge ipeoker. Unimogic lowind. Sepora: interlock record button. Onerword, Foit hewind. Sepora: interlock record button. One anob speed change contral. Seporate volume control. Tone control for continuously varioble response with on- off switch. heod (4-prock or 2-trock with 80 micro-inch in-line stereo heod (4-frock or 2-trock with 80 micro-inch gop) and o holf-track double gap erase head. Record level Indicator is of neon type. Fast forward winds $7^{\prime \prime} \mathrm{reel}$ in 75 sec . Fatt rewind rewinds $7^{\mu \prime}$ reel In 90 esc. Frequencr response: $40.11,000 \mathrm{cps}$ of 7 h ips and $40.7,000 \mathrm{cps}$ at $3 \mathrm{l} / \mathrm{jps}$. Signol to noise ratioz -45 db . Flutters Under $0.4 \%$ of $7 \frac{1}{2}$ ips. Inputs, 1 for mic or mognelic phono cortridge; I for rodic. TV, erystot cortridee. Oulpufts 1 for external amplifier or heod phone monitorings 1 for eaternol specker. Tube complements 6J7, 6517. 6x5, 6U6. For $105 / 120 \mathrm{~V}, 60$ cycler $A C$. Sise: $11 \times 14^{\prime} \times 17^{\prime \prime}$. Comptote with sensitive erystol thigh impedoncel mike. Shpg. Wt.. 27 lbs.
RK-200WX ……........ 14.00 Down ..................Nef 139.95
PENTRON MONOPHONIC MODEL TR-10. Similor to above, but with combinolion precision Record/Play head ond a holf-trock double oop oras heod for monophonic use.

買-201wx
11.00 Down

Net 109.95

## "ARISTOCRAT II"

## STEREO MODEL TR-20

Bring thrilling stereo performonce into your home with this complete self-contained stereo ployboct irstem with monophonic record/ploybects. Two speedss $71 / 3$ and $31 / \mathrm{ips}$. Hos two detochoble speaker cobinets, eoch contoining two speakers. Can be tocoted as desired for true stereo repreduction. Feofures outomotic micro switch shut-off of the end of the real; instont automatic broking, outomotic idter disengagement, profestional digifal iype index counter, illuminated vu protessional digilal lype indez and tope lifter during fost forward and rewind ideat for and os power omplifier and forward and rewind. Ideal for ute os power omplifier ond speoker syitem for ohonogroph, tuner, radio. TV. elc. Powerful heovy duty 4 pole, shoded pote molor, dynomically and individuolly bolanced. Power oulpul: 20 wolts push-pull: 2 independent pre.omp and 2 independent power amplification chennols. Frequency resonse: $40-15,000 \mathrm{cps}$ of 7 y ipt and $40-12,500 \mathrm{cpt}$ of $3 \%$ ips. NAB stondord equalization. Flutter under $.3 \%$ af $71 / 3$ ips. Signol to naise ratior -52 db . Ho compotible in-line stereo head (A-frock or 2-track) and o holf.track double gop erose heod. Controls: Finger Flite single rotory contral for Ploy, lecord, Forl Forword, Fott Rewind. Seporole inferlock record button. 2 vol. controls, 2 tone cantrals. Quick.Flip iped change control. 2 inpuits 1 for magnetic phona or mic.; 1 for rodio. TV, etc. Outputs: 2 for enternal amplifierts 2 for external speokers. Fosl Forward winds $7^{\prime \prime}$ reel in 75 seconds. Fost rewind winds $7^{\prime \prime}$ reel in 90 ecconds. Cobinet finished in beautiful twatone with Shur-Grip Decor hondle. For 105/120V., 60 cycles AC. Complete with super sensitive, crystal (high impedioncel mike, emply toke-up reel, reel of blontit tope, Instruction monual. Size: $22 \mathrm{~h} \times 11 \mathrm{~K} \times 15 \% \mathrm{~m}$. Shpg. wi., 42 lbr.
RK-204WX
27.00 Down

Net 269.95

## "EMPEROR II" STEREO MODEL NL-4

Pentron's latest development in self-contoined, portable tope recorders is a dream. The Emperar II hos been specially designed for taping stereo discs, AM-FM, and Multiplex broodcosts. It has every conceivoble device for fast, sofe and quality operotion. Head Assembly In-line stereo record/play ( 4 track and 2 trock); one stereo/mono. phonic erove. Speeds, $71 / \mathrm{ips}$ and $31 / 4$ lps for record/olay. fost forword (wind $7^{\prime \prime}$ reel, in $75{ }^{\circ} \mathrm{lec}$.) fort rewind fre. wind $7^{\prime \prime \prime}$ reel in 90 sec.). Automotic micro-switch shut-off, instont outomatic braking; automatic idler disengagement and tape-lfter for elimination of sound in fast positions. Mos digital rype "foaloge" counter and 2 electron beam. Mos digital rype "floologe" counter ond 2 eiectron beam recarding level indcotor. Controlis single.rotory for Ploy/ Record/Fost forword/Rewind; Sofety Interiock Record but-
tong two volume; two Bots/Treble: Monitor Chonnel I/ tony two volume; two Bots/Treble: Monitor Chonnel $1 /$ Chonnel 2; Record Selector Switch. Motor is o powerful.
heary duty 4-pole. shoded-pole ivon. dynomicolly bal. heavy duty 4-pole, shoded-pole troe. dynomicolly bal.
onced, SPECIFICATIONS: Response- $40-15,000 \mathrm{cps}$ of $71 / 3$ ips; $40-12.000 \mathrm{cps}$ of $3 \% \mathrm{~m} / \mathrm{sec}$. Power- 20 wotts push-pull with 2 independent pre-omp. Units ond 2 independent omp units. Equolizotion-NAB ploybock of $71 / 2 \mathrm{ips}$. Noisedown 50 db of full outputs. Flutter-Under $0.3 \%$ of $7 \mathrm{~K}^{\prime \prime} /$ sec. Inputs-Microphanes or external sources. OutputsTwo for external amplifler, fwa for external speakersmoy be uted of o public oddrest syitem, too. Internal Speokers-2 4x6 oval type for thereo monitoring ond ploy: bock, and moy be used in conlunction with enternol speokers MODEL ES. 2 fo provide the ultimo: in reolism. Comploment of 14 fubes. Size $17.1 / 16^{\prime \prime} \mathrm{W}=17.1 / 16^{\prime \prime} \mathrm{L}$ x $10 \%$ H. Shpg. wt. 45 Jbs .
TK-202wx
37.50 Down .................Not 375.00

## PENTRON MIC. MIXER MODEL CA-14

## ux. 21

Page 84
5.00 Down …..................Net 39.95

## MODEL ES-2 SPEAKER SYSTEM

Matching seporate spoker enclosures for NL-4 or ony hi-fi srstom. Each contoins on $g^{\prime \prime}$ cooxiol speoker, one $3^{\prime \prime}$ tweeter, and a crossover networth. Sizei $14: 9: 16^{\prime \prime}$. Shpg. wt., 17 lbs.
RK-205
6.00 Down

Not 39.95

MODEL RC-6-Remate Control for NL-4
Permits choirside ourol boloncing of channels providing the utmot in listening convenience. Equipped with master volume contral, bolonce control and reversing channol volume contral, bolonce cantrol and reversing chonnol plug fits into Input receptoclo on Ni-4 recorder. 1 lb.
RK-206
Not 15.95

## COMPANION AMPLIFIER/SPEAKER MODEL SS-6I

The Model $\$ 5.61$, identical in size and oppecrance. is designed to complement the TRIUMPH recorder. Contoins - portoble amplifier and speaker combination. Hos reparote volume ond tone contral. Ideal combination for perfection in tereophonic reproduction. Shpg. wt., 9 tbs.

## TA-7 PORTABLE SPEAKER/AMPLIFIER SYSTEM

The ideal "odd-on" unit for "Concerto" [TR-10SI stereo tope recorder to complete the second chonnat. Contains notwork. Hos ieporate volume and Bass/Treble controls. Motches "Concerto": in design ond oppeorance. Size: $12^{3 / n} \times 124^{\prime \prime} \times 8 \% "$. Shps. wh... 10 lbs.
RK-208 5.00 Down

## "TRIUMPH" STEREO MODEL XP-6OS

The oll now "Triumph" stereophonic recorder will bring you reol-llfe sound and furn ony room into o concert holl. Moy be used os p.o. irstem by plueging microphone into rodio input jock. Feotures Push Bution Contrals that allow rodio inpul jock. Feotures Push Button Controls that ollow you to jocker from Wind to kowind, or vice verbo; inder counter. Advonced olectrenic desion feolures stroight AC power tronsformer circuitry (no shoct hozord, no hum). power fronsformer circuitry (no shock hozord, no humf. wow. Flick of o swhth allowi optional monitoring in Record. Automatic shut-aff slops mochine when tope runs out. 2 speeds: $71 / 3$ ips and $3 \%$ ips. Wide ronge ipring. looded 3-point mount for arimuth ond helght odiustment Individual control bultons for Ploy, Record, Wind, Rowind, and Stop. Impasible to occidentolly erase, spill, or breok tope. Separote tone contral and volume control. Flick of o switch changer speed, oven while mochine is in operotlon. Feolures 3-ipeoker performonce: one $4 \times 6$ ovol (with built-in whizer conol; and one 4" PM. Heads include Compotible in. line stereo head (4-1rack or 2-track) and a holf-Irock double sop arose heod. Inpufs: 1 for lower level; 1 for radio. IV, elc. Outputs: Ifor 8 ohm externol ipeoker; I for external power omplifier. SpecificationsFrequency response: $\mathbf{4 0 . 1 5 , 0 0 0} \mathrm{cps}$ of $71 / \mathrm{sfs}, 40-12.500$ cps of $3 \% \mathrm{jps}$. Equolization: NAB stondord. Signol to noise rollo: $-\$ 2 \mathrm{db}$. Wind or rewind $7^{\prime \prime}$ reel of lope in 80 sec . Flutter under $0.3 \%$ of $7 \%$ ips. Motor is of heavy dufy 4 pole, thoded pole, dynomicolly ond individually bolonced. Recording lime: 3 hrt. on 7" long ploy real. For $105 / 120$ V., 60 evcles AC. Complete with super senit. tive, crystal (high impedonce) mike; empty toke up reel: reel of blonk lope: instruction monual; $A C$ line cord Sive: $61 /{ }^{1 / 2} 121 / 4 \times 12 \%{ }^{\prime \prime}$ Shpg. wi., 20 lbs . Net 190.95 PENTRON MONOPHONIC MODEL XP-60. Some os above, but with monaphonic combination precition Recard/ Ploy haod ond o holf-trock double gop erase heod. RK-210wx


## POPULAR AWARD-WINNING TAPE RECORDER VALUES!



## Wollensak

MODEL T-1500 H1-FI TAPE RECORDER
TAPE RECORDER • 10 watts push-puli outputi. mrr's guaranteld specsi - risponsi 40 15,000 CPS $\pm 3$ DIA AT 7.5 IPSI - DISTORTION LESS THAN $0.8 \%$ ' WOW AND FIUTTER BELOW $0.3 \%$ THAN O.8\% ' WOW AND FIUTTER BELOW O.3\% CBS.
reolly presision partoble high fidelity recorder mode by o fomous monufocturer of precision oplics. This lotest model T-1500 is mode ovoiloble, for the FIRST TIME AT THIS PRICE, BY LAFAYEPTEI Duol speed 13.75 ond 7.5 inches per second), duol trock-provides up to 4 hrs. of record or plopbock time. Urilizes miniofurized components ond oll-metol oirplone type construction to ochieve reol portobitity-weighs only 18 lbs.
 to-noise rotio $48 \mathrm{db;} 2$ speciol hum bolonce controls; "Solonced Tone" high fidelity; exclusive high speed rewind lever;
2 -fevel recording indicotor; precision index counter. Supplied complete with ceromice wide-ronge microphone. 1 reel of
 Also ovoiloble in 50 cycle units specify. RK-40swX Reg. T99.50...13.95 Down SALEI Nel 139.50 MODEL T-15IS STEREO HI-FI TAPE RECORDER
Some feolures os Model T. 1500 excepl with the oddition of stereo heod ond o built-in second preomp. Shpg. wh. 24 Ibs. RK-406WX-Req. $229.50-16.75$ Down SALE

MODEL T. 1600
With ramote control, ceromic microphone, 2 reels, tope

ELECTRONICALIY CONTROLIED RECORDER Stops rewinds, reploys, furns off outomoticolly. New BACK SPACE BAR provides instont ond immediote reploy of ony port of the tode. PUSH-TO-TALK Control on The Microphone permits operation from remate locolion. Electrical specificotions ond features similar to MODEL T-1500 plus odded function Indicotor lomps. Shpg. wf. 23 lbs.

## ACCESSORIES FOR WOLLENSAK.TAPE RECORDERS

## SK. 707 Stereo conversion hit for $\$ 1500$ and T 1600 . Shpp

WR. 116
5.00 Down

Nel 31.50
TSC- 405 CASE-genuine virgin vinyl, slip-over type cose for Wollensoh recorders. Shpg. wi., 2 lbs.
RK-410W
TE-401 EAR PHONE-Low impedonce. Shog. Wet 8087 RK-411 Net 9.45 TF. 404 FOOT CONTROL-Starts and slops tope instonily. RK-412 For 1500 series only. Shog. w1., 2 lbs. Net 15.75

RK-4is
and cords.
RK.407WX Reg. $299.50-23.75$ Down Solel Nel 237.50 MODEL T-1616 STEREO RECORDER. Some electronic-outomatic feotures ond occescories os MODEL T.1600. but with odded IN. LINE stereophonic ployboch heod ond buill-in second preamp. Shpg. Wh., 26 lbs.
RK-408WX Reg. $329.50-26.12$ Down Sole! Net 261.25

2 lbs.
Al96.2 MIKE EXTENSION CORD-15' with Wollensol Nolug and joch. Shpo. w1. 1 lb .
QK-414 Net 6.75
Al96.12 ATTACHMENT CORD-Connects rodio. IV, phono.
RK 416 Net 2.75
A190.13 HI-FI CABLE CONNECTS recorder to omplifiers ond funers. 4 ft . shielded cord with plugs. Net 1.80
LAFAYETTE SCOOPS THE TAPE RECORDER INDUSTRY WITH THE NEW LAFAYETTE RK-IDJWX
DUAL SPEED TAPE RECORDER - PROFESSIONAL QUALITY AT A PRICE YOU CAN AFFORD!
PUSH-BUTTON CONTROLS - DUAL SPEED - TWIN SPEAKER - TAPE INDEX COUNTER - SIGNAL TO NOISE RATIO BETTER THAN 40 DE WOW AND FIUTTER LESS THAN $0.35 \%$ DUAL TRACK
Loloyette has itl wo ore not at liberty to divulge the notionally fomous name of this intrument's monufocturer. Mowever, we ore confident that its leotures will speok for themselves - rugged fool-proof push-bution controls for ploy, record, rewind, forword ond stop. Automatic interspill, or breok tope. Duol speeds $-71 / 2$ and $33 / \mathrm{lps}$. Record level indiceotor to focilitote recording. Fost forword and rewind - $1200^{\circ}$ in 80 seconds. Accepts $7^{\prime \prime \prime}$ reel size.
Iwin matehed speokers for $360^{\prime \prime}$ sound distribution. Tope

## RECORDIO MODE: 592 .Mux

## SELF-CONTAINED STEREOPHONIC TAPE RECORDER

Press o button ond, rich, high fidelity sound corries you
right into the recording sludio. Ploys stereo tope-records right into the recording studio. Ploys stereo tope-records monophonicolly. Feofures include: multi-purpose inpuls. externol speoker ond omplifier oupputs, compensoted duol volume control. 6 wort output. frequency response of 80 10,000 cps., record indicotor. 'Win $\$ \times 7$ entended ronge
speokers, tone control, $40 \mathrm{db} 5 / \mathrm{N}$ ratio. Record interlock

## prevens occideniol rope a $31 /$


lafinjette TAPE RECORDER. .. RECORD-PLAYBACK ANYWHERE FOR ONLY PENNIES PEA
HOUR. . . FOR EXECUTIVES, SALESMEN, PROFESSIONALS, TRAVELERS AND HOBBYISTS. Weighs only 3 pounds-size $81 / "^{\prime \prime}$ $3 \%$ " $11 / /^{\prime \prime}$ - toke it onywhere - in your brielcose or slung over your shoulder. As simple to operote os o comero - only 3 controls; ON OFF - PIAY - RECORD - volume. Completely transistorized. The only pocket tope recorder that operates on one bottery. Records ond ploys bock for one full hour. And here is onother enclusive - $11 / 3$ hour tope cortridges ore olso ovailoble. Tope speed $11 / h^{\prime \prime}$ per second. Slip in - cortridge of recording lope and you re ready :o record. Eliminotes ofd toshioned tope threoding tound in ather tope recorders. Records ond ploys bock with omozing fidel. ity. ond sensitive microphone pichs up conversotion os for as 30 feel owoyl Monual cowind is fost fless thon 2 min .
ules), simple, economical - and loolproofl No bocklosh. No boltery drain. No tope breakage. The hi-fidelity Mylor rope is spasable ond can be used over and over agoin in. definitoly. Recordings con be monitored while they ore
being mode. Visuol bottery lifo indicotor. Recording time indicotor tells you of o glance the recording time romoin. ing. Ploy bock through misrophone. Accommodates o tronsistorized Dower omplifier ond a 2 -inch speoker which fit into the bottery comporiment. Avoiloble as occessory. this unlaue feoture moler the TRANSCORDER completely self-contoined, ond puts it yeors oheod of oll other poskel lope recorders now sold. Two-tone bohed enomel finish. Becouse it is self-powered it is porticulorly useful to announcers. axecutives, solesmen. reportors, conference leaders, lowyers, ond ohysicions who desire of a moment's Motice 10 record importont informotion. TRANSCORDER - complete with combination microphone - oloybock speoker, - one-hour tope recording camtidge
ond 12 hour bottery. Shpg. w1., 4 lbs.

NK-425wx List $249.50 \quad 18.95$ down Solel Net 189.50

## ACCESSORIES



## STEREOPHONIC－HI－FI－QUALITY TAPE RECORDERS



The Ampez＂Coprice：＇－o complete stereo record／repro． duce system in comport．portoble form．Three smortly styled，culf－prsol coses in iwo tone grey and aluminum ducer and model matched speaker－amplifier systems（Model 20101．Frequency remponse： $30 \cdot 20,000 \mathrm{cps}$＠ $7 \%$ ips 30.15 .000 cps ＠ $3 \%$ ips．Will hondle 2 －and 4．trock stereo plus half－frock monoural topes．Migh impedance line ond mite inputs．Prolessional－quality head ossembly －inree seporote．dual－track stocked（in－line）heads for record，playbokt，and erase．Eoch transducer hos 10 －watl linear amplifier and speciolly designed $8^{\prime \prime}$ speoker housed in acousticolly correct enclosure．Individual baionce and tone controls on each unit plus inpui jorks with frant ponel selector switch．Srstem operotionol controls on te－ corder unit．Each unit $15^{\prime \prime}$ wide＂ $17{ }^{\prime \prime} h^{\prime \prime}$ high＂ $0^{\prime \prime}$ deep． Shog．wh．， 42 lbs（recorder）and 36 ths．leach sphr．unit）

## AMPEX TAPE RECORDERS

UNIVERSAL ＂A＂ 900 SERIES


Model 2560．Cemplet stereo system os described．Tope unit plus 2 omplifier speoker unils．Shpg，wi．，Ils ibs． RK－2甲2wx ．．．．．．．．．．．．．．99．50 Down ．．．．．．．．．．．．．．．．．．Nel 甲95．00 Model 960．Portoble recorder．Grey finish．Shpg．wf． 42 lbs．
RK－290WK
65.00 Dow

Net 650.00 Madel 2010 Amplifi speakers．G sh． 36 lbs．

19.95 Down

Net 199.50 Model IWX Model 952．Unm Shpg．Wh． 40 Model 954 Unmount 59.50 Down ．．．．．．．．．．．．．．．．．．．．．．． 595.00 Model 954．Unmounted stereo recarder．Beige finish．

是K－294WX
59.50 Down

Net 595.00

## 601－2 PORTABLE TWO－TRACK STEREOPHONIC RECORDER

The Ampex 601－2 offers o now high leval of perfection in professionol stereophonic recording ond reproduction，and mokes il availoblo in its most compact，partoble form Shock－mounted synchranous pawer drive，posifive shof alignments，and lifetime beorings．Has seporote mikim facility on eoch chonnel belween micraphone ond other inputs．Records both stereo and singlo chanmel fopes Ploy bock stereo，full，or holf－trect topes．Features sep orate mecord and olayback amplifiers，direct reading meler for ploybock ond recording levels，separat erose record（in－line）and playback fin－line）heads，low im－ pedonce output，plug－in law impedonce mic．Pransformer tape speed， $\mathbf{7} \mathrm{K}^{*} / \mathrm{sec}$ ．Frequency response： $30-15,000$ cps．Signal to noise ratio：－ 50 db ．Chonnel separetion： over 50 dt ．Flutler and wow：below $17 \%$ ．Far 117 volls， 60 cycle， 85 wotts．Size： $8 \times 13 \times 24 \%$ fincluding volls． 60 crcle， 85 wotts
cosel．Shps．$w t ., 42$ lbs．
cose）．Shps．Wh．， 42 lbs． Model or2．Includes partable sode ton carrying cose．
RK－295wx．．．．．．．．．．． 98.50 Down ．．．．．．．．．．．Net 995.00 Madel 652 ．Holl irach manourol recorder．Similor quality 10672 ．Includes soddle ton cow．Shpg．wt．， 35 Ibs ． RK－296WX …．．．．．．． 59.50 Down ．．．．．．．．．．．．．．．Net 595.00 Model 654．Full trock monoural tope－recorder．Simila quality to 652．Includes soddle lan case．Shpg．wi．， 35 lbs．
RK－297WX
59.50 Down

Net 595.00


SUPERSCOPE


RECORDERS
EK－310WX ……．．．69．50 Down ．．．．．．．．．．．．．Nel 695.00 Modet GCSX 4－Trock．Aitrock version of obove recorder WK．311wX ．．．．．．．．．．．89．50 Down ．．．．．．．．．．．．．．Net 695.00 Model GCSX With Combination Head．Records ond plays 2－track stereo and ploys A－track stereo．䝮－312WX ．．．．．．．．．．．．．71．50 Down ．．．．．．．．．．．．．．Nei 715．00 Madel GCSX With Combination Heod．Records and olay 4－track stereo and ploys 2－track stereo． RK－313WX 7．s0 Down GC．．．．．．．．${ }^{*}$ Nat 715．00 model SXCC Carrying Cave．For GCSX recorder．Block RX－314 Not 59.00 Model tha Hub Adopior．Hub odopters for NAB hub （10\％＂reel）．Shpg．wi．．I ib． （x－315

Net 10.00

## SUPERSCOPE STEREO RECORDER

A complete sfareo and monoural recarding and playbock system．Features o track stereo ploybock heod， 2 pre． amps and 24 －wott omplitiers； 2 cothode follower preomp Quiputs olso ovollable． 2 speeds $-7 \%$ ips and 34 ips． Response： $30-12,000 \mathrm{cDs} \pm 2 \mathrm{db}$ of $7 \mathrm{Y}, \mathrm{cos}$ ； $30-10,000$ ps of $3 \%$ ips．NARTB avolizolion．Distartion，less tho $2 \%, 3$ db below refed oulpul．Hos individual volume and one controls for each chonnol，plus o moin volume con trat for bath．Feotures 2 －professlonal VU meters，inston－ lonoous slop lever；oufomatic tape lifiers；outomatic head de－mognetizing circuit．Ideal for custom instollotion． $13 \%$＂$\times 15 \%{ }^{\prime \prime} \times 8 \%{ }^{\circ}$ ．Shpg．wi．， 35 libs．
model OK－S55．A4．4－frock recorder os described

## MAGNECORD TAPE RECORDERS

## 101 STEREO RECORDER

Mognecord affers this profestional quality stereo systom in portable luggogeitype cares．Recards and plays back stacked $\{$ in－linel slereo and holf－frosk monaurol．Tape speeds of $3 \%$ and $7 \%$ ips on $5^{\prime \prime}$ and $7^{\prime \prime}$ RETMA reels Frequoncy response： $40-15,000 \mathrm{cps} \pm 2 \mathrm{db}$（ $71 / 4$ ips）． Frequoncy response： $40-15,000 \mathrm{cps} \pm 2 \mathrm{db}(71 / 2 \mathrm{ips})$ ．
$\$ 0-7,500 \mathrm{cps}+2 \mathrm{db}(3 \%$ ips）．Signol－10．nais ratia down more thon 48 db Grosstalt better thon 50 db ratio Two high－impedonce mike ond two high－level ouxiliory inpuls．Wi．， 72 lbs．
RK－340WX 45.00 Down ．．．．．．．．．．．．．．．．．．．．．．．．Net 449.95
72 tbs．
 MK－34 1w Model 110 ．Speoter／omplifier in portoble cose．Shpg．
wl． 38 Ibs．
RK－ 342 wx
13.00 Down

Net 129.95

RK－326WX
RK－326WX ．．．．．．．．．．47．00 Down ．．．．．．．．．．．．．Net 470．00 Model DK－555．A．Some os OK－555．A4，but with 2－chon－ nel in－line record／playbork heads anly．Shpe．wi．， 33 lbs． QX－325wX．．．．．．．39．50 Down ．．．．．．．．Nei 395.00 Madet PSC－212． 2 JBL Signature $12^{\prime \prime} 0.123$ speakers in JBL designed enctosures．Combine to form motching case． Shpg．Wi．． 24 lbs．
RK－327WX 18．90 Down
Net 189.00 Model PC．2．Corrying case for obave recarders．Flnished in rich leather and vinyl．Camplete with mounted $4 \times \delta^{\prime \prime}$ in rich leather ond vinyl．Complete
RK－328WX
7.00 Down

Net 70.00

## FERROGRAPH STEREO TAPE RECORDER

－full stereo ano monaural recono／playback－ 3 motors witw hysteresis synchronous orive MODEL 88 STEREO RECORDER A pertable self－containeo stereo tape

Newest partoble professional stereo recorder．Records stereo，manoural，and sound－on sound．Two speeds： $71 / 2$ ips ond $15^{\circ} \mathrm{ips}$ or $3^{1 / 4}$ ips and $7 \%$ ips．Frequency response： $\pm 2 \mathrm{db} 30.18,000 \mathrm{cps}$（ 15 ips ）； $40-15.000 \mathrm{cps}(71 / 2 \mathrm{ips}):$ $50.8,000 \cos [3 \%$ ips］．Signol－fo－noise rotio：Better thon 50 db per chonnel．Crosslatki Betler thon 55 db per chonnel．Toke up to $10 \%{ }^{\prime \prime}$ reel size．Includes one erose heod，one record／plorbock heod．Inpuis： 2 Hi impedonce mics and 2 unbolonced bridges．In partoble cose．Size：
$17 \%$ r $14 \%=13-9 / 16$ ．Shpg．wi． 50 lbs． $17 \% \times 14 \%=13-9 / 16$ ．Shpg．w1．． 50 lbs．
RK－343wx
Net 809.00 Mognecord $728 \%$ track head．Shpg．wt．， 10 ozs．
RK－344
5.80 Down

Net $\$ 8 . \infty 0$
precision wortmanship and 90 autir components thraughout for lifolong trouble－free pertarmance．Mpical british precision wortmonship and top auality companents thraughout for life lang trauble－free perlarmance．Head ostembly features o duat trock stereo record／pleyback head，full prock erose head．Hysteresis synchronaus mator for copstan drive and 2 high forque heovy duiy mofors to handle fost rewind ond forward．Precision VU level meter serves both trocks vio o taggle switch．Dual professionot quality recording omplifiers and replay preamps．Speeds $71 / 2=15$ ips．Recards ond ploys bock stereophonically；plays bact full trock or half trock monaurof lapes；records full trock monourolly．NARTS equalized．Response： $40.15,000 \mathrm{cps} \pm 2 \mathrm{db}(15 \mathrm{lps}) ; 50.10,000 \mathrm{cps} \pm 2 \mathrm{db}(7 \% \mathrm{ips})$ ．Wow ond flutfer，below $0.2 \%$ ． $S / N-50 \mathrm{db}$ ．Other fealures：Autamotic shut－ofl of the end of recard ond reploy： 2 inputs per channel； 600 ohm bol－ anced output；individuol goin controls，per chonnels Ferro dener．In hondsome imitation pig－stin finished partable case． For $110-130$ ：AC 80 cps ．Size overoll． $18 \% \times 17 \%$ w $9 \% \%$ ．Shpg．wh．． 54 lbs ．


## SELECTED PROFESSIONAL QUALITY TAPE RECORDERS

## TANDBERG 5-SERIES TAPE RECORDERS

Tandberg's onswer to all you need in a tape recorder. The new Tondberg. 5 for 4 -trock provides somplete versonew Tondberg.5 for 4.lrock provides complete versotility. performonse and economy. Hos complete opero-
tional facilities for 4 -track stereo ond monoural recording tional facilities for s-track slereo and monoural recording and ployback, plus ploybock of 2-trock stereo, $1 /$ trock monoural and \% lrack monoural tope. Feolures 4.track Indine precision laminar head with double mu-metal
shielding. Selective erase head erases any of the four shiolding. Selective erase head eroses any of the four trocks. Built-in dual channel lape electronics provide
complete facilities for slereo tape or disc repraduction.

Electronic swith stops tope with metollized teoder outo molically of end or beginning of reel. Tope progrom indi coter designates locotion and length of recorded materiat. Minimum of controls ossures freedom of servicing prob lems and simplified operating procedures. Includes o $5 \% \times 8^{\text {" }}$ hi-fi Goodmons speoter for occurate monitoring. Frequency response (NARTB equalization): $30 \cdot 20,000 \mathrm{cps}$ (71/2 ips), $30 \cdot 16,000 \mathrm{cps}(31 / 6$ (ps), $30 \cdot 8,000 \mathrm{cps}(1 \% \mathrm{ips})$ Flutter ond Wowi $1 \%(7 \% ~(p s), .2 \% ~(3 \% ~ i p s), ~ 25 \%$ ( $1 \%$ ips). Record and ploybock inputs: 2 microphónes 1.5 mv; 2 rodio-phono- 75 mv ; 2 for stereo disc or broodcas cathode follower oulputs, 3.5 watt speaker outpuls (nor mol listening level). Power requirements: 110.125 .145 $200.220-245 \mathrm{v}$., 60 syeles, 75 wolls.

Model 5-2. 3 speed, 4-track slereo and manaural re corder as described obove: Includes slim-line mahogony cobinel. Second recording omplifier mounted in an auxili-
 port luggage cose
Shpg.
wl
is
RK-300wx ...... 51.40 Down .............. Net 513.95 Model 5-3. Same as 5 -2, less luggage case. Some size os 5-2. Shpg. wh., 44 los RK-361WX Net 492.95 Madel 5-2-266. Same as Model 5-2, plus 2 Madel 266 Tondberg bookshelf speoker systems, for full ronge re productions. Size of Model $266: 25{ }^{\prime \prime} \mathrm{i}, 17 \%^{\prime \prime \prime} \mathrm{H}, 111^{\prime \prime}{ }^{\prime \prime} \mathrm{D}$. Totol shpg. $\mathbf{w l} ., 90$ lbs. RK-362WX
63.90

Net 638.95 Model 5. 3 speed 4-trock monourol recorder ond stere reproducer. Records 4 individual monaural trocks, plays bock $1 / 2$ trock ond $\%$ track manaural 2.track stereo and 4 -trock stereo. 2 cothode follower outputs and 2 externol speoker outpuls. Complete with microphone occessorles in mathogony cobinel. Size: $15 \times 11 \% \times 6 \% \%$ Shpg in mo

41.95 Down

Net 419.50
Model 5-1. Some os Model 5, plus o hand-luggoge case. Sire: Some os 5 . Shpo. wi., 44 lbs
RK-304WX …......25 Down
Net 442.50

## WEBCOR STEREO TAPE DECK

## - thate speeds stereo playback - internal power amplifier - monaubal record

An economical unlt contoining buitt-in slereo ployback preamps, and monaural recerd/ployback peamp with power amplifier. For slocked stereo ond dual track man oural. Tape deck feotures o heavy duly 4 pole induction motor giving less than . $4 \%$ wow and hutter of $71 / 2$ and $33 / 4$ ips. Hos numerical type lope counter, three speeds; $1 \%, 33 / 4$ and $71 / 2$ ips. record interlock and edit key for instont start and slop. Dual knob control, simple "droo in" threading of tope. Takes $3^{\prime \prime}, 5^{\prime \prime}$, and $7^{\prime \prime}$ reels of tope Rubber hubs hald tade reels firmly in ploce. Preomplifier circuitry olso hos many feotures: Uses o lotol of 7 tubet or ertro versatile oerformonce. "Aural bolonce" jock to occommodote stereo remote contral unit permits simultion acusly adlusting level of both channels for oroper bolance -FROM THE LISTENING POSITIONI
Built-in 2 woll power omplifier. Frequency response 40 15,000 cps of $71 / 2$ " amplar. secand $50.10,000$ of $31 / 40$ and normal valce range of $1 \% \%$ per secand. Signol-to.
nolse ratio 40 db . Special "Monitor" contral permits listening to recordings os they ore mode. Hos inpul for microphone of input connecting cord, phone plug for enternal speokep, and phono plugs for 1.5 volt output from duol colhode followers. Magic eye recording level indicotor. Controls include Moster Volume, Chonnel 2 Volume, Tane, Monitor, Editing Key, Speed Chonge, Hecord Inferlock. Record-Ploy, and Fasi Forward-Fasi Rewind. Size $8^{\prime \prime}$ high $\times 13^{\prime \prime}$ deep $\times 131 / 2^{\prime \prime}$ wide. For 110.120 volls, 80 cycle AC, power consumplion 80 woths. Shpe. wi., 28 lbs. RK-370WX Model ED.2950.1 .. 12.75 Down.. Net 127.45 STEREO MATE MJDEI 4905 Stereophonic Sound Syslem. A compact, partoble sound system with 6 warl ampllifer and 2 speokers. One $6^{\prime \prime}$ woofer-midrange, $4^{\prime \prime}$ tweeter and erassover network. Hos Off. On.Volume conirol, pilat light. High ond low level lnputs. Size: $81 / 2 \times 141 / 3: \times$ $71 / 2^{\prime \prime}$. Shog. wi., 9 lbs.
Model EP-4905. Above System in ebony finish.
RK-371 ……......... 5.00 Down …................. Net 27.50 Model TP-4905. Above system in brown finish.
RK-372
5.00 Down

Nel 27.50

## ROBERTS TAPE RECORDERS

Madel 90-C Stereo kecorder. New steree lope recorder feoturing such professional foxilities os colibrated VU meter, pouse lever for ease in editing, hystocesis synchre nous drive molor, 3-digit inden counter, and simple foil-free operation. Exclusive "Mutri-Rose" erose heod Simple furn of knob permits full trock erase for stereo cecording or half trock erose for monoural. The com. pletely self-contained reeorder incorporates amplifier, pre. ampliflers. microphone, and extended range speoker. Interlocting contrals prevent erasure of recorded topes Instantoneous start and spilit stasure acceleration. Can be Instantoneous starf ond split sacond acceleration. Can be operated in verlicol or horizontol posifion. Reel size 7 $40-7500$. $13 \%$ ipy 40.7500 cps ( $3 \%$ ips). Signal to noise rallo: 50 db belaw O lavel. Tope speed $7 \frac{1 / 2 "}{}$ or $3 \%$ per sec. Wow and flutter: Less thon $.18 \%$ amS. Inputs for low ond high $95-120 \times ., 60$ creles. Sizer $15 \% \times 14 \% \times 9 \%{ }^{n}$. Shpg. 95-120 V..
wl. 30 Ibs.

##  <br> 14.95 Down <br> Net 349.50

Model 90.C-4. 4 track stereo version of the Model 9O.C. Has both record and playbock. Shpg. $w 1 ., 30 \mathrm{lbs}$

Model $90.52-78$. 4 track sfereo record/ploy haod for
toreo
RK-382 5.60 Down

Net 56.00 Model A-PO1 Recording Amplifler. Provides oll recording facilities and second chonnal ploybock amplifier with eziended range speoker. Fraquency response: $\pm 2 \mathrm{db}$ $40.15,000 \mathrm{cps}$. Complete steree system with Model 90.C. Size: $15 \% \times 14 \% \times 9 \%$ ". Shpg. wi., 23 lbs. QK-383WX 14.95 Down ……............. 149.50 Model. 190-D Stereo Tope Deck. Some deck os used in Model 90.C. Size: $71 / 4 \times 14 \frac{1}{3} \times 10^{\prime \prime}$. Shpe. w1. 16 lbs. RK-384WX 18.95 Down Nei 189.50 Madel A-903 Record/Ploy Preomp-Amplillers. Similor to record/ploy amplifier used in the Roberls Recorders. Two A.903's ond one 190 D deck gives yau o complele stereo A. 903 's ond one 1900 deck gives you o complele stereo
 Seri. 11.95 Down 190 on Nel 119.50 Combination Speciol. One Model 190-D and iwo A.903, Shpg. wh: 48 lbs
40.00 Down

Nol 399.95 Model 191 Full Track Recorder. Professional full trock monaurol recorder with full trock erase hood. Other specs some os Model $90 . C$. Sixe: $15 \% \times 141 / 4 \times 9 \% "$. Shpg. $w t ., 30 \mathrm{lbs}$.
由K-386WX
32.50 Down

Nel 325.00

## NORELCO STEREO TAPE RECORDER

The Norelco "Continental' stereo lope recorder, developed and guild-crofled by Philips of the Netherlands, reflects professionol qualition of a truly modest price. 3 tope spoeds: $7 \%, 31 / 4$ and $11 / 1 \mathrm{ps}$. Duol tracks with stocked heods. Features magic eye valume indicotor, piono-key pushbutton console controls, outomatic slop of ends of reet, built-in odiustable progrom indicotor, ond intecrated, heavy magnet, wide ronge loudspeoker. Fregrated, heavy magnet, wide range toudspeoker. Frequency response: 50 to $16,000 \mathrm{cps}(71 / 3$ ips), 60 to 10,000 cps ( $3 x_{4}$ ips). 80 to 5,000 cps ( $1 \%$ ips). Wow and flutier: puts: (1) rodio/phono: (1) microphone (with mixing
focilities). Oulputs: (1) for external speaker; (2) for exiernal omplifiers with controls; (1) for externol amplifier without conirals (1) for heodphone monitoring. In. cludes a high impedance dynamic microphone. For 117 valts, 60 cycles
Model EL35 18/G53. Above unil in rugged, portable caso. Sizer $15 \%$ m $13 \times 8^{\text {m }}$. Shpg. wl., 36 lbs. RK-395WX ……..... 29.95 Down ...............Net 209.50 PL-3516. Motching companion piece consisting of o second amplifier and speaher. Size: $15 \% \times 13 \times 8^{\prime \prime}$. Shpg.
wt. 25 lbs . WK-396WX

Nel 95.00


Page 87

## STEREOPHONIC \& MONOPHONIC TAPE COMPONENTS <br> VIKING SERIES "85" TAPE DECKS

Finest Viking deck designed for the home music system Two motors (seporate motor for folkeup, fost forword, and foofoge counter drive). Frant ponel speed chonge. $3 \%$ and $71 / \mathrm{ips}$. Quol rotory tope motion controls; forword, stop ond edit funstions on inner knob; outer ring controls, fost forward ond rewind. Mechonical interlack insures ogoinst spilling or breoking tope. Equipped with long weoring, lominoted heods, topeliffers, non-resonont pressure pods, and automatic tape run-out switch. Univerio head mounting brocket permits chonging or odding to heod complement. Head brockel shift permifs use o quorter-frock heods for ploying both holf-track and quarter trock tapes. Flutter-filter copston drive ochieven less thon $0.2 \%$ flutter of 7 h ips. Frequency Respanse $\pm$ 3 db .30 to $14,000 \mathrm{cps}$. Signol-fo-noise better than 55 db. Distortion less thon $1 \%$. Moy be operoted vertically or harizontally. Finished in onodized oluminum. Supplied with spare reel. temporory mounting brackets ond large molded reel reloiner. Dimonsions: $91 / 2 \times 13^{\prime \prime}$; $5^{\prime \prime}$ depth. Shpg. Wh. $12 \frac{1}{2} \mathrm{lbs}$. 110 Volts, 60 crcles.
MODEL $85 R$-Records, eroses, ond pleys bock $1 / 3$ trock

## monourof. <br> 歕-225 WX …...... 11.90 Down ............. Net 119.00

 MODEL 85RO-Some os 85 R plus $1 / 4$ prock stereo ploy bock.晾-226WX 14.7........ 145 Down .................Nel 147.50 MODEL $85 E 5$-Records, eroses ond plow back $1 / 3$ track KX-227WX 14.70 Down Net 147.00 MODEL $85 E S O$-Same os B5ES, plus $\%$ trock stereo ploy. bock facilities. 17.20 Down Ne! 17200
RK-228WX MODEE RP62C-Record/Ploybock Preomp-Provides top recording ond ploybock performonce when used with Viking "85" Series decks. Use one RP62C with monourol madels 852 ond $85 R \mathrm{C}$. Use 1 wo RP62C's with stereo mod els 85ES ond 85ESQ. Bior oscillotors moy be synchronized for stereo recording. Erose current ond bios ore odiustoble. permitling peaking of performance when used with " $75^{\prime \prime}$ Series decks os well as "85". NAB type equalizotion fixed in recording, varioble in ploybock. Bios frequeney 68 kc . Frequency response 30 10 14,000 cycles $\pm 3 \mathrm{db}$. Signal-to-noise rotio 55 db . Distortion less thon $1 \%$ of in. dicated normol recording level. Anodized oluminum panel motches " 85 " decth. Dimensions: $121 /{ }^{\prime \prime} \times 21 / 4{ }^{" 1} \times 6 \frac{1}{6}$ " 110 Volts 5060 cycles AC. Shpg. wt., 7ys Ibs.
EK-229 ............. 7.75 Down ..................... NET 77.50
MODEL RP62VU Record/Playbock Preomp. - Some as RP62C, but with $41 / 2^{\prime \prime}$ VU meter record ond output level indicator. Supplied with stondord 19 " reloy reck mount. ing ponel only. 600 ohms oudio output impedance. Adjustoble erase and bias controls. Matches heads on Viking " 85 " Series ond " 95 " Series monsports.
RK-230WX 119.00


Shaw with Preamp Installed


Page 88 FULL REFUND OF EASY PAY CARRYING CHARGES IF PAYMENTS COMPLETED WITHIN 60 DAYS

## LAFAYETTE PORTABLE STEREO \& MONAURAL PHONOGRAPHS

## MANUAL PHONOGRAPHS

## 3 Speed Monual

(Fic A) Pleys up to $12 \pi$ monoural records af $33-1 / 3$, 4s or 78 RPm . A singto lever retects any speed, The lightweight pictup arm is equipped with o single oll-purpose needle for oll records. Has volume control with on-of switch. Fine quolity Alnico 5 Pm speoter. Altractive teatheretto covered cose. For 117 volls, 60 cycles. Size $12^{\prime \prime} \times 101 / 2^{\circ \prime}$ - $51 / 3^{\prime \prime}$. Shps. wh., 9 lbs. AH-129W

Nel 13.95

## 4 Speed Manval

(P16. D) With this portoble phonograph you con ploy ony record up to $12^{\circ}$ size of 33-1/3, 45 er 78 rpm , or at the new "Tolhing Book" speed of $16-2 / 3 \mathrm{rpm}$. A single lever setects ony speed. The lightweight pistup orm is equipped with ofurnover cort. ridge with deal sopphire styli. Has both tone control ond volume control with on of switch. Hos iack for odding oxtension speoter. Fine quolity Alnice 5 om speoker. Attroc tive 2-tone leatherette covered cow. For 117 volts. $60 \mathrm{cps} A C$. Dimensions $141 / 2^{\prime \prime}$, MH-130w

Nel 18.25


## LAFAYETTE STEREO PHONOGRAPH

\author{

- Compatible-Plays Both Siereo and Monaural <br> - 2 Defachable Speakers
}


New, low-cost manual pertoble stereophonic phanogroph enobles onyone to enioy the thrilling sound from new stereo records. Two seporote speoker systems can be de toched from the moin unif. Two 8 ff . cables are provided to connect speokers to the biult-in omplifiers. Separote volume controls for eoch shonnel ollow the user to odjus Whonnel bolonce oscording to his listening environment Wide-ronge speakers ossure fine sound reproduction. Hos speeds $-16-213,33.1 / 3$, 45 and 78 RPM. Lightwoight tone or $m$ is fifted with ervisol furnover cortridge. Tubes: 2 -soCs, 1-12ax7 plus rectifier. Hos eory-grip hondle on strikingly ottroctive two tone bronze bork and ivory cose. Size $16^{\prime \prime}$ ม $2^{2} \times 11_{2}$ ", Shog. wi., 12 ths
WH. 132W . 5.00 Down ............ 29.95

## LAFAYETTE AUTOMATIC STEREO PHONOGRAPH

- Compatible-Plays Both Stereo and Monaural Records
- Defochoble Lid With 2nd Speaker


New. ottroctively styled outomatic stereophonic phono. groph feoturing the lotest Monoreh 4 -sped outomoth intermiz record changer. Complete with stereo crystal furnover cartridge with dual wophire styif. Pays both slereo and monoural records. Among mony leofures ore automatie record intermix mechonism, eutomatie motor shut-of of the and of lost record, outomatic arm return, free. Acoling motorboard eliminoting acoustic feedback. Coreful de sign ossures long life and freedom from trauble. Tates all rocord sizes, ond plays ofl 4 speeds: $16-2$ "3, 33-1,3, is and 78 RPM. Controls include seporate volume controls for eoch chonnel ond dual chonnel tone sontrot. Builr-in Alnico 5 PM speother provide clean, balanced sound. Second AI nico S PM speaker is housed in the removoble phonogroph cover. 8 H . coble supplied, permits plasement of second speoker for opitimum stereo effect. Two tone bronie bork and bvory sobinat. Tuber 2 -soCs, 1-12Ax7 ond rectifier Size $161 / 2^{\prime \prime}=131 / z^{\prime \prime}=83 / 4^{\prime \prime}$. Shpo. wh. 25 lbs PH. 133 WX 5.00 Down $\qquad$
Nel 49.50

## LAFAYETTE DELUXE AUTOMATIC STEREO PHONOGRAPH

- Plays Both Stereo and Monaural Records
- 4 Speed Collaro Changer



- GE Reluctonce Triple Play Contidge With 2 Sapphire - For All Monoural Records
- Dual Speakers: $8^{\prime \prime}$ Wide Range and 4" Tweeter
The fomous lofoyetle "Stor" now incorporates on extended ronge speaker syilem with 50 to $15,000 \mathrm{cDs}$ cesponie. The 4-speed phonogroph ploys all record sizes up to $12^{\prime \prime}$ and hos the fomous GE voriable reluctonce "triple ploy" cartridge with two sopphire tipped needles. With retroctobie spindle for 45 rpm records. Separote bass and treble tone controls, and volume control. The 2 speok. ers produre o real feeling of "presence". Size $181 /$ $123 / 4 \times 71 / 2 \cdots$. Covered in your choire of chorcool borh or luggoge ton featherelle. For 117 volts, do CDS AC. Shpe. Wh. 13 los
3.00 Down Net 37.50

LAFAYETTE AUTOMATIC MONAURAL PORTABLE PHONOGRAPH


## - Plays 4 Standard Record Speeds

- Complefe With Crysiol Turnover Cortridge New aftractively styled outomotic monoural porlable phonogroph featuring 4 speed, $10.2: 3,13-1 / 3,45,78$ LPM, Consists of the lolest famous Brifish-made Monorch outomatic recort chonget. Uses heovy-duty 4 -pole inducouromatic recors chonget. Unes heovy-dufy t-pole induc Aun type molor for consfant speed and minimum wows. Automoticolly ploys oll speeds, and hohes oll record sizes - 10 . 12 intermixed in any order. Arm outomoticol Iy relurns to the rest position and motor shuts off affer lasi record. lightweight pichup orm hos high oulpul crysiol Surnover coltridge with sapphire sivli. Controls: Ione, Off. ON Volume. Duroble and oltractive cobinet with choice of 2 leatherette iwo-tone coverings: of blue fibre and gold. or b) chorcoal fitre and ivory. For $110-125$ volis, 60 cy Cles, A.C. Size: $151 / 2^{\prime \prime} \times 121 / 3^{n}{ }^{n} 7^{\prime \prime}$. Shpg. wi.. 18 lbs. M-i3iw S.00 Down Shog. Wi... Net 35.75

Page 89

## LAFAYETTE RECORDING TAPES AND ACCESSORIES



## ALL LAFAYETTE TAPES SOLD ON MONEY-BACK GUARANTEE gUaRanteen first quality splice-free <br> You Be The Judge! NEW! MYLAR BASE RECORDING TAPE

Lofoyette's huge purchosing power moles it pasible to provide you with firat-quality OWn lobels. WE GUARANTEE ABSOLUTE SATISFACTION OR YOUR MONEY BACX. These splice free mylor bose recording ropes ore quality manufoctured to osiure unio entremely duroble and breok restistant and ate capoble of withstanding iemperature and humidity changes. The wide frequency response characteristics combined with low noise level and long playing time opent hew horizons of recording pessibilition for the high fidetity enthusiavts as well of profersional sound engineers. Av. Shpg. wl.. 12 os.
ET-12 1800 ft . on 1 mil Mylor beie. $7^{\prime \prime}$ reel diometer. lols of 5 , Eo. 2.25 Singly. Eo.

| RT-13 2400 fl . on Yi mil Mytar baie. $7^{\prime \prime}$ |
| :--- | :--- |
| lots of 5 , Eo. diameter |
| .39 Singly, Eo. |

## ACETATE BASE RECORDING TAPE

These popular high quality lapes ore cooted uniformlp with red oxide on plostic base $40.15,000$ oupsul ond uniform frequency response covering the entire oudio spectrum, $40.15,000$ cps, completaly spife free. Another Lolavelle outstanding volue for oll hiff recordists, bocked up by our Moner bock Guorontee. Using 71/h eps dual trach. 1200 f , reel provides 1 hr . of recording time white 1800 fr . reel providen 1 h hr . of recording time. Avg. Shpg. w1., 14 oz
Er-10 1200 m . on 1 Y mil ocetate bose, $7^{\prime \prime \prime}$ reel.
lots of 5 , Eo.
Lots of 5, Eo. 1.49 Singly, Eo

1.98

## NEW\& LAFAYETTE TENSILIZED MYLAR RECORDING TAPE

Strono and durable because It has been prestreiched. Shipping weight il ib
RT-16. 2400 on tensilized mytor base.
tots of 5. Ea .............. 4.4s Singly, Ea

## NEW: LafayetteBULK TAPE ERASER AND DEMAGNETIZER

## PROFESSIONAL MODEL

## - Completely Erases Tape <br> - Two Erasing Colls <br> - Erases up to $1^{\text {~ Tapes }}$ <br> - Erases $1 / a^{n}$ Tapes

 in One Operation
## -No Reversing <br> - For $3^{\prime \prime}, 5^{\prime \prime}, 7^{\prime \prime}$

 or $10 \frac{1}{2 \prime \prime}$ Reels ML-120-Regularly 49.95


## LAFAYETTE TAPE HEAD DEMAGNETIZER

A bulk tape demagnetizer that eroses existing recarded signols and noise fram magnotic tapes quickly and efficiently. Also capoble of demagnetizing metal ports and work laols. Ideal for the recording enthusiost desiring cleon, noise-free topes. Simply rotote reel of lope several lurns over unit, furn over ond repeot once. Hos two spindle posi-
fions: Inner position for fope reel siges up to $7^{\prime \prime}$ in diameter. ond the outer ane for $101 / 3^{\circ}$ Inner position for fope reel sizes up to $7^{\prime \prime}$ in diameter, ond the outer one for $10 \mathrm{y} / \mathrm{z}^{2}$ reels.. Push button energizes the coil, ond a pilat light installed on top of the unit indicoles unit in operation. Non-mognelic bokelite okple for rope ceel rest. One powerful coil is used for fective erosure of all quorter-inch rapes. Current cansump-tion-5 omps. Heary duly. rugged gouge melal case. Altractive finish. For 105-125 volis. 80 cycles. Size $71 / 3^{\prime \prime} \times 43 / 4^{\prime \prime} \times 31 / 3^{\prime \prime}$. Shpg. $\mathbf{m}$., 9 ibs. ML-176

## STANDARD MODEL

- Reduces Noise Level
- Takes Roels Up To $101 / 2$


### 12.50

Lalavelte Tope Heod Demagnelizar uses remavoble pole pieces. Three complete sets ore furnished: stroight. 45 . and 90 (right ongie), permilting quick and easy use with ony tape head. For from being o luxury, o lape head demagnetizer is necessary for best lope recorder perform. ance. Although unmognelized when now, lope heods gradvally become magnetized by sharo switching pulses accurring while switching the recarder trom ploy to record or
move this permanent magnetism from the heod, thus re. ducing the noise tevel. Periodic head demognetization is required for oll tape recorders to insure aptimum signal10 noise ratio. Now lafaratt enables anyone whith even the most modest budget to perform this necessory demagnetization with o minimum of effort. For 110 volts 60 creles. Shog. WI., 1 lb . PK-23B-Tope Heod Demognelizer
3.95


TYPE 111 STANDARD TAPE - Plostic lype coaled with red oxide. Populorly used for high fidelity all puroose recordings. On plostic reets except ' $10 y$,"NARtB reel. \# 14" NARTB reel. \$.NARTB hub. Av. shpg. wi., B or. eo Net Eorh

| Type No. | $\begin{aligned} & \text { Recl } \\ & \text { Slee } \end{aligned}$ | length Feet | List Price | 11011 | More |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1114.15 | $3^{\prime \prime}$ | 150 | 70 | 46 | 41 |
| 1114.3 | $4{ }^{\prime \prime}$ | 300 | 1.35 | . 88 | 78 |
| IIIA. 0 | 5" | 600 | 2.35 | 1.47 | 1.31 |
| 1114.12 | 7" | 1200 | 3.50 | 2.29 | 2.05 |
| 1114.24 H | Mub | 2400 | 8.50 | 5.56 | 4.99 |
| 111A-24R* | 101/2" | 2400 | 10.90 | 7.12 | 6.41 |
| 1114.48 H . | Mub | 4800 | 17.00 | 11.10 | 2 |
| 1114.48 R | $1{ }^{*}$ | 4800 | 22. | 14.44 | 2.9 |

TYPE 190 IXTRA.PLAY TAPE - $50 \%$ more ploying fime on slondord sire reels. I mil ocepote bose. All on plostic


TYPE 120 HIGH-OUTPUT TAPE - Acetote bose record. ing lopes of $11 / 3$ mil thickness. Provides 81012 db higher output thon stondord iypes. On $7^{\prime \prime}$ plostic reel except Net lach


|  |  |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| 120.6 | $5^{\prime \prime}$ | $800^{\prime}$ | 3.50 | 2.29 | 2.06 |
| 120.12 | 7 | $1200^{\circ}$ | 5.50 | 3.60 | 2.23 |
| $120.24 H+$ | $H u b$ | $2400^{\prime}$ | 10.00 | 6.54 | 5.88 |
| $120.24 R{ }^{\circ}$ | $101 /{ }^{\prime \prime}$ | $2400^{\circ}$ | 12.85 | 8.40 | 7.56 |

## AUDIO DEVICES



EMPTY C-SLOT REEL
Emply reel with C-slot Ior eosy, fost movement tope threoding. Grips tope lighiy on storling ond outomorsoly releoses it on rewinding. Av. Shpg. wi.. 5 or

5TANDARD REELS All plostic reels encept * metol reel ond $\uparrow$ fibergloss (E|A| reet

| Type No. | Size | List | Met Eosh |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Single | Lats of 10 |
| 3PB | 3" | 25 | 17 | 15 |
| $4 P 8$ | 4 | 45 | 29 | 20 |
| SPE | 5 | .00 | . 39 | 35 |
| 7 PB | 7 | . 75 | . 49 | 44 |
| 10RE* | 10\%" | 4.00 | 2.62 | 2.35 |
| 10Fst | 101/3* | 4.00 | 2.62 | 2.35 |

COLORED PLASTIC REELS All Dlostic reels, ovoiloble in 4 solors: red, yellow, green and blue. Each reel in. Av. Shipg. wt, 4 of TYPE SpB 5 inch reel

TYPE TPS 7 inch reel
Net Eo. 398
In lors of 10 . Eo. 35 s
in lots of 10 EO. 49 C
 audiotape FEATURING NEW C-SLOT THREADING

STANDARD TAPE - $11 / 2 \mathrm{mil}$ cellulose ocelote bose. Low cost with no compromise in quolity. All on plostic reets excepl * NARTB reel. Ay, shog. wi., 8 or

| Type No. | Reel | Length | List Price | Net Each |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1.9 | 10 or More |
| 151 | $3{ }^{\prime \prime}$ | 150 ' | 70 | . 46 | .41 |
| 351 | 4" | $300^{\prime}$ | 1.35 | . 88 | . 79 |
| 651 | 5" | $800^{\prime}$ | 2.25 | 1.47 | 1.32 |
| 1251 | 7" | 1200' | 3.50 | 2.29 | 2.06 |
| 25510* | $10 \%$ " | 2500. | 10.90 | 7.12 | 6.41 |
| "LONGER-RECORDING" TAPE - 1 mll ocelote bore $50 \%$ more recording lime per reel. All on plostle reel excepl - NARTB reel. Av. shog. wi., 8 az. |  |  |  |  |  |
|  |  |  |  | Net Eosh |  |
| Type No. | Reel | Length | $\begin{aligned} & \text { Hist } \\ & \text { Price } \end{aligned}$ | 1.9 | 10 or More |
| 941 | 5 " | $900^{\prime}$ | 3.50 | 2.29 | 2.06 |
| 1841 | 7" | $1800{ }^{\prime}$ | 5.50 | 3.60 | 3.23 |
| 364 18* | 10ヶ" | $3600^{\prime}$ | 12.85 | 4.40 | 7.56 |

"LONGER-RECORDING" TAPE - 1 mil, strong and duroble mylor bose. $50 \%$ more recording lime per reel. All on plostis reels except "NARTB reels $\uparrow$ plostic reel in All on plostic reels excedt Nailer corton. Shpg. wh.. 12 oz .

| Type No. |  | Reel | Length | $\begin{aligned} & \text { Llst } \\ & \text { Prise } \end{aligned}$ | 1.9 | 10 or More |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2611 |  | 3" | $225^{\prime}$ | 1.00 | . 66 | 59 |
| 961 |  | 5" | $900{ }^{\prime}$ | 3.75 | 2.45 | 2.20 |
| 1861 |  | 7" | $1800^{\prime \prime}$ | 6.50 | 4.24 | 3.82 |
| 36018 * |  | 101/1 | $3600^{\circ}$ | 15.00 | 9.80 | 8.82 |
| COIORED BASE TAPE - $11 / 3 \mathrm{mil}$ ocetote bose. Colored for eosy Identificotion of recorded possoges. On plostic reels. Shpg. wi., 8 ot. |  |  |  |  |  |  |
| $\begin{aligned} & \text { Type } \\ & \text { No. } \end{aligned}$ | Color | Reel | length | Price | 1.9 | loch 10 or More |
| 6516 | Green | 5" | $600^{\prime}$ | 2.25 | 1.47 | 1.32 |
| 12516 | Green | 7"' | $1200^{\prime}$ | 3.50 | 2.29 | 2.06 |
| 6518 | Blive | 5" | $600^{\circ}$ | 2.25 | 1.47 | 1.32 |
| 12518 | Blue | $7{ }^{\text {P' }}$ | $1200^{\circ}$ | 3.50 | 2.29 | 2.06 |

## SCOTCH

TYPE 200 DOUBEE PLAY - Tensilized Mytor 0.75 mil ropes. Provides iwlie os much ploying time os the 1.5 mil standard rope. Stronger and more duroble than uruol long-ploy lopes. On 7" plastic reel except "NARTB reel. Av. shpo. wf., 12 ot.

| Type No. | Reel | Length | Itst Price | 1-11 | 12 or More |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 200. |  |  |  |  |  |




ACETATE-BASE TAPES - New ocetole bose mognetic recording lapes on "Lood-Eosy" reels for fost tope threoding. Full frequency ronge response, high output and low noise. 1.5 mil thiskness topes $f 0$ professionol grode re sording purpose. I mil topes provide long ploying lime Av. shpg. wt., 10 or.

| Type | 保el | Length | (mils) | Price | 1.11 | 12 up |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 26261 | $3^{\prime \prime}$ | $150{ }^{\prime}$ | 1.5 | 0.85 | . 56 | . 50 |
| $250<1$ | $5^{\prime \prime}$ | $900^{\prime}$ | 1.0 | 3.50 | 2.29 | 2.60 |
| 284 Cl | 5" | $800^{\prime}$ | 1.5 | 2.25 | 1.47 | 1.32 |
| $285 C 1$ | 7" | $1800^{\circ}$ | 1.0 | 5.50 | 3.00 | 3.23 |
| 256C1 | 7" | $1200^{\prime}$ | 1.5 | 3.50 | 2.29 | 2.06 |

MYIAR BASE TAPES - New mylor bose topes, on "Lood-Eosy" reels for lost tope threoding. Full frequency ronge respanse, low noise, high strength and extrome durobility. 1.5 mil thichness topes for professional grode recordings; 1 mil topes provide tong ploying fime; 0.75 mil topes ore charocterized by high tensit sirengin ond
$100 \%$ more ploying lime thon 1.5 mil topes; 0.5 mil lopes for entro long•ploy. Av. shpg. wi., 10 oz

|  |  |  |  | Aso |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | Peel | Length | (Mils) | Price | 1.11 | 12 up |
| 263C1 | $3{ }^{\prime \prime}$ | 225' | 1.0 | 1.05 | . 69 | . 61 |
| 252 Cl | 5" | 1200' | 0.5 | 5.00 | 3.26 | 2.97 |
| 253C1 | 5" | $900{ }^{\circ}$ | 1.0 | 3.75 | 2.45 | 2.20 |
| 254 Cl | 5" | $600^{\prime}$ | 1.5 | 4.25 | 2.77 | 2.51 |
| 260C1* | 5" | $1200^{\circ}$ | 0.75 | 0.50 | 4.26 | 3.82 |
| 257C1 | $7 "$ | $2400^{\prime}$ | 0.5 | 9.25 | 6.05 | 5.39 |
| 258C1 | $7 \times$ | $1800^{\circ}$ | 1.0 | 0.50 | 4.06 | 3.82 |
| 259C1 | 7" | $1200^{\prime}$ | 1.5 | 7.00 | 4.58 | 4.12 |
| $26161 *$ | 7" | 2400' | 0.75 | 11.95 | 7.82 | 7.04 |

Tensilized Mylor lopes.

| $20.48 R *$ | $101^{\prime \prime} \mathrm{m}$ | $2400^{\prime}$ | 8.75 | 5.71 | 5.15 |
| :--- | ---: | ---: | ---: | ---: | ---: |
| $2000^{\prime}$ | 20.50 | 13.40 | 12.05 |  |  |

LEADER AND TIMING TAPES AUDIO DEVICES SELFIIMING LEADER TAPE (A) strong, white "Mylor" tope with spored morkings lor occurote timing of leader intervals. $100 \mathrm{~K} .4 \%$ wide AUDIO NO. 31 Lots of 10 , EO., 32s-Singly, Eo, 36r scotch leader timer tape Mos 1 second intet ool morkings for $3 \%, 7 \frac{1}{4}$, and 15 " per second speeds SCOTCH 43 PI. 5 lops of 12, EO. 51 s -Singly, Ea. 57 AUDIO DEVICES MAILING BOXES

(K2)
(K3)

(K3)

## SCOTCH SPLICING TAPE

Pressure-sensitive tope mode enpeciolly for splicing and editing mognetic lope Av. Shpg. Wt.0, 3 or.
SCOTCH $411 / 2,1 / 2 \times 50^{\circ}$ On dispenser.
 scotch 41.7/32 : $7 / 32^{\prime \prime} \times 60^{\prime \prime}$. Less dispenser Lots of 12, Eo. 406 Singly, Eo. S1. "TAPE EDITING AND SPLICING" (KI) A book covering every obpect of splicing rechniave ond editing prozedure. For the prote EK-21 Portooid in U.SA. Net 23c

## AUDIO DEVICES HEAD

 ALIGNING TAPE (K2)Pre-recorded of $2,000,10,000$ ond $15,000 \mathrm{cps}(15 " / \mathrm{sec})$ for precise heod ajognment. Bose moteriol $1 /$ mil Mylor. With instructions. Shpg. wt., 4 or
AUDIO NO. 200

NEW TELEPHONE PICKUP COIL


This telephane pictrup coil is designed ta feed inta the microphone inpul of either a lope recorder or ony high goin amplifier. The pisk up can be easily attochod to the telephone by the use of a rubber suction type at tochment. The coil is electrestatically shielded to minimize hum pictrup. When properly positioned an telephane handsel, the oulpul of this device is more thon odequate for a fully modulated tape recarding. Camplete with 5' shielded cable. Shpg. wf., 6 ats.
MS-693
Net 1.89

## TELEPHONE PICKUP

FOR RECORDING TELEPHONE CONVERSATIONS
Induction telephone pickup. Telo. phom conversations con now be picked up with no tapping of wires ar speciat telephone circuits. Simply place the phome base, sither cradie or upright rype, on the pickup plotform and cennect the loods to the high im. pedance input of any medlum gain audio amplifier, or directly to ony tope, disc or wire recorder. Shpg. wh. 8 ozs. MS-16....................... 1.95

(A) COUSINO TAPE SPLICER KIT

Convenient olastic solicer with odhesive bocking for mounting on your recorder or workbench. Holds rape with. out clamps. Kit consists of solicer, blade and 24 hondy precul spliking rape tabs. Shog. wr., 6 oz
ms-376 - Tope Splicer Kit
Net 1.20
P日E-CUT TAPE TAE REFILS-For above, 24 pre-cul splicing tope tabs. Shpg. wf. 2 oz .
ms-377-Pre-Cut Tope Tabs
Net 20
(B) EDITALL TAPE EDITING KIT

- precision built cutting block
- simple to operate
- how-to-do-it instruction book

This tit hos all the equipment required to erecute a com plete editing jab on a professional bosis. The cutting block supplied is simple to oporate but is precise in ifs opplica. fian: made of durofuminum precisely machined and polished (makes straight of diagonal cut). All occessories such as grease pencli, blades, splicing tope ( 66 ft . rall of \%is2") supplied. Comes with instruction boollet-in o smart metal cose. Shpg. wf., I lb MS-474 - EDITALL KIT

Net 8.82

## (c) TAPE CLIPS

Keeps topes from unwinding. Warks on both full and partial reels. Shpg. wh., 12 oz MS-476-Pigg. of 12 ................................................... 24
(D)SPEED-EEZ TAPE THREADER

Mrlor strios $25^{\circ \prime}$ long with odhesive tip to ottoch to tope and campressible foam catch on ather end for insertion into take 40 reet. Quich, eosy, wastes no tope. Wt.. 10 oz MS-477 - Pkg. of 10
Page 92
YOUR ORDER WILL RECEIVE PROMPT, EFFICIENT SERVICE AT LAFAYETTE

LAFAYETTE ECONOMY MODEL HEAD DEMAGNETIZER

cofayette offers this economical heod demognetizer to heet the meed for or frue heods must be tempancized oscosionally to remove mope hetism occumulated in the heods. Otherwise high fre netism occumulated in the heods. Otherwise, high fre Quency response on the fope will deleriopate in lime This new lafayette heod demognetizer hos very strong field and has o single probe which is mode to fit very allows onto recording heods. Its thin crass sectional size stereo, or 4 chonnel. Drows 4 omps Completo wit plug, and cord Shpg. Drows 4 omps. Completo with MS.604


## 8 <br> 18 <br> REEL LOCKS 59 <br> Set of Two

Holds tope recorster reel in ploce by locking spindle 10 reet. Especiolly usodl it recorder is in verticol pasition,
Will not interfere with normol operotion of reels. Eosily removoble. Shpg. wi., 6 or. MS.564 Set of iwo

## TAPE CLEANER

1.49

## 

Simple, unique recorder head cleoner. Tope is impregnote. lar roll of tope. Entire iob done in 2 minutes Con like regu lar roll of tape. Entire iob done in 2 minutes. Con be re used mony times. $100^{\circ}$ roll on plostic reel. Shipg. Wt., 8 oz PK-283


## SHURE RECORDING HEADS

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| Holf track (upper track) replocement heads for tope record. ers. All ore high impedance encept - is low. Type TRS8 equipped with Cinch plug and 14" insulated leads. Averoge shpe. wt., $1 / 2 \mathrm{lb}$. |  |  |  |
| SHURE NO. | FUNCTIONS | REPLACEMENT FOR | $\begin{aligned} & \text { NET } \\ & \text { EACH } \end{aligned}$ |
| 815 * | RECORD. playback ERASE | BELI RT. 65 REVERE TIOC, TR200 SHURE TRS. TRSH | 8.82 |
| 815H | RECORO. PLAYBACK ERASE | REVERE T500, TR600 TAPEMASTER TH21. PII21, PTI 25 | 8.8 |
| 816 | RECORD. playback | AMPRO 730.731 MASCO R.3, M. 60 SHURE TRGC | 7.0 |
| $817 *$ | RECORO. playback | RCA SRT. 403. 402, 401 WILCOX GAY 3AII SHURE TRIGA | 5.29 |
| tris | RECORD. PLAYBACK ERASE | REVERE T. 700 , TR800, TR. 20 SHURE TRSD | 10.00 |
| TR 16 | RECORDplayback | $\begin{aligned} & \text { WILCOX GAY } 3 \text { AIO. } \\ & 2 \mathrm{~A} \cdot 10 \mathrm{~B} \end{aligned}$ | 5.29 |
| TR5Z-2 | RECORD. playback ERASE | RCA TTRCI, 7TR2. 7TR3, 8TR2, 8TR3 SHURE TRSZ. 1 | 10.88 |

REVERE-WOLLENSAK
STEREO CONVERSION KIT
Conversion to sfereo for Wollensok T1500 and Revere
madels 710 . T11, TR20 7.700 T.7000 TR800 TR8000 T-900, TR1000, T1 100 and TR-1200. Includes stereo heod, insulorors. coble and complete instructions. Shpg. wt.. ML- 158
5.00 Oawn

Net 33.81
(A)

STEREO CONVERSION KIT Mounts on the noupo of almost all existing tope cecorders. Uses high aualit TLD.S Stereo head ith internal mognetir shielding low crosstath Mu.metal shield magnetic shielding for of hum. Ploys mu.metal shield gives excellent rejection of hum. Ploys monoural half-frock fopes olso. Quick cosy installation using ordinory tools. Alter installation, one chonnel ploys through present recorder ond secand channel plays through any other amplifler or preamp. Con te used for monoural or sterea recordings with opprapriote omplifier. Shpg. wi., $1^{1 / 2} \mathrm{Ib}$
ML-159. SK. 100 ............ 5.00 Down ............ Nei 23.50
Y/ IRACK 4-CHANNEI STEREO ADAPTER KIT (A) Similar to SK-100. but for use with new $1 /$ trock 2
chonnel stereo topes. Equolized response. $30 \cdot 12,000 \mathrm{cps}$ 3 db of $3 \%$ ips. Output, 1 mv of 1 kc . Con olso be used mith track stereo topes. Shpg. wt.. $11 / 2$ lbs.
ML-100. SK. 50
5.00 Down 26.00 Net 26.00 BIAS-ERASE OSCILGATOR TRANSFORMER (B) FUF nishes 65 ke bios current to the recording head and erase current to either high or low impedonce erose heod. Com. plete with insiructions and fube oscillotor circuit. Shpg. ML-161. TOOE $\qquad$

- signols of 50

Nel 4.50 AIIGNMENT TAPE $\qquad$ $3^{\prime \prime \prime}$ re el. $71 / \mathrm{s}$ ips speed. Provides sime wove signols of 50 to $10,000 \mathrm{cDs}$ tone control odjusiment, and fiequency pesponse check Shpg. wi., 4 ot. ML-162. AT-100

## ROBINS-MICHIGAN MAGNETICS EXACT REPLACEMENT TAPE RECORDER HEADS

Preclsion recording heads to reploce old worn heads ond convert to stereo. Exoct replocements, All stereo heods $1 / 3$ trock. Avg. shpg. wi., 10 ars



FIG 1

MAKE
$\qquad$ CAPITOL

CRESCENT
PENTRON
RCA.VICTOR
SILVERTONE
IELECTRO

VIKING
WEASTER
wIICOX.GAY


FIG 5 | STEREO |  |
| :--- | :--- |
| STOCKNO FIG NET |  | ML. 166 ML- 167 ML-167 ML. 169 ML- 166

ML- 167
MI
ML-166
ML- 166
ML. 170
ML- 160
ML. 166


FIG 7
$\qquad$
N

Page 93

RECORDING AMPLIFSER (C) Ideal for use with ony cording HOS NAPPB high level ond low level inguts, Sensitivity for full cording level: 1 mv (low levell. Sensifivity fop full re vides 65 se vides 65 kic bios current, odiustoble to match ony heod. ehms) oulput for eimer high impedonce 10000 to 10.000 ohms) or low impedonce 20 io 30 ahms) eros hecd. Full frequency response. $\mathrm{S} / \mathrm{N}$ rotio, 55 db . Also synchronizo. tion for stereo recording purpose using 2 RA. 100 's. For $\$ 10-120 \mathrm{v}, 60 \mathrm{cps} \mathrm{AC}$. Size, $2 \%{ }^{\prime \prime} \mathrm{h}=5 \%{ }^{\circ \prime \prime} \mathrm{d} \times 8^{\prime \prime} \mathrm{w}$ Shipg. wl., 8 lbs.

### 5.00 Down Net 49.50

PLAYBACK AMPLIFIER (D) Fop pape heod ploybock with a rape deck or for oddition 10 a converled recorder to provide ploybock omplification for the second chonnel. 2 -reauired for a stereo deck. A complete 3 -wolt amplifier with o cothode follower preomp output for driving o larger amplifier. Low level input with $m v$. sensifivity; high level input with 0.2 volls sensitivity. Outputs 4, 8,16 ohm speoker fops; volf cothode followes oufput. Less than $2 \%$ hormanic distortion, response $30.15,000 \mathrm{cps} \neq$ 2 db . continuously vorioble, equalization including NARTB and RIAA stondords, 50 db $\$ / \mathrm{N}$ ratio. For 110.120 volts 60 cps AC. Size $2 \%$ h $\times 5 \%$ d $\times 8 \ldots$ Shog $w h$ 8 lbs.
ML-164. PL. 100 ............ 5.00 Dawn ............ Net 39.50
PATCM CORD ANO JACK (E) For connecting one chonnel of the Stereo.Kit to the oudio system of the converted recorder. With inseruction ML-165. PC- 100
he ads to reploce old

##  <br> MADE FOR LAFAYETTE BY THE FOREMOST AMERICAN MANUFACTURERS




## KEY TO POINT CODES <br> HOW TO ORDER

The symbols in the column headed "PT SIZE" ore explained in the toble below.
LP = SIMGLE 1 MHL MICROCEOOVE FOL $331 / 3$ AMD 45 mim
AG $=$ SIMGAE 2 MIL ALL GROOVE FOR ALL SPEDS ST = SINGLE 3 MIL STANOATO FOR 78 RPM COME = OUAL 1 MIL DIAMOWO AND 3 MIL SAPPHIEE Identify your needie by cartridge number and Illustration and order by stack no. Mote thal all needies listed here ore for monaural cartridges.

## ALL DIAMOND STYLI

 ARE NOT ALIKEOnly Lafagetse's Superior Diamond Styliare
MADE FINOM WHOLE DIAMOMDS PAECISION
GROUMD AMO POLISMED VEDICAIIY AMO
 EDGEWISE GRAIN ORIENTED - SHADOWGRAPMED

Each Leferetto's dieaned stives in mode from individvol diemend, moperly or montod ind gromed to diove olelerenes; shedowgrepl resiod te give you less weer posiod te give you loss meore Pert pley ent leas nervise

## FULL 1 YEAR GUARANTEE

## ANY DIAMOND or

## DIAMOND-SAPPHIRE

 MONAURAL NEEDLE ON THIS PAGE 2.59| $\begin{gathered} \text { s roce } \\ \mathbf{w o .} \\ \hline \end{gathered}$ | SIZE PT. | F16. | CARTIIOGE | REPLACES JEHSEM MO. |
| :---: | :---: | :---: | :---: | :---: |
|  |  | FOR AOMIRAL CAMTRIOGES |  |  |
| P-18 | LP | 1 | 409411, 40ta300, rease. 1 | JPS.30LP0 |
| P-11 | LP | 1 | coals-2 | E.\%0LPD |
| P-12 | ${ }^{46}$ | 3 | 404al6 | 4.7520 |
| P-13 | ${ }^{4} \mathrm{C}$ | 4 | 408417 | 3ps.3170 |
| Ps. 14 | tP | 5 | 409818- | JPS-341P0 |
| P. 16 | come | 6 | 409311 | 108-3550 |
| E. 15 | come | 6 | 409310 | JPS 3650 |
| P-17 | LP | J | 109A30 | AIILPO |

FON ACOS (MONARCH) CARTRIDGES


FOR ASTATIC CARTRIDGES


 FOR EANG OLUFSEN CARTRIDGES

 for Clarkstan cartidiges

FOR ELECTRO-VOICE CARTRIDGES

ps-4 |tp | 20| om.2, sm-2
| El.2solpo

| $\begin{gathered} \operatorname{siocx} \\ \text { mo. } \end{gathered}$ | $\begin{gathered} \text { SI2E } \\ \mathrm{PT} . \end{gathered}$ | Fic. | CARTRIOGE | REPLACES JEMSEM WO |
| :---: | :---: | :---: | :---: | :---: |

M-su|le |31|c.c.ipa OO GOLDHing CARTRIOGES


## 

|  |  |  | ( 560176, 560180 |  |
| :---: | :---: | :---: | :---: | :---: |
| Ps-51 | come | 31 | $\left\{\begin{array}{l}\text { Scel13, } 560151,560169-1,\end{array}\right.$ | m-sose |
| P.35 | 18 | 54 | \$50176, \$60180 | Cill |
| M. 15 | coma | 6 | Scell7, scoles. 1 series | JP |
| Ps-70 | coma | 51 | \$40161 | 3.6650 |

for marixel cartribees
M-21|Lf \| 101 A 7094
| A-SPLPD
FOR PHILCO CARTRIDEES
 FO mollips (Norolco) CARTRIDGES

FOR PERMETUUM EENER CARTRIDGES

for r.c.a. cartrioges

1400


| $\begin{gathered} \text { stock } \\ \text { mo. } \end{gathered}$ | $\begin{gathered} \mathrm{SIRE} \\ \mathrm{Pr} . \end{gathered}$ | F16. | CARTRIOGE | REPLACES JEWSEN MO. |
| :---: | :---: | :---: | :---: | :---: |
| for shure CAl俍idges |  |  |  |  |
| PS. 16 | come |  |  | JPs-3550 |
| PL-15 | come |  |  | JPS.3650 |
| F3. 10 | LP |  |  |  |
|  |  |  |  |  |
|  | 1 | $4\left\{\begin{array}{l}\text { PC11, P(13, P(40, P(401, } \\ \mathrm{C} 40 \mathrm{ET}, \mathrm{P} 41, \mathrm{P} 41-\mathrm{T},\end{array}\right.$ |  |  |
|  |  |  | PWCzzai-p, w'ciar, whiar |  |
| PS. 14 | $1 P$ |  |  | IPS-3ALPD |



FOR TELEFUMKEM CARTRIDGES
ps-72|comal ul Tisa
| TE-1eso FOR WEESTER ELECTIC CARTRIDGES

| PS.75 | LP | 56 | $\left\{\begin{array}{l} A B 1 M, A x(0+d) A 15 m, A 12 m, 1, \\ A 1, A 8, A 3, A 4, A 5, A 6, N, \\ A C, A 1, A 10, A 1 \end{array}\right.$ | W. 150 |
| :---: | :---: | :---: | :---: | :---: |
| Ps. 11 | 1 | 53 |  | W57L |
| P. 17 | LP | 7 |  | A-8140 |
| FS. 10 | 18 | , | 11 | IPS-301P0 |
| PS. 76 | 16 | 1 | 23.2024 | JPS.3120 |

## STEREO DIAMOND STYL

All hove single .7 mill stylui except* .7 mil diamond and 3 mil rapphire, +.7 mil diamond 1 mil ropphite.

| stock NO. | DESCRIPTION | FIG. | NET |
| :---: | :---: | :---: | :---: |
| PS-81 | For Renette; OV, OVI, II \& 8FAd | A | 2.95 |
| Ps.80 | For EV Series 2621 | B | 2.95 |
| Ps-82* | for Sonotone 81 | C | 2.95 |
| Ps.834 | For Sonotane 87 | C | 2.95 |
| PS-85 | For RCA 106770 \& 106771 | D | 2.95 |
| P5.86 | For Monarch ICBS | $E$ | 2.05 |

Page 94
SAVE MORE WITH LAFAYETTE'S OWN HIGH FIDELITY EQUIPMENT

## REPLACEMENT STYLI FOR GE CARTRIDGES

FOR GE VA II CARTRIDGES (FIG. 3S)
Direst replasemenn for slip-in styli in GE Vil 11 series medets 46-050. 46-052. 46-053. 46 040, 46.041, 46-063, 46-061 cartridges.Ave. shpg. wf., 2 or
P5-48-1 mil diomond LP dipim stplat. Repleces $6 E 16010$......... Mot 2.59
 MODERNEZATION ASSEMBLIES (FIG. 33)
madernite your old iriple play cortridge. Thase ossemblies replece both the old ond aew serims "M." Once instelled, yee con replect ame milet di ther. DIAMOND SAPPHIRE. Repleces old RPJ-013 und new RPJ-013a. Avs. Wi. 2 or -5.46-list 31.00
DUAL DIAmOMD. Repleces old GE RPJ-018 and now If -012 -5.79-lis1 49.05
DUAL SAPPHIRE. flaplaces old GE RPJ-010 and meverelig. P5.545-list \$.\%

STYL FOR OLD TYPE GE CARTRIDGES (FIG. 32)
 PS-45-Diemend I mil (LP) replaces EE RP)-MM CS-541-Sapphire! mil (LP) roplaces SE PP)-005 PS-540-Sopphire 3 mil (72) repleces CE LDJ.001

FOR GE SERIES A CARTRIDES (FIG, 34)
Iadividuel styli replocements that elip in to all 6E "A"" serios. Avg. wh. 2 oz .
PS-47-Diemend I mil (LP) ropleces GE MPJ-010 PS-543-lepphire 1 mil (LP) repleces GE RPJ.815 PS-542-Sepphire 3 mil (Ti) repleces GE TPJ 03s
c

1.90
the old

Met 3.7
Mel 7.95
10

## DIAMOND

 STYLI FOR

AS LOW AS

## REPLACEMENT SAPPHIRE STYLA

KEY TO POINT CODE
Table below explains symbols in column headed "PT SIZE"
LP = SINGLE I MIL MICROGROOVE FOR $3 J 1 / 3$ AND 45 RPM
AG = SINGLE $₹$ MIL ALL GHOOVE FOR ALL JPEEDS ST = SIMCLE 3 MIL STAMOALTD FOA 78 MPM COMS $=$ DUAL $I$ MIL ANO 3 MII SAPPMIRES

Lafoyest sapphire meedles ore of the finest queliny, precision ground to fine toleronces. They ore sperially mode for Lefoyette by the finesl manvfactureri and brought to you of the lowest pesstble prices. All needtes lisied below have sapphire points except those marked with which are osmium. Are. shpe, wt., 2 oz.

ALL SINGLE SAPPHIRES
(Points coded LP, AG, ST)
ALL DUAL STYLI
(Points codod COME)
ALL SINGLE OSMIUM
.80
(Stock Nes. With Asterisk)


YOUR ORDER WILL RECEIVE PROMPT, EFFICIENT SERYICE AT LAFAYETTE

LAFAYETTE SPECIAL VALUES INT PADS, FADERS AND SPEAKER SWITCHES.

|  |  |  |
| :---: | :---: | :---: |
|  | New L pads for use as "brilllance" controls to vary mid-range speaker level. Bothlwirewound elements <br>  <br>  <br> vC-50-L pad for 16 ohm circuits | weeter level, or as "presence" controls to vary are concentrically mounted within one plastic mig screws, and attractive black knob. Size: Shpg wt., 6 oz. <br> Net 1.49 <br> Net 1.49 |

## LAFAYETTE COMPLETE CABLE ASSEMBLIES FOR HI-FI AND P. A.

High quality extension cables "Cailor made" for users of recorders, hi-fi equipment. etc. All plugs molded directly to various cable combinations. Shielded |cable for high impedance (mike, etc.) connections: parallel wire for low impedance (speaker, etc.) connections. Average shps. wt., 8 as.


90* PHONE PLUG (A) TO VARIOUS CONNECTIONS. Std. \%" sleeve completely shielced. All cables shielded except unshieided parallel cable. Avg. shpg. wh., 902 .

| Stock No. | One Termination | Cable Lencth | Other Termin ation | Net |
| :---: | :---: | :---: | :---: | :---: |
| MS-545 | $90^{\circ}$ phone plus (A) | 72 | Straight RCA phono plug (b) | . 72 |
| MS.546 | $90^{\circ}$ phone plug (A) | 72 in . | Straight RCA phono jack (0) | . 65 |
| M M -547 | $90^{\circ}$ phone plus ( $A$ ) | 72 in . | Straight.barrel phone jack (C) | . 93 |
| MS-548 | $90^{\circ}$ phone plug (A) | 72 in. | Mike connector (F) | .93 |
| M 5-549 | $90^{\circ}$ phone plug (A) | 120 in. |  | 1.26 |
| M 5-550 | $90^{\circ}$ phone plug (A) | 72 in. | $90^{\circ} \mathrm{RCA}$ phono plug (E) | . 72 |
| MS-551********* | $90^{\circ}$ phone plug ( $A$ ) | 72 in . | Stripped and tinned ends (J) | . 51 |
| MS.552* | $90^{\circ}$ phone plug ( $\mathbf{A}$ ) | 72 in. | Alligator clips (1) | 68 |

PHONE PLUG (G) TO VARIOUS CONNECTIONS. Std. $\mathrm{k}^{\prime \prime}$ diam. sleeve: completely shielded. Alt cables shielded. Avg. shpg. wi., i oz.

| Stock No | One Termination | Cable Length | Other Termination | Net |
| :---: | :---: | :---: | :---: | :---: |
| MS-482 | Straight phone plug (G) | 72 in . | RCA-type phone lask (D) | 9 |
| MS-485 | Straight phone plug (G) |  | Harrel-type phone jeck (C) | . 79 |
| MSS-553 | Straight phone plug (G) | $72 \mathrm{in} .$ | Milke connector (F) | .93 .95 |
| MS.554 | Straight phone plug (G) | 120 in . | Mike connector (F) | 1.26 |

SPECIAL 10 FT. JUMPER CABLE, Unshielded parallel cable, 10 f . Iong with alligator clips (1) at both ends.
Ms-561

## 3 SPEAKER SELECTOR SWITCH

### 1.89



Cenvenient rotary switch permits selection of any speoker or comblnation of 2 or 3 speakers from a remote lacatian. Attractively finlshed in gald metal with black and ivory ratary iwitch. Dimen. sians are $3 Y^{\prime \prime} \times 41^{\prime \prime}=2 Y^{\prime \prime}$. Shpg. wf.1 Ib. 1.89

##  <br> SHIELDED " $Y$ " ADAPTERS <br> Completely shielded $Y$-Adapters with choice of connectors and terminations <br> (A) Two phano jacks connectors in porallel to o stondord 2-conductor phone plug. Avg. shpg. wf., 7 oz <br> MS-595 <br> Not 69 <br> (A) Two phono focks sonnectors in paraflel to o itandard phono plug. <br> MS-596 <br> Net . 69 <br> (C) 3 phono jacks connectors in parallel. <br> Net 69 <br> (D) Two male microphone cannoctors in parallel to a standard two.canductar phono plug. <br> MS-598

RCA TYPE PHONO PLUG (B) TO VARIOUS CONNECTIONS. All cables shielded except * unshielded parallel cable. Ave. shpg.wi., oz

| Stock No. | One Tormination | bleLength | Other Termination | Net |
| :---: | :---: | :---: | :---: | :---: |
| MS-486 | Straight RCA phono plug (B) | ) 36 in. |  | $\bigcirc$ |
| MS-480 | Straight RCA phono plug (8) | ) 60 in . | Straight RCA phono plug is) | 47 |
| MS-481 $M S-487$ | Straight RCA phono plug (8) Straight | ) 72 in . | Straight phone plug 161 | . 69 |
| MS-487 MS-483 | Straight RCA phono plug (8) Straight RCA phono plug (B) | $48 \mathrm{in}$. 60 in. | -CA-lype phono jock 101 | . 54 |
| MS-484 | Straight RCA phono plus (8) | 72 in . | Borrel-lype phone jock (C) | . 60 |
| MS-5S5 | Straight RCA phono plug (B) | $) 72 \mathrm{in}$. | Mike connector (f) ${ }^{\text {m }}$ | . 85 |
| MS-556* | Strajght RCA phono plug (8) | 120 in . | Alligator clips (1) | . 81 |
| MS.573 | Straight RCA phono plug (8) | ) 36 in . | Stripped of tined onds (K) | . 34 |
| $\text { MS. } 574$ | Straight RCA phono plug (B) | 48 i | Stripped a linned ends (K) | . 36 |
| $\text { MS. } 575$ | Straight RCA phono plug ( 8 ) | 60 | Stripped 8 tinned ends (K) | . 39 |
| MS.576 | Straight RCA phono plug (8) Straight RCA phono plus (B) | 72 in. 144 in. | Stripped a tinned ends (K) Stripped tinned ends ( | . 41 |

90 RCA PHONO PLUG (E) TO VARIOUS CONNECTIONS. All cables shielded except unshielded parallel cable. Avg. shpg. wt., 9 of

| Stock No. | One Termination | Cable Lensth | Other Termination | Net |
| :---: | :---: | :---: | :---: | :---: |
| MS-557 | $90^{\circ}$ RCA phono plug (E) | 72 in | Sorrel-type phone jack IC) | .72 |
| MS-558 | $90^{\circ}$ RCA phono plug (E) | 72 in . | Mike connector (F) | . 88 |
| MS-559* | $90^{\circ} \mathrm{RCA}$ phono plug (E) | 36 in. | Stripped and tinnerl ends (J) | . 32 |
| MS-560* | $90^{\circ} \mathrm{RCA}$ phono plug (E) | 72 in. | Alligator clips (1) | . 63 |

# SWITCHCRAFT COMPLETE CABLE ASSEMBLIES FOR HI-FI AND P. A. 

High quality extension cables "tailor made" Ior users of recorders, hi-fi equipment, etc. All plugs molded directly to various cable combinations with grey plastic handle; built in electrical shield and cable clamp. Chrome grey shielded cable for high impedance (mike, etc.) connections; chrome grey parallel wire for low impedance (speaker, etc.) connections.


PHONE PLUG (A) TO VARIOUS CONNECTIONS. Std K" dia sleeve; com pletely shielded. All cables shielded except unshielded parallel cable stock
STOCK Av. shpg. Wt.. 5 oz .
NO. One Termination Cable Length


STOCK

| $\begin{aligned} & \text { STOCK } \\ & \text { NO. } \end{aligned}$ | One Termination C | Cable Le | Other Termination | Net |
| :---: | :---: | :---: | :---: | :---: |
| MS-635 | 90- RCA phono plug (E) | 18 in . | 90 RCA phono plug (E) | 62 |
| MS.636 | 90 RCA phono plug (E) | 36 in. | $90^{\circ}$ RCA phono plug (E) | 71 |
| MS. 637 | $90^{\circ}$ RCA phono plug (E) | 48 in. | $90^{\circ}$ RCA phono plug (E) | 79 |
| MS-638 | 90 RCA phono plug (E) | 72 in . | $90^{\circ}$ RCA phono plug (E) | 88 |
| MS. 639 | $90^{\circ}$ RCA phono plug (E) | 120 in . | $90^{\circ}$ RCA phono plug (E) | 1.18 |
| MS-640 | 90 RCA phono plug (E) | 18 in . | RCA type phono jack (D) | 73 |
| MS. 641 | 90 RCA phono plug (E) | 36 in. | RCA type phono jack (D) | 79 |
| MS. 642 | 90- RCA phono plug (E) | 72 in . | RCA type phono lack (D) | 1.03 |
| MS.643 | $90^{\circ}$ RCA phono dlug (E) | 120 in . | RCA type phono jack (0) | 1.18 |
| MS.644 | 90 RCA phono plug (E) | 72 in. | Phono extension jack (C) | 1.18 |
| MS. 645 | 90 RCA phono plug (E) | 120 in . | Phono extension jack (C) | 62 |
| MS.646 | 90- RCA phono plug (E) | 72 in . | Mike connector (F) | 1.44 |
| MS-647 | 90 RCA phono plug (E) | 120 in . | Mike connector (F) | 1.97 |
| MS-648 | 90- RCA phono plug (E) | 25 ft. | Mike connector (F) | 2.70 |
| MS-649* | $90^{\circ}$ RCA phono plug (E) | 36 in . | Stripped and tinned ends (J) | 44 |
| MS.650 ${ }^{\circ}$ | 90 RCA phono plug (E) | 72 in . | Stripped and tinned ends (J) | 3 |
| MS.651 | 90 RCA phono plug (E) | 72 in . | Spade lugs ( H ) | 9 |
| MS.652** | 90 $0^{\circ}$ RCA phono plug (E) | 120 in . | Spade lugs (H) | 88 |
| MS.653** | $90^{\circ}$ RCA phono plug (E) | 72 in. | Alligator clips (1) | 1.03 |
| MS.654* | $90^{\prime}$ RCA phono plug (E) | 120 in . | Alligator clips (1) | 32 |
| MS-655 | Straight RCA phono plug (B) | 72 ln . | Mike connector (F) | 44 |
| MS-656 | Straight RCA phono plug (B) | 120 in . | Mike connector (F) | 97 |
| MS-657 | Straight RCA phono plug (B) | 25 ft. | Mike connector (F) | 2.70 |
| MS-658 | Strajght RCA phono plug (B) | ) 72 in | 90 RCA phono plug (E) | 88 |
| MS-659 | Straight RCA phono plug (B) | ) 120 in . | 90 RCA phono plug (E) | 1.16 |
| MS-660 | Straight RCA phono plug (B) | ) 72 in . | Spade lugs ( H ) | 59 |
| MS. 661 | Straight RCA phono plug (B) | 120 in . | Spade lugs (H) | 88 |
| MS-622 | Straight RCA phono plug (B) | 72 in . | Alligator clips (1) | 1.03 |
| MS. 663 | Straight RCA phono plug (B) | 120 in . | Alligator clips (1) | 1.32 |
| MS.664* | Spade lugs (H) | 120 in. | Spade lugs ( H ) | . 53 |
| MS-665* | Spade lugs (H) | 25 ft . | Spade lugs ( H ) | 3 |
| MS-666* | Alligator clips (1) | 120 in . | Alligator clips (1) | 1.00 |
| MS.667* | Alligator clips (I) | 25 ft . | Alligator clips (1) | 50 |
| MS.668 | Mike Connector (F) | 36 in . | Mike Connector (F) | 1.18 |
| MS.669 | Mike Connector (f) | 72 in. | Mike Connector (f) | 1.47 |
| MS. 670 | Mike Connector (F) | 144 in . | Mike Connector (f) | 2.06 |
| MS-671 | Mike Connector (F) | 25 ft. | Mike Connector (F) | 2.94 |

## FLEXIBLE

AUDIO Y CONNECTORS


For converting Stereo Player to Monoural Con be used for - Top-In-Mefer Monitor connection. Also nequired on some Tope Recorders. 5hpg. wt., 4 oz
(A) Phono Plug cannecled 102 Phono Jacks by $4^{\prime \prime}$ shielded MS-672
(B) Phono Jock connected to 2 Phono Plugs

MS. 673
(C) 3 Phono Plugs cannected together by 4 NET.S9 coble

## SHIELDED Y CONNECTORS



Completely shielded Y. Adapters with chaice of connectors and terminations. Av. shpg. Wi.. 5 oz.
(D) Twa Phano Jax Cannectars in parallel ta a standard Phana Plug:
MS-675
(E) Two male microphone Connectors in........ Net 1.03 standard iwo-conductor Phane Plug
MS-676 Nol..Net 1.12
(F) Two Phana Jok Connectars in parallel to a standard 2-conductor Phone Plug

## SWITCHCRAFT STEREO AUDIO CABLES



Two shielded Insulated cobles, fof different color tones, for cosy identification of channels) inside a common chrome grey plostic jocket, providing two completely isolated chonnels. Av, shpg, wi., 6 oz.

| TYPE | LENGTH |  | NET |
| :--- | :---: | :---: | :---: |
| MS-678 | $36^{\prime \prime}$ | Phono Plugs | 1.91 |
| MS-679 | $6^{\prime \prime}$ | at all ends. | 2.20 |
| MS-680 | $10^{\prime}$ |  | 2.63 |
| MS-681 | $36^{\prime \prime}$ | 2 Phono Plugs of one | 1.70 |
| MS-682 | $6^{\prime \prime}$ | end. other ends Stripped | 1.91 |
| MS-683 | $10^{\prime \prime}$ | ond Tinned. | 2.20 |

## STEREO LINE BALANCE



( $M$ )
(I) Volume Control Adopler. Single channel, high im pedance circuips only. Phono lack inpup ta phono plug oufpul. Designed for use in unbalanced stereo channels, in poirs for dual slereo channel contral. Completely shielded: nickel plated. 5 hpg . Wi., 12 oz.
MS-689
MS-689
Nel 2.32
(M) Dual Volume Contral Adapter Twin channel, high im pedance circuits only. 2 phona iack in puts and 2 phono plug outputs with separate recessed valume cantrols. Tan finished. Completoly shielded. Shpg. wi., 1 l/2 lbs.

G) MULTIPEE SEEECTOR CONTROL

Connects ony one of $\$$ impul circuits (AM. FM, PHONO, TAPE AND AUX) to ane oufput. Attroctive lan housing is comoletely shielded. Complete with mounting hordware:
MS-684 ................................................................ 2.91
$\qquad$
(H) STEREO-MONAURAL SEEECTOR

Provides instont switching from monoural to Stereo. Two Phana Jas input and two phono Jan output. Attractive tan housing is completely shielded and may be mounted on cabinet. Supplied with mounting screws.
MS-685
Net 1.76
(1) STEREO-MONAURAL SEEECTOR WITH REVERSE Some as Swifcheroft 661 but with channel reverse feafure.
MS.686

## (1) SPEAKER PHASE CONTROL

Correct speaker phasing is essentiol in multiole or Stereo Speaker installations. This completely shielded control is ideal far this application. Attractively finished in ton with eosy to use screw terminals. Supplied with mounting hordmare.
M5-687
Nel 1.47
(K) PMONO-TUNER ADAPTER

2 phono jock inpuls; simple switch selects either. A convenient phono output jack for connecting to omplffier. Includes mounting scrows. Av, shpg. wf. for obove units is 1 lb .

## GRFAT HANATMTND BUYS



## HI-FI TURNOVER CARTRIDGE

40.14,000 CYCLES (PK-79)

Never before has a surnaver cartridge of this qualier been offered of such a price. Frequency response from 10-14,000 creles $\pm 2$ dbl Mos 2 ropphire styii to play oll speeds and types of records. Needie pressure reaulred is only 5 groms on LP and 12.15 grams on 78 RPM . Output is 3 volls. Fits W , WMes Ga nob. Fits Websier. Garrard, VM. Colloro and tane arms of other leoding monufaclurers of record changers ond Dlovers. This is one of the oulstonding tofaverte values
PK-70-Singly, each $\$ 2.75 \ldots .$. in lots of 3 , each 2.50 PK-84-Sapphire IP Replocement Needle PK-85-Sopphire STD (78) Replocement Needle . 69

## PHONO CARTRIDGES

3.5 VOLT OUTPUT (PK 11)

Guoronieed high quality eroct duplicotes for direct re
plocement of oll stondord cortridges such os 170,182 ใ92. W6OB, N10, and many athers. Pin plug connectors for all 78 r.D.m.
PK-11 each
3 VOLT TURNOVER CARTRIDGES
High Output: $\mathbf{3}$ valts

- Turnover Mechanism Dual Sapphire siyli
Excellent Frequency Respunse
STOCK NO
PK 80

Lafoyene has gone oll out ro provide for the servicemon o beforement furnaver phono cortridge of oprice never with onoined. Here is a crysiol carridge camplete broct 2 sopphire styli. furnover mechanism, mounting recard and knob-with sumcient oulpul io use in any enobles you to use il on any repoif iob. length, Hess tnab) $2 \frac{1}{0^{-}}$. Ease of mounting ossured by two sels of mounting holes each sel with $1 / 2^{2}$ senters.
PK.80-Singly, eoch 2.50 ..........in lots of 3, each 2.25 PK-86-Sapphire IP Replacement Needle. PK-87-Sapphire STD (78) Replacement Needle

## RONETTE HI-FI CARTRIDGES <br> IMPORTED FROM HOLLAND

## Lofoyello brings you this tomous high fidelity cartridge

 for use in Callaro, Webster, Garrard and VM changers. Tumover type equipped with 2 sopphire styli to ptoy all speeds. Frequency response to 9,000 cycles, outpul.? fit moss tone arms of purnover mechonism players. $\mathbf{w i}$ PK-62 (TO.284-OVca. 2.95
HIGH OUTPUT MODEL
Has less than $1 \%$ intermodulation distartion plus high oulput of 2.2 volts. Complete turnaver with 2 sopphire styli. Popular type mounting.
PK-82 (TO-222)-In lots of 3 , each 2.75 ; singly 2.95 TX-88. HI-FI MODEL
This new wide range high fidelity crystal furnover cant ridge hos a frequency response fat fram $30-24.000 \mathrm{sDs}$ Output is 0.4 volts. which mokes it useable without o preomp. If gives stroight line response fram new ortho records and so requires no equolization. Entremely high compliance stylus ossembly iust snops into ploce. Com. dete with dual spyli. Shog wt., 6 ar RONETTE TX-88

Net 7.35

RONETTE
TO-284.OV_-TO-222

## A LAFAYETTE SPECLAL! STEREO TONE ARM COMPLETE WITH CRYSTAL STEREO CARTRIDGE



## only <br> 2.95

An exceplional voluel A transcription-type stereo fone orm ready for use with all sterea and monoural ip records of an amozingly low orice. Modern, plastic, stroight line design with offict olug-in heod which has a wide-ronge ceromic stereo cartridg with single sapphire sivlus. Out. put is 1 vols per channel-high enough to connect directly put is volt per channel-high enough to connect directly to basic amplifier. Stylus pressure adiustable by varioble spring tension. Has finger-lift for eave in handling.


Mounts easily-requires anly ane $7 / 16^{\prime \prime}$ hole and is secured by single locknut. May be mounted on Iurntable bose of up to $\mathrm{K}^{\prime \prime}$ thickness. Easy height adiustment of bose of orm. Overoll length $10^{\circ}$. Finished in gleaming block with gold trim. Shag. Wi.. ilt.
PK-171 Stereo Tone Arm with ceromic cartridge Net 2.95 PK- 172 Replocement cortridge............... 1.95 -5-576 Replocement needie

### 2.75 <br> 

- excellent frequency response
- high output - low tracking force - dual sapphire stril

Anorner instance or Loforette speciol value for rau: o stereo ervitol lurnover cartridge of such o low price. Frequency respense $40-14,000 \mathrm{cps}$. Trocks with low stylus pressure and high output voltoge. Encellont chonnel sep. arations for stereo effert. Supplied with turnover mech. anism. knob and dual sopohire styli to ploy records of all speeds. Campletely compotible. Fis all stondord orms. Shpe. wi. 6 oz
px-25
Ne1 2.75

## REPLACEMENT STYLI

PK-281-Sopphire Stereo IP
PK-282-Sopphire SiD (78)
Nel . 69
Net 2.95

LAFAYETTE IS HEADQUARTERS FOR PHONO EQUIPMENT AND ACCESSORIES

## ON PRONO PARTS



GOLDRING "500" MAGNETIC TURNOVER CARTRIDGE

## Entirely unique, and exclusive among the SO0's features

 is the "push-pull" coil orrongement which outomatically cancels out inductive hum picked up from the radiation of changer motors, etc. This permits users of the " 500 " 10 realize the full potential of the variable reluctance prim siple. The " 500 " will fit any lone orr having standard $1 / 2^{\prime \prime}$ mounting holes to replace any cartridge without alter pion of playing equipment. Shpt wt, 13 ozPK-137-GOLDRING " 500 " cartridge with
2 sapphire styli ...................................Not 5.75.
SONOTONE 2T-S (Supersedes 9980-5)

## Turnover Ceramic Cartridge

This corridge is used to replace Astatic AC, ACD, CAC GK, LD, ELECTRO VOICE $16 T T, 33,43$, LOT SGT; SHORE WC series from WC22 to WC36, W22, W26; Feaster Electric ax, A1, A9-1. II is to be used on VM, Columbic 360, Webster. Crescent record changers and many other roes now in use. Will give such hi-fi chorocteristics os extended frequency range and absence of distortion for beyond most cartridges it replaces - all with the odder odvontoges of ceramic safety from humidity and heat. Has 1 mil stylus for LP records and 3 mil for standard - both sapphire. Shops, wt 8

## ZENITH COBRA CARTRIDGES

All Zenith colfridges ore Identified by color. Just motch color to obtain emos replacement. "For diamond cor. ridges listed below gold will reploce green and blue white reploces blue i gray replaces brown. W1., 5 ox STOCK ZENITH
NO. NO. COLOR COBRAMATIC

turnover 3 mil Sad 11.00

## ZENITH 45RPM SPINDLE

FITS ALL COBRAMATIC CHANGERS
Zenith S22006 spindle fils all models, Cabromatic changers and eliminates use of "spiders" and other devices to insert in records. Natural color matches any unit. Simple instructions with och unit. Shag. wt. I it. PK-391 Zenith S22006


# Et 



## ADMIRAL CARTRIDGES

ADMIRAL A1745 - Improved version of A1372. 3-prong snop-in type reposes both numbers. For Admiral changers models RC170, RC1704, RC180, RC181 and RC182. Com dele with 78 RPM Osmium needle. Sha. w. . 12 oz - 100

Not 3.38
ADMIRAL 409All - Sorrel ty de turnover cartridge fo Admiral changer models RC210, RC211, RC212. RC220 RC221, RC222, RC320. RC321 and RC322. Complete with wo ftP and stondord) osmium needles. Shag wi 12 oz . D. 101

Net 0.20

## PHILCO CARTRIDGE

Genuine Philo Universal replacement for Philco port numbers $425.0011,425-0016$ and 325.8024 . Fits changer models M20, M22, M24, M24A, M25, M26 on many others. Comes with 2 styli. Shpg.

## MAGNAVOX CARTRIDGES

Genuine Mognovor exact replacement cartridges complete with indicted still. Shpt. wi., 12 oz.


## RCA CARTRIDGES

Genuine RCA exact replacement cartridges complete with
indicated styli. Shag. whf., 12 oz


## RETRACTOMATIC CARTRIDGE



Webster Electric No. P2-I spring mounted high output arrival cartridge. Hos 2 mil osmium stylus 10 ploy all speeds. Outpul Jv on 78, 2 volts on (P.
D-65 Webster Elea. No. P. D-65 Webster Elec. No. P2-1 crystal
cartridge Shag. Wt., $908 . . .$. Net 2.91


PK-94
Net 7.50 $t$10
-

| STOCK NO | RCA |
| :---: | :---: | :---: |
| $\mathbf{D - 3 5}$ | 989 |
| $\mathbf{D - 3 6}$ | 703 |
| $\mathbf{D - 3 7}$ | 740 |
| $\mathbf{D . 3 8}$ | 759 |
| $\mathbf{D . 3 9}$ | 777 |
|  |  |



### 2.45

- 21/2 VOLT OUTPUT
- turnover chrystal cartridge
- dual sapphire
- 40-12.000 CYCLES

A terrific voluel Modern. plastic, stroight-line design with offset head, furnished with furnover-lype, high.outpus crystal cartridge ( $21 / 2 \mathrm{Y}$. ) with dual sapphire styli. Power enough to connect directly to basic amplifier. Stylus pres. sure adjustable by vorioble spring pension. Hos finger lift for easy in handling Overall length $81 / 2^{\prime \prime}$. Height from or to 1/" $1 / 4$ spaced mounting. Shielded leads. Smooth, gray finish plastic orm. Shop. wi. 2 lbs.

[^1]PK-159-Sopphire Sid. replacement needle....Net . 69

## NEW! 4-SPEED HI-FI TURNOVER PICKUP <br> TURNOVER PICKUP



- ARM TAKES STEREO OR MONAURAL CARRIDGES WITH WIDE RANGE MONAURAL CARTRIDGE ADJUSTABLE ARM HEIGHT AND STYLUS PRESSURE
Arm is wired for stereo, anticipating future conversion. Has o wide range turnover monaural crystal cartridge with dual sapphire styli. Output is $11 / 2 \mathrm{~V}$. Easy height odiustment of base, $1 \%^{\prime \prime}$ to $1.9 / 16^{\prime \prime}$. Also stylus pressure adjustment. Plastic arm $91 / /^{\prime \prime}$ long overall. Bose $11 / 4^{\prime \prime}$ w. with mounting holes on $1 \% \%^{\prime \prime}$ centers. Shielded leads. Satin smooth light maroon finish. Shag. wt., 2 tbs.


## PK -146

PK-232 Pickup arm only less cartridge
PK-158 Sapphire IP replacement Needle
PK. 159 Sapphire STD replocoment Needle-

Net 2.75
Net 1.25
Net .69
Not .69

lafayette special stylus INSPECTION MICROSCOPE

With this porkel-sized inspection microscope you con examine your stylus tip for signs of wear, imperfections. general condition. Its $50 X$ magnification is enough to provide o good, clear image for observation. The "ob jective" end hos o curved metal guard which reflects light source for strong illumination; the slit in the guard olso enables the centering of stylus in microscope field. Can be used with ony stylus. Hos odjustoble objective lens. Size $3 \%$ " long $x 1 / 2$ "diam. Shag. wt., 8 az.
PK-237
Not .98

## STEREO <br> 1.25 <br> PICKUP ARM

Low-priced plastic pickup orm, wired for stereo. Overall length $91 /{ }^{\prime \prime}$. Bose $1 \%$ " wide with mounting holes on $1 \%^{\text {" }}$ centers. Easy height odiustment of bose, $1 \mathrm{k"}$ to $1.9 / 16^{\circ}$. Simple stylus pressure adjustment. Will accept virtually all stereo and mono cartridges, including furn over type. Satin smooth light maroon finish. Shpt. wt. 2 lbs.
PK-232 pickup arm, less cartridge
Net 1.25

## STEREO AND MONAURAL REPLACEMENT PHONO CARTRIDGES



## TURNOVER TYPES

All are equipped with dual sapohire stylis 1 mil (LP) and 3 mill (Sid78).

| Now No. | Oid No. | Fi. | Met. | New No. | Ofd No. | Fig | Net. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 r | ACD-1 | AA | 4.09 | 667 | cotmy | 1 | 3.82 |
| 40 ta | ACD-21 | B | 4.97 | 3107 |  | U | 3.21 |
| 417 | ACD-CJ | Aa | 5.58 | 31075 | 310.85-78 | $v$ | 3.21 |
| 417 | ACD-C-21 | B | 5.48 | 3121 |  | U | 3.21 |
| 531 | 53-7.1 | P | 4.68 | 31275 | 312-73-78 | $v$ | 3.66 |
| 535 | 55-7-3 | PP | 4.68 | 405 |  | 1 | 4.68 |
| 57 | 57-7 ( 13 | PP | 5.59 | 408 |  | R2 | 4.68 |
| ${ }^{627}$ | 100.1.j8 |  | 5.88 | 409 |  | Pp | 5.59 |
| 6277 | 100.11 | 1 | 4.68 | 410 |  | 0 | 3.82 |
| cats | catms | - | 4.00 | 42015-78 | 42075 | v | 3.21 |
| 6678 | $66^{148}$ | ${ }^{\circ}$ | 5.29 | 422-75-76 | 42275 | v | 3.50 |
| 6675 | 6tims | RR | 4.26 | 42415 |  | v | 3.62 |

STANDARD GROOVE TYPES
Single needle type for STD(78) only. Type morked - have sopphire 3 MIL sfyli, it has osmium ityli; others less needie.

| New No. | Ordime. | Fleg. | Net. | Now N | Old No. | F39 | Nef. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 8.2 | C | \$5.29 | 32 | L.82A | c |  |
| 4 | t.26A | 6 | \$2.62 | $66.3^{\circ}$ | 66.3 M | H | \$2.91 |
| 6 | t-40a | c | \$2.62 | 401 | 401.4 | w | 42.50 |
| 12 | t-12 | F | \$2.62 | 4024 | 402.M | $\times$ | \$4.67 |
| 120 | L-12U | F | \$291 | $403{ }^{\circ}$ | 403.1 | $\stackrel{\text { b }}{ }$ | 34. 17 |
| 24 | 1.70A | ${ }_{6}^{6}$ | 5291 | $430{ }^{\circ}$ |  | 2 | \$4.41 |
| 26 | L-72A | 6 | \$2.91 |  |  |  |  |

MICROGROOVE TYPES
All with sopphire 1 mil ityli for IP only.

| Mow No. | Oid Mo. | Fing. | Net. | New No. | Old No. | Fig | Net. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40.1 $42-1$ 44.1 50.1 51.1 | ACJ ACRJ CACJ USJ S1-1.J | $\begin{aligned} & \text { A } \\ & \text { A } \\ & \mathbf{M} \\ & \mathbf{O} \end{aligned}$ | 3.02 5.23 4.41 5.59 4.35 | $\begin{aligned} & 62-1 \\ & 408 \\ & 414-1 \end{aligned}$ | 62-1-M | Q | 2.91 2.62 2.62 |
| ALL GROOVE TYPES <br> All equibped with angle 2 MIt sopphire styll for olls is Osmlum tip and $\dagger$ is less noodle. |  |  |  |  |  |  |  |
| New No. | Old No. | Fig. | Net | New No. | Old No. | Fig | Net. |
| $\begin{aligned} & 16 t \\ & 22 t \\ & 28 \dagger \\ & 40-2 \\ & 51-2 \\ & 53-2 \end{aligned}$ | 1613 | $\begin{gathered} \mathrm{H} \\ H \\ \mathbf{N} \\ \mathbf{A} \\ \mathbf{O} \\ \mathbf{O} \end{gathered}$ | 2.32 | 59-2 | $\begin{aligned} & 59-2-J \\ & \text { LT4AG } \\ & 66-2 \mathrm{~m} \end{aligned}$ |  | 5.00 |
|  | 1-29 |  | 232 | 50-2 |  |  | 4.12 |
|  |  |  | 2.32 | $66^{2}$ |  |  | 2.91 |
|  | AC-AG-J |  | 3.02 | 1061 |  |  | 2.11 |
|  | \$1-2.1 |  | 4.36 | $310-2$ |  |  | 2.81 |
|  | 53-2. |  | 4.36 | 312.2 |  |  | 3.21 2.62 |
|  |  |  |  | 416-2 |  |  | 3.21 |

ASTATIC SURMINIATURE CARTRIDGES Shpe. wt., 6 or.


For new narrow arm Pecord changers such os VM No. ilers. With dual sopphire styli.
No. 120 rs
No. 124Ts
$\begin{array}{ll}\text { Not } 3.87 \\ \text { Nat } & 3.81\end{array}$
Not 3.81
PLUG-IN CARTRIDGE FOR RCO
Exoct roplocement for RCA port 105837 used in models 9JDI, 9ED2, 93D3, 6EY3D. astatic ;3-1. With 1 mil ASTATIC 83-1X With 1 mil
astatic picxup carteldge semvice mit
Contains 36 cartridge production parts including knobs, springs, scrows. spacers ond other speciol hordwere which simplifies the service and replocement of pictuo car tridgen.
ASTATIC MIT \#1. $\qquad$ Not 1.15


## ASTATIC SOUND FLO PHONO CARTRIDGES

Outstonding plug-in ceramic certridge ond needle combinotions, furnover type with dual i mil and 3 mill styli. 8T SERIES WIDE RANGE
NO 817B. Reploces Sonatone 2T, E.V 56, Shure PC2, 4 series and many others. Complete assembiy includes cartridge, 2 sopphire styll, mig. brecket, housing. turnover
 Net 2.91
Net 2.32 8178X. Same as 8178 ercept with diemond-sepohire styit Net 2.32 EITX. Replacement cortridge and styli assembly far 8118 BX

Nel 5.es 89 SERIES MIGH FIDEHTY
NO 84TS. Reploces Sonoton 3T, E.V 86, Shure PC. 6 series, Magnavox $560212-2$ $560192.1,560215-2$. Complate assembly includes cortridge, 2 sapphire styil, mig. bracket, housing, furnover lever. Shpg. wi.. 6 oz.............................................. 30 897. Replacement cartridge and styli assembly far 8978. 8978X Same es 69TB except with diomond-sapphire styli.a.............Net 7.03


## ASTATIC SOUNO Plo CERAMIC STEREO CARTRIDEES



These ceromic cartridges replace mast existing manoural ceramic and crystal certridees. Completely compatible, ploys cither stereo or monourol records. 4 terminals for hum-liee perfarmance. Channet separation, 25 db . Re . sponse $20.15,000 \mathrm{cps}$. RIAA equalized. $0.5 v^{\circ}$ output. 6 gm trecking force. Fifs all stondard arms with Astatic mounts. Complate with needle-cartridge plug-in ossembtios. Shpg $w 1.6 \mathrm{oz}$

Astatic 1178 Cortridge with furnover mount; $2-0.7$ mil sopphire styli for extended stylus life with $33.1 / 3$ (LP) and 45 rom monoural recards and stereo records. Net 4.67 ASTATIC 117 Some os 11778 bul cortridge only, less mount Net 4.09 ASTATIC 131 B Cortridge with lurnover mount: one 0.7 mil and ane 3 mil sapphire stylus. For all monaural and stereo records .... .................................... Net 4.67 ASTATIC 131 Some as 1318 but less mount

Net 4.09 ASTATIC 1318 X Cortridge with turnaver mount: one 0.7 mil diomand and one 3 mil sopohire stylus

Ner . 20 ASTATIC 131 X Some os 1318 BX but less mount

Net 7.62


## SHURE



Turnover Cortridges Far $33 \frac{\mathrm{~m}}{\mathrm{M}}$. 45 , and 78 apm Records. All with duol sopphire styli, exceot - hove dual ormium ityli. All are ceramic encept $\dagger$ ore crystol.

| Model No. | Fig. | $\begin{aligned} & \text { Ontput } \\ & \text { MG } 5 \text { O } \end{aligned}$ |  | Net |
| :---: | :---: | :---: | :---: | :---: |
| W22t | D | 1.2 V | 1.4V | 5.59 |
| W22-71 | E | 1.2 V | 1.4V | 5.86 |
| WC24* | F | 0.6 V | 0.8 V | 5.14 |
| WC24-T* | 6 | 0.0V | O.6V | 5.44 |
| WC25 | K | . 65 V | . $7 v$ | 5.59 |
| W721 | 1 | 3 V | av | 5.00 |

"Twin-Lever" Cortridges for 331/2. 45 and 78 PPM Recards. All with dual sap. phire styli except thas diamand and soophire styll. All ore ceromic except $\ddagger$
is erystol.

| Model No. | Flo. | $M G$ | STO | Net |
| :---: | :---: | :---: | :---: | :---: |
|  | H | SV | 7 V | 8.53 |
|  | J | 3.5 V | 5v | 5.59 |
| wC10 | ${ }^{\mathrm{N}}$ |  | 1.0V | 5.59 |
| C10D* | N | .78V | 1.0V | 19.99 |

Standord Cartidges Far 78 RPM Recoras. All are crrstol W5SN has bifurceted enm. bination slaybock and recording strlus for Wilcon. Gay ecordette wbs has single 3 wil Gar tecandene. Whe has single 3 mil osmium stylus. W7O suppliod less needie.
Madel
No.

## SONOTONE UNITIZED CERAMIC STEREO CARTRIDGES



This fully compatible ceromic stermo certridge con be installed in proctically ony tone orm in a fow minutes. Torminal soldering has been eliminoted by o unique plug socket design. Covers the complete high fidellty range $20.15,000$ cycler flat RIAM, 0.5 V output, $6-\mathrm{Alms}$ trock. ing force. 5 hpg . Wt.. 6 oz.

## $1072-5$ Turnover mount with .7 mil ond 3 mil sapphire styil

N10T2-5-os above, less mount and soctel
1072-50-turnaver mount with . 7 mill diamond and 3 mill sopphire
N10T2-50-as above. less mount and socket
N1012.50-as abave. losi mount and socket ..................
M10t2-57\%. As above. less mount ond sacket
N1072-57\%-As above. less mount ond sacket ............................
 ALL PRICES ANO SPECIFICATIONS

## DO IT YOURSELF - BUILD YOUR OWN STEREO PHONO SYSTEM



## ENJOY The MAGIC Of STEREO



Replacement Cortridge


## ONLY 38.50

## 4 SPEED PHONO MOTOR WITH TURNTABLE

Quief. dependable A-C operotion ossured by mubber shoct-mounted friction drive motor Speed change contral through idler driving
 $31 / 2: 21 / 2 "$
wf. $31 / 2$ lbs.
M-24 Phano ond Purnfable..........Net 5.35 M-14P Mounting board for mofor


## RCA PHONO SWITCHES

FIG. A. - TPE 240天1 Dedve Phome-Used to operste record woyer threugh codio without a phono inout. Complete with shielded $15^{\text {n }}$ cable, plug, fact and instructions FIG. B. - TVPE 202Wi Selenter-Uned to operate 2 record ployers through one rodio sel or omplifier. Quich, easy chongeover; mounts on rear of cobinel. Complete with fochs. olugs. eic. Shpe. W.. I ib.
CA-24OXI I Rodio Phono Switch
Ne1 1.47
HCA-202WI Solector Switch
Net 3.33


## TRANSISTORIZED STEREO BUG

An ingenious device that enables you to olay the second chonnet of your stereo snitem through your broodcast rodio receivers Use with any ceramic stereo cortridge or mope head and plarback preamp. The receiver can be puned to o clear spet anywhere befween 550 and 1000 kc . Completely transintor. ired and contains highty efficiont oscillator. Stable and rofe operation. Enyy to install, no woldering required. Siser $41 /{ }^{\prime \prime}$ " $2 y_{4}^{\omega}, 11 / 4 *$. Shpg. wt., ilt.
DK-22 - less bottery.
BA-109 Bottery ior above. Burges: Z-4

Ne1 13.23
Nol $\mathrm{A}_{3} \mathrm{mo}$.

## COMPLETE STEREO SYSTEM

Put your own mechonicel tolents to use ond sove your. self real monerl lofoyette brings logether all the besic components required for a complate steree phono systen in this "easy-to-ossemble" packope; you will edioy es. cmbling the bosic amplifier and hooting up the speote ars, lurnioble and pictup. And you will enioy its fine stereo performance pickip. Complet packoge sonitsts of Lef. KT-12 baske stereo phowo amplifier Kh, Lef. ML-24 4.sed pire siereo phowe ampliver Kh. LD. $33 \%$, 45 IP ond 78 RPM records, 2-Laf. S18-97 $81 /$ \% Con, is IP ond 78 RPM records, 2-Laf. Sx-97 $81 / 2$ Coemial Spetakers with buill-in crossover networks and overoll response of $50-16,000 \mathrm{cps}$. and Laf. PK-171 Stere Tone Am with Lafeyerre Plug-in Crystal Steree Certridge with .75 mill sopphire styli for stereo and moneural records. The KT. 126 kit becomes 0 complete stereo phono omplifier, 2 wolts per chonnel, with separote volum conirols for eoch channel, ganged tohe control and "stereo-reversal-monourol operotion" switch. This kit hos many fine features, omone them, on halation tronsformer to oliminote shoct hazerd, os is mere fully described in the "Xit Section" of this catolog. It will operote beautifully fram the lofayette stereo ceramic crystal cartridge to give you foithful quolity and stereo ceolism. Shpg. wi., 20 lber.
PK-33*W
5.00 Down

Net 38.50

## BATTERY-OPERATED PHONO MOTOR



3 SPEEDS OPERATES ON FOUR FLASHLIGHT CELS
A fugged, constont phono motor and turntable with how wow and hutter. Low current drein gives 135 hours of normal use ill stondord mashlight cells. Now 6 inch plastic turntable will ploy 4S, 33 y, 16 RPM records. Eosy mounting, single ossembly. Depth below mounting surface 2 in. Shpg. .t. 4 lbs.
m- Battery operoted phono motor and iurniable Not 10.20

## WIRELESS BROADCASTER

Pary your mbenegreph threwgh eay revio eny to every room thot hos a redio. Connect phono to wireless broodcestel. June in ony mierophones for vaice broodcost. Has volume contral with "on-of" switch. Size $4 \% \mathrm{~m}$

Ne1 $\cdot 75$

Net 4.25

## SHIELDED PHONO LEADS

$40^{\text {" }}$ long shielded phone coble. Overoll polyethylene Mnsulotion. Ideal for phono conmections or for lesters.
where in ithe house wilhect cenmoction wiree. Telk inceegh yeer retle By micrephoses.

Lefoyette" new wireless broodcaster will eatend your onjoyment of your phano-player rodio to the wireless broodcaster, which breadcasts on an adjustoble frequency between 700kC - 1700kC. Pick your spot. Will soke erystal or mognetic cortridges ond alw $5 \%$ m $11 / 2$. Complesely wired ond assembled with oll pubes ond operotimg instrue. fions. 110 V AC/DC operation. Shpo. wt., it ibs.
2A-14 Wireless broodcoster
PA-24 Crystol microphon

### 9.75



## PROTECT YOUR RECORDS WITH PLASTIC COVERS

 Solt plioblo plontic covers so protect recorth from dirf, duyt ond $12{ }^{12}$ 'ocords in iocheth and in round booded bottom to cover $10^{\circ}$ ond $12^{\circ}$ Tocorts without ioch ith. Shope wi., $1 / 2$ ib. PK-117 - Packoge of $3012^{\circ}$ Square bockel Covers M-118 - Poctrose of $4010^{\circ}$ Square lachlet Covers Pk- 120 - Portrose of $3012^{-}$Round Record Covers W-121 - Poctroge of $4010^{\circ}$ loend lecerd Covers

## PHONO OSCILLATOR

For use with all trpes of phomes Compact, well-bualt unit, tured vithin brosdcast bend. Complotoly wired reedy for usa. Supplind milh RCA type phono iact, 1-12856 and i-35W4 tubes, hant antonae, off. AC cord. For llov ACIDC operetion. Shpg. wt. apprex 2 lbs. PR-15


PLASTIC COVERS FOR CHANGERS
AND TURNTABLES


Heary vinyl cavers to protect chongers and purntables from dust. divt and moisture. Reinforced slitched edges, 5 hpg. wh., 6 oz PR-153 for all record chongors. Net 70 M-154 for turniobles._............... 1.19 ISOLATION PAD Foam pod tits under chonger or player boses, recerten, ele. Protocts furniture hetos reduce ocoustical noise. Ono side corrugated for no-silip. $161 / 2^{\prime \prime} \times 13 y / 4^{*} \times$ \%" thick. Shpo. wt., 2 lbs. PK.155

|  | OSCILLATOR <br> For use with all rypes of phonos. Compset, Fell-built unit, tuned withim brosdcast bend. Comsupplied with RCA type phono jact: I-l2BEs and I-35W4 tubes, hant antonae, 6 f. AC cord. For llev AC/DC operetion. Shpg. wh. apprex. 2 lbs. PR-15. $\qquad$ 4.50 |
| :---: | :---: |
|  | $119$ |

2-TUBE PHONO AMPLIFIER 4.50 with Twbes


A two tube phono amplifior Lsing - 5016 and 3525 tube as rectifier. Well-bulit good recre end volume. Conta.m: volume control with switch. volume control with switch. ${ }_{3}{ }^{\text {at A B }}$ 3 ibs.
-24-Two tube
COM

## TE-10 Ounte tronecermerit WITM TUEES

tube 103.4 ohm voice coil. Shpg. Wt., $1 / 2$ it
The-10 - Singly, mo. 5p. in tots of 5, eo. Spe

AG-DC Phone Ampllifer

2.95 Equipped with varim ole lome conlral and e soparafo volume control. Delivore two wetts oulput. Phonogreph motor conmects to the ampllfier. Uses lizato Th- 10 Outpen ir manetermer matches oulpul lube to 34 ohm voice coil. Shps. wt.. $1 / 216$.
Tin- 10 - Singly, eo. 59e In lots of 5, ee. 49e soms. and 35 w 4 recti ercien For $110-120 \mathrm{~V}$. 20 veles $A C$ or $11 a-1$ io $v$. C. Supplied with line cord and plug, but lass ubes. Shps. wt. 2 lbs. PR-23.
2.95

## LAFAYETTE VALUES in PHONO ACCESSORIISS

DELUXE WOODBASES AND MOUNTING BOARDS FOR

## TRANSCRIPTION



- FINEST SELECTEO HA OWOOO VENEERS
- CHOICE OF FIVE CABINETMAKER FINISHES PREEFLOATING FOAM RUBEER MOUNTEO motor soalo
inoIvioual mosustagle feet for accuante IEVEIJNG
These substontiol woodbases ore delune units mode from the finest solected hardwood veneers by skilled eraflsmen. All four sides are $3 /$ " $^{\prime \prime}$ thick ond the top is $\%$ ". All hove firmly secured mitered cornors. The lour bumper feel are flooting mouniling boord if foom rubber mounted and the top has o finish motching the woodbase. Avoiloble in five offroctive cobinetmoker finishes: mohogony, blonde, bony. wolnut and fruitwood; pleose spectly when ordering. The elogont styling and linish odd beouty to ony high fidelity installation. Accommodotos a qurnoble and o $12^{\prime \prime \prime}$ or $16^{\prime \prime}$
 Bose ond boord cut for lofayetto PK. 245 furntoble. PK-265 W BKe and boord cut for Lafoyette PK-240 iurntoble. PK-266W Bose and board uncut for mounting other makes of turntobles.
PK-267W
Net 14.95
Bose ond
PK-335 W


## MOUNTING BOARDS FOR LAFAYETTE TURNTABLES

Precut, unfinished, moothly sonded mounting boards for lofoyett turntobles. Reody for eory finishing. Sire $15 \%$ $201 /{ }^{\prime \prime} \times \%^{\circ}$. Shpg. wt., 3 lbs
PK-268W. Cut for Lof. PK-245 furnioble PK-269W. Cut for Lof. PK-240 furntoble

Net 3.75 PK-334W. Cut for Lof. PK-331 furntoble

Nef 3.75
Net 3.75

## BALL BEARING HEAVY DUTY DRAWER SLIDES

Mode of 16 gouge steel. Supports 50 lbs. Ball bearing, double-extension type. for mounting chongers. length $15^{\prime \prime}$, travel length $11^{\prime \prime}$, extended $22^{\circ}$. Shpg. wi. 5 Ibs. SHORT TYPE Same construction os obove but $13^{\prime \prime}$ long:

## travels $9^{\prime \prime}$; extends $102^{\prime \prime}$ <br> ML-113



## MODERN RECORD

 RACKAttractive, brass plated rock corrios 65 recards of oll sizes. Spring steet inporatars. Heavy corry. ing handic. Rubber tipped feet. Size $17 \%$. F . $5 \% / 9 \mathrm{H}$ $7^{\prime \prime} \mathrm{D}$. Shpe. wt., 4 tbs.
$\qquad$

## IYRIC ALL-METAL

 RECORD CARRYING CASES For frovel and home storage of re ords. All melol. rallod-edge conords. All melol, ralled-edge con-struction. All encepp model 57 hove struction. All ercept model 57 hove embossed inden for seporotion of
records. Model 57 holds records in records. Model 57 holds records in
envelopes. Atroctive 2 -tone wrinkle envelopes. Atroctive 2 -tone wrinkle
finish.

| Stack Na. | Madel | Copacioy |  | Shpg. Wt. |  | Not |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PK-113 | 57 | 48. $7^{\prime \prime}$ | Records | 2 | lbs. | 1.27 |
| PK-114 | 58 | $60-7 \prime$ | Recardi | 4 | lbs. | 2.29 |
| PK-55 | 43 | 50-10" | Recordis | 6 |  | 4.55 |
| PK-57 | 46 | 36-12" | Recordi | 7 | lbs. | 4.90 |

## CHANGER BASES



Wood base cut to fif all populor chongers. Shpg. wi.
For Use With Mah. TBlonde Net Wal. TNet Gorrard RC88/98 PK-356W PK.357W 3.95 PK 358 W 4.50 Gorrord RC121 PK.359W PK.360W 3.95 PK 36I W 4.50 Gorrerd 210 PK.362W PK.363W 3.95 PK. $364 W 4.50$ PK.365W PK.366W 3.95 PK.367W 4.50

 $\begin{array}{ll}\text { PK.368W PK.369W } \\ \text { PK.371 W PK.372W } & 3.95 \\ \text { PKK.373W } 4.50\end{array}$ \begin{tabular}{|l|l|l|l|l|}
\hline PK. 371 W \& PK.372W \& 3.95 \& PK. 373W 4.50 <br>
PK.374W \& PK.375W \& 3.95 \& PK. 376W 4.50

 Gorrard 4 MF Morrard Collaro chongers 

PK-374W <br>
PK. $377 W$ <br>
PK. $375 W$ <br>
PK $378 W$ <br>
3.95 <br>
\hline
\end{tabular} Collora TP59

SLIDE-OUT DRAWER for RECORD CHANGERS

### 6.95

SLIDE-OUT DRAWER for RECORD CHANGERS
Designed for custom insiollotions of record chongers in bookcoses, cobinels, toblas, tc. Mode of duroble plywood and equipped with heovy duly steel slides which operate smoothly and quielly on boll-beorings. Slides extend drower up to $10 \%$ " beyond edge of cobinet. Supplied either blonk or cut to your specificotions. Unfinished wood permits your painfing to sult your own decor. Slze $16^{\prime \prime} \times 16^{\prime \prime} \times 31 / s^{\prime \prime}$. Shpg. wt., 8 lbs
PK.47W
Ne1 6.95
MOUNTING BOARDS for RECORD


Strang, duroble $y^{\prime \prime}$ plywood, smoathly sonded and cut out for Garrord, Webeor, V.M. Collora. Unfinished for easy stoining. Specify for parliculor model changer de. sired. Shpg. wt., I Ib. Sire, $15 \% \times 15 \%{ }^{\prime \prime}$

## MOUNTING BOARO5

PK-380W-For use with Gorrord RC88/98 PK-381W-For use with Garrord RC1 21 PK.382W-for use with Garrord 210 PK-383W-For use with Gorrord 4 HF PK.384W-For use with Gorrord 4 H PK-385W-For use with Garrord
PK-385W-For use with Monorch chongers
PK-387W-For use with Colloro TP59
LEVEL AND LEVELING SCREWS


Precision. circulor level indicotor ond 4 odiustoble fell tipped leveling strows ond T nuts. Provides quick odiust. ment for exoct leveling of lurntabte. Easy io instoll, screws mount under bose, level on top. Shpg. wt., 6 oz . PK-273


RECORD ALBUMS 8
BOOKs (2)
(1) RECORO ALBUM -Duroble album. Holds 12 records and opens flat. A sel of these handsome albums will odd to the oppearonce of your record librory. Shpg. wh.. 3 lbs. PK-296-Far 7" Records

Net .63 (2) LP ALBUM BOXES - Storen records in lockels. Duti proof. Rigid overtapping sides. Covered in washoble, dur. oble Kyvar with chestnut board, deeply podded covers. Two tone 5 panish green Gold imbosted. Average thpg. - PK... 1 1b.


## CONVERSAPHONE

LANGUAGE COURSES
learning longuoges is fun by the omoring new Converse. phone method. In minutes, you'll be understonding and speoking o new longuage. Expert instructor leoshes you perfect pronunciotion os you follow eosh phrose in the lesson monuol. Conpoins $1 \cdot 10^{\prime \prime} \cdot 33^{1 / 3} \mathrm{RPM}$ record ond manual. Shpg. wi., $/ \mathrm{ll}$ lb.
PR-28 french PR-29 Sponish ............................................. 2.79 PR-30 Itolion .......................... ..... Net 2.79 PR. 31 Germon ..................................... Nep 2.79 PR-32 Hebrew ...................................... Net 2.79 PR-34 Joponese …….............................. Nel 2.79
 PR-37 Finnish ............................. Nef 2.79 PR-38 Norwegion Net 2.79 PR-39 Mod. Greek .......................................................... 2.79

MULTILINGUA LANGUAGE COURSE

## FRENCH

italian
GERMAN
6.95

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You con now learn to speok French, Italion, Germon or Sponish eosily ond pleosontly in your own home and progress of your own speed. Feotures the new simpllfied foster ond retoin them longer. It is o complete longuoge fourse wh 18 lessons 12 hi imple longuoge course with to lessons on two 12 hifi long playing lessons. You leorn with notive speokers! The recorded ersonk are prinied in on illustrotod canversorion manuol. Also included is a combination of grommar ond dietionory book. When ordering, pleole specify the languoge desired Shpg. Wi., 4lo.
PR-15
Llit 9.95
Net 6.95
4-LANGUAGE COMBINATION COURSE All 4 longuages. French, Ifalion, German ond Sponish, on $8.12^{\prime \prime}$ LP ree ords, 192 lessons, 2 books
P界-16
SPIDERS FOR 45 RPM RECORDS


Flber Spiders, Wt. 3 oz.
MS.47 - Per pkg. of 10
Net. 19
Metal 5piders, Wt. 6 oz
M5-48 - Per pkg. of 10
Net 47

(F)


SPEAKER REDUCING BOARDS (G)
Blonk ponels of highly.finished veneer. Con be cut to suit rour custom requirements. Size: $10^{\prime \prime} \times 18^{\prime \prime} \times 1 / \%^{\circ}$ hict. Shpg. wt.. $21 / 4$ tbs
SB-21 Mohogony Finish
SE-22 8 londe Finish
Se-23 Walnut Finish

## Net

2.25

FINISHED PLYWOOD PANELS (F)
Enobles mounting of smoller speakers in oversize enclosures. Boords ore sturdy $8 / 6$ "plywood, precut io enact S8-18 Adopts $8^{\circ \prime}$ speater to $12^{\prime \prime}$ speoter cobinet or
bome. Wt. I tb. .. Net . 89
S8-19 Adopts $12^{\prime \prime}$ speoter to $15^{\prime \prime}$ speoker cobinel or
bome. Wt. $11 / 2$ ibs.

## HI-FI INSTALLATION•AUDIO AND PHONO ACCESSORIES

## TONE ARM CONTROL



An obsolutoly essential odd thon for every Hi -fi enthu siost. Record, cartridge and needle life will be greatly extended by the use of this tone arm control. Accurately and smoothly ploces tone arm in record runiln groove and lifts orm off record of end of ploy. Ideal for "cueing." Designed 10 fit proctically every known turnioble orm as well as recard changer supplied with both woad and metol maunling screws also supplled with odhesive mounting base which elliminates drilling mounting holes.
MS-S72 TONE ARM CONTROL
.Not-4.25

## FLEXICONE KIT


reduces speaker cone resonance IMPROVES FREQUENCY RESPONSE
Thoroughly tested and opproved, flesicone will improve your speoker sound quolity and frequency response by coftening the outer edges of ise speaker cone thereby is ducing the cone resenance from thio epes. Easily op plied in fust 15 minutes. One three-bottle kit contains enaugh material for lour $8^{\prime \prime}$ spokers. Complete with instructions
.Net 1.76

## ACOUSTIC INSULATION



FIBRE-GLASS A
Excellent sound obsorbing material. For lining interiors of speoker cobinets, consoles, phonos, TV's, ofc. Domps medium and high frequency reverberation and distortion, Sultoble for mony other insiollation purposes. 9 sq. ft ., $\mathrm{I}^{1}$ se-40

Net 1.49
DELUXE BASS REFLEX KIT: 20 square feet. $16^{\prime \prime}$
$\times 16^{\prime} \times 1^{\prime \prime}$. Bonded fibre-glosi. Shpg. wi., 2 lbs.
5月-55
Net 2.70

## TUFFLEX

Sound obsorbing, insulating materiol. Excellent for wse n lining speoker cobinets, rodio-phonograpl, consoles, etc. $1 / 3^{\prime \prime}$ thick. $11^{\prime \prime}$ width only. $7 . f \mathrm{f}$. is the minimum length sold.
$88-28$
Net 1.00
Langer lengths per lool ............... Net "TUFFLEX. Double the thickness of above. Supplied only in $12^{\prime \prime}=18^{\prime \prime}$ sheets
S8-29 .......... Per shoet
Net .39

## NEW! CANE GRILLE CLOTH

Highly ottroctive cone effect on brown plastic bocking. 1 Square Yord length. Shpg. wh., 6 ots. per yd. Nafural stripe crassed by gold llecked white stripe. SG-17 (Fig. C) ................................................ 3.75 SG-18 (Fig. D) Notural cane effect ......... Net 2.85 $18^{\prime \prime} \times 24^{\prime \prime}$ length. Shpe. w1., 4 ons. per rd. Notural stripe crossed by gold flecked white stripe SG-19 (Fig. C) SG-20 (Fig. D) Natural Cane effect ..................Net 1.25

## TEXTILE GRILLE CLOTH

Standard mooker grille cloth in mahogany bockground with geld motif design. 5 hpg . wt., 4 oz.
sह-37 Size $17^{\prime \prime}=12^{\prime \prime}$
58-3 Sire 2* $13^{\prime \prime}$

## MINIATURE HI-FI AUDIO MIXER

With this hondy, mall mixer you can onnounce title before ploying records, mix two high impedance micro ohone inputs or perform ony other mixing operotion where 2 high impedance input chonnels are converted to a single mixed high impedance input channel. Each input channel has its own casy acting leyel cantrol far quiet mising; all mounted in shielded, chrome plated housing. Hos 2 Rlug on output sids. Overall size $2 \% \mathrm{~m}^{\mathrm{w}} 1 \% \mathrm{~mm} \mathrm{mp}$ plug on outpui s.
PK-239 AUDIO MIXER
Net 1.75

AUDIO MIXER-Some quolity and choracteristics os PK. 239 except output is stondard Phone Plug. Size $3 \%$ $1 \%$ " $\times 1 \%^{\prime \prime}$ overoll.
PK-242
Net 1.75

AUDIO MIXER-Some quality and chorocteristics os PK. 239 encept output is stondord Femote Mike Connector Inputs consist of 2 Mole Mike Connectors. Size $2 \%$ ", $1 \%$ " \%"overoll.
PK. 243


NEW! EXCLUSIVE LAFAYETTE STYLOCHRON


Morer pwined by fordy replocement of the needle thon by ony other couse. Now, there is no need to let this hoppen, especiolly to your doubly precious stereo recordings. Lofoyette Stylochron lets you know lust how lang your needle has been in use so that you can reploce the worn needle of the proper time, before it con do damoge to your records. The Stylochron is quickly and eosily mounted on your mofor boord or other convenient place. The moment your record changer or turntoble storts, the Stylochron begins to register. It stops when the furntoble stops. The 1000 hour dial will tell you at ony time how long you hove been using the needle. Dial ony lime how long you hove been using the needic. Dial is morked off in 50 hour units. You con remove your stylus for inspection af ony predetermined number of hours Diameter of the fony or behind ponel. Complete with instructions. Shpg. wl. PK-224

Net 4.95

## LAFAYETTE HIGH FIDELITY STEREO-MONAURAL TEST RECORD

- tests rumble each channet tests level each channel
- TESTS BALANCE TESTS EQUALIZATION STYIUS WEAR TEST
- TESTS RESONANCE

A Laforetto exclusive to help you chech both stereo and monoural systems. For stereo lesting this two-sided $12^{\prime \prime}$ L.P. stereo record has on its stereo side two 1000 cycle bonds to check the level af each channel seporately; balance chock to set the level of each chonnel using special metronome recording; rumble lest. There ore stylus weor lest groaves on both oufor and inner edges of eoch side to sheck both slereo ond manowrol styli. Incorporotes phose odiusting chesk to simplity phosing of speokers. For

in 9 steps from 30 to 15,000 cycles, a confinuaus gllde band from 10 ta 35,000 cycles, to lest for resonances of tone orm or of cobinet. The periodic use of this record to check on your equipment performance will easily poy olf by cotching ony costly deficiencies or by diognosing foults and errors. Also feotures sections of stereo sound effects of iet plones, boot whistles, elc. A terrific value and in must for the HI-FI enthusiost. Comes woth complete


## PLASTIC GRILLE CLOTH

Cholce selection of latest potterns ond beoufiful colors. Acousticloth is made of finest quolity vinyl plastics woven with proper mesh for passege of high frequencie as wall as lows. $34^{\prime \prime}$ wide. I squared yord..d. lengths. Shpe. wl., 8 or
sG-ioffig. A.) Mohogany with gold itripe. SG-11 (Fig. A.) Blonde with mohogany stripe. SG-12 (None) Gold mesh.
SG-13(Fig. B.) Block with gold cabweb. SG-14 (Fig. B.) Mahagony with gold cobweb. SG-21 (Fig. A) Wolnut with gold stripe
$18^{\prime \prime} \times 24^{\prime \prime}$. Shpg, wi., 5 azt.
SG-22 (Fig. A) Mohogany with gold stripe.
SG-22 (Fig. A) Blonde with mohogany stripe
SG-24 (None) Gold mesh
1.25
2.39
3.75
.

PANDAMUS GRILLE CLOTH (D.)
A highly oftractive notural color strow fabric grille cloth that is ideal for mony typet of decor. $27^{\mu \prime}$ wide. Supplied only in 1 yd. lengihs. Shpg. wf., 8 az.
SG- 16
Net per yord 1.55

## ORNAMENTAL GRILLES (E)

Heavy metal perforated grille, beotilully "brushed brats" plated and lacquered with gold hnish effect. For use over cloth or wereening

Net 1.76
Net 3.23
Page 103

## PHONO SPECIALTIES AND ACCESSORIES

5 WATT MKE AND PHONO AMPLIFIER


A compact 5 watt 4 iube amplifier for low powered PA. poging, and phono systems. Has 2 inpuls, one for crystol cartridges and o dual input for either micraphone or varioble reluctance and magnetic cortridges. Has separote gain controls far each input. Compensated tone contral with on-off switch is effective on both inputs. Oufput impedance is 3.2 ohms. Supplied complete with lubes: 2-6J6. $6 A Q 5$ ond $\delta X 4$ rectifier. For IIOV AC aperotion only. Sire: $91 / 2^{\prime \prime} \mathrm{L} \times 41 / 2^{\prime \prime} \mathrm{H} \neq 41 / 2^{2 \prime} \mathrm{D}$. Shpg. $w \mathrm{~F}$., 10 lbs. PA-7

Nef 16.50


## DELVAN RECORD

 CLEANER KIT
## .79

The professional way to keep your records free from dirt and dust that give your records those onnoying
pops ond reduce recard life. One application of the special fluid will keep your records static free for months. Velvet typa pad gets into the grooves to remave all dist. A needle brush is alsa included. The finest record cleoning tit available poday. Shpg. wi., 10 ars. PK-193


## LEKTROSTAT RECORD

 CLEANING KITClean your valuable recards the method. Kit contoins protessional woy with the lettrostal in poirthyien botlle. Squeere to opply for complete liminotion of stofic in the record grooves. Also included is on applicator made of soft ret firm velver. contoined in o novel plastic pouch. Shpg. Wt., 10 az. PK-249

## ELECTROSONIC LAB "DUST BUG"



The "Dust Bug" is designed for special core of yeur vol coble records, to remove dirt ond dust on each ploying. Consists of o light plostic arm which mounts by a suction cup and can be permanently mounted, if desired, by rub. ber cement. The bottle of onti-static cleaning fluid hos o built-in wick for opplication to o brush and pad ot the end of arm which clean your recerd outomoticolly as it plors. Shpg. wf.. 6 oz.
PK-156 Stondord model (A)
ESL CHANGER DUST BUG IBi The fuft Net 5.63 bly clips onto orm of chonger. Pertarms ond ood assem. stondord model. Shoa. wt.. 4 oz
PK. 246 Chonger model (B) DISPENSE OF ACTIVATING FIUIO FOR Ne1 4.65 PK-247

Dust Bugs.
PK-173 Replocement plush pod
PK- 174 Replocement nvlon brush

### 1.76 <br> CLARKSTAN NEEDLE FORCE GAUGE

Checks weight of pickup orm from one grom to 4 ounces. Has 2 scales. plus colibroted dial with $4: 1$ scole multiplier. Shpg. wh., I lb.
PX-72

2.00 Page 104

## WEATHERS STYLUS FORCE GAUGE

Provides a simple, occurate measurement of phonogroph pickup force. All metol construction and it contains no spring. Shpg. wt., 1 lb. WEATHERS P-675 …….......... Net 2.00
|SELECTED RECORD CAREACCESSORIES


ATOMIC DUST-CHASER (A). Offers the lagical woy to UNIVESSAL 4-SPEED NEEDEE (G). Over $80 \%$ discount release dust in the grooves: the elimination af electro- on these fomous brand needles. Offset shank with Universtatic charges with alpha porticles. Clips on pickup orm. sol oll speed 2 mil stylus. Plays oll 3 speeds. On Individ. Extremelr light weight. Shea. wh., 6 az. Net 1.15
PK 109 .

NEEDLE ERUSH (B). Cleons stylus. Use in chongers or with turntobles. Altoches with odhesive pod. Height of PK-107

Net 65 c
WECORD ERUSH (C). Cleans records with brush of soft comel's hair. Snops on tone arm. Improves record life. and protects stylus. Shos. W.. 402. vol cards with monufocturer's nome. Regular resale $\$ 1.50$ Shpg. wt., 3 oz.
PK-21 ............. Singly. e0. 29 c Lots of 10. ea. 26 c
RUAY PHONO NEEDLE (H). Synthetic ruby tipped Uni. versal all speed 2 mil stylus for shuch type phonogrophs. Offset shank provides spring action. Each in plostic cose PK-14

Singly, eo. 69 C lots of 3.e0. 59 c
QECORD CLOTH (1). Removes record static with one wipel Eliminotes noises caused by grip. dust, oshes in graoves - no more "paps" and "elicks." Extends recard life immensely. A necessory liem for those who treasure their precious records. Shpg. wi., 4 ox.
PK-83

## RECORD GRIP MATS

These record grip mats prevent slippage and surfoce rubbing of records stocked in the chonger. Just place them between recards on spindie. Prolangs recard life. Shpg. wi.,


Eliminotes rumble caused by low frequency mechonical vibrotion introduced into phono system by mony record changers and furntobles. Attenuates signols below 50 crcles. With "in" of "our" switch. For crystol or ceramic cortridges. Has flonge for mounting. Size, $4 \%{ }^{\prime \prime}$ L $\times 3 \%{ }^{\text {" }}$ W, $11_{1 "}$ H. Shpg. Wi.. 3 lbs.
PK-148


At lost a precision needle boloncing goge that will never lose ifs accurocy. The simplicity of ifs design eliminotes springs, interocting levers and bars that frequently require odiustment. By plocing the counterweight in the corresponding inder holes it is possible to correctly colibrote the trocking weight of your tone orm.
PK-244 NEEDLE BALANCING GAUGE .........NET . 89


## HI-FI

RECORD COMPENSATOR 3.75

This precisely engineered unit is designed to pravide max.
imum auality from all types of recordings. Provides 5 imum auality from all types of recordings. Provides 5
seltings: LP . AES, Flat, old 78 and new 78 . The deired settings: LP, AES, Flot, old 78 and new 78 . The desired frequency compensotion is selected conveniently wish a
front panel switch. Use with oll types of reluctonce carfront panel switch. Use with oll types of reluctonce car-
iridges. Sizes $4 \%{ }^{*} \times 3 \%$ : $2 \%$ " Deep. For flonge mounting. Shpg. wi., 5 lbs.
PK. 236
Net 3.75


Designed by Weothers to protect your recards from scra tches, these cushions prevent the playing surfoce of your recards from louching anything. Uses groduoled height ridges. Recard is held by ifs blonk outer rim. Shpg. $\mathbf{w t} .11 / 2 \mathrm{lbs}$. ridges. Recard is held by ifs blonk outer rim. Shpg. $\mathrm{wt} ., 11 / 8$ lbs
WEATHERS P-684
Net 2.95
afayette is headuuarytes for phono equipment and accessories

## BRAND NEW GUARANTEED FOR 1 YEAR

 TUBE MANUFACTURERS' ORIGINAL SEALED CARTONS
## SAVE MONEY - BUY IN QUANTITY

BUY 6 TUBES ASSORTED - DEDUCT 10\% FROM NET PRICES BUY 2 TUBES - DEDUCT $5 \%$ FROM NET PRICES

## RCA "MONOGRAM" <br> Now you FACTORY-REBUILT TUBES

average shipping weights for picture tubes

| Size of tube | Avg Shpg Wt | Size of tube | Arg Shpg Wi | Size of tube | Avg Shpg Wi |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $5{ }^{\prime \prime}$ | 5 lbs . | 12" | 17 lbs . | 20 " | 30 lbs . |
| $7{ }^{\prime \prime}$ | 7 lbs . | 14" | 14 lbs. | 21 " | 35 lbs. |
| $8{ }^{\prime \prime}$ | 8 lbs. | 16" | 22 lbs | 23" | 40 lbs . |
| $9 \times$ | 10 lbs . | 17" | 24 lbs . | 24" | 44 libs. |
| $10^{\prime \prime}$ | 14 lbs. | 19" | 26 lbr. | 27" | 45 lbs. |

The size of the picture tube is determined by the first two digits in the type number.
GENERAL ELECTRIC 'PREMIUM' TUBES
A complete line of picture fubes to meet your every need. All ore premium-lested Ginerol Electric lubes excepl t which ore other fomous bronds such os Sylvonio. WestInghouse, CBS Hytron. All Types ore in factory seoled cortons ond are guoronteed both by Lafovelte ond the monulocturer for one full yeor. "Aluminized Screens. When order-

series of foctory rebuilt tubes. Everything hos been reploced except the originol gloss envelope. RCA's high stondords of production ore strictly mointoined in bringing these low-price picture tubes to you. Aluminized Screens. When ordering give slock number ond type. See Chort on this poge for shipping overoge weights.

| Stock No | Type | 14st | Net <br> Eoch | Stock No. | Type | List | Net Eoch |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PT.110X | 10BPAA | 19.00 | 14.06 | PT-142 | 200P4C/CP4D* | 33.50 | 24.97 |
| PT-111x | IOFP4A. | 25.00 | 18.64 | PT-143x | 20HP4A/MP4 | 32.50 | 24.19 |
| PT-112x | $12 \mathrm{KP4A}{ }^{\text {c }}$ | 25.00 | 18.48 | PT-144x | 20MP4D. | 35.50 | 26.48 |
| PT-113x | 121P4A | 21.00 | 15.54 | PT-145 | 21ACP4A/ |  |  |
| PT-114X | 14EP4/CP4/BP4 | 23.00 | 17.18 |  | BSP 4/AMP4A* | 36.50 | 28.06 |
| PT-115 X | $14 \mathrm{HP4}$ | 24.50 | 18.29 | PT.146X | $21 A L P 4 B / A L P 4 A$. | 38.50 | 29.30 |
| PT-116X | 140P4A | 27.50 | 20.44 | PT-147X | $21 \mathrm{AP4}$ | 44.50 | 34.10 |
| PT-117x | $14 \mathrm{RP4}$ | 27.50 | 20.44 | PT-148 P | 21 ATP4A/ATP4* | 38.50 | 29.57 |
| PT-118X | 14RP4A* | 30.00 | 22.44 | PT-149X | 21 AVPA/AVP4 | 36.50 | 27.86 |
| PT-119X 164P4A |  | $30.50 \quad 22.56$ |  |  |  |  |  |
| PT-120X | 160P4A | 27.00 | 20.01 |  | AVP4A/AVP4A. | 39.50 | 30.35 |
| PT-121 P | 16GP48 | 31.00 | 22.88 | PT-152X | 21 AWP4* | 36.50 | 28.13 |
| PT-122X | 161P4A | 28.00 | 20.60 |  | 21AXP224/ 36.50 |  |  |
| PT-123x | 16RP4/KP4 | 24.50 | 17.98 |  |  | 127.00 | 98.50 |
| PT-124X | IGRP4A/KP4A ${ }^{\circ}$ | 27.00 | 19.94 | $\text { PT. } 153 \times$ | 218TP4* | 40.00 | 30.48 |
| PT-125x | 16184 | 24.00 | 17.66 | $\begin{aligned} & \text { PT }-154 X \\ & \text { PT. } 155 X \end{aligned}$ | $21 \mathrm{CBP4A}{ }^{\text {* }}$ | 41.00 | 31.14 |
| PT-126X | 16WP4A | 29.00 | 21.58 |  | 21 CEP4* | 41.50 | 31.78 |
| PT-127X | 17AVP4/ATP4 | 30.00 | 22.78 | $\begin{aligned} & \text { PT-156X } \\ & \text { PT-157X } \end{aligned}$ | 21CYP22* | 127.00 | 98.50 |
| PT-128x | I7AVP4A/ATP4A | 33.00 | 25.06 |  | 21EP4A | 31.50 | 23.74 |
| PT-129X | 17BP4A | 27.00 | 20.48 | $\begin{aligned} & \text { PT }-158 \mathrm{X} \\ & \text { PT. } 159 \mathrm{X} \end{aligned}$ | 21EP48* | 34.50 | 25.70 |
| PT.130X | 78 | 29.50 | 22 |  | 21FP4A | 33.00 | 24.58 |
| PT-131X | 17CP4 | 35.50 | 27.02 | P1.160× 21 FPAC* |  | 36.00 | 26.80 |
| PT-132X | 17GP4 | 37.50 | 28.32 | PT. $161 \times 21 \mathrm{MP} 4$ |  | 46.50 | 35.53 |
| PT-133x | 17HP 4/RP4 | 29.00 | 22.12 | PT-162 21 WP4 |  | 34.00 | 26.30 |
| PT-134X | 17HP4B/RP4C | 32.00 | 24.40 | PT-163×21WP4A* |  | 37.00 | 28.52 |
| PT.135 X | 17LP4/2p4 | 28.75 | 21.59 | PT. $164 \times 21 \times \mathrm{P} \mathrm{AA}^{\text {P }}$ |  | 39.00 | 29.69 |
| PT-136X | 17LP4A/VP48* | 31.75 | 23.81 | PT=165X 21 YP4 |  | 35.00 | 26.88 |
| PT-137 X | 170P4 | 26.75 | 20.21 | PT-166X 21 YP4A* |  | 38.00 | 28.98 |
| PT-138x | 170P4A* | 30.25 | 22.51 | PT.168× 212PdA |  | 33.50 | 25.77 |
| PT-139X | 17TP4 | 37.50 | 28.32 | PT-169X 212P4B* <br> PT-170X 24ADP4/VP4A/ |  | 36.00 | 37.73 |
| PT.140X 19AP48 <br> PT-141X 20DP4A/CP4A |  | 37.00 | 28.00 | CP4A/TP4*PT-171X 24DPAA/YP4. |  | 55.25 | 42.19 |
|  |  | 30.50 | 23.01 |  |  | 57.25 | 43.68 |
| RCA "SILVERAMA" ALL-NEW TUBES <br> The ultimote in picture lube perfection is olfered by RCA in their "Sllveroma" tubes. Thase ore All.New Premium tubes mode ond tested under the high quality slandards of RCA engineers. "Aluminized Screens. When ordering give stock number ond rype. See chart on this page for average shipping weights. |  |  |  |  |  |  |  |
| Stack No. Type |  | 11st | Net Each | Stock No. | Tyoe | List | Net Each |
| PT-20X | STP4* | 78.00 | 57.04 | PT-61X | 19AP4B | 52.50 | 38.59 |
| PT-21X | 7JP4 | 29.50 | 21.69 | $\begin{aligned} & \text { PT-62X } \\ & \text { PT. } 63 x \end{aligned}$ | 20DP4A/CP4A | 44.00 | 32.34 |
| PT-22x | 8DP4 | 32.00 | 23.52 |  | 20DP4C/CP40* | 48.00 | 35.28 |
| PT-23x | 108P4A | 26.50 | 19.48 | $\begin{aligned} & \text { PT. } 63 \mathrm{X} \\ & \text { PT. } 64 \mathrm{X} \end{aligned}$ | 20HP4A/MP4 | 45.50 | 33.45 |
| PT-24X | 10FP4A. | 34.00 | 24.99 | $\begin{aligned} & \text { PT-65x } \\ & \text { PT-66X } \end{aligned}$ | 2OHP40. | 50.00 | 36.75 |
| PT-25x | 12KP4A* | 34.50 | 25.36 |  | 21ACPAA/8SP4/ |  |  |
| PT-26X | 12IP4A | 30.00 | 22.05 | PT-67X | AMP4A. | 49.50 | 36.39 |
| PT-27x | 14ATPA* | 37.00 | 27.19 |  | 2lAlP4B/ALP4A. | 51.50 | 37.86 |
| PT-28X | 14EP4/CP4/BP4 | 31.50 | 23.16 | $\begin{aligned} & \text { PT-68X } \\ & \text { PT- } 69 \mathrm{X} \\ & \hline \end{aligned}$ | 21 AP4 | 60.00 | 44.10 |
| PT-29X | 1AHP4 | 33.50 | 24.63 |  | 21 ATP4A/ATP4* | 52.00 | 38.22 |
| PT-30X | 14QP4A ${ }^{\circ}$ | 38.50 | 28.30 | $\begin{aligned} & \text { PT.70X } \\ & \text { PT.71X } \end{aligned}$ | $21 A V P 4 / A V P 4$ 2IAVP4B/AVPrB/ | 49.00 | $\overline{36.02}$ |
| PT-31X | 14 RP 4 | 37.50 | 27.57 |  |  |  |  |
| PT-32X | $14 \mathrm{RP4A}$ | 41.00 | 30.13 |  | AVAAA/AVPAA* | 53.50 | 39.33 |
| PT-33x | 14WP4/2P4* | 37.50 | 27.57 | PT-72x | 21 WWP4* | 49.50 | 36.39 |
| PT.34X | 15GP22 | 160.00 | 125.44 | $\begin{aligned} & \text { PT.73X } \\ & \text { PT.74X } \end{aligned}$ | 21AXP22A | 160.00 | 125.44 |
| PT-35X | 16APAA | 48.50 | 35.65 |  | 218TP4* | 52.00 | 38.22 |
| PT.36X | 160P4A | 45.50 | 33.45 | PT-75X | $21 C 8 P 4 A *$ | 52.50 | 38.61 |
| PT.37X | 16GP48 | 48.00 | 35.28 | PT-76X | 21 CEP4* | 56.00 | 41.16 |
| PT-38X | 16IP4A | 45.00 | 33.08 |  | $21 \mathrm{CXP} 4^{\circ}$ | 51.00 | 37.49 |
| PT-39X | 16RP4/KP4 | 36.50 | 26.83 | $\begin{aligned} & \text { PT.77X } \\ & \text { PT.78X } \\ & \hline \end{aligned}$ | 21 CyP22 | 160.00 | 125.44 |
| PT-40X | 16RP4A/KPAA. | 40.00 | 29.40 | PT-79X 21DAPS* |  | 56.00 | 41.16 |
| PT-41X | 16TP4 | 36.50 | 26.83 | PT-80X | 21DFP4* | 56.00 | 41.16 |
| PT-42X | 16WP4A | 45.00 | 33.08 | PT-81X | $2101 P 4 *$ | 51.00 | 37.49 |
| PT-43x | 17AVP4/ATP4 | 40.00 | 29.40 | PT-82X | 21EPAA | 46.50 | 34.18 |
| PT-44X | 17AVPAA/ATPAA | 44.00 | 32.34 | 4 PT-83X | 21EP48* | 50.50 | 37.12 |
| PT-45X | 178JP4* | 44.00 | 32.34 | 34 PT-84X | $21 F P 4 A$ | 48.00 | 35.28 |
| PT.46X | 178P4A | 37.00 | 27.19 | $\begin{array}{l\|l} 34 & \text { PT-84X } \\ 19 & \text { PT-85X } \end{array}$ | $21 F P A C \cdot$ | 52.00 | 38.22 |
| PT.47X | ${ }^{178 P 48}{ }^{\circ}$ | 41.00 | 30.13 | $\left.\begin{aligned} & 4 \\ & 3 \end{aligned} \right\rvert\, \text { PT-85X }$ | $21 \mathrm{MP4}$ | 62.50 | 45.94 |
| PT-48X | 1782P4* | 48.50 | 35.65 | $\begin{aligned} & \text { PT-87X } \\ & \text { PT-88X } \end{aligned}$ | 21 WPA | 46.50 | 34.18 |
| PT-49X | 17CDP4* | 48.50 | 35.65 |  | 21 WPAA | 50.00 | 36.75 |
| PJ-50x | $17 \mathrm{CFP4}$ | 44.00 | 32.34 | PT-89X | $21 \times 84{ }^{\text {a }}$ | 52.50 | 38.61 |
| PT.51X | 17CP4 | 47.50 | 34.92 | PT.90x | 21 YP 4 | 47.50 | 34.92 |
| PT-52X | 170KP4 | 52.00 | 38.22 | PT.91X | 21YPAA. | 51.00 | 37.49 |
| PT-53X | 17GP4 | 50.00 | 36.75 | PT.92X | 212P4A | 45.50 | 33.45 |
| PT-54X | 17HP4/RP4 | 39.00 | 28.67 | PT.93X | $212 P 48^{\circ}$ | 49.00 | 36.02 |
| PT-53X | 17HP4B/RPAC* | 43.00 | 31.61 | PT.94X | 24ADP4/VP4A/ |  |  |
| PT-56X | 17IP4/VP4 | 39.50 | 29.04 |  | CP4A/Tp4* | 74.50 | 54.76 |
| PT.57x | 17IPAA/VP4B* | 44.00 | 32.34 | PT-95x | 24AEP4* | 76.00 | 55.86 |
| PT.58X | $17 \mathrm{OP4}$ | 36.50 | $26.83{ }^{\prime}$ | PT-96X | 24AHP4* | 81.50 | 59.51 |
| PT-59X | I7QPAA* | 41.00 | 30.13 | PT-97X | 240P4A/YP4* | 77.00 | 56.59 |
| PT-60X | 175P4 | 51.50 | 37.861 |  |  |  |  |



# RHCमVING LUBAS Authorized Distributors 

BRAND NEW-FRESH STOCK-ORIGINAL BOXED TUBES ARAND NEW FRESH STOCK ORIGINAL BOXED TUBES
 GE, Sylvenio. Wrotre and Westiontoos.

## 12 MONTH GUARANTEE

All receiving tubes are quaranteed for 12 months from date of purchase. We will replace any nube that does not give efficient performance for a full 12 months' period. This of courne does confidence. Dependebility is essured by continual and thorough testing af esech pube in every confidence. Dependability is assured by continual and morough esting

DISCOUNTS UP TO $50 / 10 / 2 \%$

NEW TYPES: Loforette will outomatically stock oll now troes. If you don'I find the troe you noed in this listing. do not hesitate to order h ; we will ship it of our regular low prices
REMACED TIPES: When the original type is no longer ovolloble we will ship the newer, directly interchangeable version.

Tubes may be assorted for quantity prices as shown in price columas. In lots of 50 or mere tubes deduct an addisional $10 \%$ fram the second

| TUEE |  | HET ENCN <br> IH LOTS OF |  | TUEE <br> TTPE | 1187 | WETETM ill LOTS of |  | TEAETYPE LIST | METEIEN IN cots of |  | $\begin{aligned} & \text { TUBE } \\ & \text { TVPE } \end{aligned}$ |  | MET EACH <br> in Lots of |  | $\begin{aligned} & \text { TUEE } \\ & \text { TYPE } \end{aligned}$ | LISt | $\begin{aligned} & \text { MET EACH } \\ & \text { IM LOTS of } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TYPE | 1151 | 1.5 | 6-49 |  |  | 1.5 | $6-49$ |  | 1.5 | 6.49 |  |  | $1-5$ | 6-49 |  |  | $1-5$ | $6-4$ |
| 024 | 2.15 | 1.14 | 1.05 | 306 | 5.75 | 3.04 | 2.81 | 6AF4A 4.00 | 2.12 | 1.96 | 6850 | 3.75 | 1.98 | 1.6 | CEL ${ }^{\text {d }}$ | 3.00 | 1.59 | 1.47 |
| O244 | 2.15 | 1.14 | 1.05 | 30k6 | 2.40 | 1.27 | 1.18 | 6AF6G 3.60 | 1.90 | 1.76 | grus | 2.80 | 1.48 | 1.37 | OESS | 2.80 | 1.48 | 1.37 |
| O246 | 2.35 | 1.24 | 1.15 | 3016 | 2.20 | 1.17 | 1.00 | GAGS 2.60 | 1.37 | 1.27 | 6eve | 3.20 | 1.70 | 1.57 | 6ES* | 4.65 | 2.46 | 2.27 |
| 143 | 3.05 | 1.62 | 1.49 | 31F4 | 4.20 | 2.22 | 2.05 | $64 G 7 \quad 5.60$ | 2.97 | 2.74 | 68W4 | 1.85 | . 98 | . 91 | SEU | 3.15 | 1.67 | 1.54 |
| 1ASGT | 3.20 | 1.70 | 1.57 | 304 | 2.75 | 1.45 | 1.35 | GAMAGT 3.30 | 1.74 | 1.62 | 68W: | 3.30 | 1.74 | 1.62 | GEW6 | 2.30 | 1.22 | 1.13 |
| 1ATGT | 3.70 | 1.96 | 1.11 | 30561 | 3.60 | 1.90 | 1.76 | 64.46 | 2.43 | 2.25 | 68XVGT | 4.00 | 2.12 | 1.96 | GEXE | 5.70 | 3.02 | 2.79 |
| IABS | 5.70 | 3.12 | 2.79 | 354 | 2.45 | 1.29 | 1.20 | $64 \times 5$ | 2.22 | 2.06 | 6Y5GA | 4.20 | 2.22 | 2.06 | GEY6 | 3.00 | 1.59 | 1.47 |
| 1AF4 | 4.45 | 2.35 | 2.18 | 3V4 | 2.35 | 1.24 | 1.15 | 6AK6 2.90 | 1.54 | 1.42 | 68Y6 | 2.35 | 1.24 | 1.15 | 6E2 | 3.80 | 2.01 | 1.6 |
| 1AG4 | 4.25 | 2.25 | 2.00 | 4AU6 | 2.15 | 1.14 | 1.05 | 6AL5 1.85 | . 98 | .91 | 68Y8 | 2.65 | 1.40 | 1.30 | $6 F 5$ | 3.40 | 1.00 | 1.66 |
| lavs | 3.20 | 1.70 | 1.57 | 4 4ecs | 2.35 | 1.24 | 1.15 | GAL7GT 5.75 | 3.04 | 2.11 | 6816 | 2.25 | 1.19 | 1.10 | 6F5GT | 3.10 | 1.64 | 1.52 |
| IAXZ | 3.05 | 1.62 | 1.49 | 4禹 | 4.05 | 2.15 | 1.9 | 6 6M4 5.90 | 3.13 | 2.89 | 6827 | 4.00 | 2.12 | 1.98 | $6 F 6$ | 4.00 | 2.12 | 1.96 |
| 18361 | 2.90 | 1.54 | 1.42 | 4EN6 | 3.05 | 1.62 | 1.49 | 6AME 3.25 | 1.71 | 1.59 | 6178 | 4.25 | 2.25 | 2.05 | $6 F 6 G$ | 3.60 | 1.90 | 1.76 |
| IC5GT | 3.60 | 1.90 | 1.76 | 4807A | 4.00 | 2.12 | 1.96 | GAMEA 3.25 | 1.71 | 1.59 | 6 C 4 | 1.85 | . 98 | . $\dagger$ | 6F6GT | 3.65 | 1.93 | 1.79 |
| 1 10NS | 2.20 | 1.17 | 1.00 | 4858 | 3.85 | 2.04 | 1.89 | GAN4 4.85 | 2.62 | 2.43 | $6 \mathrm{C5}$ | 3.00 | 1.59 | 1.47 | 6F7 | 6.65 | 3.52 | 3.26 |
| 1636T/18361 | 2.90 | 1.54 | 1.42 | 48U8 | 2.80 | 1.46 | 1.37 | GANA 3.50 | 1.65 | 1.71 | 6C5GT | 2.90 | 1.54 | 1.42 | 6FAG | 5.10 | 2.69 | 2.50 |
| $1 \mathrm{H}_{2}$ | 3.05 | 1.62 | 1.49 | 4826 | 2.25 | 1.19 | 1.10 | 64052.15 | 1.14 | 1.05 | 6 C6 | 4.35 | 2.30 | 2.13 | 6FME | 3.00 | 1.59 | 1.47 |
| IHSGT | 3.05 | 1.62 | 1.49 | 4827 | 4.05 | 2.15 | 1.98 | 6A05A 2.15 | 1.14 | 1.05 | 6C86 | 5.10 | 2.69 | 2.50 | GFV6 | 2.75 | 1.45 | 1.35 |
| 113 | 2.90 | 1.54 | 1.42 | $4 \mathrm{4CB}$ | 2.30 | 1.22 | 1.13 | $6406 \quad 2.20$ | 1.17 | 1.08 | 6CA4 | 1.95 | 1.03 | . 96 | 6FV8 | 3.15 | 1.67 | 1.54 |
| 1 KJ | 2.90 | 1.54 | 1.42 | ACE 5/4AG5 | 2.35 | 1.24 | 1.15 | 6APTGT 4.00 | 2.12 | 1.96 | 6CA5 | 2.50 | 1.32 | 1.22 | 6G6G | 4.05 | 2.15 | 1.98 |
| 114 | 2.65 | 1.40 | 1.30 | $4 \mathrm{Cs6}$ | 2.35 | 1.24 | 1.15 | 6AR5 2.60 | 1.37 | 1.27 | 6CB5A | 7.50 | 3.97 | 3.67 | 6GH8 | 3.20 | 1.70 | 1.57 |
| 116 | 3.35 | 1.77 | 1.64 | 4 Cr 5 | 2.85 | 1.51 | 1.40 | GARA 4.35 | 2.30 | 2.13 | 6CB6 | 2.25 | 1.19 | 1.10 | 676 | 3.30 | 1.74 | 1.62 |
| 1144 | 4.45 | 2.35 | 2.16 | 40E6 | 2.50 | 1.32 | 1.22 | 6AS5 2.40 | 1.27 | 1.18 | 6CE6A | 2.25 | 1.19 | 1.10 | 6.5 | 2.95 | 1.56 | 1.44 |
| 1146 | 4.10 | 2.17 | 2.01 | 4016 | 2.20 | 1.17 | 1.08 | GAS $\quad 3.30$ | 1.74 | 1.62 | 6C06G | 5.80 | 3.06 | 2.84 | 6.156\% | 2.55 | 1.35 | 1.25 |
| 1184 | 4.45 | 2.35 | 2.18 | 4ES | 4.65 | 2.46 | 2.27 | 6 ¢76 1.90 | 1.01 | . 93 | 6CO6GA | 5.80 | 3.06 | 2.64 | 6.5 | 2.80 | 1.45 | 1.37 |
| 1165 | 4.05 | 2.15 | 1.91 | 4EW6 | 2.35 | 1.24 | 1.15 | 6 ATE 3.20 | 1.70 | 1.57 | 6CE5 | 2.35 | 1.24 | 1.15 | 616A | 2.80 | 1.41 | 1.37 |
| 1166 | 4.10 | 2.17 | 2.01 | SAMS | 3.30 | 1.74 | 1.62 | 6ATEA 3.20 | 1.70 | 1.57 | 6CE5/68C5 | 2.35 | 1.24 | 1.15 | 657 | 4.35 | 2.30 | 2.13 |
| 1105 | 4.25 | 2.25 | 2.08 | SANE | 3.55 | 1.88 | 1.74 | 6AU4GT 3.35 | 1.77 | 1.64 | 6CFS | 2.55 | 1.35 | 1.25 | 6.5701 | 3.65 | 1.93 | 1.79 |
| ILE3 | 4.25 | 2.25 | 2.04 | SAOS | 2.20 | 1.17 | 1.08 | GAUSGTA 3.35 | 1.77 | 1.04 | 6CG7 | 2.45 | 1.29 | 1.20 | 6xGGT | 2.35 | 1.24 | 1.15 |
| 1165 | 4.05 | 2.15 | 1.97 | 5AS4A | 2.10 | 1.11 | 1.03 | GAUSGT 4.30 | 2.27 | 2.11 | 6CGE | 3.15 | 1.67 | 1.54 | $6 \times 7$ | 4.15 | 2.20 | 2.03 |
| 1 LH 4 | 3.95 | 2.09 | 1.93 | 5ASt | 3.40 | 1.80 | 1.66 | 6avs 2.10 | 1.11 | 1.03 | CCGAA | 3.15 | 1.67 | 1.54 | 6K76 | 3.80 | 2.01 | 1.86 |
| ILNS | 3.95 | 2.09 | 1.97 | SATt | 3.25 | 1.71 | 1.59 | GAUSA 2.10 | 1.11 | 1.03 | 6CH | 3.60 | 1.90 | 1.76 | 6K76GT | 3.75 | 1.98 | 1.44 |
| INSGT | 3.65 | 1.93 | 1.79 | SAU4 | 3.40 | 1.80 | 1.66 | GAU 3.50 | 1.85 | 1.71 | 6CK4 | 2.80 | 1.41 | 1.37 | 6K0 | 4.45 | 2.35 | 2.11 |
| 1PSGT | 3.50 | 1.85 | 1.71 | SAUAA | 3.40 | 1.80 | 1.66 | GAUEA 3.50 | 1.85 | 1.71 | 6CLS | 8.75 | 4.63 | 4.33 | 616 | 6.70 | 3.35 | 3.29 |
| 105GT | 4.05 | 2.15 | 1.94 | SAVE | 4.05 | 2.14 | 1.98 | 6AVEGA 3.80 | 2.01 | 1.86 | 6C16 | 3.75 | 1.91 | 1.84 | 6L6G8 | 4.20 | 2.22 | 2.05 |
| 184/1294 | 3.75 | 1.94 | 1.84 | SAW4 | 2.80 | 1.48 | 1.37 | GAV6 1.65 | .0 | . 80 | 6 CL | 3.15 | 1.67 | 1.54 | 616GC | 4.20 | 2.72 | 2.06 |
| 185 | 2.55 | 1.15 | 1.25 | 5AZ4 | 2.65 | 1.40 | 1.30 | GAWEA 3.55 | 1.88 | 1.74 | 6CLEA | 3.15 | 1.67 | 1.54 | 617 | 4.35 | 230 | 2.13 |
| 152A | 3.00 | 1.59 | 1.47 | 580 | 3.90 | 2.07 | 1.91 | 6AX4GT 2.65 | 1.40 | 1.30 | 6CM6 | 2.55 | 1.35 | 1.25 | 6176 | 4.35 | 2.30 | 2.13 |
| IS4 | 3.65 2.55 | 1.93 | 1.79 | 58E8 | 3.30 | 1.74 | 1.62 | 6AX4GTA 2.65 | 1.40 | 1.30 | ${ }^{6 C M 7}$ | 2.75 | 1.45 | 1.35 | 6N7 | 4.35 | 2.30 | 2.13 |
| 155 | 2.55 | 1.35 | 1.25 | 58K7A | 3.40 | 1.80 | 1.66 | 6AX4GTE 2.65 | 1.40 | 1.30 | ${ }^{6} \mathrm{CM}$ \% | 3.55 | 1.81 | 1.74 | 6N7GT | 4.35 | 2.30 | 2.13 |
| 114 | 2.40 | 1.27 | 1.18 | 5807A | 4.00 | 2.12 | 1.96 | 6AX5GT 2.90 | 1.54 | 1.42 | $6 \mathrm{CN7}$ | 2.60 | 1.37 | 1.27 | 6P5GT | 2.80 | 1.48 | 1.37 |
| 144 | 2.35 | 1.24 | 1.15 | 58R8 | 3.30 | 1.74 | 1.62 | 6AXO 3.50 | 1.85 | 1.71 | 6COE | 3.30 | 1.74 | 1.62 | 607 | 3.70 | 1.96 | 1.81 |
| 145 | 2.05 | 1.09 | 1.00 | 5878 | 3.30 | 1.74 | 1.62 | $6428 \quad 4.20$ | 2.22 | 2.06 | CR6 | 2.40 | 1.27 | 1.18 | 6076 | 3.20 | 1.70 | 1.57 |
| 146 | 3.50 | 1.05 | 1.71 | sawe | 3.40 | 1.00 | 1.66 | 688 | 2.72 | 2.52 | 6 656 | 2.35 | 1.24 | 1.15 | 60767 | 3.20 | 1.70 | 1.57 |
| 1 V | 3.65 | 1.93 | 1.79 | SCGE | 3.20 | 1.70 | 1.57 | 68.6 | 1.06 | . 96 | $6 \mathrm{C57}$ | 2.80 | 1.48 | 1.37 | 6.77 | 3.95 | 2.09 | 1.93 |
| IV2 | 2.00 | 1.06 | .90 | SCLE | 3.15 | 1.67 | 1.54 | 6847 3 3.65 | 1.93 | 1.79 | 6cus | 2.35 | 1.24 | 1.15 | 654A | 2.05 | 1.09 | 1.00 |
| IV6 | 3.90 | 2.07 | 1.91 | SCLEA | 3.15 | 1.67 | 1.34 | 68ABA 3.55 | 1.88 | 1.74 | 6CUS | 4.35 | 2.30 | 2.13 | 657 | 4.60 | 2.43 | 2.25 |
| $1 \times 24$ | 3.05 | 1.62 | 1.49 | SCM | 3.55 | 1.80 | 1.74 | 68C4 4.80 | 2.54 | 2.35 | 6Cus | 3.65 | 1.93 | 1.79 | 6S4GT | 2.75 | 1.45 | 1.35 |
| 2 AB | 6.30 | 3.33 | 3.09 | 5 COP | 3.35 | 1.77 | 1.64 | 68C5 2.30 | 1.22 | 1.13 | 6CX | 3.65 | 1.93 | 1.79 | 65A7 | 3.70 | 1.96 | 1.81 |
| 246 | 3.65 | 1.93 | 1.79 | SC25 | 2.85 | 1.51 | 1.40 | 68 Cl 3.80 | 2.01 | 1.36 | 6 CYS | 2.75 | 1.45 | 1.35 | 6SATGT | 3.25 | 1.71 | 1.59 |
| 297 | 3.65 | 1.93 | 1.79 | SOHO | 4.05 | 2.15 | 1.98 | 68C $\quad 3.95$ | 2.09 | 1.93 | 6 CzS | 2.80 | 1.48 | 1.37 | 651 r 7 | 4.95 | 2.62 | 2.43 |
| 2AF4A | 4.05 | 215 | 1.98 | 5EAP | 3.15 | 1.67 | 1.54 | 6804A 22.35 | 11.04 | 10.95 | 606 | 4.35 | 2.30 | 2.13 | 65 Cl | 3.65 | 1.93 | 1.79 |
| 2AF4 | 4.05 | 2.15 | 1.90 | 5EU8 | 3.20 | 1.70 | 1.57 | 680SGT 4.85 | 2.57 | 2.38 | 608G | 3.50 | 1.35 | 1.71 | 6SF5 | 2.95 | 1.56 | 1.44 |
| 283 | 2.90 | 1.54 | 1.42 | 516 | 2.80 | 1.48 | 1.37 | $6806 \quad 2.30$ | 1.22 | 1.13 | 6DA4 | 2.70 | 1.43 | 1.32 | 6SF5GT | 3.20 | 1.70 | 1.57 |
| 20N4 | 2.55 | 1.35 | 1.25 | 574 | 7.95 | 4.20 | 3.90 | $68 E 6 \quad 2.20$ | 1.17 | 1.08 | 6085 | 2.95 | 1.54 | 1.44 | 6SF7 | 4.30 | 2.27 | 2.11 |
| 28N4A | 2.55 | 1.35 | 1.25 | 578 | 3.40 | 1.60 | 1.66 | $68 F 5$ 3 3.55 | 1.88 | 1.74 | 6DE6 | 2.05 | 1.09 | 1.00 | 6SG7 | 4.30 | 2.27 | 2.11 |
| 2CY5 | 2.80 | 1.46 | 1.37 | 5U46 | 2.00 | 1.06 | . 98 | 6856 | . 95 | . 8 | 60C6 | 2.75 | 1.45 | 1.35 | 6SH7 | 3.85 | 2.04 | 1.89 |
| 2EA5 | 2.80 | 1.48 | 1.37 | SUAGE | 2.10 | 1.11 | 1.03 | 68G6G 6.50 | 3.44 | 3.18 | 60E4 | 2.80 | 1.48 | 1.37 | 6557 | 3.55 | 1.88 | 1.74 |
| 2ENS | 1.85 | . 98 | . 91 | 5U8 | 3.30 | 1.74 | 1.62 | 68G6GA 6.50 | 3.44 | 3.18 | 60E6 | 2.45 | 1.29 | 1.20 | 6SJ7GT | 3.20 | 1.70 | 1.57 |
| 2ERS | 2.90 | 1.54 | 1.42 | 5V3 | 3.65 | 1.93 | 1.79 | 68468 | 1.43 | 1.32 | 6087 | 2.95 | 1.56 | 1.44 | $65 \times 7$ | 3.40 | 1.60 | 1.66 |
| 342 | 3.60 | 1.90 | 1.76 | 5V46A | 3.30 | 1.74 | 1.62 | $68 \mathrm{HB} \quad 3.50$ | 1.85 | 1.71 | 60G6GI | 2.50 | 1.32 | 1.22 | 6SK7GT | 3.05 | 1.62 | 1.49 |
| 343 | 3.40 | 1.80 | 1.66 | 5V6GT | 2.20 | 1.17 | 1.08 | 68.16 | 1.37 | 1.27 | 60K6 | 2.35 | 1.24 | 1.15 | 6SL7GT | 3.30 | 1.74 | 1.62 |
| 3AF4A | 4.05 | 2.15 | 1.98 | 5X46 | 2.95 | 1.56 | 1.44 | 6877 | 1.56 | 1.44 | 60N6 | 6.25 | 3.30 | 3.06 | 6SNTGTE | 2.60 | 1.37 | 1.27 |
| 3 AL5 | 1.85 | . 90 | . 91 | 5X8 | 3.25 | 1.71 | 1.59 | $6810 \quad 2.90$ | 1.54 | 1.42 | 60N7 | 3.50 | 1.05 | 1.71 | 6507 | 3.15 | 1.67 | 1.54 |
| 3 AU6 | 2.15 | 1.14 | 1.05 | 5Y3GT | 1.75 | . 93 | . 6 | $68 \times 4 \quad 7.10$ | 3.75 | 3.48 | 6005 | 7.65 | 4.10 | 3.75 | 6507 GT | 2.70 | 1.43 | 1.32 |
| 3AV6 | 1.75 | . 93 | . 86 | 5Y4GA | 2.35 | 1.24 | 1.15 | 68K5 3.50 | 1.85 | 1.71 | 6006A | 4.15 | 2.20 | 2.03 | 6587 | 2.95 | 1.56 | 1.44 |
| 382 | 6.25 | 3.30 | 3.06 | 5Y4GT | 2.35 | 1.24 | 1.15 | $68 \times 7$ A 3.40 | 1.60 | 1.66 | 6027 | 2.95 | 1.56 | 1.44 | 6557 | 3.85 | 2.04 | 1.89 |
| 387 | 6.85 | 3.63 | 3.35 | 523 | 3.05 | 1.62 | 1.49 | $68 \times 78 \quad 3.35$ | 1.71 | 1.64 | 6055 | 2.65 | 1.40 | 1.30 | 657 | 3.05 | 1.62 | 1.49 |
| 38A6 | 2.15 | 1.14 | 1.05 | 524 | 4.95 | 2.62 | 2.43 | 6814 6.50 | 3.44 | 3.18 | 6075 | 2.95 | 1.56 | 1.44 | 614 | 4.35 | 2.30 | 2.13 |
| 38C5 | 2.30 | 1.22 | 1.13 | 647 | 4.60 | 2.43 | 2.25 | 6817GTA 3.95 | 2.09 | 1.93 | 6076 | 2.15 | 1.14 | 1.05 | 67 | 3.35 | 1.77 | 1.64 |
| 38E6 | 2.25 | 1.19 | 1.10 | 6AB | 5.25 | 2.64 | 2.47 | $68 \mathrm{~N} 4 \quad 2.50$ | 1.32 | 1.22 | 6DTE | 3.75 | 1.90 | 1.44 | Gtea | 3.35 | 1.77 | 1.64 |
| 32N4 | 2.55 | 1.35 | 1.25 | 6AEG | 4.75 | 2.51 | 2.33 | 6 ON4A 2.50 | 1.32 | 1.22 | 60ws | 3.05 | 1.62 | 1.49 | 6U5 | 3.20 | 1.70 | 1.57 |
| 38N6 | 3.00 | 1.59 | 1.47 | GABGT | 4.75 | 2.51 | 2.33 | $68 N 6$ | 1.59 | 1.47 | $6 E 5$ | 3.00 | 1.59 | 1.47 | 6Us | 3.30 | 1.74 | 1.62 |
| 3848 | 2.80 | 1.48 | 1.37 | 6AE4 | 2.15 | 1.14 | 1.05 | 68N 2.70 | 1.43 | 1.32 | GEA5 | 2.80 | 1.48 | 1.37 | 6U8A | 3.30 | 1.74 | 1.62 |
| 38 Y 6 | 2.35 | 1.24 | 1.15 | 6AB5/6NS | 3.70 | 1.96 | 1.81 | 6805 2.35 | 1.24 | 1.15 | 6EAT | 3.50 | 1.85 | 1.71 | 6V3A | 4.35 | 2.30 | 2.13 |
| 3826 | 2.30 | 1.22 | 1.13 | $64 B 7$ | 5.50 | 2.91 | 2.20 | G8REGA 4.35 | 2.30 | 2.13 | GEAB | 3.15 | 1.67 | 1.54 | 6VS | 4.80 | 2.54 | 2.35 |
| $3 C 86$ | 2.25 | 1.19 | 1.10 | GACSGT | 4.35 | 2.30 | 2.13 | 6ROSGTE/4CU 4.35 | 2.30 | 2.13 | 6E85 | 2.75 | 1.45 | 1.35 | 6VSGT | 2.15 | 1.14 | 1.05 |
| 3CE5/38C5 | 2.35 | 1.24 | 1.15 | 6407 | 4.65 | 2.46 | 2.27 | 6806GTA 4.35 | 2.30 | 2.13 | GEBA | 3.70 | 1.96 | 1.11 | 6VGGTA | 2.20 | 1.17 | 1.05 |
| 3 CF 6 | 2.55 | 1.35 | 1.25 | 64076 | 5.90 | 3.13 | 2.18 | $6807 \mathrm{~A} \quad 3.95$ | 2.09 | 1.93 | 6EM5 | 2.35 | 1.24 | 1.15 | SVE | 3.95 | 2.09 | 1.93 |
| 3 Cs 6 | 2.40 | 1.27 | 1.15 | 6AF3 | 2.80 | 1.48 | 1.37 | $68 \mathrm{EA} \quad 3.30$ | 1.74 | 1.62 | GEM | 3.15 | 1.67 | 1.54 | SW4GT | 2.40 | 1.27 | 1.18 |
| 3 Cr 5 | 2.85 | 1.51 | 1.40 | 6AF4 | 4.00 | 2.12 | 1.96 | 68 ReA 3.30 | 1.74 | 1.62 | 6EMS | 3.05 | 1.62 | 1.49 | 6WSGT | 2.85 | 1.51 | 1.40 |

RECEIVING TUBES (cont.)

| TUBE | $\begin{aligned} & \text { MET EACH } \\ & \text { IN LOTS OF } \end{aligned}$ |  |  | TUBE | NET EACH IN LOTS OF |  |  | TUEE | $\begin{aligned} & \text { MET EACH } \\ & \text { IM LOTS OF } \end{aligned}$ |  |  | TUBE | MET EACHIN LOTS OFH1st |  |  | TUBE TYPE | 115 | $\begin{aligned} & \text { MET EACH } \\ & \text { IM LOTS OF } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TrPE | LIST | 1.5 | 6-49 | TYPE | LIST | 1.5 | 6-49 | TrPE | L15t | 1.5 | -49 | TYPE |  |  |  |  |  |  |
| $6 \times 4$ | 1.65 | . 87 | 80 | 100E7 | 2.95 | 1.56 | 1.44 | 1204 | 2.75 | 1.45 | 1.35 | 13017 | 3.00 | 1.59 | 1.47 |  | 3526G | 2.90 | 1.54 | 1.42 |
| $6 \times 56 T$ | 2.05 | 1.09 | 1.00 | 10EG7 | 3.15 | 1.67 | 1.54 | 12085 | 2.75 | 1.45 | 1.35 | 130R7 | 3.00 | 1.59 | 1.47 | 26 | 4.35 | 2.30 | 2.13 |
| $6 \times 8$ | 3.15 | 1.67 | 1.54 | 11 Cry | 3.00 | 1.59 | 1.47 | 120E8 | 3.35 | 1.77 | 1.64 | 14A4 | 3.95 | 2.09 | 1.93 | 27 | 4.35 | 2.30 | 2.13 |
| OYGG | 4.50 | 2.38 | 2.20 | 1244 | 2.55 | 1.35 | 1.25 | $120 \mathrm{F7}$ | 2.60 | 1.37 | 1.27 | 14AS | 5.85 | 3.10 | 2.87 | 32E TS | 2.20 | 1.17 | 1.08 |
| 6YGGA | 3.45 | 1.82 | 1.69 | 1246 | 4.35 | 2.30 | 2.13 | 120k7 | 2.85 | 1.51 | 1.40 | 1447 | 3.50 | 1.85 | 1.71 | 35/51 | 4.35 | 2.30 | 2.13 |
| 6YSGT | 3.45 | 1.82 | 1.69 | 12A8G | 4.75 | 2.51 | 2.33 | 12018 | 4.05 | 2.15 | 1.98 | 14aft | 3.80 | 2.01 | 1.86 | 35A5 | 3.50 | 1.05 | 1.71 |
| $7{ }^{74}$ | 3.25 | 1.71 | 1.59 | 12ABGT | 4.75 | 2.51 | 2.33 | 12006A | 4.20 | 2.22 | 2.06 | 1486 | 3.30 | 1.74 | 1.62 | 3585 | 2.65 | 1.40 | 1.30 |
| 7A4/XXL | 3.25 | 1.71 | 1.59 | 12AB5 | 2.45 | 1.29 | 1.20 | 12007 | 3.30 | 1.74 | 1.62 | 1488 | 3.00 | 1.80 | 1.76 | $35 C 5$ 35028 | 2.15 3.10 | 1.14 | 1.05 1.52 |
| $7{ }^{\text {a }}$ | 3.85 | 2.04 | 1.89 | 12AC6 | 2.20 | 1.17 | 1.08 | 12057 | 3.40 | 1.80 | 1.66 | 14 Cs | 4.05 3.35 | 2.15 1.77 | 1.98 1.64 | 35028 3516Gt | 3.10 2.40 | 1.17 | 1.52 1.18 |
| 746 | 3.15 | 1.67 | 1.54 | 12406 | 2.40 | 1.27 | 1.18 | 12015 | 3.05 | 1.62 | 1.49 | $14 \mathrm{C7}$ | 3.35 | 1.77 | 1.64 | 35L6G |  |  | 1.18 |
| 747 | 3.50 | 1.85 | 1.71 | 12AE6 | 2.05 | 1.09 | 1.00 | 12018 | 3.75 | 1.98 | 1.84 | E 6 | . 95 | . 09 | 93 | 35 W 4 | 1.40 | . 74 | 69 |
| 7AB | 4.45 | 2.35 | 2.18 | i2aEba | 2.05 | 1.09 | 1.00 | 12007 | 3.15 | 1.67 | 1.54 | 14F7 | 3.85 | 2.04 | 1.89 | 35 Y 4 | 2.75 | 1.45 | . 35 |
| 7 AD7 | 6.45 | 3.41 | 3.15 | 124ET | 3.55 | 1.68 | 1.74 | $120 \mathrm{V7}$ | 2.75 | 1.45 | 1.35 | 14F8 | 4.60 | 2.43 | 2.25 | 3523 | 2.75 | 1.5 | 1.35 |
| 7AF7 | 3.85 | 2.04 | 1.89 | 12AF3 | 2.90 | 1.54 | 1.42 | 120V8 | 3.55 | 1.88 | 1.74 | $14 \mathrm{H7}$ | 4.10 | 2.17 | 2.01 | 352469 | 2.85 | 1.24 | 1.15 |
| 7AG7 | 3.85 | 2.04 | 1.69 | 12AFS | 2.25 | 1.19 | 1.10 | 120Y8 | 3.55 | 1.88 | 1.74 | 1487 | 5.1 | 2.69 | 2.50 | 352561 | + 85 |  | . 13 |
| 7amp | 3.85 | 2.04 | 1.89 | .12AF8 | 2.35 | 1.24 | 1.15 | 12026 | 2.50 | 1.33 | 1.22 | 14 N 7 | 3.80 | 2.01 | 1.06 | 36 | 4.35 | 2.30 | . 13 |
| 7AU7 | 2.60 | 1.37 | 1.27 | +2AH7GT | 3.80 | 2.01 | 1.86 | 12EA6 | 2.65 | 1.40 | 1.30 | 1407 | 4.10 | 2.17 | 2.01 | ${ }_{37}$ | . 30 |  | . 8.8 |
| 784 | 3.05 | 1.62 | 1.49 | 12A16 | 2.05 | 1.09 | 1.00 | 12 ECB | 3.30 | 1.74 | 1.62 | $14 \mathrm{R7}$ | 5.15 | 2.72 | 2.52 |  | 4.35 | 2.01 | 1.86 2.13 |
| 785 | 4.75 | 2.51 | 2.33 | 12AL5 | 1.90 | 1.01 | . 93 | 12EDS | 2.50 | 1.32 | 1.22 | 1457 | 4.60 | 2.45 | 2.25 | 4011 | 4.50 | 2.31 | 2.13 2.20 |
| 786 | 3.25 | 1.71 | 1.59 | 12AL8 | 4.25 | 2.25 | 2.08 | 12EG6 | 2.30 | 1.22 | 1.13 | 14W7 | 4.75 | 2.51 | 2.33 |  | 4.50 | 2.36 | 2.20 |
| 787 | 3.30 | 1.74 | 1.62 | 12405 | 2.60 | 1.37 | 1.27 | t2EMS | 2.35 | 1.24 | 1.15 | 1497 | 3.80 | 2.01 | 1.86 | 40 | 4.50 | 2.38 | 1.70 |
| 788 | 3.55 | 1.88 | 1.74 | 12A16 | 1.85 | . 98 | . 91 | 12EK6 | 2.50 | 1.32 | 1.22 | 14 Y 4 | 3.50 | 1.85 | 1.71 | 41 | 3.50 | 1.85 | 1.71 |
| 7 Ca | 5.00 | 2.65 | 2.45 | 12AT7 | 3.05 | 1.62 | 1.49 | 12 E 6 | 1.75 | . 93 | 86 | 17arsga | 3.85 | 2.04 | 1.89 | 42 | 3.50 | 1.85 | 71 |
| 765 | 3.35 | 1.77 | 1.04 | 12all | 2.15 | 1.14 | 1.05 | 12EM6 | 2.90 | 1.54 | 1.42 | 17axagi | 2.70 | 1.43 | 1.32 | 43 | 4.70 | 2.49 | 2.30 |
| $7 \mathrm{C6}$ | 3.30 | 1.74 | 1.62 | $12 \mathrm{AU7}$ | 2.45 | 1.29 | 1.20 | 12EN6 | 3.05 | 1.62 | 1.49 | 1780GIB | 4.60 | 2.43 | 2.25 | 46 | 4.65 | 2.46 | 2.27 |
| 7 C 7 | 3.05 | 1.62 | 1.49 | 12AU7A | 2.45 | 1.29 | 1.20 | 12F5GT | 3.15 | 1.67 | 1.54 | 1765 | 2.35 | 1.24 | 1.15 | 47 | 70 | . 61 | 4.26 |
| 7E5 | 4.05 | 2.15 | 1.98 | 12AVSGA | 3.85 | 2.04 | 1.89 | 12 Fs | 2.85 | 1.51 | 1.40 | 1704 | 2.75 | 1.45 | 1.35 | S0A1 | 4.95 | 2.62 | 1.43 |
| 7E6 | 4.05 | 2.15 | 1.98 | l2av6 | 1.65 | . 87 | . 80 | 12 FK 6 | 2.10 | 1.11 | 1.03 | 170E4 | 2.85 | 1.51 | 1.40 | 5045 | 3.95 | 2.09 | 93 |
| 757 | 4.45 | 2.35 | 2.18 | 12AV7 | 3.20 | 1.70 | 1.57 | 12 FM 6 |  | 1.09 | 1.00 | 17006 | 4.20 | 2.22 | 2.06 | 5085 | 2.65 | 1.40 | 1.30 |
| TEY6 | 3.00 | 1.59 | 1.47 | 12awb | 3.00 | 1.59 | 1.47 | 12Fmb | 2.05 | 1.09 | 1.00 | 17H3 | 2.15 | 1.14 | 1.05 | 50 C | 2.15 | 1.14 | 1.05 |
| 777 | 3.65 | 1.93 | 1.79 | 12AXAGTA | 2.70 | 1.43 | 1.32 |  |  |  |  | 1795 | 2.60 | 1.37 | 1.27 | 500CA | 1.55 | . 82 | .76 1.13 |
| 7 Fs | 4.60 | 2.43 | 2.25 | 12AX4GTS | 2.70 | 1.43 | 1.32 | $12 \mathrm{H6}$ | 3.05 | 1.62 | 1.49 | 18AS | 4.10 3.00 | 2.17 | 2.01 | SOEHS S0L6GT | 2.30 2.40 | 1.22 1.27 | 1.18 |
| $7 \mathrm{G7}$ | 4.00 | 2.12 | 1.96 | 12ax] | 2.55 | 1.35 | 1.25 | 12 J 5 | 2.80 | 1.48 | 1.37 | 18FW6 | 2.00 | 1.14 | 1.98 | ${ }_{50 \times 6}$ | 3.20 | 1.70 | 1.57 |
| 7H7 | 3.90 | 2.07 | 1.91 | 12AX7a | 2.55 | 1.35 | 1.25 | 12 J GT | 2.70 | 1.43 | 1.32 | İfY6 | 1.65 | . 7 | . 6 | SOY'GT | 2.95 | 1.56 | 1.4 |
| 78 | 5.17 | 2.72 | 2.52 | 12ar7 | 5.00 | 2.65 | 2.45 | 12 JTGT | 4.20 | 2.22 | 2.06 | 19AV4 | 3.50 | 1.85 | 1.71 | sor7 GT | 3.05 | 1.62 | 1.42 |
| $7 \mathrm{K7}$ | 4.45 | 2.35 | 2.18 | 12AZ7 | 2.75 | 1.45 | 1.35 | 12J8 | 3.30 | 1.74 | 1.62 | lialuagia | 3.45 | 1.82 | 1.69 | 55 | 4.35 | 2.30 | 2.13 |
| 75 | 4.25 | 2.25 | 2.08 | 12az7a | 2.75 | 1.45 | 1.35 | 12k5 | 2.75 | 1.45 | 1.35 | 19AG6G | 6.50 | 3.44 | 3.18 | 57 | 4.35 | 2.30 | 2.13 |
| 7N7 | 3.40 | 1.80 | 1.66 | 1284A | 2.70 | 1.43 | 1.32 | $12 \mathrm{K7GT}$ | 4.05 | 2.15 | 1.98 | $190 \mathrm{G6G}$ - | 6.50 6.50 | 3.44 | 3.18 | 70L7GT | 10.15 | 5.37 | 4.97 |
| 707 | 4.10 | 2.17 | 2.01 | 12846 | 2.00 | 1.06 | . 98 | 12KE | 5.25 | 2.68 | 2.47 | 198G6GA | 6.50 4.45 | 2.35 | 2.18 | 714 | 5.10 | 2.69 | 2.50 |
| 787 | 5.15 | 2.72 | 2.52 | 12 BA 7 | 3.95 | 2.09 | 1.93 |  |  |  |  |  |  |  |  |  |  |  |  |
| 757 | 4.75 | 2.51 | 2.33 | 12806 | 2.25 | 1.19 | 1.10 | 12L6GT | 2.50 | 1.32 | 1.22 | 1916 | 3.15 | 1.67 | 1.54 | 75 | 5.10 | 2.69 2.69 | 2.50 2.50 |
| 7V7 | 4.65 | 2.46 | 2.27 | 12856 | 2.15 | 1.14 | 1.05 | $12076 T$ | 3.30 | 1.74 | 1.62 | 1978 | 3.35 3.90 | 1.87 2.07 | 1.04 | 78 80 | 2.90 | 1.54 | 1.42 |
| 7w7 | 4.75 | 2.51 | 2.33 | 12856 | 2.10 | 1.11 | 1.03 | 12 L | 2.60 | 1.37 | 1.87 | 19V8 | 3.90 | 1.96 | 1.91 | 83 | 3.25 | 1.71 | 1:59 |
| 7x6 | 3.30 | 1.74 | 1.62 | 128474 | 3.05 | 1.62 | 1.49 | 12547 | 3.70 3 | 1.96 | 1.81 | $19 \times 8$ 11EX6 Lef |  | 2.94 | 2.72 | 84/624 | 2.70 | 1.43 | 1.32 |
| 7X7 | 5.85 | 3.10 | 2.87 | 128 K 5 | 3.80 | 2.01 | 1.86 | $125 A 7 G T$ | 3.25 | 1.71 | 1.78 | 21EX6 | 4.55 |  | 2.03 | 85 | 4.35 | 2.30 | 2.13 |
| 7Y4 | 2.75 | 1.45 | 1.35 | 12816 | 2.30 | 1.22 | 1.13 | $125 C 7$ | 3.65 3.05 | 1.93 | 1.79 | 24A 75 VGGA | 4.25 | 2.25 2.25 | 2.08 | 89 | 4.35 | 2.30 | 2.13 |
| 124 | 2.75 | 1.45 | 1.35 | 128N6 | 3.05 | 1.62 | 1.49 | 12SF5 | 3.05 | 1.62 | 1.49 | 25AX4GA | 4.25 | 2.25 | 1.42 |  |  |  |  |
| 8 AUB | 3.55 | 1.88 | 1.74 | 12806GA | 4.45 | 2.35 | 2.18 | 1255561 | 3.20 | 1.70 | 1.57 | $25 A X 46 T$ $258 K 5$ | 2.95 | 1.54 | 1.72 | 117M7GT |  | 5.37 | 4.97 |
| sawba | 3.70 | 1.96 | 1.81 | 12806GTa | 4.45 | 2.35 | 2.18 | 12557 | 4.25 | 2.30 | 2.13 | 258k5 | 3.65 4.60 |  | 2.25 | 117 NTGT |  | 4.92 | 4.56 |
| abasa | 3.65 | 1.93 | 1.79 | $12806518 / 12005$ | 4.45 | 2.35 | 2.18 | 12567 | 4.05 | 2.15 | 1.98 | 25.0.6a | 4.60 |  |  | 112NJGT |  |  |  |
| 8 8H8 | 3.55 | 1.88 | 1.74 | 128郎 | 2.60 | 1.37 | 1.27 | 125H7 | 4.00 | 2.12 | 1.96 | 25806GT | 4.60 | 2.43 | 2.25 | 117P7GT | 9.30 | 4.92 | 4.56 |
| BEN8 | 2.95 | 1.56 | 1.44 | $128 \mathrm{v7}$ | 3.05 | 1.62 | 1.49 | 12587 | 3.55 | 1.88 | 1.74 | 2500cc1/\%scus | 4.60 | 2.43 | 2.25 | 11723 | 2.50 | 1.32 | 1.22 |
| 8805 | 2.40 | 1.27 | 1.18 | 128W4 | 1.75 | . 93 | . 86 | 12557 GT | 3.20 | 1.70 | 1.57 | 25 CS | 2.15 | 1.14 | 1.05 | 11726 GT | 4.40 | 2.33 | 2.16 |
| 8 CG7 | 2.50 | 1.32 | 1.22 | $128 Y 74$ | 3.05 | 1.62 | 1.49 | 125k7 | 3.40 | 1,80 | 1.66 | $25 C A 5$ | 2.50 | 1.32 | 1.22 | 5642 5879 | 5.00 | 2.65 | 1.89 |
| SCM7 | 2.85 | 1.51 | 1.40 | 12827 | 3.05 | 1.62 | 1.49 | 125K7GT | 3.05 | 1.62 | 1.49 | 25CD6G | 5.85 | 3.10 | 2.89 | 5879 | 3.85 | 3.30 | 3.07 |
| $8 \mathrm{CN7}$ | 2.60 | 1.37 | 1.27 | 12Cs | 2.35 | 1.24 | 1.15 | 12517 GT | 3.75 | 1.98 | 1.4 | ${ }^{2} \times$ cuo | 4.60 | 2.10 2.43 | 2.25 | 6973 | 6.5 | 2.38 | 2.20 |
| 8C57 | 2.95 | 1.56 | 1.44 | 12C5/12CU5 | 2.35 | 1.24 | 1.15 | 12SNGT | 2.70 | 1.43 | 1.32 | 2506/7580661 | 4.60 | 2.43 | 2.25 | ${ }^{6973}$ | 4.85 | 1.56 | 1.44 |
| 8 CX 8 | 3.70 | 1.9 | 1.81 | 12C: | 6.20 | 3.28 | 3.04 | 12SN7GTA | 2.70 | 1.43 | 1.32 | 250N6 | 5.55 | 2.94 | 2.78 | 7025 | 2.85 50 | 2.88 | 2.47 |
| bese | 3.75 | 1.98 | 1.84 | 12 CAS | 2.50 | 1.32 | 1.12 | $12 \mathrm{sa7}$ | 3.15 | 1.67 | 1.30 | 25EC6 | 2.30 | 1.22 | 1.13 | $7027 A$ | 5.25 | 2.60 | 2.47 |
| BEMS | 3.10 | 1.64 | 1.52 | 12CN5 | 2.25 | 1.19 | 1.10 | 12507 GT | 2.65 | 1.40 | 1.30 | 2SEHS | 2.30 | 1.22 | 1.13 | 7027 a |  |  |  |
| SANTGTE | 2.65 | 1.40 | 1.30 | 12CR6 | 2.40 | 1.27 | 1.18 | 12S87 | 3.05 | 1.62 | 1.49 | 25 F5 | 2.35 | 1.24 | 1.15 | 7167 | 3.85 | 2.04 |  |
| 9AU7 | 2.60 | 1.37 | 1.77 | 12Cs6 | 2.20 | 1.17 | 1.08 | 12 V | 2.50 | 1.32 | 1.22 | 2516 | 6.40 | 3.39 | 3.14 | 7189 | 3.60 | 1.90 | 1.76 |
| 987 | 2.65 | 1.40 | 1.30 | 12 CTB | 4.05 | 2.15 | 1.96 | 12V6GT | 2.15 | 1.14 | 1.05 | 2516GT | 2.25 | 1.19 | 1.10 1.32 | 7199 7247 | 3.30 3.85 | 1.76 | 1.40 |
| 9 Cl | 3.15 | 1.67 | 1.54 | 12Cus/12C5 | 2.35 | 1.24 | 1.15 | 12W6GT | 3.00 | 8.59 | 1.47 | 25W4GT | 2.70 | 1.63 | 1.32 | 7247 |  |  |  |
| \%usa | 3.30 | 1.74 | 1.62 | 12CU6 | 4.45 | 2.35 | 2.18 | $12 \times 4$ | 1.90 | 1.01 | . 93 | 2525 | 2.90 | 1.54 | 1.42 |  |  |  |  |
| 10 CB | 4.25 | 2.25 | 2.05 | 12CX6 | 2.50 | 1.32 | 1.22 | 1213 | 3.50 | 1.6 | 1.71 | 2525 | 2.90 | 1.54 |  |  |  |  |  |

## JR. TUBE CADDY



Here's a reol volue in Holds up to 143 tubes. Unique breal - owoy thing quickly avail able. Has compartment designed for corrying instruments and lare rools and a 3 section comportmem for smor or rools. wire solder

Partablo CRT (8YP4), compoct, light univer-
sal $110^{\circ}$ check tube. Features outomatic self-focusing and a non-ion irap construc-self-focusing and a non-ion irap construc-
lion. 5 mply connected, sofe without externol conductive comting. Accossory socket odoplor and plastic cross-hatch permit test. ing all $110^{\circ}$ receivers. Can be used to check 8.4 V with $6.3 \mathrm{~V} .600 \mathrm{ma}, 6.3 \mathrm{~V}-450 \mathrm{ma}$ or about 2 lbs. In pratective corrying cortan SYLVAMIA BYP4 $110^{\circ}$ CHECK CRT

Premium quality tubes far minimum noise, and least possible feed bock. Law lass, long life, and the widest frequency response. They are widely used by Hi-Fi equipment monufociurers. The critical audiophile is now usis. These are precisely balanced for ivpes. Several ypes are avoilable in malched pirectly interchongeoble with equivalent
types listed.

| TUEE TYPE | EQUIV. TYPE | $\begin{aligned} & \text { MET } \\ & \text { EACH } \\ & \hline \end{aligned}$ | TUPE TYPE | $\begin{aligned} & \text { EOUIV. } \\ & \text { TYPE } \end{aligned}$ | $\begin{aligned} & \text { MET } \\ & \text { EACN } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DM70 | 1 M3 | 1.05 | EK90 | 68E6 | 1.23 |
| EABCBO | 6AX8 | 1.92 | E134 | 6 CA7 | 3.36 |
| E891 | 6 Al5 | . 95 | EL34 (M.P.) | 6 CA7 | 7.25 |
| Escoo | 6AT6 | 1.01 | EL37 | 5881-616 | 3.11 |
| E8C91 | 6AV6 | . 87 | El37 (M.P.) | 5881.616 | 6.75 |
| E8F89 | $60 C 8$ | 1.76 | El38 | 6 CN6 | 3.68 |
| ECOO | $6 \mathrm{C4}$ | 1.58 | EL84 | 6805 | 1.25 |
| EC95 | 6ERS | 1.89 | ELEA (M.P.) | 6805 | 2.84 |
| ECC33 |  | 2.60 | EL86 | 6CW5 | 1.55 |
| ECCs | 12477 | 1.55 | E190 | 6AOS | 1.17 |
| ECCE2 | 12407 | 1.28 | EM81 | 6DA5 | 1.41 |
| ECC83 | $12 \mathrm{Ax7}$ | 1.28 | EM84 | 6FG6 | 1.41 |
| ECCes | 6408 | 1.41 | EZ80 | 6 V 4 | . 81 |
| ECC91 | 616 | 1.44 | E281 | 6 CA 4 | 1.14 |
| ECFAO | 6818 | 2.06 | E290 | $6 \times 4$ | . 87 |
| ECF82 | 648 | 1.71 | G232 |  | 1.95 |
| ECH81 | 6A8 | 1.85 | G234 | 5V4GB | 2.28 |
| ECL82 | 6BM8 | 1.62 | HBC90 | $12 A T 6$ | 1.01 |
| EF86 | 6267 | 1.35 | H8C91 | 12 AV 6 | . 87 |
| EF93 | 68A6 | 1.08 | HF93 | 128 A 6 | . 98 |
| EF94 | GAUS | 1.08 | HK90 | 128 E ( | 1.14 |
| EF95 | 6AK5 | 2.43 | HY90 | 35WX | . 74 |

covering measures $154, \mathrm{w}$ W W $12 \% / \mathrm{N}^{\mathrm{N}} \mathrm{H}$

NEW! SYLVANIA $110^{\circ}$ PORTABLE CHECK CRT

## HIGH FIDELITY TUBES MULLARD



## SPECIAL PURPOSE TUBES

RCA－GE－RAYTHEON－SYLVANIA AMPEREX－MACHLETT－CBS－EIMAC CHATHAM－WESTINGHOUSE

| TYPE | Net | TYPE | Net | PE | Net | TYPE | TYPE Net | TYPE | Net | TYPE Net | TYPE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1／5632 |  | ${ }^{4 \times 1}$ |  | 629 |  |  | 5727／2021m ${ }^{\text {2 }}$ |  |  |  |  |  |
| 1／5 |  |  |  |  |  |  | 5728 | 7 |  | ／on2．wn 4.45 |  |  |
|  | 28．90 | ${ }_{5 \times 1}{ }_{\text {S APP }}$ | 29.7 | ${ }^{6372 A}$ | 36．85 | 1946 | S736 <br> 5736 <br> 170. | ${ }_{611} 6$ | 220.0 | ${ }^{56550}$ |  |  |
| c6ja／ 568 | 29.30 |  | 36.4 | ${ }^{673}$ | 20.15 | 1947 15． 15 | $5780 \quad 209.0$ |  | 52. | 6661／68 |  |  |
| $\mathrm{O}_{012}$ | 1.26 <br> 3.65 |  | 29．85 | 678 877 | Sis． 5 |  | 5749／6日asw ${ }_{\text {2 }}^{2} \mathbf{2 . 0 5}$ | c20 | 2．75 | ${ }^{6662 / 68 J 5} \quad 1.26$ | 7046 |  |
| OA3 | 1.27 | Scpri－A | 31.50 | ${ }^{\text {c }}$ 678 | 47.00 | 2030 $\quad 15.00$ |  | $\begin{array}{r}6202 \\ 6203 \\ \hline 203\end{array}$ | 2．85 |  | ${ }^{7054}$ | 1．45 |
| OAS ${ }_{\text {OAS }}$ | $\underset{6.96}{1.68}$ |  | 45.00 41.60 | 2．720 | 2.95 10.90 | 20022  <br> 2039 41.650 .500 |  | －205 | $\begin{array}{r} 8.10 \\ 6.80 \\ 8.55 \end{array}$ |  | 7058 7057 7057 | 1．15 |
|  |  |  |  |  |  |  |  | ${ }_{6211}$ | $\begin{array}{r} 8.85 \\ 2.40 \\ \hline \end{array}$ | 6676／GU8A 1．57 | 7037 | 1.85 1.20 |
| O82 | 1．32 | 5QP4． 5R4－GY | 67.70 | ${ }^{802}$ | ${ }_{4}^{10.90}$ | 2041  <br> 2050 9.000 .00 <br> 1.85  |  |  | $\begin{array}{r}72.00 \\ \hline 96.25\end{array}$ | 6679／22AT7 1.46 | 7059 | ． 6 |
| －${ }_{\text {OP3 }}$ | 1．15 | SR4．CA SRA．CY P4．cy | 1．90 | － | 27．20 | $\begin{array}{ll}\text { 2009 } & 1.755 .00 \\ 4000 & 1.755 \\ 4015\end{array}$ | （1） | cke | 3696.25 21．20 130 | （880／12Au74 1.19 | ${ }_{7}^{7060}$ | ． 28 |
|  | 1.27 | SUPi | 11.25 | ${ }^{807}$ | 20.10 3.00 | 4011 $1,265.00$ | S773 | ${ }_{\text {cke }} \mathbf{2 8 1}$ | 100．00 | ${ }^{66944} 5$ |  | 35 |
| ${ }^{003}$ | 1.27 |  | 25.75 | 8 | 7.20 | K4330 | $\begin{array}{ll}5771 & 860.00 \\ 5779\end{array}$ | ${ }^{26}$ | 10.80 | 88802 11.43 <br> 6807 19.30 <br> 808  | 7085 | 820．00 |
| $\mathrm{OCS}^{60}$ |  | ${ }^{\text {SYac7 }}$ |  |  | 25.65 6.90 | 5513  <br> 5516 467.25 <br> 5.95  |  |  | 4.10 | c809 29．40 |  | 220.00 31.95 |
| A | 2．80 | sacti | 5 | ${ }^{12}{ }^{12}$ | ${ }^{6.90}$ |  | Cns783wa | 622 | 6.40 6.05 |  | ${ }_{711}$ |  |
| 1aca | 3.05 | sals |  | ${ }^{13}$ |  |  |  |  |  | 9 | AK715： | 11.90 68.00 |
|  |  |  |  |  |  | 5o | cksior 5.00 |  | 20 | 6016 60.00 | ${ }^{7163}$ |  |
| 1acs | 05 | SA | 1.40 | 115 | ． 6 | 9.00 | 5788 476．25 | ${ }_{6} 3424$ | 20．10 | ${ }_{6049} 1425.18$ | 72 | 1230.00 205.00 |
| ${ }_{\text {lans }}$ | 1.35 1.35 | Cans | 3．75 | 818 | 27．85 | $55510 \quad 65.00$ | $96 \quad 17.25$ | ． 346 | 70.00 | 6050 16．00 | ${ }^{3} \times 1 \times 2$ | 23 |
| ${ }_{2}^{2885}$ | \％．s5 |  | （6．45 | ciser | 19.00 15 |  | 5814A ${ }_{\text {SR }}$ | ${ }_{6} 3478$ | 104.00 | 6356／740 10.40 | 208， $4 \times 2$ |  |
| $1021 / 5$ |  | 6ALE－WA | 2.80 | ${ }^{832} \mathbf{4}$ |  |  |  |  | 250.00 2.35 | 6857／7409 20.10 |  |  |
| Cil ${ }^{\text {che }}$ | 25.00 | ${ }^{\text {6AUSWB }}$ | 2.80 | ${ }_{8}^{83.4}$ | S5．00 | S555 316．00 |  | ${ }^{335}$ | 2.35 4.00 |  | ${ }^{7213} 723$ |  |
|  | 26.50 46.00 | ¢ $\begin{gathered}\text { Scaw } \\ \text { ciscm }\end{gathered}$ | er 4.30 4.20 | －338 | 10.15 8.65 | （ess56 |  | －${ }^{3} \mathbf{3 1 2}$ | （135．00 |  | （ 7223 |  |
| 1 | 18．50 | ${ }^{604}$ | 2.85 | ${ }^{8485}$ | 20.80 | ${ }_{3359}^{338}$ | $\begin{array}{ll}5824 & 3.60\end{array}$ | 6386 | 7.40 | E8654 $\quad 1523.00$ |  |  |
| ${ }_{121}$ |  | ${ }_{814}$ | ¢ 6.25 | ${ }^{851} 8$ | 退 $\begin{array}{r}23.55 \\ 240.00\end{array}$ | 5559  <br> 5560  <br> 33.00  <br> 50  |  | － 6397 |  |  | ${ }^{7315}$ | 495．00 |
| ${ }_{\text {1P22 }}^{18}$ | 14．75 | did．W | S． 5 | ${ }^{8624}$ | 113．25 |  | \＄830 320.00 | 6414 | C．73 |  |  |  |
| 1 P 29 | 4.65 | Ssjy－r | S．15 | ${ }_{868} 86$ | 2．90 | 55634 <br> 5564 | $\begin{array}{ll}5880 \\ 5844 & 6.25 \\ \text { Se4，} \\ \text { 2．30 }\end{array}$ |  | 2.37 | 6887 | 73 |  |
|  | 3.75 | 6577 |  |  | O． | \＄373／100 237．00 | CL5ass 70.0 |  | ． 20 |  |  | o．oo |
|  | 2. | ${ }^{\text {csk }}$ | 2.8 | 878 | 28.00 | S381 3 | 3876 14．95 | CK64 | 8．30 | 6895 25.0 | 7448 | 2．15 |
| P4id | 3．80 | （esw ${ }^{651}$ | 2.34 <br> 2.53 | ${ }^{37} 8$ | 10.65 16.70 | $\begin{array}{cc}5582 \\ 5583 & 5.50 \\ 508\end{array}$ |  | （ ${ }_{\text {c442 }}$ | － 47.122 |  | （1467 | 15．00 |
| $1{ }^{182}$ | 13.75 | exswar | 2.51 | ${ }^{888}$ | 395.00 | 55884 5－90 | CK58836 | ${ }^{6472}$ | 12.40 |  |  |  |
| 176 | 1．90 |  |  | 884 | ${ }^{1.85}$ | 5588  <br> 5592 190.00 <br> 1850  |  | 647 | 13.37 | 6902 27.00 |  |  |
| $2 A P 1$. | 15.75 | \％ | 37 | 38\％ |  | 5593 270.0 |  | ${ }^{6485}$ |  |  |  |  |
|  |  | $7{ }^{7}$ |  | －1 |  | 5610 |  |  |  |  |  |  |
| $28 P 1$ | 20. |  | 62 | 892 | 290.00 | 5618 5 | 5899 6． 55 | Cs1 | 347. | 6930／635P | S020 | S0 |
| 23 | 48.5 |  | 22．90 |  |  | 5621 5 | 75 |  |  | 694235 |  |  |
| ${ }^{2 \mathrm{Ca} 39} \mathrm{C}$ | 22．50 32.15 | （esp4 |  | （en ${ }^{\text {goin }}$ | 22．55 |  | 5915  <br> 5933 11.55 <br> 593  <br> 11.35  | （ex | 1091.50 3.43 | ¢995 |  | 3．10 |
| 2C39．Wh | 30.00 | $12 A 6$ | 2.30 | 918 | 4.30 | 5626 | WL5934 20.50 |  |  | － |  |  |
| － | 27.50 23.45 | ${ }_{12}^{12 A T Y}$ | 2.80 | 919 | 5.50 | ${ }^{3627} \quad 72.50$ | 5946 |  | 2.15 | ${ }_{7025 / 12 A \times 7}^{1970.00}$ | ${ }_{9006}^{9005}$ | 50 |
| ${ }_{2}{ }^{2} \mathrm{CA}_{3}$ | 24．55 | $14 \cup P 4$ | 70.00 | 9220 | 3．40 | （5620 | 5963 1.40 <br> 5964 1.40 <br> 104  |  |  | 29 |  |  |
| ${ }^{2 \mathrm{Ca}}$ | 23.90 | ${ }^{\text {Krata }}$ | 25．00 | 922 | 3.00 | 5630 1620.00 | ${ }^{3965}$（ ${ }^{\text {2．37 }}$ | ${ }^{\text {B }}$ | 9.10 | ／4x150n 36.50 |  |  |
| 21 | 2.80 |  |  |  |  | 5636 5636 | CLS593 |  |  |  |  | O PAIA |
|  | 5.25 | 260 | 2.55 | ${ }^{925}$ | 3.75 | 5642 | － 65976 Eb．00 |  |  |  |  |  |
| 30 | 3.45 <br> 2.95 | Fcra <br> 2807 <br> 807 |  | ${ }_{928}^{927}$ | 3.75 5.75 |  | ${ }_{\text {cois }}^{5005}$ |  | 9 |  |  |  |
| 31 | 3.35 3.35 | ${ }^{35}$ | 20.00 | 929 | 2.00 | CKs3siwn 4.20 |  |  |  |  |  |  |
|  |  | ${ }_{\text {Kr．}} \mathrm{C}$ | 3.75 8.50 | ${ }_{9314}$ |  |  |  |  |  |  |  |  |
|  | 270．00 | ${ }_{\text {KK }}$ | 4．20 | ${ }_{9314}{ }^{\text {931 }}$ | 11．55 |  |  |  |  |  |  |  |
|  | 63.00 627.00 | ${ }_{\text {KTV6M }}$ |  | ${ }_{9}^{938}$ |  |  | （6021 | OD | Ulato | IFIE |  |  |
| 2. | 2.90 | Fceia | 27.77 | 996 | 10．85 | $5654 /$ SAK $5654 /$ AKS | 6026 12.40 <br> 6032 12.00 | Tubitr | Aors |  |  |  |
| WL | 0 |  |  | 955 |  | W15860 307.00 |  | ML－2C39 | － | ML－89\％${ }^{\text {M }}$ | L． 642 |  |
| ${ }_{3 \times 3}$ | li．${ }_{\text {l }}^{1.20}$ | ${ }_{\text {¢T\％}}^{\text {¢\％}}$ | 11.65 | ${ }_{957}^{956}$ | ¢．75 | 5670  <br> 5670 WA $\mathbf{3 . 9 0}$ <br> 8.35  |  | ${ }_{\text {m }}$ | 26.50 |  | M |  |
| $3 \mathrm{3AP} 1$ | 25.50 | rcar |  | 958A |  | 5671 ${ }^{13355.00}$ |  | Ml． 220 C | 449.00 | ML－893AR 1340.00 | ML．6425 |  |
|  |  |  | 71.43 | 959 | 10.50 | CK3672 ${ }^{\text {cke }}$ | 6073 3．00 |  |  | 33 | ． 6 | \％ |
| 3828 | （7．00 | ${ }_{105}^{\text {ci．}}$ | S3．33 | ${ }_{101}^{99}$ | ． 50 | 5674 5675 |  | ML． 2413 | 210.00 | Mi－5531 630.0 | ML． 64 | \％ |
| 38P8 | 18.60 | ${ }_{\text {ric1 }}{ }_{1}$ | 88.75 | CK10 | 6.03 |  | －074／0日2 3.45 | －242 | 25.00 | 500 | ． 6 |  |
| ${ }^{3} \mathbf{4} \times 120$ | 12.98 | 172 | 82.35 | Cx10 | 11.86 | 5679 1785 | coso $\quad 3.25$ | ML－298A |  |  |  |  |
| 3022－A | 21.25 | 250 | 15.50 33.00 | CK10 | 11.56 |  |  | ML－342A | 870 | ML．5619 ${ }^{\text {M43．}}$ | ML－ | － |
| ${ }_{3} 3198$ | 19.0 | rc． 2.2 54.30 | 73.40 | ${ }^{\text {ckio }}$ | 3.30 |  | 8087 5．75 | ML | 773．0 | ML． 56585859 | mL |  |
|  |  |  |  |  |  | 5690 | －6006a | ML． 3 |  | －5667 370 |  |  |
|  | 19 | 30 | 60.50 | ${ }^{1222 A}$ | 2.45 | 5691 ． 4 | 1101 | ML－356 |  |  | ML－70 | 3000．00 |
| ${ }_{3} \mathbf{3 \mathrm { MPPA }}$ | 23． | ${ }_{3}^{\text {cta }}$ | 13.25 | 1229 | 6．40 | $\begin{array}{ll}5692 & 8.15 \\ 5693\end{array}$ | 6101／016．WA 6.15 | 577 |  | ML－5681 1875.03 | mL | 423.00 |
|  | 14．25 | 39 | 7．40 | 1280 | 14．50 | S693 | 6111 5.45 <br> 61212 5.45 <br> 18  | ML－357 | 170．0 |  | ML 71221 | 495．00 |
| ${ }_{3} 3 \mathrm{3RP1}$ | 20．73 | c | 71．45 | ${ }^{1612}$ | 4.15 | CK5702 ${ }_{\text {cks }}$ | $5130 / 3645$ 517.30 | ML－833 |  | ML． 6258280 | ML－7125 | 920.00 |
| ${ }_{3 \times 2500} 3 \times 1$ |  | ci．${ }^{\text {a }}$ | 135.00 | ${ }_{1614}$ | 3.77 | $\mathrm{CNSFO3}^{\text {che }}$ |  |  |  | $\mathrm{ML} \cdot 257$ 252.00 <br> ML .6250  <br> 180.00  |  |  |
| ${ }^{4} \mathbf{4 C \times 2 5 0 8}$ | 45. |  |  |  | 12．60 |  | ［136 | －899a |  | Mi－6420 360.00 |  | 1200．00 |
|  |  |  |  | $\begin{array}{r} 1620 \\ 1621 \\ \hline \end{array}$ |  |  | $\begin{array}{ll} 8185 / 44^{\circ} \\ 125.00 \end{array}$ | Photosensitive and storage tuess |  |  |  |  |
|  |  |  | $\begin{aligned} & 3.20 \\ & 2.77 \\ & 4.59 \\ & 2.94 \end{aligned}$ |  | 2．603．435．755． | 5719 5719 <br> 5720 |  |  |  |  |  |  |
| $4 \times 250$ 4.650 4.125 | 42.50 <br> 5.00 | CK526AX |  |  |  | $\begin{array}{cc}5720 \\ 5722 & \begin{array}{c}34.75 \\ 6.40\end{array}\end{array}$ | 2504 41.25 <br> 5159  <br> 6161 115.00 <br> 0150  |  |  |  |  |  |
|  | 36.00 | Cxs 3aA |  |  |  |  |  |  |  |  |  | dectifiers |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4．1000 ${ }^{\text {4．}}$ |  |  |  | ces | 2．20 | 5726 |  |  |  |  | ML－872A 3 ¢900 |  |
| 127／8001 | 132.00 40.00 | ${ }_{579 \mathrm{~B}}^{\mathbf{5 7 5}}$ | $\begin{aligned} & 20.15 \\ & 20.50 \end{aligned}$ |  | 3.45 2.37 |  |  | ML .142 ML－1272A | $\begin{aligned} & 74.00 \\ & 152.00 \\ & 350.00 \\ & 365.00 \end{aligned}$ |  |  |  |
| s．12́s |  |  | so |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | C1672 |  |  |  |  |  |  |  |  |  |  |  |  |  |

INDUSTRIALS WRITE FOR QUANTITY QUOTATIONS．
This is only a partial tisting．Wh can supply all special
Page 108
LAFAYETTE - SEMI CONDUCTOR HEADQUARTERS

- Complete Current stock - OEM Prices - IMMEDIATE shipment
 TEXAS INSTRUMENTS

COUMN HEADINGS: $\mathrm{C}=$ Colloctor Dissiontion in ontis




## GERMANIUM TRANSISTORS

 COMPUTER|  |  | Pc | ${ }_{0}$ | 1 c |  | * |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2m | ${ }^{\frac{x}{x}}$ | 150 | -30 | $\xrightarrow{250}$ | 20t | 8.5 | 8.175 | $\frac{1.75}{2.58}$ |
| $\stackrel{\text { and }}{\substack{\text { and } \\ \text { 2ndos }}}$ |  | 1.150 | ${ }_{\text {- }}$ | ${ }_{-50}^{250}$ |  | ${ }_{250}^{12.0}$ | 22.00 | 7. 30 |
| ${ }^{\text {and }}$ |  | ${ }_{\text {l }}^{150}$ | - 80 | - 25 |  | . | - 4.000 | - |
|  |  | 300 | - | 3000 |  | 4.5 | 3,50 | coiz |
|  |  | 300 | - 25 | cois |  |  | ciso | 边 |
|  |  | coo | -35 | 00 |  |  | c. | \% |
|  |  |  |  |  |  |  | 6. 25 |  |
| 1309 |  | ${ }_{300}$ | co 30 |  |  |  | 2.e |  |



power


SILICON TRANSISTORS (NPN)

| Type | $\left\|\begin{array}{c} \text { Case } \\ \text { Type } \end{array}\right\|$ | Pc | me min | Is | $\begin{aligned} & \text { By fat } \\ & \text { cod } \end{aligned}$ | 1.95 | 100 995 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 W 117 | G | 0.150 | 9 | 25 | 458 | 5.75 | 6.50 |
| USM2w117 | 6 | 0.150 | 9 | 25 | 45 1+1 | 10.00 | 6.53 |
| 2W118 | 6 | 0.150 | 18 | 25 | 45 | 16.75 | 11.15 |
| USW2W118 | G | 0.150 | 18 | 25 | 45 RIt | 16.45 | \$1.30 |
| Lamanilo | 6 | 0.150 | 9 | 18 | 45 2tt | 18.60 | 12.40 |
| 2W119 | G | 0.150 | 36 | 25 | 45 | 21.05 | 14.55 |
| USm2w119 | 6 | 0.150 | 36 | 25 | 45 2t4 | 12.05 | 14.70 |
| 2N12\% | 6 | 0.150 | 76 | 25 | 45 | 23.65 | 15.75 |
| 2 W 332 | 1 | 0.150 | 9 | 25 | 45 | 2.25 | 6.15 |
| USW2M332 | 1 | 0.150 | 9 | 25 | 45 | 245 | 6.30 |
| $2 \mathrm{CH33}$ | ! | 0.150 | 18 | 25 | 45 | 15.00 | 10.67 |
| USM2w33] | 1 | 0.150 | 18 | 25 | 45 | 16.20 | 10.t0 |
| 2W334 | 1 | 0.150 | 18 | 25 | 45 E11 | 18.00 | 10.65 |
| USM201334 | 1 | 0.150 | 18 | 25 | 45 1-4 | 1614 | 10.6 |
| 2w33s | 1 | 0.150 | 36 | 25 | 45 | 21,40 | 1425 |
| USM26]35 | 1 | 0.150 | 36 | 25 | 45 | 21.60 | 14.40 |
| 2m338 | 1 | 0.150 | 76 | 25 | 45 | 21.40 | 1530 |
| 2M1149/203 | A | 0.150 | 9 | 25 | 45 | 10.00 | 565 |
| 2N1150/804 | A | 0.150 | 18 | 25 | 45 | 16.05 | 71.30 |
| 2w151/204a | A | 0.150 | 36 | 25 | 45.391 | 15.95 | 11.30 |
| 2W1152/905 | A | 0.150 | 36 | 25 | 45 | 23.10 | 155.40 |
| 2W1153/910 | $\lambda$ | 0.150 | 76 | 25 | 45 | 24.10 | 6.05 |



| medium rower |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  | ( |  |  |  |
| $\begin{aligned} & 2 \times 208 \\ & 2 m 24 \end{aligned}$ |  |  | ${ }_{80}^{501}{ }^{\text {P }}$ | 7, 50 po ps.00 |
|  | mou | TING | camps | $\begin{array}{r}15 \\ \hline \text { - } 15 \\ \hline\end{array}$ |


$t=$ at $25^{\circ} C, *=$ Aver
See case type above

## SILICON DIODES AND RECTIFIERS

## general purpose diodes

| Type | $\begin{aligned} & \text { Case } \\ & \text { Type } \end{aligned}$ | PIV | min fwd ma, ivt | $\int_{\text {max LIt }}^{\text {mat }}$ | 1.99 | $\begin{aligned} & \text { Net } \\ & 1100.999 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| IN456 | N | 25 | 40 | . 025 | 3.09 | 2.20 |
| 1N45 7 | N | 60 | 20 | . 025 | 3.50 | 2.70 |
| IN458 | N | 125 | 7 | . 025 | 3.90 | 3.00 |
| (N459 | N | 175 | 3 | . 025 | 4.15 | 3.20 |
| IN461 | N | 25 | 15 | 0.5 | 1.24 | . 95 |
| IN462 | N | 60 | 5 | 0.5 | 1.82 | 1.40 |
| IN463 | N | 175 | 1 | 0.5 | 2.21 | 1.70 |
| IN464 | N | 125 | 3 | 0.5 | 2.08 | 1.60 |
| IN645 | N | 225 | 400 | 0.2 | 3.20 | 2.12 |
| IN646 | N | 300 | 400 | 0.2 | 4.08 | 2.72 |
| 1N647 | N | 400 | 400 | 0.2 | 5.10 | 3.40 |
| IN648 | N | 500 | 400 | 0.2 | 6.19 | 4.12 |
| ING49 | M | 600 | 400 | 0.2 | 7.20 | 4.80 |
| 600C | M | 27 | 3 | 1 (1).10v | 1.94 | 1.58 |
| 601 C | M | 45 | 10 | 0.025@-10v | 3.60 | 2.94 |
| 604 C | M | 4.7 | 760 | 0.1 | 3.25 | 2.66 |
| 606C | M | 6.8 | 835 | 0.1 | 3.25 | 2.66 |
| 608C | M | 10 | 25 | 0.1 | 3.25 | 2.66 |
| 610C | M | 15 | 20 | 0.1 | 3.30 | 2.70 |
| 612C | M | 22 | 20 | 0.1 | 3.40 | 2.78 |
| 614C | M | 33 | 20 | 0.1 | 3.50 | 2.86 |
| 616C | M | 47 | 10 | 0.2 | 3.50 | 2.94 |
| 618 C | M | 68 | 10 | 0.2 | 3.60 | 2.34 |
| 620C | M | 100 | 10 | 0.2 | 3.65 | 2.99 |
| 622C | M | 150 | 7 | 0.2 | 3.70 | 3.03 |
| 624C | M | 220 | 3 | 0.2 | 3.75 | 3.07 |
|  | - See case oulline orawings. tal $25^{\circ} \mathrm{C}$. |  |  |  |  |  |
|  | VOLTAGE REGULATOR DIODES |  |  |  |  |  |
| Type |  |  | zener V $\uparrow$ | Tetal May, Mw $\dagger$ | 1.99 | $100-999$ |
| 1N746 | N |  | 3.3 | 400 | 4.35 | 3.65 |
| 1N747 | N |  | 3.6 | 400 | 4.35 | 3.65 |
| IN748 | N |  | 3.9 | 400 | 4.35 | 3.65 |
| (N749 | N |  | 4.3 | 400 | 4.35 | 3.65 |
| IN750 | N |  | 4.7 | 400 | 4.35 | 3.65 |
| 1N751 | N |  | 5.1 | 400 | 4.35 | 3.65 |
| IN752 | N |  | 5.6 | 400 | 4.35 | 3.65 |
| [N753 | N |  | 6.2 | 400 | 4.35 | 3.65 |
| IN754 | N |  | 6.8 | 400 | 4.35 | 3.65 |
| 1N755 | N |  | 7.5 | 400 | 4.35 | 3.65 |
| IN758 | N |  | 8.2 | 400 | 4.35 | 3.65 |
| IN757 | N |  | 9.1 | 400 | 4.35 | 3.85 |
| IN758 | $\mathbf{N}$ |  | 10 | 400 | 4.35 | 3.65 |
| IN759 | N |  | 12 | 400 | 4.35 | 3.65 |
| IN746a thrs |  |  | Same IN746 S | as eries | 4.85 | 4.15 |
| IN7594 |  |  | cept $5 \%$ to | olerance |  |  |
| 650C | M |  | 3.7-4.5 | 150 | 4.35 | 3.65 |
| 651 C | M |  | 4.3-5.4 | 150 | 4.35 | 3.65 |
| 652C | M |  | 5.2-6.4 | 150 | 4.35 | 3.65 |
| 653Cs | M |  | 6.2-8.0 | 150 | 4.85 | 4.15 |
| 654 Cg 655 Cg | M |  | $8.5-9.5$ $9.5-10.5$ | 150 <br> 150 | 4.85 | 4.15 |

See case type
SIIICON COMPUTER DIODES

|  | Case |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | Type | PIV | Max L1b <br> ua | ma | 1.59 | Het |
| IN659 | N | 50 | 5 | 100 | 2.53 | 2.06 |
| IN660 | N | 100 | 5 | 100 | 2.63 | 2.22 |
| IN661 | N | 200 | 10 | 100 | 3.16 | 2.57 |


| Type | PHOTO DEVICE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { sias } \\ \text { yar. } \end{gathered}$ | Dark Cur. uat | Trp. Light mit | 1.24 | $25.99$ | $\text { et } 100-999$ |
| 1N2175 | 50 | 0.5 | 200 | 120.00 | 15.00 | 12.50 |
| $\dagger$ at $25^{\circ} \mathrm{C}$ | $+50 \mathrm{~V}$ | Max: | + 25 | $\pm 10 \mathrm{~V}$ |  |  |


| Type | SHICON |  | RECTIFERS-ECONOMY |  |  |  | $\begin{array}{r} 100 . \\ 999 \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Case } \\ & \text { Type } \end{aligned}$ | PIV | la | Rertt | 1.49 | $\begin{aligned} & \text { Net } \\ & 50-99 \end{aligned}$ |  |
| TN2069 | w | 200 | 750 | $0.2 @ 200$ | 1.10 | . 95 | . 75 |
| IN2070 | w | 400 | 750 | 0.2@400 | 1.35 | 1.15 | . 90 |
| IN2071 | w | 600 | 750 | 0.2@600 | 1.70 | 1.45 | 1.10 |



## MHOTO DEVICE

see Case types above

## TEXAS - TRANSISTORS-DIODES - PHILCO-RCA

TEXAS SILICON RECTIFIERS PHILCO TRANSISTORS (PNP)

| Type | Case * | PIV | $10$$m o t$ | $116$$401$ | Met |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 1.99 | 100.999 |
| 11/680 | A | 1250 | 37.5 | 100 | 32.20 | 24.60 |
| IN5 88 | 0 | 1500 | 25 | 50 | 8.10 | 5.40 |
| IN5 89 | 0 | 1500 | 50 | 50 | 11.20 | 7.60 |
| \|N|130 | P | 1500 | 300 | 50 | 11.20 | 7.60 |
| IN1131 | P | 1500 | 300 | 50 | 11.20 | 7.60 |
| INS38 | Q | 200 | 750 | 10 | 1.60 | 1.05 |
| IN539 | Q | 300 | 750 | 10 | 2.05 | 1.35 |
| IN540 | Q | 400 | 750 | 10 | 3.00 | 2.00 |
| IN1095 | 0 | 500 | 750 | 10 | 5.25 | 3.50 |
| IN1096 | 0 | 600 | 750 | 10 | 7.05 | 4.70 |
| IN1124 | R | 200 | 30 | 10 | 2.70 | 2.21 |
| INI125 | $R$ | 300 | 30 | 10 | 3.38 | 2.76 |
| INII26 | R | 400 | 30 | 10 | 4.73 | 3.87 |
| IN1127 | R | 500 | 30 | 10 | 6.76 | 5.56 |
| IN1128 | R | 600 | 30 | 10 | 8.32 | 6.80 |
| IN1124R | R | 200 | 30 | 10 | 2.70 | 2.21 |
| IN1125R | R | 300 | 30 | 10 | 3.38 | 2.76 |
| INII26R | R | 400 | 30 | 10 | 4.73 | 3.87 |
| IN1127R | R | 500 | 30 | 10 | 6.76 | 5.56 |
| INII28R | $R$ | 600 | 30 | 10 | 8.32 | 6.80 |

## TEXAS SILICON POWER

## REGULATORS

| Type | Cose 1 | $\begin{aligned} & \text { Zener } \\ & \text { Volt } \\ & \hline \end{aligned}$ | $\underset{m \times}{\text { Iz }}$ | may lz ohms | 1.99 | $100-999$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| IN1816 | R | 13 | 500 | 2 | 8.45 | 6.50 |
| 1N1817 | R | 15 | 500 | 2 | 8.45 | 6.50 |
| IN1818 | R | 16 | 500 | 3 | 8.45 | 6.50 |
| IN1819 | R | 18 | 500 | 3 | 8.45 | 6.50 |
| IN1820 | R | 20 | 250 | 3 | 8.45 | 6.50 |
| 1N1821 | R | 22 | 250 | 3 | 8.45 | 6.50 |
| IN1822 | R | 24 | 250 | 3 | 8.45 | 6.50 |
| IN1823 | R | 27 | 250 | 3 | 8.45 | 6.50 |
| IN1824 | R | 30 | 250 | 4 | 8.45 | 6.50 |
| IN1825 | R | 33 | 150 | 4 | 8.45 | 6.50 |
| IN1826 | R | 26 | 150 | 5 | 8.45 | 6.50 |
| 1N1827 | R | 39 | 150 | 5 | 8.45 | 6.50 |
| IN1828 | R | 43 | 150 |  | 8.45 | 6.50 |
| 1N1829 | R | 47 | 150 | 7 | 8.45 | 6.50 |
| 1N1830 | R | 51 | 150 | , | 8.45 | 6.50 |
| IN1831 | R | 56 | 150 | 9 | 8.45 | 6.50 |
| 1 N1832 | R | 62 | 50 | 12 | 8.45 | 6.50 |
| IN1833 | R | 68 | 50 | 14 | 8.45 | 6.50 |
| IN1834 | R | 75 | 50 | 20 | 8.45 | 6.50 |
| INI835 | R | 82 | 50 | 22 | 8.45 | 6.50 |
| 1N1836 | R | 91 | 50 | 35 | 8.45 | 6.50 |
| IN1816R |  |  |  |  |  |  |
| 1N1836R* | R |  |  |  | 8.45 | 6. 50 |
| IN1816A1 |  |  |  |  |  |  |
| INIB36A |  |  |  |  | 11.00 | 8.50 |
| IN1816R | thre |  |  |  |  |  |
| INI836RA IN1816C. | $\begin{array}{r} R \\ \text { ihru } \end{array}$ |  |  |  | 11.00 | 8.50 |
| IN1836C |  |  |  |  | 13.00 | 10.00 |
| - Cothode ta stud; without $R$ ar $C$ suffix is onade ta stud. 1 $5 \%$ talerance: all athers $\pm 10 \%$. |  |  |  |  |  |  |
| *. Designed ta clip, hos dauble anade characteristic. All have 10 micraomperes reverse current ond 10 wotts pawer dissipalian. \#Refer to previous page far case types. |  |  |  |  |  |  |

## TEXAS SILICON SENSISTOR

## SOLID STATE TEMPERATURE SENSING RESISTORS



## PHILCO TYPE AO-1 TRANSISTOR <br> 30 Mc . <br> surface barrier tannsistor RF - OSCILLATOR - IF

## (A) MOTOROLA-TRANSISTORS - DIODES <br> (A) <br>  <br> (8) <br>  <br> (C) <br>  <br> (D) <br> (E) <br> (F) <br> (G)

## GERMANIUM POWER

 TRANSISTORS—PNPCOLUMN HEADINGS: 8Vcbo = Collector to Base Voltage; $j=$ Junction temperature in degrees C Centigrade; IC $=$ Collector Current; hrE $=\mathrm{DC}$ current gain; hfe fab $=$ frequency cutoff. Average shpg. wt., 2 oz .

| Type | Fig. | gycbo Volts | Th | $\begin{gathered} \text { Ic } \\ \text { amps } \end{gathered}$ | WFE | - Use |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2N176 | A | 40 | 90 | 3.0 | 45 | 2 W |
| 2N178 | A | 40 | 90 | 3.0 | 25 | $2 W$ |
| 2N297A | A | 60 | 80 | - | 40 | 10 W |
| 2N297A. | A | 60 | 80 | - | 40 | 10 W |
| 2N350 | A | 40 | 90 | 3.0 | 30 | 4 W |
| 2N350A | A | 50 | 100 | 3.0 | 30 | 4 W |
| 2N351 | A | 40 | 90 | 3.0 | 45 | 4 W |
| 2N351A | A | 50 | 100 | 4.0 | 45 | $4 W$ |
| 2N375 | A | 80 | 95 | 3.0 | 22 | HV |
| 2N376 | A | 40 | 90 | 3.0 | 60 | 4 W |
| 2N376A | A | 50 | 100 | 5.0 | 60 | 4 W |
| 2N554 | A | 30 | - | 3.0 | $\stackrel{\rightharpoonup}{\square}$ | $2 W$ |
| 2N555 | A | 40 | $\stackrel{\rightharpoonup}{\square}$ | 3.0 | 65 | 2 W |
| 2N618 | A | 80 | 95 | 3.0 | 35 | HV |
| 2N627 | G | 40 | 90 | 10.0 | 18 | HV |
| 2N628 | G | 60 | 90 | 10.0 | 18 | HV |
| 2N629 | G | 80 | 90 | 10.0 | 18 | HV |
| 2N630 | G | 100 | 90 | 10.0 | 18 | HV |
| 2N669 | A | 40 | 90 | 3.0 | 100 | 2 W |
| 2N1011 | A | 70 | 95 | 5.0 | 55 | Pwr |
| 2N1011. (Sig C) | A | 70 | 95 | 5.0 | 55 | Pwr |
| 2NI120 | G | 80 | 90 | 10.0 | - | $4 W$ |
| $\begin{aligned} & 2 \text { N1 } 120 . \\ & \text { (Sig. C) } \end{aligned}$ | $G$ | 80 | 90 | 10.0 | - | 4 W |
| 2N1162 | A | 50 | 90 | 25.0 | 25 | HV |
| 2N1163 | G | 50 | 90 | 25.0 | 25 | HV |
| 2N1164 | A | 80 | 90 | 25.0 | 25 | HV |
| 2N1165 | G | 80 | 90 | 25.0 | 25 | HV |
| 2N1166 | G | 100 | 90 | 25.0 | 25 | HV |
| 2N1167 | G | 100 | 90 | 25.0 | 25 | HV |
| 2N1359 | A | 50 | 95 | 3.0 | 22 | HV |
| 2N1360 | A | 50 | 95 | 3.0 | 35 | HV |
| 2N1362 | A | 100 | 95 | 3.0 | 22 | HV |
| 2N1363 | A | 100 | 95 | 3.0 | 35 | HV |
| 2N1364 | A | 120 | 95 | 3.0 | 22 | HV |
| 2N1365 | A | 120 | 95 | 3.0 | 35 | HV |
| wotloge: | icol, | all oth 5 witch | $\begin{aligned} & \text { her ral } \\ & \text { h; HV } \end{aligned}$ | gs mo <br> Migh | Volto |  |


| Type | Fig. | Vol | $\begin{aligned} & \mathrm{T}] \\ & { }^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { Pc } \\ & \mathrm{mw} \end{aligned}$ | hfe** | Use | $\begin{aligned} & \text { Net } \\ & 1.99 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2N695 | 8 | 18 | 100 | 75 | 30 | Sw | 25.30 |
| 2N700 | 8 | 30 | 100 | 75 | 8 | UHF | 22.00 |
| 2N701 | 8 | 30 | 100 | 75 | 25 | Wide | 47.50 |

## GERMANIUM GENERAL PURPOSE

 AUDIO TRANSISTORS—PNP| 2N331 | c | 30 | 85 | 200 | 50 | AF | 1.87 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2N464 | c | 45 | 85 | 150 | 26 | AF | 1.65 |
| 2N465 | c | 45 | 85 | 150 | 45 | AF | 1.73 |
| 2N466 | C | 35 | 85 | 150 . | 90 | AF | 1.80 |
| 2N467 | C | 35 | 85 | 150 | 180 | AF | 2.25 |
| 2N650 | C | 45 | 100 | 200 | 40 | AF | 1.87 |
| 2N651 | C | 45 | 100 | 200 | 75 | AF | 2.10 |
| 2 N 652 | c | 45 | 100 | 200 | 160 | AF | 2.40 |
| 2N653 | c | 30 | 100 | 200 | 40 | AF | 1.65 |
| 2N654 | C | 30 | 100 | 200 | 75 | AF | 1.80 |
| 2N655 | C | 30 | 100 | 200 | 160 | AF | 1.95 |
| 2N1191 | C | 40 | 85 | 175 | 40 | AF | 1.43 |
| 2N1192 | C | 40 | 85 | 175 | 75 | AF | 1.50 |
| 2N1193 | C | 40 | 85 | 175 | 150 | AF | 1.65 |
| $\cdots=\mathrm{T}_{\mathbf{Y}}$ | ica | all oth | her ro | ass ore | 0x. |  |  |
| GER | MA | 10 |  | NER |  | UR |  |
|  | W | CHI | NG | RAN |  |  |  |
| Type | Fis. | evebo Volts | Pc mw | hfe** | fab <br> mc | Use | $\begin{aligned} & \text { Net } \\ & 1.99 \end{aligned}$ |
| 2N425 | c | 30 | 150 | 30 |  | Sw | 4.05 |
| 2N426 | C | 30 | 150 | 40 | 6 | Sw | 4.05 |
| 2 N 427 | c | 30 | 150 | 55 | 11 | Sw | 6.10 |
| 2N428 | c | 30 | 150 | 80 | 17 | Sw | 7.50 |
| MN. 19 | c | 40 | 125 | 40 | 8 | Sw | 6.00 |

## ZENER DIODES

1 WATT SILICON ZENER DIODES (Figure E)

(Figure D)
altage Current impedanc ols

10 WATT SILICON ZENER DIODES (Figure F)

| 10M6.82 | 6.8 | 370 | 1.2 | 7.95 | 6.65 | 10M502 | 50 | 50 | 15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10M1.52 | 7.5 | 335 | 1.3 | 7.20 | 6.00 | 10M522 | 52 | 50 | 15 |
| 10M8.22 | 8.2 | 305 | 1.5 | 7.20 | 6.00 | 10M562 | 56 | 45 | 16 |
| 10M9.12 | 9.1 | 275 | 2.0 | 7.20 | 6.00 | 10M622 | 62 | 40 | 17 |
| 10M102 | 10 | 250 | 3 | 7.29 | 6.00 | 10M682 | 68 | 37 | 18 |
| $10 \mathrm{M112}$ | 11 | 230 | 3 | 7.20 | 6.00 | 10M752 | 75 | 33 | 22 |
| 10M122 | 12 | 210 | 3 | 7.20 | 6.00 | 10M822 | 82 | 30 | 25 |
| 10M132 | 13 | 190 | 3 | 7.20 | 6.00 | 10M912 | 91 | 28 | 35 |
| 10M142 | 14 | 180 | 3 | 7.20 | 6.00 | $10 \mathrm{M1} 1002$ | 100 | 25 | 40 |
| 10M152 | 15 | 170 | 3 | 7.20 | 6.00 | 10M1052 | 105 | 25 | 45 |
| 10M162 | 16 | 155 | 4 | 7.20 | 6.00 | 10M1102 | 110 | 23 | 55 |
| 10M172 | 17 | 145 | 4 | 7.20 | 6.00 | 10M1202 | 120 | 20 | 75 |
| $10 \mathrm{M1日2}$ | 18 | 140 | 4 | 7.20 | 6.00 | 10M1302 | 130 | 19 | 100 |
| 10M192 | 19 | 130 | 4 | 1.20 | 6.00 | $10 \mathrm{M1402}$ | 140 | 18 | 125 |
| 10 M 202 | 20 | 125 | 4 | 7.20 | 6.00 | 10M1502 | 150 | 17 | 175 |
| 10M222 | 22 | 115 | 5 | 1.20 | 6.00 | 10M1752 | 175 | 14 | 250 |
| 10M242 | 24 | 105 | 5 | 1.20 | 6.00 | $10 \mathrm{M2002}$ | 200 | 12 | 300 |
| 10M252 | 25 | 100 | 6 | 7.20 | 6.00 | 10M6.821 |  |  |  |
| 10M272 | 27 | 95 | 7 | 1.20 | 6.00 | 10M7.521 | Mru | 10* |  |
| 10M302 | 30 | 85 | 8 | 7.20 | 6.00 | 10M1002 | hru | 210 |  |
| 10M332 | 33 | 75 | 9 | 7.20 | 6.00 | 10M6.825 |  |  |  |
| 10M362 | 36 | 70 | 10 | 7.20 | 6.00 | 10M7.525 | 10 |  |  |
| 10M392 | 39 | 65 | 11 | 7.20 | 6.00 | 10M10025 | ru 1 | 5 $\dagger$ |  |
| 10M432 | 43 | 60 | 12 | 7.20 | 6.00 | $\cdots \pm 1$ | ; $\dagger$ | \% | nce. |
| $10 \mathrm{M452}$ | 45 | 55 | 13 | 7.20 | 6.00 | For catho | to b | arity | R af |
| $10 \mathrm{M472}$ | $4)$ | 55 | 14 | 720 | 6.00 | 10M6 |  |  |  |



7.20
7.20
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7.20
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8.10
8.10
8.10
8.10
8.10
8.10
8.10
8.10
8.10
10.80
9.75
12.75
13.35
12.75
20.70

 for cathode to
ie. $10 \mathrm{M6.62R5}$

## MOTOROLA-TRANSISTORS-DIODES-BENDIX

## MOTOROLA 50 WATT SILICON ZENER DIODES

MOTOROLA JEDEC-TYPE 10 WATT SILICON ZENER DIODES



BENDIX GERMANIUM TRANSISTORS

| Type | $\begin{aligned} & \text { Voe } \\ & \text { Volis } \end{aligned}$ | $\begin{gathered} 16 \\ \hline \end{gathered}$ | Mfe | Aver <br> 202 |  | wi.s |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Watt | Use | et |
| 2N234A | 30 | 3 | 251 | 2 | Audio | 1.60 |
| 2N235A | 40 | 3 | 404 |  | Audio | 2.90 |
| 2N235E | 40 | 3 | 604 | 2 | Audio | 3.07 |
| 2N2J6A | 40 | 3 | 401 | 4 | Audio | 3.57 |
| 2N2308 | 40 | 3 | SOt | , | AF.Pwr | 4.33 |
| 2N255 | $15 \cdot$ | 3 | 40 | 1 | AFPp.p | 1.45 |
| 2N256 | $30^{*}$ | 3 | 40 | 2 | AFP.p | 1.60 |
| 2N285A | 40 50 | 5 | 1504 | 2 | AF, Pwr | 4.14 |
| ${ }^{2 N 2 N 297 A}(\mathrm{~m})$ | ) 50 | 5 | 70 | 355 359 | Sw, Pwr | 5.88 11.65 |
| 2N307 | $35^{\circ}$ | 1 | 80 | - | Sudior | 11.65 1.00 |
| 2N307A | $35 *$ | , | 80 | 1 | Audio | 2.16 |
| 2N331 | $30^{\circ}$ | 0.2 | 504 | 0.45 | AF, Sm | 4.23 |
| 2N331(m) | $30^{\circ}$ | 0.2 | 501 | 0.45 | AF,Sm | 5.71 |
| 2N399 | 40 | 3 | 404 | 81 | AFPP | 3.55 |
| 2N400 | 40 | 3 | 301 | - | AFPPwr | 4.97 |
| 2N401 | 40 | 3 | 404 | 5 | AFP.P | 3.32 |
| 2NA18 | 80 45 | 3 | 30 604 | 100.0 | ${ }_{\text {Pwor }}{ }_{\text {Pur }}$ | 6.87 373 |
| 2N4 20 | 40 | 5 | ${ }_{50}$ | $\underline{5}$ | Swry Pwr | 3.73 290 |
| 2N420A | 70 | 5 | 50 | - | Sw.Pwr | 5.38 |
| ${ }^{2 N 637}$ | 40 | 5 | 45 | 35.0 | Sw, Pwr | 3.73 |
| 2N637A | 70 | 5 | 45 | 70.. | Sw, pwr | 5.05 |
| 2N6378 | 80 | 5 | 45 | 70. | Sw, Pwr | 0.70 |
| 3N638 | 40 | 5 | 30 | 35.0 | Sw, Pwr | 3.51 |
| 2N638A | 70 | 5 | 30 | 70.0 | Sw, Pwr | 4.51 |
| 2N6388 | 80 | 5 | 30 | 70.. | Sw, Pwr | 6.15 |
| 2N639 | 40 | 5 | 23 | 35.0 | Sm.Pwr | 3.07 |
| 2N639A | 70 | 5 | 23 | 70.. | Swipwr | 3.96 |
| 2N6398 | 80 | 5 | 23 | 70** | Sw, Pwr | 5.61 |
| 2N677 | 30 | 15 | 40 | 75. | Sw, Pwr | 3.81 |
| 2N677A | 40 | 15 | 40 | 1250. | Sw.Pwr | 5.05 |
| 2N6778 | 70 | 15 | 40 | 250.* | Sw, Pwr | 9.59 |
| 2N677C | 80 | 15 | 40 | 2500. | 5w, Pwr | 14.53 |
| 2N678 | 30 | 15 | 75 | 750 | Sw, Pwr | 5.05 |
| 2N678A | 40 | 15 | 75 | 125** | Sw, Pwr | 6. 17 |
| 2N6788 2N678C | 70 80 | 15 | 75 | 2500. | Sw,Pwr | 13.30 |
| $\begin{aligned} & 2 \mathrm{~N} 678 \mathrm{C} \\ & 2 \mathrm{~N} 1011 \end{aligned}$ | 80 70 | 15 5 | 75 55 | 250.. | SwiPmr | 19.90 |
| 2N1011(m) | 70 | 5 | 55 55 | 70** | Sm.Pmr | 6.70 11.65 |
| 2N1029 | Some | os 2 N | N1031, | with 1 | Sm, ${ }_{\text {Pmr }}$ | 11.65 3.81 |
| 2N1029A | Some | or 2 N | N1031i | with | ving leods, | 3.05 |
| 2N10298 | Som. | Os 2 N | N1031B | with 1 | ing leods, | 9.59 |
| 2N1029C | Some | os 2N | N1031C | with | ing leods | 14.54 |
| 2N1030 |  | os 2 | N1032. | with II | ing leads | 5.05 |
| 2N1030A | Some | os 2 N | N1032A | with 1 | ing leods, | 6.17 |
| 2N1030: | Some Sam. | os 2 N os 2 N | N1032B N1032 | with ${ }^{\text {with }}$ | ing leods | 13.30 19.90 |
| 2N1031 | 30 | 15 | 40 | 75 | Swing leods | 19.90 |
| 2N1031A | 40 | 15 | 40 | 125** | Sw.Pwr | 3.81 3.05 |
| 2N10318 | 70 | 15 | 40 | 250** | 5w, Pwr | 8. 59 |
| 2N1031C | 80 | 15 | 40 | 250** | Sw.Pwr | 14.53 |
| 2N1032 | 30 | 15 | 75 | 75.* | Sw.Pwr | 5.05 |
| 2N1032A | 40 | 15 | 75 | 1250. | Sw, Pwr | 6.17 |
| 2N10328 | 70 | 15 | 75 | 250** | 5w, Pwr | 13.30 |
| 2N1032C | 80 | 15 | 75 | 250.0 | Sw.Pwr | 19.90 |
| 2N1073 | 40 | 10 | 40 | 100** | Af. 5 w | 10.41 |
| 2N1073A | 80 | 10 | 40 | 1500. | AF,Sm | 19.90 |
| 2N1120 | 120 70 | 10 15 | 40 | 200.** | AF.Sm | 24.85 |
| 2N1120(M) | 70 | 15 | 35 | 250.0 | Sw, Pwr | 24.85 |
| 2N1136 | 40 | 5 | 75 | -350** | Sw.Pm, | 3.07 |
| 2N1136A 2N11308 | 70 | 5 | 75 | 70** | Sw, Pwr | 4.06 |
| 2N11368 | 80 | 5 | 75 | 70.* | Sw.Pwr | 5.71 |
| 2N1137 | 40 | 5 | 115 | 35** | Sw.Pwr | 3.57 |
| 2N1137A | 70 | 5 | 115 | 70.* | Sw, Pwr | 4.72 |
| 2N11388 | 40 | 5 | 115 150 | 70.* | 5w. Pwr | 6.37 |
| 2N1138A | 70 | 5 | 150 | $70^{\circ}$. | Sw, Pwir | 4.08 |
| 2N11388 | 80 | 5 | 150 | 70.0 | 5w.Pwr | 7.69 |
| 8.177 | 30 | 3 | $150 \dagger$ |  | AF, Pwr | 2.88 |
| E.178 | 30 | 3 | 40 | 2 | Audio | 2.03 |
| 8-179 | 40 | 3 | 25 $\dagger$ | 2 | Audio | 2.25 |

MEDIUM POWER RIANSISTOUS

| 11008 | 20 | . 300 | P | 400 | Sw, Pwr | . 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2N1008A | 40 | . 300 | 951 | . 400 | Sw, Pwr | 2.28 |
| 2N10088 | 60 | . 300 | $95+$ | . 100 | Sw.Pwr | 3.40 |
| 2N1176 | 15 | . 300 | 201 | . 300 | AF. | 1.42 |
| 2N1176A | 40 | . 300 | 201 | . 300 | AF, Pwr $^{\text {c }}$ | 2.08 |
| 2N11768 | 60 | . 300 | 201 | . 300 | Af, Pwr | 3.0 |

vee=mon sollector to emitter volm; $\mathrm{kc}=$ mox collector current; hFE=typical current soin; Pwr Out=Typical Dower outpup. "= collector to bose voltoge: $t=$ hit. AC ourput: $\$=\mathrm{P}$ c max collector dissipation $25^{\circ} \mathrm{C}$; $(M)=$

Lafayeffe－Famous For SEMICONDUCTORS SYLVANIA TRANSISTORS AND DIODES


| Type | MoI <br> Dis <br> Mw | $\begin{aligned} & \text { Maz } \\ & \text { VCs } \end{aligned}$ | Mon I6 Mo | AC <br> Cur <br> Goin | CuI off Me | Use | $\begin{aligned} & \text { Net } \\ & \text { Eoch } \end{aligned}$ | Type | Mor <br> Dis <br> Mw | $\begin{gathered} \text { Mor } \\ \mathrm{V} \subset \mathrm{~B} \end{gathered}$ | $\begin{gathered} \mathrm{Moz} \\ \mathrm{IE}_{2} \\ \mathrm{Mc} \\ \hline \end{gathered}$ | ac Cur Gain | Cur <br> off <br> Me | Use | Net <br> Eath | Type | MaI <br> Dis <br> Mw | Moz VCB | $\begin{gathered} \text { Mar } \\ \text { le } \\ \text { Ma } \end{gathered}$ | $\begin{aligned} & \text { AC } \\ & \text { Cur } \\ & \text { Gain } \end{aligned}$ | CuI <br> off <br> Me | Use | Net <br> Eoth |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20034 | 50 | －40 | －30 | $1 \%$ | － 4 | AF＊ | 3.20 | 2w252 | 6. | 15 | 20 | 25 | 0.0 | RF\％ | 1.72 | 2N420 |  | －4t | －5． | 45 | 5 | INS | 4.35 |
| 2 N 3 S | 51 | 40 | 100 | 7 3 | － | AF． | 1.12 | 2N296 | 23w | －899 | －2A | 308 | － | Р以界 | 5.95 | 2N425 | 150 | $-20$ | －400 | 10 | 4 | Sw： | 4.35 |
| 2N68 | 1．3W | －30 | －1．5A | 40\％ | 4 | 「W以\％ | \＄．16 | 2N301 | $12 w$ | $-411$ | －iA |  |  | PWR ${ }^{\text {P }}$ | 2.89 | 2N426 | 150 | －18 | $-100$ | 40 | 6 | Sw： | 4.30 |
| $2 \mathrm{N94}$ | 311 | 20 |  | 5 | 3 | RF＊＊ | 1.36 | 2N301A | 12 W | －60 | －1i |  |  | PWR | 4.77 | 2N427 | 1503 | －13 | $-400$ | 55 | 11 | Sw： | 6.50 |
|  |  |  |  |  |  | 1 F |  | 2N306 | 511 | 20 |  | 75 | ． 6 | AF＊ | ． 20 | 2N423 | 130 | －12 | －100 | \％ 0 | 17 | Sw | ． 000 |
| 2M94A | 311 | 20 | so | 25 | 6 | HF＊ | 5.60 | 2N307 | 10w | －35 | －iA | $30 \%$ | － | Pいて＊ | 1.35 | 2N436 | 100 | 30 |  | 23 | 3.75 | Sw： | 4.00 |
|  |  |  |  |  |  | $1 F$ |  | 2N307A | 17w | －35 | －2A | 308 |  | PW\％＊ | 2.25 | 2N43EA | 150 | 30 |  | 25 | 9.75 | sw＊ | 4.40 |
| 2N95 | 1．5w | 30 | 1．5A | 40\％ | 4 | PWR＊ | 5.16 | 2N312 | 1 （10） | 15 | 200 | 304 |  | Sw＊ | 8．00 | 2N435 | 100 | 30 |  | 3.7 | 7.5 | Sw | 5.60 |
| 2N108 | W | －30 |  | 408 | 4 | Рแ\％ | 4.76 | 2N322 | 240 | －20 | －gin | 48 | 3.0 | AF＊ | 1.93 | 2N439A | 150 | 30 |  | 35 | 7.5 | SW＊ | 6.15 |
| 2N102 | 1w | 30 | 8 mm | $40 \%$ | 4 | PWR1 | 4.76 | 2N323 | $1+10$ | －16 | $-100$ | 00 | 2.5 | AFt | 1.79 | 2N440 | 151 | 30 |  | 65 | 15 | SW＊ | ． 00 |
| 2N104 | 150 | －30 | 361 | 44 | 11.7 | AFP | 2.23 | 2N324 | 140 | －16 | （101 | s． | 3.0 | Art | 1.93 | 2N4HOA | 1.50 | 30 |  | 65 | 15 | W\％ | ． 80 |
| 2w109 | 50 | －25 | － 70 | 708 | － | AF＊ | 1.59 | 2N326 | 7w | 35 | $\pm$ | （th\％ | ． 15 | PWR＊ | 19.20 | 2NS15 | 50 | 18 | 10 | 7.5 | 3 | 1F＊ | 1.42 |
| 2N123 | 110 | － 20 | －125 | 31 | 5 | 8w | 9．24 | 2N3 32 | 150 | 43 | 25 | 15 | 10 | AF＊ | 9.45 | 2NS16 | 50 | 18 | 10 | 7.3 | 3 | 15 | 1.49 |
| 2N139 | 35 | －16 | $-15$ | 45 | 5 | 15 | 1.68 | 2N333 | 1514 | 45 | 25 | 30 | 12 | AF＊ | 16.20 | 2N517 | 50 | 18 | 10 | 7.5 | 3 | $1{ }^{\circ}$ | 1.76 |
| 2N140 | 35 | －18 | － 15 |  | － | m110 | 1.76 | 2N334 | 1341 | 45 | 25 | 39 | 13 | Ar＊ | 16.20 | 201519 | 300 | 15 |  | 23 | 0.5 | W | 60 |
| 2N141 | 1.53 | －60 | －mim | 408 | 4 | AFt | 9.82 | 2N335 | 151 | 45 | 35 | 86， | 14 | AF： | 21.60 | 2N534 | 225 | －45 | 500 | 35 | 2.0 | W | ．98 |
| 2N142 | 1．5w | co | min | ＋08 | 4 | AF＊ | 9.92 | 2N336 | 150 | 45 | 25 | 120 | 15 | AF＊ | 26.50 | 2N52S | 225 | $-45$ | 515 | 3018 | 1.0 | AF＊ | 3.12 |
| 2N143 | 1 w | －10 | mem | 4018 | 4 | AFP | 9.52 | 2N337 | 125 | 45 | 90 | is | 30 | AF＊ | 19．15 | 2 NS 44 | 80 | 18 | 11 | 60 | 10 | MF\％ | 1.89 |
| 2N144 | $1{ }^{1}$ | 60 | $\cdots$ | 308 | 4 | AF＊ | 9.52 | 2N338 | 125 | 43 | 211 | 90 | 43 | $\mathrm{AF}^{\text {a }}$ | 25.80 | 2N554 | $101{ }^{\circ}{ }^{\text {P }}$ | $-28$ | 34 | 30 | r | AF＇ | 1.35 |
| 2 N 255 | 8．5w | $-30$ | －sa | 80 | ． 008 | PW\％ | 2.85 | 201350 | $10 w$ | － 40 | －34 | 30 | － | PWR | 3.14 | 2MS56 | 100 | 25 | 2 mm | 50 |  | $5{ }^{5}$ | 5.60 |
| 2N16日A | es | 15 | 20 | 40 | R． 6 | 1F＊ | 1.97 | 2N3S1 | 10w | －40 | －3A | 45 |  | PWR ${ }^{\text {P }}$ | 3.34 | 2NS57 | 100 | 20 | 20 M | $30:$ |  | sw | 90 |
| 2N369A | 65 | 25 | 20 | 72 | 9.6 | 15： | 2.43 | 2N3S6 | 104 | 20 | 500 | 308 | 3 | SW＊ | 5.05 | 2NSS8 | 100 | 15 | $20 \%$ | ग5： |  | Sw | 5.60 |
| 2N175 | 30 | $-10$ | －2 | As | 0.85 | Ar | 2.40 | 2 N 357 | 104 | 20 | 506 | 308 | 6 | SW＊ | 6.35 | 2N576 | 200 | 20 | $40 \%$ | 408 |  | Sw＊ | 8.72 |
| 2N176 | 10w | $-30$ | －3A |  | ．non | PWR | 2.89 | 201358 | 100 | 20 | 500 | 30 \％ | － | SWe | 0.65 | 2NS76A |  |  |  |  |  | Cor | 0.40 |
| 2Nis3 | 50 | 189 | 50 | 7.3 | 3 | osc | 1.45 | 2N370 | 80 | －20 | $-10$ | 105 | － | 20510 | 2.80 |  |  |  |  |  |  | ir |  |
| 2N194 | 30 | 188 | 50 |  | 3 | $311 \times 0$ | 1.52 |  |  |  |  |  |  | Ampt |  | 2NSA5 | 120 | －25 | －200 | 40 | 5 | swt | 2.90 |
| 2N194A | 50 | 204 | 50 | 8 | 3 | 3 mx ＊ | 1.44 | 2N37： | 30 | 20 | $-10$ | คо |  | zome | 2.95 | 2N586 | 250 | －45 | －250 | 601 |  | SW\％ | 3.05 |
| 2N211 | 50 | 105 | 50 | 10 | 3 | osc． | 1.91 |  |  |  |  |  |  | Osct |  | 2NS91 | 100 | －32 | －40 | 70 |  | DR＊ | 1.15 |
| 2N212 | 30 | 124 | 50 | 20 | 6 | rusye | 1.49 | 2N372 | 0 | 20 | $-10$ | 90 | － | 20me | 2.70 | 2N624 | 150 | －30 | $-10$ | 31 | 13 | HF． | 2.80 |
| 2 m 213 | 50 | 40 | 100 | 340 |  | DHiv． | 1.12 |  |  |  |  |  |  | M18＊ |  | 2N677 | sow | － 50 | －15A | dint |  | sw | 3.38 |
| 2N213A | 30 | 400 | 104 | 300 | － | prive | 1.17 | 2N373 | 80 | －25 | － 10 | 60 | 30 | 151 | 1.73 | 2NG77A | 50w | －601 | －15A | 608 | － | SW＋ | 4.15 |
| 2N214 | 180 | 40 | 100 | 758 | － | AF． | 1.36 | 20374 | － | －25 | －10 | 80 | （1） | CONV | 1.81 | 2N6776 | 30\％ | $-\infty 0$ | －15A | $60 \pm$ | － | SW： | e． 24 |
| 2N214MP | 180 | 40 | 100 | 754 |  | AF＊＊ | 2.71 | 2N377 | 150 | 25 | 200 | 40： | － | SW＊ | 3.20 | 2N6786 | 50w | －100 | －13A | 608 | － | Sw＇t | 12.55 |
| 2N216 | 50 | 181 | 10 | 7.3 | ． 3 | IF＊ | 1.68 | 20381 | 200 | －25 | $-200$ | 458 |  | OH： | 1.36 | 2N678 | 75 | －30 | －15A | 75 | － | SW\％ | 4.77 |
| 2N217 | 50 | －23 | － 50 | 70\％ | 1 | AF＊ | 1.60 | 2N382 | 200 | －25 | －200 | 768 |  | DR | 1.68 | 2N678A | 125 | －40 | －154 | 75 |  | SWt | 5.86 |
| 2N213 | 35 | －16 | $-100$ | － | 8 | Mist | 1.77 | 2N383 | 200 | －306 | $-200$ | 808 |  | AFt | 2.01 | 2NG79 | 130 | 25 | 200 | 208 | 2 | sw＊ | 1.68 |
| 2N228 | 50 | 40 | － | 00 | ． 6 | AF＊ | 1.60 | 2N3先4 | 120 | $-30$ | －10 | （n） | 100 | VHF\％ | 6.44 | 2N1008 | 137 | －20 | －300 | 00 | 1 | AFt | 1.43 |
| 2N229 | so | \％ | 40 | is | 3 | 1F． | ． 63 | 2N3AS | 1511 | 25 | 200 | 708 | 4 | Sw： | 1.70 | 2N1008A | 187 | － 10 | －3000 | 00 |  | AF＊ | 2.11 |
| 2N233 | 50 | 10 | 30 | 4.5 |  | 1F＊ | ． 65 | 2N388 | 150 | 25 | 200 | 110 | R | sw。 | 5.20 | 2 m 1058 | 50 | 20 | 30 | 17 | 6 | Mix | 1.52 |
| 20233A | 50 | 184 |  | 5 | 3 | RFP． | 1.09 | 2N398 | 50 | $-105$ | －100 | ${ }^{\text {a }}$ 4 |  | Swe | 2.25 | 2N1059 | 180 | 40 | 1 m | 1 cmi | － | AF＊ | ． 96 |
| 2N235A | 25w | －40 | －38 | 40 |  | PWR | 2.89 | 2 m 399 | 10w | －40 | －31 | 508 | ． 4 | PWR | 3.43 | 2N1101 | 180 | 20 | 100 | $50 \%$ | 5 | AF： | .72 |
| 2N2358 | $25 w$ | －40 | －3A | no | － | Pwret | 3.25 | 2 N 401 | 101 | －40 | －3a | 51： | 1 | PWR4 | 3.11 | 2N1102 | 180 | 40 | 100 | $50 \%$ |  | AF＊ | ． 75 |
| 2N236日 | 45w | －40 | －3A | BO |  | PWR＊ | 3.97 | 2N404 | 120 | －24 | $-160$ |  | 12.0 | Sw | 2.80 | 2N1114 | 150 | 25 | 200 | 1818 | 7 |  |  |
| 2N241A | 200 | －25 | －2010 | 73 | 1.3 | AF＊ | 1.92 | 2N40S | 130 | －12 | －70 | 33 |  | MR＊ | .96 | 2N1264 | 50 | －20 |  | 15 |  | RF | 1.30 |
| 2 N 241 | 23 w | －45 | $-21$ |  |  | PINR＊ | 1.89 | 2N406 | 150 | $-12$ | $-70$ | 35 | － | AFP | ． 96 | 2N1265 | 80 | $-10$ | － | 23 | － | 1F＋ | ． 65 |
| 2N247 | 8） | －35 | $-10$ | 60 | 0 | RF9 | 3.05 | 2 N 407 | 130 | $-20$ | $-70$ | A5 | 4 | AFt | 1.04 | 2N1266 | RU | $-10$ |  | 22 |  | 1 F | ． 65 |
| 2N250 | 13W | －360 | －2A | 64 | － | PWR | 3.56 | 2N40R | 250 | $-20$ | －70 | 45 | $\cdot 4$ | AFt | 1.04 | －s＇nn： | －－Npn： | 1－VCE | － BC | －${ }^{1}$ | arched | pair； | 370， |
| 2 N 255 | 6 W | －15 | －34 | 408 | ． 2 | Pいに， | 1.35 | 2N409 | 80 | $-12$ | $-15$ | 4＊ | 03.8 | IFt | 1.36 | 2N371． | 2N372． | 2 N 37 | 2N37 | 2N1 | 284 | are dri | sype |
| 2M2S6 | O ${ }^{\circ}$ | －30 | －34 | 408 | ． 2 | PWRt | 1.57 | 2N410 | ma | $-12$ | $-15$ | 48 | ${ }^{6.8}$ | 1P6 | 1.36 | ＋t－at ${ }^{\text {Hatic }}$ | $\mathrm{H}^{\circ} \mathrm{C}$ ；${ }^{\text {a }}$ | F－Aut | －Fregu |  |  |  | RF－ |
| 2N257 | 25 W | －$\$ 0$ | －2A | 60 |  | PWilt | 2.94 | 2ME11 | 81 | －12 | $-15$ | 75 | 10 | convt | 1.44 | Hartio Fre | बनurncy： |  | $\begin{aligned} & \text { lermedie } \\ & \text { lllator } \end{aligned}$ | Fren | －Con |  | $\begin{aligned} & \text { when: } \\ & \text { DR } \end{aligned}$ |
| 2N270 2N2BA | 13015 | -25 -40 | -75 -31 | 781 1301 | － | AFw | 1．74 | 2N4 2N4 2 | 80w | -13 -50 | -15 -38 | 75 <br> 45 | .$^{10}$ | CONV | 1.44 3.51 | MIX－Mix |  |  | illator： Frequ | CONV <br> ney： | 12id－in | crier： njector． | DR－ |
| 2N2BA | 25 w | －40 | －3A | 1301 | － | PWJE | 3.89 | 2N4： 9 | 12w | $-50$ | －3A | 45 | ． 3 | PWR | 3.51 | irluer： | VRF－Ve | ry His | Frequ |  | NJー | injector |  |

## GERMANIUM AND SILICON DIODES AND RECTIFIERS

ABBREVIATIONS，MP－motched Doir；Mix－Mixer Ended，Vid Del－Video Detector；GP－General Pur monium；Comp－Computer；Min－Minioturej HT －High Ended；Vid Del－Video Detector；GP－General Pur
ance；Imp－Impedonce；Rect－Rectifier；Germ－Ger．
monium；Comp－Computer：Min－Miniotureg MT－High Temperetures S－Silicon；BB－Brood Bond；SW－Stond－ Temperat ures S－Silicon；BB－Brood
ing Weve；H－High；Rec－Recovery．

MICROWAVE DIODES，CRYSTAL DIODES AND RECTIFIERS

| Tme | Der | met | Trpe | bexcriprion |  | Type | Description | Ner |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1N2189 | 3ax，me simm | 1：189 | ${ }^{1 \times 2} 4$ |  | 12．15 | 1Nisio |  | 1：35 |
| IN118M， |  | 2．${ }^{2} .65$ | ［NT3A | ${ }_{85}{ }^{3}$ |  | N17 | \％\％3uma |  |
|  | Mon me vin | 3．15 |  |  | 31：\％ | N15 | צ． |  |
|  |  | ${ }^{2} .75$ | \％${ }^{\text {ansimat }}$ |  | 9s．${ }^{5}$ |  | ， |  |
| ${ }^{1 \times 1 N 21010}$ | \％pmin Mix Lix | Si．70 | Tmy ${ }^{\text {anm }}$ | N10 | 120．\％ | Nintiza， | 109 \％Cr－vin |  |
| ${ }^{\text {N／N2 }}$ |  | \％s | imyan | ， |  | ${ }_{1}^{1 N 12}$ | \％Gr．vin |  |
| in ${ }^{1 / 21}$ | yink mo min | 1 | 2nsjoma |  | 12\％${ }^{\text {50 }}$ | ${ }^{\text {d }}$ N14\％ |  | 75 |
| 1N2E |  |  |  |  | 0 |  | \％ | \％ |
|  |  |  | ${ }_{\text {in }}$ | 1000 |  | ${ }_{1}{ }^{1} 19$ |  | ${ }^{\circ}$ |
| cick |  | 1.18 |  | $310 \%$ \％ 100 | \％ |  |  | ${ }^{85}$ |
|  | M11 | （ | ${ }^{1} \mathbf{N G 6 5}$ | gill v：Gilum mack Ren | 3 | TN198， | ${ }^{\circ} \mathrm{H}$ | ${ }^{20}$ |
| ${ }^{\text {a }}$ |  | 3．${ }^{\text {a }}$ |  |  | 43 |  |  | 20 |
|  | M1P ${ }^{\text {Na }}$ | 4．75 | TNTOAT |  | 7 | 1N353 | 1 | 5 |
|  | if．maz me．Nix | 5：45 | －${ }^{\text {NTOAOM }}$ |  | 5 |  | \％io vo | ${ }^{15}$ |
|  |  | 41 |  |  |  | ${ }^{12} \mathbf{N}$ |  |  |
| 1N2． |  | 11. | ${ }^{1 \times 17}$ | \％rin | ${ }^{20}$ | ${ }_{\text {a }}^{1}$ | 2 | 23 |
|  |  | ${ }^{16} \mathbf{1}$ ． 75 | ${ }^{1 \times 17 \%}$ | 3i1 vi． 20 | 7 7：50 |  |  |  |
| ${ }^{1}$ |  | 19.45 | 1N7 ${ }^{\text {a }}$ M， |  | 10．80 |  | － |  |
| 1N2 |  |  |  |  | citis |  |  | \％ |
| ， | iNs3 |  | 1N7MAM |  | 17．30 | 1N3sin |  |  |
|  | ${ }^{\text {cosem }}$ |  |  | NTRAMA |  | ${ }^{\text {in }}$ |  | \％ |
|  |  | 25：20 | ${ }^{\text {chem }}$ |  |  |  | Wiv |  |
| ${ }_{\text {N }}$ | 12 |  |  |  | 66：9\％ | ${ }^{1 \times 1}$ |  | ${ }^{6}$. |
|  |  |  | 1N\％1 | Stit max mark |  |  | （1） | 70 |
| ${ }^{\text {a }}$ | If min mat |  | 1Nsiat | Sy Un\％ |  |  | OF | so |
| 1N12． | ammy mer |  | Nasan |  |  | Natisma |  |  |
|  | 1 |  | 1N912 | ${ }_{\substack{100}}^{10}$ |  |  | 隹 |  |
|  |  | \％ | ${ }^{1 \times 93}$ | ， | 2.6 | ${ }^{1}$ | \％r intic | 47．18 |

[^2]|  | Type |
| :---: | :---: |
|  | IM4160M |
|  |  |
|  | ${ }^{1} \mathbf{N} 417$ |
|  | ${ }_{\text {iN4 }}{ }^{\text {d }}$ |
|  |  |
|  | （1N4．46 |
|  | ${ }^{1 \times 448}$ |
|  | 1N449 |
|  | 1 NasO |
|  | ${ }^{1} \times 1$ Hest |
|  | 1 10456 |
|  | 1N457 |
|  | －${ }^{1 N 458}$ |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  | 1N486a |
|  | ${ }_{\text {a }}{ }_{\text {M S }}$ |
|  | 1N625 |
|  | ${ }_{1}^{1} \mathbf{N} 626$ |
|  | $\mathrm{iNG}^{2 / 5}$ |
|  | 1 N 629 |
|  | $1 \mathrm{~N} 63{ }^{\text {a }}$ |
|  | 1N630A |
|  | 1N631 |
|  | ${ }^{1} \mathbf{N G 3 2}$ |
|  | ${ }_{1}^{1 N 63}$ |
|  | ${ }_{1}$ N636 |
|  | ${ }^{1 N 695}$ |
|  | 1NaOS |
|  |  |
|  | 1NG31 |
|  | 1 N 833 |
|  |  |
|  | ［Nil3z |
|  | 101610 |
|  | ${ }_{1}{ }^{\text {N } 16127}$ |
|  | $0 \cdot 650$ |
|  | Sm－200 |
|  | 58．500 |





stod Mu．


# HUGHES - SEMICONDUCTORS - GE (6f) <br> GERMANIUM <br> More thon 100 , O00 General electric transistor manual 

## TRANSISTORS

 used the second edition of this involuoble manual. This shird edition is $50 \%$ lorger ond mareuseful G.E. Transistors. Listings of over 175 JETEC troes, Cirruit Diogroms, Trons istor Construction Technique. Symbols,
New plostic binding.
BX.P-P-Postpoid in U.S.A.

| TrPE | piv | $\operatorname{maximum~}_{\text {c }}$ |  |  |  |  | DIODE | RECTIFIERS |  |  |  | SURGE* ${ }_{\text {Ner }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | I CYCLE Surge: | $\underset{\substack{\text { NET } \\ 1-99}}{ }$ | $\begin{aligned} & \text { MET } \\ & \text { 100, } \end{aligned}$ |  | RIV150150200200 | $\begin{aligned} & \text { MA } 00 \\ & 8000 \\ & 880 \\ & 800 \end{aligned}$ | 135 | İA | \| 2.20 | $1001$ |
|  |  |  |  | 135 |  |  |  |  |  | 15A | 2.30 | 1.55 |
|  |  |  |  | 135 |  |  |  |  |  | 15A | 2.40 | 1.00 |
| in253 | 95 | 1000 | 135 |  | 4A | 2.20 |  | 1.45 |  |  | 1335 | 15A | 2.85 | 1.90 |
| IN254 | 190 | 100 | 135 |  | 1.34 | 2.55 | 1.70 | inctia | 300 | 800 | 135 | 15A | 2.85 3.60 | 1.90 |
| IN2SS | 380 | 100 | 135 | 5A | . 10 | 3.40 |  | 100 | 800 | 135 | isA | 3.80 | 5 |
| IN256 | 570 | 200 | 135 | . ${ }^{\text {a }}$ | 0.35 | -6.9 | inctia | 100 | 800 | 135 | 15A | 4.95 |  |
| 1N332t | 400 | 400 | 150 | 0A | . 25 | 6.15 | inol | 500 | 800 | 135 | 15A | 0.30 |  |
| in333t | 400 | 200 | 150 | ${ }_{\text {a }}$ | 0.25 | 6.15 | Not | ( 500 |  | 135 | 15A | \%.30 | 4.75 |
| IN33at | 300 | 400 | 150 | 10A | 0.95 | 4.65 | inolia | 5000 | -00 | $\begin{array}{r}133 \\ 135 \\ \hline\end{array}$ | 15A | 9.30 |  |
| in33 | 300 | 200 | 150 | 3A | 6.95 | 4.85 | Not | 600 | 800 | 135 | 15A |  | 20 |
| iN33 | 200 | 400 | 150 | 10A | 4.80 | 3.20 | N661 | 50 | S00 | 135 | 15A |  |  |
| 33 |  | 1.0A | 1 50 | 20A | 4.80 | 3.20 | in1093 | 500 | 425 | 100 | 15A | 5.25 | 5.00 |
| in339 | 100 | 1.04 | 150 | 10A | 3.50 | 2.35 | iN1 | ${ }^{600}$ | 350 500 | 100 | 15A | 7.80 |  |
| in3401 | 100 | 200 | 150 | sA | 3.50 | 2.35 | inliol |  |  |  | 15A | 1.10 2.10 | 1.40 |
| iN3411 | 400 | 400 | 150 | 10A | 0.35 | 4.25 | int |  | 500 | 100 | iSA | 2.85 |  |
| in34 | 100 | 200 | 150 | SA | 0.35 | 4.25 | N1 | 400 | 500 | 100 | isa | 4.25 | 2.85 |
| 34 |  | 100 | 150 | 10A | 4.25 | 2.85 | iN1I | 100 | SA | 850 | 15A | 2.20 |  |
| in |  | 200 | 150 | 3A | 4.25 | 2.85 | INTII | 200 |  | 850 | ${ }_{\text {A }}$ | 2.55 |  |
| IN34S1 | 200 | 400 | 150 | 10A | 2.85 | 1.9 | INII | 300 | 1.5A | ${ }_{850}$ |  | 15 |  |
| in346 ${ }^{\text {+ }}$ | 200 | 200 | 150 | sA | 2.85 | 1.9 | INilis | 1400 | - 1.5 A | ${ }_{850}^{85}$ | isa | 5.10 | 3.40 |
| in3481 | 100 | 400 | 150 | 10A | 2.10 | 1.4 | NT1 | 500 | - 1.54 | 850 | isa | 7.35 | 3.40 |
| in3s | 100 | 200 | 150 | sa | 2.10 | 1.4 | Nil | ${ }_{600}$ | 1.5A | 85 | isA | 10.35 | 6.90 |
| indet |  | 500 | 100 | 154 | 2.20 | 1.45 | iN148 | 100 | 250 | 125 | 15A | 75 | So |
| INA4 | 200 | 500 | 100 | 15A | 2.55 3.15 | 2.10 | IN1488 | 200 | 250 | 125 | 15A | 1.00 |  |
|  |  | 500 | 100 | 15A | 3.15 | 2.10 | INIA89 | 300 | 250 | 125 | isa | 1.30 |  |
| IN4438 | 400 | 500 | 100 | 15A | -. ${ }^{\text {a }}$ | 2.95 | IN1490 | 400 | 250 | 125 | isa | 1.65 | 1.10 |
| Inc44B | 500 | 425 | 100 | 15A | 0.30 | 4.20 6.95 | W1491 | 500 | 250 | 125 | isa | 2.20 | . 4 |
| IN+458 | S0 | 350 500 | 100 100 | 15A | 1.05 | ${ }^{6} .85$ | iN14 | 600 | 250 | 95 | 15A | 2.75 | 1.85 |
| ins33 | 100 | 500 | 100 | 15A | 1.20 | . 80 | 1N1692 | 100 | 250 | 100 |  | 0 |  |
| Ins38 | 20 | 300 | 100 | 15A | 1.00 | 1.05 | IN1693 | 200 | 250 | 100 |  |  | - |
| 538 | 300 | 500 | 100 | 1sa | 2.00 | 1.35 | (N169 | 3 | 250 <br> 250 | 100 |  | 1.10 |  |
| INS4O* | 400 | 500 | 100 | 1sA | 3.00 | 2.00 | IN1695 |  | ${ }_{25} 25$ | 145 | 3000 |  |  |
| insso | 100 | ${ }^{800}$ | 135 | 15A | 3.50 | 2.15 2.35 | IN21548 | S0 | 25A | 145 | 300A | 5.20 |  |
| inss2 | 300 | ${ }_{800}^{880}$ | 135 <br> 135 <br> 135 | 15A | 4.25 | 2.35 2.85 | IN215s | 100 | 25a | 145 | 300 A | 6.80 |  |
| ins 53 | 400 | 800 | 135 | 15A | 5.70 | 3.80 | in215s8 | 100 | 25A | 115 | ${ }_{300 \mathrm{~A}}$ | -8.80 |  |
| ins54 | 500 | 600 | 135 | 15A | 7.90 | S. $\begin{aligned} & \text { S.25 } \\ & 6.90\end{aligned}$ | in21568 |  |  | 145 | 300 an | 8.60 |  |
| insss | 600 | 250 | 135 100 | 15A | 12.35 | 6.90 8.00 | in21s7 | 300 | 25A | 145 | 300A | 13.00 |  |
| INS61 | 1006 | 250 | 100 | 15A | 16.50 | 11.00 | IN2157R | 300 | 25A | 145 | 300A | 13.50 |  |
| inse2 | ${ }_{800}$ | 400 | 100 | 15A | 12.75 | 8.50 | 1N215 | 400 | 25a | 145 | 3004 | 19.50 |  |
|  | 500 | 400 <br> 400 <br> 00 | 18 | $1{ }_{\text {dia }}$ | 17.25 | 11.50 | (1N21588 | 400 500 | 25a | 143 145 | ${ }_{300 A}{ }^{300}$ | 19.50 26.10 |  |
| imspon |  | 400 | 100 | 10A | 1.50 | 1.00 | iN2158R | 500 | 25a | 145 | ${ }^{3000}{ }^{\text {a }}$ | 26.10 |  |
| iNoct | 100 | 400 | 100 | 10A | 1.75 | i. 18 | IN21 |  | 25A | 145 145 | 3 300A | 40.0040.00 |  |
| N 601 | 150 | 400 | 100 | 10A | 1.45 | . 95 | in |  |  |  |  |  |  |
| N601a |  | 400 | 100 | 10A | 1.90 | 1.25 | GERM | MANIU | maximum |  |  |  | NE1. |
| 1N602 | 200 | 400 | 1000 | 10A | 1.65 | $1.10^{\circ}$ | rrpe | piv |  |  |  |  |  |  |
|  |  | 100 <br> 400 <br> 100 | 100 100 100 | 10A | 1.109 | - 1.35 |  |  |  |  |  | SURGE. |  |
| inco3 |  | 400 | 100 | 10a | 3.00 | 2.00 | INPI | 100 | 150 |  | 65 | 254 | 8 |
| incos | 400 | 400 | 100 | 10a | 3.30 | 2.20 | iN92 | 200 | 100 |  | s5 | 25A | 1.90 |
| ingora | 400 | 400 | 100 | 10A | 4.50 | 3.00 | N03¢ | 300 | 75 |  | S5 | 25A | 2.65 |
| insos | 500 | 400 | 100 | 10A | 5.25 | 3.50 | 1N15T | 100 | S00 |  | S5 | ${ }^{25 A}$ | 2.15 |
| incosa | 500 | 400 | 100 | 10a | 6.15 | 4.10 | in152 | 200 | 500 |  | 55 | 25A | - |
| IN60 |  | 400 | 100 | 10A | 7.90 | 5.25 | Nis3 | 300 | 500 |  | 55 | 2SA | 5.50 |
| incoi | 50 | 400 | 100 | 10A | - | -0.00 | (NTIS8. | 380 100 | 100 |  |  | 10A | 5 |
| incora | 50 | ${ }_{800}^{800}$ | 135 135 | 15A | li. 2.10 | 1.20 <br> 1.40 | in308 | 200 | 100 |  | ${ }_{85}$ | 10 a | 2.55 |
| insob | 100 | 800 | 135 | 15A | 2.00 | 1.35 | t similar to INIIIS series but with lower leokoze curren - $60 \operatorname{CPS}(\$)$ mIL-rype ovoiloble Av.shpo.wt. all ifems 20 z |  |  |  |  |  |  |
| incosa | 100 | 800 | 135 | 154 | 2.25 | 1.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

HUGHES SEMICONDUCTORS
SILICON TRANSISTORS (NPN)
 f = RMS Power distipotion - Stobillized
$U_{n}=$ Unliunction Af $=$
Av. shpg. wt. all items 2 oz.

| TYPE | $\underset{\text { AMP }}{\max }$ | $\begin{aligned} & \text { NET } \\ & 1.99 \end{aligned}$ | PiV | TYPE | $\max \dagger_{1}$ AMP | $\begin{aligned} & \text { NET } \\ & \text { 1.99 } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C35A | 16 | 53.00 | 100 | C36A | 10 | 42.00 |
| C358 | 16 | 80.00 | 200 | c368 | 10 | 84.00 |
| C3sc | 16 | 160.00 | 300 | C36C | 10 | 128.00 |
| C350 | 16 | 228.00 | 400 | C360 | 10 | - |
| C35F | 16 | 41.00 | 50 | C36 | 10 | 33.00 |
| C356 | 16 | 66.00 | 150 | C360 | 10 | 53,00 |
| C35M | 16 | 120.00 | 250 | C364 | 10 | 95.00 |
| C35U | 16 | 38.00 | 25 | Cisu | 10 | 30.0 |




# ISEMICONDUCTORS－CAPACITORS 

ZENER DIODES
Reference Element
（Fig 1） $\mathrm{Av}^{\text {imped of }} 10 \mathrm{mo}$ ．

| JEDEC Number | SEMCOR Number | $\begin{aligned} & \text { Temp. } \\ & \text { Coef. } \\ & 0<0, ~ \\ & \hline \end{aligned}$ | Man．mV change temp． Pang | $\text { 息 } 10 \mathrm{ma} \text {. }$ | $\begin{aligned} & \text { Net } \\ & 1.99 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1x2103 | 1210 | 0nt | 33 | 9．0－0．m | 6.90 |
| 1N216i3A | 12104 | 00.5 | 31 | 9．2－9．01 | 8.63 |
| 1N2114 | 1211 | nos | 83 | 9．0－9．k | 8.63 |
| 1N214id | 1211A | 005 | 86 | 9．2－9．6 | 10.35 |
| 1N216in | 1212 | ．0n5 | 115 | 9.0 | 10.35 |
| 1才216йA | 12124 | no： | 118 | 9．2－9 | 12.65 |
| 1N21fin | 1213 | ．001 | T | 0．0－9．＾ | 14.95 |
| iselmitia | 12134 | 001 | 〕 | －．2－9．4 | 18.40 |
| N216\％ | 1214 | ．0n1 | 17 | 9．0－8．4 | 19.55 |
| iN21git | 1214A | ． 001 | $1-$ | 9．2－3．6 | 25.00 |
| 15210\％ | 1215 | ．0n） | 2： | 9．0－9．． | 28.75 |
| iN216x．a | 12154 | ．n13 | 21 | 9．2－9．8 | 38.00 |
| 1N2169 | 1216 | ¢0ns |  | $9.0-8.8$ | 50.60 |
| 1x21bila | 1216A | Onos | ！ | 9．2－9．6 | 57.50 |
| ：$\times 2170$ | 1217 | ． 0005 |  | 9．0－9．8 | 57.50 |
| 1N21704 | 12174 | ． 0 nos | 9 | 9．2－0．4 | 69.00 |
| 1N21\％1 | 1218 | ．000 | 12 | 9．0－9．＾ | 69.00 |
| 101．a | 12184 | ． 0005 | 12 | 0．2－9．6 | 86.25 |

## Low Power

Av．shpg．wt．， 2 oz．tolerance $\pm 10 \%$ ．SEMCOR No．in－
 series＠ 150 mw ． 21 ＇some os＇$Z$＇except only one anode deduct $10 \%$ from＇ 2 ＇prices for＇$Z T$

| PART jEDEC | $\operatorname{NUMB}_{\operatorname{SEM}}$ |
| :---: | :---: |
| バ192\％ | 52 |
| 1N－192x | S2 |
| 1N－1929 | S2 |
| 1－1930 | 52 |
| 1N－19：4 | S2 |
| 1N－1932 | 52 |
| 15－19：33 | sz |
| 1－1934 | 52 |
| 1N－1935 | S2 |
| 1N－193tic | S2 |
| 1N－193\％ | S2 |
| 1N－19：3\％ | Sz |
| 1N－1939 | Sz |
| 1N－1：10 | Sz |
| 1N－1：11 | S2 |
| N－19．12 | S2 |
| 18－1：13：3 | Sz |
| 1N－181．1 | S |
| 1－1054 | 12 |
| 1心．195．5 | 12 |
| 1N－19as | 12 |
| 15．196\％ |  |
| 1N－1058 | 12 |
| 1N－1959 | 12 |
| 1N－1900 |  |
| 1N－198！ | 12. |
| 1N－1962 | L2． |



Medium Power

| $\begin{aligned} & \text { PART } \\ & \text { BEDEC } \end{aligned}$ | UMEER <br> －SEMCOR | $\begin{aligned} & \text { NET } \\ & i .99 \end{aligned}$ | $\begin{aligned} & \text { PART } \\ & \text { SEDEC } \end{aligned}$ | MBER SEMCOR | $1.99$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 15： | Pz－8．2 | 6.25 | 1N－1975 | LPZ－8．2 | 6.25 |
| 1－1×02 | P2－10 | 6.25 | 1N－1xis | LP2－10 | 6.25 |
| 15－1se9 | P2． 12 | 6.25 | 1N－1NT\％ | LPR－12 | 6.2 |
| 1N－1x！d | PI－15 | 6.25 |  | LP2． | 6. |
| （10 | PX－18 | 6.25 | 1N－1x－ | 1PZ．18 | 6.25 |
| 1N－1x！00 | PZ． 22 | 6.25 | 1ญ－3ハx10 | LPZ－22 | 6.25 |
| 18－1ma | P2－27 | 6.00 | バーいい | LPZ．27 |  |
| N－1 | P2．33 | 6.00 | バ1ヵッ2 | LPZ．33 | 6.0 |
| －1－9 | P2－39 | 6.00 | バー1ヘx！ | LP2．39 | 6. |
| 1x．1：0m | P2．47 | 6.00 | 18゙1x＋4 | LPZ．47 |  |
| バ－1911 | P2． 56 | 6.00 | ハ－1×ni | LP2．56 |  |
| 1N－1302 | PZ．68 | 6.00 | 1N－1mat | LPI．68 |  |
|  | PZ．82 | 6.0 | バーが， | $1 P^{2}$ |  |
| N．1！ | P2．10 | 6. | N | LPZ |  |

## RECTIFIER DIODES

## Low Power

Av．shpg．wl． 2 ot．SEMCOR NO，indicates peak Inverse valtoge．Rig． $2 \cdot R$ series＠ 150 MW ．Fig
＠ 200 MW Fig． 4 IR series＠ 400 MW ．

| PART IEDEC | UMBER <br> －SEMCO |
| :---: | :---: |
| 1N－13：4！ | A－6 |
| 全－1心10 | R． |
| 1N－1～11 |  |
| バール゙い | R． 22 |
| が1ヶ43 | R－33 |
| 1N－1s．14 | R． 47 |
| 1N－1＊－15 | R． |
| －18．16 | R－ |
| $1 \mathrm{~N}-1 \mathrm{x}-17$ | R． 150 |
| 1N－1N．｜＊ | R－220 |
| IN－1s．ds | R． 330 |
| ix－1nso | R－470 |
| 1N－1×51 | LR．6．8 |
| 1N－1N82 | LR． 10 |
| 1N－1N53 | LR－15 |
| 1N－1454 | LR－22 |
| －185\％ | LR．33 |
| 1N－1＊56 | LR．47 |

Page 116

## $=\frac{A}{\operatorname{lom} / 1}$ <br> Pig． 2 <br> RECTIFIER DIODES



Medium Power－Low Cost
Av．shog．Wt． 2 or．SEMCOR No．Indicotes peak inverse conduction and to series PR－lPR excepl Wig forword series＠ 6 watts with heat sink．Fig． 1 ＇LRR＇series＠


E．I．A．—RECTIFIER
Low Power

| No． | Low Power |  |  |  | $\begin{gathered} \mathrm{Net} \\ 1.99 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Max Rev Volt | Zenor Valt min | Rev u＊ | AvR Rect ma |  |
| 1N200 | fi．s | 7.3 | 0.8 | \％ 3 | 2.80 |
| 1 N 201 | ． .2 | 1 | 0.5 | 7 | 2.80 |
| IN202 | 11 | 11 | 0.6 | － 0 | 2.80 |
| 1N203 | 12 | 13．5 | 0.5 | Es： | 2.80 |
| 1N204 | 15 | $1 \%$ | 0.5 | Sti | 2.80 |
| 1N205 | $1 \times$ | 20 | 0.1 | 50 | 2.80 |
| 1 N206 | 22 | 25 | 0.1 | 12 | 2.80 |
| $1 N 207$ | 27 | 30 | 0.1 | 10 | 2.80 |
| 1N20a | 3：1 | 37 | 0.1 | 13.5 | 2.80 |
| 1 N209 | ； 3 ！ | $8:$ | 0.1 | ： 0 | 2.80 |
| SN210 | 17 | S2 | 13.1 | 27 | 2.80 |
| 1 N211 | ifi | 42 | 1 | 2： | 2.80 |
| 1N212 | 6＊ | －5 | 1 | 18 | 2.80 |
| 1 N 213 | －2 | 110 | 1 | $10^{\circ}$ | 2.80 |
| 1 N214 | 1010 | 1111 | 1 | 1：3．3 | 2.95 |
| 1 N215 | 120 | 1335 | 1 | 11 | 2.95 |
| 1 N216 | 1 万0 | 170 | 5 | ！ $3^{3}$ | 2.95 |
| 1 N217 | 1－0 | 200 | \％ | 11 | 2.95 |
| 1N218 | 220 | 250 | 5 | ． | 2.95 |
| 1N219 | 276 | 300 | 5 | －． 3 | 2.95 |
| 1N220 | ：3：30 | 370 | 5 | 7 | 4.05 |
| 1N221 | 890 | 1130 | 5 | 1 | 4.25 |
| $1 N 222$ | 470 | 82 | $\square$ | 5．5 | 4.50 |
| 1 N137A | 36 | 411 | 0.03 | 21 | 2.50 |
| 1N138A | $1 \times$ | 20 | 0.01 | $3 \%$ | 2.50 |

E．I．A．ZENERS DIODES
Double Anode

| $\begin{aligned} & \text { PART } \\ & \text { NO. } \end{aligned}$ |  | － | （ma） | Zener <br> Imped Av | Net1.99 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Min | Max | －1zde |  |  |
| 1 N471 | 3.0 | 3.9 | 3 | \％ | 5.20 |
| 1 N472 | 3.7 | 1．${ }^{\text {a }}$ | 5 | 1.10 | 5.20 |
| 1N473 | ＋． 3 | 8.1 | 5 | ：13， | 5.20 |
| 1N474 | 5.2 | 4i． 1 | ： | 211 | 5.20 |
| iN475 | 6.2 | ¢． 0 | ． | 11 | 5.20 |
| 1 N225 | $\overline{6} .5$ | 10 | 0.2 |  | 5.25 |
| 1N226 | 1 | 12 | 0.2 |  | 5.25 |
| 1 N 227 | 11 | 1．1．5 | 11.2 |  | 5.25 |
| 1 N228 | 1：\％ | $1 \sim$ | ก．2 |  | 5.25 |
| 1 N229 | 17 | 21 | 0.2 |  | 5.25 |
| $1 \mathrm{~N} 230^{\circ}$ | 20 | 27 | n． 2 |  | 6.00 |
| 1 N 231 | 25 | 32 | 0.2 |  | 6.00 |
| 1 N232 | 30 | 19 | 0.2 |  | 6.00 |
| 1N23．3 | 37 | 1.5 | 0.2 |  | 6.00 |

MEDIUM POWER DOUBLE ANODE Av．shpg．w．．， 2 or．Toleronce $\pm 10 \%$ ．SEMCOR No．in dicates nominal zener voltoger＠ 25 C Fig． 1 IPZT

| No． | $\begin{aligned} & \text { Net } \\ & 1.99 \end{aligned}$ | No． | $\begin{aligned} & \text { N4t } \\ & \mathbf{1 . 9 9} \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| PZT－6． 2 | 8.13 | LPZT－8．2 |  |
| P2T－10 | 8.13 | LP2T－10 | 8.13 |
| PZT－12 | 8.13 | LP2T－12 | 8.13 |
| PZT－15 | 8.13 | LPET－15 | 8.13 |
| PIT－18 | 8.13 | LPIT－18 | 8.13 |
| P2T－22 | 8.13 | LPZT－22 | 8.13 |
| P2T－27 | 7.80 | LPZT－27 | 7.80 |
| P2T－33 | 7.80 | LPET－33 | 7.80 |

SOLID TANTALUM CAPACITORS
Av．smpg．wi． 2 oz ．Tolerance $\pm 20 \%$ ．Temperafure $85^{\circ} \mathrm{C}_{i}$

 or insulated cose，and specity．
$.68, .82,1,2,1,5,27,33,56$. $33,56,68,82,120,150,270 \mathrm{mfd}$ ．Write for prices and SEMCOR Bullein TS－11－58．

| Part No． | MF |  | 1.24 | $\begin{aligned} & \text { Net } \\ & 25.49 \end{aligned}$ | 50.99 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TS1－6．474 | 17 | 4 | 2.95 | 1.65 | 1.20 |
| TS1．10．474 |  | 10 | 2.95 | 1.65 | 1.20 |
| TS 1.15 .474 |  | 15 | 2.95 | 1.65 | 1.20 |
| TS1－20．474 |  | 20 | 2.95 | 1.65 | 1.20 |
| TS1－25．474 |  | 25 | 2.95 | 1.65 | 1.20 |
| TS1－30－474 |  | 113 | 2.95 | 1.65 | 1.20 |
| T51．35．474 |  | 85 | 2.95 | 1.65 | 1.20 |
| 151－6．105 | 1.0 | ${ }^{1}$ | 2.95 | 1.65 | 1.20 |
| TS1．10．105 |  | 10 | 2.95 | 1.65 | 1.20 |
| TS1－15－105 |  | 1. | 2.95 | 1.65 | 1.20 |
| TS1．20．105 |  | 20 | 2.95 | 1.65 | 1.20 |
| TS1．25－105 |  | 28. | 2.95 | 1.65 | 1.20 |
| T51－30－105 |  | ：10 | 2.95 | 1.65 | 1.20 |
| TS1．35－105 |  | 0.5 | 2.95 | 1.65 | 1.20 |
| T51－6．475 | 1.7 | 6 | 2.95 | 1.65 | 1.20 |
| TS1－10．475 |  | 10 | 3.20 | 1.80 | 1.30 |
| T51．15－475 |  | 1\％ | 3.20 | 1.80 | 1.30 |
| T\＄1－20．475 |  | 20 | 3.20 | 1.80 | 1.30 |
| T51－25－475 |  | 2.3 | 3.20 | 1.80 | 1.30 |
| TS1－30．475 |  | 10 | 3.20 | 1.80 | 1.30 |
| T\＄1－35－475 |  | ： 18 | 3.20 | 1.80 | 1.30 |
| TS2－6．105 | 10 | ¢i | 3.20 | 1.80 | 1.30 |
| T52－10．106 |  | 111 | 3.20 | 1.80 | 1.30 |
| T52．15．106 |  | 1.5 | 3.20 | 1.80 | 1.30 |
| TS2－20－106 |  | 26 | 3.20 | 1.80 | 1.30 |
| T52－25－106 |  | $2 \%$ | 3.20 | 1.80 | 1.30 |
| 152．30．106 |  | ：11 | 3.20 | 1.80 | 2.30 |
| TS2－35－106 |  | 3is | 3.20 | 1.80 | 1.30 |
| 152－6．226 | 22 | 1. | 3.20 | 1.80 | 1.30 |
| T52－10．226 |  | 10 | 3.20 | 1.80 | 1.30 |
| TS2－15－226 |  | 1．3 | 3.20 | 1.80 | 1.30 |
| TS3－20－226 |  | 20 | 4.65 | 2.85 | 2.22 |
| T53－25－226 |  | 25 | 4.65 | 2.85 | 2.22 |
| 753．30．226 |  | 361 | 4.65 | 2.85 | 2.22 |
| 753．35－226 |  | 38 | 4.65 | 2.85 | 2.22 |
| T52－6．476 | 17 | i | 3.20 | 1.80 | 1.30 |
| 753－10－476 |  | 111 | 4.65 | 2.85 | 2.22 |
| T53－15－476 |  | 1．1 | 4.65 | 2.85 | 2.22 |
| T53．20．476 |  | 능 | 4.65 | 2.85 | 2.22 |
| T54－25．476 |  | 25 | 12.00 | 6.50 | 5.20 |
| T54－30．476 |  | in | 12.00 | 6.50 | 5.20 |
| T54－35－476 |  | 3 F | 12.00 | 6.50 | 5.20 |
| T53－6．107 | 100 | 4 | 12.00 | 6.50 | 5.20 |
| T53－10．107 |  | 110 | 12.00 | 6.50 | 5.20 |
| TS4．15－107 |  | 1．： | 12.00 | 6.50 | 5.20 |
| TS4．20．107 |  | 20 | 12.00 | 6.50 | 5.2 C |
| TS4．6．227 | $2 \because n$ | ${ }^{1}$ | 12.00 | 6.50 | 5.20 |
| T54．10．227 |  | 110 | 82.00 | 6.50 | 5.20 |
| T\＄4．6．337 | $\therefore: 31$ | fi | 12.00 | 6.50 | 5．20 |

## GLENNITE－VECO－THERMISTORS－Semiconductors

## GLENNITE THERMISTORS A REMARKABLE ADDITION

 TO THE FIELD OF ELECTRONIC CIRCUITRY

GLENNITE THERMISTORS are ceramic temperature sen－ slitive resisfors which exhiblt high negotive coefficients of hich yary by a mi－conductors passess rasisiance $100^{\circ} \mathrm{C}$ which vary by a rolio of 10 million to from－ $100^{\circ} \mathrm{C}$ to $450{ }^{\circ} \mathrm{C}$ ．Avallable in resistance values fram ohms 0 mezohms，Excellent stabiliy and high sonsilivit in a small，rugged unit．APPLICATIONS：Temperature censing， Temperature compensalion，Amplitude control，lime de－ lay，Measurements and analyses，Liquid level detection and many athers．STYLES AVAILABLE，Wafor，Bead，fead in probe．Bead in bulb，Rad．All resistances and lemper． alure coefficients af $25^{\circ} \mathrm{C}$ ．Dissipation measure
WAFER－max，oper．temp． $150^{\circ} \mathrm{C}$ ．Madel Key（see Illus－ tration）：（1）radial leads（2）radial leads；body cooted with impregnated phenalic（3）without leads（5）axial leads $(6)$ wofer on plate with lead．＂requires close can－ toct with good thermat sink．Avg．shpg．wi．I oz

| Ne． | Mode | ohms | Temp． Coeff．$/^{\circ} \mathrm{C}$ |  |  | $\begin{aligned} & \text { e1 } \\ & 241 \\ & \hline \end{aligned}$ | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 117E1 | 1 | 10土10\％ | － | 7.9 | 1.40 | 1.20 | 5 |
| 117E2 | 2 | 10土10\％ | － 3 | $7: 8$ | 1.75 | 1.45 | 1.15 |
| 11TE3 | 3 | 10士 $10 \%$ | － | 7.9 | 1.00 | 85 | 65 |
| 11TES | 5 | $10 \pm 10 \%$ |  | 7.8 | 1.70 | 1.40 | 1.10 |
| 12TE1 |  | 20 |  | 4.7 | 1.40 | 1.20 | 5 |
| $12 T E 2$ | 2 | 20土10\％ |  | 4.7 | 1.75 | 1.45 | 1.15 |
|  | 3 | 20士10\％ | － | 4.7 | 1.00 | 85 | 65 |
| 12TE5 | 5 | $20 \pm 10 \%$ |  | 4.7 | 1.70 | 1.40 | 0 |
| 15TE1 | 1 | 50 | －3．9\％ | 3.2 | 1.40 | 1.20 | 5 |
| 15TE2 | 2 | $50 \pm 1$ | $-3$. | 3.2 | 1.70 | 1.40 | 1.10 |
| 15TE3 | 3 | $50 \pm 10 \%$ | $-3.9$ | 3.2 | ． 90 | ． 75 | 60 |
| 15TES | 5 | 50土 $10 \%$ | － | 3.2 | 1.60 | 1.30 | 1.05 |
| 21TE1 | 1 | $100 \pm$ | －3．9\％ | 2.5 | 1.30 | 1.05 | 85 |
| 21TE2 | 2 | 100 $\pm 10 \%$ | $-3$. | 2.5 | 1.65 | 1.35 | 1.10 |
| 21 TE3 |  | 100 $\pm 10 \%$ | $-3.9$ | 2.5 | 85 | ． 70 | 55 |
| $217 E 5$ | 5 | 100 $\pm 10 \%$ | ， | 2.5 | 1.40 | 1.20 | 5 |
| 21 | 1 | 100 $\pm 10 \%$ | －4 | 7.8 | 0 | 1.20 | 5 |
| 21 | 2 | $100 \pm 10$ | －4．4\％ | 7.8 | 1.75 | 1.45 | 1.15 |
| 22T03 | 3 | $200 \pm 1$ | ， | 4.0 | 1.00 | 85 | ． 65 |
| 21705 | 5 | 10 | $-4.4 \%$ | 7.8 | 1.70 | 1.40 | 1.10 |
| 22 | 1 | 200 $\pm 10 \%$ |  | 4. | 0 | 1.20 | 5 |
| 22 | 2 | 200 $\pm 10 \%$ | －4．4\％ | 4.0 | 1.75 | 1.45 | 1.15 |
| 22 TD3 | 3 | 200 $\pm 10 \%$ | －4．4\％ | 4.0 | 1.00 | ． 85 | ． 65 |
| 22 TDS | 5 | 200士 $10 \%$ | －4．4\％ | 4.0 | 1.70 | 1.40 | 1.10 |
| 25 | 1 | $500 \pm 10 \%$ |  | 3.0 | 1.40 | 1.20 | 5 |
| 25 | 2 | $500 \pm 10 \%$ |  | 3.0 | 1.70 | 1.40 | 1.10 |
| 25 | 3 | $500 \pm 10 \%$ |  | 3.0 | ． 90 | ． 75 | ． 60 |
| 25 TDS | 5 | 500土 $10 \%$ | －4． | 3.0 | 1.60 | 1.30 | 1.05 |
| 31701 | 1 | $1000 \pm 10 \%$ | －4．4\％ | 2.6 | 1.30 | 1.05 | 85 |
| 31 102 | 2 | 1000士10\％ | －4 | 2.6 | 1.65 | 1.35 | 1.10 |
| 31 TD3 | 3 | 1000士 $10 \%$ | －4．4 | 2.6 | ． 85 | ． 70 | 55 |
| 31 TDS | 5 | $1000 \pm 10 \%$ | －4 | 2.6 | 1.40 | 1.20 | 95 |
|  | 1 | $270 \pm 10 \%$ |  | 3.8 | 1.40 | 1.20 | ＋．95 |
| 27 MDI | 8 | $725 \pm 5 \%$ | －4 | 150 | 7.05 | 5.85 | 4.65 |
| 28MD | 6 | $760 \pm 5 \%$ | －4． |  |  | 5.85 | 4.65 |
| 35TF1 |  | $5000 \pm 10 \%$ | － | 4.3 | 2.10 | 1.75 | 10 |
| 35TF2 | 2 | $5000 \pm 10 \%$ | －4．9\％ | 4.3 | 2.45 | 2.00 | 1.60 |
| 35TF3 |  | $5000 \pm 10 \%$ | －4．9\％ | 4.3 | 1.70 | 1.40 | 1.10 |
| 357F5 | 5 | $5000 \pm 10 \%$ | $-4.9 \%$ | 4.3 | 2.30 | 5 | 1.55 |
| 45TG1 | 1 | $50 \mathrm{x} \pm 10 \%$ | －5 | 4.6 | 2.10 | 1.75 | 1.40 |
| 45762 | 2 | $50 \mathrm{~K} \pm 10 \%$ | －5．4\％ | 4.6 | 2.45 | 2.00 | 1.60 |
| 45 TE3 | ， | 50K $\pm 10 \%$ | －5．4\％ | 4.6 | 1.70 | 1.40 | 1.10 |
| 45765 | 5 | $50 \mathrm{x} \pm 10 \%$ | $-5$ | 4.6 | 2.30 | 1.95 | 1.55 |
| 51761 | ， | 100x士 $10 \%$ | － | 4.2 | 2.00 | 1.65 | 1.35 |
| $517 G 2$ | 2 | 100x土 $10 \%$ | $-5.4$ | 4.2 | 2.35 | 1.90 | 1.55 |
| 517 G | 3 | $100 x \pm 10 \%$ | $-5.4 \%$ | 4.2 | 1.60 | 1.30 | 1.05 |
| 51765 | 5 | $100 \mathrm{x} \pm 10 \%$ | $-5.4 \%$ | 4.2 | 2.20 | 1.85 | 1.50 |
| $617 \times 1$ | 1 | 1 meg ＋10\％ | －6．8\％ | 5.3 | 2.25 | 1.85 | 1.50 |
| $617 \times 2$ |  | $1 \mathrm{meg} \pm 10 \%$ | －6．8\％ | 5.3 | 2.60 | 2.10 | 1.70 |
| 617 MJ |  | 1 meg土 $10 \%$ | －6．8\％ | 5.3 | 1.85 | 1.50 | 1.20 |
| 61 TM5 |  | $1 \mathrm{meg} \pm 10 \%$ | －6．8\％ | 5.3 | 2.45 | 2.05 | ． 65 |

BEAD－Max，aper．temp． 300 C．leads tabbed－DC test． $t$ not glass coated．Figure Kay（see illustration）（I） rodial leads（2）alfsel axial leods（3）in glass probe（4） in glass bulb（5）axial leods（6）odjacent axiol leods Av．shpg．wt．， 1 oz

| Na． | ｜Figd | ohme | Resing <br> Temp． Coerf．$/^{\circ}$ | Dissip． $K$ WW／${ }^{\circ} \mathrm{C}$ |  | $\begin{gathered} \text { Net } \\ \text { \|10.24 } \end{gathered}$ | 25 up |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 31 CHI | 1 | $1000 \pm$ | ， | 0.5 | 3.70 | 3.05 | 2.45 |
| $31 \mathrm{CH2}$ | 2 | $1000 \pm 20$ | \％－ 3.4 | \％ 0.5 | 3.70 | 3.05 | 2.45 |
| 31 CB 1 | 1 | $1000 \pm 20$ | \％－-3. | \％ 0.7 | 3.00 | 2.50 | 2.00 |
| $31 \mathrm{CB2}$ | 2 | $1000 \pm 20$ | \％－ 3.8 | \％ 0.7 | 3.00 | 2.50 | 2.00 |
| 32 CH 1 | 2 | $2000 \pm 25$ | \％－ 3 ． | \％ 0.1 | 4.00 | 3.35 | 2.65 |
| 32 CH 3 | 2 | $2000 \pm 2$ | \％－ 3. | \％ 0.1 | 6.00 | 4.85 | 3.90 |


| 32CB1 | 1 | 2000士 $20 \%$ | 3．9\％ | 0.7 | 2.75 |  | 1.85 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 32C82 | 2 | $2000 \pm 20 \%$ | $-3.9 \%$ | 0.7 | 2.75 | 2.30 | 1.85 |
| $35 C B 1$ | 1 | $5000 \pm 20 \%$ | －3．9\％ | 0.7 | 3.25 | 2.70 | 2.15 |
| $35 C B 2$ | 2 | $5000 \pm 20 \%$ | $-3.9 \%$ | 0.7 | 3.25 | 2.70 | 2.15 |
| 36C82 | 2 | 5700士 $17 \%$ | －3．9\％ | 0.3 | 14.85 | 4.05 | 3.20 |
| 38 CB 2 | 2 | $8000 \pm 20 \%$ | $-3.0 \%$ | 0.1 | 4.0 |  | 2.65 |
| 38CX2 | 2 | 8000士20\％ | $-4.2 \%$ | 0.4 | 4.0 | 3.35 | 2.65 |
| $41 C 81$ | 1 | 10，000 $\pm 20 \%$ | $-3.9 \%$ | 0.7 | 3.45 | 2.85 | 2.30 |
| 41 CB 2 | 2 | 10，000士20\％ | －3．9\％ | 0.7 | 3.45 | 2.85 | 2.30 |
| $45 C A 1$ | 1 | 50，000 $\pm 20 \%$ | － $4.6 \%$ | 0.7 | 3.50 | 2.9 | 2.35 |
| 45 CA2 |  | 50，000士20\％ | － $4.6 \%$ | 0.7 | 3.50 | 2.90 | 2.35 |
| 45 CO 3 | 2 | 47，000士 $30 \%$ | $-4.4 \%$ | 0.1 | 7.4 | 6.1 | 4.90 |
| 45 CDS | 2 | 50，000士20\％ | －4．4\％ | 0.1 | 5.2 | 4.30 | 3.45 |
| S1CAI |  | 100，000 $\pm 15 \%$ | －4．6\％ | 0.7 | 2.75 | 2.30 | 1.85 |
| $51 C A 2$ |  | 100，000 $\pm 15 \%$ | － $4.6 \%$ | 0.7 | 2.75 | 2.30 | 1.85 |
| 51 CAS |  | 100，000士20\％ | －4．6\％ | 0.1 | 6.00 | 4.85 | 3.90 |
| 58 CX 2 | 2 | 600，000土25\％ | － $5.1 \%$ | 0.7 | 1.85 | 4.05 | 3.20 |
| $65 \mathrm{CX2}$ |  | $5.3 \mathrm{meg} \pm 30 \%$ | －5．4\％ | 0.1 | 6.00 | 8 | 3.90 |
| BEAD IN GLASS PROBE－• Inbulb．＊in evacuated bulb． Ar．shpe．wi． 1 oz． |  |  |  |  |  |  |  |
| Mo． | Figd | －hims |  |  |  | $\begin{array}{r} \text { Met } \\ 0.24 \\ \hline \end{array}$ | 25 up |
| 32PB1 | 3 | 2000士 $20 \%$ | －3．9\％ | 13 | ．00 | 2.50 | 2.00 |
| 32PE2 | 3 | $2000 \pm 20 \%$ | $-3.0 \%$ | 13. | 3.00 | 2.50 | 2.00 |
| 51PA1 | 3 | 100，000 $15 \%$ | －4．6\％ | 13 | 3.00 | 2.50 | 2.00 |
| $51 P A 2$ | 3 | 100，000 $15 \%$ | －4．6\％ | 13. | 3.00 | 2.50 | 2.00 |
| 36851． | 4 | $5700 \pm 17 \%$ | $-3.9 \%$ | － 6 | S． 55 | 5.40 | 4.35 |
| 65851＊｜ | － | 5.3 meg 土 $30 \%$ | －5．4\％ | －7． | 7.20 | 6.00 | 4.75 |

ROD－Max aper．temp． $150^{\circ} \mathrm{C}$ ．Lead length $14 /{ }^{\prime \prime}$ ．Ar shpg．WI． 1 oz．

| Mo． | Fig， | ohms |  |  |  | $\begin{gathered} \text { Met } \\ 10.241 \\ \hline \end{gathered}$ | 25up |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 33RR1 | 5 | 3．15K士 $10 \%$ | －3．9\％ | 4 | 2.10 | 1.75 | 1.40 |
| 36RRI | 5 | 6．3x $\pm 10 \%$ | $-3.9 \%$ | 4 | 2.20 | 1.80 | 1.45 |
| 412R1 | 5 | 10K士 $10 \%$ | $-3.9 \%$ | 6 | 2.25 | 1.85 | 1.50 |
| 43RD 1 | 5 | 31．5x士 $10 \%$ | －4．4\％ | 4 | 2.00 | 1.65 | 1.35 |
| 51 RDI | 5 | 100K士 $10 \%$ | －4．4\％ | 6 | 2.10 | 1.75 | 1.40 |
| 5 1R02 | 6 | 100K $\pm 10 \%$ | －4．4\％ | 2.5 | 2.00 | 1.65 | 1.35 |

EXPERIMENTAL AS5T．NO．1－Cantains 200 ．of IITEI， 11TE2，12TE1，21TE1，21TE2，21TD1，31TD1，31TD2， 35TF1．45TGI．SITG1．61TMI．Shpg．wI．， 10 ar．Net 33.70
EXPERIMENTAL ASST．NO．2－Canlain： 3 ea．af 11 TES， 12TE5，21TES，21TDS； 2 eo，of 31 TDS， $35 T F 5$ ，45TG5． $51 T G 5,81 T M 5 ; 100$ af $27 \mathrm{MDI}, 28 \mathrm{MD1}$ ．Shpe．wi．．
EXPERIMENTAL ASST．NO，3－Contains 200 of 31 CHI
$31 \mathrm{CH} 2,31 \mathrm{CBI}, 31 \mathrm{CB2}, 32 \mathrm{CHI}, 32 \mathrm{CB}, 45 \mathrm{CAl}$ ． 45 CA 2,
$45 C D 5,51 C A 1,51 C A 2,51 C A J$. Shpg．wt．， 10 ar．Net 72.60


## VECO

## EXPERIMENTER KITS

M－168－Includes 14X2，21W4，23E3，31A1，31D7 and athers．With specs and dato Wi．， 1 lb．．．．．．．．．．．．．．．．．Net 5.00 M－168A－Advonced assortment including tobuloted unim above．With specs and dato Wi．，I Ib．．．．．．．．．．．．．．Net 10.00 A－815－Washer mounting kit Wi．， 6 oz w．．．．．．．．．．Net 1.25

## NEW！MOTOROLA

POPULAR LOW COST
2N554

－ 40 WATT COLLECTOR DISSIPATION＊
－ 2 Watt Class a output＊
FREE with eoch 2N554 New Motorolo Circuit Ap． plicolions folder on HOW rO BUILD A TRAN． SISTORIZED AUDIO POWER AMPLIFIER，Power Control，Battery Chorger，Model Power Supply， Model Troin Control，Toy Electronic Orgon，Geiger Connter ond DC to DC Converter．

With Heot Sink

## MOTOROLA POWER

## TRANSISTOR MOUNTING KITS

Neotly assembled power transistor maunting kits for papu． lar dlamond shaped pawer iransistors．Shpe．wt．， 4 az． MK－10 Kit with teflon coated fiberglass insufating washer． MK－is Sam as above but with mico insulating washer MK－20 Samo as abave，but with onodized aluminum in sulating washer．


## SPECIAL

SYLVANIA LOW COST TRANSISTORS
2N 229 NPN AF
2N233 NPN RF
2N307 PNP 35V Pawer
2N1264 PNP RF－Iİ（drift）
2N1265 PNP IF－AF
2N 1266 PNP RF．IF

### 1.30 .65

## SYLVANIA LOW COST KITS

UNIVERSAL DIODE XIT A Consisft of one each IN3AA， IN38A．IN60，IN64 and IN82A，logether with diade eplacement guide．Shpg．wt．． 4 oz．．．．．．．．．．．．．．．．．．．．．．Net 2.95 DETECTOR DIODE KIT B Cantists of two oach IN60，IN64 UNIVERSAL AUTO TRANSISTOR KIT Hongen of 5 eoch 2N242 transistors with replacement guid UNIVERSAL AUTOMOBILE REPIACEMENT TRANSISTOR NN2 2 R 2N242．Reploces all outornabile dlamand shaped PNP
pawer transistors ．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 2.89


# EVEREADY <br> BATTERIES 

PORTABLE A TYPES

| Stotymo. |  | pue | R.c.a | not |  | $\xrightarrow{\text { voin }}$ | $\begin{gathered} \text { Minh } \\ \text { ion } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 18.100 | ${ }^{100}$ | 230 | v53 | . 16 | \%om | 11/2 | 1/4 |
| CA-101 | 720 | 20 | v5099 | 6 | 2.19/32 | 11/2 |  |
| 8A. 102 | 762 | 4 | 5 5004 | 1.15 |  | $1 / 2$ | 18 |
| A. | 900 | ${ }_{218}$ | Vs230 | . 18 |  | \% $11 / 2$ | 3/8 |
| -a.ios | 726 | ${ }^{213}$ | $\checkmark 5072$ |  | $4.3 / 32=1.7 / 16=1.15 / 10$ | 1/2 | /8 |
| M-10s | 736 | ${ }^{3}$ | vs007 | 32 |  | 41/2 |  |
| AA.107 | ${ }^{76}$ | ${ }_{6} 9$ | ك 5002 |  | ${ }^{2} 151516=1.5 / 18 \times 2.21 / 32$ | $8{ }_{8}^{81 / 2}$ |  |
| ca. 108 | 718 | ${ }_{24}^{274}$ | V5010 | 2.73 |  | 8 |  |
| A. 110 | 74 | [4f ${ }^{\text {d }}$ |  | ${ }^{1.00}$ | c-21/32 $2.21 / 1 / 32 \times 2.31 / 32$ | in |  |
| CA.11 | 707 713 | DS |  | ${ }^{1.26}$ |  | \%/1/2 |  |
| ©A-1/3 | 717 | ${ }_{6}$ | vsobs | 1.05 | 2.7/32 $=1.15 / 16 \times 3.1 / 32$ | r1/2 | 2 |
| PORTABLE 8 TYPES |  |  |  |  |  |  |  |
| A. 116 | 41 | 410 | so |  | 1-1/32 $=4 / 8=1.28 / 64$ |  |  |
| AA-115 | 417 | ${ }_{1}^{10}$ |  |  | 1.5/16 $1031 / 32=1.9 / 16$ |  |  |
| A.-17 | ${ }_{412}^{304}$ | ${ }_{4}^{10}$ | vSOB4 | - 1.01 | 1-1/32 | $221 / 2$ | 1/8 |
| Ea-11: | 420 | $\underline{1 / 5}$ | - | ${ }^{1.23}$ |  | 221/3 |  |
| AA.119 | 403 403 113 | r15 | vsobs | ${ }_{1}^{1.23}$ |  | ${ }_{30} 22$ | $1 / 8$ |
| .121 | 430 | 420 | - | 1.51 | $1-5 / 10^{-1} 1 \times 2.13 / 10^{1}$ | 30 |  |
| (1A-122 | 506 | ${ }_{\text {r }}$ |  | 1.30 |  | 30 |  |
| EA-129 | 415 | 430 | v5086 | 175 | 1.3/山明\% $=3.11$ | 45 | 8 |
| ${ }^{4} 125$ | css | ${ }^{\times 130}$ | vsoss | 2.01 | 2-21/32 $21 \times 31$ | 45 |  |
| AA, | -482 | ${ }_{830}$ | - | 2.88 | ${ }_{3.31 / 32}=2.17 / 32=3.5 / 16$ | is | 3.1/6 |
| A. 128 | ${ }_{88} 8$ |  | - | 2.15 | $51 / 6.21 / 16 \times 71 / 4$ | ds |  |
| MA.129 | 738 416 | ${ }_{\substack{230 \\ \text { Ux4 }}}$ |  | 2.27 |  | 451/n | 4 |
| ${ }^{4 \times 131}$ | $4{ }^{4}$ | ${ }^{\text {K4, }}$ | ك s5092 | 2.21 | 2.13/16 E 1/4 ${ }^{\text {a }}$ | $874 / 8$ |  |
|  | ${ }_{4}^{467}$ |  | Vs016 | 2.15 |  |  |  |
| EA-139 | 437 | x $\times$ so | vss217 v 517 | ${ }^{2.15}$ | $1.15 / 1601.15$ $1.31 / 32$ 1.15 |  |  |
| Ma-13s | 478 | ${ }^{\text {P0 }}$ | Vs219 | 2.75 |  |  |  |
| 138 | ${ }_{89} 8$ | Nom | Vs500 | 2.15 |  |  |  |
| PORTABLE A-B TYPES |  |  |  |  |  |  |  |
| 84.138 | ${ }^{1} 370$ | ${ }^{21 \times 1 \times 40}$ |  | 4.11 |  | 1\%.80 |  |
| A. ${ }_{\text {A. }}$ | W367 |  |  | 8.48 |  |  | 4.1 |
| Ea. 141 | ${ }_{W} \mathbf{3 0 8}$ | faAso |  | -6. 0 | $0.1 / 32{ }^{2} 2.23 / 373 \times 3.4 / 16$ |  |  |
| B-142 | 773 | ${ }^{152500}$ | soso | 4.82 |  |  |  |
| BA. 414 | ${ }_{7}^{729}$ | ${ }_{1}^{1176000}$ | V5s04 | 7.21 | ${ }_{5} 511 / 10^{2}=6.1 / 32=0.15 / 16$ |  |  |
| Ma-145 | W359 | crase | vsoss | ${ }_{4.58} 8.8$ | $0.15 / 16=2 \%=4.23 / 32$ <br> $8.9 / 16=34 / 4=2-7 / 16$ |  |  |
|  |  |  |  | 3.95 | 16 |  | 6.1/2 |
|  | 753 |  |  | 3.43 |  |  | 4.2/3 |
| AA.14* | 756 | r6200 | v5057w | 4.87 | $8 \%=2 \%=3.25 / 32$ |  |  |
| sA-1so BA. 151 | 727 752 |  | $\begin{aligned} & \text { vsos9 } \\ & \text { vsos7 } \end{aligned}$ | $9.20$ | $8 \%{ }^{x} \times 1 / 6=3-25 / 32$ |  | 2.1/8 |

FLASHLIGHT, LANTERN BATTERIES
General Purpose, Portable Lighting

| 2a-139 | 904 | NE | $\checkmark 5073$ | 08 | 0.445 Diam $=1.180$ |  | /8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| -a.154 | 012 | 7 | V 5074 | . 10 | 13/32 Diem. 1\% | $11 / 2$ | 18 |
| en-15s | 915 | 1 | vs034 | . 10 | -/16 Diom. = 1.31/32 | 11/2 | $2 / 5$ |
| EA-156 | 935 | 1 | v5035 | . 13 | 1.1/32 Diom, F 1.15/16 | 11/2 | $1 / 15$ |
| ca. 157 | -90 | 2 | vso36 | . 13 | 1-11/32 Diom. $\leq 2113 / 32$ | $11 / 2$ | 1/5 |
| EA-158 | 0.99 |  | - | -14 | 1.11/32 Diom. ${ }^{2013 / 32}$ | 1/1/ | 1/8 |
| Ea.159 | 735 | 4 FH | vsi06 | . 6 | 2-11/16 = $2-11 / 16 \times 4.8 / 32$ | 11/2 | 1-1/4 |
| m-100 | \#to lgn. | - Isn. | vscobs | -4 | 2\%/ Diom. $81 /$ | 11/8 | 2.1/8 |
| 2a-161 | 500 | FAL | vs040C | 7 | $2.11 / 16=2-11 / 16=4.7 / 1$ | - | 1-1/4 |
| 4.162 | s10s | fabp | $\checkmark 50405$ | 7 | 2-11/16 $\times 2-11 / 16=4.5 / 38$ | 0 | 1.1/4 |
| EA-163 | 731 | Tw1 | vS 317 | 1.4 | 5.11/32 = $2-27 / 32=4-15 / 16$ | - | 3-1/4 |
| Ma-104 | 706 | AFAM | vS103 | 3.34 | $8-5 / 16=2-13 / 16=0.7 / 10$ | 6 | 5.3/8 |
| ca-10s | 1461 | 5101 | v5039 | 3.24 | 10-13/32 $=2-15 / 32 \times 7-9 / 32$ | - | 9-1/2 |
| EA-164 | 1462 |  |  | 3.24 | $5.11 / 32=5-11 / 32=7-9 / 32$ |  | 9.1/2 |
| 2a-167 | 114 |  |  | 1.02 | 3.31/32 $=1-11 / 32 \times 31 / 2$ | 41/8 | 18 |
| ca-168 | 1562 |  |  | 4.32 |  | 71/2 | 11-5/8 |
| m-169 | 116 | 4FOM | CSI40 | 5.03 | 8.37/14 $\times 4.1 / 16 \times 0.7 / 16$ |  | 3.1/2 |
| 2.170 | 1662 | - |  | 5.03 | $7.27 / 32 \times 3.9 / 32 \times 7-9 / 32$ |  | 4-1/10 |
| RANSISTOR ENERAIZERS AND CATMODE |  |  |  |  |  |  |  |
| tererea <br> Oesigne | Improved desion. . . More enerav in tesz Space. Economical . . lower operefinit cons. for Montiktotized drevith . . cordbert and partable rodios, electronic eavipmont. elc. |  |  |  |  |  |  |
| 15tapome | Nos | Poremerex.c. |  |  | L. 1 N | to- | Moight |
| Statht. |  |  |  | 51 |  |  |  |
| Ch. 17 | E9 | - | vs313 | 51 | 550 diam. y 1.960 |  | 1/16 |
| \%-100 | ${ }_{\text {Al }}{ }^{\text {d }} 3500$ | 130 | V5335 | .16 | 1-1/32 diem. El-13/16 | 1.5 | 1/16 |
| EA-174 | 1015 | 930 | v5334 | . 13 | 9/16 diom. $=1.31 / 32$ | 1.5 | 1/16 |
| 2A-175 | E233 |  | vs500 | 1.00 | 1.64 diam. $=1-31 / 32$ | 4.2 | 1/5 |
| ea. 176 | 243 |  | v5324 | 1.19 | 1-13/32 = 1-11/32 $=2 \% / 4$ | 41/4 | $1 / 4$ |
| ca-17 | E146 |  | V5312 | 1.58 | $1-1 / 32=1 / 4{ }^{2}$ | 8.4 | $1 / 16$ |
| ca-178 | 216 | 20. | V5323 | . 63 | 1-1/32 $\times 11 / 16 \pm 1.29 / 32$ | - 0 | 1/16 |
| E.179 | 228 | pom | v 530004 | . 3 | 1 diom. $=1.13 / 16$ | 0.0 | 8 |
| 2a-180 | 246 | 2 NG | vs 305 | 1.30 | 1-13/32 $=1-11 / 32=2 \%$ | - 0 | 1/4 |
| EA-181 | 208 | mb | v5337 | 1.05 | 1.13/16 $51.13 / 16=2.7 / 16$ | $\bigcirc$ | $1 / 2$ |
| en-182 | 276 | D6 | v5306 | 1.26 | 2.9/10 ${ }^{2-1 / 32=3 / 3 / 32}$ | 9.0 |  |
| 4. 183 | 2506 | Dopl | V3301 | 1.58 |  | P. 0 | 1.1/2 |
| ta.138 | 975 | x ${ }^{\text {a }}$ | v5304 | - 8 | $1.21 / 4=1.1 / 32=2.11 / 16$ | 131/2 | 1/3 |
| -4.183 | 2731 |  | v3321 | 1.93 | 2-13/16 $=11 / 3=8.11 / 32$ | 4/7 |  |
| 84.186 | 2713 |  |  | 131 | 1-13/32 $\times 47 / 444.23 / 32$ | - | 14 |
| - - $^{38}$ | 2356 | c |  | 1.10 | $2-9 / 37=11 / 4=01 / 8$ | P. 0 | 1-1/4 |
| AA-188 | 2751 | - | - | 1.58 |  | $0.0$ | 1/2 |
| - |  |  |  |  |  | $9.0$ |  |

INDUSTRIAL BATTERY TYPES

| Leforetive frect Me. | " Mo. | Reploces |  |  | Dimensiten in Inctren 1 ! ! W | -18- | $\begin{aligned} & \text { shege. } \\ & \text { Hogoti, } \\ & \text { Lbt } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | mor | - | 401 |  |  |  |
| -a.100 | W353 | $2 F$ | VS141 | $\pi$ | 2-19/32 $\times 1 / 38 \times 81 / 4$ | 11/2 | $3 / 4$ |
| 2a-200 | W3s4 | ${ }^{2 F B P}$ | vsiol | . 17 | 2-21/32 $\quad 1.11 / 32=4 \%$ | $11 / 2$ | 3/4 |
| EA-201 | W3s5 | $288{ }^{\text {P }}$ |  | 1.16 | 1.9/16 E $13 / 16 \times 2.15 / 16$ | $11 / 2$ | $1 / 2$ |
| -a-202 | w356 | $2{ }^{26} 2{ }^{\text {H }}$ | $\checkmark$ vsij6 | 1.08 |  |  | 1.3/8 |
| EA-203 | W357 | $4{ }^{\text {4F2H }}$ | v5138 | 1.45 | $3 \%=2-11 / 16 \times 5$ | 3 | 2-3/4 |
| EA.204 | W01 | 2721 |  | 08 | 1-5/32 $=1.5 / 32=2.9 / 16$ | 3 | 1/8 |
| BA.20s | 750 | 432 | vsil34 |  | 1-11/32 $=11 / 10 \times 2.21 / 32$ |  |  |
| - | 703 | 532 | vS133 | 4 | 2-7/16 $=27 / 32=3-1 / 16$ | 41/3 | 1/4 |
| 3a-207 | 7811 | 237051 | VS130 | 1.17 | $41 / 16=1.15 / 32=31 / 6$ | 41/2 | $7 / 8$ |
| EA-204 | $\pi 1$ | 2370-1 | vso30 | 1.38 | 3.29/32 $=14 / 8=3.1 / 16$ | 41/2 | $7 / 8$ |
| 3. 200 | 781 | 5360 | vS028 | . 41 | 2.15/32 $\times 55 / 04 \times 31 / 4$ | $41 / 2$ | $1 / 4$ |
| -a-210 | W362 | WStp |  | 1.47 | 2.15/16 $=11 / 16=14 / 4$ | 1/1/2 | 8 |
| M-211 | 773 | 3540 | vs029 | 1.15 | ${ }^{3.29 / 32} \times 1 /{ }^{51 / 6}{ }^{31 / 6}$ | 71/3 | $1 / 2$ |
| m-212 | 774 | 15 |  | 2.10 |  |  | $1 / 2$ |
| 2a.270 | 763 | 4156 | v5102 | 1.61 | $3 y_{7}=2.3 / 32 z^{2.15 / 10}$ $6 \%=4 \%=3.15 / 10^{\circ}$ | +221/2 $+221 / 2$ | 4.5/8 |
| EA-213 | 7601 | 2156 $\$ 15691$ | vs031 | 3.95 | ¢\% = $2.17 / 32.157 .31 / 32$ | -221/2 | $1.1 / 2$ |
| -a-214 | 778 | \$15881 | $v 5031$ vsi31 | 2.55 2.35 | [\% $=2.17 / 32=2.31 / 32$ $4 \%=2.17 / 32=3.7 / 16$ | -221/2 | 8.1/2 |
| $\begin{array}{r} A-215 \\ \mathrm{~A} .216 \end{array}$ | ${ }_{\text {W8 }} 780$ | \$150sk | -st14 | 2.6 | 2-1/32 $=1 \%$ \% $4.31 / 32$ | $+221 / 2+45$ | 7/8 |
| -A-217 | W351 | 2308P |  | 3.18 | 3\% $=21 / 4 \times 3.11 / 16$ | $+221 / 2+45$ | 1.1/4 |
| -A-218 | W358 | W300\%x |  | 2.4 | 2-15/16 $=1-3 / 16=4 \%$ | +45 | 1/2 |
| A-219 | W359 | A 30 | vs. 14 | 24 | $30 / 16=21 / 4 \times 41 / 2$ |  | 2/3 |
| A-230 | W3631 | 103005 C | v5117 | 4.56 | 8.1/32 $=4-1 / 10=7 \%$ | +221/7+431 | 10.1/4 |
| 1-221 | W364F | $213085 C$ | vsis7 | 5.36 | $81 / 6=4.7 / 16=7.11 / 16$ |  |  |
|  |  | ELE | , | C | OOTOFLASM |  |  |
|  |  | AND' | HIC |  | TAGE TYPES |  |  |
| 20.222 | 492 | Niso |  | s.se | $3.9 / 16=2-29 / 32=4.29 / 3$ |  | .1/2 |
| 2a.223 | 489 | xxiso |  | 6.96 | $4.11 / 32=1.11 / 16=4.3 / 16$ |  |  |
| - A.224 | 491 | 4160 |  | 5.56 | 2.19/32 $=1-5 / 16 \times 4{ }^{\text {ch}}$ | 240 | 3/4 |
| an-225 | 493 | 4200 | vs093 | 7.70 | 2-11/16 $=2.7 / 32=3.29 / 32$ |  | 3/4 |
| 2a-326 | 497 | 4320 |  | 11.16 | 3 $=1.19 / 32$ = $5 \%$ | \$10 | 5/8 |
|  |  |  | R |  | ERGIZERS |  |  |
| Lelaperse stect $x^{2}$. | oroedr |  | eca. | not | -inmeniant is Ipoh $1 \approx 1 \times h$ |  | $\begin{aligned} & \text { Vaicht } \\ & \text { On: } \end{aligned}$ |
| EA-277 | E | Em-18 | vs143 | . 34 | 0.825 Diom. $=0.850$ | 1.35 |  |
| BA.228 | E | -413\% |  | 54 | 0.985 Diem. $\mathbb{0} 0.660$ | 1.35 | 0.93 |
| -a-229 | E 4 | \%m. 40 |  | . | 1.195 Diam. $=0.660$ | 1.35 | 1.6 |
| 2a-130 | E | $2 \mathrm{~m} \cdot \mathrm{O}$ | vs313 | . 51 | 0.550 Diam - 1.968 | 1.40 | . 05 |
| 8A-231 | E 9 N | Dm.9N |  | . 54 | 0.550 Diam. $=1.908$ | 1.40 | 1.05 |
| EA-232 | E 12 | Em. 122 | v514 | . 82 | 0.040 Diam. 11.968 | 1.35 | 1.4 |
| 14.233 | 132 | TR.1322 | vS148 | . 4 | 0.662 Diam. 11.315 | 2.70 | 0.9 |
| BA-234 | E 133 | TR.133R | V5149 | 1.15 | 0.662 Diom $=1.965$ | 4.05 | 1.4 |
| 14.23s | E 134 | T8.1348 |  | 1.38 | 0.662 Diam. 2.620 | 3.40 | 1.9 |
| - 4 -236 | E 140 | TE.1468 | V5312 | 1.58 | $1.1 / 32=\%=2$ | 8.40 | 1.6 |
| BA-237 | E 233 | 7R.233R | V5400 | 1.00 | 1-1/64 Diam. $\begin{aligned} & \text { 1 } 1.31 / 32\end{aligned}$ | 4.20 |  |
| EA-238 | E 400 | mm-400: | vsids | . 25 | 0.455 Diom. $\leq 0.135$ | 1.35 | 0.04 |
| EA-239 | E 401 | em-4018 |  | . 34 | 0.470 Diam. $\times 1.130$ | 1.35 | 0.06 |
| -A-240 | E 502 | em. 502 L |  | 42 | 0.550 Diom. $=1.968$ | 1.35 | 1.05 |
| 8A-241 | E 625 | EM 6258 |  | . 30 | 0.61 g Diom. $=0.238$ | 1.35 | 0.14 |
| -1-242 | 630 | em. 630 R |  | $2{ }^{20}$ | 0.615 Diom. $x 0.238$ | 1.35 | 0.17 |
| \% 4 -243 | 30247 | $8302478 \cdot \mathrm{M}$ | - | 3.75 | 1-9/32 Diom. 1 3\% | Q. 0 |  |

NICKEL CADIUM RECHARGEABLE BATTERIES
For Tranuivor Rodion .. . Partable Equipmont High-Eneray... Her matically-Sooled

| (AReptite spect Me. | Ereread ${ }^{-1}$ | $\mathrm{me}_{\mathrm{CN}}$ | Bicensiom in Incter <br> 1. M | Ceperivy <br> (10 How ( eve) | Averaty <br> Disthe. <br> Voliege | $\begin{gathered} \text { mi. of } \\ \text { Hnir Ptes. } \\ \text { In Or. } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| En-24t | N24 | 1 | 39/64 Diam I $1 / 4$ | 50 mah | 1.25 | 0.12 | $\$ 0.70$ |
| -n.24s | N26 | 1 | 63/64 Diom. $\times 15 / 64$ | 100 mol | 1.25 | 0.32 | 0.75 |
| - 0 -246 | - N 26 t | 1 | 63/64 Diam. $=15 / 64$ | 100 mch | 1.25 | 0.32 | 0.84 |
| -9.247 | N28 | 1 | 63/64 Diom. $\mathbf{E}$ 17/64 | 150 moh | 1.25 | 0.40 | 0.78 |
| EA.248 | - N28t | 1 | 63/64 Diam. $17 / 64$ | 150 moh | 1.25 | 0.40 | 7 |
| - 4 -24 | N32 | 1 | 63/64 Diom. $211 / 32$ | 225 mah | 1.25 | 0.44 | . 3 |
| - 2.250 | - N 32 T | 1 | 63/64 Diom. - 11/32 | 225 mot | 1.25 | 0.44 | 0.91 |
| Ba-251 | N36 | 1 | 45/64 Diam. $19 / 64$ | 450 moh | 1.25 | 1.16 | 1.47 |
| -1.252 | - N361 | 1 | 45/64 Diom. $19 / 64$ | 450 mah | 1.25 | 1.16 | 1.54 |
| -a-2s3 | N4S | 1 | 17/32 Diom. $1.31 / 32$ | 450 mom | 1.25 | 0.80 | 2.10 |
| -4.254 | N46 | 1 | 17/32 Diom. : 1-31/32 | 450 moh | 1.25 | 0.80 | 1.93 |
| 8A.25s | N52 | 1 | 17/32 Diom. 3-35/04 | 900 mah | 1.25 | 1.40 | 3.17 |
| 1a-254 | N67 | 5 | 1-15/32 = 1-15/32 = 5-25/32 | 900 meh | 6.00 | B. 30 | 18.46 |
| -A-257 | N70 | 5 | 3.53/64 $\times 1.35 / 64 \times 3 \%$ | 1.5 mah | 6.00 | 28.00 | 29.62 |
| -4-25 | N73 | 1 | 1-23/64 = $1-23 / 64 \times 2-13 / 32$ | 2 ah | 1.35 | 5.90 |  |
| - 4.259 | N74 | 1 | 1-23/64 $\times 1.23 / 64 \times 3 \cdot 25 / 64$ | 3.5 oh | 1.25 | 9.70 | 7.12 |
| - $\mathrm{A}-200$ | N75 | 1 | 1-23/32 $52 \pm 3 \cdot 5 / 32$ | 4.5 on | 1.25 | 12.30 | 8.35 |
| 2.261 | N76 | 1 | 1-23/32=2 $=3-45 / 64$ | $6{ }^{\text {ath }}$ | 1.25 | 15.20 | 10.21 |
| 2A-262 | N77 | 1 | $1-23 / 32 \times 2 \times 41 / 4$ | 7.5 on | 1.25 | 17.60 | 11.17 |
| SA-263 | N79 | 1 | $1-1 / 16 \times 3.37 / 64=4-15 / 16$ | 11 or | 1.25 | 28.00 | 13.79 |
| -0.204 | N81 | 1 | 1-25/64 = $3 \cdot 37 / 64=4-15 / 16$ | 15 on | 1.25 | 34.90 41.60 | 16.78 19.90 |
| M-265 | N83 | 1 | 1-45/64 $\quad 3.37 / 64=4.15 / 16$ | 19 oh | 1.25 | 41.60 | 19.90 |

lution Trpes with "T" Identification Have Tabi for Soldering to Celhs

## TECH. MANUAL ON NICKEL CADMIUM BATTERIES

Inntruction
milise
Net. 25


TRANSISTOR AND HEARING AID BATTERIES

| stock No. | Burgess Type | $\begin{aligned} & \text { RCA } \\ & \text { Type } \end{aligned}$ | Replores Eveready | Volis | Shpg. Wi. | $\begin{aligned} & \text { Net } \\ & \text { Each } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BA. 153 | NE | v5073 | 904 | 1.5 | 1 oz . | . 08 |
| BA.301 | A |  | - | 1.5 | 202. | . 69 |
| BA.302 | 404 | $\rightarrow$ |  | 6 | 3 lbs. | 3.05 |
| BA. 180 | 2N6 | V 5305 | 246 | 9 | 1 ib . | 1.30 |
| BA-178 | 2U6 | V5323 | 216 | 9 | 3 oz . | . 95 |
| BA. 176 | 223 | V 5324 | 243 | $41 / 2$ | 1/2 02. | 1.19 |
| 8A. 187 | C6X |  | 2356 | 9 | 2 lbs . | 1.10 |
| BA. 111 | D5 | v5315 | 707 | $71 / 2$ | 1 lb . | 1.05 |
| BA. 182 | D6 | V\$306 | 276 | 9 | $11 / 3$ lbs | 1.26 |
| 84.183 | O6P1 | $\checkmark 5301$ | 2506 | 3-6.9 | 2 lbs. | 1.58 |
| A.188 | Dos | - | 2761 | 9 | $1 \%$ | 1.58 |
| BA-181 | M6 | V5322 | 266 | 9 | 2/5 | 1.05 |
| BA-318 | P6 | - | 226 | 9 | 308. | . 95 |
| BA. 184 | $x \times 9$ | V 5304 | 239 | 9.13 .5 | 4 or. | . 95 |
| BA-115 | K 10 | - | 417 | 15 | 408. | 1.16 |
| BA. 114 | U10 | VS083 | 411 | 15 | 2 OE . | . 81 |
| BA. 116 | $Y 10$ | - | 504 | 15 | 208. | . 81 |
| BA. 118 | K15 | - | 420 | 22.5 | 408. | 1.23 |
| BA. 117 | U15 | V5084 | 412 | 22.5 | 3 oz . | 1.05 |
| BA-119 | Y15 |  | 505 | 22.5 | 2 оz. | 1.05 |
| BA. 121 | $\times 20$ | - | 430 | 30 | 6 OE . | 1.51 |
| 8A-120 | U20 | V5085 | 413 | 30 | 208. | 1.23 |
| 84-122 | Y20 | - | 506 | 30 | 208. | 1.30 |
| 8A. 123 | v20s | $\square$ | 507 | 30 | 2 oz. | 1.30 |
| BA. 171 | - | VS313 | E9 | 1.4 | 3 oz. | . 51 |
| BA. 175 | - | VS400 | E233 | 4 | 6 oz . | 1.80 |
| 8A. 177 | - | V5312 | $E 146$ | 9 | 2 oz. | 1.58 |
| BA-179 | P6M | V53004 | 226 | $\bigcirc$ | 502. | . 95 |
| BA-400 |  | V53094 | - | 9 | 208. | 1.53 |
| AA. 173 | 130 | V 5335 | 835 | $11 / 3$ | 308. | . 16 |
| BA. 100 | 230 | V5336 | A100 | $11 / 2$ | 6 oz . | 16 |
| BA.174 | 930 | V5334 | 1015 | $11 / 8$ | 408. | 13 |
| 8A. 185 | - | V5321 | 2731 | 41\% | 3 lbs . | 1.93 |



## afayette

## BATTERIES

## at TREMENDOUS SAVINGS

These popular batteries are for Port able and Yransisior radios, $R / C$ equip ment, experimenters, labs, and hobbyisis, eft.
FRESH STOCK - BRAND NEW - GUARANTEED

- Here are five of the most popular types used and at RIDICULOUSLY LOW PRICES

| 5pork No. | Voltoge | Net <br> Eorh | Lots 10 | RCA | Burgess | Evercady | Others |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BA. 1 | $671 / 8$ | 1.59 | 1.49 | $\begin{aligned} & \hline \text { V } 5215 \\ & \text { V } 5216 \\ & \text { Y } 5216 \end{aligned}$ | $\begin{aligned} & \text { P45 } \\ & \text { P4SM } \end{aligned}$ | 477 | BL.M145 |
| BA. 2 | 9 | . 59 | . 53 | $\begin{aligned} & \text { V } 5312 \\ & \text { V } 5323 \end{aligned}$ |  | 216 | 81.0089 |
| BA-3 | - | . 59 | .53 | V5300A | Po |  |  |
|  |  |  |  | YS314 | POM | 226 | BL. M108 |
| EA.5 | 671/2 | 1.29 | 1.19 | V5318 | Ux45 | 416 | BL-045 |
| 8A-6 | $671 / 2$ | 1.45 | 1.35 | V $\mathrm{SO}^{6}$ | $x \times 45$ | 467 | 81.145 |

## BATTERIES FOR PORTABLE RADIO RECEIVERS

| Stork No. | Burgess Type | $\operatorname{RCA}$ | lece |  | Shpg. | Net | stork No. | PORTABLE "A" |  | " AND "8\%" PACKS |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PORTABLE "A" BATEERIES |  |  |  |  |  |  |  | Burgess Type | $\begin{aligned} & \text { RCA } \\ & \text { Type } \end{aligned}$ | Reploces <br> Eveready | Volts | Shpg. Wi. | Each Net |
| 8. 4.156 | 1 | VS035A | 935 | $11 / 3$ | 401. | .13 | BA.138 | 21x×40 |  | w370 |  |  |  |
| BA. 101 | 20 | $\checkmark$ S069 | 720 | $11 / 8$ | $3 / 4$ | . 69 | BA-143 | 11200 | v5084 | W370 | 11/3.60 |  | 4.11 |
| BA-190 | 27 | VS141 | W353 | $11 / 8$ | $11 / 4$ | . 77 |  | 176060 | $\checkmark 5022$ |  |  |  | 4.03 |
| BA. 157 | 2R | vS036A | 950 | $11 / 8$ | 602. | .13 | BA-146 | 176060 | V5022 V5050 | 759 | $11 / 3.90$ | 21 | 7.21 |
| BA. 102 | 4F | v5004 | 742 | $11 / 1$ | 2. | 1.15 | BA-146 BA-142 | T5750 | VS050 V 5060 | 755 785 | $6.71 / 7-75$ | $41 / 2$ | 4.55 4.83 |
| BA. 103 | 8 R | $\checkmark 5070$ | 960 P | $11 / 3$ | 802. | . 46 | BA-148 | F6460 | V5019 | 753 | $71 / 3.75$ $71 / 900$ | $7{ }^{1 / 2}$ | 4.83 5.43 |
| 8A. 104 | 218 | v5236 | 964 | $11 / 3$ | 1/4 | . 28 | BA-307 | ¢6460 G6m60 | Vsols | 753 | $71 / 8.9 .90$ $71 / 8.9 .90$ | 7 | 5.43 |
| BA. 303 | 37 | - | - | $11 / 8$ | 1 | . 65 | BA-149 | G6M60 | vs057w |  | $71 / 8 \cdot 9.90$ $71 / 9.9 .90$ | 51/2 | 5.95 4.87 |
| BA. 155 | $z$ | vSO34A | 915 | $11 / 8$ | 408. | . 10 | BA. 149 BA. 308 | F6260P | v5057w | 756 | $71 / 3 \cdot 9.90$ 9.90 | $7^{1 / 2}$ | 4.87 5.08 |
| BA. 105 | 03 | vS072 | 726 | $41 / 8$ | $11 /$ | . 76 |  | G6860 | $\checkmark 5047$ |  | 9.90 | $8$ | 5.08 5.78 |
| BA. 106 | F 3 | v5067 | 736 | $41 / 3$ | 2 | . 82 | BA. 150 | G62860 | V5059 | 727 | 9.90 | $51 / 3$ | 5.78 4.80 |
| BA-107 | G3 | vS002 | 746 | $41 / 3$ | 2 | .94 | BA. 150 | 16260P | V5059 | 727 | 9.90 | $51 / 8$ | 4.80 |
| BA. 108 | 2 F 4 | V5010 | 718 | 6 | $31 / 8$ | 2.73 |  | FLASML | GHT | LANTERN | BATtERIE |  |  |
| BA-110 | F4P ${ }^{\text {¢ }}$ | V 5009 | 744 | 6 | 21/8 | 1.04 | BA. 156 | 1 | V5035A | 935 | $11 / 8$ | 3 oz. | .13 |
| BA- 109 | 24 | $\checkmark 5088$ | 724 | 6 | $1 / 8$ | . 63 | EA-157 | 21 | V5036A | 950 | $11 / 8$ | 702. | . 13 |
| BA-112 | B5 | V 5120 | 713 | $71 / 8$ | 11/4 | 1.26 | HA-160 | 6 | v5006s | 6 IGN | $11 / 8$ | 2 | . 84 |
| BA. 113 | C5 | v5065 | 717 | $71 / 8$ | 1\% | 1.05 | BA. 154 | 7 | VS074 | 912 | $11 / 3$ | 108. | . 10 |
| EA. 117 U15 PORTABLEVSORA |  |  | BATTEUES |  |  |  | BA. 309 | N | V5073 |  | $11 / 8$ | 108. | . 08 |
|  |  |  | 412 | $221 / 8$ | 4 or. | 1.05 | BA. 155 | 2 | VSO3AA | 915 | $11 / 7$ | 202. | . 10 |
| BA. 219 | 430 | VSO14 | W359 | 45 | 21/3 | 2.49 | BA-203 | 4F2H | V5138 | W357 | 3 | 31/9 | 1.45 |
| BA. 127 | 830 | VSO12 | 484 | 45 | $31 / 4$ | 2.98 | BA. 161 | F4H | vSO40C | 509 | 6 | $21 / 2$ | . 79 |
| BA-126 | 430 | $\checkmark 5013$ | 482 | 45 | 3 | 2.45 | BA-310 | F4SC | - |  | 6 | $11 / 4$ | . 79 |
| BA. 124 | U30 | $\checkmark 5086$ | 415 | 45 | 1/a | 1.75 | BA. 163 | TWI | V5317 | 731 | 6 | $31 / 2$ | 1.63 |
| SA. 125 | $\times \times 30$ | $\checkmark 5055$ | 455 | 45 | $11 / 4$ | 2.08 | EA-144 | 4F4H | V\$103 | 706 | 6 | $71 /$ | 3.34 |
| 8A-129 | 230 | V5015 | 738 | 45 | 2 | 2.76 | BA-311 | 4F5H | V\$139 |  | $71 / 3$ | $81 / 2$ | 4.32 |
| 8A-131 | K45 | v5032 | 457 | 67\% | 1 | 2.21 | - A. 169 | 4F6H | V5140 | 716 | 9 | 10 | 5.03 |
| AA. 133 | P45 | V5218 | 477 | $671 / 8$ | 11/4 | 2.17 |  | INDUSTRIAL-EIECTRONIC |  |  | BATTERIES |  |  |
| BA-319 | P45M | V\$215.?16 | 477 | $671 / 8$ | $11 / 2$ | 2.75 | BA-159 | 4FH | V 5106 | 735 | $11 / 3$ | 2 | 84 |
| 8A-130 | UX45 | V5318 | 416 | $671 / 8$ | 1/2 | 2.07 | BA-205 | 422 | V5 134 | 750 | 3 | 502. | . 57 |
| BA. 132 | $\times \times 45$ | V 5016 | 467 | 671/2 | $11 / 1$ | 2.45 | BA. 312 | F28P | V 5100 | W352 | 3 | $11 / 6$ | . 79 |
| BA-134 | X $\times 50$ | V5217 | 437 | 75 | $11 / 4$ | 3.15 | BA-209 | 5360 | V5028 | 781 | $41 / 8$ | 502. | . 81 |
| BA. 136 | N60 | VSJ20 | 490 | 90 | 2 | 3.15 | BA-162 | F4BP | v5040s | 5105 | 6 | $1 \%$ | . 79 |
| BA-137 | N60X | V5316 | 495 | 90 | $11 / 4$ | 3.15 | BA-211 | 5540 | V 5029 | 773 | $71 / 3$ | 1/4 | 1.35 |
| BA. 135 | P60 | V5219 | 479 | 90 | $12 / 4$ | 2.77 | $B A-270$ | 4156 | VS102 | 763 | $221 / 7$ | $11 / 4$ | 1.61 |
| BA-304 | $\times \times 69$ | - |  | 1031/2 | 2 | 4.60 | BA. 215 | 51565 C | V5131 | 778 | $221 / 8$ | 2 | 2.55 |
| BA. 305 | N150 | - | - | 225 | 21/3 | 5.56 | BA-313 | 5308 | VS112 | W376 | 45 | $31 / 2$ | 3.05 |
| BA. 306 | U160 | - | - | 240 | 3/4 | 5.56 | BA-314 | xx30P1 | - | $455{ }^{\text {P }}$ | 45 | 1/4 | 2.10 |
| BA-225 | U200 | V5093 | 493 | 300 | 2 | 7.70 | BA. 216 | 230NX | V 5114 | W350 | 45 | 2 | 2.69 |


"B" BATTERY
ELIMINATOR AND
CHARGER FOR
PORTABLE RADIOS
Replaces oll snop terminol $67 \%$ V. B. barteries. When indoors you con operate set on regulor 110 V AC without using up your expensive " $B$ " battery. Also rejuvenotes ald botteries for mony extro hours of use. Complete with AC cord and plug. Fits in ploce of your botfery. Size: $1 \%^{\prime \prime} \times 2 \%^{\prime \prime} \times 1 \%^{\prime \prime}$. Shpg. W1.. $11 / \mathrm{l}$ lbs.

## WT WILLARD RECHARGEABLE BATTERIES

Trpe 25-2. Roved of 2 volts for 21 ompere.hours Original equipment in G.E. models 250 and 260 8A-450 List 11.15 Net 8.08 Troe ERG Photo-Flosh Botrery. Roted of 2 volis for 6 mp. hours. Up to 250 nashes per thorge. Size $110^{\prime 2} \times 2 \frac{1}{6} \times 4 \frac{1}{4}$. Shpg. wt.. $11 / 3$ lbs
A-45 1 List 7.55 Nel 5.52
Tyoe ER.34.2. Roted of 2 volts for 34 ompere-hours. Size: $41 / 3^{\prime \prime} \times 3.11 / 16^{\prime \prime} \times 41 / 2^{\prime \prime}$. Shpg. wf.. $51 / 3$ lbs. BA-452

WHEN ORDERING ALWAYS USE LAFAYETTE STOCK NUMBERS IF SHOWN

## MALLORY <br> MERCURY BATTERIES <br> IOR TRANSISTOR APPLICATIONS

| Sock | Mollory |  | Reploces |  | Shipg. | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. | No. | Evereody | RCA | Volts | Wi. | Euch |
| BA-500 | TR-140R | - |  | 1.34 | 3 oz | 1.12 |
| BA. 301 | TR-164R | - |  | 2.5 | 2 oz | 72 |
| BA-502 | TR.162R |  |  | 2.5 | 3 oz . | 87 |
| AA.503 | TR. 120 R |  |  | 2.5 | 3 oz . | 1.10 |
| BA.233 | TR.132R | E. 132 | V 148 | 2.5 | 302. | 84 |
| BA. 504 | TR.113R |  | - | 4.0 | 3 oz . | 1.29 |
| BA. 505 | TR-153R |  | - | 4.0 | 2 oz | 92 |
| BA.506 | TR.163R |  | VS 163 | 4.0 | 3 or. | 1.10 |
| BA-234 | TR.133R | E-133 | V 5149 | 4.0 | 302. | 1.18 |
| BA-237 | TR-233R | E. 233 | V 5400 | 4.0 | 9 oz. | 1.80 |
| -A-507 | TR-114R |  | - | 5.0 | 3 -z. | 1.50 |
| BA-508 | TR.116R |  |  | 5.0 | 302. | 1.35 |
| BA-235 | TR.134R | E. 134 | - | 3.0 | 3 oz . | 1.53 |
| BA. 509 | TR.115R |  |  | 6.5 | 302. | 1.64 |
| BA. 510 | TR.16SR |  | V5165 | 6.5 | 301. | 1.64 |
| BA. 511 | 1R-135R |  |  | 6.5 | 402 | 1.85 |
| BA. 512 | TR.145R |  |  | 7.5 | 308. | 1.45 |
| BA.513 | TR.136R |  |  | 8.0 | 502. | 2.30 |
| BA-236 | TR.146R | E. 146 | V5312 | 9.0 | 308. | 1.58 |


| B-227 | RM. 12 | E) | V5143 | 1.34 | 308. | 38 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BA. 228 | RM.3R | E 3 | - | 1.34 | 3 or. | 54 |
| BA. 229 | RM. 4 R | E4 | - | 1.34 | 4 oz. | . 69 |
| BA.514 | RM.4RT. |  |  | 1.34 | 4 oz . | . 74 |
| BA.5 15 | RM.42R |  | - | 1.34 | 3 ez | . 58 |
| BA-232 | RM-12R | E12 | VS144 | 1.34 | 308. | . 82 |
| 8A-5 16 | RM-42R |  | - | 1.34 | 10 or. | 2.25 |
| 8A. 517 | RM.42RT |  | - | 1.34 | 10 or. | 2.30 |
| BA. 238 | RM-400R | E400 | VS145 | 1.34 | 1 oz . | . 25 |
| BA-239 | RM-401R | E401 | - | 1.34 | 2 oz . | . 34 |
| BA-518 | RM-450R | - | - | 1.34 | 2 oz | . 33 |
| BA-240 | RM-502R | E502 | - | 1.34 | 3 oz. | . 62 |
| 8A-519 | RM.601R | - | - | 1.34 | 3 oz , | . 51 |
| BA. 241 | RM-625R | E625 | - | 1.34 | 108. | . 30 |
| B4.520 | RM.625R1 |  | - | 1.34 | 1 oz. | . 35 |
| BA-242 | RM.630R | E630 | - | 1.34 | 1 oz . | . 28 |
| BA.521 | RM.640R | - | V5150 | 1.34 | 2 ar. | . 32 |
| BA-230 | ZM.9 | $E 9$ | V5313 | 1.5 | 5 oz. | . 51 |
| BA. 231 | OM.9N | E9N | - | 1.5 | 5 az. | . 54 |
| - Indicotes tob contorls |  |  |  |  |  |  |

BURGESS BATTERIES FOR PORTABLE RECORDERS
STOCKNO. TVPE VOLTS SHPG.WT. NET $\begin{array}{llll}\mathrm{AA}-315 & 2 \times 7 & 101 / 3 & 1 / 3 \mathrm{lb} . \\ \mathrm{BA}-316 & 2 \times 62 \mathrm{X} & 11 / \mathrm{s}, \mathrm{O} & 1 / 2 \mathrm{lb}\end{array}$ BA.316 2X62X
$3 \times x$
1.82

# MALLORY CONTROLS 



# IRC AND CRL CONTROLS 

IRC O CONTROLS WITH UNIVERSAL SHAFTS

Knurled, flatted and slotted, $3^{\prime \prime}$ shath. $15 / 16^{\prime \prime \prime}$ dia.. $1 / 4$ " long bushing. Has removable shoft, interchangeable with speciol shafts listed on this page. Includes 270 ohm. $1 / 2$-walt fixed blas resistor. Less swifch. See

NET EACH

## Q CONTROL SWITCHES

Quickily atloched, U.t. Approved. Shpg. wh., 2 or.
Type 76-1-SPST_ Net 41
TYpe M-2-DPSI........ ADD.ON MULT SETIONS.
Eosily oltoched to O Controls to form gonged multh. Ioction conirolis. shpe. Wh., ${ }^{2}$ or.



TYPE WPS
4 WATT WIRE WOUND
Universol wire wound control. For replacement of 2, 3 and 4 wott controls. Dimensions: $1-1 / 4^{\prime \prime}$ dia., $45 / \mathrm{A}^{\prime \prime}$ and knurled. All typer have linear toper except those marked which have loft hond foper for focus contral.

| Type | Olme: | Tep $\Omega$ | Type | Otms | Tep |
| :---: | :---: | :---: | :---: | :---: | :---: |
| WPS10x5 | 10 | 5 | WP\$2007100 | 200 | 100 |
| WPS15 7.5 | 15 | 7.5 | WP5250 | 250 |  |
| WPS20x10 | 20 | 10 | WPS 500 | 500 |  |
| WP525 | 35 | - | WPS5001* | 500 |  |
| WPS25x/12.5 | 25 | 12.5 | WPS1000 | 1000 |  |
| WPS30x/5 | 30 | 15 | WFS 1500 | 1500 |  |
| WPS40 | 40 |  | WPS 1000 | 2000 |  |
| WPS40x 20 | 40 | 20 | WP52250 | 2250 |  |
| WP\$50x25 | 30 | 25 | WPS22501* | 2150 |  |
| WPS40 | 60 | - | WPS2500 | 2500 | - |
| WPSE0x40 | 80 | 40 | WPS 3000 | 3000 |  |
| WPS $100 \times 50$ | 100 | 30 | WPS4000 | 4000 |  |
| WPS140x70 | 140 | 70 | WP340001* | 4000 |  |
| WPS150X75 | 50 | 75 | WH55000 | 3000 |  |
| Ploin Centrals..... |  |  |  |  |  |
| Topped Controls. |  |  |  |  |  |
| SWITCHES FOR IRC "W" CONTROLS76.11-SPST.............................................76.12 -DPST. |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## TAPPED Q CONTROLS

All values are in megahms except with

| Type | Meg 9 | Topt. $\Omega$ | $T$ | Type | Meq | Tapt. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 917.105 x \\ & 817.110 x x \end{aligned}$ | ${ }^{750^{\circ}}$ | 2so | 5 | 21 | 1.0 |  |  |
| ¢13.118x | 2k $15 \mathrm{k}=$ | 250/5 | 5 | $813.137 x$ | 1.0 | ${ }^{2500}$ |  |
| 913-11ax | 15x | 3k/10 | 5 | 816.137 | 1.0 | 10 |  |
| 817.118 | 15 k . | 5K |  | 818.137xx | 1.0 | $250 \mathrm{~K} / \mathrm{St}$ |  |
| \$17.118xx | 1310 | SkN10x | 5 | 219.137x | 1.0 |  |  |
| ¢17.329x | . 13 | 190/38K | 5 | 813-1310 | 1.0 | . 251 |  |
| 813.130x | . 25 | 125k | H | \%19-13px | 2.0 | 30k |  |
| -13020 | . 25 | D0K/120k | 5 | 817-139 | 2.0 | 150k |  |
| 817.112x | . 35 | ${ }^{35 \mathrm{~K}}$ | 5 | 81z-13px | 2.0 | 250 k .54 |  |
| 817.133x | 5 | ${ }_{25 \times}$ |  | 813-139x |  | .5 ${ }^{\text {a }}$ |  |
| 81-133 | . 3 | 30k | $5$ | \$18.139X | 2.0 |  |  |
| 213133x | . 5 | 129x | H | $812140 x$ | 3.0 | 900k |  |
| 819.133 | . 5 | 2 $100 \%$ | 5 | 40 x | 3.0 | 1.54 |  |
| NET EAC |  |  |  |  |  |  |  |

## SPECIAL Q CONTROL SHAFTS

| pe | Description | Net |
| :---: | :---: | :---: |
| 40 | Master shaft used in 0 control $3^{\text {c }}$ Lon | 35. |
| 5 | Master shaft $5^{\prime \prime}$ long | 528 |
| 1 | Slatted or tongued for remote auto | 82 c |
| 6 | Slotted Philce Shath. | 50c |
|  | CA Shalt | 65 c |
| J | 1/8" Shaft for Lenit | 658 |
|  | Motorola Shath | S |
|  | Belmont and Mentgomery Word Sh |  |
|  | Belmont and Montgomery Wa | 826 |
|  | 3/10" Universal Shaft. | 32 c |
|  | $1 / 4{ }^{\prime \prime}$ full round thatt. $1 / 4^{\prime \prime}$ or $3 / 8^{\prime \prime}$ bushing. | 358 |
|  | $1 / 8^{\prime \prime}$ long screw driver slotted shoft | 358 |
| 50 | 3/4* long screw driver slotted shott | 35. |
|  | Insulated shaft. | 418 |
|  | Some as 80. but with | 826 |
|  | Mognovoz Shath. | 655 |
| Wo | 2enith Sha | $65$ |

## 4 WATT WIRE WOUND TYPE WPK

Universal wire wound contral. For replacement of 2,3 and 4 watt contrals. Dimensions: $1.1 / 4^{\prime \prime}$ dio., $45 / 4^{\prime \prime}$
deep behind mounting foce. $3^{\prime \prime}$ Iong Knob Master Shatt. deep behind moun
Shpg. wl. $40 z$.

| Type | Ofms | Tpr. | Trpe | Ohms | Tpr. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| WPK10 | 10 | U | WPR2000L | 2000 | 1 |
| WPK 20 | 20 | U | WPK2250L | 2250 | 1 |
| WPK30 | 30 | U | WPK 2500 | 2500 | U |
| WPK50 | 50 | U | WPK2500R | 2500 | , |
| WPK 100 | 100 | U | WPK3000 | 3000 | U |
| WPM 200 | 200 | U | WPK4000L | 4000 |  |
| WPM 250 | 250 | U | WPK5000 | 5000 | U |
| WPK300 | 300 | U | WPK5000L | 5000 | , |
| WPK400 | 400 | U | WPK 6000 | 6000 | U |
| WPK500 | 500 | U | WPKE000L | 6000 |  |
| WPK\$00 | 600 | U | WPK 7500 | 7500 | 4 |
| WPK650 | 650 | U | WPK7500L | 7500 |  |
| WPR750 | 750 | U | WPK10000 | 10K | U |
| WPK750L | 750 | 1 | WPK12500 | 12.5K | U |
| WPK750R | 750 | T | WPK 15000 | 15x | U |
| WPK1000 | 1000 | U | WPK20000 | 20K | U |
| WPK1350 | 1350 | U | WPK25000 | 25K | U |
| WPX1350 | 1350 | t | WPK 30000 | 30K | U |
| WPK1500 | 1500 | $\cup$ | WPK40000 | 40K | U |
| WPK1500L | 1500 | $!$ | WPK50000 | 50K | 4 |
| WPK2000 | 2000 | U |  |  |  |
| Above types 10-10K <br> Above types 12500-25K <br> Above types 30K-50K |  |  |  | Net | 1.12 |
|  |  |  |  | Nel | 1.35 |
|  |  |  |  | Net | 1.56 |
| AWP-5 Lono | Master | shaft | for above |  | 52 c |

WM MULTISECTION CONTIOLS Net each 1.12 4-wots "odd-on" Contral sections for use with types WPK
or WPS contrals. Additlon of WM section canverts either ar WPS controls. Addition of WM rection canverts either
of the above troes fo dual section control unis. Sires $\% \%$ depsh + Pat. dimensions. Shpg. Wi., 2 oz.

| Type |  | Ohm: | Type |  | Ohms |
| :---: | :---: | :---: | :---: | :---: | :---: |
| WM | 50 | 50 | WM | 2000 | 2000 |
| WM | 100 | 100 | WM | 2500 | 2500 |
| WM | 200 | 200 | WM | 3000 | 3000 |
| WM | 250 | 250 | WM | 5000 | 5000 |
| WM | 500 | 500 | WM | 7300 | 7500 |
| WM | 1000 | 1000 | WM | 10000 | 10000 |
| WM | 1500 | 1500 |  |  |  |
| EXPLANATION OF IRC TAPERS |  |  |  |  |  |
| A. lin |  |  |  |  |  |
| C. Legarithmis, audie or ontenno shunt. |  |  |  |  |  |
| D. Tapersed both ends; grid blas and ontenne. |  |  |  |  |  |
| H. Topped log.; oufomatie hoss compensat |  |  |  |  |  |
| P. Semi-log. reverte taper for picture cont |  |  |  |  |  |
| Q. Some os P but steep |  |  |  |  |  |
| R. Aight hand roper for controst o |  |  |  |  |  |
| S. Special toper-bosed on specilic opplicaU. Standord lineor toper. |  |  |  |  |  |
|  |  |  |  |  |  |

CIRCUIT INSTRUMENTS INC. precision miniature pots

# SM-500 H-Y501 For 

rellobility. Resistance ranges from 100 to 100 k ohms. Wathoge ratings from 1 to 5 wolts. Circuit Troe " H " $\pm 0.5 \%$ lincority for all resistance values. Av. Shps.


 Ohmi Ronges- $230,500,1 \mathrm{k}, 5 \mathrm{kk}, 1 \mathrm{kk}, 25 \mathrm{k}, 50 \mathrm{k}$. Dia $\times \mathrm{L}$, $\% \times 1 \%$ ", fotal L. $2 \%{ }^{\prime \prime}$
Circuit Type SM Subminiature Precision Pols. Wire wound 10 turns. Only $11 / z^{\prime \prime}$ in dio.
5 m .5001 .5 wati. Ohms Ronges-500, 1k, 5k, 10k, 25 k $\pm 10 \%$ tolerance, $\pm 1 \%$ linearity. Total L, 2-20/32 Av. Shpg. wt., 1/ lis.
Single Turn Precision Pots. Withstand severe environmental condifions and high vibrations.
$\mathrm{H}-151 \mathrm{~J}$ watts. Ohmı Ranges-1k, 2.5k, 5k, ond lok $\pm 5 \%$ tolerance. $\pm .5 \%$ linearity. Dic $\times 1,{ }^{ \pm} 11 / 3^{\prime \prime} \times 12^{\prime \prime}$ rotal L, $11 / 4^{\prime \prime}$. Av. Shpg. wt., 6 oz.
H-751 1 watt. Ohms Ranges-100, 250, 500, 1k, sk,
 \%". Total L, I $\mathrm{h}^{\prime \prime}$. Av. Shpg. wr., 4 or.
REVODEX TURN-INDICATING DIALS. Direct-reading, 3 digifs for ony multi-turn device of 10 i
$1 / 4^{n}$ shoff. In eithor black or slear body.

| TYPE | $\begin{aligned} & 1.9 \\ & \text { EACH } \end{aligned}$ | $\begin{aligned} & 10.24 \\ & \text { EACH } \end{aligned}$ | $\begin{aligned} & 25.99 \\ & \text { EACH } \end{aligned}$ | $\begin{aligned} & 100.199 \\ & \text { EACH } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| HD. 150 | 10.00 | 9.50 | 9.00 | 8.50 |
| H-1007 | 12.50 | 11.25 | 10.00 | 9.38 |
| H-750\% | 14.40 | 12.96 | 11.50 | 10.80 |
| SM. 500 | 12.50 | 11.25 | 10.00 | 9.38 |
| H-151 | 8.75 | 7.87 | 7.00 | 6.55 |
| H. 751 | 8.55 | 7.70 | 6.84 | 6.41 |
| Gevoden Diol | 5.75 | 5.46 | 5.17 | 4.88 |

(ars
5 WATT WIREWOUND RADIOHMS
Size of o 2 walt, BUT roted of full 5 wath.
$1.3 / 32^{\prime \prime}$ diam. $9 / 16^{\prime \prime}$. deep. Linear loper.
Shont (ww. Singel Shatt (WW-Style) full round, oluminum, $\%^{\circ}$. diom. $x^{3 "}$ long lrom mio. surface. (WN.Stylo)
Finger lip knurl, scrowdriver slotted, $\%$ diom. $1 / 4^{\prime \prime}$ long from mitg, surface. Bushing $\%$ "' long-ym"-32 thrd. Av. Shpg. wt., of az.

| OHMS | TYPE No. | TYPE No. | OHMS | WWW | TYPE No. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | WW.01 | WN-010 | 100 | WW. | WN. 101 |
| 2 | WW. 020 | WN. 020 | 200 | WW. 201 | WN-20 |
| 3 | WW-030 | WN. 030 | 250 | ww-251 | WN. 251 |
| 4 | WW. 040 | WN. 040 | 300 | ww. 301 | WN-30 |
| 5 | wW. 050 | WN-050 | 100 | WW. 401 | WN-401 |
| 6 | ww. 060 | WN-060 | 300 | WW. 501 | WN 30 |
| 8 | WW-080 | WN-080 | 750 | WW.751 | WN.7s |
| 10 | WW-100 | WN- 100 | 1000 | WW. 102 | WN. 10 |
| 15 | WW. 150 | WN-150 | 1500 | WW.152 | WN. 15 |
| 20 | WW-200 | WN-200 | 2000 | WW-202 | WN-20 |
| 25 | WW-250 | WN-250 | 2500 | WW. 252 | WN-25 |
| 30 | WW. 300 | WN-300 | 3000 | WW. 302 | WN-30 |
| 40 | WW. 400 | WN. 400 | 4000 | WW. 402 | WN. 40 |
|  | WW. 500 | WN. 500 | 5000 | WW. 502 | WN-50 |
| ${ }^{\circ}$ | WW. 600 | WN. 60 | 7500 | WW. 752 | W |
| 75 | WW. 750 | WN-750 | 10k | WW. 103 |  |
|  |  |  | 15k | WW |  |
| NET EACH 1.12 |  |  |  |  |  |
| CENTRALAB TYPE C-I COMPENTROL |  |  |  |  |  |
| A continuously campensated volume cantral that outo matically molntaint depth and brilliance even at whispe level, Shoft length $3^{\prime \prime}$. Width $15 / 16^{\prime \prime}$. Shog. wh. 5 az |  |  |  |  |  |
| PE | DESCRIPTION |  |  | NET EA |  |
| C1.60 | 5 $1 / 1 /$ meg. plain |  |  | 2.0 |  |
| C1.60 |  |  |  | 3.23 |  |
| Cl-70 | I meg, ploin |  |  | 2.69 |  |
| - | 1 meg, with switch |  |  | 3.23 |  |
| TYPE C2-100 SENIOR COMPENTROL |  |  |  |  |  |
| A compact dual concentric unit that permits any degree of compensotion for low volume littoning Separate cantrals for volume and degree of compensotion. Use in hi-ff, radio, TV, otc. Universal (replaces 100k to 1 meg ) controt. Supplied with dual knab. Shpg. wt., 601. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Page 122

## CONTROLS-MALLORY-IRC-OHMITE-CLAROSTAT

MALLORY EXACT REPLACEMENT

## T.V.

CONTROLS

The insting below represenis the mosp populor exact dupir cote T.V. Replacement Controls. These cantrols are iden tical to the orliginals in every detail. No time is wasted in cutring the shafts or odding swliches. Just remove old confrol and substifute the Mollory UE. To delermine the proper replocement cut out braken control and looks for the mfr's no. Then check the list below for the mfr's port number and order your centrol by the UE No. mallary

| No. | mire. Part No. | met |
| :---: | :---: | :---: |
| UE-1400 | ADSIRAL $235 \mathrm{ST3}$ | 2.20 |
| UE.720s | ARVIN D22464.1 | 3.29 |
| UE.1011 | (cAPLAHAHT 781th | 2.20 |
| UE-1315s | (TIORLEY 1 feissi | 2.82 |
| UE.905 | Furacson ajuesch | 2.62 |
| UE. 1600 | PADA 52.21 | 2.20 |
| UE 1590 | GAROD -H | 2.20 |
| UE3711 | GE MHC-113 |  |
| UE-174Ss | GEt K82」storl | 3.03 |
| UE-1011 | HALHICHAFTER 25R7en | 2.20 |
| UE-2s32 | MOFFMAN T4HO4 | 2.20 |
| UE. 1390 | MAJESTM 217-3' | 2.20 |
| UE.7115 | MOTOROLA 1ABT 42A73C | 2.82 |
| UE.32S5 | MOTOLOLA 1RRs3ms7\%A | 2.42 |
| UE.1633W | MgTOROLA 1 ERSO1153 | 3.03 |
| Ye-14\% ${ }^{\text {c }}$ | MOTOHOLA IMK5-1:28 | 3.03 |
| UE-1i37 | PHILCO 33.3573 -23 | 2.20 |
| UE.AIos | RCA 972137.2 | 3.44 |
| UE-175S | RCA 97a389-1 | 2.63 |
| UEETJTOS | MCA 773139-1 | 2.20 |
| YE.320S | HCA 71448 | 3.29 |
| UE.740s | MCA 73910 | 3.03 |
| YE.3003 | RCA 972]ss. | 2.20 |
| UE-3031 | RCA $97213 \mathrm{H}-4$ | 2.20 |
| UE.3032 | RCA 97213 BA - 3 | 2.20 |
| YE-1612 | R(CA Ota 138-1 | 2.20 |
| UE-3033 | R('A 072138-14 |  |
| UE.70 |  | 2.50 |
| UEFE | RCA 日72138-23 | 2.62 |
| YE-1492 | MCA 971778.23 | 2.20 |
| YE.16935 | HENTINEL 38E123 | 3.46 |
| UE.720S | STARRICT PHTOIIJ. ${ }^{\text {S }}$ | 3.29 |
| Ye.izos | TMAD PUTOL11.7 | 3.29 |
| UE.1580 | THUSTONE C-8.217-3 | 2.20 |
| UE.7it | WHELLSTINGHOUSE $78 \times 1 \mathrm{BCD}$ | 2.20 2.73 |
| UE.44S | WFSTINGHOUSE V14021.3 | 2.83 |
| UE.79S | WESTINGHOUSE ath Vswizmol | 2.73 |
| UE.703s | WERTiNCHOUSE V14391-4 | 2.13 |
| YE-E0is | "ESTINGHOUSE 2T@Varizuz | 2.73 |
| UE-18IS | WLstinfloust vgarpa | 3.03 |
| UE-173s | wEstinghinust viniv-12 | 2.63 |

OHMITE TYPE "AS" MINIATURE MOLDED COMPOSITION POTENTIOMETER


Exceptionolly relloble. These miniolure molded composi lion potentiometers are ideal for aircraft, missile. Computer. etc. Extremely lightweight and compact. Only collector tracks bridged by o molded composition brush which provider long life. Terminals molded directly into the control element to ossure frouble-free cannections, Seoled with a synthetic resin, the unit is dust-tight, splosh. proof and fungus resistant. Goid-plated terminals for easy soldering. Rated 0.5 watt continuous, 350 V . Screw-driver All linear raper rype. Meep OO.M-151, MIL-R-94A and E1A requirements. Atl talerances $\pm 10 \%$ excepl $20 \%$. Shpg. wi... 2 oz.

| Type | Ohm: | Type | Ohme |
| :---: | :---: | :---: | :---: |
| 3501 | 101 | 3608 | 251010 |
| 3507 | 250 | 3609 | syckis |
| 3603 | 3011 | 3610 | 1 mek |
| 3604 | 1000 | 3611 | 25 mmeg |
| 1603 | 2800 | 3612 | 50 mer |
| 3606 | 50001 | $3613 *$ | 1.0 meg |
| 3607 | 10000 | 3614 ? | 2.3 inte |
|  |  |  | .0 |


| 3 WATT CLAROSTAT SERIES 58 WIRE WOUND CONTROLS |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sturdy construction, ret co of use for delicate cantrol |  |  |  |  |  |  |  |
| Smooth, nolseless <br> - high degree of |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| chisly wound with alloy wire on |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| $3 / 8^{\prime \prime}$ bushing. $1 / 4^{\prime \prime}$ diameter. Al controls listed below are linear. |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Type Ohms Type Ohms Type Ohms |  |  |  |  |  |  |  |
| 58.1 | 1 | 58.40 | 40 | 58.75 | 750 | 51 |  |
| 58-2 | 2 | 58.50 | 50 | 5t.1000 | 1000 | 58-25K | 25 |
| 58-4 | 4 | 58-60 | 80 | 58-1500 | 1500 | 58.30K | 30 |
| 58. | - | 58-75 | 75 | 5e-2000 | 2000 |  |  |
| 5-10 | 10 | 50-100 | 100 | 58-3000 | 3000 | 58-50K | 50 |
| 58-15 | 15 | 58-200 | 200 | 5e.5000 | 5000 |  |  |
| 58.20 | 20 | 58.300 | 300 | 58.7500 | 7500 |  |  |
| 58.25 | 25 | 58-400 | 400 | 58.10M | 10 m |  |  |
| 58.30 |  | C-500 | 500 | 58-15K | 15M |  |  |
| Any Above, thru 10,000 ahms.....................Each . 91 |  |  |  |  |  |  |  |
| 15,000 ohms thru 25,000 ahms...................Each 1.18 |  |  |  |  |  |  |  |
| 30.000 ahms thru 50,000 ahms...................Each I. 5 |  |  |  |  |  |  |  |

## OHMITE WIREWOUND INDUSTRIAL RHEOSTATS

Wirewound, vifreous enameled rheostafs built with metol and ceromic only. For permonently smooth, and close con. trol. Resistance wire is wound over a solid ceromic core, eoch turn lacked by vitreous enomel. Copper graphite cantoct brush, except "silver-grophite contoct brush, ossures positive centact and constant pressure. All mount on panel UD to $1 /{ }^{\circ "}$ thich. Ratings indicated are af full selling. U. 1 opproved. Knob supplied. Av. shpg. wt., 10 oz.


Two waft units for industrial. tobofatory. TV service and other wies requiring high reliability. Molded resistar element for high salaty foctor. Dust-proof and splashproof with imbedded contact and terminals to ossure smooth, noise-free operation. Size: Single units, $1.1 / 16^{\circ}$ dia. x $9 / 16^{\prime \prime}$. Double units, $1-1 / 16^{\circ}$ dia. x $1-3 / 16^{\prime \prime}$. Mount in $3 / 8^{\prime \prime}$ hole on panels up to $1 / 4^{\prime \prime}$ thick. Trpes CU, CCU, CA and CS hove $2^{*}$ itd, $1 / 4^{*}$ round shoffs; type CIU hos lacking nut and slotied shaft for serew
driver odiustment. CU, CCU and CIU types hove linear driver odiustment. CU, CCU and CIU types hove lineor
loper; CA lypes, clockwise logorithmik; CS types, counter clockwise logarithmic. All $10 \%$ talerance, except - $20 \%$ Average shoq. Wh.. 5 oz. Other values avoiloble.

| Type | Ohms | Net | Type | Ohms | Net |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CU5001 | 50 | 1.91 | CB5031 | 50,000 | 2.20 |
| CU1011 | 100 | 1.91 | CU1041 | 100,000 | 1.91 |
| CU2511 | 250 | 1.91 | CA1041 | 100,000 | 2.20 |
| CUSO11 | 500 | 1.91 | CU2541 | 250.000 | 1.91 |
| CU1021 | 1000 | 1.91 | CA2541 | 250,000 | 2.20 |
| CU2521 | 2500 | 1.91 | CU5041 | 500,000 | 1.91 |
| CU5021 | 5000 | 1.91 | CA5041 | 500,000 | 2.20 |
| CU1031 | 10,000 | 1.91 | CU1052 | 1 meg* | 1.91 |
| CE1031 | 10.000 | 2.20 | CA1052 | 1 mog* | 2.20 |
| CU2531 | 25,000 | 1.91 | CU2552 | $2.5 \mathrm{mog}{ }^{\circ}$ | 1.91 |
| Ce2531 | 25,000 | 2.20 | CA2552 | 2.5 meg ${ }^{\circ}$ | 2.20 |
| CU5031 | 50,000 | . 91 | CU5052 | $5 \mathrm{mes}{ }^{\circ}$ | 1.91 |
| TYPE | CLU-WTTH |  | LOCKING SMAFT |  | Net |
| Type | Ofms | Net | Type | Ohms |  |
| Clu5001 | 50 | 2.50 | CLU2531 | 25.000 | 2.50 |
| CLU1011 | 100 | 2.50 | Clu5031 | 50,000 | 2.50 |
| CLU2511 | 250 | 2.50 | CLU1041 | . 1 meg | 2.50 |
| CLU5011 | 500 | 2.50 | CLU2541 | . 25 meg | 2.50 |
| CLU1021 | 1000 | 2.50 | CLU5041 | . 5 meg | 2.50 |
| CLU2521 | 2500 | 2.50 | CLU1052 | 1.0 mee ${ }^{\text {c }}$ | 2.50 |
| CLU5021 | 5000 | 2.50 | Clu2552 | 2.5 meg | 2.50 |
| Clulo31 | 10,000 | 2.50 | CLU5052 | 5.0 mm* | 2.50 |
|  | TYPE CCU DUALS |  |  |  |  |
| Trpe | Ofms | Net | Type | Ohms | Net |
| cculo31 | 10,000 | 5.73 | CCU2541 | 250,000 | 5.73 |
| CCU2531 | 25,000 | 5.73 | ccus041 | 500,000 | 5.73 |
| CCU5031 | 50.000 | 5.73 | cculosz | 1 mes* | 5.73 |
| cculo41 | 100,000 | 5.73 |  |  |  |
| Type CS-1 | 5PST 5w | teh. | for Ab pois. | N | 65 c |

## IRC EXACT DUPLICATE AUTO RADIO CONTROLS

These centrols will reploce your older ones without ony change. Compleie with switch where colled for. Avg. shpg $w f ., 8$ oz

| $\begin{aligned} & \text { IRC } \\ & \text { NO. } \end{aligned}$ | CAR MFR. | YEAR | $\begin{aligned} & \text { PART } \\ & \text { NO. } \end{aligned}$ | $\begin{aligned} & \text { NET } \\ & \text { EACH } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| 5412 | 2 Buick | 1954 | 7264309 | 2.06 |
| 5413 | 2 Buick | 1955 | 7265742 | 2.06 |
| 5414 | 2 Buich | 1956 | 7266996 | 2.06 |
| 5415 | 2 Buick | 1957 | 7268944 | 2.06 |
| 5423 | Cadillac | $1950-52$ | 7259240 | 2.06 |
| 5424 | Cadillac | 1953 | 7263321 | 2.32 |
| 5425 | Cadillac | 1954.55 | 7264638 | 2.32 |
| 5426 | Cadillac | 1956 | 7266982 | 2.06 |
| 5427 | Cadillac | 1957 | 7269443 | 2.32 |
| 5342 | Chevrolet | 1949.50 | 7258084 | 2.06 |
| 5343 | Chevrotet | 1950 | 1218641 | 2.06 |
| 5344 | Chevrolet | 1951.52 | 1219708 | 2.06 |
| 5345 | Chevrolet | 1951.52 | 7261385 | 2.06 |
| 5351 | Chevrotet | 1955 | 7265265 | 2.06 |
| 5352 | Chevrolet | 1955.56 | 7265220 | 2.06 |
| 5353 | Chevrolet | 1955-57 | 7265302 | 2.06 |
| 5354 | Chevrolet | 1955.58 | 7266193 | 2.06 |
| 5355 | Chevrolet | 1956 | 7266842 | 2.06 |
| 5356 | Cherrolet | 1957 | 7269211 | 2.06 |
| 5357 | Chevrolet | 1957 | 7269199 | 2.06 |
| 5347 | Chevrolet | 1953-54 | 7262941 | 2.06 |
| 5348 | Cherrolet | 1953.54 | 7264211 | 2.06 |
| 5349 | Cherrolet | 1953-54 | 7264210 | 2.35 |
| 5360 | Cherrolet | 1957 | 18 K 41128 | 1.74 |
| 5358 | Cherrolet | 1957 | 7269186 | 2.06 |
| 5359 | Cherrolet | 1957 | 188540768 | 2.06 |
| 5362 | Chevrolet | 1957 | 7270202 | 1.74 |
| 5435 | Chrysler | 1953 | 83-5537-10 | 1.74 |
| 5436 | Chrysler | 1953-54 | 33-5557-13 | 1.14 |
| 5437 | Chrysler | 1955 | 33-5557-16 | 2.06 |
| 5438 | Chrysler | 1957 | 33.5580-16 | 2.06 |
| 5439 | Chrysler | 1957 | 33-5580-13 | 2.06 |
| 5449 | 2 DeSoto | 1954 | 184530623 | 1.14 |
| 5450 | 2 DeSolo | 1955-56 | 188532633 | 1.74 |
| 5451 | 2 DeSoto | 1957 | 188539819 | 2.06 |
| 5459 | 2 Dodge | 1953 | 188521099 | 1.74 |
| 5460 | 2 Dodge | 1954-55 | 18 K 533013 | 1.74 |
| 5461 | 2 Oodge | 1955 | 188532519 | 1.74 |
| 5462 | 2 Dodge | 1955-56 | 18 K 532955 | 1.74 |
| 5463 | 2 Dodge | 1957 | 18 K 539820 | 2.06 |
| 5464 | 2 Dodge | 1958 | 188561317 | 1.74 |
| 5308 | 4 ford | 1948-50 | 1222808 | 1.74 |
| 5309 | 4 Ford | 1950 | $188591266$ | 1.74 |
| 5310 | 3 ford | 1951 | L219586-2 | 1.74 |
| 5311 | 3 Ford | 1951 | $188501153$ | 1.74 |
| . 5312 | 0 Ford | 1952-53 | L219586.3 | 1.74 |
| 5313 | 5 ford | 1952-53 | 18 K 511635 | 1.74 |
| 5314 | 0 Ford | 1954 | L219586-7 | 1.74 |
| 5315 | 2 Ford | 1954 | 188530018 | 1.74 |
| 5316 | 0 Ford | 1955 | 1219656.1 | 1.74 |
| 5317 | 4 Ford | 1955 | 188531299 | 1.74 |
| 5318 | 1 Ford | 1956 | L219681-1 | 1.74 |
| 5319 | 2 Ford | 1956 | 188534483 | 1.74 |
| 5320 | 4 Ford | 1957 | 2090035-1 | 1.74 |
| 5321 | 4 ford | 1957 | 18 K 539059 | 1.74 |
| 5322 | 4 Ford | 1957 | 188539379 | 1.74 |
| 5323 | 4 Ford | 1957.58 | 2090035-2 | 1.74 |
| 5324 | 4 ford | 1957.58 | 18B541819 | 1.74 |
| 5325 | 4 ford | 1957-58 | 188542373 | 1.74 |
| 5399 | 4 Mercury | 1957 | 33-5570-2 | 1.74 |
| 5400 | 4 Mercury | 1958 | N215689-4 | 1.74 |
| 5398 | 3 Mercury | 1955.56 | 1219660-2 | 2.06 |
| 5346 | 4 Oidsmobile | 1951.52 | 188512084 | 1.74 |
| 5473 | 2 Oidsmobile | 1949 | 1219582 | 2.06 |
| 5474 | 2 Oldsmobile | 1951 | 7260294 | 2.06 |
| 5475 | 2 oldsmobile | 1953 | 7263540 | 2.06 |
| 5476 | 2 Oldsmoblle | 1954.55 | 7264242 | 2.06 |
| 5477 | 2 Oldsmobile | 1954-56 | 7264128 | 2.32 |
| 5478 | 2 Oldsmobile | 1956 | 7266887 | 2.06 |
| 5479 | 2 Oldsmobile | 1957 | 7266847 | 2.06 |
| 5480 | 2 Oldsmoblle | 1957 | 7269055 | 2.06 |
| 5494 | 2 Packard | 1956 | 7267632 | 2.06 |
| 5501 | 0 Pontiac | 1949.50 | 7257708 | 2.35 |
| 5502 | 0 Pontiac | 1951.52 | $726 \mathrm{CO43}$ | 2.35 |
| 5503 | 2 Pontlac | 1953.54 | 7262482 | 2.35 |
| 5504 | 1 Pontlac | 1955.56 | 7265495 | 2.06 |
| 5505 | 2 Pontiac | 1956 | 7268308 | 2.06 |
| 5506 | 2 Pontiac | 1957 | 7269149 | 2.06 |
| 5507 | 2 Pontiac | 1957 | 7269638 | 2.06 |
| 5313 | 3 Plymouth | 1952 | 184501616 | 1.15 |
| 5374 | 4 Plymouth | 1953 | 188521635 | 1.15 |
| 5375 | 4 Plymouth | 1953 | 33-5557-11 | 1.15 |
| 5376 | 4 Plymouth | 1954.55 | 184533014 | 1.74 |
| 5317 | 4 Plymouth | 1955 | 18K532909 | 1.74 |
| 5378 | 4 Plymouth | 1955 | 33-5557-15 | 1.74 |
| 5378 | 4 Plymouth | 1956 | 18 K 53652 | 1.74 |
| 5380 | 4 Plymouth | 1956 | 188536704 | 1.74 |
| 5381 | 4 Plymouth | 1956 | 33-5580-4 | 1.74 |
| 5382 | 4 Plymouth | 1957 | 188540376 | 1.15 |
| 5383 | 4 Plymouth | 1957 | 33-5580-12 | 1.15 |
| 5384 | 4 Plymouth | 1958 | 18B560415 | 1.15 |
| 5385 | 4 Plymouth | 1958 | 33-5580-21 | 1.15 |
| 5386 5517 | 2 Plymouth | 1955 1953 | $33-5557-14$ $33-5570$ | 1.74 2.06 |

CALL on lafayette for your industrial electronic needs


## ALLEN-BRADLEY AND IRC RESISTORS

CARBON TYPES
Molded, insulated resistors that enceed rigid MIL-R1I mpecifications. EIA (RETMA) color coded. Brond new foctory fresh stock with full length leods. Sizess \% Ix

$10 \%$ TOLEANCE ovalioble within limits of ronges listed betow and in sizes shown in master chort with asterith

$5 \%$ TOLERANCE Availoble within limits of ronges listed below, in oll sizes shown in moster chart.

| Stock No. | Wats | Range | $\begin{aligned} & \text { NET } \\ & \text { EA. } \end{aligned}$ | Por |
| :---: | :---: | :---: | :---: | :---: |
| 员5-13 | 1/2 | 10 ohms to 22 megs | . 20 | 75 |
| R5-14 | 1 | 10 ohms to 22 megs | . 30 | 1.15 |
| CS-15 | 2 | 100 ohms to 22 megs | . 40 | 1.75 |

## INDUSTRIAL OUANTITY PRICES

Sperial prices for evantity purchases of $1 / 2$ and 1 watl $10 \%$ resistors. Minimum 100 of o volue. Assortments of values permitfed for 500 and 1000 lot prices, but must be of least 100 per volue. Only in sizes
moster chart. Rohge: 10 ohm: to 22 meps.

| Stork No. | Worls | $\begin{aligned} & \text { Loss } 100 \\ & \text { per } 100 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Lots } 500 \\ \hline \text { eor } 100 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Lot: } 1000 \\ \text { per } 100 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Cs-10 | 1/2 | 3.08 | 3.00 | 2.70 |
| -5-11 | , | \$.00 | 4.50 | 4.25 |

## OHMITE $1 / 10 T H$ WATT RESISTORS

Subminiature resistor especiolly designed for opplicotures such os transistor circuifry. beod wires hemly msided in. special insulating cooting permits continuaus aperation af 200 VDC. Toleronce, $\pm 10 \%$. Entremety low neise level. Avalloble in oll slizes with osterist in moster chart from 10 ohms to 1.0 mee
105-24
.5 for .94 - singly worh .24
Lafy of 100 of o single volue. 14.40

## WIREWOUND TYPES

IRC Type EW. Will stond $50 \%$ to $100 \%$. Overloods will


$10 \%$ VOLERANCE ovoiloble within limits of ranges be low in sizes with osterish in master chart.

| Stock No. | Watts | longe | $\begin{gathered} \text { NET } \\ \text { EA. } \end{gathered}$ | ${ }^{5}$ |
| :---: | :---: | :---: | :---: | :---: |
| \$5.16 | 1/2 | 0.27 to 8.2 ahms | 24 | * |
| RS-17 | 1/2 | 10 to 820 ohms | . 20 | 78 |
| [5-18 | 1 | 0.47 to 4700 ohms | . 30 | 1.18 |
| WS-19 | 2 | 1.0 to 8200 ohms | 40 | 1.57 |

$5 \%$ TOLEAANCE ovoiloble within Ifmith of ronges below

| Stoch Mo. | Wents | lange | $\begin{aligned} & \text { NET } \\ & \text { EA. } \end{aligned}$ | for |
| :---: | :---: | :---: | :---: | :---: |
| D5-20 | 1/2 | 0.24 to 9.1 ohms | . 48 | 1.85 |
| [5-21 | 1/2 | 10 to 820 ohms | . 30 | 1.1 \% |
| H5-22 | 1 | 0.47 to 5100 ohms | 45 | 176 |
| [ $5-23$ | 2 | 1.0 to 8200 ohms | . 60 | 2.35 |

## AEROVOX $\pm 1 \%$ CARBOFILM PRECISION RESISTORS



Carbon deposited on ceromic rods for circuit requiring stobilly and eceuracy. Sitver ploped cantacts. Type CP-1/3 rated $1 / 6$ mont. 1500 V , size is/4. $x 1 / 14$ "; type CPI $1 / 3$ roted
 2500 V , sire $1 \%$. $18 / 1 \%^{2}$. $411 \pm i \%$

TYPE CP- $1 / 2-1 / 3$ woft 100 ohms to 2.2 mags...
Fo. .65 TYPE CPL $-1 / 3-1 / 2$ wott 2.4 mogs to 5 mogs …....Eo. 5.1 megs to 7.5 megs...Eo. 97 TYPE CP-1 - 1 wan 100 ohms to 5 megs ..........Eo. . 97 TYPE CP-1 - wof 100 ohms to $5 \mathrm{megs} . . . . . .$. Ee. .97

TYPE CP. | TYPE CP. |
| :--- |
| TYPE CP. 1 watt 5.6 megs to 10 megs ........Ea 1.07 |

| Ohms | Ohms | Ohms | Ohms | Ohms | Megs |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 100 | 750 | 5600 | 47,000 | 390,000 | 3.3 |
| 110 | 820 | 6200 | 51,000 | 430,000 | 3.6 |
| 120 | 910 | 0800 | 56,000 | 470,000 | 3.9 |
| 130 | 1000 | 7500 | 62,000 | 510,000 | 4.3 |
| 130 | 1100 | 8200 | 68,000 | 560,000 | 4.7 |
| 180 | 1200 | 9100 | 75,000 | \$20,000 | 5.1 |
| 200 | 1300 | 10,000 | 82,000 | 680,000 | 5.6 |
| 220 | 1500 | 11,000 | 91,000 | 750,000 | 6.2 |
| 240 | 1800 | 12,000 | 100,000 | 820,000 | 6.8 |
| 270 | 2000 | 13,000 | 110,000 | 910,000 | 7.5 |
| 300 | 2200 | 18,000 | 120,000 | 1.0 meg | 8.2 |
| 330 | 2400 | 20,000 | 150,000 | 1.1 mms | 9.1 |
| 300 | 2700 | 22,000 | 180.000 | 1.2 mogs | 10.0 |
| 390 | 3000 | 24,000 | 200,000 | 1.5 mess | 12.0 |
| 430 | 3300 | 27,000 | 220,000 | 1.8 megr | 15.0 |
| 470 | 3600 | 30,000 | 240,000 | 2.0 mest |  |
| 510 | 3900 | 33,000 | 270,000 | 2.2 mogs | ...... |
| 560 | 4300 | 36,000 | 300,000 | 2.4 megs |  |
| 620 | 4700 | 39,000 | 330,000 | 2.7 megs |  |
| 680 | 5100 | 43,000 | 360,000 | 3.0 me |  |

Page 124
CALL ON LAFAYETTE FOR YOUR INDUSTRIAL ELECTRONIC NEEDS

## －SILICON RECTIFIERS

## A FABULOUS BUY！genuime LAC and ALLEN－BRADLEY Resistor Kit



TOLERANCE $1 / 2$ men hma color cedea 100 msulate nelitons

## with PLASTIC <br> HINGED BOXI

Lafoyette leods the field with o genvine Alten Bradter and ItRC y wott， $10 \%$ tolerance，malded resis＂or kit with a Transparent Plastle Unillty Bon（built in parti． fions）sire： $8 \%=4 \%=\times 1$ $3 / 16^{\prime \prime}$ ．Meet JAN－R－11 specifico－ fions． Stork No．KI－23－Total 100 malded resistors with Transparent Plastic Case

Nel 4.50100 TOTAL

## TEXAS MIL－R－10509B PRECISION CARBO <br> FILM RESISTORS TYPE CD $1 / 2$ MR

$1 / 2$ wall precision carbon film resistors．High degree of stabllity and reliability．In sutation resistance oreater than 50,000 megahms．Talerance $\pm 1 \%$ ．Moets or azceeds Mll－k－105098 speci far characteristic．Mil－designation RN20X．Sizes $0.530^{\prime \prime}$ length $\pi 0.160^{\prime \prime}$ Oio．Avg．shpg．wi．， 4025

| Stock Na． | Volues Ohms | 1． 24 <br> Nef Eech | $\begin{aligned} & 25.99 \\ & \text { Net Each } \end{aligned}$ | $\begin{aligned} & 100-249 \\ & \text { Net Eesh } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| RS． 25 | 10．49．9 | ． 72 | ． 38 | 31 |
| －5．26 | 50.2 .2 meg | ． 60 | ． 32 | ． 24 |
| 6S． 27 | 2．21 Mog． 5 Meg | ． 83 | ． 44 | ． 32 |

Far greater quantivies write for quotailons－
These resistors are avoilable in all the bosic ohmages shawn in this charl and in any multiple of 10 timos ther values up ta 5 megahms．For eromple，you may order 1 ahms $100,1000,100,000$ or 1 meg．When ordering specify stock no．and ahmage． RESISTANCE CNART（Refer to obove for stock no．and price）

| 10. | 13.3 | 17.8 | 23.7 | 31.6 | 42.2 | 56.2 | 75.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10.2 | 13.7 | 18.2 | 24.3 | 32.4 | 43.2 | 57.6 | 76.8 |
| 10.5 | 14.0 | 18.7 | 24.9 | 33.2 | 44.2 | 59.0 | 78.7 |
| 10.7 | 14.3 | 19.1 | 25.5 | 34.0 | 45.3 | 80.4 | 80.6 |
| 11.0 | 14.7 | 19.6 | 26.1 | 34.8 | 46.4 | 61.9 | 82.5 |
| 11.3 | 15.0 | 20.0 | 26.7 | 35.7 | 47.5 | 63.4 | 84.5 |
| 11.5 | 15.4 | 20.5 | 27.4 | 36.5 | 48.7 | 64.9 | 86.6 |
| 11.8 | 15.8 | 21.0 | 28.0 | 37.4 | 49.9 | 66.5 | 88.7 |
| 12.1 | 16.2 | 21.5 | 28.7 | 38.3 | 51.1 | 68.1 | 90.7 |
| 12.4 | 16.5 | 22.1 | 29.4 | 39.2 | 52.3 | 69.8 | 03.1 |
| 12.7 | 16.9 | 22.6 | 30.1 | 40.2 | 53.6 | 71.5 | 95.3 |
| 13.0 | 17.4 | 23.2 | 30.9 | 41.2 | 54.9 | 73.2 | 97.6 |



## MINIATURE SELENIUM RECTIFIERS

－DIRECT REPLACEMENTS FORTV \＆RADIO
Input valtoge is 130 vals AC．Highest quality rectifiers aforefte＇s unmatched ecanomy prices

| Stertit No． | Mo． | Each | $\begin{aligned} & \text { Lets of } 10 \\ & \text { Eoch } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| UE－12 | 65 | 57 | ． 55 |
| RE－14 | 75 | ． 67 | ． 64 |
| 县－10 | 100 | ． 80 | ． 75 |
| CE－15 | 150 | .97 | ． 89 |
| 坥－16 | 200 | 1.19 | 1.08 |
| RE－11 | 250 | 1.21 | 1.11 |
| 坥－17 | 300 | 1.39 | 1.29 |
| RE－18 | 350 | 1.51 | 1.41 |
| 悬－13 | 400 | 1.69 | 1.59 |
| EE． 19 | 450 | 1.75 | 1.65 |
| 箸E－20 | 500 | 1.85 | 1．75 |
| 值－23 | 800 | 1.95 | 1.85 |

MALLORY MAGNESIUM－COPPER SULPHIDE RECTIFIERS

|  | Single phase，full－erase all matal bridge tyo rectifiert．Self－healing rectitying film．Constant output and not affectod by temperature extremas $\left(-90^{\circ}\right.$ to $+265^{\circ}$ ）．$\pm$ At full toad．Troe of mounfing：－Imsulated bolt： insulated ifud；i grounded foot．J＝universol mounting design |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | P | Out－ |  | HxWxD | Replocement in Equipment | Wt. | List | Net Each |
| 1812R | 9.7 | 5.2 | 1.3 | \％／a |  | 1／4 | 3.95 | 2.63 |
| 1812is＊ | 9.7 | 5.0 | 4.5 |  | Moliory 6ACA－2 charger | 1／2 | 7.10 | 4.73 |
| j12cs＊ | 9.7 | 5.0 | 5.3 | 21／8× $11 / 8 \times{ }^{3}$ | Mallory baco－3 charger | $3 / 4$ | 8.95 | 5.97 |
| fizcis＊ | 9.8 | 5.1 | 3.2 | 11／8K11／4 $21 / 4{ }^{\prime \prime}$ | Mollory 3C，bACA Boost | 2／4 | 7.25 | 4.84 |
|  | 12.8 | 6.6 | 6.0 | 3121／23＂ | Mollory 55358 1S16CB7M | $11 / 2$ | 12.30 | ． 20 |
| 1516875 | 12.8 | 6.5 | 8.3 | $3 \times 21 / 2 \pi 51 / 3^{\prime \prime}$ | －AC．10－2， 107 |  |  |  |
|  |  |  |  |  | $151687 m$ | 2 | 13.60 | 0.07 |
|  | 12.7 | 0.4 | 11.6 |  | Mollory SAC10 | 3 | 15.50 | 10.33 |
| F16C3t | 13.0 | 6.8 | 3.9 | 21／0x1／483 | Mollory 5535 |  | 10.70 | 7.13 |
| 1524C7J |  |  | 4.0 | $3+1821 / 2 x^{4} 1 / 4{ }^{-1}$ | Mollory 12－AC．5．2 | 2 |  |  |

NEW！SARKES TARZIAN SILICON RECTIFIER


Model 500 Cartridge rype ificion rectifier that replaces all selenium rectifiers used in radio and TV up to 500 milliamps． Has greater life and can withitand more heat．Mounts in standard fuse holder far 3AC fuse．Con toke up to o maxi－ mum input of 280 valis AC．Size： $1^{\prime \prime} L \times 13 / 32^{\prime \prime}$ diam；ands －${ }^{\prime \prime \prime}$ diom．Shpg．wt．， 3 ozs 1.6 RE 39 Silican Reitifier．．．．．．Lofs of 10 ，earh 1.45 ．．．．．．Net 1.62 Madel M－150 Same ar obave，but takes up to 150 Milliamps． Size： $1^{\prime \prime}$［x $13 / 32$ ．Shpg．wt．， 3 az 10 Nat 9
 pigtail leods．Size： $\mathbf{K}^{* \prime} L \times$ Y／2．Shpg．wi．， 3 azs． Model K． 40 Some as m 500 except pigtail leads．Size：$\%$＂ Model K． $1 / 2$ ．Sheg．wi． 3 or MSOO except pigtail leads．Size：$\%$ e－is Lots of 10，each 1．39．．．．．．．．．．．．．．．．．．．Not 1.55 BUSS 4405 HOLDER FOR SINGIE M500 UUSS 4408 DUAL HOLDER FOR TWO $m 500$.

## NEWI GE GERMANIUM TV RECTIFIERS

 －MAKES TV RECTIFIER REPLACEMENT A＂SNAP＂ The naw GE germanium TV rectifiert are specifically deslgned for TV power supply applicotions．Pravides higher DC output． Mexhanicel＂snap－in＂design．All are rated far 130 Volts input．iN1008
Trpe

## NEWI INTERNATIONAL RECTIFIER

 500 Ma．RADIO TV SILICON RECTIFIER silicon diode rectifier to meplace all oxisting kadio and IV setenium rectifiers up ta 750 milliamperes．Fealures －velof construstion for mounting and repiaces selonium unils withaut any need for conRE－21．
ech 1．45．．．．．．．．．．．Singly 1.62
SILICON T．V．SO2 COLOR T．V．REPLACEMENT Rated 750 mA ＠ 260 V ．Ezact replocement for many color T．V．sets．also for doubler circuits in block QE－J2．．．．．．．．．．．．．Lofs of 10 ．eoch 2.62 $\qquad$


IRC PRECISION WIREWOUND RESISTORS IRC procision wirewound resistors meet all specs of MIL．
R． $93 . \mathrm{A}$ ，amendment 2 ．Ali resistars are $\pm 1 \%$ folerance． R．93．A，amendment 2．Ali resistars are $\pm 1 \%$ tolerance．
All have lug ferminols ascept WW10S which has wire leods．Avg．shpg．wh．， 3 oxs．
TYPE WW21．1 WATT MAXIMUM 2000 VOLTS．SIZE $7 / 8 \times 2-15 / 16$


| Stork Na． | Ohms | Net <br> Fach | Stack No． | Ofters | Net Forh |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 15．32 | 0.1 |  | RS．54 | 10，000 | 1.59 |
| RS－33 | 0.2 |  | R5－55 | 12，500 |  |
| T5－34 | 0.5 |  | CS－56 | 15，000 |  |
| R5－35 | 1 | 1.29 | W5－57 | 20，000 |  |
| （15－36 | 5 |  | C5－58 | 22，500 | 2.06 |
| ［S－37 | 10 |  | W－59 | 25，000 |  |
| RS－38 | 25 |  | W． 5.60 | 30，000 |  |
| C5．39 | 50 |  | ［5－61 | $40,000$ |  |
| RS－40 | 100 |  | － $5+6$ | $50.000$ |  |
| RS． 41 | 200 |  | C5－83 | 60，000 |  |
| RS． 42 | 250 |  | C5－64 | 75，000 | 2.32 |
| R5－43 | 300 | 1.31 | 25．65 | 100，000 |  |
| R5－44 | 500 |  | W5．66 | 125，000 |  |
| 15－45 | 1000 |  | W5．67 | 150,000 | 2.56 |
| RS－46 | 1500 |  | R5－68 | 175，000 |  |
| 65－47 | 2000 |  | W． 59 | 200，000 |  |
| R5－48 | 2500 |  |  | 225，000 |  |
| CS－49 | 3000 | 1.50 | RS－71 | 250.000 | 2.82 |
| RS－50 | 3500 |  | RS－72 |  |  |
| RS－51 | 4000 |  |  |  | 3.32 |
| 15－52 | 50.00 | 159 | R5．74 | 500，000 | 3.79 |
| －5＋53 | 7500 | ． 3 |  |  |  |

TYPE WWS $1.1 / 2$ WATT MAX． 1000 VOLTS．SIEE $25 / 32^{\circ} \times 11 / 4^{\prime \prime}$

\section*{| spock No． | Ohms |
| :--- | :--- |
| E5．75 | 0.6 Me |}





## VERTICAL OUTPUT TRANSPORMERS

all type m，oxcept 1
t Is eutotormer type

| stam． no． | $\begin{aligned} & \text { TURNS } \\ & \text { BATIO } \end{aligned}$ | $\begin{aligned} & \hline \mathbf{D C} \\ & \text { PRI } \end{aligned}$ | $\begin{aligned} & \hline \text { RES } \\ & \text { SEC } \\ & \hline \end{aligned}$ | 512 L | $\begin{aligned} & \text { WT } \\ & 185 \end{aligned}$ | $\begin{aligned} & \text { MET } \\ & \text { EA. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A． 1112 | 10：11 | 1300 | 10 | 2x134x31／4 | 1.0 | 2.94 |
| A－8113 | 8．8：1 | 700 | 12 | 2x14，4344 | 1.0 | 3.00 |
| A．e215： | 10：1 | 600 | 7 | 1－1／16x21／3224 | 2.5 | 5.24 |
| A－b136 | 10：1 | 323 | 7 |  | 2.2 | 3．23 |
| A－81231 | 11．4：1 | 1200 | 11 | 2014．4334 | 1.2 | 2.92 |
| A－81401 | 4＊：1 | 100 | 0.3 | 3．1／18891／3x24 | 2.5 | 5.23 |
| A．3841\％ | 18：1 | 1850 | 4.5 | $214 \times 334 \times 21 / 5$ | 1.5 | 6.17 |
| A－3142t | 8：1 | 540 | 10.3 | 24\％x24／4x | 21／3 | 5．04 |
| A．823 | 10.1 | 625 | 14 | 24， $21 / 4 \times 34$ | 2 | 3.37 |
| A． 8144 | －：1 | 340 | 15 | 21／4 $\times 1 / 4 \times 344$ | 11／3 | 3.13 |
| a．si4s＊ | 9：1 | 540 | 14 | 24，$\times 2 \mathrm{~V}_{4} \times 2 \mathrm{l}$ | 2 | 4.20 |
| 4．EsEl | 6．0：1 | 375 | 10 | 2x11 Mx．3V4 | 11／3 | 2.87 |
| 4．81471 | A：1 | 300 | － | 2m14．434／4 | 1 | 2.80 |
| A．ss4ef | 8：1 | 375 | 6.3 | 2x1the346 | $11 / 3$ | 3.35 |
| A．ti49． | A．e： 1 | 330 | 8.5 | 2x14／631／4 | 1 | 2.68 |
| A．－130． | 9.1 | 450 | 0.7 | 2x33452－3／16 | 1.5 | 4．08 |
| A． $1{ }^{\text {a }} 1$ | 7．3／13：1 | 580 | 0.7 | 24，$\times 34 / 421 / 4$ | 2 | 3.33 |
| vo． 100 | 0．2：1 | 3 HO | 14 | 24星3421\％ | 11／2 | 3.40 |
| V0．80： | 12：1 | 675 | 6． 8 | 24，4x34．3144 | 11／2 | 3.30 |
| vo． 102 | －．5：1 | 275 | 10 | 24084×24 | 213 | 4.32 |
| vo－103 | 18：1 | 530 | 5.5 | 2．314514 | 14／3 | 4.11 |
| vo． 104 | 46：1 | 430 | ． 4 | 25484524／4 | 215 | 4.33 |
| vo． 105 | ＋4．8：1 | 740 | ． 8 | 2．36， $\mathrm{W}_{4} 1 \mathrm{l}$ | 11／3 | 2.72 |
| vo－sos | 38．3：1 | 1400 | 3.8 | 14．2314x1／3 | 1 | 2.45 |
| V0．107 | 3211 | 1220 | 3 |  | 1 | 2.47 |

 － 1\％
DEFLECTION YOKES
AH ore ferrite cores，conine wound，with leods ond net work．All trpe DY．All $31 / 0^{\prime \prime}$ diom．excepl DYI 4 is $2 \mathrm{k} / \mathrm{m}^{\mathrm{m}}$ Shpg．wl．，I lb．


## STANCOR EXACT DUPLICATE FLYBACKS

These exect replocement flybacte ore buitt from the set monufocturers＇originol apecificotions．
They ore exoct electricel and phyical dualiceter of the units they ore designated to eplace．（Av．Shpg．wf．， $1 / / 2 \mathrm{lbs}$ ．）

| STAM．Mo． 1 mFlit． |  |  | $\frac{\text { MET }}{6.8 E}$ | Stam．mo．${ }^{\text {mfat．}}$ |  | $\begin{array}{\|l\|} \hline \text { mfR. We. } \\ \hline \text { нTO-179 } \\ \hline \end{array}$ | MET | STAM，MO． | ｜MFI． | $\frac{\text { MFR. Ne. }}{32 \cdot 869 s}$ | $\frac{\text { wet }}{1.08}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A－832 | ADMIRAL |  |  | मo－254 | GE |  |  | MO－37E P Philco |  |  |  |
| A．8133 | ADMIRAL． | $\begin{aligned} & \text { 7ecso. } 1 /-3 . \\ & 790 \mathrm{cso}-2 /-4 . \\ & \hline \end{aligned}$ | 8.80 | A． 283 | haldicratters |  | 4 | Ho．24 PFILCO |  |  | \％．08 |
| A．0．834 | ADMIRAL |  | e.es | H0－275 | HALLICHAFTERS | $5582+6$ | 7.50 | A-gise RCA |  |  | 7.00 |
|  |  |  |  |  |  | 5scise／fer，35C17 | 7.05 | $\text { A. } 137$ | RCA | $21173$ | － 8 |
| A． 0234 | ADMJRAL． | 79 ceo－1 | 3.58 | 4－224 | HALLICRAFTERS | 33D197 | 0． 37 | mo－2ss hea |  | 211T1／T3 | 6.47 |
| A．02s | ADMIRAI． | 70cce． $2 / 3$ | 6.48 | A－234 | HALLLICRAFTERS | 53 Dasi | 6.35 | A－2243 | RCA | 7783378201,70810 | 5．35 |
| Mo－26s | admiral．ADMIRAL | 700．70．2／－1 | 8.63 | n－324s | HALLICRAFTERS | Sspiars | 7.35 | A． 2244 | RCA |  | －． 0 |
| A．E138 |  | 700－41．$/$／2 | 7.64 | N0．281 | HALLICRAFTİE | 85102m3 | 6．63 | A－0233 | RCA | 7月439．7670s |  |
| A－cas3 |  | 79048．1 | 7.35 | A－822\％ | HOTVMAN | $5123 / 54$ | 5.33 | A． 2234 | RCA | 78501 |  |
| a． 8292 | ADMIRAL | 79 ness 1 | 7.06 | ¢－6337 | MORTMAN | 5033 | 7.00 | 4．023s | RCA | $73510,78385,76381$ | 4.68 |
| A．e17 | ADMIRAL | 22 E 42 | 8． 8. | 4．9as2 | Horman | 3156／5180 | 6.47 | H0． 272 | RCA | 972914 1．103092 | 5．38 |
| A－824s | Aimline <br> AIRIINE | 22Es？ | 7.08 | H0．201 | HOFFMAN | 51914 | 6.63 | A－8230 | gILVERTONE | 10104／07／08／10／26／35 | 4．53 |
| A．${ }^{\text {A }}$ 246 | AIRLINE | 22587 | 7.02 | A－82e3 | magnavox | 360303－1／－2 | 7.61 | a－6．31 | StLVERTONE | 101368／37／36／50 | 7.35 |
| A．ezery | AIMLINE | 22875 | 8.84 | A－6294 | magnavox | $380806 / 1$ | 7.05 | но－274 | STLVERTONE | т80－326 | 8．75 |
| M0－173 | AIRLINE |  | 7.30 | A－82es | MAGNAVOX MAGNAVOX | 360614．1，360623／－2 | 7.05 | H0－274 | SILVTRTONE | 780－336 | 8.76 |
| 100－263 | AIRLINE | S3x3s9i | 5.58 | MO－27 | MAGNAVOX | 360832．1 | 6．83 | A－8227 | SYLVANIA | 241.0003 | 3．53 |
| A． 0131 |  | 750163 A .1 | 3.18 | M0－293 | MOTOROLA | 24C73648日 | －． 3.58 | A－8228 | SYLVANIA SYLVANIA | $241.0005 / .0008$ | 5.33 |
| A－E2ss | CAPEHART CEs－COLUMDEA | asozase－1 | 7．64 | A． 8230 | motorola | 24K703753．24K701090 |  | M0－25 | SYLVANEA | 241．0007 | 3．28 |
| A． 8230 |  | $10108 / 07$／OR $10 / 26 / 35$ | 7.35 | 4．e2t | MOTOROLA | 24C71126s／A． | －．8＊ | MO－25 Ho－273 | SYLVANIA | $241-0011$ $33 \times 319,53 \times 320$ | 6.47 |
| A－E231 | crsecolumpla | 10138R $/ 37 / 38 / 56$ | 7.35 | －${ }^{\text {a }}$ | momalu | 24C721200． | －． 11 | $\begin{aligned} & \text { HO- } 273 \\ & \text { HO-284 } \end{aligned}$ | WELLS GARDNIAR | 33x319； $33 \times 320$ | 6.38 |
| Mo－25 |  | 12000751.12000151 | 7.02 | A－922s | MOTOROLA | 24K712193 | －1．11 | no－284 | WELLS GARDNER | \＄3×326／8／6／30 | 7．05 |
| A． 2313 | cess colvimia | 12000841 | 6.32 | A．${ }^{\text {a }} 228$ | motornlla | 24K721301C．24x721517 | 8． 11 | A．82ts | WELLS OARDNER | 53x337 $/ 8 / 30$ | 6．80 |
| $\text { A- } 4.894$ | CBS－COLUMDIA | 120001051 | 6.34 | H0．280 | motorola | 24K73928． | 0．48 | A．0236 | WESTINGHOUSE | V－1154＊．1／－2／－3／．4 |  |
| $\text { A-e } 241$ | cess．Columbia CROSLET | Pc10161．FC10147 157820 | 0.00 | moulel | MOTOROLA | 24K730002／3 | 8．${ }^{\text {a }}$ | － .1837 | WESTINGHOUSE | V．e9n4－1．V－10213－1 | 7.76 |
| A．825 | Crosley | 1540e9／－1．154900／2／3． | 6．3 | M0．281 | MOTOROL | 24K732584 | －12 | a．8237 | WEStinghbuse | V．p004－2，V－10204－1 | 6．76 |
| A． 8263 | Crosley | 158481－1／2／－3 | 7.58 | HO－281 | MOTOROLA | 24K732746／ | 4．02 | A． 2238 | WESTINGHOUSE | V．10214．1 | 1．66 |
| A． 1828 |  | 30－373， 2000426 |  | но－28 |  | $24 \mathrm{K733407}$ | 8．82 | A． 6267 | ZENITH | 5．15911／12．－1856－6 | 7.05 |
| A－324 | DUMONT | 2000s021 | 8．43 | Mo－212 | MOMOROLA | 24K73日690 | 8．32 | A．E2e7 | ZENITH | S－17130／40，${ }^{17233}$ | 7.08 |
| A－8250 |  | 200043A1 | 6．43 | H0－2e2 | MOLOROLA | 24C7364日7 $14 K 73 日 6$ P | 3．38 | A．${ }^{\text {a }}$－ 267 | ZENITH | 8－17245／265／438 | 7.05 |
| A－dess |  | 20008731 | c． 31 | A－siz | MUMTZ | T0－0024 | 7.10 | A．2267 | ZENITH | S．17846／767／811 | 7.05 |
| A－825 | DUMONT DUMONT | 2000 Pas 1 ／602 | 0．03 | A－242 | MUNTZ | T0．002A／2e | 6.53 | A．eze7 | ZENITH | S－17827， 20008 S－13013／202／709 | 7.05 |
| A．833： | TMUMONT | 738047／46／33／60 | 3．ey | A． 1313 | MUNTZ | T0．0031 | 6．53 | A．${ }^{\text {A } 268}$ | TEENITH | S－13013／203／709 S－13710． 16006 | 7.05 7.08 |
| 4．913 | EMEMSON | $738079 / 84$ | 4.43 | A． 2240 | YUNTZ | T0．0038 | 7.06 | A．2268 | ZENTTH | S．16191／204 | 7．03 |
| A． 233 | EMERSON | 73 7067／3 |  | A．828： | MUNTZ | T0．0039 | 7.08 | A． 8268 | ZENITH | s．17244／060／x | 7.08 7.08 |
|  |  | 68／69／73／74／73／82 | 7.25 | A．a21 | MUNTZ | Coss3／－1／－2／－2 | 6.63 | A－428 | 2EN1TR | S－29886 | 8.05 |
| － 4130 | EMERSON GE | 731000， 738100 | 4.43 | 4．－220 | PHILCOPHILCO | 32－8428／－1／．2 | 8.37 | A－${ }^{\text {a }}$ | ZENITH | S．18487／837／802 | 7.05 |
|  |  | ACDS is uned |  |  |  | 32．8563 Includink Term |  | A－2270 | 2ENITH | S． 1 14567／900 | c． 53 |
| a－asse GE |  | HTO． 101 | 7.15 | A－8221 | PHILCO | 32.8335 w／cap．，resintor | －． 22 | A－8270 | 2ENITH | S． 19728 | 6.53 |
| A． 8257 | GE | RTO－ 104 | 7.15 |  |  | \＆choke on board | 7.47 | A．eara | ZENITH | S． 19033 | 6．53 |
| －${ }^{-1360}$ | GE | RTO． 100 | 7.25 | A－222 | PHILCO | 32－8533／34 Same Comp． |  | A－8273 | ZFNITH | S．19408 | 6.53 |
| －－22s | GE | RTO．125／0／7 | 6.54 |  |  | as A．naz1 | 7.42 | A．E274 | 2ENITH | s .19408 $\mathbf{3} 21317$ | 4.53 |
| A．${ }^{\text {a }} 38$ | CE | 日To．129／30 | 6． 54 | A－8223 | PHILCO | $32 \cdot \mathrm{Bs72}$ with Choke on |  | A． 2275 | zENITH | 8．22130 | 7.64 |
| A． 328 | GE | RTO－131／－141／－146－3 | 6.11 |  |  | Term．Fint． | ©．${ }^{\text {e2 }}$ | －${ }^{\text {a }}$－ 278 | ZENITH | s．22134 |  |
| A．098 | CE | RTO．140／－1 | 6.27 | Mo－237 | PHILCO | 328686 | 7.47 | 4．8377 | ZENITH | 8．21219 | 8.94 8.33 |
| －．236 |  | RTO． $131 / \cdot 3$ | 6.31 | 4．1285 | PHILCO | 32．R677／．1／－2 | 7．83 | M0－267 | ZENITH | S． 20090 | 7.48 |
| $\begin{gathered} \text { - } 264 \\ \operatorname{mog} 252 \end{gathered}$ | $\begin{aligned} & G E \\ & G E \\ & G E \end{aligned}$ | Rto．161 | 6.17 | Ho．2E3 | Phizon | $32 \cdot 2034$ | 0.33 | H0．26月 | EENITH | $5-23048$ | 8．09 |
| －8．290 | GE | RTO．108／．${ }^{\text {R }}$ | 6．4． 08 | M0．276 | Prilico | 32．8624／1 | 0.47 | M0－269 | ZENITH | S－22720 | 6.14 |
| MO－2E3 | GE | RTO－175／187 | 6.05 | W6－275 | Philco | 32.8465 .2 | 5.41 | H0－270 | ZENTTH | S．18125 | 5．78 |
|  |  |  |  |  |  | 3－m00\％ | －． 12 | NO－271 | ZENITH | S．22431 | 6.51 |

## CHOKES－OUTPUT \＆POWER TRANSFORMERS STANCOR



## GENERAL POWER TRANSFORMERS

All Primaries For 117 V． 60 Cycles AC．
 except $\mathcal{C}$ is $C$ ond PS is $A$ ．

| $\begin{aligned} & \text { Sten. } \\ & \text { No } \end{aligned}$ | $V+$ | Ma |  | Ste | $\begin{aligned} & \text { Wr. } \\ & \text { Lbs. } \end{aligned}$ |  | 1.9 | 10.24 | 9 | ． 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P5－3415 | 125 | 15 |  | 2\％x1\％－2＂ | \％ | 6 | 2.31 | 2.09 | 1.88 | 1.74 |
| PS－6416 | 250 | 25 |  | 2－5／16 $2 \%=1 \%{ }^{\prime \prime}$ | 1 | 1.0 | 2.76 | 5.46 | 2.26 | 2.10 |
| PM－8401 | 470 | 40 | 2 | 2\％ $2 \times 2 \%^{\prime \prime}$ | 2\％ | 2.0 | 5.66 | 5.12 | 4.61 | 4.2 |
| PC． 401 | 470 | 40 | 2 |  | 2\％ | 2.0 | 3.38 | 4.87 | 4.36 | 4.0 |
| －1m－8402 | 480 | 55 | 2 | $23^{1 / 2} \times 2 \times 3{ }^{\prime \prime}$ | 2\％ | 2.0 | 5.50 | 4.97 | 4.47 | 4.15 |
| C－Lesor | 480 | 55 | 2 | 3－1／16 $2 \%=2 \% "$ | 24 | 2.0 | 5.35 | 4.84 | 4.35 | 4.01 |
| PM－8419 | 480 | 70 | － | 2\％n2\％a3＂ | 2\％ | 3.0 | 5.38 | 4.87 | 4.38 | 0 |
| 414 | 480 | 70 |  | 3－3／16x\％ $2 \%$ | $2 \%$ | 3.0 | 5.38 | 4.87 | 4.38 | 4.06 |
| Pat－403 | 500 | 70 | 2 |  | 314 | 2.5 | 6.21 | 5.62 | 5.06 | 4.69 |
| PC－8403 | 500 | 70 | 2 | 3．3／16 $2 \% \times 3 \mathrm{~K}$ | 3 H | 2.5 | 6.21 | 5.62 | 5.04 | 4.69 |
| 40 | 520 | ¢ | 2 | 3\％x3x3\％＂ | 4 | 3.0 | 6.88 | 6.22 | 5.60 | 5.18 |
| PM－8404 | 520 | ¢0 | 2 | 2\％ 5 \％n5\％ | 4 | 3.0 | 6.15 | 6.22 | 5.00 | 5.11 |
| 405 | 540 | 120 | 3 | 3\％$\times 3 \%_{0} 3 \%_{4}$ | 4K | 3.5 | － 2.8 | 8.11 | 7.30 | 6.76 |
| 105 | 540 | 120 | 1 | 4 $8314 \times 3 \%$ | 4\％ | 3.5 | 8.88 | 8.11 | 7.30 | 6.76 |
| PM－404 | 650 | 40 | 2 | 2K＝3m2\％＂ | 2\％ | 2.0 | 5.43 | 3.09 | 4.58 | 4.24 |
|  | 650 | 55 | 2 | 2\％ 3 \％ 3 \％＂ | 3\％ | 2.0 | 5.88 | 5.29 | 4.76 | 4.41 |
| －C．${ }^{\text {cos }} 04$ | 650 | 40 | 2 | $3.3 / 16 \times 2 \%=2 \%$ | 2\％ | 2.0 | 5.63 | 5.09 | 4.58 | 4.24 |
| FC－8407 | 650 | 55 | 2 |  | 34 | 2.0 | 5.86 | 5.29 | 4.76 | 4.41 |
| 108 | 680 | 70 |  | 3\％x $3 \% \times 3$＂ | 4 | 2.5 | 7.32 | 6.61 | 5.96 | 5.51 |
| PM－840： | 680 | 70 | 2 | 2\％п3\％ヶ3\％＂ | 4 | 2.5 | 7.32 | 6－1 | 5.96 | 5.52 |
| PM－840 | 700 | $\bigcirc$ |  | 2\％n3\％n3 ${ }^{\text {\％}}$ | 4K | 3.0 | 7.73 | 6.99 | 6.28 | 5.82 |
| 404 | 700 | 90 | 2 | 3\％ 3 3．3\％＊ | 4\％4 | 3.0 | 7.73 | 6.99 | 6.28 | 5.82 |
| Pin－310 | 720 | 120 | 1 | $3 \mathrm{~K} \times 3 \mathrm{4} \times 3 \%^{*}$ | 5K | 3.5 | 0.12 | 8.25 | 7.42 | 6.8 |
| NC－4 10 | 720 | 120 | 3 |  | 54 | 3.5 | 8.7 | 7.93 | 7.12 | 459 |
| P＊－8411 | 750 | 150 | 3 | 3\％x3K＝4\％＂ | 54 | 4.5 | 12.23 | 11.05 | 9.95 | 9.21 |
| PC－E411 | 750 | 150 | 3 | 4．5／16x $3 \% \times 4 \% *$ | 54 | 4.5 | 11.75 | 10.61 | 9.65 | 8.85 |
| －m－8．412 | 800 | 200 | 1 | 14841／xJ\％＊ | $81 / 4$ | 5.0 | 12.25 | 11．08 | 9.94 | 9.23 |
| P－8412 | 800 | 200 | 3 | 4x4x ${ }^{4} 4{ }^{\prime \prime}$ | 84 | 5.0 | 12.23 | 11.05 | 9.95 | 9.19 |
|  | 200 | 200 | 3 |  | 84 | 3.0 | 14.40 | 13.01 | 151 | 10.84 |

## FILAMENT TRANSFORMERS

| n．No | Vets | Amps | Ins | Iryo | Wt． | 1.9 | 1－24 | 25－49 | 50－99 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3004 | 6．3CT | 6.0 | 2，500 | $B$ | 2.4 | 8.32 | 7.32 | 6.76 | 5.00 |
| P－6134 | 6．3CT | 1.2 | 2，500 | ， | 0.8 | 2.09 | 1.69 | 1.70 | 1.58 |
| －6．308 ${ }^{\text {f }}$ | 6.3 CT | 10.0 | 2，500 | $N$ | 3.4 | 4.56 | 5.93 | 5.37 | 4.94 |
| P－5190 | 6.3 | 1.2 | 5，000 | $\wedge$ | 1.0 | 2.76 | 2.49 | 2.24 | 2.08 |
| － $\mathrm{P}^{-1910}$ | 6.3 | 1.2 | 5.000 | ， | 1.0 | 2.25 | 2.67 | 2.40 | 2.23 |
| P－6454 | 2.5 CT | 10.0 | 7，500 | S | 2.5 | 3.98 | 3.00 | 3.24 | 3.05 |
| －－4455 | 5.0 Cl | 6.0 | 2，000 | 5 | 2 | 4.32 | 3.90 | 3.51 | 3.25 |
| －6492 | $5.0 C 7$ | 30.0 | 2.500 | C | 7.5 | 10.89 | 9.84 | 8.86 | 8.20 |
| －468 | 5.0 CT | 30.0 | 2，500 | D | 4.3 | 12.73 | 11.51 | 10.35 | 9.59 |
| P－462 | 6.3 | 3.0 | 7，000 | 5 | 2.0 | 3．58 | 5.04 | 4.54 | 4.20 |
| －．0456 | 6．3CT | 6.0 | 2.000 | 4 | 2.0 | 3.80 | 3.44 | 3.09 | 2.86 |
| －caces | 6.5 CT | 13.0 | 2.000 | ev | 4.5 | 7.82 | 7.07 | 0.36 | 5.89 |
| －613： | 7．5CT | 8.0 | 2，500 | ov | 4.7 | 7.25 | 6.56 | 5.90 | 5.46 |
| －．5016 | 10.0 CT | 4.0 | 2，500 | sv | 3.3 | 6.03 | 5.45 | 4.90 | 4.54 |
| －－130 | 10.0 CT | 8.0 | 2，500 | av | 4.9 | 7.47 | 6.75 | 6.08 | 5.63 |
| － 8130 | 12.6 CT | 2.0 | 1，500 | 4 | 1.4 | 3.42 | 3.09 | 2.78 | 2.58 |
| 69 | 25.2 | 1.0 | 1，500 | A | 1.4 | 3.25 | 2.94 | 265 | 2.45 |
| P－457 | 7.5 CT | 21.0 | 2，000 | c | 8.0 | 12.65 | 11.43 | 10.28 | 9.52 |
|  | 10.0 Cl 10.0 Cl | 5.0 | 2,000 2,000 | sv | 3.0 | 4.68 | 4.23 | 3.81 | 3.53 |

## FITER CMOKES

| Som．Me | Qr | mo | Otins | Sheo |
| :---: | :---: | :---: | :---: | :---: |
| C－1001 | 10.5 | 110 | 225 |  |
| C－1080 | 3.5 | 50 | 200 | 1\％＝1 $1 / 202 \%$ |
| C－1215 | 9.0 | 50 | 500 | 1462\％ $11 \%$ |
| C－1325 | 9.0 | 50 | 250 | $14=21 / 6=11 / 2$ |
| C． $1410^{\circ}$ | 4.0 | 175 | 100 | 3－3／16：2\％ 2 24 |
| c．1411e | 4.5 | 200 | $\infty$ | 346n3a3\％ |
| C．1412＊ | 4.0 | 250 | $\infty$ |  |
| c－1460 | 5.0 | 200 | $\bigcirc$ | 4， $3 y_{1}=3 \%$ |
| C－1703t | 4.0 | 250 | $\infty$ | 31／202\％x3\％ |
| C－170 | 4.3 | 50 | 300 | 1\％年2\％x1\％ |
| C－1707 | 7.0 | 50 | 550 |  |
| C－1700 | 9.0 | as | 250 | 2． $31 / 2 \times 2$ |
| C－1721： | 8.5 | 200 | 120 | 31ヶロリォコ |
| C－1722t | － 0 | 300 | $\infty$ |  |
| C－2303 | 2.5 | 130 | 100 | 2n31／4 $=1 \%$ |
| C． 2304 | 2.3 | 150 | $\infty$ | 2x $31 /=1 \% / 4$ |
| C－2309 | 0.0 | 150 | $\infty$ | 21／4．3\％ $181 / 4$ |
| C－2325 | 2.0 | 200 | $\infty$ | 21／4 $=31 / 4 x 31 / 4$ |
| C－2326 | 1.0 | 300 | 43 | 21／6x3\％ $21 /$ |
| C－232\％ | 1.5 | 200 | 45 | 1\％／4 $21 /=11 / 8$ |
| C－232 | 0.3 | 375 | 25 |  |
| C－2334 | 2.8 | 300 | ¢0 | \％ $821 / 4=$ |


| Lbe． |
| :--- |
| 2.3 |
| 0.7 |
| 0.7 |
| 0.7 |
| 2.4 |
| 1.5 |
| 4.5 |
| 4.5 |
| 4.2 |
| 0.4 |
| 0.4 |
| 1.4 |
| 4.4 |
| 7.3 |
| 1.0 |
| 1.0 |
| 1.7 |
| 1.8 |
| 1.7 |
| 0.8 |
| 1.5 |
| 2.5 | | be． | 1.9 |
| :--- | :--- |
| 2.3 | 3.50 |
| 0.7 | 1.41 |
| 0.7 | 1.36 |
| 0.7 | 1.61 |
| 2.4 | 4.43 |
| 1.5 | 5.53 |
| 4.3 | 6.80 |
| 4.5 | 6.6 |
| 4.2 | 6.05 |
| 0.4 | 1.25 |
| 0.4 | 1.38 |
| 1.4 | 2.3 |
| 4.4 | 7.38 |
| 7.3 | 10.7 |
| 1.0 | 2.20 |
| 1.0 | 2.2 |
| 1.7 | 2.50 |
| 1.8 | 2.7 |
| 1.7 | 2.8 |
| 0.6 | 1.7 |
| 1.5 | 1.5 |
| 2.5 | 3.4 | 1.9

3.56
1.41
1.36
1.61
4.43
5.53
6.80
6.63
6.05
1.25
1.38
2.34
7.32
10.77
2.20
2.20
2.50
2.75
2.83
1.75
1.52
3.45

EEST VALUES－LARGEST STOCKS－DEPENDABLE SERVICE

# THORDARSON TELEVISION AND AUDIO TRANSFORMERS 

## UNIVERSAL AUDIO OUTPUT

| $\begin{gathered} \text { THOND. } \\ \text { Mo. } \\ \hline \end{gathered}$ | - M1-stc <br> IMPEDAMCE | ma | $\geq$ | TVPictims | 10s. | 1-0 | 10-24 | 25.40 | $50 \text { a }$ Over |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24580 | $4000 / 7000 /$ $8000 / 10000 /$ $24000 \mathrm{CT} / 10$ .10030 | 35 | 4 | ВНन 2 | 0.5 | 2.65 | 2.35 | 2.15 | 2.39 |
| 22597 | $\begin{aligned} & 2000 / 3800 / \\ & 1000 / 14000 \mathrm{CE} \\ & 800 \end{aligned}$ | 10 | * | BAM $2 \%$ | 0.75 | 4.12 | 3.70 | 3.33 | 3.18 |
| 22504 | $\begin{aligned} & 1030 / 3500 / \\ & 20000 / 14000 \mathrm{cT} / \\ & 8000 / 140 \end{aligned}$ | 10 | $s$ | BABI $2 \%$ | 1 | 4.12 | 3.70 | 3.33 | 3.15 |
| 2esen | $1000 / 7000 / 8000 /$ <br> 10000/14000 CT/ | 40 | $\cdots$ | AHH 2 \% | 1 | 2.85 | 2.818 | 2.28 | 1.80 |
| 24302 | $\begin{aligned} & \text { To }{ }^{2} \mathrm{~T}^{3} 30 \\ & 1800 / 2000 / 2500 / \\ & 3000 / 4000 \mathrm{CT} / \end{aligned}$ | 80 | 8 | BHY $2 \%$ | 1.25 | 5.7 | 8.8 | 5.08 | 4.78 |
| 22840 | $2800<1000 \mathrm{CT} /$ | 60 | 10 | (8AH $2 \%$ | 1.25 | 2.65 | 2.30 | 2.25 | 2.98 |
| 225se | 5000/7000 CT/ | 45 | 10 | BAH $2 \%$ | 1.25 | 6.30 | 5.67 | s. 11 | 4.82 |
| 22ss* | R000/10000 CT/ <br> To 3. | 35 | 10 | ВАН $2 \%$ | 1.25 | 3.22 | 2.00 | 2.61 | 2.40 |
| 2854 | $4000 / 7000 / 8000 /$ 10000/14000CT/ To. 1 To 30 | 40 | 18 | BHV $2 \%$ | 1.5 | 1.83 | 3.60 | 3.24 | 3.08 |

Units morked are humbucking with $3 \%$ and $6 \%$ lops. All are BAH-BAV mounting types and have 3.2 ohms secondary. 26559 also hos 8 and 16 ohm secondary

| $\begin{gathered} \text { TMOWD. } \\ \text { MP. } \end{gathered}$ | P日imatry IMPEDAMCE | 由те. <br> watys ctas. |  | Lf | 1-8 | 10-24 | 25-48 | $\begin{aligned} & 50 \text { a } \\ & \text { Over } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2154 | 1500-2500 | 5 | 2 | . ${ }^{\text {b }}$ | 2.84 | 2.05 | 2.30 | 2.25 |
| 22846 | 2000-3000 | 5 | 2 | . 6 | 3.32 | 2.80 | 1.70 | 2.34 |
| 22547 | 600007000 CT | 5 |  | . 5 | 3.12 | 2.81 | 2.33 | 2.38 |
| 24348 | $4000-5000$ | 5 | $13 \%$ | . 8 | 1.14 | 1.21 | 1.09 | 1.03 |
| 24530 | 3500 | 8 | $2 \%$ | . 5 | 1.45 | 8.31 | 1. 88 | 1.12 |
| $245304 *$ | 2000 | 5 | 2 | . 8 | 2.05 | 1.85 | 1. 57 | 1.58 |
| 24581 | 8000 | 5 | 2 | . 5 | 1.45 | 1.31 | 2.18 | 1.81 |
| 245sia* | 5000 | 5 | 2 | . 5 | 2.28 | 1.83 | 1.76 | 1.6 |
| 24582 | $7000-10000$ | 5 |  | 8 | 2-88 | 2.24 | 2.02 | 1.00 |
| 26547 | 14000 CT | 12 |  | 1.8 | 2.76 | 2.32 | 2.27 | 2.14 |
| 2654 | 7000 8000 | ${ }_{8}^{8}$ | 2 23 | .75 .75 | 2.35 2.08 | 2.12 | 3.00 | 1.80 |
| 26ss0 | 8000 3800 | $\stackrel{H}{8}$ | 2 2 | . 75 | 2.03 2.35 | 1.185 | 8.47 | 1.55 |
| 2858 | 2500 | 3 | $18 / 2$ | . 4 | 2.30 | 8.12 | 1.30 | 1.23 |
| 2688 | 10000 CT | 10 | $21 / 4$ | 1.0 | 3.09 | 2.77 | 2.50 | 3.36 |

FILAMENT TRANSFORMERS
All primaries ore 117 Volt $50 / 60$ cycle except * which is 6.3 V . All units are desioned
to RETMA stondords and color code.

| $\begin{aligned} & \text { TMORO. } \\ & \text { MO. } \end{aligned}$ | $\begin{aligned} & \text { Mre. } \\ & \text { TVPE } \end{aligned}$ | SECOMDAAV <br> VOLTS AMPS |  | whices. |  | 1-9 | 10.24 | 23-4 | so at |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 21703 | BAY | 5 CT | 3.0 | 2800 | 1.0 | 4.18 | 3.73 | 3.30 | 3.19 |
| $21 \% 06$ | BAV | 6.3 Cx | 1.0 | 2500 | 1.0 | 2.06 | 1.85 | 1.67 | 1.38 |
| 2150 | Hay | 6.3 CF | 1.2 | 2500 | 1.0 | 2.00 | 1.85 | 2.67 | 2.80 |
| 21710 | sali | 8.3 CT | 3.0 | 2800 | 1.25 | 3.32 | 2.00 | 2.70 | 2.54 |
| $21 \% 12$ | CAV | 6.3 CT | 6.0 | 2500 | 2.75 | 4.es | 4.37 | 3.84 | 3.72 |
| 31782 | CAV | 6.3 CT | 10 | 2500 | 3.25 | E. 17 | 5.56 | 5.08 | 4.73 |
| $21 F 27$ $26 F 60$ | HAH | $\underset{\substack{20.8 \\ 8.3}}{ }$ | 1. 6 | 3000 8000 | 1.25 | 3.82 | 3.44 | 3.10 | 2.83 |
| 2EFEt | BAli | ${ }^{1 / 3} \mathrm{CT}$ | 3.2 | 5000 2500 | 1.28 | 2.70 | 2.43 | 2.18 | 2.07 |
|  |  | 6.3 | 3.6 | 2800 |  | 7.6 | 0 | . 21 | * |
| 26503 | BAv | 6.3 8.3 | 3.0 3.0 | 5000 8000 | 2.0 | 5.44 | 4.8 | 4.32 | 4.18 |
| 20F*4 | GGV | $23.3$ | $\begin{aligned} & .320 \\ & 6.0^{.2} \end{aligned}$ | $\begin{aligned} & \text { Tapped } \\ & \text { On } \end{aligned}$ | 3.5 | 7.8 | -. 0 ? | 6.18 | 5.84 |
| 2¢Fs* |  | 6.3 | 1.2 | 3500 |  |  |  |  |  |
| 2EF67 | 8AH | ${ }^{4} .3$ | 1.2 | 8000 | 1.25 | $2 \cdot 18$ | 2.62 | 2.38 | 2.23 |
| 267Es | HKF | 6.3 | 2.0 | 2500 | 1.0 | 3.36 | 3.03 | 2.71 | 2.50 |
|  |  | 6.3 | 8 | 2500 | 3.0 | -.58 | 5.8 | 3.45 | 5.05 |
| 21F34 | BAF | 2.3 CP | 1.5 | 2300 | . 7 | 2.70 | 2.43 | 2.19 | 2.07 |
| 28F35 | HAH | 2.3 CT | 2.3 | 2500 | . 7 | 2.94 | 2.65 | 2.36 | 2.26 |
| 28FO2 | BAV | 2.3 CF | 10 | 2300 | 2.5 | 4. ${ }^{\text {d }}$ | 4.27 | 3.76 | 3.58 |
| $21 F 02$ | cav | 2.5 CT | 10 | 10000 | 2.75 | 6.47 | 8.63 | 5.07 | 4.79 |
| $21 F 06$ | cav | 5.0CT | 13 | 2800 | 3.25 | 8.02 | 7.11 | 6.40 | 6.04 |
| 21540 | HAY | A.3Ct | 3 | 2500 | 1.0 | 3.53 | 3.15 | 2.97 | 2.72 |
| 21700 | BAY | 2.5 CT | 5 | 2500 | 1.0 | 2.84 | 2.65 | 2.36 | 2.26 |
| 21F31 | EAV | 2.5 CT | 5 | 7500 | 1.5 | 3.72 | 3.35 | 3.02 | 2.85 |

FILTER CHOKES
All chokes are BAH mounting type except ones which ore mounting type GGV.

| $\begin{gathered} \text { TMOND. } \\ \hline \text { NO. } \\ \hline \end{gathered}$ | MYS. | ma | OMMS | 312\% | Les. | 1-* | 10.24 | 25-45 | so a over |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20cse | 8. | 160 200 | 58 | 286x25/0x4 | 2.6 | 4.16 | 2.65 | 2.30 | 2.25 |
| 20cs3 | 178 | 180 280 80 80 100 | 375 | $2 \times 21 / 6 \times 3$ /4 | 1.5 | 2.58 | 2.34 | 2.11 | 2.85 |
| 20cs4* | 8 | 100 100 160 | 143 | 31/6x2\% 5 \% $\%$ | 3.0 | 4.55 | 4.10 | 3.00 | 3.48 |
| 20css* | 1 9 8 | 100 200 150 200 700 | 75 | $31 / 2 \times 27 / 6 \times 1 / 4$ | 3.8 | 5.82 | 5.24 | 4.12 | 4.40 |
| 20cse* | 2 8 8 | 300 300 250 300 | 60 | $31 / 6 \times 55 / 4 \times 1 / 4$ | 6.75 | -. 28 | 0.34 | 7.31 | 7.00 |
|  |  | 878 |  |  |  |  |  |  |  |
| 2ecta | 1.6 | 200 80 | 80 200 | 1\%xis/8x $2 \%$ | ${ }_{0}^{0.75}$ | 1.76 1.82 | 1.88 1.46 | 1.43 1.32 | 1.36 1.25 |
| $26 c 43$ | 2 | 200 | 80 | 2xivxim | 1.0 | 2.88 | 2.60 | 3.32 | 1.25 2.21 |
| 2ecs4. | $10^{1}$ | 300 200 | 60 140 | $2 \times 21 / 85^{31 / 6}$ | 1.5 | 3.28 | 2.97 | 2.68 | 2.86 |
| 2 cas - | 10 | 200 | 140 | $31 / 2 \times 27 / 0 \times 41 / 4$ | 4.9 | 7.12 | 6.40 | \%.76 | 3.44 |

## ECONOMY "24" BOWER TRANSFORMES

Types ending with $U$ are for upright mounting Fig. GGV. Others hove odiustoble brackets 10 ollow llush, vertical or horizontal mounting Fig. AGF. All hove 110.120 volt $50-60$ cyele primaries. FiI. I windings are CT. *All plate windings are center-
topped. volt 50.60
lopped.

| Mira. <br> Typo |  |  |  |  |  |  | Mtg. Ctrs | $\begin{aligned} & \text { Wi. } \\ & \text { Lbe. } \end{aligned}$ | 1-9 | 10-24 | 25.4 | 50 a Over |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24800 | 480 | 40 | 5 | 2 | 6.3 | 2.0 | $2 \times 21 / 2$ | 2 | 5.65 | 5.09 | 4.59 | 4.34 |
| 24nno- | 480 | 40 | 5 | 2 | 6.3 | 2.0 | 2x1\%. | 2 | 5.42 | 4.88 | 4.40 | 4.16 |
| 24801 | 650 | 40 | 5 | 2 | 6.3 | 2.0 | $2 \times 21 / 2$ | 23/4 | 5.64 | 5.08 | 4.57 | 4.33 |
| 24R01.0 | 650 | 40 | 5 | 2 | 6.3 | 2.0 | $2 \times 1+$ | 21/4 | 5.64 | 5.08 | 4.37 | 4.33 |
| 24102 | 700 | 70 | 5 | 2 | 6.3 | 2.5 | $21 / 4 \times 2+$ | 4 | 7.35 | 6.62 | 5.96 | 5.63 |
| 24804 | 700 | 90 | 5 | 3 | 6.3 | 3.5 | $21 / 4 \times 2+$ | 41/4 | 8.01 | 7.21 | 8.49 | 6.13 |
| 24n04-U | 700 | 90 | 5 | 3 | 6.3 | 3.5 | $2 / 4 \times 2 \%$. | 41/4 | 8.01 | 7.21 | 6.49 | 6.13 |
| 24.05 | 700 | 120 | 5 | 3 | 6.3 | 4.7 | $21 / 2 \times 31 /{ }^{\circ}$ | $51 / 4$ | 8.64 | 7.78 | 7.01 | 6.61 |
| 24R05-0 | 700 | 120 | 5 | 3 | 6.3 | 4.7 | $21 / 2 \times 2+{ }^{\circ}$. | $51 / 4$ | 8.64 | 7.78 | 7.01 | 6.61 |
| 24R0S | 750 | 150 | 5 | 3 | 6.3 | 4.7 | $23 \times 3$ \% ${ }^{\text {a }}$ | $61 / 2$ | 12.30 | 11.07 | 9.97 | 0.31 |
| 24R06-0 | 750 | 150 | 5 | 3 | 6.3 | 4.7 | $21 / 4 \times 2+\ldots$ | $61 / 2$ | 11.79 | 10.62 | 9.56 | 9.02 |
| 24R07 | 800 | 200 | 5 | 3 | 6.3 | 5.0 | 3x3y.. | 91/2 | 12.33 | 11.10 | 9.99 | 9.43 |
| 24RO7-0 | 800 | 200 | 5 | 3 | 6.3 | 5.0 | $3 \times 3$ H" | $91 / 2$ | 12.30 | 11.07 | 9.97 | 9.40 |
| ECONOMY "24" SERES TUAE-TO-VOICE COH OUTPUT TRANSFORMESS |  |  |  |  |  |  |  |  |  |  |  |  |

Fig. BAH. For economical replacement use in mosi popular radios. All have single 3.2 -ohm secondaries and are rated Closs $A$

| $\begin{aligned} & \text { Mls's } \\ & \text { Type } \end{aligned}$ | Primary Impedance | Pri. Ma | W | Mig. Cirs. | Wt. <br> Lbe. | 1.9 | 10.24 | 25.49 | $\begin{aligned} & 50 \text { E } \\ & \text { Over } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2454 | 4.000-5.000 | 10 | 5 | 13/4 | 1/2 | 1.34 | 1.21 | 1.09 | 1.03 |
| 24543 | 7.000-8.000 | 10 | 5 | 13/4 | $1 / 2$ | 1.34 | 1.21 | 1.09 | 1.03 |
| 24850 | 2.000 | 55 | 5 | 2 | $1 / 2$ | 1.45 | 1.31 | 1.18 | 1.11 |
| 24551 | 5.000 | 40 | 5 | 2. | $1 / 2$ | 1.45 | 1.31 | 1.18 | 1.11 |
| 21852 |  | 30 | 5 | 2. | 1/2 | 1.49 | 1.35 | 1.22 | 1. 15 |
| 24554 | 15.000-25.000 | 10 | 5 | 2. | $1 / 2$ | 1.60 | 1.44 | 1.30 | 1.23 |

TUEE-TO-LENE TRANSFORMERS (LOW LEVE)
Primary for single or PP ploles. Sec. to line. $60-15,000 \mathrm{cps} .22591$ hos hum-bucking construction. Shpg, wt., $1 / / \mathrm{lbs}$.

| Trpe | Fig. | Pri. | See. | Ctres. | 2.0 | 10-24 | 25-49 | 50 a Over |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 29850 | FGV | 20.000 CT | 125.200.500 | 23" | 4.12 | 3.71 | 3.34 | 3.15 |
| 2891 | BAH | 20,000 CT | 125.200.500 | 27/4. | 3.18 | 3.44 | 3.10 | 2.93 |

## UNIVERSAL LINE-TO-VOICE COIL

Fig. BHH. Secondory tops mork ith Impedonce values. *Also market far 70 . power distribution service.

| Mtr" <br> Type | Primary Impedance | $\begin{aligned} & \text { sec. } \\ & \text { Inep. } \end{aligned}$ | Wett | Wt. <br> Lbs. | 1.9 | 10.24 | 25.49 | 50 B Orer |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 22580 | 500, 600 |  | 8 | $21 / 2$ | 4.56 | 4.11 | 3.70 | 3.59 |
| 22512 |  |  | 25 | $21 / 2$ | 5.19 | 4.68 | 4.22 | 3.99 |
| 22.883 | 2000/1500/ | 3.2, 8, 16 | 15 | $21 / 2$ | 4.41 | 3.97 | 3.58 | 3.38 |
| 22584 | 1000/500 | 3.2. 8. 16 | 5 | $21 / 2$ | 4.12 | 3.58 | 3.23 | 3.06 |
| 27385 24566 |  |  | 3 | $21 / 2$ | 4.41 | 3.97 | 3.58 | 3.38 |
| 24566 | $\begin{array}{cc} 2000, & 1500 \\ 1000, & 500 \end{array}$ | 3.2, 8 | 10 | $11 / 2$ | 2.96 | 2.67 | 2.41 | 2.28 |
| 24562* | 3000. 2500 |  |  |  | 5.76 | 5.19 | 4.68 | 4.43 |
|  | 1000. 500 | . $06-48$ | 10 | 21/2 |  |  |  |  |

## AUDIO INPUT TRANSFORMERS

Electrostotic shielded. Response, 250-3500 cps. \$Responce, $60-7500 \mathrm{cps}$, hum-bueking construction. All Fig. BAH except 20AO1, Fig. FGV. Av. shpg. wi., 1 lb,

| MIr's <br> Type | Turns Ratio | Applicetion | Mig. Cirs. | 1.9 | 10.24 | 25-49 | $504$ Orar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| -20100 | 110 | Line of mic to sgl or PP grids | $2 \cdot$ | 3.33 | 3.18 | 2.87 | 2.71 |
| +20A01 | 120 | Line or mic to sal grid | 22\% | 4.39 | 4.14 | 3.73 | 3.53 |
| -20104 | 11 <br> 120 <br> 1 | Vorce coil or mic 10 grid | 2 | 1.8 | 1.79 | 1.62 | 1.54 |
| 2010 | 120 | Line or mic to sgl. grid | 2\% | 4.24 | 3.82 | 3.62 | 3.25 |
| 20 A11 | 120 | Line or mic to sgl or DP grids | 21/6 | 2.33 | 2.18 | 2.87 | 2.72 |

## AUDFO ENTEASTAGE TRANSEORMESS

Primory current, 8 ma. Type 20125 has spllt secondory, hum-bucking coll and core. -Hos wire leads. All Flg. BAH oxcept 20423 and 20A24., Fig. FGV 20A25, Fig. RTV, and 20A29, Fig. BAV. Av. shpg. Wi., IV/ Ibs.

| Mir' <br> Type | Turns Hatio | Applicetiod | Mig. Cire. | 1.9 | 10-24 | 25-49 | $50 \text { a }$ Over |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| -20A16 | 12 | Sgl plate 10 sgl . or PP grids | 2 | 2.79 | 2.52 | 2.27 | 2.14 |
| - 20 A17 | 12 | Sgl plate 10 sgl or PP grads | $1+$ | 5.55 | 5.05 | 4.55 | 4.10 |
| 20 A19 | 1:3 | Plates to grids, sgl or PP | $2 \%$ | 2.47 | 2.23 | 2.01 | 1.90 |
| $20 \wedge 22$ | 1.3 | Sgl plate to sgl or Pp grids | 2\% | 3.09 | 2.79 | 2.52 | 2.38 |
| 20 A23 | $1-3$ | Sgl plate to sgl or PP grids | 2\% | 5.59 | 5.04 | 4.54 | 4.29 |
| 20 A24 | 11.31 | PP plates to PP grids | 23/ | 5.10 | 4.59 | 4.14 | 3.91 |
| 20825 | 1141 | Plates to grids. sgl. or PP | 1\%.. | 10.29 | 9.27 | 8.35 | 7.89 |
| 20829 | 111.1 | Univ car radio interstage | ${ }^{\circ}$ | 3.09 | 2.79 | 2.52 | 2.38 |

Page 128

THORDARSON TRANSISTOR TRANSFORMERS

## 

## APPLICATIONS

A Input 0 Driver
s Output J Interstage
iso milliwatts

| Port No． |  |  |  | $11 / 161$ Appli－ cotion | $\begin{gathered} 16 \times 4 \\ \text { Parr } \\ \text { Part } \\ \hline \end{gathered}$ | $w \mathrm{dg} .=1$ | ionce <br> Wde． 42 | Turn： Rodio | Appli－ cotion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ¢ | bill | $1{ }^{1 / 4}$ | ， | 三 |  | S． |  | ．1511 | ij．${ }_{\text {a }}$ |
| TR．102 | \％ish |  | \％\％ |  | Tillio | ${ }^{5}$ |  |  | $1 . J$ |
| 榽 ${ }^{16}$ |  |  | ＋ |  |  |  |  |  |  |
|  | ¢ | ， | S＂： | $\stackrel{3}{5}$ | 군． 2.23 | \％ | ${ }^{2} 16$ |  | ${ }_{\text {s }}^{\text {s．}}$ |
|  | sunt |  |  |  |  | （10， |  |  |  |
| ＋ | coly | ， |  | 5 |  | 2， | ， |  |  |
|  |  | ${ }_{+1}{ }^{\text {c }}$ |  | s |  |  | （， |  | is |
|  |  |  | 1\％ | ${ }_{3}$ |  | ， | Huct | 3is． | ${ }_{\text {A．}}^{\text {A．}}$ |
|  | 3.65 | 10.24 eoch 3 |  |  | 25.4 | soch 2.97 | 50 and ove | ch 2.86 |  |

300 MILLIWATTS


So Milliwatts


Translstor Power Supply Transformers
Recent developments in the power tronsistor fleld hove mode possible the design of circulis which ore efficient and rugged canverters af low valtoge DC to high valtoge AC or DC power．These fromsistorized power supplies are ldeolly suited far powering all kinds af battery operoted avipment such os mabile communicotion systems，air－ 117 Volts 60 CPS fram on outomobile bollery so as to operate 117 V rodio，tele vision，electric shavers，elc．
These trensistor pawer supply transformers give a wide ronge of voltoge ond power

|  |  | $\text { on } 0116^{30}$ |  |  | m. | wt． 8 ot． imensions w． m ． | 1－8 | 10－24 | 25－4． | $\begin{aligned} & \text { so a } \\ & \text { over } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TA－60 | 12 | －117VAC | 50 | 6riv | 3－1／8 | 2.5 Mx2－5 8 | 18．78 | 10．8 |  | 8.98 |
| TR－70 | $1_{12}^{2}$ | －117VAC． | 110 | 6icy | $3.1 / 8$ | $3.510 \times 2.3 / 8$ | 11．78 | 10：3 |  | E．ts |
| TR－72 | 12 | －117var | 2511 | G6v | 4．5／ | 3．13 16x4．9／16 | 25： | 18. |  | 13. |
| 78．73 | 21 | －Hovis | （00） |  |  |  | 2.17 |  |  |  |
| TR．75 | 12 | 2 mive | 26 | TAv | 2－1，4 | $1.7 / 8 \times 2.718$ |  |  |  |  |
| TR－76 | B | 22 VIM | 15 | TAv | 2－1／4 | 1．7）882－7 ${ }^{\text {1 }}$ |  |  |  | 6.5 |
| TR．7T | ${ }_{12}^{13}$ | 225VIE | 20 | TAv | 3.14 | 1．7／8x2－7／16 |  |  |  | 8．78 |
| TR．7 |  |  |  |  |  | 16 |  |  |  |  |
| T\＆－60 | 12 | 2501 VIx | 511 | tav | 3－7． | 2．1／4x2－11／16 | 12.35 | 11.12 |  |  |
| TR－E1 | 12 | 25uvix | 101 | TAY | 3.3 3.1 | $2.1 / 2 \times 3$. |  |  |  | 12 |
| TR．82 |  | 275vire | 4 | TANH | 2.14 | 1．7 $\mathrm{F}^{2} \times 2.7$ | 11.76 |  |  |  |
| T | 12 | 3 300 ${ }^{\text {c }}$ SOVEC | 20 |  |  | 2－17x－1718 |  |  |  |  |
| $T$ | 12 | 325 VIX | 30 | пан |  | 2．3 日x－716 | 14.76 | 10 |  | ． 8.93 |
| 7.86 | 12 | 35，1VIK | 30 | TAV | 2．1／4 | 1.7 ， $1 \times 2.16$ |  | 11．${ }^{3}$ |  | 7．50 |
| TM | 12 | 375 Vbe | 70 | गАн |  | 2－328x2－716 | 12.84 |  |  | 9.91 |
| $7{ }^{\text {F }}$ |  | 7（c）vix |  | － |  | 2－17x2－1715 |  |  |  |  |
| 7R．90 | 12 | 1504235 VDC | 46 | TAV | 2．7／8 | 2－1／4x2－11／16 | 10.77 |  |  |  |
| TR－1 | ${ }^{12}$ | 430 Vix | 1211 | tay | 3.316 | $2.1 / 2 x 3$ | 26.17 | 18. |  | 12. |
| TR．O2 | 12 | Snoz ${ }^{\text {S }}$ | $10 \%$ | TAV | ${ }^{2-7}$ | 2－1／6x2－11／1 | 11.76 |  |  |  |
| TR－94 | 12 | 300 ybx | T6\％ | 1ay |  | 2．1， $2 \times 3$ |  |  |  |  |
| TR．95 | 12 | 600VDC | $12{ }^{12}$ | DAM |  | 4．1．Nx．3 | 18.17 | 14.8 S | 13.18 |  |
| TR．96 | 12 12 12 | ¢000VPC | 120 | TAy | 1．5／18 | $2.1 / 2 \times 3$ $2.1 / 2 \times 3$ | 13．17 | 13．76 | 13.21 | 12.23 12.65 |
|  | ${ }^{12}$ | 1400ypc | 20 | TAY |  | $2 \cdot+12+18$ |  |  |  |  |
|  |  | 200－225 |  | rxy | 2－7／8 | 2－1／42－17／16 | 1.70 | E． | ． | 1.40 |
| TH． 100 | 25 | 21115 ${ }^{\text {chens }}$ output | 200 | TAV | 2－1／4 | 1．7／8×2．7／16 | 12.38 | 11.12 | －．te | 9.42 |

## POWER TRANSISTOR OUTPUTS

All Type BAV except＊BAH Averoge Shpg．wi．，I lb．Avg．shpg．wi．， 4 az

| Part Na． | Impe <br> Primary | dance Secondory | $\left\|\begin{array}{c} \text { Primary } \\ \text { MADC } \end{array}\right\|$ | Mig． Centers | 1.9 | 10．24 | 25．49 | 508 Over |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TR－57＇ | 32 CT | 1．6／4 | 575 | 2．13／16 | 4.56 | 4.11 | 3.70 | 3.50 |
| TR－58＊ | 32 CT | 3．2／8／16 | 575 | 2．13／16 | 4.56 | 4.11 | 3.70 | 3.50 |
| TR－59 | 48 CT | 1．6／4 | 550 | 2\％ | 4.56 | 4.11 | 3.70 | 3.50 |
| Th． 60 | 48 CT | 3．2／8／16 | 550 | 2\％ | 4.56 | 4.11 | 3.70 | 3.50 |
| 1－61 | 18 CT | 3．2／8／16 | 550 | 1\％ | 2.26 | 2.04 | 1.84 | 1.74 |
| TR－62 | 100 | 3．2／8／16 | 150 | 1／2 | 2.26 | 2.64 | 1.4 | 1.27 |
| TR－63 | 100 CT | 3．2／8／16 | 500 | 2\％ | 4.12 | 3.71 | 3.34 | 3.26 |

## HI－FI TRANSISTOR TRANSFORMERS

Completely Encased．Responte $\pm$ Yhdb $2020,000 \mathrm{cps}$ ．Type XAV Mnte．Centers


| TR－67 | $125 C T$ | 8 | $50^{\circ}$ | 1.5 | 5.88 | 5.30 | 4.77 | 4.35 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| TR－68 | 5000 | $3000 C T$ | $20^{\circ}$ | .20 | 6.47 | 5.83 | 5.25 | 5.06 |




DRIVER All Tyo \＆AM．Shpg．wh．，I Ib．


## SPECIAL LAFAYETTE TRANSFORMER VALUES


 6．3 VOLT FILAMENT TRANSFORMER
Primory 115 V ．Secandory 6.3 V al 1 amp ．Shpg．wi．， $1 / 4 \mathrm{lbs}$ TR－11－Singly，coch．．．．．．．．．．．．．．．． 89 amp．Shpo．Wf．， $1 / 4$ lbs． Lots of 5，Eo．．．．．．．． 81 UNIVERSAL OUTPUTS Moich ony single ar push－pull autput lubes ta any vaice cail．Shog．W1．， $3 / 4 \mathrm{lbs}$ ．
 YR－13－8 wal－singly，each．．．．．．．．．．．I．4s TRATOR TRANSFORMERS
YIBRATO
Delivers 200 VDC of 55 mils．W leods with lopped primary and secandory．Size $21 / 4^{4}$ $x 1 \%{ }^{\prime \prime}$ ． $13 / 4^{\prime \prime}$ above chossis， 2 screw maunt an $13 / 4^{\prime \prime}$ centers．Overall depth $21 / 4^{\prime \prime}$ ． Shpg．wt．， 2 lbs．
TR－77－far of cors $\}$ either iype，in lals of 3，eoch
TR．78－for 12 V cart $\}$ either irpe，in lals of 3 ，
STEP DOWN AUTO TRANSFORMERS
230 to 115 V ．All supplied with $0^{\circ}$ Heovy duty line Cord and built in receptacle．

| Stack | Cord and Wattoge | Primary | Second ory | SHPG WT | Singly coch | Lots of 5 each |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TH－100 | 100 | 230 | 115 V | S | 4.00 | 3.60 |
| TR－101 | 150 | 230 | 115 V | 5\％ | 4.65 | 4.20 |
| T1020 | 250 | 230 | 115 V | 8 | 6.40 | 5.80 |
| TR－103 | 350 | 230 | 115 V | $91 / 3$ | 6.85 | 6.15 |
| TR－104 | 500 | 230 | 115 V | 14 | 8.65 | 7.80 |
| TR－105 | 750 | 230 | 115 V | 19 | 11.50 | 10.35 |
| TR－106 | 1000 | 230 | 115 V | 25 | 15.40 | 13.90 |
| T：－107 | 1500 | 230 | 115 V | 31 | 18.35 | 16.50 |

Page 129

## UTC TRANSFORMERS

＂DIT＂SUEMINIATURE TRANSISTOR TRANSFORMERS


These pransformers weigh only .06 o2．ond ore $5 / 16^{\prime \prime}$ dio． x $1 / 4$ long．Ther have low distortion，high efliciency and eficellent response．The moisture proof case is hermetically seated to MIL－7－27A specs．The solder melting plostic in． It．pull－tast．Especiolly suitable for sub－minieturization． Shpe．wi．， 4 ozs．

| MTE. | applice： | Plimery | encontary | $1-24$ | $25.09$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Da－T3 | Onep put | $300 ; 6010$ | 50－60 | 8.2 | 50 |
| bl．t | Ohiput | 1K．1．2N |  |  |  |
| －1－T\％ | Remetor | 2.5 mys at |  | 4.70 |  |
| 8，${ }^{\text {O2，}}$ | Oreput | 100．12．5x | 500.600 | 6.47 |  |
| O1．720 | Dityer | 10K－12．5K | 1．2x．1．5K |  |  |
| －${ }^{\text {diti }}$ | Driver | 10k－22x | 2i－2．5k |  | 3．30 |
| DE．T8 | Ousput | 300 |  | 5．0 | 5.00 |
| P1．720 | Outpue | 500 | 4100 |  | 3．00 |
| Di－723 | Interaise | 1300 $200.30 x$ | 8200.15 |  | 3.09 |
| －8．725 | Interatige | 10k．12k | 1．3x－1．8k |  | \＄00 |
| Di－r | Rrector | 4.5 hys at 2 | ma DC |  | 4.75 |
| 98.7 | kencier | 9 hye at 2 | ma DC | 4.70 | ．00 |
| 1．72 | Recctior | $1 \mathrm{hrgran}^{4}$ | mat DC |  | ．00 |
| D8－T30 | lsoi． | tok | 10E | 7.35 | ． 24 |
| DI－TSH | Drown D1－T5． | alloy shie | 8 cover for DB，hielding |  |  |

## ＂DOF＂＇DECI－OUNCER TRANSISTOR TRANSFORMERS



These miniature tronsformers weighing only $1 / 10$ ex．and $5 / 16^{\text {＂}}$ diom．$\times 13 / 32^{\circ}$ long hove a high degree of efficion cy and excellent response．They are encased in a moisture proof hermotically sealed case which hos firmly anchared， solder melting platic insulated leads，ideally suited for arinted circuits．Avalloble with leads of both ends on production order．If clip mounted use AUGAT＊4009－8A Oip．Shpg．wi．， 4 oz．




SUB AND SUE SUB－OUNCER TRANSFORMERS
deal for vitre－minicturired equipment cos．Subponse $\pm 3$ db 200 to 5.000
 $1 / 3$ or．Fired imp，rotio； $1250: 1$ for $50-1$ and 550.1 ； 1：50 for 50.3 and 550.3 － $50.5,2575$ ohm DC resistance： \＄SO－5， 4400 ohm．Shpg．w．． 4 ozs

\section*{ <br>  <br> First letter in UTC No．indicates function B－bondposs； M high pass；L－law past．Last letter I－interstage $\$ 10,000$ ohms）；（Lline（ $500 / 600 \mathrm{ahms}$ ）shielded；reduce hum pich up to 150 mv per gouss at 60 cps ．Hermetically seoled． Sire $1.3 / 16^{\circ} \times 1.11 / 16^{\circ}=1 /{ }^{\circ}=$ ．except $\cdot 1-3 / 16^{\prime \prime}=1$ $11 / 16^{-}=21 / \%^{*}$ ．Av．shpg．wi．e $9^{\circ}$ or <br> | UTC \％4． | cps | 1－24 En | 25．U．E |
| :---: | :---: | :---: | :---: |
| 8M1－60 | 60 | 25．46 | 22.45 |
| BIn1－100 | 100 | 26.46 | 22.49 |
| B ${ }^{\text {ma }} 1-120$ | 120 | 26.46 | 22.45 |
| Bn1－400 | 104 | 26.46 | 27.45 |
| 8M1－50 | TM4 | 26.46 | 22.49 |
| 8 ${ }^{1} 1.730$ | 750 | 26.45 | 22.49 |
| 8 M1－1．000 | 1．000 | 26.46 | 22.49 |
| BM1－1．500 | 1.100 | 26.46 | 22.45 |
| 日M1－3． | 3．000 | 26.45 | 22.49 |
|  | 10．0ins | 26.46 | 22.49 |
| B ML．400 | 100 | 26.46 | 22.49 |
|  | 1．0031 | 26.46 | 22.49 |
| －H ${ }_{\text {成（－200 }}$ | 200 | 29.40 | 25.00 |
| －H ${ }^{\text {H1／500 }}$ | 700 | 25.40 | 25.09 |
| －HM1－6．000 | 1，900 | 29.40 | 25.60 |
| － H M1． 3.000 | 3.000 | 29.40 | 25.00 |
| －H M L－200 | 204 | 32.34 | 26.51 |
| －NML－500 | 5 mo | 32.34 | 26.51 |
| －HML－1．000 | 1.000 | 32.34 | 26.51 |
| 1．M－200 | \％00 | 29.40 | 25.00 |
| L㟨 1.500 | 500 | 22.4 | 25.00 |
| L M1．1．000 | 1．00N | 23.40 | 25.00 |
| L－1．2．000 | \％．0inl | 25.40 | 25.00 |
| －1．1－2．500 | 2．ins | 23.40 | 25.00 |
| － 101.3 .000 | 3.0011 | 29.40 | 25.00 |
| LM1－3，000 | 5.400 | 23.40 | 25.00 |
| C⿴囗十介－10．000 | 19．m0 | 25.40 | 25.00 |
| L M－1．000 | 1．4010 | 29.40 | 25.0 |
| 1415－2．000 | $\cdots$ ．040 | 29.40 | 25.60 |
| LmL－2．500 | 2，0en | 29.40 | 25.00 |
| LWL－4．003 | $4 . \mathrm{mm}$ | 23.40 | 25.00 |
| ㄴ．Mㄴ－8．000 | 8．00w | 23.4 | 25.0 |
| －Lide18．000 | 10，004 | 29.40 | 25.00 |
| ${ }^{\text {L }}$ ML－12．000 | 12．00v | 29.40 | 3. | <br> NVC HERMETIC VARIDUCTORS}

Hermelicelly weeled to MIL－T－27A．Very wide inductonco range with high 0 ．Usoble over a wide frea，range．High sobility．Comperl．Size $1 \% \times 25 / 32=17 / 32^{\circ}$ ．Wh．， 2

| Tew | now. Myse. | Mys. | mane。 | me. | $\begin{gathered} 1.24 \\ \hline 0.0 \end{gathered}$ | $259$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HYe－1 | ． 102 | ． 008 |  | 100 | 2．a | 7.40 |
| MYC－z | ． 0103 | ． 015 | ．03 | 0 | 6．ta | 7.40 |
| Huc－3 | ． 012 | 110 | ． 1 | 40 | 6．4 | 7.40 |
| wuc． | ．07 | is | 7 | \％ | 8.82 | 7.40 |
| Huc | 2 |  |  | 13 |  | $7 \cdot 0$ |
|  | 5 | 1.5 | 4 | 16 | ． 41 | 0.00 |
|  | 1.1 | 6．0 | 11 | 7 | 9.41 | \＄．00 |
| wre． | 3.8 | 10 | 30 | 5 | 9.41 | 0.0 |
| WYC． 10 | ${ }^{76}$ | 23 | 71 | 3.5 | 3.70 | 8.25 |
|  |  | cr |  |  |  |  |
| nve－12 | 50 | 130 | $5(4)$ |  | 11.76 | ．$\infty$ |



## 15．3

LS LINEAR STANDARD TRANSFORMERS
Fulfill the mast criticol broodcost specifications．Each in guaronteed to meet or exceed the frequency response indi－ cated．All hove Hiperm－allay coros，olus multiple section inter－leaved windinas in a semitoroidal cail structure．Mini mum hum pickup is achieved by use of a high conductivity outer cose and hum bolancing coit structure．

## INTERSTAGE AUDIO TRANSFORMERS

 2 2－7／16＂．Screws 6－32．Cutout 11／9＂dio．Unit wi．， 3 lbs． （5）case．


pip．trids

$20.20 .000 \quad 27.6434 .49$


## OUTPUT TRANSFORMERS

$\pm 1 \mathrm{db} 7-50,000 \mathrm{cps}$ except $\$ 10-50.000$ for P．P．oulput ：ubes．LS－35 \＆LS－36 ore Hi－Fi typer；15－35：for clasi AB feedbacky $43 \%$ screen top； $15-63$ for Class $A B_{1}$ feedbech $40 \%$ screen top．All in 15.2 cose except in 15.3 cos Unit wi．． 7.5 Jbs
15－3 $5.13 / 16^{\circ} \times 5^{\prime \prime} \times 4.11 / 16^{\circ}$ ．Unil wh． 17 tbe

| UTC We． | $\begin{gathered} \text { Pri. Imes. } \\ \text { ohes } \end{gathered}$ | See．Imb． Omins | w | $\begin{gathered} 1-24 \\ E x . \end{gathered}$ | $\begin{aligned} & 25 \text { or } \\ & \text { wors } \\ & \text { Eag. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LS． 52 | 8.000 | （1．2．ะ．5． 5 | 20 | 23.52 | 20.09 |
| LS．5．5． | 5．010．3．000 | 7．5，10． 15 | 20 | 23.52 | 19.89 |
| L5．5801 | $2 .: 400,1,1004$ | 20．R11，in | （1） | 49.98 | 42.43 |
| LS．61． | $10.000 .6 .00 \%$ | 125． 290. | ：40 | 23.52 | 19.99 |
| LS－6L1＊ | 9.010 | 1343，：100 | ：0 | 35.21 | 29.93 |
| 15.54 | S．ent | 1． 1．$^{2}$ 2．5． 5 | $\geq 0$ | 17.64 | 14.5 |
| LS． 57 | 5，014M） 3.0000 | 7．5．10． 15 | $\pm 0$ | 17.64 | 14.91 |
| LS． 65 | 10.090 .8 .006 | 120．30 | 20 | 17.64 | 14．94 |
| $1.5 .35^{\circ}$ | 5.1000 | 4．8． 85 | 35 | 23.52 | 19．9\％ |
| 4S．65＊ | 3，300 | 1．8．I6 | 60 | 41.16 | 34.93 |

## MIXING TRANSFORMERS

For mixing low impedance mike pickup or multiple line to multiple lline．Max，unbolanced DC in pri．： 15.30 ． 5 mc 15－30x， 3 mo．Primory and secandary have 6 faps： 50 125．150，200，250．333， $500-600$ ohms in 15.1 cose．

S－30．Max．level +23 dbm ．Relative hum－pichup ne duction compared to uncased rype $-74 \mathrm{db}, \pm 1 \mathrm{db}$ 7． 50,000 cps
LS－30－25 or more EACH $18.75-1.24$ NeI EACH 22.05 S－30x．Mon level +20 dbm ．Multiple alloy shield gives relotive hum－pickup reduction of $-92 \mathrm{db}, \pm 1 \mathrm{db} 26$ $20,000 \mathrm{cps}$ ．
15－30x－25 or more EACH 17．49－1．24 Nel EACH 20.53

## HIGH－LEVEL MATCHNNG TRANSFORMED

LS－33 PR1．50，125，200，250，333， $500-600 \mathrm{ohms}$ ．Sec $1.2,5,7,5,10,15,20,30,50,125,200,250,333,500$ 600 ohms．Mox level 20．w．Respante $\pm 1 \mathrm{db}, 10.40,000$ cos．Encosed is－2，4．7／16＂$\times 31 / 2^{\prime \prime} \times 4-3 / 16^{\circ}$ ．Mig． 7.5 ibs．

15－33－25 or more EACH 17．49－1．24．NeI EACH 20.50
LOW IMPIOAMCE 70 GRID MATCNING TLANSFORME LS－10，IS－10X to single grid；others to P．P．grids Rolotive hum．picirup reduction compored to uncosed rype -72 db $t$ ercept－ 92 db ．Primory 50，125，200，250，333， 500 000 ohms．Tetol imp．bath sections．$\pm 1$ do 20－20，000 ．H．Wr．．， 3 h ib

| UTC Ne． | Sec，Olms | Man，Level | $\begin{aligned} & \mathrm{t}-24 \\ & \mathrm{Ea} . \end{aligned}$ | $\begin{array}{r} 25 \\ \text { mere Ea } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
| LS． 10 | 60.0 mm | ＋19 ditus | 20.58 | 17.49 |
| 15－10x | （20，MEN | +17 dhen | 20.58 | 17.49 |
| LS－12 | 120．0mu | +19 dlum | 24.70 | 20.99 |
| LS－12x | \％0，men | ＋ 17 dbm | 23.52 | 15.99 |

## PAATE－TO－LINE TRANSFORMERS

15－50，Single plate ia mutriple line，LS．51，for P．P．to level plates to multiple line．Sec．imp． $50.125 .150,200$ $250,333,500.600$ ohms． $\pm 1 \mathrm{db} 10-40,000 \mathrm{cDs}$ ．In $\mathbf{1 5}-1$



[^3]
## SPECIAL TRANSFORMERS FOR INDUSTRY \& HI-FI

## ACROSOUND HIGH-FIDELITY OUTPUT TRANSFORMERS <br> 

For use with Williamson rype amplifier circuits. Provides - much higher oudio output level at very low distortion. Con be used in converting mony popular amplifier circuits to Uliro lineor aperation.
Model TO-300. 20 watts of undistorted pawer fram 20 to 30.000 cpl; 40 wotts 30 to 20.000 cps. Primary 6800 ohms. Oulput 4, 8 ond 18 ahms. Frequency response $\pm 1 \mathrm{db}$ from 10 to 100,000 cps. Permissible leedbock: 30 db Maximum DC per primary: $75 \mathrm{mo} 10^{\prime \prime}$ colar. coded leods. Sizes $41 / 4 \times 3 \frac{1}{3} \times 31 / \mathrm{m}^{\mathrm{m}}$. Shpg. wh., 7 lbs. TO-300 Net 24.25 Model TO.3io. Similar to TO-300, but far 12 wol circuits. Primary 8000 ahms. Oulput 4,8 and 16 ohms. 10 wotts of undistarted power oupul fram 20 10 30,000 cps; 20 wolts 20 to 20,000 cps. Frequency responses $\pm 1 \mathrm{db}$. From 10 to 100,000 cps. Permissible feedbock: 30 db . Maximum $D C$ per primory: 75 ma . $10^{\prime \prime}$ color. coded leods. Size: $41 / 4=3 \frac{1}{4}=31 / 4 \%$. Shpg. Wi., 6 lbs . TO-3 10

Net 18.37 Model 10-305. Similar to $\mathbf{T O}-300$, but hos 4. 8, 16. 125 and 500 ohm outpul impedonces. Primory 6400 ahms. Motches push-pull type 616 or 5881 lubes for from 20 to $30,000 \mathrm{cps}$; 40 watts from 30 to $20,000 \mathrm{cps}$. $10^{\prime \prime}$ color-coded leods. Size: $41 / 4 \times 3 \% \times 31 /{ }^{\prime \prime}$. Shps. $w t$. 8 Ibs. TO-305 125 and 500 ohm output impe. but has 4. 8, 16 . ohms. Molches push-pull trpe 6 V 6 tubes. 10 wolls of undistorled power from 20 to 30,000 cps; 20 watts from 30 to 20,000 cps. Size $41 / 4 \times 31 / 4 \times 31 / 4 \%$. Shpg. wt., lbs. TO-315

Net 24.25
Model TO-330. Designed for high-power, push-pull porallel operation. Will provide 50 wotts of undistorted power from 20 to 30,000 cps with 807 or KT- 66 tubes; 100 wotts from 30 io 20,000 ohms. Primory 3300 ohms. Outpui 4, 8,10 ohms. Frequency response: $\pm 1 \mathrm{db} 10$ CPs to 100 kc . Permissible feedbock 30 db . Insertion lass all lops: 5 db moximum. DC per primory moximum: are $3 \times 3 \%$. Permissible $D C$ unbolonce: $515 \%$. Mtg. centers are $3 \times 3 \% "$. Size: $51 / 4 \times 4 \% /^{\prime \prime}$. $10^{\prime \prime}$ color-coded leads. Shpg. wt.. 15 lbs. TO. $330 \ldots . .$. Net 38.95


Supply occurote AC line volloges $( \pm 3 \%)$ to TV sets, to improve reception. Na wiring necessory! furns on ond off
with set. For $95-130 \mathrm{~V}$. 60 cycle. 5.00 down.


(FIG. 4)
SOLA HARMONIC-FREE TRANSFORMERS

For equipment which requires o stoble, undistorted voltoge source. Well suited for rectifier inpul where closely regulated DC output is required, or where equipment is of. fected by soupce hermonics. Harmonic content lest than $3 \%$ sine-wove outpul regulated within $1 \%$. For 60 cycle, 95-130 V. input

| Type. | cıA | 5EC. | $185 .$ | - | 3-0 | 10.24 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| -33.13.049 | ?11 | 115 | 15 | 30.00 | 37.00 |  |
| 23.13.112 | !201 | I1s | 33 | 38.00 | 34.20 | 32.30 |
| 23.13 .150 | Jives. | 11\% | 4 | S1.00 | 72.90 | 6. 20 |
| 23.13 .210 | ima | Iim | mel | 135.00 | 22.50 | 68 |

## SOLA FIXEO AND ADJUSTAELE CONSTANT-VOLTAGE

 POWER O.C. SUPPLIES ARE ALSO AVAILABLE FROM LAFAYETTE - WRITE FOR SPECS AND PRICES.
altec - lansing peerless ourput transformers Thase Push.Pull Audio output transformers ore designed for Irue fidelity with
o frequency respanse of 20 to $30,000 \mathrm{cps}$. $\pm 1 \mathrm{db}$. They ore made of the o frequency respanse of 20 to $30,000 \mathrm{cps}$. 11 db . They ore mode of the
finest moteriols ond come in o number of power rofings far voriaus desired finest moteriols and come in o number of power rolings far voriaus desired
oulpuls.
 3-526(F)

These Hign Level (20-20 plus) ouppup transfarmers hove excellent frequency responses with negligible insertion lasses. They are made af the finest moteriols ovoiloble and come in vorious power ratings.

| Sloek | Descriptive | Impedance in Ohms |  | finer. <br> Lewel | Dimensions |  |  | Wi. Lbs. | Net |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. | Data |  |  | H | D | W |  |  |
| S-217-0 | $51065000+1 \mathrm{db}$ <br> INSERTION LOSS 0.5 db <br> C. T. Tertiary 24.5 ohms | 12500 | $\begin{array}{r} 600 \\ 300 \end{array}$ |  | +2008M | 3\% | $11 / 2$ | 2 | $11 / 4$ | 37.63 |
| 5-232-0 | 10 to $100000 \pm 1 \mathrm{db}$ : INSERTION LOSS 0.6db | $\begin{aligned} & 6600 \mathrm{CT} \\ & 1650 \mathrm{CJ} \end{aligned}$ | $\begin{array}{r} 16,8 \\ 4,1 \end{array}$ | $\begin{aligned} & +4308 \mathrm{M} \\ & 20 \text { WATTS } \end{aligned}$ | 4 $1 / 6$ | 3 ${ }^{16}$ | 31/6 | 31/ | 25.87 |
| S-238. 0 | $101075000+1 \mathrm{db}$ : INSERTION LOSS O.Odb | $\begin{aligned} & 10000 \mathrm{CT} \\ & 2500 \mathrm{CT} \end{aligned}$ | 16,8 4.8 | $\begin{aligned} & 143 \text { DBM } \\ & 20 \text { WATTS } \end{aligned}$ | 4\% | $3{ }^{3 /}$ | 31/10 | $31 / 4$ | 25.87 |
| 5-258-0 | 10 to $100000 \pm 1 \mathrm{db}$ : INSERTION LOSS O. 4 db | $\begin{aligned} & 5000 \mathrm{CT} \\ & 1250 \mathrm{CT} \end{aligned}$ | 16.8 4.1 | $\begin{aligned} & +4608 \mathrm{M} \\ & 40 \text { WATTS } \end{aligned}$ | 4\% | 3\% | 3h | 61/3 | 35.28 |
| 5.271. 5 | 10 to $100000 \pm 1 \mathrm{db}$ : INSERTION IOSS 0.3 db | 5000 CT 1250 Ct | 16,8 4,1 | $\begin{aligned} & +49 \mathrm{DBM} \\ & 80 \text { WATTS } \end{aligned}$ | 6\% | 5\% | 51/2 | 18 | 52.9 |
| 5-273-5 | 10 to $80000+1 \mathrm{db}$ : INSERTION LOSS 0.3 db | $\begin{aligned} & 8000 \mathrm{CT} \\ & 2000 \mathrm{CT} \end{aligned}$ | 16,8 4,1 | $+49 \mathrm{DBM}$ 80 WATTS | 6\% | 5\% | 51/6 | $18$ | 52.92 |

## SOLA CONSTANT-VOLTAGE TRANSFORMERS

Trpe CV Trensformers. Automotic volfoge requlators. Provides constont outpul within $\pm 1 \%$ with line voltoge changes up to $\pm 15 \%$. Has current limiting characteristic. Contoins Pyronol ail-filled caporitor and mig brocket. - uses low stray-field design. For 60 cyele $A C$. input. 25 and 50 cps units available on special order. Abbrs: Input


(FIG. 2) SOLA POWER TRANSFORMERS
Stobilize plate ond floment volloges within $\pm 3 \%$, on tine variotions from $100-130$ volfs. With oil-filled input condenser ond mounting brocket. For $100-130$ y. 60 eycle AC only.

|  |  |  |  |  |  | NET |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TYPENO. | OC INP. TO PILTER | FILAMENTS | Wr. | S12E | 1.9 | 10-49 |
|  | 7104 | 275 - @ 50 mo |  | 6 lbs . | $\begin{aligned} & 4.13 / 16 \times 3.5 / 16^{11} \\ & \times 31 / \mathrm{m}^{2} \end{aligned}$ | 12.00 | 10.80 |
|  | 7106 | 385-@110 mo. | $6.3 \times \text { C.1.@ } 30$ | 9 Ibs. | $\begin{aligned} & 4-13 / 16 \times 4.1 / 16^{\prime \prime} \\ & \times 31 / 6^{\prime \prime} \\ & \hline \end{aligned}$ | 15.00 | 13.50 |
| 3 | 7107 | 380.0250 mo . | 6.3- @ 40.6.3v 80. (unreg.) 5 v @ 3o. | 19 lbs | $\begin{aligned} & x 5 x \\ & 41 / 2 \end{aligned}$ | 27.00 | 24.30 |



RAYTHEON 'VR' VOLTAGE REGULATORS
Automotic, mognetic $A C$ line spoblifizer, for opplicotions requiring constont output of 115 volts $\pm 1 / 2 \%$. Quick response corrects for input fuctuations of up to $15 \%$. Con be poralleled for power-hondling copocities greoter thon individual lood rotings. 60 cycle $A C_{\text {. }}$ Isoloted Sec-
ondory. tPortoble, with cord, plug 2 ind oufput receptacle.
 INDUSIRIALS - writo for prices on larger quantities.

# GENERAL RADIO VARIACS WITH EXCLUSIVE DURATRAK CONTACT SURFACE 

 THE ORIGINAL ADJUSTABLE AUTOTRANSFORMER FOR SMOOTH CONTROL OF AC VOLTAGES

Now Lofoyetie brings you the industry leader-GENERAL RADIO VARIAC-for Immediate delivery of factory prices. First in engineering design and monufocture, VARIAC advantoges include: banked winding for space economy, unit brush for ease of replocement, wiring diogrom and valtoge dato on terminal plates, precision mochine winding on toroidal winding machines and long life essentially the some os flyed-ratio pawer transformers. Other feolures ar good regulation, smaoth contral. high efficlency, linear output valtage (wp to $117 \%$ of line volt. age) direct-reoding, reversible diols calibreted for $320^{\circ}$ age) direct-rooding, reversible dials calibrated for $320^{\circ}$ clockwise rotation, rugged construction-no delicate parts,
Five basic types ilsted below provide a logical series of Five basic types listed below provide a logical series of
rotings up to 50 amperes of $50-60$ cycles. Other ratings, rotings up to 50 amperes of $50-60$ cycles. Other ratings, output volfoges, ganged and metered units ovoilable on
order. Uncosed models for behind-ponel mounting, cosed order. Uncosed models for behind-ponel mounting, cosed
models for frant-panel, woll or bench mounting; portable models have line cord, plug, an-aff switch, reseltoble averlaod protectar, autlel sacket and hondle.

TYPE W2. 4 models-up to 3.1 amps output at 115 v .


| $W_{2}$ | 1 | $31 / 1$ | 115 | 2.4 | 3.1 | 0.36 | 0.135 | 2.4 | 13.50 | 12.83 | 12.15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| W2M | 2 | $4 \%$ | 115 | 2.0 | 2.6 | 0.30 | 0.135 | 2.0 | 19.00 | 18.05 | 17.10 |
| 2-wire | 3 | 41/4 | 115 | 2.0 | 2.4 | 0.27 | 0.135 | 2.0 | 24.00 | 22.80 | 21.60 |
| 3-wire | 3 | 4\% | 115 | 2.0 | 2.4 | 0.27 | 0.135 | 2.0 | 26.00 | 24.70 | 23.40 |

TYPE W10. 8 models-up to 13 omps, output of 115 v . or 5.2 omps of 230 v


| W1o ${ }_{\text {W10m }}$ | $121 / 2$ | 115 | 10 | 13 | 1.5 | 0.135 | 10 | 131.00 | 29.45 | 27.90 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| W10M ${ }^{2}$ | 15 | 115 | 10 | 13 | 1.5 | 0.135 | 10 | 44.00 | 41.80 | 39.60 |
| Wiomt ${ }_{\text {W }}$ | 16 | 115 | 10 | 13 | 1.5 | 0.135 | 10 | 41.00 | 45.64 | 4.30 |
| W10MT3 |  |  |  |  |  |  | 10 | \$8.00 | 45.00 | 43.20 |
| 3 -wire ${ }^{3}$ | 16 | 115 | 10 | 13 | 1.5 | 0.135 | 10 | 51.00 | 48.45 | 45.90 |
| W104 1 | 12 | 230 | 4.0 | 5.2 | 1.2 | 0-270 | 4 | 33.00 | 31.35 | 29.70 |
|  |  | 115 | 2.0 |  |  |  | 2 |  |  |  |
| W1OHM ${ }^{2}$ | 14\% | 230 115 | 4.0 | 5.2 | 1.2 | 0-270 | 4 | 46.00 | 43.70 | 41.40 |
| W1OHMT |  |  |  |  |  |  |  |  |  |  |
| 2-wire \|3 | 15\% | 230 | 4.0 | 5.2 | 1.2 | 0.270 | 4 | 50.00 | 47.50 | 45.00 |
| Wionmis |  |  |  |  |  |  |  |  |  | +5.00 |
| 3-wire \| 3 | 151/2 | 230 | 4.0 | 5.2 | 1.2 | 0.270 | 4 | 53.00 | 50.35 | 47.70 |
| Regular models use VBT. 10 brushes @ 1.25 eo. ' H ' models use V8T.11 @ 1.25 ea . |  |  |  |  |  |  |  |  |  |  |

Regular models use VBT. 10 brushes @ 1.25 eo.
'H' models use V8T.11 @ 1.25 ea .

TYPE W50. 4 models-ud to 50 amps. output of $115 \%$ or 32.5 amps . of $230 \%$.


| W50 | 1 | 50 | 115 | 50 | 50 | 5.75 | 0.135 | 50 | 120.00 | 114.00 | 108.00 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| W50M | 2 | 57 | 115 | 40 | 45 | 5.18 | 0.135 | 40 | 145.00 | 137.75 | 130.50 |
| W50H | 1 | 53 | 230 | 25 | 32.5 | 7.5 | 0.270 | 25 | 120.00 | 114.00 | 108.00 |
| W50WM | 2 | 60 | 230 | 20 | 31 | 7.1 | 0.270 | 20 | 145.00 | 137.75 | 130.50 |

Regulor modeis use V8T. 6 brusher @ $5.50 / \mathrm{sel}$
" H ' models use VBT. 7 © $5.50 / \mathrm{set}$.

TYPE W5. 7 models-up to 7.8 omps. outpul of 115 V . or 2.6 omps. at 230 v .

Net

| Ws | 1 | 6\% | 115 | 6.0 | 7.8 | 0.90 | 0.135 | 6.0 | 17.00 | 16.15 | 15.30 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| W5M | 2 | 71/ | 115 | 5.0 | 6.5 | 0.75 | 0.135 | 5.0 | 22.50 | 21.38 | 20.25 |
| W5mi |  |  |  |  |  |  |  |  |  |  |  |
| 2-wire <br> W5MT3 | 3 | $8 \%$ | 115 | 5.0 | 6.0 | 0.70 | 0.135 | 5.0 | 27.50 | 26.13 | 24.75 |
| 1-wire | 3 | $81 /$ | 115 | 5.0 | 6.0 | 0.70 | 0.135 | 5.0 | 30.00 | 28.50 | 27.00 |
| W5H | 1 | 61/3 | 230 | 2.0 | 2.6 | 0.60 | 0.270 | 2.0 | 20.50 | 19.48 | 18.45 |
|  |  |  | 115 | 1.0 |  |  |  | 1.0 |  |  |  |
| WSHM | 2 | 71/4 | 230 115 | 2.0 1.0 | 2.6 | 0.60 | 0.270 | 2.0 | 26.00 | 24.70 | 23.40 |
| W5HMT |  |  | 115 | 1.0 |  |  |  | 1.0 |  |  |  |
| 2-wire | 3 | 8 | 230 | 2.0 | 2.4 | 0.55 | 0.270 | 2.0 | 31.00 | 29.45 | 27.90 | Regular models Use VB-2 brushes @ . 75 eo ' H ' models use VB-1 @. 75 ea .


| Trpe | fis. Lbs. input |  |  | Line Ourput hated ©. Mar. o |  |  | $\begin{aligned} & \text { Overvo } \\ & \text { o. } \mathrm{O} \end{aligned}$ |  | + 1 | $\begin{gathered} \text { Met } \\ 10-19 \end{gathered}$ | 20.99 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| W20 | , | 211/3 | 115 | 20 | 26 | 3.0 | 0.135 | 20 | 45.00 | 42.75 | 40.50 |
| W20M | 2 | 241/2 | 115 | 20 | 26 | 3.0 | 0.135 | 20 | 58.00 | 55.10 | 52.20 |
| W20mr3 |  |  |  | 20 |  |  | 0.135 | 10 | 58.00 | 53.10 | 52.20 |
| 3-wire | 3 | 28 | 115 |  | 26 | 3.0 | $0-135$ | 20 | 87.00 | 82.65 | 78.30 |
| W20w | 1 | 201/3 | 230 | 8.0 | 10.4 | 2.4 | $0-270$ | 8.0 | 47.00 | 44.65 | 42.30 |
|  |  |  | 115 | 4.0 |  |  |  | 4.0 |  | 44.65 | 42.30 |
| W20WM | 2 | 23 \% | 230 | 8.0 | 10.4 | 2.4 | 0.270 | 8.0 | 60.00 | 57.00 | 54.00 |
| 20+1MT3 |  |  | 115 | 4.0 |  |  |  | 4.0 |  |  |  |
| 3-wire | 3 | 27 | 230 | 8.0 | 10.4 | 2.4 | 0.270 | 8 | 85.00 | 80.75 | 76.50 | Reguler models use VBT- 8 brushes © $2.50 / \mathrm{sef}$.

"H' models use VBT. 12 @ $2.50 / \mathrm{set}$.

## 400 CYCLE VARIACS FOR POWER SUPPLIES IN AIRBORNE AND MARITIME EQUIPMENT

TYPE M-350-1200 CYCLE SERVICE. 4 models-high frequency equivolents of type 'W but much smoller ond lighter. Made to Milispecs for shock, vibrotlon, salt-sproy ond tropicolizotion Including: high and law iemperature lubricotion, iridite-treated aluminum parts, fungicidal treatment of oll phenalic parts, special nickel-ploted brush holder. Use same brushes as equivalent ' W ' madels.

| Trpe | Fig. | Lbr. | $\begin{aligned} & \text { Line } \\ & \text { Input (v.) Rat } \\ & \hline \end{aligned}$ |  | Output <br> a. MoE. |  | $\text { o. } 0$ | $R_{a}$ | $1.9$ | $10.19$ | 20.99 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M2 | 1 | 1\% | 115 | 2.4 | 3.1 | 0.34 | 0-135 | 2.4 | 14.50 | 13.7 \% | 13.05 |
| M5 | 1 | 3\% | 115 | 6.0 | 7.8 | 0.86 | 0.135 | 6.0 | 18.50 | 17.58 | 16.65 |
| 飪10 | 1 | 6\% | 115 | 10 | 13 | 1.5 | 0.135 | 10 | 30.00 | 28.50 | 27.00 |
| M20 | , | 13 | 115 | 20 | 26 | 3.0 | $0-135$ | 20 | 48.00 | 45.60 | 43.20 |

## NEW! METERED VARIACS VOLTAGE, CURRENT, POWER CAN BE MEASURED WITHOUT EXTERNAL METERS

TYPE WSMT3A VOLTMETER-AMMETER (fig. 4) Inpufi 115 \%. 50.60 evele; Outputa 0.135 v. 10.150 voltmeterl: Output Current: $0.1,0.5$ omps; Meter Accurocies: $\pm 3 \%$ of full scale, Switehing: Offi-ON, 2 -pole iwitch disconnects ossembly from both sides of line in Off pasitlon, and Meter RANGE, HIGH-LOW moke beforebreak tian, and Moter RANGE, HIGH-LOW moke before-breok cord and plug; lood-3-wire outlel receplacle (will occept cord and plug; lood-3-wire outlel receptacle (will accept

 $6 \%$ " D, ond handies $N$ Net Weight, $11 \%$ lbs. Assembly consists of W-5 VARIAC, 2 moters, current tronsformer,
switches ond odeauote meter shielding...........Net 85.00

TYPE WSMT3W VOLTMETER-WATTMETER (Fig. 4). $5 \mathrm{im} \cdot$ ilar to above, except Output Powars $0.150,0.750$ wottss Fusing: 2 amp., low range, 5 omp. high range.

Net 110.00

## BRIEF GENERAL SPECIFICATIONS

Frequency: Specs for ' $W$ ' models ore 50.60 cycle. Uniry can be aperoted at rated current and valtoge from 50 . 400 creles. On 25 cycles, 230 valt unifs can be used of half their 60 crele valtage ond tiva. ratings. Roted Current: Con be drown from the VARIAC of any dial cetting. Moximum Current: Con be drown of moximum voltoge when line valtage connection is used. Line Valtoge Connections output voltage voriable from 0 to line voltroge. Overvoltoge Connecllonz output voltoge varioble from 0 to $17 \%$ obove line voltoge. KVA Roting: moxi-

FOR OTHER GENERAL RADIO PRODUCTS, SEE LSTING ON PAGE 170


# INDUSTRIAL TRANSFORMERS • ELECTRIC EYE UNITS 

5

## NEW! LAFAYETTE AUTOMATIC <br> PHOTO-ELECTRIC "LAMPLIGHTER"

## - Automatic Light Switch

 Lights on of sunset-off of sunriseNew phota-electronic, light sensitive switch turns lights on and off at dusk and dawn. Setler thon a cloct-no willing and resetting of timer. Voriance in "on-eff" cycle adds house. The cantralled lomps go on as darkness falis-stay on until sufficient day light returns or until manually furned aff. Just plug it in for protection from prowiers-to turn on night lights-illuminate ouldoar areas-light up broaders-ereen houses-dis-plays-show windaws-any place you equire autamatic lllumination. Mounts mast anywhere on rubber suction cup feet. Unobtrusive-measurei only 4 I 2 h . 1 k . Uso an


## KUPFRIAN POWER SUPPLIES

## WORNER "FOTOELECTRIC" SYSTEMS



MODEL 61 ANNOUNCER. Consists of "Fotolectric" unit, chime ond mirror. Chime rings when light beam is intercepted. Unit has exclier lomp which prajects beam ocross possage, and photocell which receives reflected beom from mirrorg moy be placed up to $10^{\circ}$ from mirrar. $81 / 4^{\omega}=61 / 3^{\prime \prime} \times 21 / 4^{N}$. Shpg. wh., 8 lbs . For $110-120 \mathrm{~V} 50-60$ cyclo. A.c.

PC- 20
5.00 Down

Nep 35.28
60-1130 ©EPLACEMENT BUL8. $6 \mathrm{v}, 32 \mathrm{cp} ., 2000$ hour. For Madel 61. Shpg. wi., 5 oz. PC-21
CHIME. For Model 61, or any ather 6 Y. A.C. power saurce. Excellent warning device. Shpg. wl.. 2 lbs.
-C-22
Net 4.70


MODEL 4000 "WATCMMAN". Economicol indoor olorm syslom. Cansishs of exciter lomp unit and matching electranic relay, In attroctive hammerlaid cases. Exciter unit has 2 prefocused to lenses for maximum light dispersion, infra-red filter to furnish invisible beam. Retay unit hos logel swifch chaice of intermittent or centinuous alarm operation, outside light reiectar, sensitivity contral. Built-in oV.A.C. power supoly permits use of external electricol alarms. Ranges: white light $50^{\prime}$, Invisible light 35. Size each unft $5^{\prime \prime}=5^{\prime \prime} \times 51 / 2^{m}$. Totol shog. wt. . 14 lbs. For 110.120 V. 50.60 cyele A.C.
PC-23

Tronsistorised power supplles, to convert low voltoge D.C. to high voltage D.C. or A.C. Instont starting, rugged, quiet. No vacuum tubes or maving parts. Exceltemt voltage regulation and $0.4 \%$ mox. ripple over a temperature range of $-35^{\circ}$ to $+60^{\circ} \mathrm{C}$. Size $3 \% " * 41 /{ }^{\prime \prime} \times 21 / "^{\prime \prime}$ high; Avg. shpo. Wh., 2 Ibs. Attach to equipment by 4 ihreoded hales. A.C. madels also available with plug-in cord for auto cigarette lighters and 115 V . output canvenience receptocle. Specify plug-in mpe, and add 1.50 to price.

| KIt |  | WIRED |  |  | OUTPUT |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Stock Ne. | $\begin{aligned} & \text { Net } \\ & \text { Eoch } \end{aligned}$ | Stock No. | Net Each | Valis | Volts | Current | Power |
| ME-8.10 | 36.00 | HE-811 | 45.00 | 6.3 VDC | 300/150V06 | 165/330MA | 50W |
| HE-812 | 40.50 | ME-813 | 49.50 | 12.6 VDC | 300/150VDC | 330/400MA | 100W |
| HE-814 | 45.00 | HE. 815 | 54.00 | 12.6 VDC | 500/250VDC | 200/400MA | 100w |
| HE-816 | 70.50 | HE-817 | 79.50 | 24 VDC | 500/250VDC | 400mA | 200w |
| HE-818 | 78.00 | HE-819 | 87.00 | 28 VPC | 500/250VDC | 450MA | 225W |
| HE-820 | 36.00 | HE-821 | 45.00 | 12.6 VAC | 117 VAC | 60 Cycl. | 100w |
| HE-822 | 30.75 | HE-823 | 39.75 | 12.6 VAC | 117 VAC | 400 Cycl | 100W |

Avallable on easy-poyment plan, $10 \%$ down or min
INOUSTRIAL USERS: Write for quantity discounts.

## STANDARD ELECTRK "ADJUST-A-VOLT" VARIABLE TRANSFORMERS



100 w


300 EU



500 Bu

100 LU Far low power such as fube testers. power sup. plies, madel railraads efc. Mas speciol sliding brush and low.resistance allay-ploted brush troch-allow high Initial surge current and temporory overloads. Permits smooth contral of oulput voltage from 0 ro 132 volts. Maunts on panel up $10 \mathrm{Y}, \mathrm{A}^{\prime \prime}$ thick. Mox. Ioad 165 VA for 110.120 Volts for $110 / 120$ V. $50-60 \mathrm{cps}$. AC. Size $21 \frac{1}{1 / 4} \mathrm{dio}$. I $2^{3} / 32^{\prime \prime} \cdot 2^{\prime \prime}$ dial colibroted $0.100 \%$. Shpg. wi., 2 lbs. 100 eu
300 BU For light-control small avens speed peoulation 300 BU for lighr-conce, maters etc. Several moy b of brush canmected AC. maters, etc. Severol moy be gonged for aperation from a single shaft. Unit is sasily set and hos dial plate for C.W. or C.C.W. operation. Con be wired to deliver either 400 VA . Mos. current 3 amps . For operotion fram $110 / 120$ 400VA. Mas. Current 3 amps. For aperotian fram $110 / 120$ V. $50 / 60$ cpi AC. Size $3^{11} / 44^{* \prime}$ dio.
hind ponel. $4^{\prime \prime}$ diol. Shpg. wl., 6 lbs.
hind panel
300 EU
Net 12.25
500 - 500 There transformers were designed for lab. and industrial voltage control. Type 500 B is cased $6^{\prime / h^{\prime \prime}}$, 4\%" dia. Supplied with line cord, plug, receptocie, pilat light, on-oH switch and fuse. Type 500 BU is uncased for panal mounting supplies. With pital lioht. Adiustoble shoft length. Size $5^{\prime \prime} \times 4 \%^{\prime \prime}$ dio. far 115 V .60 cps AC input. Shpp. wf., of each 12 lbs.

15008 Siurdy dependable unit for 2 KVA pawer opplications. For large auditoriums or ony other heovy duty opplication. The roter and frome ore of die cast aluminum. Several units moy be gonged to the some shaft. Can be used in series or parallel. Valtoge oulput range 0.135 V . @ 15A. Input $115 \mathrm{~V} .60 \mathrm{cps} A C, 30.60 \mathrm{oz}$. drive torque.

Note: We carry complete Standord Electric line. Write for quatations giving full defalis about your requirements.

## TECHNITROL PULSE TRANSFORMERS

A series of Transformers providing o wide range af appli cotions. All Mronsformers listed ore of MIL GRADE, on copsulated in material withstonding lemperotures from prodes 2, 3, 5 Closs R. The pigtail leods used are a speciol phosphop-brenze olloy providing extrem resistance to breating under bending, iwisting ond vibration. The cup core construction of lerrite tronsformers provides the user with thes maior advantages. Minimum inductance leahage and reduced eflect of temperature changes an the indue tonce of the transtormer windinge.

## SERIES T

For blacklig oscillator ond inferatage coupling applica. tians. All in eposy resin cases. Pulse Duration...0.1 to 25 U Sec. Pulm Repetition rate... up to 10 MC . Pulie Enerey . . 6 Welt- U Sec. Voltege rating between Wind ings... 500 Vims. Size $19 / 32 \times 11 / 16$. Shpg. wl., 3 os

| Mort | $\begin{aligned} & \text { Primary: } \\ & \text { innucesnce } \\ & 40 \end{aligned}$ | Turne | $\begin{aligned} & \text { Parte } \\ & \text { Mo. } \end{aligned}$ |  | $\begin{aligned} & 7 \text { urns } \\ & \text { nasilo } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ciwa | 22 | 12111 | 0107 | 1.6 | 11:1 |
| csway | 22 | silil 3815 | Osga | 1.0 | 5:5:1 |
| - ${ }^{\text {c iswa }}$ | 22 | 31511 | -3qa | 1.0 | 3:1:1 |
| -13wn | 22 | 32311 | OIJ9a | 1.0 | 3:311 |
| biwn | 10 | 1:121 | 9i9a | 0.47 | 1:1:1 |
| -swa | 10 | 317! | gram | 0.17 | s:1:1 |
| - $15 w^{*}$ | 10 | $5: 511$ $3: 181$ | gisga | 0. 11.47 | S:5:1 |
| -3wa | 10 | 3:3:1 | 9130a | 11.47 | 3:3:1 |
| nima | 8.7 | 18111 | Uiga | 6.1 | 1:1:1 |
| kewa | 4.7 | 3:1:1 | Usqa |  | $5: 131$ |
| K1swa | 8.7 |  | Usigan | 0.1 | 5:5:3 |
| K3WA | 4.7 | 3:1:1 | U39a | 0.1 | 3:5:1 |

10.24 pach e.30
NON.ASSORTED


## SERIES M

Far sub-miniature and tronsistar applicationse
Pulse Width 0.05 U Sec. to 5.0 U Sec .

Pulse Repetition rate
Total Pulse Energy
UD to 500 KC
Total Pulse Energy
3.5 Woth- U Sec

Size 19/32.369. Shpg. wf., I or.

> TYPE AME (ALUMINUM CASES)


Trpe MP

Primary inductance 1.7 ; XVAm $58 \mathrm{mh}, 8$ gam 15 mh . AVAM 3.8 mh , NVAM 1.25 mh and RVAM 0.33 mh . oll $\pm 20 \%$.

(EPOXY RESINS CASES)


# MFAVEIIE leads the fielo in TR;jiSISTORIS circuits - kits \& components 

il

# NEW ARGONNE HI-FI TRANSISTOR TRANSFORMERS 

- designed for wide range transistor AUDIO AMPLIFIERS.


## - 2D-2D,000 CPS $\pm$ D. 25 DB

Completely encosed tronsformers specifically designed for use in tronsistorized, wide ronge, high fidelity oudio amplifiers. Both driver and output have ofrequency response of 20 to $20,000 \mathrm{cps} \pm 0.25 \mathrm{dt}$ when used in properiy designed circuits. At full power


## DRIVER TRANSFORMER

Primary Impedance 5000 ahms, 3000 ohm eenter topped secondary. DC resistance of primary 50 ohms, of secondory 75 ahms. Unbalonced arimory surrent 20 ma DC AR-500

Net 5.75

## OUTPUT TRANSFORMER

Primair Impedonce. 125 ohms sentor lopped. Secandary impedance. 8 ohms. DC resistance of primary is 4 ohms, of secondary. 0.8 ohms. Unbalonced primary current so ma DC

Net 5.75


## NEW POWER

TRANSISTOR AUDIO TRANSFORMERS

## - DESIGNED FOR HIGH OUTPUT TRANSISTORS

- USED IN AUTO RADIOS - PA SYSTEMS INTERCOMS - ETC. OUTPUT TRANSFORMER
Rated 6 watts. Frequency response 70 to 20,000 cycles $\pm 2 \mathrm{db}$. Primary impedance, 48 ahms center lopped. Secondary, 3.2 ohms. Primary DC resistonce 1.1 ohms , second. ary 0.3 ohms. Unbolanced primory current 500 ma DC. Size $1.9 / 16^{\circ} \times 1 \% / s^{\prime \prime} \times 1.9 / 16^{\prime \prime}$. Shpg. wi., I lb.
AR-503


## INPUT TRANSFORMER

Roted 2 wotts. Frequency response 70 ta 20,000 cps $\pm 2 \mathrm{db}$. Primary impedonce 100 ohms. Secondory impedance 200 ohms CT. Primory $D C$ resistance 1.8 ohms, secondary 2.7 ohms. Unbalanced primory current, 200 moDC . Size $1.9 / 16^{\prime \prime} \times 1 \%^{\prime \prime} \times 1.9 / 16^{\prime \prime}$. Shpg. wl., 1 lb.
AR-S04

## NEWI UNIVERSAL POWER TRANSISTOR OUTPUT TRANSFORMER - DESIGNED FOR THE EXPERIMENTER <br> - PRI. TAPPED AT 8-12-16-24-32 AND 48 OHMS <br> - RATED ID WATTS



Lofeyetre's lalest transistor circuit component. Engineered for construction projects using the increasingly populor power transistors. Will also serve os a general replocement for many transistarized outa radios. Roted of 10 watts for push.pull aperation. Primary topped at $8,12,16,24,32$ and 48 ohms. Secondary topped of 4,8 and 16 ahms. Slies 3.1/10" $\times 21 / 4^{\circ \prime} \times 2-9 / 16^{\prime \prime}$. Shag. wt. 3 Ibs. TR.94

Nel 3.75

## TRANSISTOR OUTPUT TRANSFORMER



- TRULY MINIATUREONLY $3 / 4^{\prime \prime} \times 5 / 8^{\prime \prime} \times 5 / 8^{\prime}$
- MATCHES ANY 3.2 OHM SPEAKER
- EXCELLENT FOR RECEIVER REPLACEMENT Here is on autstonding volue In the mast populor tronsistor oulput tronsformer for 3.2 ohm spookers -and on exoct replocemont for all commerciol receivers using such o transformer. May be used - tither single ended or push-pull. Wound on nylon bobbins with mylor outer wrop with lominotions on nickel-stcol and silicone-steel. Roted power is 100 milliwatls, Primary impodonce is 500 ahms Center-lopped and iecondary 3.2 ohms. OC re. sistance of primary is 20 ohms and secondory . 3 ohms. Ideal for transistorized recelvers, oudio omplifiers, Code proctice oscillotors, elc. Color coded teods. Net wh., $11 / 4$ or. Shpg. w1., 4 or. TR-95-IRANSISTOR OUTPUT TRANSFORMER

TRANSISTOR DRIVER TRANSFORMER Single-sinded tronsformer for driving Ironsistop
power stage. Impedances 10,000 ohm pri., 2000 ohm sec.; de res. 500 ohms pri., 50 ohms sec. 1.5 mo . de unbalanced pri. current. Roted 100 $\mathrm{mw} .1 / 4^{* \prime} y / \%^{\prime \prime} 3 / \%^{*}$. Shipg. wi., 4 oz .


## NEW! MICRO-MINIATURE

 TRANSISTOR J.F.S- 455 K.C. I.f. Tronsformers
- $3 / 8$ th inch square 9/16ths inch hight
- Matching Shielded Oscillatar Cail!

Newent - smallest - I.F.s avallable for transistor circultry. Ferrite core - slug tuned - and only ${ }^{2}$ square by $9 / 16^{\circ}$ hikh. engineered especially for transistor recelvers. Impedances are perfectly matched. Includes diagram and
instructions. Wt.. 6 ozs. Ms. 340 1st and 2nd L.F. pri. 25,000 ohms sec. 600 ohms ms-341 3rd I.F. prl., 25,000 ohms, sec. 1000 ohms.

Net .95
OScillator coll: Mratching, shielded oscillator coil. For use with argonne Poly Vari-Con Smaliest shiflded oscilator avallable for 45 . KC I.F. circuits. Wi.。 4 ons. M5-342


## TRANSISTOR OUTPUT TRANSFORMER

Only $x^{\prime \prime} \times{ }^{\prime \prime \prime} \times 1-1 / 16^{\prime \prime} .2000$ ohm primary to 10 ohm voice coll. Matches most transistor outputs. Shpg. wt. 8 07.s. TR-93

## NEW! TRANSISTOR OUTPUT TRANSFORMERS

Here is an outstanding volue in the most populor transistar output Iransformer for 10 ta 11 ahm speakers, Roled power is 150 milliwalts. Primary impedance is 400 ohms, center-tapped and secandary 11 ohms. DC resistance of primary is 20 ohms and secondary .9 ohms. Nel wh.. 11/4 ors. Shpg. wt., 4 ors
TR-109
Not 89.

## TRANSISTOR DRIVER TRANSFORMER

Primory impedance 20,000 ohms. Secondary impeddnce 1000 ohms. DC resistance of primory 400 ohms , of secondary 50 ohms . Unbalonced primary current 1 ma DC. Roted 100 mw . Shps. w1., 4 ors.

TR-110
Ne1 89

## MINIATURE VOLUME CONTROL



QUANTITY LIMITED
Only $3 / 0^{\sim}$ Dinmeter, overall depth approzlOnly $3 / "^{"}$ Dinmeter, overail depth approzi-
mately. Including thrended shaft. Ideal
 VC-18-Renge 0.500 .000 audio isper.. 3\%c VC-1s-Rance 0 to 1 Meg. IInesp teper 34 c VC-20-Rineo 0 to 3 Meg audio taper 34c
1/4" DIAMETER In Low of $10-3.25$

## MINIATURE SWITCH


Has 4 positions including OFF. Self con rained whel knob. $1 / 4^{N}$ diom. $\times 1 / 2^{\prime \prime}$ deep. Quantily limited. Shpg . wl., 4 ozs.
SP-88-10 for 3.25
Singly, . 35

## TRANSISTOR

BATTERY
HOLDERS
Thebe Battery Holders were espectaliy designed for use In tranhese batters hoiders were espechaiy designed for use iluminum dllos, sturdy ronstruction with insulated, nickel plated Brass eye. letts. All multipte holders thoumt batteries side by fide except tems mathed "thount end to end. Av. shog, wi.. 3 axs.

| STOCK | NO. OESCRIPTION | MET | STOCK | 10. DESCRIPTION | NEI |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MS-137 | For 1 \# 7. V'SO74 or 912 | . 20 | MS. 178 | For | 37 |
| MS. 138 | For 2 of the abore | . 37 | ms-183 | For 1 = U20, 113, V8085, |  |
| MS.169 | For 3 of the abure | . 44 |  | or RM113 R | 28 |
| MS. 170 | For of the siore | . 57 | MS. 184 | For 2 of the abore | 37 |
| M S-139 | F'or 1 Ez, IS034, 113, <319. |  | M S. 225 | For 1 Y10 of 504 | 20 |
|  | KMu02R, HM 12 R | . 29 | MS-383 | For 2 of the abore | . 37 |
| MS.181 | For 2 of the above | . 37 | M S. 384 | For 1120 or 506 | 28 |
| MS. $380^{\circ}$ | For $2 \%$ of the above | . 44 | MS.385 | For 1 K10 or 417 | . 28 |
| MS-171 | For 3 of the strore | . 44 | M S. 386 | For 1 K15 or 420 | . 28 |
| MS. 182 | For 4 of the above | .57 | M S.387 | For 1 U10, V8083. 411 |  |
| NS.173 | For 1, सi Fso33. TR23 $E 233$ of 935 | . 24 | MS.382 | or RM411R For 1 RM401R | 28 .20 |
| MS. 174 | For 2 of the abore | . 37 |  | or E 401 |  |
| MS.3810 | For 2 of the above | . 44 | MS. 389 | For 2 of the abore | . 37 |
| MS. 175 | For $1=2$. D. Zt, 950 or RMI 2 R | . 24 | MS. 390 | For 3 of the abore. | 4 |
| MS.176 | For 2 of the abore | . 37 | MS.391 | For 1 RM1R or El | . 28 |
| MS.3820 | For 2 of the stove | 4 | MS. 392 | For 1 RM3R or E3 | . 28 |
| MS-177 | For 1 U15 or Fsory | . 24 | WS. 393 | For 1 RM4R or E4 | . 28 |

Naw! TRANSISTOR AUDIO TRANSFORMERS

ONLY
79\$


- Input, Output and Driver Transformers
- Only $1 / 2^{\prime \prime} \times 1 / 2^{\prime \prime} \times 1 / 2^{\prime \prime}$

A new series of miniature transformers for transistor and experimental miniature circults. Ideal for miniature radio recelvers, ampliflers, hearing aids, etc., using standard transistors. Incorporate special heat-treated high permeability magnetic cores and treated to resist corrosion. Designed for improved frequency response with low distortion. $3^{\prime \prime}$ color-coded leads. Average shpg. wt., 402 .
TR. 97 INPUT TAANSFORMER-Primary impedance 100,000 ohms; secondary 1000 . ohms; DC resistance primary 1000 ohms; secondary 100 ohms ........................................................... 79 TR-98 ORIVER TRANSFORMER-Primary impedance 10,000 ohms; secondary 2000 ohms, center-tapped. DC resistance of primary 240 ohms; secondary 60 ohms, center-tapped ...............Net . 79 TR. 99 OUTPUT TRANSFORMER-Primary Impedance 500 ohms center-tapped; secondary 3.2 ohms. Primary $D C$ resistance 42 ohms, center-tapped; secondary 0.7 ohms .......................Net . 79

## NEW! REVOLUTIONARY DESIGN

## 2-GANG SUPER-HET VARIABLE CONDENSER--ARGONNE "POLY-VARI-CON"



## NEW! COMPLETE TRANSISTOR BROADCAST

 RECEIVER COIL KIT- MINIATURE 2-GANG POLY-VARI-CON TUNING CONDENSER - 3-455KC IF'S OSCILLATOR FERRITE LOOP ANTENNA


## - MATCHED MICRO-MINIATURE COILS

A complete set of natched micro-miniature coils for use in subminiature transistorized radio receiver circuits. Shielded IF and Oscillator coils measure only $7 / 16^{\prime \prime}$ high above chassis and are $3 / /^{\prime \prime}$ in diamete ${ }^{-!}$ Correct inspedances are provided for maximum gain in transistor cicuits; high " $Q$ " coil design and impregnation for maximum stabiliy make these units hard to beat at any price!
The ossillator coll has an inductanse of $261 \mu \mathrm{~h}$, variable $\pm 20 \%$ by means of o funing slug. The 1 Ist If coil lo lonverter outpul) primary impedance 15,000 ohms; secondary 350 ohms; senter hequency 455 KC . The 2 nd if finterstagel ite secandary 5,000 ohms. The ferrite loap ontenna is fat type, $21 / 4^{"}$ lang is $9 / 16 \% \mathrm{~N}$ x $1 / 4$ " thick. Includes fomous Poly-Vari-Con 2 -gang funing candenser. Shpg. we. of kit la 1 lb .
MS-450
Net 3.95
SUBMINIATURE TRANSISTOR RECEIVER COIL KIT
Insludes some set of high " $\mathbf{Q}$ " minloture components os MS-450 exsept for the tuning sandenser
ms -4aO same as above, less luning capositor
Net 2.49

1010365 mml . Tunes through $180^{\circ} 36^{\prime \prime} * 1.1 / 16^{\prime \prime}$ $1.1 / 16^{\prime \prime}$
$\mathrm{MS}-274^{\circ}$

Net 1.28

## MATCHED TRANSISTOR 455 KC I.F.'S

*FERRITE CORE-SLUG TUNED *ONLY $1 / 2$ " SQ. $9 / 16$ H Products of the letest engineering reseorch, these 455 KC tran. primory to secondary turns and of copocity to inductance for perfect impedance molching, Exocting reseorch has praven that 2 motching lst and 2nd I.F. , having a orimory impedance of $25,000 \mathrm{ohms}$ and a secondary impedance of 000 ahms with a
3 d d $\mathrm{f} . \mathrm{F}$. having o primory impedance of $25,000 \mathrm{hms}$ ond a secondary impedance af 1,000 ahms gives vaslly imp:oved results in tronsistor superhet circuits. ofoyette is first to make these specially matched transistor 455 KC I.E. Hansformers available to youl Shpg. Wh., 4 ars. m $5-268 \mathrm{AA}$ ist and 2nd I.F. primary impedance 25,000 ahms, se

primary impedance 25,000 ahms, be

## "POLY-VARI-CON" MOUNTING BRACKET

Designed especiolly for horizantal mounting of "Poly-Vori-Con" tuning coindensers MS-270 and MS-274. Hos two holes on fop for mounting condenser ond fwo holes in "L" shaped lip for mounting brockel. Size: $1 \cdot 1 / 8^{\prime \prime} \mathrm{k}$ $1.1 / 16^{\prime \prime} \times 3 / 4^{\prime \prime}$. Shpg. wh.. 4 ozs.
MS. 310
Net 29 C
 MS-269A 3rd I.F.


## NEWI ATTRACTIVE TUNING

 DIAL FOR MINIATURE "POLY-VARI-CON' CONDENSERS 11/2" DIAM.Give your Transistor Receiver that prafessional appeoronce by dressing it up with this very oftractive broadcost tuning dial. Specifically designed for use with the fomous Transistar "Poly-Vari-Con" tuning condenser. $11 / 2^{"}$ diam. plastlc dial neatly designed in ivory bockgraund with gold digits and trim or maraon background with silver digits and trim. Mounted on condenser shaft by a rich-looking. chrome-plated $5 / 8^{\prime \prime}$ diom. threaded retainer, centrolly placed. You to your receiver! Knurled far easy octivation. Shpo. w1., 4 ors. KN-24-IVORY AND GOLD..................Net 45e KN-25-MAROON AND SILVER............Net 45 e

## TRANSISTOR MINIATURE 2 GANG SUPER-HET VARIABLE CONDENSER

ONIY $15 / 16^{\prime \prime} \times 13 / 9^{" \times 1.5 / 16}$
All the new minioturized tranfistar operated sets such os $\mathbf{G E}$ Regencr. efc., ore using this truly miniature 2 gang varioble Lightweight - both the frame and plates are aluminum. 5 moott insutation. Copocity of 11 plate R.F. section is 6.3 to 123.1 mmfd ; 9 plote ascillatar section is 5.7 to 78.2 mml . Efloctive range of trimmers 15 mmf . These add 2 mmf to minimum copocity. Copacity increases in counter clockwise direction. Fiottec shaft, $1 / 4^{\prime \prime}$ diometer by $11 / 4_{4}$ " lang.
Frame sire anly $15 / 16^{\circ} \mathrm{D}$ : $1 \%^{\prime \prime} W \times 1.15 / 10^{\prime \prime} \mathrm{M}$. Shpo. wt. ms.261

TRANSISTOR LOOP ANTENNA AND OSC. COIL $\square \mathrm{ms} .264$ A loop ontenno with o primory inductonce of 700 micrahenry, aspecially dostgned with the proper top to moich the input impedance required in transistar circuits. Covers the entire broadcost bond from 540.1650 KC when used with lotest miniature type voriable can. densers such as used in G.E. Regencr and ather subminialive sels. flofayelle MS-261 is ideol.I Requires maximum capocity af 123 mmi in RF section of variable candenser. Wound on high efficiency Iran
 MS-204 Net 95 MS. 265 Motching Orill In lats of 6. Each 89 MS. 264 Motching Oet Oscilllatar Cait

In lops of 6 . Each 69 e Singly. Eoch 790
low of 6 . Eoch 69 e Singir. Eoch 796



NEW!
SMALLEST TUNING CONDENSER -with DIAL

- 365 MMF .
- POLYETHYLENE DIELECTRIC
- ONLY 1" SQUARE, 7/16" OEEP
- FOR TRANSISTOR \& MINIATURE CIRCUITS

LAFAYETTE
SPECIAL
594
A new "Poly-Vari-Con" model for use in TRF broadcast band and experimental recelvers. Complete with good-looking clear plastic tuning dial with calibrations from 530 to 1600 KC . Capacity variable from 10 to 365 mmf . Knurled dial is $11 / /^{\prime \prime}$ diam.; rotation is $180^{\circ}{ }^{\circ}$. Dial is mounted to condenser shaf
threaded retaliner. Shpg. wt., 5 oz . MS-445

Net .59

Size $23 / \mathbf{B}^{\prime \prime} \mathrm{L} \times 3 / 4^{\prime \prime} \mathrm{W} \times 3 / 16^{\prime \prime}$ Thick
Flat forrite Toppod Antenno Coil, for wonsistor circuits. Small in sise for minioture sels, Freauency onge 540 to
1650 KC when used with 211 uut funing condenser, such ois the Polr.Vori-Con MS-270. Inductance 397 uh
Ms 329 Sh89. FOR AR USE WITH
365 uUf VARIABLE CONDENSER




都

## HIGH-GAIN LOOPSTICK ANTENNAS


fersite core ontennos. Give high goin ocrass camplete beoadcast bond from 540 to 1600 KC when tuned with standord 365 mmf tuning condenser, Ideal os reploce. ments for bulky. old-foshioned loop ontennos on bock of AM broadcost receivers. Give sen. lifive reception from all difoc lons-you don't have to ro: sfations.
A. VARI-LOOPSTICK. A revolutionary antenno development. An extremely smoll yel very powerful re sensitivity ond signol to nolso rolio contiderobly in portoble receivers. With adiustoble ferrite core for maximum peoklng efficiency and precise tracking on entive broodcost band. Single hale snap-in mounting, plus mounting bracket. Equally
$7 / 16 "$. Shps. wt. $40 z$
Ms-1i
In lats of 10. Eoch 304
Singly, Eoch 39f
8. ENERGIZED FEDRI-LOOPSTICK. New $5^{\prime \prime}$ ferrito red loopilick ontenno with " $Q$ " of up to 350. Extromely high goin brings in even distont stations not normally
received. New type adiustable cail with self-locking vinyl collar permits peaking ontenno for super sensitive
 C. $7^{*}$ SUPER LOOP. Super sensilive ferrife loopstick antenno with o " $Q$ " of up to 425. Excellent for replocement of old style loops. Brings in oven hord fo pet
stations with incomparable easo. Adiustable for mast. stations with incomparable easo. Adiustable for maxit. mum sensitivity over length of 7 in . Complete with
mount. Shpe. wh., 6 oz .
Ms-4

## TRANSISTOR

 TAPPED VARIABLE ANTENNA COIL- boosts signal pickup - SUPER-SELECTIVEI

Transistor-wise Latayetto leods again with this now miniature tapped Voriable Antenno Coll. Speciolly de sligned for motching the low input impedence of tronsistors. Results in monimum transfer of slgnal energy from luning stoge when used with 365 to $470 \mu \mu$ varioble copecilors, os well as in minimum looding by first tron. sistor stoge lar shorper funing and graater selectivity. Also improves selectivity and performonce when used mulliple tuned RF stoges. Highly sensitive wllh o " Q " of up to 250 . With adlustable ferrite care for moximum peoking. Single-hole snop-in maunfing, plus mount-
ing brocket. Efficient at atl ongles. Size: $2^{\prime \prime} \times 3 / 8^{\prime \prime}$ ing brocket. Efficient
diom. Shng. wh. 4 or
MS-299
Net 59c


For Transistor and Sub-Miniafure Circuits Vorsatile corbon controls for oudio, tone and simflo opplicotions; specially designed 'or tronsistor ond long $1 / 6^{-}$diamater. Shott eosily suit to desired length, includes nut ond lock washor. Shpe. wf. 2 oz
without switeh
 VC. 3410,000 ohm; VC-37 $1 / 2 \mathrm{Me9}$ VC. 35 15,000 ahms VC.38 MS-185-Miniafure Knob

WITM S.P.S.T. SWITCH
These Versatile Sub-Miniature Canirols with S.P.S.T witch ratings 1 amp of 20 Valts, $1 / 4$ amp at $67 \%$ volte. Contral wos erpecialliv dasioned for Transisto and Sub-Miniature opplications; Bushing $1 / 4^{\text {" }}$ diam eter and $1 / k^{\prime \prime}$ long, includes nur and lock washe Only $1 / 4$ " diameter $33 / 64^{-1}$ deep, shaft $3^{3 \prime \prime}$ diamate long. Shaft can be cut to dosired leng
 VC-28 10,000 ohm VC-29 $15,000 \mathrm{ohm}$

NEW! TRANSISTOR 5000 OHM POT WITH SWITCH, SLOTTED SHAFT
AND KNURLED FLAT
Now 5,000 ohm, $3 / \%^{\prime \prime}$ diom
 with ON-OFF wifich. Ideo for transintor
hnurled plostic diol elched hnurled plostic diol etche with "Off" press fitted in

 VC.48 ${ }^{2}$ Complere with KN TRANSISTOR ON-OFF VOLUME CONTROL OIAL Neat flot tronsparent dial solor enched with "Off". Fifs $1 / 8^{n}$ diam, volume control slatled shafts. Knurled periph.
 $1 / 8^{\prime \prime}$ mick. Con eosily tit VC. 26 thru VC. 35 it siot is made in shoft
$\mathrm{KN}-23$

## TRANSISTOR FLAT FERRITE TAPPED DNNM <br> - HIGH "O". FOR MAXIMUM PICKUP

 Lotest super-sensilive Tronsistor Flot Ferrite Topped An tonno Coils. Specifically designed to motch the low input impodonse of transistor RF stoges for maximum sensifivity and selectivity. Fixed inductence loaps with lorge ferrife orea for increased signol pickup ond a "Q" of up to 350. FOR USE WITH $208 \mu \mu$ F CAPACITORS SUCHAS "POLY-VARI-CON" MS-270
Molched with the world's amollest transistor sewerhet vo oble sapocitor $\mathrm{MS}-270$ for excollont broodcast sensitivily
ond solectivity. $397 \mu \mathrm{H}$ inductonce. MS-307... $\qquad$ WITH 123 $\mu \mu$ FAPACITORS
SUCH AS MS-261
Matchod with MS.261, the populor tronsisib
superhet vo oble copacitar used in sets such as G.E., Regency, $760 \mu \mathrm{H}$ inductanco.
MS-308...........................................................Not S
FOR USE WITH 365 H $\mu$ F CAPACITORS SUCH AS MS-142
For use will 365 mmfd . Vorioble Condensers,
MS.142, MS-274 ond MS-44. Inductonce 230 uh
MS. 309.

SERVICEMAN SPECIAL REPLACEMENT FOR JAPANESE 6 TRANSISTOR RADIOS

FIG. A IF TRANSFORMERS-Speciolly construcied for oatro - Ficient performance in Jomonese 6 monsistor printed cir cuit superheterodyne radios. Adiustoble core cosiny occes minots Shoo. Size: 3 ozs.

```
MS. 764 ist If Transformer
Not .59
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MS.751 2nd If Tronsformer
Not . 59
MS.7S2 3rd If Tronsformer
Net. 59
FIG. S OSCILAATOR COIt-Excellent for above transform. ers as well os for most lopanese Superhet receivers. 3 OR
$\mathrm{MS.7S3}$

Net .59
FIG. C ANTENNA COIL-Highly efficion ferrite ontenno coil for loponese superhet rectivers, 437 microhenries, $Q$ is 200 of 1000 kc. $2 \% /^{\prime \prime} \times 1 / 2^{\prime \prime} \times 3 / 16^{\prime \prime}$. Shpg. wh. 4 o8s

## NEW 7" TRANSISTOR



A newly developed unit that is sure to be footured in mony construc
Pravides superior goin for 5 and 6 tronsistor superhets where space is nat of a premium. Properly topped to morch input impedonce of transistor circuits. Covers ele copositor RF bection horing copocitance of 63 to 123.1 mml such os lofayette MS .261 ond lofe MS.265 oscillator coil, to motch 5.710 .78 .2 mmf ascll. MS.265 oscillator coil, ${ }^{10}$ motch 5.7 10 78.2 mmf oscil windings on high efficiency ferrite core, $7^{\prime \prime}$ lang $x^{\prime \prime}$ diom. Shpg. wh., 6 az. MS-358.

Net 1.10

## POWER/ISOLATION TRANSFORMER



- IDEAL FOR AMPLIFIERS, INTERCOMS AND RECEIVERS
12 PAGE BOOKLET DESCRIBING USES
- ac line cord and plug in PRIMARY
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Here is a versatile power tronsformer that is ideal for en perimenters. hobbyisls and constructors. Primory 117 valts ond secondary 105 volts no.lood- 82 volis with 150 ma hament load. literally hundreds af uses for this versotile grams for using this fronsformer in circuits for broostast recelver phano oscillator, oudia omplifier broadcost sto tion, code practice oscillo'or, copacity operated relay, sig. nol ipacer, electronic limer, electronic switch and photacell reloy. Minimizes the donger of shock by isoloting circuits tram the power line. An erceptionol volue of this price. Size: $21_{4} \times 2^{\prime \prime}=11 / 2^{\prime \prime}$. Shpg. wi.. 3 lbs.
TR-OI-TRANSFORMER

##  <br> VARIABLE CONDENSERS <br> MDCET 2 GAMG SUPER <br> 2 of 10.5 mmf to ection 27 plintes with capacity wih capocty of 7.8 mm ; to 132 mmi In. dividual trimmere on eack eection. Knd glates rotation. Capacity increnapen counter elock. 1 RO ro/n diam. brana ghate mounied on bell bear: Inge, exteede $11 / 2$ " from cadmium plated ateel  rear. Braee eontmet wlper, For auperthet cirevits <br>  <br> TUNING DIAL AND KNOB <br> Attractive dark maroon plantic pushoon knob with Aold insert culibrated for 2/4 Mhnult much as MS141. MS-142, MS-214, and MS-261. Fruted, tapered rim $18 / \mathrm{s}^{"}$ dia. Sack pro. trudes $3 / 16^{\prime \prime}$. Shpg. wt. +02 . Krudes 26



## 2 OANO TRF

Same construction above bur enct rang hat 23 plates. Maximum capacity tach sertion 365.7
maf. minimum $10,3 \mathrm{~mm}$. Prame aite $2-3 / 167$


MDCET 1 GANG TRF
Similar in constriction to shove but ainale gang with eapacity from $10{ }^{10}{ }^{10}{ }^{10} 365 \mathrm{mml}$. Size mes-214 shug. wi., s oz........................Net 74


## RECORDISC RECORDING BLANKS

Orange label: band base for home uses purple labelt oluminum base, general pur pase: red label: heavy aluminum, professional: " $G$ M" label: heavy aluminum, 8 ot range. All double fared. Orange is 6 to a pigg., all othert 5. Av. shpe. wt., 8 or

|  | RaN | A |  |
| :---: | :---: | :---: | :---: |
| Stock No. PR | sise $61 /{ }^{\prime \prime}$ | $\begin{gathered} \text { Each } \\ .17 \end{gathered}$ | $\begin{gathered} \text { Por Pkg. } \\ ., 0 \end{gathered}$ |
| ED LaEEL |  |  |  |
| Mr-18 | 6\%/ | . 30 | 1.35 |
| Pre-19 | $8{ }^{\prime \prime}$ | 40 | 1.80 |
| PR-20 | 10" | . 59 | 270 |
| -m-21 | 12" | . 73 | 3.30 |
| 7" AUDIO DISC Far 45 rpm . Red lobel <br> 5 hpg . wr., 5 ot. <br> pe-46 lots of 25 |  |  |  |
|  |  |  |  |
| TERMINAL STRIPS |  |  |  |
| Superior quality bokelite terminal strips. Solder lugs mounted on $1 / 16$ thick lnsulation. Avoilable with 2, 3 ,4 or 6 solder lugs and screw terminals. 4 or 6 solder lugs and screw terminals.Mounting holes. For $6 / 32$ screws. Av. thpg. wt., 4 oz. |  |  |  |
|  |  |  |  |
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| Stoch no. | Terminals | Ener |  |
|  |  |  |  |
| $\begin{aligned} & \text { Ms-227 } \\ & M \leq: 127 \\ & M \leq-229 \end{aligned}$$\mathrm{ms}^{-171}$ |  | On | 36 |
|  |  | 14 | So |
|  |  | 10 | 1 |

## HEAVY OUTY SCREW

 COLLAR STRIPS$3 / 32^{\prime \prime}$ bakelite. $\%$ " wide Nickel Plated Brous Screw terminals, tinned solder lugs. Ar shog. wt., 4 oz.

|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  | 2 <br> 3 <br> 3 <br> 5 |  |  |

## BAKELITE MOUNTING STRIPS

 mounts parts on Chastis. Av. shps. wt 402.

Page 138

## BAKELITE CASES

Ideal for bulding test equipment and amall electronic devicea. Overall size $61 / 4 "$ " $3 \%{ }^{\prime \prime} \times 2 "$ D. Wills $1 / s^{\prime \prime}$ for mounded cormers have recesbed hreaded foxerts for mountiog panel. Ms-216 in lots of 3, each Av. Mhipg. wi., 11 oz. Singly, each
MS-217 Panel for above
MARGE CASE
with will
MS.215 Panel for Jbove
each 1.20
cact 60

## 24-HOUR STATION CLOCK

 - Tell world-wlde thme of a glancel ideal clock for the cmareur, short- wave listener and for commercial sfations. TD-2400, self-starting, accurate clock for tollime woild. wide as well os locat time. Colltrated in hours, 0100 to 2400, in minules and seconds, 1 to 60 . Hos black hands with red sweep secand hand. "Nio. rotoring Inner dial, frictionally otfached to hour hand, in red set hour hand and inger dity in oll tima zonos. Sh moly read the time in any zone casily, quictriy, occurately. $10^{\circ}$ dia. For $110-120$ valt. 60 cycles, A.C. Shpo. wt. ML-82-Net including excive tox.8x.-.
14.85

MINIATURE VARIABLE
CONDENSERS HAMMARLUND APC MICROS

Used in afl classes of equipment where campact, high quality variable condenser reavired. Hos high leakage resistance, and resistont to temperafure, moisture, and vibro. thon effecte. Straight line capacitance. Hex collor on sloted shoff for rator and screw. driver odiustment. Air gop is $0.015^{\prime \prime}$ nomInal. Shpg.wt., 4 oz

| Stocl No. | $\begin{aligned} & \text { Mfrs. } \\ & \text { Type } \end{aligned}$ | Max. Mmf. | Min. Mrnf. | Net |
| :---: | :---: | :---: | :---: | :---: |
| HP 10 | $\triangle P C-15$ | 17 | 2.8 | 1.22 |
| MP-11 | APC. 25 | 25. | 3.0 | 1.32 |
| HP-12 | APC-50 | 50 | 3.9 | 1.52 |
| HP-13 | APC. 75 | 75 | 4.6 | 1.67 |
| HP-14 | APC-100 | 100 | 5.5 | 1.81 |
| HP-15 | APC-140 | 140 | 6.7 | 2.11 |
|  | Series APC. ( $^{\text {(1/ shoft) }}$ |  |  |  |
| HP-16 | $A P C-158$ | 17 | 2.8 | 1.47 |
| HP-17 | APC-258 | 25 | 3.0 | 1.57 |
| MP-18 | APC. 508 | 50 | 3.9 | 1.76 |
| HP-19 | APC. 758 | 75 | 4.6 | 1.91 |
| HP-20 | APC. 1008 | 100 | 5.5 | 2.06 |
| HP-21 | APC. 1408 | 140 | 6.7 | 2.35 |
| Series APC. (lacking sholt) |  |  |  |  |
| MP-22 | $A P C-15 C$ | 17 | 2.8 | 1.62 |
| HP-23 | APC-25C | 25 | 3.0 | 1.71 |
| HP-24 | APC.50C | 50 | 3.9 | 1.91 |
| HP-25 | APC.75C | 75 | 4.6 | 2.06 |
| HP-26 | APC.100C | 100 | 5.5 | 2.20 |
| HP-27 | APC. 140 C | 140 | 6.7 | 2.50 |

## COUPLERS EXTENDERS <br>  <br> (A) <br>  (C)

Cavert the entire Broadcost bond fram messages, foreign stations, etc. Encellent sensilivity provided by regeneretive circuit. Simple pieture diagrams, schematics and casy-to-fallow instruc tions. With punched chossis-grey ham: merton finish ond silk-screened dials. speoker. less solder, wiro and fubes. Tubes needed: 50L6GT, $125 J 7$ and 3575 GT neoded: $121 / \% 6 \mathrm{GI}, 12537$ and 105-125 Volts AC or DC. Shpe. wf., 4 MODE 70016

| FURPLE LAEEL |  |  |
| :---: | :---: | :---: |
| $61^{\prime \prime}$ | .23 | 1.05 |
| $8^{\prime \prime}$ | .33 | 1.50 |
| $10^{\prime \prime}$ | 46 | 2.10 |
| GM MAEL |  |  |
| $8^{\prime \prime}$ | .33 | 2.40 |
| $10^{\prime \prime}$ | .66 | 3.00 |
| $12^{\prime \prime}$ | 83 | 3.75 |

Brass couplings (A) and extendera (8): Diameter of extender or coupling miny be equal to, Ereuter than, or lens than diameter of shaft exitendlength, $11 / \mathrm{s}^{2}$. Average shpa. wi.. toz. 550 to 1700 Kc . plus the 6.18 Mc band for Shortwave listening. Picks up Hom Complete with hardwore and "" PM

## 12:94



INSULATED COUPLING (C)
Bakelite insulated coupling. Nub accam.
medetes $1 / 4$ " dic. shaff. Shpg. wt., 2 at.
MS. 191
$\mathrm{Nel} .59^{\circ}$
CERAMIC COUPLING (C)
Similar to above but low.loss ceramic for

## HAMMARLUND MAPC

 MINIATURE VARIABLE CONDENSERSAbout half the weight and size of the APC ut with the same quality and performance Encellent for VHF use. Slotted shaft for screwdriver or hem wrench odiust. Nom. air gap $0.0135^{\prime \prime}$. Size $25 / 32^{\prime \prime} W \pm 13 / 16^{\prime \prime}$ H. Shpg $w t ., 4$ oz

| Stock Na. | Mfrs. <br> Type | Maz. Mmf. | Min. Amf | Net |
| :---: | :---: | :---: | :---: | :---: |
| MP. 28 | MAPC-15 | 15 | 2.3 | 1.08 |
| HP-29 | MAPC. 25 | 25 | 2.6 | 1.13 |
| HP-30 | MAPC. 35 | 35 | 2.9 | 1.18 |
| MP-31 | MAPC. 50 | 50 | 3.2 | 1.27 |
| HP-32 | MAPC. 75 | 75 | 3.9 | 1.42 |
| HP. 33 | MAPC. 100 | 100 | 4.5 | 1.61 |
| Series MAPC. $B$ ( $1 /{ }^{\prime \prime}$ Shaft) |  |  |  |  |
| HP-34 | MAPC-158 | 15 | 2.3 | 1.32 |
| NP-35 | MAPC-238 | 25 | 2.6 | 1.37 |
| HP-36 | MAPC-358 | 35 | 2.9 | 1.42 |
| HP-37 | MAPC-50B | 50 | 3.2 | 1.53 |
| HP-38 | MAPC.75B | 75 | 3.9 | 1.67 |
| HP.39 | MAPC-100B | 100 | 4.5 | 1.86 |
| Series MAPC.C (lacking shoft) |  |  |  |  |
| HP-40 | MAPC-15C | 15 | 2.3 | 1.47 |
| HP-41 | MAPC-25C | 25 | 2.6 | 1.52 |
| HP. 42 | MAPC-35C | 35 | 2.9 | 1.57 |
| HP-3 | MAPC-50C | 50 | 3.2 | 1.67 |
| HP-44 | MAPC-75C | 75 | 3.9 | 1.81 |
| HP-45 | MAPC-100C | 100 | 4.5 | 2.01 |

## MIDGET TRIMMER

Bu tyou mi.e3s. Popular 3 to 36 mm trimmer uned for onciliator trucking, nn tenna coupling, and interntige coupling C-T10

## EXTENSION RODS




## PANEL BEARING ASSEMBLY

Use with rigid or flemible coupling
when mounting. Far up to $5 / 16^{N}$

## DIALS - KNOBS - DIAL CORD - TUNING EYES



## 2"0000300

Atroctive, modern-shoped knobs for replocement purposes, molded of highAve. shog. wh.. 2 oz. SET SCEEW TYPE
Fif round of llof $1 /{ }^{\prime \prime}$ shofts. All hove concove polished gold inserts. *Indicates bock of knob recessed $1 / \omega^{*}$. others flush.

| Stoch |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Ne. | Fig. | Diem. | Color | Net | Ee. |

Fit flet $\mathrm{VN}^{*}$ shofts. *ingicores conver goid insert

FLUTED KNOBS

lock fuled knobs, with and without stirt. Mode of thermosetting plostic with high gloss finish. All hove ecessed bross insert and sef screw. Mount on $1 / 4$ round or fotted shoff. Shog. wf. 4 oz.

| $\begin{aligned} & \text { SYOCK } \\ & \text { NO. } \end{aligned}$ | Fig | DIAM. | HEIGHK | Ea | $\begin{gathered} 10 \text { Ep } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| KN-30 | A | 1\%" | \%" | . 19 | 17 |
| KN-31 | A | $13 /{ }^{\prime \prime}$ | $11 / 10^{\prime \prime}$ | . 19 | . 17 |
| KN-32 | , | $1 \%$ " | $3 / 6$ | .22 | . 20 |
| KN. 33 | 8 | $11 / 2$ | 1316 | . 34 | . 30 |
| KN-35 | B | 2-1/10" | 29/32" | . 40 | . 35 |

(at|l||

## COMMUNICATION RECEIVER TYPE KNOBS

Molded of rop-quality Tenite, and hove cosy grip thurl ing. These knobs are $1.7 / 17^{\text {m }}$ in over-oll diameter with chrome-plated bevel shifts for oftroctive oppearance. De pressed numerals ore block enammelled an chrome plote Designed to fit $1 /{ }^{\sim}$ shofts. Shog. wh., 4 oas

$$
.34 \text { eoch } .29 \text { eoch in lots of } 8
$$

KN. 54 Numbered 0.10 through on orc of $300^{\circ}$ clock
KN-5s with o single etched center line index.
KN-56 Numbered 0.10 through an orc of $180^{\circ}$ clock wise.

## NATIONAL KNOBS

Molded of high avolity plostic. All hove $1 \%$ " diom. chrome ploled bevel stirts. is $\%$ " shoft. Avoiloble in block or oroy. Specify. Av shog wt 4 oas
 HRS-4 Single line HR5-5 0.10

## MINIATURE KNOBS



Platic knob, only $\%$ " diometer fin $1 /{ }^{\prime \prime}$ shafis, for minioture components such oi ferri-loogitoch. iub-minioms por. erc. Ar. Shpe. wi., 4 oat 0 M 57

## DIAL CORD

Hondy spools of pre-stretched nylon dial cord in sizes that cover almost all replocement needs. Breoking trength med is 35 lbs, std 20 lbs, thin 15 lbs. Aver oge shpo. wt. 5 or

| TYPE | DIA | NO. $100^{\prime}$ | NET | NO. 25 | NET |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Mod. | $.040^{\prime \prime}$ | MS-507 | 2.91 | M5-504 | .88 |
| $5 t d$. | $.032^{\prime \prime}$ | MS-508 | 2.91 | M5-505 | .88 |
| Thin | $.025^{\circ}$ | M5-509 | 2.91 | MS-506 | .88 |



## STANDARD PLASTIC KNOBS

Plostic knobs with knurled bodies for general opplico fion. All hove molded hole with sef screw for mounting $1 / 4$ " round or flotted shatis except is push on Pype for flatted shoft, $\&$ hos white indicotor lines, | hos oold indicotor line. Av. Shog. wt., 4 ozs.

| STOCK NO. | FIG | DIAM. | COLOR | $\begin{gathered} 1-9 \\ \text { Ea } \end{gathered}$ | O-up $E$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| KN-22 | C | 17 | 8rown | . 09 | . 08 |
| KN-39 | $C$ | 1" | Block | . 09 | . 08 |
| KN-38.1 | D | $1 "$ | Block | . 11 | .10 |
| KN-36 | E | 11/2" | Block | . 12 | .11 |
| KN-371 | E | 29/62" | Block | . 10 | . 09 |
| KN-19 | D | 11/16" | maroon | . 07 | . 06 |

## MATCHED KNOB KITS

- MOLDED FROM MI-IMPACT PLASTIC
- BRASS SCREW AND SHAFT INSERT
- ACCEPTS UP TO $1 /{ }^{\prime \prime}$ ROUND OR FLAT SHAFT


You'll wont these trim disfinclive, functionally styled nobs to odd a custom or professional oppeoronce to our MI-FI. Hom, Tast and Experimontol Equipment. Fin shed in an oltractive steel gray and molded from tough hi-impoes plastic, the knob is of cylinder design with ure-grip huted sides and on oleminum ring-sel in o recessed foce. Rugged bras! screw and mounting shafl insert will occept up to $1 / \mathbf{"}^{\prime \prime}$ round or hot shoft. Each tit contains 5 knobs-all same size. Shog. wi., 7 or.
K1-55 Sirei $1 \% \%^{\prime \prime}$ Diometer \%" Deep Kit........ Nel . 89 K1-56 Size: $1 \%{ }^{\prime \prime}$ Diomefer $11 / 16^{\circ \circ}$ Deep Kir. Net .79 K1.57 Sire: $1^{\prime \prime}$ Diometer $11 / 16^{\prime \prime}$ Deep Kit.... Net . 69


AMPHENOL TUNING EYE assemblies
For use in custom building. Simple to instoll. For se ith AVC, FM sels, lest instruments, elc. Shipping weight 8 od
6 PRONG YYPE: For 6 prong tubes. Includes 1 mee esistor wirel into sochet, 5-wire color-coded 22" lang cable, mig. brockel, escutcheon. hordwore and AMPHENOL 58.MEA 6 Net 1.12
OCTAL TYPE, For all octol pubes including duol and multi-pattorn Mpes. With 8 wire color-coded 22" multi-
coble.


KIT OF $S$ 69c

## (35) <br> LAFAYETTE SPECIALIZES IN MINIATURE PARTS FOR TRANSISTOR CIRCUITS

## INTERNATIONAL RECTIFIERS

## PHOTOELECTRIC CELLS

- self generating

NO EXTERNAL POWER NEEOEO

## Selenium cells

Converts artificial or sunlight ta electrical energy. Sensi Hive to a wide spectrum including white, catered or ultraviolet light. Ratings given below ore 100 foot condo illumination with 100 ohm load. Much higher outputs obtainable with greater light. All unmounted. Shag. wt., 3 az

## Stock Intr Out Size Net Each  




## SILICON CELLS

Rugged silicon cells copoble of converting us to $9 \%$ of rodion energy. Covers wave lengths from approx. 500 1100 millimicrons with peak in the short infro-red range. Chart below shows typical characteristics of $30^{\circ} \mathrm{C}$ with
 Unmounted.


## TINY PLUG AND JACK <br> 



SHORE 1 INCH MIKE TYPE MC-11


Experimenters' delight!
uar cantrolica lar eantroilid - rrlurtance rectang-
 pedunce: output
nistunt trout. M-126

POLYSTYRENE CEMENT AND COIL DOPE


Pure polystyrone.dissolved in thinner. For coating, doping, scaling calls, and for cement. ling polystyrene ta polyity.
cone. 2 az. bottle. Shag. wt. 4 az. -283 -................Net . 44 THINNER FOR ABOVE Cuts and dissolves oolvsty-
rene material. 2 oz. bottle Sh. 3 \% $3^{\text {mt.. }} 4$ or $\qquad$

PLASTIC CASE FOR MINIATURE EQUIPMENT

## POWERMASTER TYPE CDS -10 CADMIUM SULPHIDE PHOTOCELL

A miniature crystal photocell that is ideal for measuring photoelectric control Acis as a resistor that varies with the intensity of light from over 1 megohm in total dies. Rapid response fast enough to operate relays in $1 / 10$ second. Minimum current output 66 ma at 50 ft candles at 90 Volts. Output varies with Illumination intensity and applied voltage to as low as. 08 ma at 1 ft . candle at 6 volts. Power dissipation

2 watts watt continuous.
5 seconds. Useable response to entire watts for 3 seconds. Useable response to en-
visible spectrum with peak sensitivity to blue-green light and with peak sensitivity to biue-green light and good red response. Re-

sponge to infra-red is low. Size $11 / 16^{\circ \prime} \times 5 / 8^{\prime \prime}$ | MS 1/739. |
| :--- |




Super-Value Sun Battery QUANTITY LIMITED! - AN buy enables Lafayette Sensation al buy enobles Lafayette
to offer this fomaus selenium to offer this fomaus selenium
photocell of a small fraction of its normal pricel Approx. 8 MA curcent output of 100 ft . candles with 55 ohms load l. 5 volts open circuit voltage in av. sunlight. 30 MW power output at 100 ft . candles with 1000 ohm til builder a super buy for the oxperimans. $11 / 2^{\prime \prime}$ diam. Mic. With

## AMPHENOL

 POLYSTYRENE SHEETS


MASONITE BREADBOARD Ideal for
Kit Builder
Kit Builders
Tempered
Temperert masonite thearel
whit hole sa

Y $11-27 / 122^{\prime \prime}$
ML -8

Clear, sturdy polystyrene cases, ideal for minioture assemblies, All have removable not removable ship have boll


## PERFORATED BAKELITE BOARDS FOR TRANSISTOR AND SUBMINIATURE CIRCUITRY






 or transmitter. Two pre-drilled asper for Poly Vari-(Con tuning capacitor and a $5 / 16^{\prime \prime}$ opening Idea for rolutue control and switch. In addition. there are two small openings on the aide for such internal leads as antennas or ear phone. Experimenters, builders and hobbyists wilt want to stock


Ivory ${ }_{4}$ Gold Dial Knobs For Above. Wi., 1 oz.
Ivory Miniature Vol. Control Knob. Wit., 1 oz .

## B2M SUN BATTERY

International Rectifier's Sun Battery requires lust average sunlight to generate 2 mo. current under 10 -ohm hood. With million. meter can be used as light measuring de-
vice. In series or series-porallel will drive transistorized equipment. Ideal for spectraphotometers, headlight dimmers, burglar alarms, timers, etc. Measures $724^{\prime \prime}$. $443^{\prime \prime}$ $x .040^{\prime \prime} .60$ microomps © 100 footcondles with $55^{\circ}$ ohm microamp 5 il footcandies light. 25 val at 100 foatcondles. Camplete MS-112...................................Net 1.47


MINIATURE PLUG AND JACK WITH ANTENNA HANK
suse plus. Jack and antenna hank all at one amazingly lon brice. Perfect an tenia set-up for that personal trams ts
ionized recelier, but way br used whet ever a miniature plus and jack are re yulred. Plus housed in so spherleal
plastle shell. Jack has solder lug and ran in amused on panel
 mS. 303.


FLEA CLIPS FOR TRANSISTOR
ANS SUBMINIATURE CONTACTS

# Printed Circuit Components Crystals-Specialties 

## 

Here's o kit every servicemon needs to repair printed circuils or printed wiring in TV sets, hearing aids, rodlos, efc. Contains Print-Kote sllicon resin, solvent, pure silver print, solder probe tool. Print-Kote solder, stalnless br us craper ond printed circuif service monvol. Wr. 2 Ibs.
cc. 680 Kit

## ECONOMY KIT

GC.681 Kit ............................................. 3.4 PRINTED CIRCUIT ESSENTIALS
PRINT-KOTE SILICON RESIN. Used to coat and pro tect ioints and parts after repair. Fast, air drying 2 az. botlle with brush. Shpg. wl.. © ors.

## GC-14-2

PRINT-KOTE SOLVENT. For removing silicon resin or to thin It. 2 az. bottlo. Shpg. wt.. 6 oxs.
GC.13.2
PRINT-KOTE SOLDER. Non-corrosive flux with low molting salder cambined with pure silver. 2 oz. coll. Shpg. Wl., 4 ozs
GC.9131 ...................................................... 44
PRINT-KOTE SILVER PRINT. Pure silver compound. Air deving. Uied to repair printod circuit "wires" and loush up connections. $1 / 2$ Tray oz. Shpg. wt..... 4 ozs. 2.13
GC.21.1 SOLDER-AIO PROBE. Spocial fine point. Stainloss steel. Sold
GC. 9093 . Sperial fine 2 ozs
…....Net 97 BRUSH AND SCRAPER. Staimless sleel brush and stoel seraper. Indispensable tepair tool for printed circuits. Shog. wt., 2 ozs
CC-9094 …............................................... 97 K-27 PRINT COAT. Clear silicone resin in 6 o1. spray can. Insulates and profech. Shpg. wh., 8 ors.
GC 14-6........................................................ 2.13

EPOXY ENCAPSULATION



## FERRITE ANTENNA CORES

- FERRAMIC O RODS AND STRIPSI
- CUSTOM BUILD YOUR FERRITE ROD ANTENNASI
Now you can wind your own ferrite rod onerna and $O$ renuirements A real boon width and 0 requirements. A real baon io design engineer. A necessily in altempting design engineer. A necessily in altempring rectiver minioturizotion. Easily cut to any size required. Avg shpg. Whet eo. 12 far
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 LITZ WIRE
$7 / 41$ stranded per 100 h . Shpg. w1. 8 oz
Belden \#8817-
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HYGROPAK-HUMIDITY SENSOR


New type of electric humidity meos.
uring element. Film type element for stability - reproducibility - polarization. Resistance decteoses with crease in humidity. Extremely fost reaction time. Whil operale in rem. perotures up to $200^{\circ} \mathrm{F}$. Covers the entire humidity ronge with o near MS-407.
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## EL-TRONICS HUMIDITY

 SENSING ELEMENTNow - highly accurate - extromely stoble humidity sensing element. Varies blas on controlted grid of vacuum - directly con. trols meter reading in bridge circuir. Employs conductling plasilc which changes resistonce in the presence of woter vapor Rapid reaction time. Long term stabilitytrauble free operation. Employs punted elos trouble on ooch face. $3 / 4^{\prime \prime \prime} \times 112^{\prime \prime \prime} \times 1 / 16^{m}$ Includes Spers-curves-sample circuiting ncludes Spert-
M5-327


Net 9.00

## PRINTED CIRCUIT KITS

ideal for laboratory WORK TO MAKE
PROTOTYPES
FOR THE BUILDER -
EXPERIMENTER
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Printed circuits ore designed to eliminote wiring ond are ideal for space soving, particularly where minioture camponents are used. Thay ore being used widoly in on over increasing number of applications. With theso kits, you can elch your own circuitry on copper clod Xxxp insulating boards with otching moterials provided. Kits also contoin variaty of other materials and parts sush as printed cireuit sockets, various types of resist-material,
efc. listing below gives contents. All in handsome efc. Listing
plastic box.

## TECHNICIANS KIT

Contains 8 copper clad single faced and 2 double faced boards from $41 / 2^{\prime \prime} \times 6^{\prime \prime} 103^{\prime \prime} \times 21 /^{\prime \prime \prime} ; 6$ tube sockets; 2 pocks otchant; 1 tope resist; 1 liquid resist; 3 dazen eyelets; 1 drill and typical circuit diagrams and direcflons. In plastle box sise $91 / 4 \times 61 / 2 \times 2$. Shpg. wt.

MS-72S KIT NO. S003P
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Not 9.75
A good kit to start off learning the technique of etched circultry. Contains 3 copper clod boards from $41 / 3^{\circ} \times 3^{\prime \prime}$ to $3^{\prime \prime \prime} \times 21_{2^{\prime \prime}}$; 1 eoch 7 and 9 pin sockets; 1 pack elchant; 1 tape resist; evelet assontment; drill and direc. lions. In plastic boz size $51 / 4 \times 11 / 4 \times 4$. Shpg. $\mathbf{w 1}$. 802 MS. 726 KIT NO. 5001P............................Net 3.75

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Provides occurate, rapid means for praducing multiple circuit models. Provides resist patterns for circuitry. labeling lacations, numbers, dials, trademarks, elc. Contoins ready mounted silk sereen, bose, squeegee. 4 oz. etch resist, poddle. phota stencil sheets, instrue Yons, 5 lbs.
MS-727 KIT NO. S006P .. 5.00 Down.. Net 27.00 NEW BALL POINT TUBES
BALL POINT TUBE DEPOSITS RESIST LINE 2 MILES LONGI
Make resist patterns directly on copper clad board. As easy to use as a ball point pen. Deposits line $1 / 16^{\prime \prime}$ wide. No need to "loy-out" colors of resist for color coding of circuiting.
Llauid resist ball point tubes are avalloble in various calors. Yellaw, green, blue, red, brawn, black and MS-728 PRLT-Specify Color........................Net PRINTED CIRCUIT ACCESSORIES
Basic componenls for the experimenter-designes-lab -limited production-etc., In printed circuit construc. tion. Mighest quality materials-indispensoble for pro* totype work.

| Sloc. | Type | Drscription | we. | Nrt |
| :---: | :---: | :---: | :---: | :---: |
| ms-729 | Pre-3 | kirtiant o oza. | 10103m. | 50 |
| Ms.730 | Pbe-s | blehant it? | 1 lt . | . 25 |
| ms.731 | PL. 7 | Barmant- Qt. | 2 th . | 2.25 |
| Ms-732 | Prip-I | -2. Skeletn, |  | 20 |
| ms. 733 | Prix. 2 | 24 Nyelets- |  |  |
| M5.734 | Pictil | Taiwe Rewtin |  |  |
| M5.735 | PRT. 2 | $1 / 32 \times 3$ | 2 ozn. | . 5 |
|  |  | 19 $\times 3: 00$ | 0zs. | 5 |
| M5-736 | FHT-4 | Tapm muntut |  |  |
| MS-737 | Fит!is) |  |  |  |
| M5.736 | PR. 1 |  |  | 40 |

## CLASS D CITIZEN

## BAND CRYSTALS

Exfremely accurate 3rd aver.
 Meler Class D citizen band. Pin spacings $480^{\prime \prime}$ Pin dia .050 . Frequencies available: 26.965, 26.975, 26.985,
$27.005,27.015,27.025,27.035,27.055,27.065,27.075$, $27.085,27.105,27.115,27.125,27.135,27.155,27.165$, $27.175,27.185,27.205,27.215,27.225 \mathrm{mc}$
HE-830 Specify frequency Net Eo. 2.95
AMPHENOL PRINTED CIRCUIT CONNECTORS

Molded of Blue dielectric. Migh impact and tensile sfrength. low moisture obsorplian, high dielectris strength and high arc resistance. Width $1 / 3$ less than $1 / 2^{m}$ high. Ideal for terminotion of circuitry on printed boards. With standord conlact. Av. shpg. wt., 2 azs.

| Amphenal <br> No. | No. of <br> Contacts | Cirs. | Nei | Each |
| :---: | :---: | :---: | :---: | :---: |
| $143-010-01$ | 10 | $2.41^{\circ}$ | 1.15 | 10.49 |
| $143-015-01$ | 15 | $2.93^{\prime \prime}$ | 1.55 | 1.16 |
| $143.018-01$ | 18 | $3.40^{\prime \prime}$ | 1.68 | 1.25 |
| $143-022-01$ | 22 | $4.03^{\prime \prime}$ | 2.00 | 1.50 |

## MINIATURE CAPACITORS FOR TRANSISTOR CIRCUITRY afayette-CORNELL-SPRAGUE-BARCO

## LAFAYETTE TRANSISTOR ULTRA-MINIATURE ELECTROLYTIC CONDENSERS crever



LAFAYETTE SUBMINIATURE SQUARE CERAMIC CAPACITORS
 AS SMALI AS $1 / \mathrm{E}^{\prime \prime}$ sOUARE $\times 1 / 10^{\prime \prime}$ TMIC A new series of dependoble, conservotively roted ceromic copacitors designed for greatest copacitance in the smallest
size. Vocuum impregnoted phenalic cooling. Rated 75 V , lest volts ithree times DCWV. Power foctor $2.5 \%$. Temperature range $-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ Shpg. wt., 1 oz

| Type | Cap. $\mu$ F | L Size Thick. | Nel Each | Lots of 10 . Each |
| :---: | :---: | :---: | :---: | :---: |
| C-608 | 0005 | $1-1 / 8 \times 1 / 8 \times 1 / 16^{\prime \prime}$ |  |  |
| C-609 | 001 | 11/64x11/64x5/64 ${ }^{\circ}$ |  |  |
| C-610 | 002 | $11 / 64 \times 11 / 64 \times 5 / 64^{\circ}$ | 156 | 136 |
| C-611 | 005 | 15/64x15/64x5/64 |  |  |
| C.612 | 01 | $5 / 16 \times 5 / 16 \times 5 / 64^{\prime \prime}$ |  |  |
| C.613 | 02 | $13 / 32 \times 13 / 32 \times 5 / 64$ | 226 | 196 |
| C-614 | 05 | 31/64×31/64×7/64" | 30c | 276 |
| C-615 | 1 | $15 / 32 \times 15 / 32 \times 1 / 8^{\prime \prime}$ | $45 c$ | 416 |
| C-616 | 2 | 9/16x 9/16x1/8" | 56 c | 516 |

SPRAGUE MINIATURIZED DISC CERAMICS

Tiny, dependable, high capocifonce-low voltand coupling applicotions in crowded transis tor portables. Tough moisture-proof cooting pretects against shorts and ossures good per. larmonce even when subjected to severe humidity and | Type | Cap. $\mu F$ | Tol. | Dic. | Nel |
| :---: | :---: | :---: | :---: | :---: |
| TG-D50 | .005 | $+80 \%-20 \%$ | $5 / 16^{\prime \prime}$ | .26 |
| TG-S10 | .01 | $+80 \%-30 \%$ | $3 / 8^{\prime \prime}$ | .38 |
| TG-S20 | .02 | $+80 \%-20 \%$ | $19 / 32^{\prime \prime}$ | .38 |
| TG-S30 | .03 | $+80 \%-20 \%$ | $19 / 32^{\prime \prime}$ | .38 |
| TG-S25 | .025 | $+80 \%-20 \%$ | $19 / 32^{\prime \prime}$ | .38 |
| TG-S50 | .05 | $+80 \%-20 \%$ | $19 / 32^{\prime \prime}$ | .41 |
| TG-P10 | .1 | $+80 \%-20 \%$ | $3 / 4^{\prime \prime}$ | .53 |

SPRAGUE "UNIVERSAL' CERAMIC CAPACITORS
JUST 4 "UNIVERSALS" CAN BE OUICKIY CONVERTEO 1042 VALUES BEIWEEN .0004 and . 015


TYPE

## UGA-1

UGA-2
UHK-2
sprague transistor ultra miniature ELECTROITIIC CONDENSERS

copocitors. Excellent replacement capacitors for tron.

$$
\begin{array}{c|c|c|c|c|c} 
\\
\text { sistorized equipment. Shpo. wt., } 2 \text { oz. } \\
\text { Type } & \text { Ceg. } \\
\mu 5 & \text { WVDC } & \text { Diem. } & \text { Length } & \text { Net } \\
\hline
\end{array}
$$

| Type | Cap <br> $\mu$ r | WVDC | Diam. | Length | Net |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TE-1010 | 5 | 1 | $3 / 16$ | $9 / 16$ | .73 |
| TE-1051 | 2 | 3 | $3 / 16$ | $1 / 2$ | .73 |
| TE-1053 | 10 | 3 | $1 / 4$ | $5 / 8$ | 73 |

BARCO TRANSISTOR ULTRA.MINIATURE ELECTROIYTIC CONDENSERS

|  |  |  |  | \%" lang |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| for applications in Tronsistor and Minioture Electronic Circults, mall hermetically-seoled aluminum electro Itric condenters. lowleokoge current, llablé copecily. Will ht onywhero. 5 higg. wt., 2 oz. |  |  |  |  |  |
| Type | Cap <br> $\mu \mathrm{F}$ | WVDC | Diam. | Length | Net |
| P6-1 | 1 | 6 | 1/8 | 15/32 | . 50 |
| PT6-2 | 2 | 6 | 11/64 | 9/36 | . 1 |
| P6-25 | 25 | 6 | 1/4 | 3/4 | . 44 |
| P6-80 | 80 | 6 | 23/64 | 3/4 | . 59 |
| P6-160 | 160 | 6 | 23/64 | 1-9/32 | . 73 |
| PT8. 2 | 2 | 8 | 1/8 | 5/8 | . 59 |
| P9-20 | 20 | , | 1/4 | 3/4 | . 44 |
| PT12-2 | 2 | 12 | 11/64 | 9/16 | . 41 |
| PS12-3 | 3 | 12 | 11/64 | 9/16 | . 41 |
| P12-S | 5 | 12 | 11/61 | 15/32 | . 50 |
| ${ }_{P} 12-16$ | 16 | 12 | 1/4 | 3/4 | . 44 |
| P12.50 | 50 | 12 | 23/64 | $3 / 4$ | . 59 |
| PX25-2.5 | 2.5 | 25 | 11/64 | 15/32 | . 50 |
| Pr 50.25 | 1/4 | 50 | 1/8 | 5/8 | . 59 |
| P25-4 | 4/10 | 25 | 1/8 | 15/32 | . 59 |
| P25-8 | 8 | 25 | $1 / 4$ | 3/4 | . 44 |
| P25-25 | 25 | 25 | 23/64 | 3/4 | . 59 |
| P25-50 | 50 | 25 | 23/64 | 1-9/32 | . 73 |
| P40-5 | 5 | 40 | 1/4 | 3/4 | . 44 |
| P40-30 | 30 | 40 | 23/64 | 1-9/32 | . 73 |
| P70-3 | ${ }^{3}$ | 70 | 1/4 | 3/4 | . 44 |
| P70-10 | 10 | 70 | 23/64 | 3/4 | . 59 |
| P70-20 PT1508 | 20 | 70 150 | 23/64 | 1-9/32 | . 73 |
| PTISO8 | 8 | 150 | 1/2 | 1 | . 73 |

CORNELL-DUBILIER ULTRA-SMALL ALUMINUM-CASED ELECTROLTITCS

Comport nermefically sealed oluminum foll electratitio capocitors. With welded leods. Shpg. Wh., 2 ozs.
Cat. No. $\quad$ DE DCWV| Diam. Length Net


## UNIVERSAL CERAMIC CAPACITOR KIT

 Versolite, multi-purpose copocitor thit. Covers . 0004 through . 015 mfd . in minimum spoce. Roted of 500 UGA-2. Complete with instructions on how to select $\begin{array}{llll}\text { desired copocitonce. } 31 / 2 \times 81 / 2 \% \text {. Shpg. wh., } 3 \text { oz. } \\ \text { Sprague CK-4. } & & \text { Net } 3.88\end{array}$

## LAFAYETTE Moloex ex-Pass CONDENSERS



For genorol replocement service, estremely duroble and very compoct. Hove high insulation resistance, Molded in high tempersivie and shock. Entra slrang capper weld leads eliminate breakoge during instollotion. Tempero. ture range 40 to 90 C. Made by a leading candenser monufocturcr. Average shpg. wt., 4 oz. ea.

| 5tock No. | Mfd. | Voltage | Price Ea. | Price in lats of 10 | $\begin{gathered} \text { Box of } \\ 100 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| C500 | . 001 | 600 | 096 | O8e Each | 7.50 |
| C501 | . 002 | 600 | 096 | O8¢ ${ }^{\circ}$ | 7.50 |
| C502 | . 005 | 600 | 096 | 086 | 7.50 |
| C503 | .01 | 600 | $10^{\circ}$ | 098 | 7.50 |
| C507 | . 02 | 600 | $10^{6}$ | 09\% " | 8.00 |
| C508 | . 03 | 600 | 116 | 108 | 8.50 |
| C505 | . 05 | 600 | 125 | 104 | 9.00 |
| C506 | . 1 | 600 | 15 c | $12^{c}$. | 11.25 |
| C525 | . 005 | 1800 | 145 | $12^{\circ}$ | 10.25 |
| C526 | . 008 | 1600 | 145 | $12^{\circ}$ | 10.25 |
| C527 | .01 | 1800 | 146 | $12^{\circ}$ | 10.25 |
| C528 | . 05 | 1600 | 20 C | 185 | 15.50 |

## LAFAYETTE TUEUUAR <br> ELECTROLYTICS

 ABLE SAYING ME TODAY. AND AT A CONSIDER-


OIL FILLED NETALLIZED PAPER CAPACITORS

|  |  | - PRICE IS RIGHT <br> - EXCELLENTFOR BUILDING YOUR OWN CROSSOVER NETWORK <br> SELF - HEALJNG TYPE <br> filled metallized paper copacitars have the that they ore self heating. Even many breakharmless. Capacitanse iolerance is $\pm 10 \%$ a ocity. Dielectric loss less than $10 \%$ of 20 C of 1000 cps . Insulation resifitance over 500 meg ween terminals. Overall dimension lor 2 u Is $1 \% \equiv \% \times 1 \%$. Overall dimension for 4 and acilar are $13 / 4 \times 1 / 4 \times 2 \% /{ }^{\prime \prime}$ and $1 \% \times 1 / 4 \times 2 \%{ }^{\prime \prime}$ ly. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Stock No. | Cop. Mfd. | ocwr | Shpg. Wi. | Net E |
| CF. 114 CF. 115 CF-116 | 2 4 8 | 150 150 150 | 3 oz. 5 oz. 8 or. | .59 .79 1.19 |

- PRICE 15 RIGHT
- EXCELLENTFOR BUILDING YOUR OWN CROSSOVER NETWORK
- SELF - HEALJNG TYPE


These ail filled metallized paper copocitars have the advanlage that they ore self healing. Even many breakrated capociry. Dielactric loss less than $10 \%$ of 20 C . measured af 1000 cps . Insulation resisfance over 500 megohms between terminols. Overall dimensian for 2 uf 8 copacitor ore $1 \frac{\pi}{4} \times \% \times 2 \%$ " ond $1 \% \times 1 / 4 \times 2 \%=$ respectively.
stock No. Cop. Mfd.

CORNELL-DUBILIER TYPE BC PRINTED CIRCUIT TUBULARS Porollel lead wires permit these phenolis. cosed paper tubular copacitors to be plugged directly inta printed circuits and thip soldered. Extremely wide temperalure range. Leads have law resistance con: nections to Ioil. Withstonds estremes of soldering lemperatures without domage. Averoge shpg. wt.. 4 ol .

| TYPE | $200 \mathrm{~V}$ | $\begin{gathered} \text { DCW } \\ \text { SIZE } \end{gathered}$ | EA. |
| :---: | :---: | :---: | :---: |
| 3C-2068 ${ }^{\text {d }}$ | . 0068 | \% $\times 1$ | . 18 |
| BC-251J | . 01 | \% $\times 1$ | . 18 |
| 8C-2515J | . 015 | $3 / 6 \times 11 / 6$ | . 18 |
| 8C-2522J | . 022 | 3/6 $\times 11 / 4$ | . 21 |
| C-2333J | 0.33 | 7/16x1/4 | . 21 |
| BC-2547J | . 047 | $1 / 2 \times 11 / 6$ | . 21 |
| BC-2568J | . 068 | $1 / 2 \times 11 / 4$ | . 21 |
| BC-2PIJ | . 1 | $1 / 2 \times 11 / 2$ | .24 |
| BC-2P15J | . 15 | $1 / 2 \times 11 / 8$ | . 26 |
| BC-2P22J | . 22 | 5/6 $\times 17 / 6$ | . 29 |
| BC.2P33J | . 33 | $5 \% \times 1 \%$ | . 32 |
| BC-2P47J | . 47 | $1 / 8 \times 21 / 2$ | . 38 |
| BC-2P6BJ | . 68 | 1/8 $\times 21 / 2$ | . 41 |

COMELI DUBMER-

## 600V DCW

|  | 600V | cw |  |
| :---: | :---: | :---: | :---: |
| TYPE | ${ }_{\text {che }}$ | SIzE | EA. |
| BC-601J | . 001 | \% $\times 1$ | . 18 |
| BC-6015J | . 0015 | 3/8. $\times 1$ | . 18 |
| BC.6022J | . 0022 | $3 / 6 \times 1$ | . 18 |
| BC.0033J | . 0033 | $1 / 8 \times 1$ | . 18 |
| BC-6047 | . 0047 | \% $1 / 1$ | 18 |
| BC.6068J | . 0068 | \% $\times 1$ | . 18 |
| BC.651J | . 01 | 1/8 $\times 11 / 4$ | .21 |
| BC-6513J | . 015 | $716 \times 11 / 6$ | .21 |
| AC.6522J | . 022 | $7 / 16 \times 1 / 4$ | . 24 |
| BC.6533J | . 033 | $1 / 2 \times 11 / 4$ | . 24 |
| BC.6547J | . 047 | $1 / 2 \times 11 / 2$ | . 26 |
| BC-6568J | . 068 | \% $\times 1 \%$ | . 29 |
| BC.6P1J | . 1 | $5 / 8 \times 1 / 6$ | . 32 |
| 8C.6P15J | . 15 | $7 / 6 \times 21 / 2$ | . 35 |
| BC.6P22J | 22 | 7/6 $\times 21 / 2$ | . 38 |
| 8C-6P3JJ | . 33 | 1/8 $\times 21 / 2$ | . 41 |
| BC-4P47J* | . 47 | 7/6 $\times 21 / 2$ | 41 |

# CAPACITORS CORNELI DUBILIER STSRAGUE SPRAGUE "ATOMS" CORNELL-DUSILIER TYPE TVA "BLUE BEAVER" TYPE BRR AND BR <br> "DANDEE" TYPE PRS <br> MALLORY TYPE TC <br>  <br> <br> \section*{AEROVOX} <br> <br> \section*{AEROVOX} <br> <br> \section*{} <br> <br> \section*{} <br> Compare olectrolytic tubulat for radio Dry electrolytic eapacitorn for fifter and and vented for excessive eum pressures. In inumb tube and having exiernat eardibum sleeve. 

 ntund high temperaturea, olpple currents sun with wax impregnuted cardbond outer and surge voltages.

SINGLE SECTION







## DUAL UNITS-SEPARATE SECTIONS

| $\begin{gathered} \text { Stech } \\ \mathrm{No.} \\ \hline 2260 \end{gathered}$ | c-s. <br> mold. <br> 15.15 | W.V. | Sprasue | $\begin{aligned} & \text { C.D } \\ & \text { EDL } \end{aligned}$ | Aerovaz PRS-8 | $\begin{gathered} \text { Mellory } \\ \text { res } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Not } \\ \text { Pen. } \end{gathered}$ | $\begin{gathered} \text { Stech } \\ \text { Mo. } \\ \hline \end{gathered}$ | Cag. | W.V. | Spranu* | $\begin{aligned} & \text { C.D } \\ & \text { EDL } \\ & \hline \end{aligned}$ | Merovon PRS. 8 | $\begin{gathered} \text { Mallory } \\ \text { TC: } \end{gathered}$ | $\begin{aligned} & \text { Not } \\ & \text { eal. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2261 | 20.20 | 150 | 220 | 2215.58 | PRS-8 | 14 | 1.18 1.21 |  |  |  |  |  |  |  |  |
| 2262 | $10-: 10$ 10.20 | 1.00 180 | 120 | 4:185S | PRS-8 | 1\% | 1.21 1.32 | 2271 | 10.16 20.20 | 2.10 2.00 | 216 |  | PRS-8 |  | 1.23 1.28 |
| 2264 | 10.20 40 | 180 | 120 | 421685 | PRS-R |  | 1.29 | 2273 |  | 3.50 |  |  |  | is. | 1.30 |
| 2265 | 50-30 | 150 |  | 8:tIsss |  | $4 \times$ | 1.36 | 2374 | 15-15 | \$150 |  |  |  | 6.4 | 1.23 |
| 2266 | 50-50 | 180 |  | Sis inss |  |  | 1.15 | 2275 | - R-A | 450 | ** |  | PRS-B | 71 | 1.26 |
| 2267 2268 | R0-40 78.70 | 150 | $\cdots$ | R415sis |  |  | 8.32 | 2277 |  | 4 |  |  |  | $\bigcirc 4$ | 1.62 |
| 2269 | 10.10 | 250 |  |  |  | 505 | 2.12 | 2276 | $1 \mathrm{fi-1} \mathrm{\%}$ | 4.50 | 1 tit |  | PRS. ${ }^{\text {P }}$ |  | 1.44 |
|  |  |  |  |  | . $\cdot . .$. |  | 1.23 | 2278 | 20-20 | $1: 50$ |  |  | PRS-B | . | 1.Es |





TWIST PRONG CAPACITORS TRIPLE SECTION（cont．）

| TWIST PRONG CAPACITORS TRIPLE SECTION（sont．） |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Stoek } \\ & \text { Not } \end{aligned}$ | Casal： | DCwv | $\begin{gathered} \text { C.D. } \\ \text { Typ } \\ \text { up } \end{gathered}$ | $\begin{gathered} \text { Straseve } \\ \text { TVi } \\ \hline \end{gathered}$ | $\begin{aligned} & \text { Mallery } \\ & \mathbf{T y P r o p} \\ & \mathbf{w P P} \end{aligned}$ | CD | $\begin{gathered} 8120 \\ \mathbf{s} \\ \hline \end{gathered}$ | 0 | $\operatorname{Nax}_{\mathrm{Ean}}$ | $\begin{aligned} & \text { stect } \\ & \text { Mo } \end{aligned}$ | Cars． | DCwr | $\begin{gathered} \text { C.D. } \\ \substack{\text { Cypo } \\ \text { UP }} \\ \hline \end{gathered}$ | $\begin{gathered} \text { Sgrapue } \\ \text { YYiot } \\ \hline \end{gathered}$ |  |  | $\begin{gathered} 8120 \\ 8 \\ \hline \end{gathered}$ | m | Man |
| ${ }_{2}^{21164}$ | 5．80． 40 | 470．300－300 | C1231 | 3114．7 | 2 | L | ${ }^{\text {P }}$ | P | 2.44 | ${ }^{2} 1180$ | 15－15－15 | 40 | C0254 | 8 2 |  | E | E |  | 12 |
| 21165 81166 | $80-80-20$ $80-80-20$ | $430-400.250$ $450-100-350$ |  |  |  | 0 | P | P | 3.21 | ${ }_{2}^{21092}$ | － $\begin{aligned} & 20-10-10 \\ & 20-20-20\end{aligned}$ | \＄30 | C0280 | 3779 3780 | 378.3 376.5 |  | $\overline{\mathbf{E}}$ | ${ }_{\mathbf{K}}$ | 1.71 <br> 2.12 |
| 81187 | － $30-15-40$ | 450－350－25 | ${ }^{\text {c1412 }}$ | 37223 | 3425 | d | J | L | 1．88 | ${ }_{2} \mathbf{z} 1094$ | － $30-20-20$ | 450 | ${ }^{-0280}$ | 3781 |  | ${ }^{2}$ | ${ }_{L}^{2}$ | ， | 2.27 <br> 2.27 <br> 2.58 |
| 11064 11067 | $3 n-90-50$ $80-40-10$ | $450-350-25$ $450-3: 0.350$ 40 | ${ }_{C 1}^{C 144}$ | 3723． | 342.7 34.6 | $\frac{8}{2}$ | K | K | 2．18 |  | $30-30-39$ $30-60-10$ | 450 480 | co300 C03110 | 3785 3790 | 37 m | $\stackrel{L}{\mathrm{~L}}$ | M | L | 2.36 2.65 |
| 21168 | 20－80 | 450－350－3．30 | 7218 | 3724； |  | ， | t |  | 2.30 | ${ }^{-11096}$ | － $\begin{gathered}30-60-10 \\ 40.10-10\end{gathered}$ | 450 | ${ }^{\text {cosi30 }}$ | 378． | 376.8 | L | $L$ | L | 1．91 |
| 21070 | 10－10－10 | 150.0500 .23 $450.430-23$ | C0910 | $37=8$ | 2， 2 | c | D | c | 1.41 | （ 21098 | 40．30－20 $40.40-10$ | 4500 | C0330 Co340 | 3784 |  | ${ }_{L}^{2}$ | $\frac{1}{M}$ |  | 2.33 <br> 2.4 |
| 21073 | 15－15－40 | $150-150-23$ | Co945 | 3731 | \％ 5 | D |  | D | 1.6 | z1181 | 40－10．20 | 150 | C0344 | зімя | 376.9 | ＊ | ， | 2 | 2.62 |
| 21074 |  | 450－150－25 | C0960 | ${ }^{3735}$ | 345 ， | D | ${ }^{\text {E }}$ | D | 1.79 | ${ }_{\text {2100 }}^{21100}$ | 40－40－40 | 450 | ${ }^{\text {cosen }}$ | －3787 |  | v |  | $\underset{p}{P}$ | 2．88 |
| 11076 <br> 11077 <br> 107 | － $20-20-30-20$ | $450-450-25$ 450.150 .25 | ${ }^{\text {co990 }}$ | 3739 3711 | 345.8 | K | ${ }_{\text {K }}$ | D | 2.05 | ${ }_{21101}^{2182}$ | 60－20－20 | \＄30 | cosis | 3789 |  | N | 2 |  | 2.88 2.70 |
| 21169 | 30－30－125 | 450．450－23 | C1034 | 3743 |  |  | L |  | 2.33 | 21183 | 60－40－20 | 150 | C0365 | 3791 |  | N | 1 |  | 2.4 |
| 11170 | 10．20－30 | $450.430 \cdot 27$ | ${ }^{C 1050}$ | ${ }^{374.3}{ }^{3} 7$ | ${ }_{346}^{345.3}$ | K | K | K | 2．06 $\mathbf{2 . 3 2}$ | cilics | 80－40－20 $20-50-20$ |  | ${ }^{\text {Co331 }}$ | 3793 3801 | ${ }_{3}^{3789} 1$ | Q | $\frac{p}{E}$ | ${ }_{F}^{\mathrm{F}}$ | 3．10 |
| 21171 | 40－40－20 $60-40-40$ | 450－250－25 $450-600-25$ | ${ }^{\text {Clios }}$ | 374．2 |  | L | $L$ | L | ${ }_{2}^{2.32}$ | ${ }_{21185}^{218185}$ | 80.80 .50 | 175．150－30 | ${ }^{\text {c14 }} 19$ | 3801.5 | 3 31．1 | 0 | $\stackrel{\rightharpoonup}{P}$ | P | 2.25 |
| 21172 | 80－10－123 | $4: 50-450-25$ | C110 | 374．3 |  | N | M |  | 2.59 | 21106 | 10－4－100 | 175－350－50 | C144 |  |  | D |  |  | 2.85 |
| 21079 | 10－40－100 | 450－450－35 | C1110 | 3746 | 1364 | 9 | P | P | 2.00 | ${ }^{21186}$ | 10－4－40 | 175－350－2．20 | ${ }^{\text {che }} 14$ | 3807 3815 |  | 3 | 5 |  | 1．62 |
| （2）080 | lol $\begin{aligned} & 10-10.40 \\ & 20-10-50\end{aligned}$ | $150.450-50$ $430-450-90$ | （0920 C0970 | 3749 3731 | 366 | D | D | ${ }_{\text {E }}$ | \％ | lill | $10-40-100$ $10-80-10$ | （175－450－200 | ${ }_{\text {C11 }}{ }^{\text {C1／}} 1$ | 3818.3 | 3n9．5 | $\square$ | $\underset{\sim}{L}$ | $\stackrel{1}{P}$ | 3.24 |
| 2173 | 30－10－150 | 1510－430－30 | C1003 | 3732 | ${ }_{366}^{366}$ | ${ }^{K}$ | ${ }^{6}$ | K | 2．06 | ${ }^{211188}$ | 20－10．100 | 175－175．40 | cill | 3219 | 399.1 | 0 | ${ }^{\text {P }}$ | ${ }_{P}^{\text {P }}$ | 3．09 |
| $\frac{21174}{21175}$ | $3 .-23-100$ $10-10.100$ | $450-150-30$ $\mathbf{5 0 - 4 5 0} 50$ | C1036 | 3754.2 |  | 2 | $t$ |  | 2.33 2.53 | 21114 | 20－20－6n $30-30-20$ | 175－475－4 | C0371 | 3840 | 391.1 | 1 | L | L | 2.85 $\mathbf{2} .62$ |
| 21083 | 10－40－180 | $450-450$－50 |  | 3735 |  | N | M |  | 2.53 | 21190 | 40－20 | 17. |  | 3R4？ | 396.1 | L | 1 | L | 2.79 |
| ${ }^{2} 1008$ | 80．40．75 | 430－150．50 | ${ }^{C} 1104$ | 37\％6 | ${ }^{368}$ | N | P | P | 2.71 | ${ }^{3} 1181$ | 40－30－10 | 175 | C037 ${ }^{\text {c }}$ | $38+2.5$ | 398．18 |  |  | L | 2．55 |
| 2176 | 90－20－100 | ＋100－450－50 | ${ }_{C 1108}$ | 3738 | 368.3 369.1 | $\stackrel{9}{8}$ | P | P | 2822 | 2118 | 40－30－30 $20-10-100$ |  | ${ }_{\text {Clis }}$ | 384.7 3928 | 39\％．14 | $\stackrel{N}{N}$ | H | $F$ | 3.03 <br> 1.82 <br> 1.85 |
|  | 10－10－80 | \＄ $50-450-200$ | C10s0 | 3761 | 370 | i． | 4 | $\underline{L}$ | 2.30 | 21120 | S0－10－100 | 500． $5000.20 n$ | Clism | 3935 |  | － | － |  | 3.41 |
| 21177 | 40－40－60 | －10－450－200 | 102 | 376.1 |  | N | \％ |  | 2.62 | 21193 | 20－20－60 | 500－500－450 | C118\％ |  |  | N |  |  | 2.85 |
| 21087 | 40－40－100 | 450－4：0－200 |  | 3784 | 37 |  | P | P | ${ }^{2} .81$ | ${ }^{2} 198$ | 10－10－10 | 500 | C0380 | ${ }_{39} 3888$ |  |  | E |  | 1.39 <br> 34 <br> 4. |
| （ | ¢0－40－900 | $450-160-350$ $450-450-330$ | $\mathrm{Cl}_{\text {C1103 }}^{\text {C103．}}$ |  |  | $\stackrel{9}{8}$ |  | P | 3.27 2.50 | 21195 2196 2199 | （ $\begin{aligned} & 30-20 \\ & 10-10\end{aligned}$ | 500 | CO390 coton | 39：88 |  |  |  |  | 2.48 <br> 2.30 <br> 2.38 |
| 21090 | 10－10－10 | eso | C0240 | 3736 | 38 | D | E | D | 1.53 | 21197 | 10－40－10 | 500 | CO410 | 3985 |  |  |  |  | 2.97 |
| QUADRUPE SECTION |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 stac | Capt． | DCw | $\underset{\text { c.D. }}{\substack{\text { c.D. }}}$ | $\begin{aligned} & \text { serawe } \\ & \text { TYYi } \end{aligned}$ | $\begin{aligned} & \text { Mallery } \\ & \text { TyP-FP } \end{aligned}$ | co | $\begin{gathered} 5120 \\ 8 \end{gathered}$ | m | $\mathrm{Mel}$ | $\begin{aligned} & \text { Stoet } \\ & \text { No } \end{aligned}$ | man. | DCW | $\begin{aligned} & \text { c.D. } \\ & \text { Typ } \\ & \text { up } \end{aligned}$ | $\begin{aligned} & \hline \text { Serainue } \\ & \text { Tyige } \end{aligned}$ | $\begin{aligned} & \text { Malliery } \\ & \text { wpyer } \\ & \text { wip } \end{aligned}$ | co | $8$ | $\square$ | Met |
| 21881 | 50－20－150－30 | 150－15－15 | 8662 |  |  | ！ |  |  | 1.85 |  |  |  |  |  |  |  |  |  |  |
| 21201 | $20-20-160-40$ $50-40-150-40$ | 150－250－23－25 | X1008：4 | 4409．7 | \＄03． 405 | J | J | ， | ${ }^{2.189}$ |  | 20－40－100－100 $10-100-10-20$ | L50－350－250－50 $450-350-350-25$ | D0750 | 1708 | 24.1 | N |  | $\underline{L}$ | 3.04 |
| ${ }_{21293}^{21292}$ | So－40－150－40 $10-40-20-200$ | ${ }_{1} 150.150 .150 .10$ | nozan | 4113 | 8107.5 | J | 3 | J | 1．86 | 21240 | 10－60－40－23 | 450－350－350－25 | D0740 | 4707 |  |  | $\bar{p}$ | P | 2.80 |
| 21204 | 60－40－20－200 | 150－150－130－10 | n0300 | 411\％ | 408 | J | ${ }^{3}$ |  | 2.03 1.08 1.8 | 21368 21360 $\mathbf{2}$ | $80-10-40-30$ $20-80-30-100$ | $450-400-300-300$ $430-350-350-54$ | ${ }^{\text {D }} 0784$ | 4711 |  | 9 | P |  | 3.32 |
| 21209 | 30－30－30－40 | 150－150－150－2 | 00210 | 1417 |  | 1 | J |  | 1.73 | 21242 | 20－13－20－20 | $450-450-25.25$ |  | 4712 | 438 |  | J | J | 2.03 |
| $\begin{array}{r}21296 \\ \mathbf{2 1 2 0 6} \\ \hline\end{array}$ | － $60-40-30-20$ | 150－150－150－25 | ${ }^{\text {D } 0240}$ | 4420 | 408 | 1 | d | 」 | 0.82 | 21370 | 20－20－20－20 | 450－450－25025 | pos90 |  |  |  |  |  | 2.05 |
| 21295 | 40－40－10－20 | 150－1：0－150－23 | B0250 | 4421 |  | J | 3 |  | ${ }^{1} \mathbf{8} .09$ | 21371 $\mathbf{2 1 2 4 3}$ $\mathbf{1} 21$ | $20-20-60-100$ $10-40-125-125$ | $150-130-150-25$ $150-50-150-25$ |  | 4712.8 | 128.9 | K |  | ¢ | 3.35 3.35 |
| 21296 | $40-40-40-160$ $50-20-20-200$ | － $150-1: 130.150-25$ |  | 4124 | 109.4 | 1 | 3 | 3 | 2.06 | 21244 | 10－10－60－100 | 430－450－200－50 | Dosic | 4713 | 437.5 | $\frac{4}{4}$ | L | K | 2.26 |
| 21297 | 50－30－30－100 | 150－150－150－23 | D0290 | 4124.5 |  | J | ， |  | 2.00 | 21372 | ${ }_{\text {cose }}^{35-25-20-100}$ | 450－150－200－50 | ${ }^{\text {Dogi2 }}$ | 1714.3 |  | $\underset{\sim}{1}$ | \％ |  | 3．35 |
| 21208 | 30－30－30－20 | Le．130－150－25 | D0290 | 44.31 |  |  | J | $\pi$ | ${ }_{3} .15$ | 21246 | 40－40－30－30 | $450-450-350-350$ | D0930 | 4720 | 428.4 | 9 | P | P | 3.47 |
|  | 80－40－40－40 | 1：00－150－150－25 | D032： | 4432 | 111.32 | J | k | $\pi$ | 2.12 | 21374 | 10－10－10－20 | 150－450－450－25 | D－H80 | 4723 |  | J |  |  | 1.85 |
| 71211 | $\bigcirc 0-40-40 \cdot 100$ | 150－150－150－25 | ${ }^{\text {D03 }} 33$ | 4134 |  | K | F |  | 220 | ${ }_{2}^{21375}$ | 20－20－20－20 | 430－430－450－75 | D0320 | ${ }_{4724.2}$ |  | $\frac{1}{2}$ | L |  | ${ }^{2} .45$ |
| 1299 | 100－90－60－200 | 150－130－150－75 | D0336 | 41.37 | 111.5 | 5 | $L$ | $\frac{1}{\mathbf{p}}$ | ${ }_{3.50}^{2.81}$ | 21376 | （10－10－10－230 | 450－450－450－25 | D0600 | 4128 | 432 | L | $\stackrel{L}{L}$ | 2 | ${ }_{2}^{2.73}$ |
| 300 | $200-200-100-10$ | 150－150－150－7 | ${ }^{\text {D03 }}$ |  |  | 3 | J |  | 3.94 | 21378 | 10－80－20－20 | 450－150－450－25 | 10624 | 4731 |  | L | 1 |  | 2.71 |
| ${ }_{21213}$ | 10－40－80－60－40 | ${ }_{130}$ | Deol + | 144：3 | 412 | 1 | L | L | 2.73 | 21232 | 40－20－20－40 | 450－450－450－25 | D0630 | 4732 | 438 | L |  | 2 | 2.73 |
| ${ }_{21216}$ | $100 \cdot 40 \cdot 10-100$ | 250－230－2．30－50 | D03cia | 4510 |  | N | M |  | 3.03 | 2123 | ${ }^{10-30-10-20}$ | 150－450－150．25 | Nebto | ${ }^{6734}$ | 429 | L |  | L | 2．E5 |
| 21302 | 20－150－150－100 | 300．1：0－1：0－30 | D0710 | 4537 |  | 0 | P |  | 3.12 | ${ }_{2}^{21250}$ | 40－40－10．20 $10-40-20-20$ | $50.450-450-25$ <br> $50.450 \cdot 450-25$ |  | 1737 |  |  | ＊ |  | 2．0．0． |
| 21303 | 10－200－140－30 | 300－150－150－1：0 | ${ }^{1 \times 0694}$ |  | 817．3 | R | P | p | 3.15 | 21235 | 40－40－40－40 | 450－450．450－25 | 10683．2 | 4739 | 430.8 | N |  | P | 3.29 |
| 2130 | $10-200-200-30$ $100-60-10-20$ | 300－200－1：0－50 | j0929．3 | 4579.5 |  | $\mathbf{L}$ | M |  | 3.15 | 21380 | 60－40－40－10 | ＋30－450－450．25 | Dos7 ${ }^{\text {a }}$ | 1739.4 | 430．\％ | 9 | P | P | 3.53 |
| ${ }^{2} 17308$ | 80－5－60－20 | 300－300－150－27 | D0788．2 |  |  | K |  |  | 2.53 2.87 | 21301 21382 | 80－50－5－20 $80-40-40-40$ | $450 \cdot 450 \cdot 430-25$ $450.450 .450-25$ | D0678 | 47398.8 |  |  | ${ }^{\mathbf{P}}$ | P | 3.13 <br> 3.70 |
| 2130 | $140-10-10-100$ $140-10-10-100$ | ${ }_{3}^{300-300-300-150-25}$ |  | 45An， 6 | 418.7 | $N$ | 3 | P | 2.87 3.06 | 2 | 80－20－20－100 | －50－450－450－50 |  | 4740 | 437 |  |  | K | 2.8 |
| 21309 | ${ }_{100-10-200-30}$ | 300－300－130－150 | 1086 | CSB1 | 419 | R |  | P | 3.47 | 21257 | 30－30－15－30 | － $150-450-450-50$ | D0360 | 4742 |  |  | 1 |  | 2．00 |
| 21320 | 200－20－100－20 | 300－2．50－50－25 | D0940 | ${ }^{1883}$ | 419 | ${ }^{R}$ | P | P | 3.41 | ${ }_{2}^{2} 1383$ |  | $430-450-430-30$ 450 | D0620 | 4745 |  |  |  |  | 2．70 |
| 21310 | $150-20-10-230$ | $3000-300-2.30-90$ $300-300-300-25$ |  | 4888 | 419.1 | 9 | P | P | 3.56 2.35 | ${ }^{2} 12384$ | （0－40－10－25 | \＄50－430－450－50 | D0sss | 4746 |  |  | P | P |  |
| ${ }_{2} 21312$ | 60－10－20－50 | $3000-300-300-25$ |  |  | 419.8 | L |  | L | 2.73 | 21230 | $80-40-10-25$ | 450－150－450－50 | 120678 | 176.3 | 431.4 | N |  | P | 3.09 |
| 21221 | 40－40－60－20 | 300－300－300－150 | D0379 | 157\％ |  | 2 | 2 |  | 2.88 | ${ }^{2} 1230$ | 40－40－10－100 | 450－430－450－100 | D0860 | ${ }^{1773}$ | ${ }_{431.7}^{431.7}$ | ${ }_{N}^{N}$ | M | P | 3.18 |
| 21313 | 120－40－40－10 | 300－300－300－230 | D038．7 | 4379 |  | 0 |  |  | ${ }_{2}{ }_{2}^{2.62}$ | ${ }^{2} 135$ | 60－10－10－20 $10-20-10-100$ | － $450-450-450-250$ | ${ }^{\text {D } 06 \% 2}$ | 475 | 133.9 |  | P | P | 4 |
|  | 40－20．10．10 | 306 | ${ }^{\text {Den }} 18$ | ${ }^{4578}$ |  | ${ }^{5}$ | M |  | 2.68 | 21387 | 10－10－10－40 | －50－450－20－350 | D060日 | 478 | 433.3 |  |  | 1 | 2.79 |
| 281915 | 40－40－30－20 | 3300 | D0022 | 4580 | 418.5 | L | ， | 1. | 2．65 | ${ }_{2124}^{2124}$ | 5－5－5－5 | 450 | Dooso | 4750.7 | ${ }^{133.6}$ | 3 | 3 | J | 1．76 |
| 21317 | ${ }^{60-40-10-10}$ | 300 | D0024 | 4883 | 419.53 | 0 |  | L | ${ }_{3}{ }^{2} 58$ | （ 21265 | － $20.10-10.10$ | So | D0920 | 4761 | 134.5 | $k$ | K | $J$ | 2.18 |
| ${ }_{21328}$ | $1,0-100-10-5$ $200-20-20-20$ | 300 |  | disn | 419.54 | ${ }_{\text {R }}$ | P | P | 3． 62 | 21267 | $20- \pm 0-20-20$ | 450 | Del 30 | 1763 | 14 | L | $L$ | L | ${ }^{2.78}$ |
| 2131 | 20－150－10－250 | 350－300－150－50 |  | 4804.7 |  |  | F |  | 3.59 | 31268 | 30－15－15－15 | ＋500 | D0140 | 4768． | 44 | L |  | L | 2.48 |
|  | 20－130－10－230 | 330－300－250－30 |  |  |  | 8 |  |  | 3.78 | 21772 | 30－35－10－5 | 150 | D0 150 | 1771 | ＋45 | N | M | $\mathbf{L}$ | 2.70 |
| 2 | lon－60－10－4 | $330-300-300-300$ $350.350 .25-25$ | ${ }^{\text {Xnors }}$ | ${ }_{8} 86075$ |  | ${ }_{\mathbf{K}}$ | K | F | 2.24 | ${ }^{2} 1333$ | 40－10－10－10 | 150 | De160 | 4771.3 |  | 2 | $L$ |  | 11 |
| 21323 | 80－100．80－40 | 3．50－350－200－75 | D07R9．4 |  | 119.67 | 9 |  | F | 3.15 | 21773 | 40－20－10－10 | 5， | D0170 |  |  | L |  |  | 2.42 |
| － | K0－40－20－20 $60-40-60-20$ |  |  | －609 |  | N | M | P | ${ }_{3}^{2.87}$ | ${ }_{21350}$ | 40－40－4．4 | ＋50 | D0172 | 1772 |  |  |  |  | ${ }_{2}$ |
| 边 | $60-10-60-20$ $30-30-50-100$ | $350-350-240-1: 50$ $3500-300-300-75$ | D07 m ． 2 | 411 |  | N |  | $P$ | 3.09 | 1274 | 40－40－20－20 | 150 | D017： | 1773 | 417 | 9 | P | P | 5．24 |
| $\underline{21223}$ | 20－10－3．20 | 350－350－3．30－25 | D0110 | ${ }_{46280}^{463}$ | 418.82 | J | J | ， | 1.82 | k 21391 | 40－40－30－30 $10-40-40-40$ | 450 | D0176 | 1775 <br>  <br> 1775 |  | 9 | ${ }^{\text {P }}$ | P | 3．84 |
| ¢ 217328 | $30-10-5-200$ $40-40-20-20$ | $350-350-350-28$ $3: 50-350-350-25$ | ${ }^{\text {Dot }}$ De43 | 481621.3 | ${ }_{19} 19.3$ | L | L | L | ${ }_{2}^{2.74}$ | ${ }^{211393}$ | 80－20－20－20 | 150 | Do17\％${ }^{\text {d }}$ | 4778 |  | 9 | P | P | 3.33 |
| 21328 | 40－40－30－10 | 250－350－350－25 | D 433 | 4622 46823 |  | I | 1. |  | 2.101 | ${ }_{2}^{21394}{ }^{2} 1393$ | $80-30-10-2$ $80-10-10-10$ | 450 | ${ }^{\text {D0177．}}$ D0178 | 17779 | 149.3 <br> 150 |  |  | L | 3．00 |
| 21328 | $40-40-10-40$ $90-30-5-100$ | $350-350-3.30-25$ $350-350-3: 075$ | D048n |  | 420.29 | L | ${ }_{4}$ | P | ${ }_{3}^{3.06}$ | 21398 | $\frac{8}{80-40-50-80}$ | 473－230－150－50 | D10n9 | 4793 |  | N | M |  | 2．4．4 |
| 21227 | ＋0－40－10－150 | 350－350－350－50 | Docto | 4628 | \＄20．29 | N | F | P | 3．36 | 11275 21397 | $20.40-100.40$ $20.80-20-10$ | $175-300-50-23$ <br> $175-300-300-300$ <br>  <br> 150 | De080 | 4800 |  | L |  |  | 2． 6.2 |
| 21331 21332 | $80-30-30-150$ $70-40-10-50$ | $350-350-350-50$ $350-350-350-58$ |  | ${ }_{4831}^{483 n} 4$ |  |  | $\frac{L}{L}$ |  | 3.24 | ${ }^{2} 11398$ | ${ }^{2} 0.100-10-100$ | ＋ 475 －300－300－25 |  | ${ }_{4802}$ | 451 |  | 8 | L | ${ }_{2} 8.28$ |
| 21333 | $100-10-10=10$ | $\begin{array}{r}350-350-350-50 \\ \hline\end{array}$ | D0473．3 | ${ }_{4632}$ | 120.23 | 1 | M | L | 3.63 | 21399 11400 1 | 20－40－80－100 $10-40-80-100$ | $175-350-200-100$ $175-350-300-100$ | ${ }_{\text {Dopas }}$ | 4802 4802.8 48 | ${ }_{453.4}^{433}$ |  |  | $\stackrel{p}{p}$ | 3．21 |
| ${ }_{21334}^{21334}$ | 100－20－30－20 | $350-350-350-30$ $350-350-350-50$ |  | 463.3 |  |  | M |  | 3.18 | 21400 | 10－140－4－100 | 475－350－350－50 | D0783．4 | 4802.3 |  | 8 | P |  | 3.12 |
| 211239 | 100－40－30－50 | 350．350．350－30 | Donti | 4634. |  | 9 |  |  | 3.05 | 21402 21403 2 | $10-130-20-10$ $30-130-10.10$ | $175-3.00-350-350$ $475-350-350-350$ |  |  |  |  | P |  | 3．33 |
| 21336 | 3n－10－5－100 | 250－350－350－20n | n0116 | 4834.7 | ，3， | K | ．${ }^{\text {R }}$ | K | ${ }_{2}^{2.50}$ | ${ }^{2} 1404$ |  | 175．400－350－50 | ${ }^{\text {D0366 }}$ | $4 \mathrm{P}{ }^{\text {a }}$ | 434.6 | K | K | k | 2． 38 |
| 21337 21330 | $30-20-5-100$ in－ $20-20-10$ | ${ }_{350} 350-350-350-200$ | not18 | 4635 |  | $\pm$ | K | K | 2.38 | 21005 | 5－90－25－5 | 175．600－400－400 |  | 4805.3 |  |  | M |  | 2.97 |
| 21339 | 40－40－40－40 | 330 | De034 | ${ }^{2635.3}$ | 420．38 | ${ }_{N}$ | P | F | 3.38 | ${ }^{2} 149 \%$ | 250－20－20－100 $10-60-30-125$ | （175－930－300－80 |  | 4889 |  |  |  |  | 2.70 3.20 |
| 21340 21341 | 30－60－40－20 | 350 350 |  | 4635. 4635.8 |  |  | P |  | 3.78 4.00 | 21278 | 10．50．30－30 | 15 5 400－430－27 | D07a3．8 | 4 RI 3 | 453 | \％ | L |  | 3．78 |
| 21347 | $90-40-30.30$ $40-120-10.15$ | ${ }^{350}$ |  | ${ }_{6}^{637}$ | 420.41 |  | ${ }_{P}$ | $p$ | 3.47 | （1107 | 10－0．10－100 | 475．e－80－450－50 |  | ${ }^{4814}$ | ＋199 | 1 | ${ }^{\mathbf{K}}$ | K | 2.35 2.38 |
| ${ }_{21143}^{2134}$ | 20－10－10－20 | $400-350-2100-25$ |  | ${ }_{\substack{4652 \\ 4880}}$ |  |  | 3 |  | 186 208 |  | $15-25.80-40$ 10.10 .4040 | － $75.45-300-50$ | costo | 9 917 |  |  | L | L | － 2.18 |
| 2134 | $20-50-40.150$ $10.120-10.150$ | 400－340－350－50 $400-250-250-50$ |  | 4880 | 430.47 | ${ }_{0}^{2}$ | L | $L$ | 3.47 | ${ }^{2} 1809$ | 80.10 .0 .200 .100 $20.100 .10-10$ | 175．－175－150．25 | Detil | 4818 4828 488 | 467 | K | K | K | 2．14， |
| 21346 | 100－10－ $0 \cdot 20$ | $400-400-50-5 n$ | D0875 | 4eas． 3 | 20. | N | M | L | 3.00 |  | $20 \cdot 20-10-10$ $30-30-10-20$ | － 773 －475－4735－300 |  | ${ }_{\text {ckis }}$ |  |  | $\stackrel{5}{M}$ |  |  |
| 21347 12348 | 20－10－20－23 $100-10-20-20$ | 400－400－200－23 $\$ 00-600-350-50$ |  | 46es． |  |  | J |  | 1．21 | 211284 | 20－20．10－10 | 175 | po17e 3 | ${ }^{1832}$ | 47.3 | k | K |  | 2.54 |
| 21345 | 20－10－10．25 | 400－400－400－25 | D0476 |  |  |  |  |  | 1.8 | 1 | － $\begin{aligned} & 20-20-20-20 \\ & 10.20-10-10\end{aligned}$ | ${ }_{4} 175$ | ${ }^{120179.5}$ | 48340 |  | L | $\underline{L}$ | ${ }_{L}^{2}$ | 3.00 <br> 3.00 <br>  |
| ¢ | $80-40-10.20$ $80.40-10-100$ | $460-400 \cdot 1000-23$ $4000-400-400-200$ |  | 69 |  | ${ }_{N}$ | P |  | 3．12 | ${ }^{2} 1110$ | 30－10－150－30 | 500－40－50－50 | D09\％8 | 4917 |  | L | L |  | 2.47 |
| （ 21357 | $80 \cdot 40-10.100$ $80-60.30-10$ | $400-400-400-200$ $400.400 \cdot 400-25$ | ${ }_{\text {Deaty }}$ |  | $121.6^{\circ}$ | Q |  | P | 3．70 | 21411 | ${ }^{10-10-4.20} 1000$ | $300-300-300-23$ $500-300-300-23$ |  |  |  | ${ }^{\text {J }}$ |  |  | ［1．70 |
| 281330 | －90．－20－10－30 | a 400.4000 .400 .50 $400.400-400.350$ |  | ${ }^{86870.7}$ |  |  | P | － | 3.18 | 2143 | ${ }_{\substack{\text { 20－80－} 20-10}}$ | 500－300－300－300 | D0698 |  |  | ＋ |  |  |  |
| ［ ${ }_{2}^{11360}$ | $8 \mathrm{yo-40-30-4}$ | 400－400－400．350 |  | 4877 4674 |  | $\stackrel{9}{N}$ | P |  | 3.47 | 21414 | 20．20－10－10 | 500－500－500－300 | Des90 |  |  | K |  |  | 2339 |
| 2 | － $\begin{aligned} & 30-40-30-20 \\ & 80-20-10-10\end{aligned}$ |  | 110050 | 4674 |  |  | P |  | 2.89 <br> 3.09 <br> 2141816 <br> 21417 |  |  | ${ }_{500}^{500-300-500-300}$ | Dorpe | ， |  |  |  |  | 3.30 2.05 |
| \％ | ${ }^{80-2 J-10-10}$ |  |  |  | 4282．${ }^{4}$ | $\frac{\mathbf{L}}{\mathbf{0}}$ | $\begin{aligned} & \mathbf{P} \\ & \mathbf{L} \\ & \mathbf{L} \\ & \mathbf{L} \\ & \mathbf{L} \end{aligned}$ |  |  |  | 40－40－8．8 | 300 | D0185 | 1 | 49.3 |  | P | $P$ | 3.35 |
| （ 21364 | 80－80－20－30 $80-80-40-20$ | － $50-250-850-150$ | D0i83． 2 |  |  |  |  | F | － 2.83 | MOUNTING PLATES FOR TWIST PRONG CAPACITORS |  |  |  |  |  |  |  |  |  |
| 21366 | 10－10 ${ }^{\text {che }} 10-100$ |  |  |  |  |  |  |  | 271 |  |  |  |  |  |  |  |  |  |  |
| 21236 | 85－100－10－30 |  |  |  |  |  |  |  | 3． 12 | For | －diameter | cans： $21350-8$ | kelle $z$ | 1381 Me |  |  |  |  | 34 |
| 21237 11238 | $40.40-40-20$ $10-100-20-20$ |  | Dots3 |  | 3 x | 1 |  |  | 2．89 | For 1 | －a．diameter diamer | cans：${ }^{\text {cans：}} \mathbf{2 1 3 5 4 - B}$ | kelle | 1355．Me |  |  | Net |  |  |

## CENTRALAB CERAMIC CAPACITORS

## CERAMIC DISCS

CRL ID

## CENTRALAB DD DISC CERAMIC CAPACITORS

Ideal for tr-pass coupling in high frequency dirculis 303. QD-403, DD-503 which ore 600 VDC working. Toler-
 dlam. Áv. shog. wr., 2 az



CRL DD-16 1600 WVDC CERAMIC DISCS All toleronce GMV except DDI6-153 is $+80.20 \%$. Av. shog. wt. 202.

|  | $\begin{gathered} \text { capacity } \\ \hline \end{gathered}$ |  | NET PRICE |  |  | $800-$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| 00.6.302 | 1173 | 21 | 166 | 14 | .078 | 074 |
| D016 402 | [...is | 21 | 166 | 14 | D32 | . 077 |
| -016.302 | 00.3 | 21 | 166 | 14 | 032 | . 077 |
| D016.602 | ¢06 | . 21 | 166 | 14 | .002 | . 077 |
| 0016.702 | (10): | . 21 | 166 | 14 | .082 | . 077 |
| 0016.752 | -10\% | . 21 | 166 | 14 | $\mathrm{DES}_{2}$ | . 077 |
| 0016.892 | -144 | 21 | . 156 | 14 | $00^{2}$ | . 077 |
| 0016 203 | (1) | 21 | . 186 | 14 | ose | . 083 |
| D016.153 | .115 | 35 | 385 | 24 | 152 | . 143 |
|  | CRL | DD | 0 | 000 |  |  |

DISC CERAMICS
 $0030.6 R G$
$0030.8 R 2$
$0030-100$
$0030-120$ $0.30-100$
$0030-120$
$0030-130$ $0030-130$
$0030-220$
$0030-250$
0030.250 D030
D030-
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0030.330
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$0030-730$ 0030
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0030.681
0030.751
0030.821
0030.102

| D030.621 |
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| D030.102 |
| D030.122 |
| D030.152 |
| 03301 |

D030-152
D030-202
D030-212
$D 030.252$
NN

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| . 24 |  | .16 | ${ }^{\text {or }}$ | ${ }^{\circ 68}$ |
| , 24 | 19 | 116 | :072 | ${ }^{\circ} 88$ |
| 24, | 19 | 18 | :072 | \%o68 |
| ${ }_{24}^{24}$ | ${ }^{19}$ | $1{ }^{16}$ | 972 | 088 |
| 2i4 | 19 | $1{ }^{16}$ | -072 | \% 08 |
| 24 | 19 | $1{ }^{16}$ | -or2 | O68. |
| cis | 19 | 116 | -072 | 边 |
| - | 19 | 116 | (or | - |
| 24 | if | 126 | :072 | ${ }^{688}$ |
| 484 | 19 |  | :072 | \%88 |
| : | 18 | 16. | -87\% | \%i |
| A | 19 | 12 | \%or | \% |
|  | 19 | 16 |  | \%88 |
|  | 19 | $1{ }^{16}$ | \%os | -83 |
|  | -19 | 16 | \%os | an |
|  | -19 | -16 |  | - |
|  | ${ }^{19}$ | ${ }_{16} 16$ | - $10 \%$ | ${ }^{0}$ |
|  | 19 | 16 | - | (in |
| 24, | $1{ }^{19}$ | $1{ }^{16}$ | -070 | ord |
| 24 | 19 | $1{ }^{16}$ | \%oid | - |
| 24 | 1.19 | $1{ }_{16} 1$ |  |  |
| 29 | ${ }_{2}^{237}$ | ${ }_{20}^{20}$ | \%\% | \%oi |
| 边 29 | (237 | co | \%9\% | O84 |

Q

## CRL DD60-6000 WVDC

 DISC CERAMICS
## CERAMIC FEED-THRU <br> HI-KAPS

100 . 250


Roted 500 VOCW, 1000 VOC test. Type FT, bushing let a. $\pm 20 \%$ except which is $-20+50 \%$. 1 is $\pm 10 \%$


[^4][^5]
## CENTRALAB CERAMIC CAPACITORS


TYPE 820 Conveniently mounted，wide copacity ronge clear \＃4 machine sciews．Size： $8 / /^{\circ}$ n $27 / 32^{\prime \prime}$ ．Shpg．


TYPE 822 TI IMMER Types with $N$ indicate negotive tom base．Roled 800 VDCW．Shog


TYPE 823 TQIMMER Steatite body Irimmers．Roting 600 vOCW， 1200 VDC test．All or
neg． 850 T．C．Shpg．wt． 3 oz．

## 

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E23．AN＂ | $\begin{aligned} & 241.123 \\ & 12.60 \end{aligned}$ | $\begin{aligned} & 2.06 \\ & 2.06 \end{aligned}$ | $\begin{aligned} & 1.85 \\ & 1.65 \end{aligned}$ | \＄1．65 | 1.65 | $\begin{aligned} & 1.43 \\ & 184 \end{aligned}$ |
| －23－EN＊ | 11．14） | 2.08 | 1.65 | 1.65 | 1.65 | 1.43 |
| －23．02 | 11.50 | 2.08 | 1.65 | 1.65 | 1.65 | 1.43 |
| 23．0M0 | H． 50 | 2.06 | 3.65 | 1.65 | 1.65 | 1.43 |
| 到3－0z | 4．25 | 2.06 | 1.69 | 1.65 | 1.63 | 1.43 |
| 833－EM＊ | N． 25 | 2.08 | 1.65 | 1.65 | 1.65 | 1.43 |
| E23－E2 | 5.12 | 2.08 | 1.65 | 1.65 | 1.65 | 1.43 |
| ¢23．FN＊ | 5.15 | 2.08 | 1．6s | 1.65 | 1.65 | 4 |

TYPE 827 TRIMMER Ceromis molded phenolic body．Roted ot 600 VDCW ．Power foctor is less thon $.2 \%$ of 1 mc

TYPE 833 TRIMMED Units with opproved per MIt．C．
日iA．Units with mode to meet Mil．C．Bla．Approvol pending．Steotlite－body frimmers．Sliver rotor ond stotor plotes． 600 VDCW， 1200 VDC test．4－1／64＂ $27 / 32^{\prime \prime}$ ．Alt Units have zero te


| Part NO | $\begin{gathered} \text { CAPACITY } \\ \text { MmF } \end{gathered}$ | $1-24$ | 25－99 | $\begin{gathered} \text { NT F } \\ 200 . \\ 249 \end{gathered}$ | $\begin{aligned} & \text { CE } \\ & 250 . \\ & 599 \end{aligned}$ | $\begin{array}{r} 500 \\ 999 \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06．151 | 1．511 | 15 | ．119 | 10 | 059 | ．054 |
| pe． 131 | 1910 | ． 15 | 119 | 10 | 065 | 062 |
| －6－201 | 2018 | －15 | 119 | 10 | 066 | 062 |
| 06－221 | 22011 | ． 15 | 119 | 10 | 058 | ． 054 |
| D6．231 | 23910 | ． 15 | ． 119 | ． 10 | D66 | ． 062 |
| D6－273 | 2711 | ． 15 | ． 119 | 10 | ． 66 | ． 062 |
| O8．301 | ：1171 | ． 15 | 119 | ． 20 | 066 | ． 062 |
|  | ： | －15 | 119 | －10 | $\begin{array}{r}\text { ．D5 } \\ \text {－} 69 \\ \hline\end{array}$ | .054 .065 |
| －6．391 | ：417\％， | $\begin{array}{r}\text { a } \\ \hline 15 \\ \hline 15\end{array}$ | 119 119 | ＋10 | ． $\mathrm{D69}$－ | ． 065 |
| －6．472 | 1741 | ． 15 | 119 | .10 | D61 | ． 065 |
| －6．501 | 大\％＊ | is | 119 | .10 | 061 | ． 057 |
| D6．561 | 3 ¢ ${ }^{\text {an }}$ | ． 15 | 119 | .10 | ． 061 | DS7 |
| D6－601 | ${ }^{\text {atw }}$ | 15 | 119 | .10 | ． 069 | ． 053 |
| p6．641． | AKO, | 15 | 119 129 | ． 10 | ． 06.1 | ．057 |
| P6．733： | 73014 | 15 | 129 119 | －10 | ． 04.4 | －043 |
| D6．1020 | ItMou | 15 | ． 119 | $1{ }^{10}$ | －04H | O45 |
| D6．922＊ | － | 15 | 119 | ． 20 | ．648 | ．045 |
| O6－132． | ｜ 3 ¢ 61 | 15 | 119 | ． 10 | ．04n | ． 045 |
| D6 152： | $\mid$｜rimi | 15 | 119 | ． 10 | ．04m | ． 045 |
| D6．202． | －1，761 | ． 15 | ． 119 | ． 10 | －D4 ${ }^{\text {H }}$ | ．045 |
| D6．222＊ | \％ 2 （6） | ． 15 | ． 119 | ． 10 | ．048 | ． 045 |
| 06．252 | 2Sth1 | 15 | ． 119 | ． 10 | ． 050 | ．047 |
| O6．272 | \％70¢ | ． 15 | 119 | 10 | ． 050 | ．047 |
| 06．302 ${ }^{06}$ | \％108以 | ． 15 | 1189 .119 | 10 | ． 080 | Dat |
| －6．402 |  | ． 13 | 129 .819 | 10 | ． 0543 | O41 |
| 06.4721 | $47 \mathrm{Pra1}$ | 15 | － 119 | －10 | ．043 | ． 048 |
| －6－502 | S1401 | ． 15 | ． 119 | ． 18 | ． 080 | ． 047 |
| －6． 562 | Shalim | ． 32 | －262 | ． 22 | －152 | 143 |
| 06.682 06.732 |  | ． 32 | － 262 | ． 22 | －152 | 143 |
| 06．303 | 7301 | －32 | .262 .262 | ． 222 | －152 | 143 143 |

Designed to meet the demonds for high copocity－low valt

## E

## TYPE DA

PLATE CAPACITORS
$20 \%$ ．Shpg．wit．$i^{3}$



TYPE DDA
DISC CAPACITORS
Size $3 /{ }^{\prime \prime}$ dibmefer． 75 VDCW－1 30VDC test， $101 .+80.30 \%$ ． Shpg．wt．， 208.


| NO． | MMF． | 1.24 | 25.99 | $100-249$ | $250-499$ | 999 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $00 A-503$ | .11 | .29 | .238 | .20 | .109 | .112 |
| OOA．104 | 1 | .53 | .428 | .36 | .224 | .210 |

## Fी TYPE DM MIN－KAPS

Miniolure plote copocitors $17 / 32^{\prime \prime}$ lang， $7 / 32^{\prime \prime}$ wide， $7 / 64^{\prime \prime}$ thick．Triple Durez insuloled．Stamped with copoc ity． 150 VOCW．300VDCI
others or $+80.20 \%$ ．Shpg．wt．，loz．


 TUBULAR CAPACITORS
Oesigned especiolly to limit frequency drift in r．f．circuits where temperature vario：ions are prevalont．These capoci－
tors ore constructed with a ceramie body which changes capocities os the temperafure vories． 1,200 valls DC test； 600 volts DC warking．All ore mode to comply with the JAN．C－20A specticotions．Entremely compact．Sizes：（A）
$.400^{\circ} \times .200^{\circ \prime}(\mathrm{B}) .690^{\circ} \times .200^{\circ}$（C） $.880^{\circ \prime} \times .225^{\circ}$（D）

|  | TCZ－NPO NEGATIVE－ POSITIVE－ZERO |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
|  | amp． |  |  |  | \％ | \％0． |  |
| $\xrightarrow{\text { Tcectins }}$ | ${ }^{8}$ | $\hat{\lambda}$ | 20 | ${ }^{238}$ | 20 | O88 | ${ }^{053}$ |
| Ter－1 |  | $\hat{\lambda}$ | ${ }_{20}$ |  |  | Os8 |  |
|  | 1.8 | $\hat{\wedge}$ | ${ }^{20}$ |  |  | O88 |  |
| Tex | 2.2 | $\hat{\lambda}$ | ． 20 | ． 238 |  | 038 | ．03 |
| － | 8.8 | $\hat{\lambda}$ | －20 | 2306 | 20 | －308 | \％ |
| $\xrightarrow{\text { rece }}$ | ${ }_{12}^{10}$ | $\hat{\lambda}$ | ${ }^{20}$ | ${ }_{238}^{238}$ | 20 | 122 | （022 |
| cotictis | ${ }^{18}$ | $\hat{\wedge}$ | －20 | －238 |  | 128 | 1200 |
| Tc1．22 | ${ }_{\substack{20 \\ 20}}$ | $\hat{\lambda}$ | 20 |  |  | 122 | ${ }^{136}$ |
|  | ${ }_{25}^{22}$ | $\hat{\lambda}$ | ：20 | 2336 |  | 102 | 100 |
|  | － | $\hat{\lambda}$ | 20 | 2336 |  | 18 | ${ }^{10}$ |
| cick |  | $\hat{\hat{\wedge}}$ | － | 238 |  | 107 | 120 |
|  | ${ }_{\substack{3 \\ 83 \\ 87}}$ | $\hat{h}$ | ． 20 | －230 |  | 107 | 101 |
| cesisi | 80 |  | 20 | －238 |  | －107 | 1201 |
| （ictesi | － |  | －20 | 2038 |  | 107 | 101 |
|  | ${ }_{\substack{\text { ma } \\ 88 \\ 88}}$ | 8 | － | ${ }^{238}$ |  | 113 | \％ |
|  | ${ }_{\text {c }}^{\substack{73 \\ 8 .}}$ | 8 | －20 | ， 2313 |  | 113 | 108 |
|  | － | ${ }_{\mathbf{c}}^{\mathbf{c}}$ | － 20 | －236 |  | 118 | 108 |
| recter |  | \％ | $\because$ |  |  | 202 | 18 |
| － | ${ }^{138}$ | D | $\because$ | －385 |  | 202 | 188 |
| Ticzitio | 1200 | \％ | ． 38 | －477 |  | cien | 208 |
| ciction |  | D | 30 | － $77^{7}$ |  | － 28 | \％ |
|  |  |  |  |  |  |  | 208 |
|  |  |  |  |  |  |  |  |

## TYPE TCN－NEGATIVE（N7SO）

Tateronce ds follows， $3.3-10$ ore $\pm .5 \mathrm{mmf}, 12-100$ ore $\pm 2 \%, 110.750$ ore $\pm 5 \%$ ．net phice

| $\begin{aligned} & \text { Part } \\ & \text { NO. } \end{aligned}$ | CAPACITY｜ | size | 1.24 | $\begin{aligned} & 250 \\ & 90 \end{aligned}$ | $100 .$ | $\begin{aligned} & 230 . \\ & 499 \end{aligned}$ | $\begin{aligned} & 500 \\ & \\ & \hline 90 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TCN． 3 H | 3.3 | A | ．28 | ． 238 | 20 | ． 050 | ．047 |
| TEN． | 5 | A | ． 29 | ．238 | ． 20 | ． 050 | ． 047 |
| TCM－10 | 10 | A | 28 | ． 231 | ． 20 | ．088 | ．082 |
| Ten－12 | 12 | A | ． 28 | ． 238 | ． 20 | ． 123 | ． 120 |
| TEN－18 | 15 | A | ． 29 | 238 | ． 20 | 128 | .120 |
| TEN．18 | 18 | A | ． 20 | 238 | ． 20 | 115 | ．10n |
| TCN－20 | 20 | A | ． 28 | ．23： | ． 20 | .122 | ． 114 |
| TEN－22 | 22 | A | ． 28 | ．238 | ． 20 | ． 102 | ．Des |
| TEN－24 | 24 | A | ． 28 | ． 238 | ． 20 | ． 102 | ．08 |
| TCN－25 | 25 | A | ．29 | ．23E | ． 20 | .102 | ．0es |
| TCN－27 | 27 | A | ． 28 | ． 238 | ． 20 | ． 102 | ．098 |
| TCN． 30 | 30 | A | ． $2 \cdot$ | ． 233 | ． 20 | ． 102 | ．006 |
| TCN－33 | 33 | A | ． 29 | 230 | ． 20 | .102 | ． 006 |
| TCN－38 | $3{ }^{3}$ | A | ． 29 | 238 | ． 20 | ． 102 | ．008 |
| TCN－30 | 38 | A | 29 | 238 | ． 20 | ． 102 | ．006 |
| TCN－43 | 4.3 | A | ． 20 | ． 238 | ． 20 | ． 102 | ．0＊＊ |
| TEN－47 | 47 | A | 29 | 238 | ． 20 | ． 102 | ． 098 |
| TCN－30 | so | A | ． 29 | 238 | ． 20 | ． 102 | ．0\％ |
| TCN－SI | 51 | A | ． 29 | ．236 | ． 20 | ． 102 | ． 098 |
| TEN－S6 | 56 | A | ． 20 | ． 238 | ． 20 | ． 102 | ．n98 |
| TCN．${ }^{\text {ch }}$ | ＊ | A | ．28 | 238 | ． 20 | ． 102 | ．006 |
| TCN－6E | 8＊ | A | ． 20 | ．230 | ． 20 | ． 107 | ． 104 |
| TEN－75 | 75 | A | ． 28 | ．238 | ． 20 | ． 107 | ． 101 |
| TCN－E2 | 83 | A | ． 26 | ． 238 | ． 20 | ． 107 | ． 101 |
| TCN－1 | 91 | $\wedge$ | ． 21 | ． 230 | .20 | ． 107 | ． 101 |
| Tem－100 | 100 | A | ． 29 | ． 238 | ． 20 | ． 107 | ． 101 |
| TCN－110 | 110 | ． | ． 28 | 238 | ． 20 | ．0ss | ． 054 |
| TCN－ 120 | 120 | B | ．29 | ．238 | ． 20 | ．036 | ．054 |
| TCN． 130 | 136 | 8 | ． 29 | 231 | ． 20 | ．0s＊ | ．086 |
| TCN－ 350 | 1.50 | R | ． 26 | 236 | ． 20 | ．058 | ．0s4 |
| TCN－160 | 180 | H | ． 20 | ．23＊ | ． 20 | ． 058 | ． 054 |
| TEN－180 | 180 | B | 29 | 238 | ． 20 | Dse | ． 054 |
| TCN－200 | 200 | ， | ． 26 | 238 | ． 20 | ．0s8 | ．0s＊ |
| TEM－220 | 220 | C | ． 29 | ． 238 | ． 20 | ．0s8 | ．084 |
| TCN－240 | 240 | c | ． 28 | ．210 | ． 20 | ．05s | ． 054 |
| TEN－270 | 270 | C | ． 29 | ．230 | ． 20 | ．058 | ． 054 |
| TEN－300 | 300 | n | ． 44 | ． 356 | ． 30 | ． 202 | ．180 |
| TEN－330 | 3.3 | D | ． 44 | ．356 | ． 30 | ． 202 | 180 |
| TCN－360 | 380 | D | ． 44 | ． 354 | ． 30 | 202 | ．100 |
| TCN－390 | 300 | D | ． 44 | ． 338 | ． 30 | ． 202 | ．180 |
| TEN－30 | 4.20 | 0 | ． 44 | 354 | ． 30 | ． 202 | ．120 |
| TCN－ 70 | 470 | t | ． 58 | －475 | ． 10 | ． 202 | 200 |
| TEN－510 | 510 | D | ． 8 | －475 | ． 40 | －292 | 269 |
| TCN－560 | 360 | D | ． 5 | －475 | ． 40 | ． 2.2 | ． 26 |
| TCN－30 | 420 | E： | ． 59 | －475 | ． 40 | ． 282 | ． 288 |
| TEN－Co | 480 | F | 50 | －673 | ． 0 | ．2E2 | ． 2.6 |
| TCN－750 | 750 | k | S | 475 | ． 40 |  |  |

## TEXAS INSTRUMENT SOLID TANTALUM ELECTROLYTIC CAPACITORS



# MALLORY TANTALUM CAPACITORS 


type tap silveriytic
Double reoled. Tomp. ronge: $-55^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$. Tol. $-15 \% 10+75 \%$ Sizes 7/32x \% (Dio Xt). Av.wt., 2 azs.

| TYPE | MFD | VOC | TYPE | MFD | VOC |
| :--- | ---: | :---: | :---: | :---: | :---: |
| TAP $90-2$ | 2 | 90 | TAP $25-10$ | 10 | 25 |
| TAP 75-3.5 | 3.5 | 75 | TAP $20-12$ | 12 | 20 |
| TAP $60-4$ | 4 | 60 | TAP $15-15$ | 15 | 15 |
| TAP 50.5 | 5 | 50 | TAP $10-20$ | 20 | 10 |
| TAP $40-6$ | 6 | 40 | TAP $6-30$ | 30 | 6 |
| TAP $30-8$ | 8 | 30 |  |  |  |
| I-24, EACH |  |  |  |  |  |
| 25-49, EACH |  |  |  |  |  |

## TYPE TAP- 2

Some os TAP, excepl Will Poss 2000 cycle $15 G$ MIL.C. 39658 Vibration requitement. Max. length .000. Av. shog. wt., 5 oz.

| TYPE | MFD | VOC | TYPE | MPO |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TAP217.90 | 8 | 11 | 1A1240.50 | 30 | 40 |
| TAP215-75 | 75 | 15 | TAP270-15 | 15 | 70 |
| TAP220-60 | 80 | 20 | TAP2 100-30 | 10 | 100 |
| TAP225-50 | 50 | 25 | TAP2140-6 | 6 | 140 |
| TAP 230-40 | 40 | 30 |  |  |  |
| $1-24$ EACH  <br> $25-1 . . . . . . . . . . . ~$ 3.92 |  |  | $\begin{array}{ll} 50-99 \text { EACH } & \\ 100.249 \text { EACH } & 2.74 \\ \hline . . . & 2.35 \end{array}$ |  |  |
|  |  |  |  |  |  |

## M2 HIGH TEMPERATURE CAPACITORS

The $\mathrm{M2}$ is interchongecble with other units now in Use, ond affers many advontoges. FEATU若ES: Operating tem-perature-Up to $150^{\circ} \mathrm{C}$. Smoller bodys 287 moximum. cal (glassto-metal)-no leatage of electralyte.

| Mart No. | VDC Worth Voltage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  |  | $85^{\circ} \mathrm{C}$ | $125^{\circ} \mathrm{C}$ | $150^{\circ} \mathrm{C}$ |
| M2-11 |  | 00 | 80 | 75 |
| M2-15 | 15 | 75 | 67 | 62 |
| M2-20 | 20 | 60 | 50 | 48 |
| M2-25 | 25 | 50 | 42 | 40 |
| M2-40 | 40 | 30 | 25 | 23 |
| M2-70 | 70 | 15 | 13 | 12 |
| M2-100 | 100 | 10 | 8 | 7 |
| M2-140 | 140 | 6 | 5 | 4 |

## TYPE HAT

The smallest tontalum sintered peliet anode copacifors mode. Designed primarily for hearing aids and other micraminiature rronsistor circuitry. Offers law power faciar and leakoge current of less thon $1.0 \mu 0$. Leods ore welded and posifive lead is supported by a plastic end seal. Axial loods terminols. Temperalure ronge: $-20^{\circ}$ 10 $85^{\circ} \mathrm{C}$. Sirea length-. $210^{\circ}$ mox-. diameter $-.075^{\circ \prime}$ mox. Calor coded epozy resin seol. Av. shpg, wh., 1 os.

|  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | Mfd | W.V. | 1.24 |  | $25-49$ | $50-99$ |
| HAT2-8 | 2 | 8 | 1.02 | .90 | .79 | .675 |
| HAT4-4 | 4 | 4 | 1.02 | .90 | .79 | .675 |
| HAT8-2 | 8 | 2 | 1.02 | .90 | .79 | .675 |
| HAT10-1 | 10 | 1 | 1.02 | .90 | .79 | 675 |

## TYPE TMT CAPACITORS

Miniofurized. Withstonds rugged environmental condi-

tions. Size- $1 / 2 \times 145$ llengh $\quad$ Dio.] Av, shog. wi., 2 oz. | TYPE | MFD | VDC |
| :---: | :---: | :---: |
| TNT 8-50 | 8 | 50 |
| TNT $15-30$ | 15 | 30 |
| TNT $25-15$ | 25 | 15 |
| TNT $50-6$ | 50 | 6 |
| TNT 80-3 | 80 | 3 |

$\begin{array}{llll}1-24, \text { EACH } & 2.00 & 25.49, \text { EACH } \\ 50.99, \text { EACH } & 1.40 & 100.249, \text { EACH } & . . . .1 .20\end{array}$

## TAN-SOL SOLID ELECTROLYTICS

XI TYPE TANTALUM CAPACITOAS
Rugged, hermetically sealed electrolytic copacitors. Wide Remperature ronge $-55^{\circ} \mathrm{C}$ to $+200^{\circ} \mathrm{C}$. Withatond 100 hre. of $20 \%$ solt sproy at $95^{\circ} \mathrm{F}$ without hermful cor where. $D C$ volts ore rated of $175^{\circ} \mathrm{C}$. For ratings o $85^{\circ} \mathrm{C}$, increas. VDC rotings of $175^{\circ} \mathrm{C}$ by $50 \%$. W1., 4 az

| IPPE | mat | V.D.C. | max. Omms |  | H.F. <br> (in) | HET EACH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | ESt | 1 IIP |  | 1.24 | 50.99 |
| XTL 120 | 120 | 12 | 2.8 | 45 | 1/2 | B.35 | 10 |
| KTM 210 | 240 | 13 | 2.5 | 33 | 11/16 |  | 3.43 |
| KTHS 240 | 240 | 12 | 2.5 | 35 | 11/10 | 10.15 |  |
| XTL 78 | 73 | 20 | 2.7 | 30 | 1/2 | E. 55 |  |
| XTH 250 | 150 | 20 | 2.7 | 40 | 11/10 |  |  |
| XTL 40 | 40 | 38 | 2.7 | 75 | 1/2 | 2.53 | . 30 |
| XTLS 60 | 40 | 38 | 2.7 | 73 | 1/2 | 6.90 | 7.15 |
| XT4.40a | 40 | 38 | 2.7 | 75 | $1 / 2$ | 8.60 |  |
| גTM Bo | 9 | 38 | 2.7 | 30 | 11/1* | 9.90 | 0.48 |
| XTL 25 | 23 | 60 | 2.7 | 100 | 1/2 | 8. 53 | 7.30 |
| xrm so | so | 60 | 2.7 | 70 | 11/16 | -. 20 | - 4.45 |
| XTL 12 | 12 | 120 | 5.6 | 200 | 27/32 | 13.30 | 11.70 |
| xTls 12 | 12 | 120 | 5.6 | 200 | 27/32 | 13.85 | 12.05 |
| XTH 25 | 25 | 120 | 5.3 | 140 | 1.1) | 13.60 | 13. |
| xTL | 8 | 180 | 8.3 | 300 | 1.3/16 | 19.00 | 16.60 |
| XTL A | . | 180 | R. 3 | 300 | 1.3/18 | 19.05 | 16.65 |
| XTM ${ }^{16}$ | 18 | 180 | 8.3 | 210 | 1.13/16 | 22.10 | 18.10 |
| XTL ${ }^{\text {c }}$ | - | 240 | 11 | 400 | 1.17/32 | 23.45 | 20.70 |
| $x 76{ }^{\text {x }}$ | - | 240 | 11 | 400 | 1.17/32 | 24.20 | 21.08 |
| XTL 6A | - | $2 s 0$ | 11 | 400 | 1.17/32 | 23.90 |  |
| XTM 12 | 12 | 240 | 11 | 280 | 2.3/8 | 28.70 | 24.80 |
| KTMs ${ }^{12}$ | 12 | 240 | 11 | 280 | 2.3/8 | 29.09 | 29.15 |
| ETM 12A | 12 | 240 | 11 | 280 | 2.3/8 | 28.75 | 24.85 |
| STL 5 |  | 306 | 13 | 500 | 1.29/32 | 29.65 |  |
| MTM 20 | 10 | 300 | 13 | 350 | 2.15114 | 35.70 | 31.00 |
| XTL ${ }^{\text {4 }}$ | 4 | 380 | 16.6 | 800 | 2.1/4 | 36.30 | 31.70 |
| XTM | N | 380 | 16.6 | 420 | 3.112 | 42.60 | ${ }^{36.00}$ |
| $\mathrm{xTH}^{\text {84, }}$ |  | 300 | ${ }^{16.6}$ | 420 <br> 700 | ${ }_{2}^{3.1 / 2}$ | ${ }_{+}+2.68$ |  |
| KTL 3.3 <br> KTH > | 3.5 | 420 | 18.9 <br> 18.8 | $\begin{aligned} & 700 \\ & 400 \\ & \hline 00 \end{aligned}$ | $\begin{gathered} 2.14 / 32 \\ 5 \cdot 1 / 16 \end{gathered}$ | 41.70 49.70 | $\begin{array}{r} 38.20 \\ 43.00 \end{array}$ |

For scrow terminol ond nut-add " 5 " to part number and odd: $\mathbf{3 0 . 6 5 \text { eoch }}$
For $\mathbf{1 0 0 \%}$ environmental testing add $\$ 1.55$ each
Prices ore for $175^{\circ} \mathrm{C}$ max. For $200^{\circ} \mathrm{C}$ roting add " $X$ ' 10 port number and add $10 \%$ to bose price.
Cothode tob supplied free-add "A" to polt number

## TYPE XTV

The mollory Type XTV is a new copactior designed for that applicotions requiring severol hundred mfd. One single mallory XTV capocifor will do the job which farm. - ily requiriod many parallal law capacily fail types. This new copocitar design can operate of extromely high alth. tudes without danger. Specifications: Case Sizes $1 \%$ Diam. True hermetic glass-ta-motal seol. Slanderd Co. pacity Tolerance: $-15 \%$ to $+30 \%$.


IYPE STNT TANTALUM CAPACITOR
Subminiatured, has a sintored pellet anode. Temp. Ronge

| IPPE | mio | voc | TYPE | MFO | Voc |
| :---: | :---: | :---: | :---: | :---: | :---: |
| STNT 2-50 | 2 | 50 | STNT 12-15 | 12 | 15 |
| STNT 4.50 | 4 | 50 | STNT 25-6 | 25 | 6 |
| STNT 6-35 | 6 | 35 | STNT 40-3 | 40 | 3 |
| $\begin{aligned} & 1.24, \mathrm{EACH} \\ & 50.99, \text { EACH } \end{aligned}$ |  | $\begin{aligned} & 1.97 \\ & 1.38 \end{aligned}$ | $\begin{aligned} & 25.49 . \text { EACH } \\ & 100.249 \text {. EACH } \end{aligned}$ |  | 1.58 |
|  |  | 1.19 |  |  |

## TYPE TAS

The TAS has a sintered tontalum pellet onade and a solid electrolyte that is not subject to corrosion or look. age. Hermatic glass-to-metal seal. Ideal for use in miniafurized military ond computer equipment, portable tosi aquipment, ransisforized rodios, recorders, etc., where spoce sall tost of 3 low for 30 axo leods will wim stand o pull hest of 3 lbs for 30 seconds. Oulstonding cellent moisturs and high frequency vibrotion resistonce. cellent moisture ond high frequency vibrotion resistonce.
Temp ronge $-80^{\circ}$ to $+85^{\circ} \mathrm{C}$. TAS cose size: $\mathrm{A}-125^{\circ \prime}$. 250", B. 175" ×.325": C. $175^{\prime \prime} \times .438^{\prime \prime} ;$ D..313" $.438^{\prime \prime} ;$ E. $313^{\prime \prime}=.625^{\prime \prime}$. Av. shpg. wt., 4 oz. soch.

| trpe | MFO |  |  | 1.34 | 75-99 | so-n | 100.249 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TAS P13.6 | 33 | ${ }^{6}$ | A | 52.97 | \$1.70 | 31.28 | 31.02 |
| TAS P33-10 | . 33 | 10 | A | 2.97 | 1.70 | 1.28 | 1.02 |
| TAS P33-15 | :33 | 15 | A | 2.97 | 1.70 | 1.28 | 1.02 |
| TASP33.2s | . 33 | 25 | A | 2.97 2.97 | 1.70 | 1.28 | 1.02 |
| TAS.p33-35 | 33 | 35 | 4 | 2.97 | 1.70 | 1.28 | 1.02 |
| Tas Pate | . 47 | ${ }^{\text {B }}$ | A | 2.97 | 1.70 | 1.28 | 1.02 |
| Tas ph7. 10 | 17 | 11 | $\wedge$ | 2.97 | 1.70 | 1.28 | 1.02 |
| TAS \$47.19 | 47 | 15 | A | 2.97 | 1.70 | 1.28 | 1.02 |
| tas pat. 25 | 47 | 25 | A | 2.97 | 1.70 | 1.28 | 1.02 |
| TAS P47.35 | 47 | 35 | $\wedge$ | 2.97 | 1.70 | 1.20 | 1.02 |
| Tas \#6ab | 68 | ${ }^{6}$ | A | 2.97 | 1.70 | 1.28 | 1.02 |
| TAS P5E.10 | 68 | 10 | A | 2.97 | 1.70 | 1.28 | 4.02 |
| tas mege 15 | ค8 | 18 | A | 2.97 | 170 | 1.28 | 1.02 |
| TAS P6s. 29 | ${ }^{\text {an }}$ | 25 | A | 2.97 | 1. ${ }^{\circ}$ | 1.28 | 1.02 |
| tas pes. 35 | nh | 35 | A | 2.97 | 1.. 0 | 1.28 | 1.02 |
| TAs 1-4 | 1.0 | $\bullet$ | 1 | 2.97 | 1.70 | 1.28 | 1.02 |
| TAS 1.10 | 1.0 | 10 | $\hat{A}$ | 2.97 | 1.76 | 1.28 | 3.02 |
| TAs 2.15 | 1.0 | 15 | A | 2.97 | 1.70 | 1.28 | 1.02 |
| TAS 2.25 | 1.0 | 25 | $\wedge$ | 2.97 | 1.70 | 1.28 | 1.02 |
| Tas 1.35 | 1.0 | 35 |  | 2.57 | 1.70 | 1.28 | 1.02 |
| TASips. 6 | 1.5 | ${ }^{6}$ | A | 2.97 | 1.70 | 1.28 | 1.02 |
| Fasips.10 | 1.3 | 10 | A | 2.97 | 1.70 | 1.28 | 1.02 |
| TASIPS.1s | 1.5 | 15 | A | 2.97 | 1.70 | 1.28 | 1.02 |
| TA51ps.25 | 1.5 | 25 | A | 2.91 | 1.70 | 1.28 | 1.02 |
| rasips.35 | 1.5 | 35 | A | 2.85 | 1.70 | 1.28 | 1.02 |
| TASze\% ${ }^{\text {cos }}$ | 2.2 | ${ }^{6}$ | A | 2.97 | 1.70 | 1.28 | 1.02 |
| TAs.2p2.10 | 2.2 | 10 | A | 2.97 | 1.70 | 1.28 | 1.02 |
| TA32P2-19 | 2.2 | 13 | A | 2.97 | 1.90 | 1.28 | 1.02 |
| Taszpz-25 | . 2 | 25 | $\wedge$ | 2.97 | 1.70 | 1.28 | 1.02 |
| TAs3p2-3s | 2.2 | 35 | A | 3.08 | 1.76 | 1.32 | 1.09 |
| Tas3m.4. | 3.3 | $\bullet$ | A | 2.97 | 1.70 | 1.28 | 1.02 |
| Tas3p3.10 | 3.3 | 10 | A | 2.97 | 1.70 | 1.28 | 1.02 |
| TAs3E.-15 | 3.3 | 19 | $\wedge$ | 2.97 | 1.70 | 1.28 | 1.02 |
| Tas3p3.2s | 3.3 | 23 | B | 3.08 | 1.76 | 1.32 | 1.03 |
| Tas3mi.35 | 3.3 | 33 | B | 3.08 | 1.76 | 1.32 | 1.03 |
| TASCW 7 - | 4.7 | 6 |  | 2.9 | 2.7 | 1.28 | 1.02 |
| Tastipie 10 | 4.7 | 10 | $\wedge$ | 2.97 | 1.70 | 1.28 | 1.02 |
| TAstip ${ }^{\text {Pas }}$ | 4.7 | 13 | B | 3.08 | 1.76 | 1.32 | 1.05 |
| TAsap7-25 | 1.7 | 23 | B | 3.00 | 1.76 | 1.32 | 1.05 |
| Tasapte3 | 4.7 | 33 | B | 3.08 | 1.76 | 1.32 | 1.09 |
| Tasspe | 0-8 | 6 |  | 2.97 | 1.70 | 1.20 | 1.02 |
| Tasgrs-10 | 8.8 | 10 | c | 3.15 | 1.80 | 1.35 | 1.08 |
| TASEPR.15 | 6.8 | 13 | c | 3.13 | 1.00 | 1.35 | 1.08 |
| Tasspores | A.8 | 25 | c | 3.15 | 1.00 | 1.35 | 1.08 |
| TAs6pe-23 | R-8 | 25 | c | 3.15 | 1.50 | 1.35 | 1.08 |
| tas | 10 | - |  | 3.15 | 1.6 | 1.35 | 1.08 |
| TAS 10.10 | 111 | 10 | c | 3.15 | 1.60 | 1.35 | 1.08 |
| TAs 10.15 | 10 | is | c | 3.15 | 1.80 | 1.35 | 1.0 \% |
| TAS 10.25 | 10 | 25 | c | 3.15 | 1.80 | 1.35 | 1.08 |
| Tas 10.3 | 10 | 35 | c | 3.15 | 1.80 | 1.35 | 1.08 |
| Tas 15.8 | 15 |  |  |  | 1.so | 1.35 | 1.08 |
| Tas 15-10 | is | 10 | c | 3.15 | 1.80 | 1.35 | 1.08 |
| Tks is-18 | 15 | 15 | c | 3.15 | 1.80 | 1.35 | $1.0 n$ |
| TAs 15-25 | 15 | 25 | c | 3.15 | 1.80 | 1.35 | 1.08 |
| TAS is.3s | 13 | 35 | 0 | 4.80 | 2.80 | 2.10 | 8 |
| TAs 22.6 | 22 |  |  | 3.15 |  | 1.35 |  |
| Tas 32.10 | 22 | 10 | c | 3.15 | 1.00 | 1.35 | 1.08 |
| TAs 22.1s | 22 | 15 | c | 3.15 | 1.80 | 1.35 | 1.08 |
| TAs 22-25 | 22 | 23 | D | 4.\% | 2.80 | 2.10 | 1.68 |
| Tas 22-33 | 22 | 33 | D | 4.90 | 2.80 | 2.10 | 1.68 |
| TAS 33-6 | 33 |  |  | 3.15 | 1.80 | 1.33 | 1.08 |
| TAS 33.10 | 33 | 10 | c | 3.15 | 1.80 | 1.35 | 1.08 |
| Tas 33.15 | 33 | 13 | n | 4.90 | 2.80 | 2.10 | 1.68 |
| TAS 33.25 | 33 | 23 | D | 4.30 | 2.80 | 2.10 | 1.68 |
| tas 33.35 | 33 | 33 | E | 9.10 | 3.20 | 3.90 | 3.12 |
| TAs 47.6 |  |  | $\stackrel{ }{ }$ | 3.15 | 1.no | 1.35 | 1.08 |
| TAS 47-10 | 47 | 10 | c | 3.15 | 1.80 | 2.35 | 1.08 |
| Tas 47.15 | 17 | 13 | \% | 4.80 | 2.80 | 2.10 | 1.68 |
| TAs 47.25 | 47 | 25 | D | 4.90 | 2.80 | 2.10 | 1.68 |
| TAs 47.35 | 47 | 33 |  | - 1.10 | 0 | 3.90 | 3.12 |
| tas 68.6 |  | - |  |  |  | 1.35 | 1.08 |
| TAS 88-10 | ${ }^{88}$ | 11 | D | 4.90 | 2.80 | 2.10 | 1.68 |
| TAs 68.25 | - | 13 | n | 4.50 | 2. 6 | 2.10 | 1.68 |
| Tas et-23 | ${ }^{48}$ | 23 | E | -. 10 | 3.20 | 3.90 | 3.12 |
| Tas 68.35 | ${ }^{68}$ | 33 |  | -. 10 | 3.20 | 3.90 | 3.12 |
| TAS 100.6 | 10 m |  |  |  |  |  |  |
| TAS 100.10 | 100 | 10 | , | 4.\% | 2.60 | 2.10 | 1.68 |
| TAS 100.1s | 100 | 13 | E | 9.10 | 5.20 | 3.90 | 3.12 |
| tAs 100.25 | 160 | 23 | E | 9.10 | 5.20 | 3.90 | 3.12 |
| tas 130.6 | 1 so | , | , | 4.00 | 2.00 | 2.10 | 1.68 |
| TAS 130-10 | 130 | 10 |  | 9.10 |  | 3.90 | 3.12 |
| TAs 150.15 | 130 | 13 | E | 9.10 | 3.20 | 3.90 | 3.12 |
| TAs 3206 | 20 |  | D | 4.90 | 2.80 | 2.10 | 1.68 |
| TAs 220.10 | 220 | 10 | E | 9.10 | 5.20 | 3,90 | 3.12 |
| TAs 330.6 | 330 | 6 | E | . 1.10 | 5.20 | 3.90 | 3.12 |

## MINIATURE CAPACITORS FOR INDUSTRIAL APPLLCATIONS SPRAGUE 150D SERIES "TANTALEX" CAPACITORS

Combine True Miniaturizotion with Electrical and Porformance Characterlstla Previously Unobtainable in Eloctrolytic Copocitors. Hermetically Seoled in Sub-miniature
Motal Cases. Solid Electralyte Cannot Leok or Corrode. Even If Hermetic Seal Is Accidentally Braken.
Exhlbit Stable Capacitance and Law Dissipolion Factor over Wide Temperature Range af $-80^{\circ} \mathrm{C}$ 10 $+85^{\circ} \mathrm{C}$. Temperature Coefficient of Capocitance is unusually low and Linear. Nominally 600 ppm $/{ }^{\circ} \mathrm{C}$. Supplled with Plastlc wt., 3 oz.
$\frac{\text { Type No. }}{1500224 \times 0006 \text { A2 }}$ $1600334 \times 0006$ A2 $1500474 \times 000642$ $1500684 \times 0006{ }^{2} 2$ $1500105 \times 0006$ A2 $1500155 \times 0006{ }^{12}$ $1500155 \times 0006$ A2 $1500225 \times 0006{ }^{15}$ 150 1500475 $1500685 \times 000642$ $1500106 \times 000682$ 1500156x000682 $1500226 \times 000682$ $1500336 \times 000682$ 1500476×000682 $1500606 \times 000682$ $1500686 \times 0006 R 2$ $1500107 \times 0006 R 2$
$150012720006 R 2$ $1500157 \times 0006 R 2$ 150D187x0006R2 $1500227 \times 000652$
$1500337 \times 00052$

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| 1-24 | $25-49$ |
| :---: | :---: |
| 3.16 | 1.81 |
| 3.16 | 1.01 |
| 3.18 | 1.81 |
| 3.15 | 1.81 |
| 3.15 | 1.81 |
| 3.18 | 1.81 |
| 3.18 | 1.81 |
| 3.18 | 1.81 |
| 3.16 | 1.81 |
| 3.16 | 1.81 |
| 3.32 | 1.90 |
| 3.32 | 1.90 |
| 3.32 | 1.90 |
| 3.32 | 1.90 |
| 3.32 | 1.90 |
| 3.32 | 1.90 |
| 5.05 | 2.89 |
| 5.05 | 2.89 |
| 5.05 | 2.89 |
| 5.05 | 2.89 |
| 5.05 | 2.89 |
| 9.13 | 5.32 |
| 9.13 | 5.32 |

## 10 WVDC-13 VDC SURGE

| Iype No. | mF | 1.24 | $25-49$ | $50-98$ | $100-499$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1050224 \times 001022$ | .22 | 3.18 | 1.61 | 1.35 | 1.08 |
| $1050334 \times 0010 A 2$ | .33 | 3.16 | 1.81 | 1.35 | 1.08 |
| $1050474 \times 0010 A 2$ | .47 | 3.16 | 1.81 | 1.35 | 1.08 |
| $1050684 \times 0010 A 2$ | .68 | 3.16 | 1.81 | 1.35 | 1.08 |
| $1050105 \times 0010 A 2$ | 1.0 | 3.16 | 1.81 | 1.35 | 1.08 |
| $1050155 \times 0010 A 2$ | 1.5 | 3.16 | 1.81 | 1.35 | 1.08 |
| $1050225 \times 0010 A 2$ | 2.2 | 3.16 | 1.81 | 1.35 | 1.08 |
| $1050335 \times 0010 A 2$ | 3.3 | 3.16 | 1.81 | 1.35 | 1.08 |
| $1050475 \times 0010 A 2$ | 4.7 | 3.16 | 1.81 | 1.35 | 1.08 |
| $1050685 \times 001082$ | 6.8 | 3.32 | 1.90 | 1.42 | 1.14 |
| $1050106 \times 001082$ | 10 | 3.32 | 1.90 | 1.42 | 1.14 |
| $1050156 \times 001082$ | 15 | 3.32 | 1.90 | 1.42 | 1.14 |
| $1050226 \times 001082$ | 22 | 3.32 | 1.90 | 1.42 | 1.14 |
| $1050336 \times 001082$ | 33 | 3.32 | 1.90 | 1.42 | 1.14 |
| $1050406 \times 001082$ | 40 | 3.32 | 1.90 | 1.42 | 1.14 |
| $1050686 \times 0010 R 2$ | 68 | 5.05 | 2.89 | 2.16 | 1.73 |
| $1050107 \times 0010 R 2$ | 100 | 5.05 | 2.89 | 2.16 | 1.73 |
| $1050127 \times 0010 R 2$ | 120 | 5.05 | 2.89 | 2.16 | 1.73 |
| $1050157 \times 0010 \$ 2$ | 150 | 9.13 | 5.32 | 3.99 | 3.13 |
| $1050227 \times 001052$ | 220 | 9.13 | 5.32 | 3.99 | 3.13 |

## 499

are hermpact, and lightweight, these paper copacitors ice perlod. Ideal far military or industrial use. Con withsiand adverse enviranmental conditians. Temperature Range, $-55^{\circ}$ ta $+70^{\circ} \mathrm{C}$, at full voltage rating; standard talerance $\pm 20 \%$. Av. Shpg. wi., 2 az.

| T00 VOLTS |  |  |  |  |  |
| :--- | :--- | :---: | :---: | :---: | :---: |
| MFO | S12E | MET | MFD | SIZE | MET |
| .001 | $11 / 64 \times 7 / 16$ | .95 | .10 | $5 / 16 \times 23 / 32$ | 1.11 |
| .002 | $11 / 64 \times 7 / 16$ | .95 | .22 | $5 / 16 \times 1.1 / 32$ | 1.13 |
| .003 | $11 / 64 \times 7 / 16$ | .97 | .25 | $5 / 16 \times 11 / 132$ | 1.24 |
| .005 | $11 / 64 \times 7 / 16$ | .97 | .47 | $13 / 32 \times 1.1 / 32$ | 1.33 |
| .01 | $11 / 64 \times 7 / 16$ | .99 | .68 | $9 / 16 \times 1.1 / 32$ | 1.40 |
| .047 | $15 / 64 \times 23 / 32$ | 1.05 | 1.0 | $9 / 16 \times 1.7 / 32$ | 1.54 |
| .050 | $15 / 64 \times 23 / 32$ | 1.05 | 2.0 | $9 / 16 \times 1.23 / 32$ | 2.33 |
| .068 | $5 / 16 \times 23 / 32$ | 1.08 |  |  |  |


| 400 VOLTS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MFO | SI2E | WET | mFD | SI2E | NET |
| . 0005 | 11/64x7/16 | . 99 | . 068 | 13/32x1.1/32 | 1.16 |
| . 0011 | 11/64x7/16 | . 99 | . 10 | \|3/32x|.1/32 | 1.18 |
| . 002 | 11/64天7/16 | . 99 | . 15 | 1/2x1-1/32 | 1.25 |
| .003 | 11/64×9/16 | 1.02 | . 22 | 9/1681-1/32 | 1.26 |
| . 02 | 11/64×23/32 | 1.05 | . 25 | $9 / 16 \times 1.1 / 32$ | 1.43 |
| . 022 | 5/16x23/32 | 1.06 | . 33 | 9/16x1-7/32 | 1.43 |
| . 033 | 5/16x23/32 | 1.06 | . 47 | 9/16x1-23/32 | 1.56 |
| . 040 | 5/16^23/32 | 1.06 | . 68 | 43/64x1-23/32 | 1.78 |
| . 047 | 13/32×23/32 | 1.06 | 1.0 | 43/64×2-7/32 | 1.92 |
| 050 | 13/32×23/32 | 1.06 |  |  |  |
| 600 VOLTS |  |  |  |  |  |
| MFO | S12E | WET | MFD | SI2E | MET |
| .01 | 5/16x23/32 | 1.08 | . 25 | 9/16x1.11/32 | 1.53 |
| . 02 | 5/16x23/32 | 1.08 | . 50 | 43/64*1.23/32 | 1.85 |
| . 10 | Y/x1-1/32 | 1.23 | 1.0 | $3 / 4 \times 2-7 / 32$ | 2.10 |



Case size indicoted by last latter in type number. All sizes include plastic sleeve. Also avallable less insulating
bizes include plastic sleev
sleove; write for prices.
$\begin{array}{cc}\text { Code } & \text { Diom. XLength } \\ \text { A } & .104^{\prime \prime} \times .312^{\prime \prime} \\ \mathrm{B} & .190^{\prime \prime} \times .500^{\prime \prime}\end{array}$
$\qquad$ Code
$\begin{array}{ll}\text { Code Dlam, x Length } \\ \text { ( } & .285^{\prime \prime} \times .759^{\prime \prime} \\ 5 & .347^{\prime \prime} \times .859^{\prime \prime}\end{array}$


15 WVDC-18 VDC SURGE

| Type ${ }^{\text {No }}$ | mF | 1.2 |  | 50-99/100.499 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $1500274 \times 001542$ | . 22 | 3.16 | 1.81 |  |  | 50 |
| 1500334×0015A 2 | . 33 | 3.16 | 1.81 | 1.35 | 1.08 | 150 |
| $1500474 \times 0015{ }^{2}$ | 47 | 3.16 | 1.81 | 1.35 | 1.08 | 150 |
| ${ }^{1500684 \times 001502}$ | . 68 | 3.16 | 1.81 | 1.35 | 1.08 | 150 |
| $1500105 \times 001542$ | 1.0 | 3.16 | 1.81 | 1.35 | 1.08 | 150 |
| $1500155 \times 001542$ | 1.5 | 3.16 | 1.81 | 1.35 | 1.0 | 150 |
| $1500225 \times 0015 \times 2$ | 2.2 | 3.16 | 1.81 | 1.35 | 1.0 |  |
|  | 3.3 | 3.16 | 1.81 | 1.35 | 1.0 | 150 |
| 1500475×001582 | 4.7 | 3.32 | 1.90 | 1.4 | 1.14 | 50 |


| Type No. <br> $1500685 \times 001582$ <br> 1500106×001582 <br> $1500156 \times 001582$ <br> $1500226 \times 001582$ <br> $1500336 \times 0015 R 2$ $1500476 \times 0015 R 2$ <br> 150068600015R2 <br> $1500107 \times 001552$ <br> 1500157X0015S2 |
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| $m f$ | 1.24 | 25.49 | $50-99$ | $100-499$ |
| :---: | :---: | :---: | :---: | :---: |
| 6.8 | 3.32 | 1.90 | 1.42 | 1.14 |
| 10 | 3.32 | 1.90 | 1.42 | 1.14 |
| 15 | 3.32 | 1.90 | 1.42 | 1.14 |
| 22 | 1.32 | 1.90 | 1.42 | 1.14 |
| 33 | 5.05 | 2.89 | 2.16 | 1.73 |
| 40 | 5.05 | 2.89 | 2.16 | 1.73 |
| 68 | 5.05 | 2.89 | 2.16 | 1.73 |
| 100 | 9.31 | 5.32 | 3.99 | 3.13 |
| 150 | 9.31 | 5.32 | 3.99 | 3.13 |

## 35 WVDC-40 VDC SURGE

| Type No. | mF | 1-24 \| 25-49| 50.99|100-499 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1500472 \times 0035 A 2$ | . 0047 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500682 \times 003542$ | . 0068 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500103 \times 003542$ | . 01 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500153 \times 0035 A 2$ | . 015 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500223 \times 0035 A 2$ | . 022 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500333 \times 003542$ | . 033 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500473 \times 003542$ | . 047 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500683 \times 003542$ | . 068 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500104 \times 003542$ | . 10 | 2.85 | 1.63 | 1.22 | . 98 |
| 1500154×0035A2 | . 15 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500224 \times 003542$ | 22 | 2.85 | 1.63 | 1.22 | . 98 |
| 1500334×0035A2 | . 33 | 2.85 | 1.63 | 1.22 | . 98 |
| 1500474×0035 A2 | . 47 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500684 \times 003542$ | . 68 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500105 \times 0035 A 2$ | 1.0 | 2.85 | 1.63 | 1.22 | . 98 |
| $1500155 \times 003582$ | 1.5 | 3.32 | 1.90 | 1.42 | 1.14 |
| $1500225 \times 003582$ | 2.2 | 3.32 | 1.90 | 1.42 | 1.14 |
| $1500335 \times 003582$ | 3.3 | 3.32 | 1.90 | 1.42 | 1.14 |
| $1500475 \times 003582$ | 4.7 | 3.32 | 1.90 | 1.42 | 1.14 |
| 1500685\%003582 | 6.8 | 3.32 | 1.90 | 1.42 | 1.14 |
| 1500106x0035R2 | 10 | 5.05 | 2.89 | 2.16 | 1.73 |
| $1500156 \times 0035 \mathrm{R} 2$ | 15 | 5.05 | 2.89 | 2.16 | 1.73 |
| $1500226 \times 0035 \mathrm{R} 2$ | 22 | 5.05 | 2.09 | 2.16 | 1.73 |
| $1500336 \times 003552$ | 33 | 9.31 | 5.32 | 3.99 | 3.13 |
| 1500476x0035S2 | 47 | 9.31 | 5.32 | 3.99 | 3.13 |

## AEROVOX P83Z MICROMINIATURES

Ultra-small metalized, papar dielectric capacitor porticu. larly sulted to replace law capacity paper units. Hyvol K impregnated in humidity resititant molded thermoplostic coses. Shpg. wi., 1 oz.
liny metalized paper units which ore self-healing ta protect against surge voltages and are up $1078 \%$ smaller than equivatont paper units. Hyvol $K$ impregnated, in moisture resistan" wax impresnated cardboard cases having metal end raps and extended foil construction for tow impedance. Stenderd tolerance $\pm 20 \%$. Average 3 3pes. wt. 2 2 200 V

| $\mu F$ | $\begin{aligned} & 200 \mathrm{~V} \\ & \text { SILE } \end{aligned}$ | NET | $\mu \mathrm{F}$ | $\stackrel{400 \mathrm{~V}}{8 \pi \mathrm{E}}$ | NET |
| :---: | :---: | :---: | :---: | :---: | :---: |
| . 01 | 3/8x ${ }^{3 / 8 .}$ | 42 | . 01 | $3 / x^{3 / 4}$ |  |
| . 02 | $3 / 8 \times 1 / 8$. | .42 | . 02 | $3 / 1{ }^{5} / 8$. | . 42 |
| . 03 | $3 / \mathrm{m}^{5 / 8 .}$ | .44 | .03 | $3{ }^{3} \times 8$. | 44 |
| . 05 | $3 / 8 \times 1 / \%$ | .45 | . 03 |  | . 45 |
| . 1 |  | . 45 | . 1 | 15/32x11/8", | . 48 |
| . 25 | 15/32 $15.32 \times 11 /{ }^{\circ}$ | . 67 | . 5 | 5x11/\%.. | 73 |
| 1.0 | $15,32 \times 1 / 1 /{ }^{\circ}$ | 1.05 | 1.5 | 23/32x21/6" | 1.28 |
| 2.0 | 3/8x13.0. | 1.45 | 1.0 |  | 1.2 |



MFOL SIZE I MET


## $.004{ }^{200}$ volts

| .004 | $3 / 1697116$ |
| :--- | :--- |
| .005 | $3 / 1607 / 16$ | .01 3/16x7/16 | .02 | $Y_{0} \times 9 / 16$ |
| :--- | :--- |
| .04 | $\mathrm{~K}_{\times 9} \times 9 / 16$ | 400 volis | .002 | $3 / 16 \times 7 / 16$ |
| :--- | :--- |
| .003 | $3 / 16 \times 7 / 16$ | | .003 | $3 / 16 \times 7 / 16$ |
| :--- | :--- |
| .008 | $1 / 49 / 16$ | . 01 1/4x9/16

.21
.21
.21
.77
.27

.21
.27
.27
.27
 MFD I SIZE I MET

:1: $1: \frac{1}{1}$ "SOLITAN" SOLID TANTALUM ELECTROLYTICS
IYPE IY is a completoly dry and hermetically sealed tantalum capacitor encdsed in a tubular metal cose. "SOll TAN" contoins no liquid electrolyte, residue or moisture, Remarkable slability of capacity with time and "tempera dia., $7 / 16^{\prime \prime}$ long. Averoge shpg. wh., 2 ors.

\section*{| c.O. | CAP. |
| :--- | :--- |
| No. |  | FD. SIzE - Volt <br> Det Eoth

50.99 ING | HG | 100.999 |
| :--- | :--- |}

.25
.33
.47
.50
.68
1.0
1.5
2.0
2.2
3.0
3.3
4.0
4.7
5.0
6.0
6.8
7.0
.8 .0
8.2
9.0
10.0
12.0
13.0
13.0
18.0
20.0
22.0
24.0
25.0
27.0
30.0
33.0
36.0
40.0

60.0 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| :--- | :--- | :--- | :--- | :--- |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| A | 2.99 | 1.71 | 1.28 | 1.03 |
| B | 2.99 | 1.71 | 1.28 | 1.03 |
| B | 2.99 | 1.71 | 1.28 | 1.03 |
| B | 2.99 | 1.71 | 1.28 | 1.03 |
| 8 | 2.99 | 1.71 | 1.28 | 1.03 |
| B | 2.99 | 1.71 | 1.28 | 1.03 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.38 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| $B$ | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
| B | 3.15 | 1.80 | 1.35 | 1.08 |
|  | 0.9 | 108 | 0 |  | VOLTS D.C. WORKING

| TY57 | . 25 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TY112 | . 33 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| TY37 | . 47 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| TY58 | . 50 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| TY36 | . 68 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| TY10 | 1.0 | A | 2.99 | . 1.71 | 1.28 | 1.03 |
| TYE9 | 1.5 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| TY11 | 2.0 | A | 2.99 | 1.71 | 1.28 | 1.08 |
| TYOI | 2.2 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| TY60 | 3.0 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| TY68 | 3.3 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| TY122 | 4.0 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| TY123 | 4.7 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| TY14 | 5.0 | A | 2.99 | 1.71 | 1.28 | 1.03 |
| TY62 | 6.0 | A | 3.15 | 1.80 | 1.35 | 1.08 |
| TY124 | 6.8 | B | 3.15 | 1.80 | 1.35 | 1.08 |
| TV125 | 7.0 | B | 3.15 | 1.80 | 1.35 | 1.08 |
| TY63 | 8.0 | B | 3.15 | 1.80 | 1.35 | 1.08 |
| TY126 | 8.2 | B | 3.15 | 1.80 | 1.35 | 1.08 |
| TY64 | 9.0 | $B$ | 3.15 | 1.80 | 1.35 | 1.08 |
| TY15 | 10.0 | 8 | 3.15 | 1.80 | 1.35 | 1.08 |
| TY66 | 12.0 | 8 | 3.15 | 1.80 | 1.35 | 1.08 |
| TV127 | 13.0 | - | 3.15 | 1.80 | 1.35 | 1.08 |
| TY128 | 15.0 | 8 | 3.15 | 1.80 | 1.35 | 1.08 |
| TY67 | 18.0 | 8 | 3.15 | 1.80 | 1.35 | 1.08 |
| TY16 | 20.0 | 8 | 3.15 | 1.80 | 1.35 | 1.08 |
| TY129 | 22.0 | B | 3.15 | 1.80 | 1.35 | 1.08 |
| TY130 | 24.0 | B | 3.15 | 1.80 | 1.35 | 1.08 |
| TY131 | 25.0 | B | 3.15 | 1.80 | 1.35 | 1.08 |
| TY132 | 27.0 | $B$ | 3.15 | 1.80 | 1.35 | 1.08 |




| C.D. | CAP. |  | Net Esh |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Ne. | MFD. | SIRE | 1.24 | 25.49 | 50.99 | 100.999 |



Designed to meet rigid and severe operating requirements Hermetically seoted in mefol cases with glass- $10 \cdot \mathrm{melal}$ seal terminals. Contains Dykanol $U$ oil impregnant with $-55^{\circ}$ to $+125^{\circ} \mathrm{C}$ temperature range. In ungrounded besic style. All $\pm 20 \%$ lol. Av. shpg. wt., 3 oz. <br> \section*{\section*{TYPE}} <br> \section*{\section*{TYPE}}
1.08
1.08
1.08
$T Y$
$T Y$
$T Y$
TY

lafayette carries complete lines of electronic components and equipment
Page 153

# INDUSTRIAL CAPACITORS, SWITCHES AND TERMINAL CONNECTORS 



Precision mode for industriol ond laborotary use. Troes morked ore bosic unlts less Roted 15 amp . 125 volt. 5 amp . 250 V valt. 60 cycle nan-inductive AC. Type $2 \mathrm{HBDTX}-1$ hos DPST oction. Alt athers SPDT. Avg. shpg. wt., 3 oz.
Size (1) $215 / 32 \times 1 \% \times 11 / 16^{\circ}(2) 115 / 16 \times \% \times 11 / 16(3) 225 / 64 \times 1 \% \times 11 / 16$ (4) $215 / 32 \times 17 / 32 \times 11 / 16(5) 235 / 64 \times 1 \% \times 113 / 32$

| $\begin{aligned} & \text { stock } \end{aligned}$ | $\begin{gathered} \text { Unimax } \\ \text { Type } \end{gathered}$ | 51. | Actuatior and Operating Force |
| :---: | :---: | :---: | :---: |
| 5w-4s | 2 HI | A | Hamir PII |
|  |  | 童 | Leaf spr |
| S $w-37$ | ${ }_{2}^{2} \mathrm{HBF}$-1 | $\underset{0}{c}$ | Roller tis |
| 5 | ${ }_{2}$ HABT-1 | 8 | inat spring |
| Sw-so | $218 \mathrm{BY} \cdot 1$ | ${ }^{\mathbf{B}}$ | Illnem Max. |
|  | $21 \mathrm{tan} \cdot 1$ | D | 1.eaf sprimer Rniler |
|  |  | F | Sifety Jntorlock |
|  | $218 \mathrm{Ca}-2$ | G | Pluncer ${ }^{\text {sm }}$ |
| -55 | 2 H | 6 | plu |


|  | Overall |  | Wnt Each10.1820 |  |
| :---: | :---: | :---: | :---: | :---: |
| AZ-2R |  |  |  | 1.18 |
|  | $\frac{5}{2}$ | 1.62 |  |  |
|  |  | 2.35 | 2.12 |  |
| [ 8 \%-2R1,2 | 1 | 2.81 | 1. |  |
| B\%. $2 \pi$ W | $\frac{3}{2}$ | 1.86 | 1.68 | 1. |
| B\%2nw |  | 2.35 | 2.12 | 1. |
|  |  | 2.69 | 2.46 | 2. |
|  |  | 4.85 | 6. 36 | 3.80 |
| $\begin{aligned} & \text { Hz\%.2ns } \\ & \text { HZ.2R9 } \end{aligned}$ |  |  |  |  |

## MIL-TYPE SUBMINIATURE SWITCHES

TYPE USMS Used as basic switch in all units listed up to $275^{\circ} \mathrm{F}$. Melts MIt-S.6743 and military drawing MS-25085.1. All USM Units. $115 / 16 \times \%$ n $11 / 16^{\prime \prime}$. Avg. shpg. wi.. 3 oz.

| $\begin{aligned} & \text { seock } \\ & \text { No. } \end{aligned}$ | Umimax sype |  | Actuator and Onerating Force |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. | sype | Fis. | Onerating Force | Enelv. | 1.9 | $10+2 \%$ | 20-49 |

 SUAMINIATURE WITM TOGGLE SWITCH ACTUATORS
TYPE 1SE1-1 2-Position Single Rall Maintained Incorporates USMS Switch. Keying tab.
TrPE ISBS-1 Some os ISB1-1 except assembled in corrosion-resistont steel bushing for panel mounling. Dasigned to meet MIL-S.3950. Size $159 / 64 \times 25 / 64^{\prime \prime}$ "
TPE 2SBS-1 Same as ISBS-1 excepl incorporates 2 USMS Bosic Switches Size $159 / 64$
 SW.
5 M
5 F .61
SW .62

## SUBMINIATURE WITH PUSM BUTTON ACTUATORS

TYPE ISJI-I incorporates USMS switch ossembled with on overtrovel plunger, with provisions for ponel mounting. Floxible insulotor barriers on both sides of the switch.
Hos teying tob. Size $13 / 32 \mathrm{x} \%$. TYPE $2 S J 3-1$. Some os $15 J 1.1$ except incorparates
 2.USMS switches for DPDT oction, with push button actuolor. Size $113 / 64$ a $43 / 64^{\prime \prime}$.
TYPE $2 S J 4-1$ Same os $2 S J 3-1$ except with block onodized oluminum push button actuator. Hos more avertrovel than 2SJ3-1. Size $113 / 64=43 / 64^{\prime \prime}$. Shpo. Wt. 5 at


## CAMBLOCK TERMINAL BLOCK



A bosic new principle in electric conneetors. Cuts average wiring time by $75 \%$. Tokes wire sizes from .01010 .094 dio. $1 / 4$ furn with screwdriver connects or disconnects. MIL.T.16784A specs grips wire 10 moke every strand o canductor. Meets or exceeds $90 B$ for high impacl. The housing is madiectrie strength and vibratian, and ML.S3000 V high impach. The housing is made of modified acrylic. Dielectric strength 3000 V belween ferminols, 4500 V between terminol and base. Avalloble from 2-20
station. All Camblocks listed are roted torion. All Camblocks listed are roled at IS AMPS. A stalion consists of 1 in and 1 out lerminal. Size 2 station block $9 / 16^{\prime \prime}$ depth $\%$ heighi ond $1 / 7 \mathrm{mtg}$ center to mfg . center. For 3.11 station dimensions odd 0.3810 mig center per stotion. 12 stotion dimensions same as 1.11 except $m$ tg centers $52 / 5$ odd 0.38 per station to ablain dimension 13.20. Shpg. w1. 2 stations 2 os. odd 1 oz far eoch additional station.

## terminal blocks

 TYPE CBIS| Stock Me. | No. af Stations | 1-49 | 50-99 | 100. 49 |
| :---: | :---: | :---: | :---: | :---: |
| CN- 10 | 2 | . 24 | . 20 | . 18 |
| CN-11 | 3 | . 36 | . 30 | . 27 |
| CN- 12 | 4 | . 44 | . 37 | . 34 |
| CN-13 | 5 | . 56 | . 47 | . 38 |
| CN-14 | 6 | . 65 | . 54 | . 50 |
| CN-15 | 7 | . 74 | . 62 | . 55 |
| CN-16 | 8 | . 84 | . 70 | . 63 |
| CN-17 | 9 | . 95 | . 79 | . 72 |
| CN-18 | 10 | 1.04 | . 87 | . 81 |
| CN-19 | 11 | 1.14 | . 95 | . 86 |
| CN- 20 | 12 | 1.24 | 1.03 | . 93 |
| CN-21 | 13 | 1.34 | 1.12 | 1.01 |
| CN-22 | 14 | 1.44 | 1.20 | 1.08 |
| CN-23 | 15 | 1.54 | 1.28 | 1.15 |
| CN. 24 | 16 | 1.64 | 1.37 | 1.23 |
| CN-25 | 17 | 1.74 | 1.45 | 1.30 |
| CN-26 | 18 | 1.84 | 1.53 | 1.38 |
| CN-27 | 19 | 1.94 | 1.61 | 1.45 |
| CN-28 | 20 | 2.04 | 1.70 | 1.53 |

## MARKER STRIPS

| Stock No. | No. of Sterions | Net ench | $\begin{aligned} & 50 \\ & \text { for } \end{aligned}$ | $\begin{aligned} & 100 \\ & \text { for } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| CN-29 | 2 | . 025 | . 90 | 1.71 |
| CN-30 | 3 | . 03 | 1.18 | 2.12 |
| CN-31 | 4 | . 035 | 1.43 | 2.57 |
| CN. 32 | 5 | . 04 | 1.65 | 2.97 |
| CN-33 | 6 | . 045 | 1.90 | 3.42 |
| CN-34 | 7 | . 05 | 2.13 | 3.83 |
| CN-35 | 8 | . 06 | 2.38 | 4.28 |
| CN-36 | 9 | . 065 | 2.60 | 4.68 |
| CN-37 | 10 | . 07 | 2.85 | 5.13 |
| CN-38 | 11 | . 075 | 3.08 | 5.54 |
| CN-39 | 12 | . 08 | 3.33 | 5.99 |
| CN-40 | 13 | . 085 | 3.55 | 6.39 |
| CN-41 | 14 | . 09 | 3.80 | 6.84 |
| CN-42 | 15 | . 095 | 4.03 | 7.25 |
| CN-43 | 16 | . 10 | 4.30 | 7.74 |
| CN-4 | 17 | .11 | 4.50 | 8.10 |
| CN-45 | 18 | .115 | 4.75 | 8.55 |
| CN-46 | 19 | .12 | 4.98 | 8.96 |
| CN-47 | 20 | .125 | 5.23 | 9.41 |

## JFD PISTON CAPACITORS

Precision-engineered unifs for occurote alignment of critical circuifs. Subminiolure in size for outamotion ond printed circuit opplications. Stable operation. Withstond severe shock ond vibrotion. Approx. tero temperafure coefficient. Speinstrumentotion opplicalions. Both glass and quartz piston fypes for mintoture or conventional circult radar, campuler, types hove ielercoping construction Averag. Shipping woints 5 minfoture or conventional circult design. Miniature



STANOARD PANEL MOUNTS (FIG. 3)

| Hol | $\begin{aligned} & \text { STANOARD PA } \\ & \text { Geo. Ees. } \end{aligned}$ |  |  |  |  |  | 16. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 10 | $\cdots$ |  |  |  | 100 |
|  | 1-meld. | 94 | $\cdots$ | Ue | Mo. | (mmed ${ }^{\text {m }}$ | 24 | 9 | $\mathrm{y}_{\mathrm{p}}$ |
| -ve.t | 0.74 .3 | 3.30 | 2.87 | 2.75 | v.eca | 0.7-17.0 | 1.40 | 1.62 | 1.50 |
| -ves | 0.66 .0 | 3.\% | 3.51 | 3.25 | ve-ber | 0.8.17.0 | 1.95 | 1.75 | 1.63 |
| - ve. 11 | 08.10 .0 | 4.50 | 4.05 | 3.15 | ive.asi | 0.8.17.0 | 1.95 | 1.75 | 1.63 |
| - vcila | 1.010 .0 | 4.50 | 4.05 | 3.15 | ve. 76 | $2.0 \cdot 30.0$ | 1.25 | 2.02 | 1.18 |
| -vc.17 | -0.21.0 | d | 5.4 | s.t. | . 116 | 0.6.14.0 | 1.75 | 2.01 | 1.68 |
| ve.16 | 0.79 .0 | 1.95 | 1.15 | 1.03 | \#VC.licea | 0.6.140 | 2.10 | 1.89 | 1.75 |
| \% 7.36 | 07.9 | 1.65 | 1.45 | 1.30 | v.ilicer | 0.4.14.0 | 180 | 1.62 | 1.50 |
| V6. 361 | 0.7-90 | 1.Es | 1.62 | 1.50 | IVC. 118 EC | 0.6180 | 2.10 | 1.45 | 1.75 |
| $\mathbf{v}$. 46 | 08180 | 1.05 | 1.75 | 1.63 | VC.13e4 | 1312.0 | 1.20 | 1.08 | 1.00 |
| tVC-S6 | 0.8.10.0 | 2.25 | 2.02 | 1.84 | YC. 3 \% | 0.830 .0 | 2.40 |  | 1.00 |

## QUARTZ SEAL CAPS

## PANEL AND PRINTED

 CIRCUIT TYPE

| odel <br> Na. | Cap Range MFD. | 1-24 |
| :---: | :---: | :---: |
| . 171 | 0.6-1.8 | 5.70 |
| -173 | 0.6-5.5 | 6.15 |
| -176 | 0.6-9.5 | 7.50 |
| 179 | 0.8-16.0 | 8.30 |
| 181* | 0.6 .1 .8 | 5.40 |
| 183* | 0.6-5.5 | 5.85 |
| 186* | 0.6.9.5 | 7.20 |
| 189* | 0.8-16.0 | 9.00 |
| 191+ | 0.6-1.8 | 5.40 |
| 193 | 0.6-5.5 | 5.85 |
| 196 | 0.6.9.5 | 7.20 |
| .19\% | 0.8-16.0 | 9.00 |
| FIG. 1 | copt - (FIG. | and | Net Each

25.99 | 25.99 | $100 u p$ |
| :--- | ---: |
| 5.13 | 4.75 |
| 5.53 | 5.13 |
| 6.75 | 6.25 |
| 8.37 | 7.75 |
| 4.86 | 4.50 |
| 5.26 | 4.87 |
| 6.48 | 5.99 |
| 8.10 | 7.50 |
| 4.86 | 4.50 |
| 5.26 | 4.87 |
| 6.48 | 5.99 |
| 8.10 | 7.50 |

HART AND HEGEMAN MOMENTARY PUSH BUTTON SWITCHES

 ghain lobes exeept, Which have anap on huttank ixpme $308 .$, buttons 1 oz.


[^6]
## SANE MORE THAN $\mathbf{5 0 \%}$ ON Safayette SWITCH Values!



PUSH BUTTON SWITCH 19

Momentory contact push button switch ideol for oll minio turized opplications. Single pole rwo circuit push-io-make Yos. Berylium copper leof contacts. Overalt diametor $1 / 2$ ". overall depth $11 / 16^{\prime \prime}$ pratrudes $1 / \%^{\prime \prime}$ behind panel. Bush-
ing $1 / "^{\circ}$ dio. $3 / 16^{*}$ long. Supplied with wosher and mounting nut. Shpg. wi., 3 oz.
MS-449 Miniofure Push Butlon Switch

## 


NEW! RUGGED TELEPHONE TYPE 4PDT LEVER SWITCH

ANOTHER
LAFAYETIE BUY!
EA.
Reg. Value

Smoll 3-position lever oclion telephone tyo switch rugged non-Inductive construction, perfect for large i lersom switching ponels, fest equipment, model raitroods, double-throw contacts Chrome-plated actuating cam hos 3 locking pasitions. Heovy insulated rollers of end of com octuat switch contocts. Mounts to ponel with serews (furnished). $15 / 16^{\prime \prime}$ mounling centers. Size $2 \%$ serews (furnished). $\mathrm{l}^{2 / 16}$ wide, $1.5 / 16^{\mathrm{m}}$ high. Shps. m . SW-20 3-Position Telephone Trop Switch .. Net. 69 Ea


MALLORY ROTARY SWITCHES
MULTI-GANG SWITCHES
Ined in aervicing ami Indmar innd mon natjustinble
silver plated contic
 and niver ronthet slukn. is
 shaft. $7 / 16^{\prime \prime}$ meng. noteliwd. wore und har linting hariwh., mz

| pomithon. <br> Sharting Troe Cot. $\qquad$ | Non Shorting Type cot. No. | Cancs | TOTAL POLES |  | $\begin{aligned} & \text { NET } \\ & \text { EACH } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 12111 | 13112 | 1 | 1 | 11 | 1.71 |
| 1218L* | 13156 | 1 | 2 | 5 | 1.71 |
| 12134 。 | $1313{ }^{\circ}$ | 1 | 3 | : | 1.71 |
| 1212. | 1312L. | 1 | 4 | 2 | 1.71 |
| 12214 | 13214 | 2 | 2 | 11 | 2.12 |
| 12256. | 1325 ${ }^{\text {c }}$ | 2 | 4 | 5 | 2.12 |
| 12236. | 1323L. | 2 | ${ }^{1}$ | : | 2.12 |
| $12224^{\circ}$ | 1322. | 2 | $N$ | 2 | 2.12 |
| 12314 | 13314 | 3 | : | 11 | 2.65 |
| 1238L. | 1335 c . | \% | ${ }^{3}$ | 5 | 2.65 |
| 12414 | 13412 | 1 | 4 | 11 | 3.12 |
| 12456. | 13456. | 4 | 4 | \% | 3.12 |
| 1251 L | 13516 | 5 | 5 | 11 | 3.35 |
| 12561 | 13381 | - | 111 | H | 3.70 |
| 12614 | 13614 | , | $f$ | 11 | 3.96 |
| 12662 | 13664 | , | 12 | 6 | 4.50 |

## (G)

HEAVY DUTY 6 AMP DPDT SWITCH 324 a trenticic sur:
Heavy duty bot handle taggle switch in enclosed bokelite cose - ideal for hundreds of applications. Rated 250 V .3 wh ar with chrome metal on-of indicator plate and mounting ing terminols Bushing $15 / 32^{n}$ dio behind ponel, includ. ng terminols. Bushing $15 / 32^{\prime \prime}$ dia., $7 / 16^{\prime \prime}$ long. Bot hor. 5W-22 DPDT Togole Switch

In lots of 10 Eorh 29


## HEAVY DUTY 6 AMP DPDT CENTER OFF TOGGLE SWITCH LAFAYETIE SPECIAL!

Heavy-duty double.pole dauble-throw for contral af light in circuits, high power p.o. horns, electrical appliance and motors. Rated at 6 omps 125 volts AC or 3 amps 250 AC. Motal on-on indicator plote and mounting nuts witch body $1.5 / 16^{\prime \prime} \times 3 / /^{\prime \prime} \times 1^{\prime \prime}$ behind ponel, including erminals. $7 / 16^{\prime \prime}$ bushing, $7 / 16^{\prime \prime}$ diam. $1 / 9^{\prime \prime}$ bat handle. hpg. wi., 8 az

This heovy duty switch is ideal for small size equipment Heavy silvered lugs fop low-loss cannections. Roted 10 amps of 125 volts. Body size $1 \mathrm{~K}^{\prime \prime} \times 9 / 16^{\prime \prime} \times 3 / 3^{\prime \prime}$ depth behind ponel. Bushing $1 / 0^{\prime \prime}$ dia., $7 / 16^{\prime \prime}$ long. Bat hondle 5W-27 SpDT Togole swish


## MIDGET-BAKELITE <br> KNIFE SWITCHES

Compact switches mounted on block bokelite bose with insulated knob handle of block bokelite. Ploted bross contacts provide posilive low-resistance cannection. SPDT KNIFE SWITCH
Overall size $11^{\prime \prime} \times 2 \% "$. ShDg. Wr.., 6 oz
5W-23 .................................. 12 eo. - 10 for .99 DPDT KNIFE SWITCH
Overall size $1 \% \times 2 \%$. Shpgew..if oz.
$5 w-24$ 10 for 1.75


CUTLER-HAMMER NEW DESIGN SWITCHES Approwed tyine with nickel-iblated metal parix. Fiun


 $8360 K 7$
$7321 K 3$ 732163 732063
809743 $7140 k$ $\qquad$
$\frac{125 r}{6}$

| V. | Each | Each | 100 |
| :---: | :---: | :---: | :---: |
|  | Each |  |  |
| .45 | .41 | .34 |  |
| .98 | .52 | .43 |  |
| .93 | .84 | .70 |  |
| .81 | .73 | .61 |  |
| .86 | .77 | .65 |  |
| .86 | .77 | .65 |  |
| .37 | .33 | .28 |  |

$\qquad$
CUTLER-HAMMER MEAVY DUTY SWITCMES ${ }^{2}$
$\qquad$



## ar <br> MALLORY DIAL PLATES

IYPE MMARKIMG ITYPF MARKING ITYPE I MARKING

| -7T2 | 10.2 | 378 | 1 to N | 3N4 | afl 1 lis |
| :---: | :---: | :---: | :---: | :---: | :---: |
| -67: | $110:$ | 179 | 1 (10) | : NK | 0ff 1 (10.0 |
| 374 | 110.4 | 180 | 1610 | :1m ${ }^{\text {a }}$ | u,ff 1 Enf |
| 375 | $110 \%$ | : 61 | 1 tm 11 | :307 | 0, 1 14, 7 |
| 376 | 1196 | :182 | 1 (1) 12 | : KN | off 1 lum |
| $37 \%$ | 1107 | 3\% ${ }^{\text {3 }}$ | of 1 (1) 1:3 | $3 \times 9$ | aft ! い? |

NH:T


## RELAYS-SYNCHRONOUS MOTORS-MINIATURE SWITCHES



## TIMERS for HIME IFFICE \& INIILSTHY <br> TYPE TIOI TIME SWITCH furns equipment trom ane to twelve "on" "off" operthours, or con be obtained by use of extro trippers. Extro trippers foil be odded without remaving diot. Min. on or of time <br> TYPE T171 "SKIPPER' TIME SWITCH <br> - SKIPS OPERATIONS ON SELECTED DAYS <br> SWITCH ACCESSORIES <br> EXTRA TRIPPERS - Sel of ON and OFF Trippers fone

 hr. . mox. on or of time 23 hours. Con be furned on or off manuolly with resel SPST swilch rated of 35 amps. 4000 wott copocity. Hos convenient mounting holes ond Mockouts Lorge numbers - eosy to reod - eosy 10 sel. Gray steel cose with knockouls- hinged door-con be ocked or seoled. UL approved, Operotes on 110 volt 60
 M5. 82
P101. Similor to t101 except cose is equipped with off.cord et for plug.in and receptocle. Capacity 1250 wott
ms. 360 Shpg.
TYPE T185 5-to-60 MINUTE TIME SWITCH

- UP TO 14 COMPLETE "ON-OFF" CYCLES.
- EACH CYCLE INDIVIDUALLY ADJUSTABLE

FOR 5 TO 60 MINUTE OPERATION.

- 4000 WATT CAPACITY

Here is an unusually versatile limer that has distingulshed itself in the home, on the form ond in industry, in oppli cotions where multiple "on-ofl" cycles of 5 to $80 \mathrm{~min}-$
utes ore required wistin o 24 hr . period. A minuie selector is provided on eoch specially designed tripper selector is provided on eoch specially designed Ir
for setting the number of minutes, $(5$ to 80$)$, the of cycle will operale. Up to 14 frippers can be ploced of crcle will operate. Up to 14 frippers can be ploced
on the some diot of the some time. Minimum interval an the same diol of the some time. Minimum interval between slat of eoch cycle, $13 / 4 \mathrm{hrs}$. Large, silver, snop.
oction contocts rated 35 omps. 125 volts, AC. 4000 watt oction contocts rated 35 omps. 125 volis, AC. 4000 walt capacity. High-forque slaw-speed dependoble orecise timing motor. Groy steel cose, $7 \%^{\prime \prime \prime} \times 5^{\prime \prime} \times 3^{\prime \prime}$. Supplied with 3 Irippers (for 3 "an-off eycles). for 110.125 volts. 80
MS-143

4 lbs.
pers for Net 11.67 on.oft"
cuele. Wi., 4 ot
MS. 144
Nel .84

- 4000 WATT CAPACITY

An ingenious lime switeh thot nat only aulomatically furfs equipment on or aff, but will skip operolions on ony selected doys. Ideal where offices or factories ore closed on Soturdars, Sundays of Holidoys. Turns "on and off "once every 24 hours with single set of trippers upplied, but up to 11 on ond off operations con be hod by adding extro trippers listed below. Supplied with 3 skipping screws; more can be odded. Also has I culout tripper which odvances day diol outomolicolly. Snap oclion confacts roted af 35 omps of 125 volts. Min. on or
of fime 1 hour, moximum 23 hours. Size $7 \% \times 5 \times 3^{\prime \prime}$.
 S.P.S.T. - Skips "ON" Operation.

MS. 130
Net 11.67
TypeT175-Single Pole Double Throw. Opens one circuit and closes anather.Skips either "ON" "OFF"operation MS.146 Shpg.wi, 4 lbs. Nef 12.97 Trpe P171-Portoble Plup-In version of Type 1171 Switch SPSY. Copocity 1250 watts (contacts 10 omps)
Ms-361 Shpg. wi.. 6 tb. 12.97
TYPE T109 POULTRY TIME SWITCH - MORE LIGHT, MORE EGGS, MORE PROFIT, HEALTHY HENS!
Prolangs daylight in winter ond fall. Gives you addifional eggs when $9 g$ prices or highest. Designed for morning and evening lighting or evening lighting olone. Provides oulomotic 20-minute "Dimming" period offer bright lights go "of" enabling hens to reach roost sofely. Controls one circuit for bright lighis, onother sircuit for dim lights. Copocity: "Bright" - 3000 wats $(24$ amperes of 125 volis). "Dim" - 1000 watts ( 8 amperes of 125 valis). Gray steel cose $7 \%$ " $5^{\prime \prime} \times 3$ MS-145
eachl-to odd addifional operofions 10 Types T101, T 171 PIOI and P171 lime switches
MS.83 per sel Shre wt.. 202 . Net . 26
SKIPPING SCREWS
MS.133 Shog wi - For
Net 04
CUT-OUT TRIPPER - for "Skipper" pypes only.
MS. 134 Shpa
Net .18
TYPE 1965 TIME SWITCH

- FOR 1 to 96 ON-OFF OPERATIONS EVERY 24 HOURS.
An enceptionolly useful progrom timer designed for 24 hour control of opplicotions reauiring mony ON.OFf operations in 15 minute increments. Con be sel tor os mony os 48 ON and 48 OFF operotions of is minule durations during ony 24 hour period. Minimum "ON" "OFF" period is 23 hours 45 minutes. Ideol fol conirol OFF period is $\mathbf{2 3}$ hours 45 minutes. Ideol fol coniro of heoting, airconditioning, ventiloting, progromming etc. To set schedule simply depress the proper permanent ty olloched trippers that slide in ond out of diaf for fost, occurate seming. Diol is block on rellow for full, easy visibilify. Mechanism readily removable from cese by pressing single sping clasp. Construcled for easy instollation. Single Pole Single Throw - normolly open switch. Contocts rated to hondle 20 omps of 125 valts of cyele AC. Repeofs cycle withoup reselfing. $7 \%$
$3^{\prime \prime \prime}$. Shpg. wh. 4 lbs
MS-362 - For $105-125 V$; 60 cycle AC
Net
24.38

Type P961-Portoble Plug-in version of Tyoe T965 Cenfocis rated 10 amps of 125 volts -60 cycle AC MS.363 Shpg. wt., 6 lbs


TIME SWITCHES FOR WALL BOX INSTALLATION
dependable and versotile Itme switch to outomaticolly furn of ottic fans, porch and gorage lights, window lights, heoting units, etc. at any preset time. Hos speciol HOLD feature: furn of a knob culs oul timing mechonism and ollows unit to be vied os a regulor togale smilch Capocitr 20 omps, 125 volls AC. Sotin-chrome dial
 iths ony stondord rectangulor woll box. Shpo. wt.. 3 lbs MODEL 9024 - tlme ronge up to 1 hour
MS. 135
Net 4.86
MODEL 9015 - lime range up to 12 hours $\$$ hpg.wl., 2 ibs MS. 136
et 5.62
MODEL 2130 PORTABLE 2-SPEED PRECISION TIMER

- two timers for the price of one! - FOR PRECISE I SECOND TO I HOUR TIMING IN THE HOME, OFFICE AND LABORATORY indispensable for as boiling e99s, pressure cooking, heot and sun lamp treatment, home permanents, phota developing and printing. long distance colls, efc. Times up to 6 minutes in seconds and up to 1 hour in minutes. Exclusive 2-speed feacure permit: instant timing speed change by Alck of - lever. A clear, resonant bell sounds of end of liming period. Con be olloched to ony surface with hondy woll brocket supplied of con stand upright. Smarlly styled in white with dial foce o rich capper tane. $4^{\prime \prime} \approx 2 \frac{1 / 2 "}{}$. Shpg. wt., 2 lbs.



## INTERMATIC TIMERS

MODEL A211 TIME-ALL

## - the automatic timer with the

 MIRACLE MEMORYMakes practically everything electrical completely outo matic. Will hande load up to 1650 watts. Turns radio on and off - does nat hove to be resel each night. Defrasts refrigeratar - turns lights an ond off - cantrals rooster electric blonket, woshing mochine, coffee mokeri, vaporizers, etc. 30 min . minimum on lime - 23 hours mamimum. As easy to set as on electile clock. Siands on any surfoce - can be hung an wall. Eosy-to. reas 24 hour "day and night" dial. Operotes doy offer day without attention. Can be controlled manually without outomatic reset. Plug in receptocle for equipment to be controlled. For 110 volt 60 cycle AC oniy. Complete $\times 21 / \mathrm{m}^{\prime \prime}$. Shpg. w1., 2 lbs .
MS. 81
Nel 7.97
MODEL A221 TIME.ALL Similar to A211 encepl hos copacity of 875 wote
6.64

MODEL A401 CLOCK TIMER Not anly tells time, but lurns appliances beth on and of automaticolly for periods of 15 minutes to $51 / 8$ hours. controls electric fons, heaters, rodios TV sels, etc. No installation prablem - just plug it in ond set. Coposity 1850 walts. Plaskon cose $41 / 4=W=41 / y^{\prime \prime} H \times 21 /{ }^{\circ}=0$. 6 ft . cord. For 110 V 60 eycle AC. Guoranteed for 1 year. Shpe. Wi., 3 lbs. Price includes excise fox. MS-104

## MODEL 2090 UTILITY

 HOUSEHOLD TIMER- dependable 1 minute to 1 hour TIMING

This reliable, low-priced timer in o neat durable white plastic cose has innumerable household timing uses, i.e. cooking, boking, home permanents, games, remember ing oppolntments. TV and rodia progroms, eic. Atfroctive modern design. Times ony Interval up to one hour occur afely and gives resanont bell signal af end of period lorge eosy to set and easy to reod dial $31 / 3^{\prime \prime}$ \& $3^{\prime \prime}$ 1/,". Shpg. wl., $11 / 4$ lbs
MS-295
Nel 2.95

## MODEL 78174

 PHOTOGRAPHIC TIME SWITCH- UP TO SO SECONDS AUTOMATIC CONTROL - for amateur and professional use

It's easy ta contral accurate timing an photogrophic de velopers, enlargers, and phota capy equipment by plup ging them info the canvenience outlet on this inexpensive unit. Adjustoble stop mokes repeoted settings-even in total darkness-easy and foolproaf. Vimes up ta 60 sec* ands, then automatically shuts off current. Moy olso be used os "on-off" switch when timing is unnecessory. Rated 10 omps-125 volts-A.C. UL and CSA Inspected Shpg. wi.. 3 lbs. MS.714

# POTTER AND BRUMFIELD RELAYS 

\begin{tabular}{|c|c|c|c|c|c|}
\hline \& \& \& \& POW \& ER TYP \\
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62
\] \&  \&  \&  \& duty dris of 10 conters 2．31／32 \& \begin{tabular}{|c|}
\hline loys for \\
Silver \\
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\(2.5 / 32\)
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\text { Sho }
\end{array}
\] \&  \& coils \& 4.5v \& \[
A: D C
\] \& wotm． \\
\hline \& \& \& \& \& \\
\hline \[
\mathbf{c k}^{\prime}
\] \& colt \& 1－24 \& cestis \& \({ }_{\text {coch }} 51.74\) \& 75－909 \\
\hline － Y －10 \& bVAC \& 3.65 \& 3．47 \& \({ }^{3.28}\) \& 2.92 \\
\hline ary 11 \& 24Vac \& 3.65 \& 3.47 \& 3.28 \& 2.92 \\
\hline RY－12 \& ilsvac \& 3.65 \& 3.47 \& 3.28 \& 2.92 \\
\hline \& bVDC \& 3．35 \& 3.18 \& 3.02 \& 2.69 \\
\hline \& 12VDC \& 3.33 \& 3.18 \& 3.02 \& 2.69 \\
\hline ar－15 \& 2 VVDC \& 3.35 \& 3.18 \& 3.02 \& 2.69 \\
\hline \& \[
\begin{aligned}
\& \text { TrPE } \\
\& \text { OVAC }
\end{aligned}
\] \& \({ }^{5 A} 4{ }^{\text {an }}\) \& \& \& \\
\hline EY－18 \& givac \& 3.30
3.30
3 \& 3.13
3.13
3.3 \& 2.97
2.97 \& 2.4
2.64 \\
\hline ar 18 \& ilsvac \& 3.30 \& 3.13 \& 2.97 \& 2.04 \\
\hline RY－19 \& 230Vac \& 3.70 \& 3.52 \& 3.33 \& 2.96 \\
\hline RY－20 \& bvDe \& 3.05 \& 2.89 \& 2.74 \& 2.44 \\
\hline nY 21 \& 12 VDC \& 3.05
3.05 \& 2.88 \& 2.78 \& 2.44 \\
\hline RY－22 \& \({ }^{24 \mathrm{YDC}}\) \& 3.05 \& 2.89 \& 74 \& 2.44 \\
\hline \& TYPE \& lla and \& \％ \& \& \\
\hline RY－24 \& \({ }_{2} \mathrm{P} \mathrm{VAC}\) \& 4.6 \& 4.37 \& 4.14 \& \({ }_{3}^{3.69}\) \\
\hline ar－25 \& 1iskac \& 4.60 \& 4.37 \& 4.14 \& 3.69 \\
\hline RY－26 \& 230VaC \& 5.00 \& 4.75 \& 4.50 \& 4.0 \\
\hline （er \({ }_{\text {RY }}\) \& OVOC
12VDC
2VDe \& 4.40
4.40 \& 4.18 \& 3.98
3.98

3 \& 边3．53 <br>
\hline RY－29 \& 24vDC \& 4.40 \& 4.18 \& 3.96 \& 3.53 <br>
\hline \& TYFE \& ， \& $5{ }^{\text {c }}$ \& \& <br>
\hline －31 \& divac \& 5.35

5.55 \& | 3.28 |
| :--- |
| 3.28 | \& 4 \& <br>

\hline RYY 32 \& 113VAC \& | 5.53 |
| :--- |
| 5. | \& S．28 \& 4.9 \& 4 <br>

\hline RY－33 \& 230Vac \& 5.95 \& 3.65 \& 5.35 \& 4.76 <br>
\hline RY－34 \& bVDC \& 5.20 \& 4.94 \& 4.88 \& 4.16 <br>
\hline （2Y．33 \& 14VDC
24VDC \& 5.20
5.20 \& 4.94
4.94 \& 4.68 \& $4.1{ }^{4}$ <br>
\hline
\end{tabular}



MP SERIES－5nOD action SPDT reloys Ideol for starting split phare o．c．motors ore far 60 cDs．Mtg 4 －No． $6-32$ tapped holes，$\%$ x $\%$ on center Slze $1 \%$ $1 \% \times 2.5 / 16^{\prime \prime}$ ．Av． 5 hpg ．wt．． 4 oz

|  | TYPE MPSA |  | MP5D |  | $\begin{array}{r} 75.99 \\ \text { Each } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| STOCK | $\begin{aligned} & \text { COIL } \\ & \text { VOLTS } \end{aligned}$ | $\begin{aligned} & 1.24 \\ & \text { Each } \end{aligned}$ | $\begin{aligned} & 25.50 \\ & \text { Eesh } \end{aligned}$ | 51.74 Each |  |
| DY－37 | GVAC | 5.70 | 5.42 | 5.13 | 4.56 |
| 買Y－58 | 24VAC | 5.70 | 5.42 | 5.13 | 4.56 |
| RY－39 | IISVAC | 5.70 | 5.42 | 5.13 | 4.56 |
| WY－60 | 230Var． | 5.95 | 5.65 | 5.35 | 4.76 |
| RY－61 | I IOVAC | 6.50 | 6.18 | 5.35 | 5.20 |

PS SERIES－Entromely compact long life Dower reloys．Solder type ferminols Migs 4－No． $6-32$ taped hol omps $1.5 / 16^{\prime \prime}$ centers．Shps．wt．， 8 oz
TYPE PSIIA AND PSIIO

| STOCK | $\begin{aligned} & \text { COIL } \\ & \text { vOLTS } \end{aligned}$ | $\begin{aligned} & 1-24 \\ & \text { torh } \end{aligned}$ | $\begin{aligned} & 25-50 \\ & \text { Eorh } \end{aligned}$ | $51.74$ Eoch | $\begin{array}{r} 75.99 \\ \text { tach } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SY－82 | 6VAC | 7.00 | 7.22 | 6.84 | 6.08 |
| EY－63 | 24Vac | 7.60 | 7.22 | 6.4 | 6.08 |
| －Y－64 | 115 VAC | 7.60 | 7.22 | 6.84 | 6.08 |
| CY－65 | 230VAC | 8.00 | 7.60 | 7.20 | 6.40 |
| EY－46 | 110 VDC | 6.95 | 6.60 | 6.25 | 5.56 | ABC SERIES－For amall motars，ind ustrial DPDT silver contacts reted of 10 omps With dust cover，snop on ond acrow con． actors．Mte：2．Na．8－32＂itands $\%^{\prime \prime}$ long．Size： $1.15 / 32 \times 3 \times 2.3 / 32^{\prime \prime}$ ．Shpg

TYPE ABCIIAY AND ABCIID

| STOCK | $\begin{aligned} & \text { COll } \\ & \text { VOLTS } \end{aligned}$ | $\begin{aligned} & \text { 1-24 } \\ & \text { Each } \end{aligned}$ | 25.50 Eoch | 51.74 Eerh | $\begin{array}{r} 75.90 \\ \text { Eech } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 8Y－67 | GVAC | 6.10 | 5.80 | 5.50 | 4.90 |
| RY－68 | 24VAC | 0.10 | 5.80 | 5.50 | 4.90 |
| RY－69 | 115 VAC | 6.10 | 5.80 | 5.50 | 4.90 |
| RY－70 | 230VaC | 6.50 | 6.17 | 5.85 | 5.20 |
| RY－71 | 110 VDC | 6.50 | 6.17 | 5.85 | 5.20 |

P SERIES－For heovy duty industria control use．Silver contocts roted at 15 omps，except of 20 amps．Power .7 to 10 v．o．+ contorts normolly open．A．C． coils for 60 cps．Mig： $2-3 / 16^{\circ}$ diom．on $7 / \mathrm{m}^{\prime \prime}$ senters．Size， $21 / 2=21 / 3=3 \%$ ．Av． Shog．wt． 12 oz ．

| STOCM | $\begin{aligned} & \text { COIS } \\ & \text { VOL15 } \end{aligned}$ | $\begin{aligned} & 1.24 \\ & \text { Eoch } \end{aligned}$ | $\begin{aligned} & 25.50 \\ & \text { Eosh } \end{aligned}$ | 51.74 Each | $\begin{array}{r} 75.99 \\ \text { Eoch } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| QY－37 | 6VAC | 3.95 | 3.75 | 3.55 | 3.16 |
| RY－38 | 24VAC | 3.95 | 3.75 | 3.55 | 3.16 |
| RY－39 | IISVAC | 3.95 | 3.75 | 3.55 | 3.16 |
| RY－40 | 230VAC | 4.30 | 4.08 | 3.86 | 3.43 |
| EY－4 | lilovdc | 4.55 | 4.32 | 4.09 | 3.64 |
|  | TVPE PRSAY AND PRSD |  |  | SPDT |  |
| WY－42 | GVAC | 4.15 | 3.94 | 3.73 | 3.32 |
| WY－43 | 24VAC | 4.15 | 3.94 | 3.73 | 3.32 |
| 9Y－44 | IISVAC | 4.15 | 3.94 | 3.73 | 3.12 |
| RY－4s | 230VAC | 4.55 | 4.32 | 4.09 | 3.64 |
| WY－46 | 110 VDC | 4.75 | 4.51 | 4.27 | 3.80 |
|  | TYPE P俭AY AND PRTD t |  |  | topst |  |
| EY－47 | GVAC | 4.65 | 4.42 | 4.19 | 3.72 |
| 曾Y－48 | 24VAC | 4.65 | 4.42 | 4.19 | 3.72 |
| EY－49 | IISVAC | 4.65 | 4.42 | 4.19 | 3.72 |
| 䀢Y．50 | 230 VAC | 5.05 | 4.79 | 4.54 | 4.04 |
| $\mathrm{R} Y-51$ | 110VDC | 5.25 | AND Plilo | DPDI | 4.20 |
|  | TYPE PRIIAY |  |  |  |  |
| CY－52 |  |  | 5.84 | 5.53 | 4.92 |
| －Y－53 | 24 VAC | 6.15 | 5.84 | 5.53 | 4.92 |
| 椇Y－54 | 115 VAC | 6.15 | 5.84 | 5.53 | 4.92 |
| RY－35 | 230VAC | 6.55 | 6.22 | 5.89 | 5.24 |
| QY－56 | l10VDC | 6.75 | 6.41 | 6.07 | 5.40 |
|  |  | CA3 <br> Sold <br> doub <br> Mig： <br> 5． $5 i$ | moll size erminals． reok cont $10^{\text {＂}}$ diom． $1.11 / 16$ | ． <br> high SPST． tocts，rat holes on － $11 / 4$ | rer re rmolly of 10 7／32 2 $\%$＂ |

GENERAL PURPOSE RELAYS


KRP SERES－Versolit mulfi－contoct re lays．Enclosed in polystrrene dusi cover Std．octal－iype plue 8 pin for KRPS s and hacts roted at 10 omps．Sire， $2=1.13 / 32$ ＝ $1.13 / 32^{\prime \prime}$ ．Shpg．wi．， 5 of

TYPE KRPSAG AND KRPSDG SPDT

|  |  |  |  |  | 迷 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| cres |  |  | 3：8 |  |  |  |  |
|  |  | 退 |  |  |  |  |  |

TVPE KRPIIAG AND KEPIIDG DPDT

| RY－93 | 6VAC | 5.95 | 5.66 | 5.36 | 4.75 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| RY－94 | $24 V A C$ | 5.95 | 5.66 | 5.36 | 4.75 |
| RY－95 | $115 V A C$ | 5.95 | 5.66 | 5.36 | 4.75 |
| RY－96 | $6 V D C$ | 5.90 | 5.61 | 5.31 | 4.70 |
| RY－97 | $12 V D C$ | 5.90 | 5.61 | 5.31 | 4.70 |
| QY－98 | $24 V D C$ | 5.90 | 5.61 | 5.31 | 4.70 |

TPE KiPIAAG AND KRPIADG 3PDI

| RY－90 | 6VAC | 7.45 | 7.08 | 6.71 | 5.95 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| RY－100 | $24 V A C$ | 7.45 | 7.08 | 6.71 | 5.95 |
| RY－101 | $115 V A C$ | 7.45 | 7.08 | 6.71 | 5.95 |
| RY－102 | $6 V D C$ | 7.40 | 7.03 | 6.66 | 5.90 |
| RY－103 | $12 V D C$ | 7.40 | 7.03 | 6.66 | 5.90 |
| RY－104 | $24 V D C$ | 7.40 | 7.03 | 6.66 | 5.90 |

Amphenol 146－103 sockets．For KRP relays encept KRP14＇s．Borrier tyo octol soctets．Meets N．E．M．A．ond UL requirements．Mrg．centers $1-11 / 16^{\prime \prime}$ ．Shipg．wt．， 5 oz．

Amphenol 77 MIPII Soctrets． 11 pin socket for KRple nelays．With retainer ring．Requires $1 \mathrm{k} / \mathrm{m}$ hole． Shpg．wi．， 2 oz ．

| $5 T O C K$ | $\begin{aligned} & \text { COIL } \\ & \text { VOLTS } \end{aligned}$ | $1-24$ Each | $\begin{aligned} & 25.50 \\ & \text { Eorh } \end{aligned}$ | 51.74 Each | $\begin{array}{r} 75.99 \\ \text { Each } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| EY－75 | 6VAC | 6.50 | 6.17 | 5.85 | 5.2 |
| Lr－76 | 24VAC | 6.50 | 8.17 | 5.85 | 5.2 |
| 貫Y－77 | 115 VAC | 6.50 | 6.17 | 3.85 | 5.2 |

AE 5ERIES－For oppliance and generol purpere operotions．Rupged ond aviet Mtg 2－No． 8.32 tapped holes on 1 km centers．Size， $1-29 / 32 \geq 1 \%, 3^{\prime}$ Av

TYPE ABIIAY AND AEIID

| STOCK | COIS | $1-24$ | 25.50 | 51.74 | 75.99 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | VOBTS | Each | Each | Each | Eoch |


| t | VORTS |
| :---: | :---: |
| RY－78 | 6 VAC |
| BY．79 | 24 VAC |
| QY－80 | 115 VAC |
| RY． 81 | 230 VAC |

Type 5P11A－Medium duty shack proof relays，with bolanced ormoture for ofl ongle mounling．DPDT iliver contacts rated cps．Mitg：2．no．6－32 tapped holes on $13 / 16^{\prime \prime}$ centers．Size $1-23 / 32 \times 11 / 6^{\prime \prime}$ ．Shpg．wi．． 10 az．

| Y－82 | 110 VDC | 5.45 | 5.17 | 4.90 | 4.36 |
| :--- | :--- | :--- | :--- | :--- | :--- |

Type MB3D－Minioture de contactors． terminols．Mig rofed at 60 ．No amps；solder $3 /{ }^{\prime \prime}$ centers．Size． $1.13 / 32 \times 27 / 32$ ． $1.21 / 32^{\prime \prime}$ ．Shog wt． 10 oz


|  | $\begin{aligned} & \text { COLL } \\ & \text { VOLTS } \end{aligned}$ | $\begin{aligned} & 1-24 \\ & \text { Eoch } \end{aligned}$ | $\begin{aligned} & 25.50 \\ & \text { Earh } \end{aligned}$ | 51.74 Eoch | 75.99 Eosh |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TY－83 | 6 VOC | 5.15 | 4.89 | 4.79 | 4.13 |
| RY－84 | 12 VDC | 3.25 | 4.99 | 4.72 | 4.19 |
| EY－85 | 24VDC | 5.25 | 4.99 | 4.72 | 4.19 |
| RY－86 | 110 VDC | 5.65 | 5.37 | 5.00 | 4.52 |

FEDERAL CONTACT PROTECTORS
For protection of reloy contacts in Inductive circuits．times per sec and drawing up to 600 ma of 150 volis， Install across inductive elemont to suppress＂inductive kick．＂orcing ond $R F$ transionts．These units are mode of selonium rectifier cells．For relare operating up to 40

| Type | $v$ | Max. | $\begin{aligned} & \text { Min. } \\ & V . \end{aligned}$ | Size | Ne： |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $852 P 52$ | 52 | 200 | 27AC | 25／64＂${ }^{\prime \prime}$（3／4＂ | 1.0 |
| 15A2P52 | 130 | 200 | 105AC | 25／32 ${ }^{\prime \prime} 15 / 16^{\prime \prime}$ | 1.32 |
| 845PSS | 130 | 400 | 105AC | 1／2＂M15／16＂ | 1.6 |
| 15ASP55 | 781 | 200 | 53AC | 25／64＂x 3／4＂ | 2.08 |
| 852PS 1 | 441 | 250 | 230C | 25／64＊ム 5／8＂ | 0 |

KA SERIE5－For low power loods such os moll motors，solenoids ond generol ou． omotion work．Silver cantocts rated of 5 coll for 60 cps Mis．1．No 6.32 sind ond osating lob．Sizer $1 \% \mathrm{~m} 1.1 / 16 \mathrm{~m}$

TYPE KASAY AND KASD SPDT

$1-27 / 32^{\prime \prime}$ ．Shpg，Sizer 0

|  | $\begin{aligned} & \text { COI\& } \\ & \text { VOLTS } \end{aligned}$ | $\begin{aligned} & 1-24 \\ & \text { Each } \end{aligned}$ | $\begin{aligned} & 25.50 \\ & \text { Eash } \end{aligned}$ | 51.74 Eerh | $\begin{array}{r} 75.99 \\ \text { Eoch } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| RY－105 | GVAC | 3.05 | 2.90 | 2.75 | 2.45 |
| RY－106 | 24VAC． | 3.05 | 2.90 | 2.75 | 2.45 |
| QY－107 | $115 V A C$ | 3.05 | 2.90 | 2.75 | 2.45 |
| S $\mathrm{Y}-108$ | 6VDC | 2.90 | 2.76 | 2.61 | 2.32 |
|  | 12 VDC | 2.90 | 2.76 | 2.61 | 2.32 |
| CY－110 | 24VDC | 2.90 | 2.76 | 2.61 | 2.32 |
|  | TYPE KAIIAY AND KAIID DP |  |  |  |  |
| RY－111 | GVAC | 3.65 | 3.47 | 3.28 | 2.92 |
| CY－112 | 24VAC | 3.65 | 3.47 | 3.28 | 2.92 |
| 8Y－113 | IISVAC | 3.65 | 3.47 | 3.28 | 2.92 |
| CY－114 | 6VDC | 3.25 | 3.09 | 2.92 | 2.60 |
| RY－115 | 12VDC | 3.25 | 3.09 | 2.92 | 2.60 |
| AY－116 | 24VDC | 3.25 | 3.09 | 2.92 | 2.60 |
|  | TYPE KAIAAT AND |  | KA1 | 3PDT |  |
| RY－117 | GVAC | 4.05 | 3.85 | 3.65 | 3.25 |
| RY－118 | 24VAC | 4.05 | 3.85 | 3.65 | 3.25 |
| 日Y－119 | IISVAC | 4.05 | 3.85 | 3.65 | 3.25 |
| RY－120 | 6VDC | 3.65 | 3.47 | 3.28 | 2.92 |
| RY－121 | 12 VDC | 3.65 | 3.47 | 3.28 | 2.92 |
| EY－122 | 24VDC | 3.65 | 3.47 | 3．28 | 2.92 |



A SERUES－Multiple loof，oll purpos colay，permitting o wide ronge of contac combinations．Maisture and shock resiss． ant．Sitver plated contacts rated of 5 amps．AC cails for 00 cps ．Mig：No．8－32 $25 / 32 \times 1 m 1-11 / 16^{m}$ ．Shpe．wi．， 10 oz

TYE GAIIA AND GAIID DPDI

| stock | $\begin{aligned} & \text { COIS } \\ & \text { VOLTS } \end{aligned}$ | $\begin{aligned} & 1.24 \\ & \text { Each } \end{aligned}$ | $\begin{aligned} & 25.50 \\ & \text { Each } \end{aligned}$ | 51.74 Eoch | $\begin{array}{r} 75.09 \\ \text { Each } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| RY－123 | 6VAC | 3.20 | 3.04 | 2．87 | 2.56 |
| 伿 Y－124 | 24 VAC | 3.20 | 3.04 | 2.87 | 2.56 |
| RY－125 | 115 VAC | 3.20 | 3.04 | 2.87 | 2.56 |
| RY－126 | 6VDC | 3.20 | 3.04 | 2.87 | 2.56 |
| RY－127 | 12VDC | 3.20 | 3.04 | 2.87 | 2.56 |
| RY－128 | 24 VDC | 3.30 | 3.04 | 2.87 | 2.56 |
|  | TYPE | GAITA AND | GA170 | 4PD1 |  |
| RY－129 | GVAC | 4.60 | 4.37 | 4.13 | 3.70 |
| QY－130 | 24 VAC | 4.60 | 4.37 | 4.13 | 3.70 |
| \％Y－131 | IISVAC | 4.60 | 4.37 | 4.13 | 3.70 |
| 2 R －132 | 6VDC | 4.60 | 4.37 | 4.13 | 3.70 |
| RY－133 | 12 VDC | 4.60 | 4.37 | 4.13 | 3.70 |
| RY．134 | 24 VDC | 4.60 | 4.37 | 4.13 | 3.70 |

## POTTER AND BRUMFIELD RELAYS

## PLATE CIRCUIT AND SENSITIVE RELAYS



| STOCK | COIL | $1-24$ | 25.50 | 51.74 | $75-99$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| NO. | OMMS | Earh | EOrh | Eoch | Eech |
| RY-144 | 2500 | 2.35 | 2.23 | 2.11 | 1.88 |
| RY.145 | 5000 | 2.55 | 2.42 | 2.29 | 2.04 |
| RY-146 | 10000 | 2.70 | 2.57 | 2.43 | 2.16 |

LM SERIES. High quality plote circuit relays with sensitivity of 100 mw . for single pole. Adiustable pull-in. Silver
contacis rated of 5 amps. 115 थ., 80
 DPDI. M1g: 2.no. 6.32 topped holes on $13 / 16^{\prime \prime}$ centers. Sire: $29 / 16 \times 2 \%$ $3 / 16^{\prime \prime}$. Shpg. wh., 9 oz.
TYPE LMS SPDT

| $\begin{aligned} & \text { STOCK } \\ & \text { NO. } \end{aligned}$ | $\begin{aligned} & \text { COIL } \\ & \text { OHMS } \end{aligned}$ |  | 1-24 | farh | 53.74 | $\begin{array}{r} 75-99 \\ \text { Each } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RY. 147 | 2500 | 0.3 | 3.70 | 3.52 | 3.33 | 2.96 |
| RY-148 | 5000 | 4.5 | 3.90 | 3.70 | 3.50 | 3.11 |
| RY-149 | 10000 | 3.2 | 4.20 | 3.99 | 3.78 | 3.36 |
|  | TYPE LMII DPDF |  |  |  |  |  |
| RY-150 | 2500 | 9.0 | 5.30 | 5.02 | 4.76 | 4.14 |
| RY-151 | 5000 | 6.3 | 5.80 | 5.32 | 5.04 | 4.48 |
| RY-152 | 10000 | 4.5 | 6.05 | 5.76 | 5.35 | 4.83 |

metically seoled $D C$ relays for aircroft and missile use. Sensiflifity: 40 mw for age octuated units. Withstands 10 G vibration to 500 cDt . SPDT silver con lacts roted of 2 amps. Migi sid. 7 -pi minioture lube socket. Size $\% / 4$ dio.
$111 / 16^{\prime \prime}$. Plote circuit type. Av. shpo. $11 / 16^{\prime \prime}$
$w+.$.
ar

## TVPE PWSD

| $\begin{aligned} & \text { STOCK } \\ & \text { NO. } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { COIL } \\ \text { v. or Ma. } \\ \hline \end{gathered}$ | COIL OHMS | $\begin{aligned} & 1.24 \\ & \text { Each } \end{aligned}$ | $25.50$ Each | 51.74 Each | $\begin{array}{r} 75.99 \\ \text { Each } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M-153 | 8V | 202 | 10.25 | 9.75 | 9.23 | 8.21 |
| RY-154 | 12 V | 810 | 10.25 | 9.75 | 9.23 | 8.21 |
| RY-155 | 24 V | 3240 | 10.25 | 9.75 | 9.23 | 8.21 |
| TYPE PW5L5* |  |  |  |  |  |  |


| RY-156 | $2.8 M A$ | 5000 | 10.60 | 10.07 | 9.54 | 8.48 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $R Y-157$ | 2 MA | 10000 | 11.00 | 10.45 | 9.90 | 8.80 |

TYPE RSSD. Low cost, light weight, sensifive reloys for rodiosonde. IIghi dimmer bor pollodium contacts roted ot 2 omps 115 y or or 28 vode. M19: $2-4-40$ screws. wf. 3 oz.


| COIL | 1.24 | $25-50$ | $51-74$ | 75 | 59 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| OMMS | EOCH | E5 |  |  |  |

TYPE LB5. Low cost, fast-acting units, Breali-down 500 V , rms min. SPDI silver contocls rated of 5 omps. Miga $2 \cdot 3 / 16^{\circ}$ dio. on $27 / 32^{\circ}$ centers. Size 13 y $11 / 4$
$\times 221 / 32^{\circ}$. For $D C$ only. Shog. w1. 5 02.



TYPE S5SD. Uliro sonsitive procision such os instruments and bridge balancing Dual series cails with balanced ormature Sensilivity. 10 mw . Coil ohms, 10,000 Mrg: 2-no. 6.32 rapped holes on 23/32 Shpg. wt., 8 ox.

$$
\begin{aligned}
& 12.00 .25-50, \text { EA } \\
& 10.80 .75 .99, \text { EA }
\end{aligned}
$$

## SPECIAL PURPOSE RELAYS



KM SERIES. Sub-Miniature Relays Thy
For multiple switching. Solder lug ier. minols. Mig: no. 2.56 topped care and locoling bars. Size, $53 / 64 \times 35 / 64$ TYPE KMSD SPDT



TYPEKBI7AG\& KB14DG, Latching Re* lays. Ideal for memory work and over load uses. Both release and trip coils must be for the some voltoge. One coil releoses it. Operates on momentary impulse to either cail. SPD I silver confocts ro'ed of 10 omps. $\mathrm{M}: 9$ : $2 \cdot 5 / 32^{\prime \prime}$ holes Shpg. wi.. 10 oz. 60 eycle \begin{tabular}{l|c|c|c|c|c|c|}
\hline STOCK \& COIL \& 1.24 \& 25.50 \& 51.74 \& 75.99

 

MO. \& YOHS \& Earh \& Eorh \& Each <br>
\hline RY-167 Eorh \& IISVAC: \& 10.10 \& 8.80 \& 0.09 <br>
RY-168 \& $24 V A C$. \& 10.10 \& 8.08
\end{tabular} RY-168 RY-169

RY- 170 RY-171 RY-171
RY-172


LK SERIES. Hermetically seoled lotching reloy. WPDT silver contacts rated af 3-no. 8.32 studs on $2 \mathrm{~V}^{\prime \prime} \times \mathrm{V}^{\prime \prime}$ centers.


| STOCK | P\& \& | COIL | 1.24 | 25.50 | 51.74 | 75.99 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| NO. | TYPE | VOLT5 | EORh | EORH | EOCh | EOCh |
| RY-198 | $1 K 17 A H$ | $115 V$ | 19.00 | 18.05 | 17.10 | 15.20 |
| RY.199 | $1 K 17 D H$ | $24 V$ | 18.50 | 17.57 | 16.65 | 14.80 |



KE SERIES. Subminiolure Lofshing Re leys. Merhanical lotch, electrical releose. Operates on momentary impulse to elither coil. For intermittent duty only. Silver contocts roted of 2 amps. Mig.: 2-5/32 ${ }^{\circ}$ ically seoled. Mig. requires 3.no. 6.32 studs. Size, i $5 / 16 \times 1 \% \times 1 \% \mathrm{kM}$. Shpg.


## LAFAYETTE SPECIAL! HIGH SENSITIVITY <br> meter relay - meter movement closes circuit AT 2 mils



Exiremely sensitive meter type relay. Normolly open. Ideolly suited for uses with model rollrood, photoelectric relay circuit, baby-tenders, remote control soys, remote cations. Precisione olarm, and many other practical oppli friction-free movement. Contoct will clos of 2 milliomps Infernal resistance 1500 ohms. Sensitivity 2 milliomps Infernol resistonce 1500 ohms. Sensitivity: 2.5 .6 mm . Infernolly odiustoble. Relay is enclosed entirely and transporent cover permits observotion. Solder pins ore ploced
externolly for eosy conmections. Size: $11 / 4 \times 1 \% \times 1 / 4^{\prime \prime}$. Shpg. wl. 8 or
F. 482

Not 3.95


GP SERIES-Entreme versatifity is offorded by this series of sepor ole AC. DC
coils ond DPDT or 4 PDT switches. Com. bine to-form 20 different relays. Ideal for lob and experimentol wort. Silver contocls. AC ceils for 60 cps. Size of as. sembled reloy, 25/32 = $1 \times 1-11 / 76^{\prime \prime}$. Ay. Shpg. wl., 4 oz.

| $\begin{aligned} & \text { STOCK } \\ & \text { NO. } \\ & \hline \end{aligned}$ | TYPE GPA COIL volis | $\begin{aligned} & \text { AND } \\ & 1-24 \\ & \text { Each } \end{aligned}$ | $\begin{aligned} & \text { GPD } \\ & \text { 25-50 } \\ & \text { Eech } \end{aligned}$ | $\left\lvert\, \begin{gathered} 51.74 \\ \text { Eoch } \end{gathered}\right.$ | $\begin{array}{r} 75.99 \\ \text { Each } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| RY-208 | GVAC | 1.55 | 1.47 | 1.39 | 1.24 |
| RY-209 | 24VAC | 1.55 | 1.47 | 1.39 | 1.24 |
| RY-210 | 115 VAC | 1.55 | 1.47 | 1.39 | 1.24 |
| RY-211 | 230VAC | 2.00 | 1.90 | 1.80 | 1.60 |
| QY-212 | OVDC | 2.00 | 1.90 | 1.80 | 1.60 |
| RY-213 | 12 VDC | 2.00 | 1.90 | 1.80 | 1.60 |
| RY-214 | 2:VDC | 2.00 | 1.90 | 1.80 | 1.60 |
| RY-215 | 110 VDC | 3.00 | 2.85 | 2.70 | 2.40 |
| RY-21\% | 2500 ohms | 1.45 | 1.37 | 1.30 | 1.16 |
| RY-217 | 10K ohms | 2.00 | 1.90 | 1.80 | 1.60 |
|  | SWITCHES |  |  |  |  |
| STOCK NO. |  | $1-24$ Each | $\xrightarrow{25-50}$ | 51.74 | 75.99 |
| RY-218 | GPII.DPDT | Eoch | $\frac{\text { Eoch }}{1.52}$ | Eoch | $\xrightarrow{\text { Each }}$ |
| RY-219 | GPI7.4DPDT | 2.80 | 2.66 | 2.52 | 2.24 |
|  | KL SERIES-Comport, versalile multiple contact reloys. Voried contoct comblno tions and high dielectric phenolic insulotion. 4PDT silver contosts paled of 5 amps. 115 valts, 60 cps . Mig: 2 . No. 6.32 rapped holes on $1.7 / 16^{\circ}$ centers. Size. $1.15 / 16$ - $1.23 / 32 \times 2.1 / 32^{\prime \prime}$. Shag. wf. . 4 or. |  |  |  |  |



|  | PC SERIES Lofching Relays. Single coil impulse latching relays for on-off and current reversal switching on alternate pulses. Operotes on 30 millisecond pulses to the coil. Gold-floshed silver codmium oxide contacts roted of 10 omps. MIg: $2 \cdot 5 / 32^{\prime \prime}$ dia. holes on $2 \%$ " $\%$ " centers. Size, $25 / 64 \times 21 / 16 \times 231 / 32^{\prime \prime}$. Shpg. Wh., 10 or. |
| :---: | :---: |


| $\begin{aligned} & \text { STOCK } \\ & \text { NO. } \end{aligned}$ | TYPE | PCIIA COIL <br> voIts | $\begin{aligned} & \text { AND PCI } \\ & \left\lvert\, \begin{array}{r} 1.24 \\ \text { Eoch } \end{array}\right. \end{aligned}$ | $\begin{aligned} & 1100 \\ & 25.50 \\ & \text { Eoch } \end{aligned}$ | $\begin{aligned} & \text { Di } \\ & 51.74 \\ & \text { Eoch } \end{aligned}$ | $75.99$ Each |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RY-200 |  | OVAC | 5.25 | 4.98 | $4.7 \overline{2}$ | 4.20 |
| RY-201 |  | 2AVAC | 5.25 | 4.98 | 4.72 | 4.20 |
| RY-202 |  | IISVAC | 5.25 | 4.98 | 4.72 | 4.20 |
| R Y-203 |  | 24VDC | 5.10 | 4.84 | 4.59 | 4.08 |
|  | TYPE | PCI7A | AND PCI | $704 P$ | T 5 |  |
| RY-204 |  | GVAC | 7.251 | 6.881 | 6.52 | 5.80 |
| RY-205 RY-206 |  | 24VAC | 7.25 | 6.88 | 6.52 | 5.80 |
| RY |  | lisvac | 7.25 | 6.88 | 6.52 | 5.80 |
| RY-207 |  | 24V0C | 7.10 | 6.741 | 6.391 | 5.68 |

byan


| STOCK NO. | $\begin{aligned} & \text { COIL } \\ & \text { VOLTS } \end{aligned}$ | $\begin{aligned} & 1.24 \\ & \text { Each } \end{aligned}$ | 25.50 Each | 51.74 Eoch | $\begin{array}{r} 75.99 \\ \text { Eoch } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| RY-194 | 6VAC | 3.50 | 3.32 | 3.15 | 2.80 |
| R Y. 195 | 115 VAC | 3.50 | 3.32 | 3.15 | 2.80 |
| R Y-196 | OVDC | 3.50 | 3.32 | 3.15 | 2.63 |
| RY-197 | 12 VDC | 3.50 | 3.32 | 3.15 | 2.80 |

Page 159

## POTTER AND BRUMFIELD－KURMAN RELAYS

## P\＆B RELAYS MICRO－MINIATURE RELAYS

SC SERIES．Mierominioture hermeticolly
seoled permonent mognet reloys，weigh． seoled permonent mognet reloys，weigh．
ing only $\% / /$ oz．Singto coil oction．DPDT gold．floshed pallodium cantocls roted of 350 ohms．Withstands 100 g shock． 30 g vibrotion to 2000 cps ．Temp．ronge．-65 $10+125^{\circ} \mathrm{C}$ ．Size， $11 / 32 \times \% \times 25 / 32^{\prime \prime}$ ． Shpg．Wl．， 3 or．Type SCIID for plug－in
to printed circuits．Type SCliba for 2.
 Type SCIIDB for $4 \%^{\prime \prime}$ dia holes on $12 / 32=9 / 32^{\prime \prime}$ centers．



SL SERIES．Duol coil，hermeticolly sealed， micro minioture mognetic lotehing relays，
weighing $\%$ oz．For low power，high whighing $\%$ oz．For low power，high
shoch／vibrotion uses．Coils moy be con． nected in serits for polor operotion．DPDT
gold－floshed pollodium contacts rated of gold．floshed pollodium contacls rated of
1 amp ．Coil voltage 24 v ；coil resistance， 350 ohms．Withstonds 100 g shock． 309 vibration to 200 cps ．Temp ronge，-69
to $\rightarrow 125$
C．Size
$1-1 / 32$ lo $\rightarrow 125$ C．Size $1-1 / 32 \# \%$ iz $25 / 32^{\prime \prime}$
Shpg．wt． 3 oz．Type stllo for plug．in Shpg．wt． 3 oz．Type Stllo for plug－i
to prinied circuits．Type stiloa fo $2.3 / 32 \times \%$ hales on $1.1 / 16$ centers．Type 51110 for
$4 \%$ dio holes on $1.2 / 32 \times 9 / 32^{\prime \prime}$ centers．



MG SERIES－Subminioture telephone type reloy for aircroff．compuler，and other applications requiring good shack and／or vibrotion charocteristics．Silver cantacts Mtg ： 4 lapped Na． 3.48 holes on $~ \$ / 6=$ ． mg ：centers．Size：$i$
$3 / 4 / 32 \times 111 / 10^{\prime \prime} \times 1$ $3 / 32^{\prime \prime}$ ．Shog．Wit．，of oz

| Syock | colts | 1－24． | 25．30 Eech | S1．74 | 75．99 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| （2Y．243 | 1 AVIM | 4.95 4.95 | 6．70 | $4 \cdot 45$ | 3.96 |
| RY－24才 RY－268 | 2ivin | 4.95 3.90 | 8．70 | － | 3．96 |
|  | TYPE MGI\％－ADOT |  |  |  |  |
|  | givix | 6．60 | 6.27 6.27 |  |  |
|  | 2木10 | 8.80 | 6.27 6.27 | 5.94 | 28 |
|  | ग⿴囗十介＊＊＊ | 7.05 | － POT $^{\text {a }}$ |  | 3．66 |
|  |  |  | 10.45 |  |  |
|  | 12vin | 11.00 11.00 | 10．4 | 9．90 | \％ |
| nr－250 | 1年vin | 11.80 | 10.45 11.02 | ${ }_{3} 9.94$ | 9．28 |



MH SERIES－Miniature iype．Stluer con－
Tocts rated of 2 amps．All Cocts roted of 2 ampl．All ${ }^{\text {4PDT except }}$ loppod Sealed．Mfo：MHIIL＇s－No． 0.32 models， 4 －No． $3-48$ holes on $3 / 4$ other errs． $1: 9 / 16 \times 25 / 32 \times 13 / 1 m^{\prime \prime}($（open）： 2 $1 / 2=1.1 / 32=1.11 / 16^{\circ}$（seoled）． 5 oz． （open） 6 oz．（seoled）．MHI 7 Series 4.5 MA

| STOCK | $\mathrm{corch}_{\text {or }}$ | ${ }^{1.24}$ | 25．50 | S1．74 | 78．99 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Nr－234 | ＂VAC | ${ }^{6.75}$ | ${ }^{6.41}$ | 6.08 | 3.40 |
| ny－236 | 万sima． | 6.75 | \％：1 | 6．08 | 3.40 3.80 |
| nv－23］ | 2＂以゙M | 5.75 8.78 | 5．46 | 5.10 | － 80 |
|  | tree mmitamm amo mmitom |  |  |  |  |
| ar． 230 |  | 25.00 | 23.75 10.05 | 22.50 17.10 |  |
| FY． 241 ar． ata | civin | 11：80 | 11．02 | 10．48 | 15.20 9.20 |
| srock | Triéso | 1.14 | 25－50 | 51.14 | Ster |
|  | M111117： | 5.75 9.70 | 5.46 9.81 | 5．10 | $\underset{\substack{4.60 \\ 7.7}}{\text { ce }}$ |



KURMAN RELAYS
SERIES 1002 －SUR－MINIATURE－High． est quollty sensitive reloy meeting both milifary and commercial DC reauirements． Sensitivity－ 40 milli－wotls－DPDI．Mount． ing 24.40 screws on $1 / 2 "$ centers．Size： $9.75 \times 13 / 4^{\prime \prime}$ ．Shpg．wt．， 9 oz．


SERIES 26D－DUST COVER－In cleor polystryene enclosure．Avalloble up to 3FDr with standord contacts，roted af 10 omps．Mountinga ${ }^{8}$ pin octol plug in for for 3PDT． $1 \%$ ※ $21 / 16$ ．Shpg．wh．， 8 oz．



SERIES SIC－MIDGET－Smallest lightest plate circuit reloy offering self wiping contacts．DC only．Stondard odiustment－ of 5 Milliwaths．Adiustable 2 amp odiusted． 1 omp．SPDT Screw Confods Mounting 2 6.32 popped hales an 0.437 Mounting 2 o． 32 ropped holes an 0.437 centers．Oper－ oting Current 51 CA430 1.2 mA ． 440 Shpg．Size： $11 / 32 \times 1 \% \times 15 / 16^{\prime \prime}$ Shpg．wh．， 60 O.
$\qquad$



SERIES SDIC－All standard operoting charocteristics of Serles SIC onclosed in Polysterene plus－in unit，Reloy easily re－ movable for odiustments． 8 pin octal plug．
 ing current：SDICA37D－4 SMA， 10.2 .3 MA ， 420.1 .4 MA ．$\quad 430.1 .2 \mathrm{MA}, \quad 140-06 \mathrm{MA}$ ． stock Kize： $11 / /^{\prime \prime}$＝ $21 / 16$ ．Shpa．wi．． 9 of



NO

$\qquad$


## trpe


$\left|\begin{array}{l|}5.01 \\ 3.81 \\ 3.82 \\ 5.30 \\ 5.10 \\ 7.20 \\ 7.20\end{array}\right|$

### 5.18 5.48 5.48 5.95 5.48 6.80



SERIESKXI－MICRO MINIATUEE－ Equipped with speciol DPDT 2 omp con－ Equlpped with speciol DPDT 2 omp con－
tacts roted to eorry ony lood from dry cocts roted to eorry ony lood from dry
sircuit to full roting． $1 / 10^{\circ}$ grid spoce sircuit to full reting． $1 / 10^{\prime \prime}$ grid ${ }^{\text {spoce }}$
heoder．Nominol operating power 250 heoder．Nominol operating power plug
milliwatts．All soldder conn．excepl in．Withstonds 20G， 2000 excle vibrotion and 50 G shock immunity．Frictionless bearing assures lang life．Cose O plug in Case C Cose D hange mi．middle of C （10．0． mp ．frant of cose．Size case．Cose E hange Shpo．Wt．， 4 oze


SERIES 23D－DUST COVERED MIDGET －Light weigh（Il $1 / 2$ ars．）sensitive reloy， ideal for all circuiss where space，economy DC operation．Adiustments screw conlacts and spring temsion．Mountings $26-32$ too－ ped holes on $0.437^{\prime \prime}$ senters．Enclosed in clear polystyrene case．Mounting 8 in octot plug－in．Size： $1 \%$ a $2-1 / 16$ ．Shps TYPE 230 OC


## SERIES 262C－263C－MEDIUM POWER

 －The DPDT and 3PDT relays feotures self． wiping contacts，which will continuously double notke or break operation．AC or OC coils．This high speod relay will hon dle the malority of all power oppllicotions． Standerd operoting power； 1 walf－DPDT； $11 / 2$ wotts－3PD1，Mounting： 40.32 top－ Shpg．wr．on 13 ，

| s yocm | K×172 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| mo． | Votis | Enen | roch | Eacn | Each |
|  | BVIM | 13．03 | 18.15 13.15 | \％14．38 | 13.55 13.58 13.55 |
| ［Y．30\％ | ${ }_{24}^{2}$ VIN | 13.93 13.05 | 13.15 13.15 | 21．36 | 13.58 13.35 |

## 




## HERMETICALIY SEALED

SMOOUE－MINIATURE IELEPHONE－ This relay avipped with 4 PDT cantacts roted of 3 amp．Operating from a 26.5 V OC maninal input source．Solder lug termi nals．Hermetic enclosure makes the reloy impervious to all delrimental conditions， including contaminating goses，dust，solt， $3 / 10^{\prime \prime}$ ieng 36.32 studs on $15 / 10^{\prime \prime}$ $13 / 10^{\prime \prime}$ centers．Shpg．wl．， 1 lb ．

\＃ 26520 －HEAVY DUTY－Hermeticolly iooled，equipped with heory duty con． itruetion，binering contocts roled of 25 nol and offers a standar DPDP nol，ond ofers a ztandord DPDI construs． tion．Con be externally wired for double－ moke or break arrangements．Excellent for all industriol ond other remote power
controls．Mounting $48-32$ studi on $11 / 4 "$ $x 11 / \mathbf{z}^{\prime \prime}$ conters．Shpe．wt．， 1 lb ．

| sroek |
| :---: |
| Rr．301 |
|  |
|  |
| ar－302 |

\＃28SO1－MEDIUM POWEE－Hermotic－
olly seoted reloy．DPDT confacts－raled ot ally soolod reley．DPDT contacts－raled at
10 amps． 115 SV AC nominal soil apera． tion．Equipped with octol plug－in．Smoll －nclosures．Mounting： 8 in octol plug．in

## LITTLE＂JEWEL＂REMOTE CONTROL RELAYS

－The Mighty Mite of the R Cleld
－Weighs less than $1 / 2$ oz． 1
－Size： $1 / 4 \mathrm{H}$ ， 17／32＂W，

A noturol for remate confrol receivers，It is highty sensitive，ond built to withstond severe crashes．The smon $1 /$, or．Foctory odiusiled io puil in weighs less drap out al 1.2 MA D．C．Single pole double throw． Used in oulstonding R／C receivers．$S^{S}, 000$ ohm coil． IMPORTED TO SAVE YOU MONEY．
F－260－Reloy
Not 2.75

## SMOO4F－ 400 CYCLE－Equipped with

 internol rectifiers．Nominal operation－ ured on frequencies os law os 60 cps）． used on reavencies os 10 m as 60 （pl）．$4 P D T$ contocts rated of 3 omp ．Excellont vibration and shock choracteristlas．Solder vibration and shock chorocteristiks．Soldor $15 / 10^{\prime \prime}=13 / 18^{\prime \prime}$ conters．


## TYPE JAG STANDARD FUSES

quirk arting fine Imw lime-las apubirations rurh as ampli-




## TYPE 8 AG INSTRUMENT FUSES

| Ifeslomel eqult-nifi III Litt solt. Ru ralerl 12. |  | h-inper rifuse tm at at 2i: |  | in proter serles <br> olis. Pxep irouch 4 <br>  | dellf <br> Hus: <br> M: |  | firal rles. 12 imp |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Littel. Fuse = | Ampt | Per | $\begin{aligned} & \text { Per } \\ & \mathrm{C} \end{aligned}$ | Littel. Fuse = | Amps | Per PEs. | $\begin{aligned} & \text { Per } \\ & \text { C } \end{aligned}$ |
| 361.002 | 1/im | 3.33 | 58.80 | 361.500 | , | 39 | 6.37 |
| 361.005 | 1/2m | 1.88 | 24.50 | 361.750 | 0 |  |  |
| 361.010 | 1/100 | 1.34 | 22.05 |  |  |  |  |
| 361.031 | 1/72 | 1.19 | 19.60 | 361001 |  |  |  |
| 361.062 | 1/16 | 79 | 1324 | 36101.5 | 112 |  |  |
| 361.125 | 1/8 | 59 | 9.80 | 361002. |  | . 29 | 4.90 |
| $\begin{aligned} & 361.250 \\ & 361.375 \end{aligned}$ | $\begin{aligned} & 1 / 4 \\ & 3 / 8 \end{aligned}$ | . 39 | 6.37 | 361003. 361005. | 3 5 |  |  |

## 3AG SLOW BLOW PIGTAIL FUSES

Widely used In TV receivers. Iteskigned 10 withstand heavy surzex and Instintaneous peaks yet quick acting uniter short clrrult. Littelfuse 3150013 serlen. Fiur liuss. specify


 ENT FUSES

\section*{| tizart TV replarement |  |  |
| :---: | :---: | :---: |
|  |  |  |
| size rangus. Littrifus |  |  |
| type 6. Maled 2isf voll |  |  |
|  |  |  |
| Littel. |  | Per |
| F9xs = | Amps | Pk |
| 332.032 | 1/32 |  |
| 332.062 | 1/16 | 63 |
| 332.125 | 1/A |  |
| 332.187 | 3/16 |  |
| 332.250 | 1/4 |  |
| 332.300 | $3 / 10$ | 48 |
| 332.375 | $3 / 6$ |  |
| 332.500 | 1/2 |  |
| 332.750 | 3/4 |  |
| 332001 | 1 |  |
| 3321.25 | 1/4 | 2 |
|  | $11 / 2$ |  |
|  |  |  | <br>  <br>  <br> SNAP-ON FUSE HOLDER <br> MS-259. Wf., 4 oz...N.VPII 8 c Cline nide of dual}

NEWI MINIATURE FUSE EXTRACTOR POST

## Nhortent 3ac suae poat. Tent Prod. hole in knuried knob, Terminale destaned for easy solacring. Shortent behind Panel



MINI BREAKER

- U.L. APPROVED-NOT A FUSEA TRUE CIRCUIT EREAKER - DON'T REPLACE-JUST RESET

Lifelime circult pritertion-film in wiandard eltson base fuse rireptarti: Trips In-lantls reset! Rulti in llne log hambles tenumorapy atarions leals and jine vurkes. Aralluble in 5. $101 \therefore-20$ in 30 umbs.
die marage required
le.
16. FUSEO PLUG. UKNS 3AG fuse in each Ide th protert line upplied less fuses.

(1)
PLUG FUSES. VI, spproved. suer thax.
PLUG FUSES. UI,
EL-t 19 amperes
EL-20 20 amperes
EL-21-in smperes

## JAG STANDARD PIGTALL FUSES

Thesisned for se in TV recrivers and other applifatinns
where adisolute eronomy in space is niresamy. Niltielfure Ineno serlex. For Musp, apecify fisy. Rited at $\ddagger$ Hov.


| Littol. <br> Frue = | Ames | Pb. | $c$ | Littel. <br> Fuse $=$ | Ames | $\begin{aligned} & \text { Per } \\ & \text { Plale } \end{aligned}$ | $\begin{gathered} \text { Per } \\ \mathrm{C} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{r} 318.062 \\ 318.125 \end{array}$ | $\begin{aligned} & 1 / 16 \\ & 1 / x \end{aligned}$ | . 75 | 12.25 | $\begin{aligned} & 31801.5 \\ & 318002 . \\ & 318003 . \end{aligned}$ | $\frac{3}{3}^{11 / 2}$ | . 45 | 7.35 |
| 318.250 | T/T | . 59 | 9.80 |  |  |  |  |
| 318.375 318.500 | $3 / 8$ $1 / 2$ |  |  | $\begin{aligned} & 318004 . \\ & 318005 . \\ & 318006 . \end{aligned}$ | 456 | . 48 | 7.84 |
| 318.750 | 3/9 |  |  |  |  |  |  |
| 318001. | 1 | .45 | 7.35 |  |  |  |  |

ITTELFUSE MOUNTINGS AND EXTRACTOR
POSTS
Mounts ant fume holders for erery applieation. Inrlutes

| 90 | Fif. Fer Fuses |  | Destriptien |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 341001 | , | 8.111, 3A13 | Pmel mount, *rew slot |  |  |
| 342001 | 1 | 8.18. 3.18 | Painl mount. finger knoh |  | 29 |
| 371001 | $A$ | *at | Itanel nmunt. krres |  | 29 |
| 372001 | 13 | *A3 | Pancl munt. |  | 29 |
| 357001 | C | 3.19: 3,1t | SIngle fuxe. luk ferminal |  | 12 |
| 387001 | r | sar: | Sinale fure. lug |  | 12 |
| 356004 | C | 9,103. 7.111 | NIncle fuse. sirew term. |  | 25 |
| 357002 | 19 | 3Af. 3Alt | IDoulhle fuse lug term. |  | 24 |
| 387002 | 11 | N.17 | Ihouble fuke. lug term. |  | 24 |
| 383002 | F | *Af | Jleter-liark nitg. |  | 21 |
| 383001 | F | N.ir | ISrloir panel mig. |  | 35 |
| 353001 | ${ }^{\circ}$ | 3AC. 3AR | Helow banel mic. |  | 35 |
| 55009** | - | ¢Pry 19, | . lutu Inlitre fuse relalmury |  | 29 |
| $5014^{\circ}$ | - ${ }^{\text {c }}$ | Spre: 114.11 |  |  | 9 |
| $55020^{\circ}$ | - 11 | F- (20.1) | dutu inline fuse refalner |  | . 29 |
| $t$ ommentent meflods for mounting fuses on ertuinment, radin. TV. Inatruments, etr. Fuake ensily replaced. 6 or |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Buss | For Fuses |  | Not Euss <br> ER $=$ |  | Net Es. |
| HPC I: | 13/129 | 1!" | 45 H1M | ${ }^{1 *}{ }^{* 1 \%}$ | . 30 |
| HCM | ${ }^{4} \mathbf{*}$ or | 13"x14" | 424405 | 4"x ${ }^{\text {c/ }}$ | .12 |
| HKP \% | \%"E1) |  |   <br> 0 408 | duat 1/4"玉\| 4 " | 24 |

SLOW BLOW LIMITED CURRENT FUSES

| LitfelFuse = | Ampr | Per | $\begin{aligned} & \text { Per } \\ & \mathrm{C} \end{aligned}$ | Littol- <br> Fuse = | Amps | $\begin{gathered} \text { Per } \\ \text { Phad } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Per } \\ \mathrm{C} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 333.010 | $1 / 100$$1 / 32$ | 1.19 | 19.60 | 333001 | 1 | Q4 | 13.72 |
| 333.032 |  |  |  | 3331.25 | $11 / 4$ | 78 | 12.74 |
| 333.062 | $\begin{array}{\|l\|} \hline 1 / 16 \\ 1 / 10 \\ 1=/ 100 \\ 2 / 10 \\ 1 / 4 \end{array}$ | 64 | 13.72 | 33301.6 | $1 \mathrm{fi} / 10$ |  |  |
| 333.100 |  |  |  | 3331.75 | $13 / 4$ |  |  |
| $\begin{aligned} & 333.150 \\ & 33.200 \\ & 333.250 \end{aligned}$ |  |  |  | 333002 | 2 |  |  |
|  |  |  |  | 33302.5 | $21 / 2$ |  |  |
|  |  |  |  | 33302.8 | $28 / 10$ | . 72 | 11.76 |
| 333.300 | $\begin{aligned} & 3 / 10 \\ & 4 / 10 \\ & 1 / 6 \\ & 6 / 110 \\ & 3 / 4 \\ & x / 10 \end{aligned}$ | . 4 | 13.72 | 33303.2 | 3.110 |  |  |
| 333.400 |  |  |  | 33303.5 | $31 / 2$ |  |  |
| 333.500 |  |  |  | 333004 | 4 |  |  |
| 333.600 |  |  |  | 333005 |  | . 72 | 11.76 |
| 333.750 |  |  |  | $3336.25-$ | G $1 / 4$ |  |  |
| 333.800 |  |  |  | 333007 |  |  |  |


| Dellynned throush amp rate Package. |  |  | OW <br> aft vib <br> re Pated Littelfu <br> ノ32" | BLOW <br> Blion test d at 250 ne nerien Ia. Shrg. | FUSES <br> requiret roll. Ab 413000 . |  | Unite <br> $1 / 10$ <br> per |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Littel. Fuse t | Amps | Per | Per | Littel- <br> Fuse t | Amps | $\begin{aligned} & \text { Per } \\ & \text { Prr. } \end{aligned}$ | Per |
| 413.100 | 1/10 |  |  | 41302.8 | 2-1/2 |  |  |
| 413.150 | 15/100 |  |  | 413003. |  |  |  |
| 413.200 | $2 / 10$ | 1.03 | 18.06 | 41303.2 | 3.2/10 | . 70 | 13.2 |
| 413.250 | $1 / 4$ |  |  | 413004. |  |  |  |
| 413.300 | 3 i 10 |  |  | 413005. | 5 |  |  |
| 413.400 | $4 / 10$ |  |  | 4138.25 | 6.1 |  |  |
| 413.500 | $1 / 2$ |  |  | 413008. |  |  |  |
| 413.600 | $6 / 10$ | 1.03 | 16.04 | 413010. | 18 | . 76 | 13.2 |
| 413.750 | 3/4 |  |  | 418015. | 15 |  |  |
| 413.800 | 8/t0 |  |  | 413020. | 20 |  |  |
| 413001 | 1 |  |  | 613025. | 25 |  |  |
| 4131.25 | t-1/4 |  |  | 413030. | 30 | . 79 | 13.2 |
| 41301.6 | 1.6/10 | 2.03 | 26.98 | 413035. | 35 |  |  |
| 413002. | 2 |  |  | 413040 | 40 |  |  |



# Dialco Pilot Light Assemblies 

NEON INDICATOR LIGMTS Howi ME-5iH Noon Giow Ligh Eright Fatontod Eultiolo Reolutor

Two Types Avalumen Beties 95408 enclosed neon indicator 1 LEht hats realator built ? lor use with the regu Iar NE-51 neon lamp on $105-125$ volt cif 18000 ohms for use bigh brightinest neon lemp on $105^{5} 55^{2}$ algh brightness neon lamp on 1050125 . Rurred deatm: remiator fully Insulated in molded bakelite. Plantic head gives $180^{\circ}$ light apread. Lens hoider and mbuatine bushing are white nickel piated. Cume With steel hex nut; and Interns! tooth lock calinlum plate. solder terminals. Siee
 panels up wi inted. Shpr. Wit. 3 or. Lesu and CaA Hinh rifhtiness vershon. Bdd oumbic to
 Dlale No. ssses-33)-Amber. Net. 87 Diale No. $95408-937$-Clear. Net.... 84 Teplatement prastic Cap for Netioa olalce No. s-Spectify color. Net Ez. isc

DIALCO NEON SERES 31914 blies for une with $\mathrm{NE}-45$ neon flow delabra cereonene for 105-125


Replaceable from front of panel. Convea lens in cholee of colorit hay frictlow-at leas bolder of polshed chronse iniah. Nicke plated mounting bushing. Irdite coaled. and mplit fockwasher. Binding screw ter minals. sise, $2 \mathrm{~K}^{\circ}$ long $116^{\circ} 0 . \mathrm{D} .:$ mounce in $1^{\circ}$ hole. U/L and CSA IIsted. Shige Wt. Diatce Mo. I1s14-111-Ren. Net
Diace No. 11914-113-Amber.
Net Earh. $11914-11 g$ Opal Net $\$ 1.03$
Dlate Na: 1.03
Dlatce Mo. $31914-117$ Cles. Net. 1.03
in lois of 10 -amit. Net kisen are bialco mo 3t-sperify color Nit Ea. $42 c$

## DIALCO MALP-INCM SERIES 1410

 For ube mith T-3k onet mine Ineandes-
ont culte. Replaceable from front of panel mbly wocket shell jewels in molded bakelite. Smooth face mounting Gumhtag are white nickel phated. Irldite coated. Eadnifum plated ateel hes plied. Solder termincla. size. $24^{\circ}$ lons. 10/0.D: mounts in "10 hole in panels up to $K^{-}$thick. U/L and CBA Hated. Whum. lampl. Diate me. 81410-111-Red. Net.. $97^{\circ}$ Diake No. 81418-112-Green. Net.. $87^{\circ}$ biale No. 11410-118-Whber Net $84^{\circ}$
mralacrmemt Jomrl cas for Net Each a7e olatee Mo. Si-speciry eolor Net bie. iec

MALF INCM OPEN SERIES 857


Open lytue absermbly for miniature base
oayonet lomps. $1 / 2$ fected jewel. Nequipes $11 / 18$ mounelng hole: $2^{2 \prime}$ lone; for panelt up to $1 /$ /sn thiek. Tinned solder NhyLK. W1. : oz. olalce wo. Es7e-43i-Red Ner. Net the Olatco No. STre-434-Blue .....Net N4e Olates Mo. s370-432-Green Net Net the

[^7]Page 162

NEW SUEMINIATURE SEIES
T-14 bulbs for 1.3embiles for use with for bulb replacement trom tront of panel. Milizary ar mie phenolic araurea permanent foulation from ground, all conneellons. ing and panel. Rugred braws gitucture onished in black nicket. loet wesher and nui



TWO-TER MINAL PLASTIC DOME TYPLS Serfen $101-5030$ Front Mount and Berles
$101-3830$ Beck Mount: From miountine unita inount in "1/6 hole; bect mounsing linits. In $15 / 22$ hole. Solder terminuly

|  | Cever | bet wit. |
| :---: | :---: | :---: |
| 101-313031 | Red | 101733-33 |
| 101-5030-352 | Green | 101-3810-952 |
| 102-5030-973 | Arober | 101.3830-973 |
| 101-5t30-975 | White | 202-3830-975 |

## Any Med Eb-

${ }^{3} 1^{24}$


Rugked. zeneral purpose with slass iens in metal holders; unacrew for enay lamp replacement. Froated lena except an otherwut: solder terminals. Nlise, 11, long and

 For grounded etreuts, sise opening Kin $^{\circ}$. O.D.; mountin in $10 / 6^{\circ}$ hole. Shpe. Wit. 19mps. Lenm lamp. Unex iypers 127 , :12x Dlate Mo. 4-1814Berew ternilnal. Net Eeeh........ \$168 Dlake No. 4.1930 - Sululer Turminal

 NHON LAMP CARTRIDOES For wie with Mo. 7538 Lamp Helder
 Witb meartiog $65 v$. AC aleeve, rapped fith plantic atoveplpe lent Requires $1 / 4$ watt bodlat reslator. slas.

 num aleeve and capped With mhort cylindrical
lem. Specify veltabes


$$
\text { MOV } 57 \text { AMPED LIOENDS }
$$

Cylindrical lenses ean be hot-atamped with

20 or more. Net Each. .i............ece
His WITH DERMANENT,
Bulttin, rugerd NE--2E neon lemp roguiren ballayt resintor, also avallable built
in. $1.1 \mathrm{ghtwright} \mathrm{aluminum} \mathrm{design:} \mathrm{plastic}$ in. I.1ghtweight oluminum design: plastic buliti-In lamp: two fully insulated ter-



OIL-TIGHT ASSEMBLIES
 Enelosed rurged
design gastreted with ollproof gat to oll, weter an dyet Rugged bindin serew
terminals. Ceps terminals. Caps unacre from
face of panel One-plece. solld brass movintlar rasm murled lens holder: chrome: ofld brass kaurled lens holder: chrotne finiah Glask lens gives omaidirectiond ( $180^{\circ}$ ) Itont sizeed is It long impect phenolte insuls1 clearance hole. Shive. Wit., 3 oz., aver age. Lass lamp

| For Screw Pase | Lena | Fer Curanot ma |
| :---: | :---: | :---: |
| 103-1101-1311 | Red | 103-3512-1313 |
| 163-1101-1312 | Green | 103-3502-1332 |
| 103-3101-2133 | Nmber | 101-3502-1333 |
| 103-3101-1313 | Blue | 103-3502-1334 |
| 103-3101-1315 | White | 101-3502-1335 |
| 103-3101-1336 | Yellow | 201-3502-1336 |
| 103-3101-1317 | Clear | 103-3502-1337 |

DOME TVPL LENS (FLOSTED ACK) | $163-3101-1211$ | Red | $101-3512-1211$ |
| :--- | :--- | :--- | :--- |
| $103-1101-1212$ | Green | $101-3502-1212$ |

 103-3101-1214 Blue 103-1101-1217 Yeflow 103 3soz-1216

## Trenslucent untroure

FOR NEON GLOW LAMPS
For ume with NE-45 candelabre acrew baso Ianigh. Hesistor bult into immp base. Stze. shpg. Wt. 3 oz. Lems lamp.

| Dialee Number | Lens Coler |
| :---: | :---: |
| 153-3114-1231 | Red |
| 103-3114-1233 | Amber |
| 101-3116-1236 | Yellow |
| 103-3114-1237 | Clear |
| 103-3114-1217 | Clear* |
| Frosted bact: Any model-Net Eiech | \$220 |
| in lote of $10-\mathrm{cmat}$. | Net wach 1.90 |

MODEL 1316-L ADAFTE觬 STI
Gavketed redurer for adapting aby $1^{\circ}$ Dimico ptlot liaht sumpmbly to 1 "W' hole ${ }_{2}$ Dial No. 1116-L—Net Eech..... $73^{c}$


In tots of 10
FOR NE-S NEON BLOW LAMP

| Fiuted Lons | Coler | Ptoln Lens |
| :---: | :---: | :---: |
| 125-400-1191 | Red | 125-408-1131 |
| 185-405-1193 | Amber | 125-405-1113 |
| 125-405-1195 | Yellow | 125-403-1138 |
| 125-400-1197 | Cleat | 225-404-1137 |
|  | Clt-ar* | 125-406-1117 |

Fronted berk,
FOR LOW-VOLTAGET-31/G-MNHATU童E EATONTT EASE LAM

| Frutel Lens | Celor | Frester meck |
| :---: | :---: | :---: |
| 125-116.1191 | Red | 123-61-5115 |
| 125-410-1192 | Green | 125-410-1112 |
| 125-410-1193 | Amber | 125-110-1113 |
| 125-410-1194 | Blue | 125-410-1114 |
| 125-110-1195 | White | 125-41e-1135* |
| 125-410-1196 | Yellow | 125-410-1116 |
| 125-110-1197 | Clear | 125-410-1117 |

RECEPTACLES FOR NEON AND ARGON LAMPS


EVERYTHING IN ELECTRONICS FROM ONE DEPENOABLE SOURCE

OPEN SOCKET ASSEMBLIES
DIALCO ONE-INCH SEDIES 75 OETACHAZLE LAMP SOCKET
 Candelatora lisage;
IIS volt plloi Itght aspembly Fith faceted
jewel in hirniy polished chrome plated brais
andard bulbs Requrres hole of I-Ineh diameter fir mounting, liasilly atjusted to panel thickness. Less bult.

 In bots of 10 Meplacement dewel Cap for 15
Olatco No. $13-43-$ Sperify eolor Not Ya. 38 l
10 or More, Eaeh 3le


## +19 <br> DIALCO SERIES 910 ONE INCH OPEN TYPE

Popular werise for fiectronic rquipment. lamp replaced from front. In mtz. Mole. color mif bas min scaEw CAND AED 910 OE 431 30m-431 910c-431 Amben siom-433 siom-433 Bioc.43 Diatco 10 serles


DIALCO SERES 10 HALF-INCM REMOVABLE JEWLL
 For operatlon with low volt, mintature bayonet and minliature
wrrew haw. Incandes rent lamm, Burniahed
nicter nniah. Reguires nicket Mnish. Reguirps
i/ in. mounting hote. Elither mounting hole. ed leny will be gupplied. Ronder terminais. Ertective lens diampter $\mathrm{S}^{\circ}$. All bracketh are insulated from the Ifve terminals. Unit cecured by mparate bushing from which cans may be removed easily for pocess to

## MINIATURE BATONET CASE

 Dlates Mo. 81 ee-431-Red.Npt Earh 32c



DIALCO SERIES 510.610-710 ANGLE BRACKET ASSEMBLY Economiral mpace saver. For escent minlature lampo. Win soduer verminuls. Wlite nickel Anlsh. Mountins hole To diameter. Errective lifas ciameter he Anple bracket by the thremed shants of the lenm holder and lanipe are accessible onty trom bock of panel. Convex lens. Less bulb.
SERIES ${ }^{2}$ Sio MINIATURE SCREW Dlatce No. s10-121-Red. $21^{\circ}$ Otsice No. s1e 122 -Grmen. Net.... $21^{c}$



## SEIES 710 MINIATURE BAYONTT

 oraice Me. 710-121-Red.Net Niarh
 lote of $10-$ anst. .........Net Each 1 er

## BRACKET MOUNTED SOCKETS

 B


Cadmlum plated brackets with thaned brasi lura. Bayonct tyine furniwhed with tact. Hikheat racte Inaulated washern. Availsthe for miniacure serew or bayonet typer and for candelabra base. Average


| Diate No. | Yypo | $\begin{aligned} & \text { Mot } \\ & \text { Ench } \end{aligned}$ | For | For |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 701 \\ & 777 \\ & 701 \\ & 705 \end{aligned}$ | $\begin{aligned} & 1 \\ & \hline \mathbf{B} \\ & \mathrm{C} \\ & \mathrm{D} \end{aligned}$ | $\begin{aligned} & 8 c \\ & 8 c \\ & 0 c \\ & 8 c \\ & 8 c \end{aligned}$ |  | $\begin{array}{r}8.88 \\ 8.88 \\ \hline 8.8 \\ \hline\end{array}$ |



## LENSES IN THREADED HOLDERS FOR PANEL MOUNTING

For une with eparately mounted lamp sorken All-purpose smooth jewels in mol. tabed nietel-plated brang holders for up to 1222- panels. K $^{\circ}$; $4^{-}$and $16^{\circ}$ diarnetern



## LaFAYETTE SpECIAL

39


For operation on 110 volts AC. Regulrea
ion $x$ rewistor in berles. When used with 220 v , usp 254 in reples. When ubed with sharting voltage, AO v. Servicing life, SO00) to 10,000 opersatink hours. Avallable in 3 orderink. Shog wt 202 ms-47e Shog Net $\begin{array}{r}.38 \\ .35\end{array}$
In lote of 10
.35
DIALCO ONE-INCH SERIES
314001
 thon-at leas holder of poltshed chrome: White nlekel ylated mounting bushing Irldite canted. cadmlum plated steel hex
nut and split loctswanher. solder tep-
 in $1^{\circ}$ bole. U/L and CBA Listed. Shpe. In wi. os, Leas lampin-Red. Net. 1 .
 $\begin{array}{ll}\text { Net Esch. } 11401-437 \text {-Ciear. Net } & 1.83\end{array}$ In lots of 10
Replecrmate Jewel Cap for 314008 Dialce Wo, 31 -48-Specify colat Not En. 38 c
1 INCHENCLOSED TVPE SERES 312901 WITM LEADS
U.L.approved brasn andembly with on wire leada for cardelatira lampm. Chrome. Tric.
lion-ite cap. 10 mut hole. Lext lamp. shys. Wh. S ox. Ohaico No. 112901.111 -Red Net Eseh 1.13 Dlalco No. 312901.112 -Green. Net 1.13
 Lots of 10 Replictent for Nel Ea . Replacement semel Cmps for 312,
Diatico No. 1s.18-Spectiy coler.


DRAKE NEON INDICATOR LIONTS


## FLUSHLITE



POSTLITE
Trpe ios Postlite. Molded neon panel


 Trpe bultitin meon lamp and realstor. For $1, \mathrm{y}^{\mathrm{m}}$ mig. eentern. UL approved.


## E. F. JONNSON PANEL LHGHT



For front-of-panel Illumination. Poltabed nickel-plated hood is easity removable for lamp replacrment; can be
rotated to any position. Fits rotated to any position. Fits Ti? or C3 $\begin{aligned} & \text { hulbe. Shps. wh. } 2 \text { oo }\end{aligned}$
 Net Fisch
Ne. 147-330-Minialure screw bave.
Net Esch (

## DASH LAMP

 ASSEMELYFor dashboard. pandi. tte. mounting. Simple contact miniature bayonet soekmit Mounte in the hole. With 12" lead, Mis and wather. Easy inatsllation. Leaw lamp 51 or 35 rult
51 or 53
Me. 314 No. Net ser
general purpose MINIATURE LAMPS


For radio and television pilot lights pancls, flash Ithes. appliances, coin ma-
chines, ete. ABBREVATIONS: C.P. chines, candle power; Base Typen- (A) means candle power; Bake Types-(A)
Single contact Flanged, (B) Screw, iC) Bayonet. (D) Spectal, (E) Siagle Con-
tart Midget Flunged. Shpt. Wt.. I lamp 2 ox.: hox of 10,5 oz. When ordering 100 or more latius of one type, reduc $0 \%$ from the " 10 For" price culumn.

| TYPE | voars | AMES | $\begin{aligned} & \text { Pase } \\ & \text { TYPE } \end{aligned}$ | $\begin{aligned} & \text { MET } \\ & \text { CACM } \end{aligned}$ | $10$ $\mathrm{Of}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PR2 | 2.4 | 0.50 | ¢ | . 20 | 1.33 |
| PR3 | 3.6 | 0.50 | A | . 20 | 1.33 |
| PR4 | 2.3 | 0.27 | $\wedge$ | . 20 | 1.33 |
| PRe | 2.5 | 0.30 | A | . 20 | 1.33 |
| PR12 | K.9.5: | 0.50 | A | . 20 | 1.33 |
| PR13 | 4.75 | 0.80 | A | . 20 | 1.33 |
| 13 | 3.7 | 0.30 | 8 | . 17 | 1.14 |
| 24 | 2.5 | 0.30 | B | . 17 | 1.14 |
| 27 | 4.9 | 0.30 | 8 | .17 | 1.14 |
| 40 | 6.3 | 0.1 \% | B | . 17 | 1.14 |
| 41 | 2.5 | 0.80 | 8 | . 15 | 1.00 |
| 42 | 3.2 | 0.3s | B | . 20 | 1.33 |
| 43 | 2.5 | 0.50 | C | . 15 | 1.00 |
| 44 | 6.3 | 0.25 | C | .15 | 2.00 |
| 45 | 3.2 | 0.35 | C | . 15 | 1.00 |
| 46 | 6.3 | 0.25 | E | . 15 | 1.00 |
| 47 | 6.3 | 0.15 | C | . 15 | 1.00 |
| 48 | 2.0 | 0.06 | B | . 15 | 1.00 |
| 49 | 2.0 | 0.06 | c | . 15 | 1.00 |
| 50 | 6. 3 | 1 cp | B | . 15 | 1.00 |
| 51 | 6.3 | 1 cp | c | .15 | 1.00 |
| 33 | 14.4 | 0.12 | C | . 15 | 1.00 |
| 55 | 6.3 | 2 cp | C | . 15 | 1.00 |
| 112 | 1.2 | 0.22 | 0 | . 17 | 1.14 |
| 123 | 1.25 | 0.30 | B | . 17 | 1.14 |
| 222 | 2.2 | 0.25 | B | . 17 | 1.14 |
| 224 | 2.15 | 0.22 | D | . 17 | 1.14 |
| 233 | 2.2 | 0.27 | B | . 17 | 1.14 |
| 291 | 2.9 | 0.17 | C | . 49 | 3.33 |
| 292 | 2.0 | 0.17 | B | . 49 | 3.33 |
| 313 | 28.0 | 0.17 | C | . 35 | 2.33 |
| 327 | 28.0 | 0.01 | E | . 90 | 6.00 |
| 328 | 6.0 | 0.20 | E | . 70 | 4.67 |
| 502 | \%. 1 | 0.15 | 8 | . 17 | 1.14 |
| 1459 | 20.0 | 0.25 | C | . 17 | 1.14 |
| 1815 | 12-1 6 | 0.20 | c | . 20 | 1.33 |
| 1891 | 14.0 | 0.23 | c | 15 | 1.00 |
| 1892 | 14.0 | 0.12 | C | . 20 | 1.33 |

## AC-DC PILOT LGHTS

Rated at 105.125 v. 1300 hours average Double contact Bayonet Candelabra. Shpy ur.. 3 or. exeh. Std. phet has 12 per
pkg. exeept hat 10 . okg. exeept hat 10.

| Tyoue | snape | Watt | Trese | Net sing Iy | $\begin{aligned} & \text { caen } \\ & \ln \\ & \text { ln } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 356 | Clobe | 3 | 4 | . 36 | .31* |
| ass | Globe | 6 | A | . 22 | . 20 |
| cscoe | Globe | 8 | $\pm$ | . 30 | .27* |
| 7c7-ciear | Cone | 7 | a | . 22 | . 20 |
| 7cy-white | Cune | 7 | a | . 22 | . 20 |
| 10c7.ec | Cone | 10 | - | . 28 | . 25 |
| m8313 | Tube | 4 | A | 39 | 35 |

## NEON GLOW LAMPS <br> For $105-125$ Y AC operation exeept for 210.250 AC. Serew ispen hace resulre ex. iernal restator. AC atarilne voliages shown: GU staring volitage 10 F hisher. Base Tybest A-Wire Terminala; B-Single Con- tect Boy. Min.; C-Cand. Serew; DDouble Contact Coy. Cand. Serew; Dind. E-Edlon: F-Skirted Cand, Serew: G-skirted Douv tie Contart Bay. Cand.: K-Sinale Contact Bay. Cand. Shpg. wi., 2 oz


 ELECTRONICS

## (A) AMPHENOL "MIP'" SOCKETS

 Molded high dielectric black bokelife, with molded-in plote for $11 / 2^{\prime \prime}$ mounting centers. Firmly held-won't rottle or work loose. $11 / 32^{\prime \prime}$ mounting hole except " $11 /{ }^{*}$ mitg. hole. $11 \% / 3 z^{\prime \prime}$ mpg. hole. Arg. shpg. who, 502.| TYPE | PRONGS | 1-99 | $\left\{\begin{array}{c} 100-249 \\ \text { eexh } \end{array}\right\}$ | $\left\lvert\, \begin{gathered} 250-u p \\ \text { ech } \end{gathered}\right.$ |
| :---: | :---: | :---: | :---: | :---: |
| 77-MIP-4 | 4 | . 09 | . 078 | . 07 |
| 77-MIP-S | 5 | . 10 | . 086 | . 077 |
| 77-M1P-6 | 6 | .11 | . 099 | . 087 |
| 77-M1P.7L $\dagger$ | 7 large | .12 | . 106 | . 094 |
| 77-M1P.75 | 7 small | .12 | . 107 | . 096 |
| 77-M1P-8 | Octol | . 10 | . 085 | . 077 |
| 88-8. | Octol | .11 | . 095 | . 085 |
| 88-8X* | tocktal | . 14 | . 118 | . 106 |
| 77-M1P-9 | 9 | . 12 | . 10 | . 09 |
| 77-M1P11 | 11 | . 13 | .11 | . 099 |

(B) AMPHENOI "RS" SOCKETS

Removoble steel odopter plate with relainer ring ollows replacement of most socket types. For mounting cirs. from $11 / 2^{\prime \prime}$ to $1 \%{ }^{\prime \prime}$. Molded high dielectric bokelite. Mounts in $11 /{ }^{\prime \prime}$ hole. Avg. shpg. wt., 5 oz.

## 78-R54

78-R5S
78-R56
$78-10571$
$78-2575$
$78-$ RS75
$78-R 58$
$78-R 581$
$78-$ MS 81
$78-\mathrm{RS}$
$78-$ RS9
$78-R 511$
4
5
6
7 large
7 smoll
Octol
locktal
9
11
AMPHENOL "IS

| .11 | .098 | .088 |
| :--- | :--- | :--- |
| .12 | .105 | .095 |
| .13 | .113 | .101 |
| .18 | .155 | .14 |
| .14 | .118 | .106 |
| .13 | .11 | .099 |
| .17 | .148 | .133 |
| .13 | .115 | .104 |
| .16 | .14 | .126 |

## (C) AMPHENOL "S" SOCKETS

for new work. Single hole mounting. $111 / 4^{" 1}$ dio excep 7857 L which requires $121 / 64^{\prime \prime}$. Firmly held by tempered steel retoiner ring. 9 and 11 prong sockets for Amphenol connectors. $78-57$ Lits $s$ moll and large bose tubes. Molded high dielectric bokelite. 1 mounts in standard $11 /$ socket hale. Hos miniature sockel in center. Avg.

## $78-54$

## 7-55

$78-56$
$78-57 \mathrm{~L}$
$78-571$
$78-575$
$78-575$
$78-38$
$78-38$
$78-581$
78.581
78.59
$78-59$
$78-511$
$78-511$
$78-A 9 P 1$
4
5
6
7 lorge
7 small
Octal
locktal
9
11
7 for miniotures
9 for miniatures

| .08 | .07 | .063 |
| :--- | :--- | :--- |
| .09 | .078 | .07 |
| .10 | .085 | .077 |
| .14 | .123 | .11 |
| .10 | .09 | .081 |
| .10 | .085 | .077 |
| .14 | .118 | .106 |
| .11 | .098 | .088 |
| .13 | .11 | .099 |
| .22 | .185 | .167 |
| .27 | .225 | .203 |


(E)

AMPHENOL MINIATURE 7 - PIN SOCKETS Amphonol sockets for TV, FM, outo rodios, etc. 147 -series mounts on $3 / 8^{\text {" }}$ chassis hole with $1 / 8^{\prime \prime}$ mig. ctrs. $1 /{ }^{\prime \prime}$ mounts on $5 / 8$ chassis hole with $1 / 8 \mathrm{mfg}$ cirs. $1 / 0$ ctrs., . $095^{\prime \prime}$ " pivet holes.
-Steatite. \$8tock Bokeltie. \{Mico-filled baketite. Avo. 5 oz
BOTTOM MOUNTING TYPE - FIG. (A)

| TYPE | No. CONTACT5 | $\begin{aligned} & 1-99 \\ & \text { each } \end{aligned}$ | $(100-249 \mid$ | $\left.\right\|_{\text {250-up }} ^{\text {each }}$ |
| :---: | :---: | :---: | :---: | :---: |
| 147-500 | 7 | . 15 | . 125 | .113 |
| 147.501\% | 7 | . 24 | . 185 | . 205 |
| 147.505 | 7 | . 15 | . 125 | . 113 |
| 59.409 | 9 | . 20 | . 17 | . 153 |
| 59-410 | 9 | . 20 | 17 | . 153 |

TOP MOUNTING TYPE -FIG. (B)

## Socket with lube shield base to fit shields listed below

| 147-905 | 7 | .21 | . 18 | . 162 |
| :---: | :---: | :---: | :---: | :---: |
| 147-925 | 7 | . 26 | . 225 | . 203 |
| 147-9131 | 7 | . 22 | . 188 | . 169 |
| 59-407 | 9 | . 27 | . 24 | . 216 |
| 59.406 | 9 | . 24 | . 21 | . 189 |
| TUBE SHIELDS - FIG. (C) |  |  |  |  |
| For 7-Contact Boses. |  |  |  |  |
| 5-401 | 1\%" | . 08 | . 074 | . 066 |
| 5-402 | $13 / 4$ | . 09 | . 078 | . 069 |
| For 9-Contort Boses. |  |  |  |  |
| 5-405 | $11 /{ }^{\prime \prime}$ | . 09 | . 075 | . 068 |
| 5-408 | 113/10" | . 10 | . 09 | . 081 |
| 5-409 | 23" | .11 | .099 | . 089 |
| ETHYLON-A HIGH "Q" SOCKETS |  |  |  |  |

7- ond 9 -pin miniotures of low-loss, resilient Ethylon. A. Mox. omblent temperoture $125^{\circ} \mathrm{C}$. "requires $21 / 32^{\prime \prime}$ hole: $115 / 10^{\circ}$ hole. Avg. shpg. Wt.. 5 az.

|  | BOTTOM MOUNTING - |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | LESS | TUBE | SHIELD | BASE | (D) |  |
| $\begin{aligned} & 59-357 \\ & 59-359 \end{aligned}$ |  | 7 |  | . 15 | ${ }^{.125}$ | .113 .153 |
|  | TOP MOUNTING - |  |  |  |  |  |
|  | WITH | TUBE | SHIELD | BASE | (E) |  |
| 59.367 59.369 |  | 7 |  | .31 <br> 36 | .18 .31 | $.162^{162}$ |

An outstonding life of 7. and 9.pin minioture fube sockets and shields mode in occordonce with JAN $\$ .28$ A and JAN $5-28$ A-1 specs. Miniolure socket contacts ore silver-ploted phosphor-bronze; shields ore nickel-ploted bross with phosphor-bronze springs; shield boses ore codmium ploted brass. All are highest qually components. Avg. shpg, wi., az.

| $\begin{aligned} & \text { STOCX } \\ & \text { NO. } \end{aligned}$ | $5-28 A^{\text {JAN }}$ | NO. $5-28 A-1$ | DESCRIPTION | $\begin{array}{r} \text { 1-9 } \\ \text { eoch } \end{array}$ | $\begin{aligned} & 10-49 \\ & \text { eoch } \end{aligned}$ | $\begin{aligned} & 50-99 \\ & \text { eoch } \end{aligned}$ | $\begin{aligned} & 100-10 p \\ & \text { oach } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MS-495 | TSE71101 | TS102P01 | Socket, mico filled, 7-pin shield bose | . 20 | . 18 | .17 | . 14 |
| M5-496 | TSE97101 | TS103P01 | Socket, mico filled, 9 -pin shield base | . 22 | . 20 | . 18 | . 15 |
| M5-497 | TSB87101 | TS101P01 | Socket, mica filled, soddle octal | . 26 | . 24 | . 22 | .19 |
| MS-498 | TSFOT101 | TS102U01 | Tube shield, 7 -pin, 1\%" ${ }^{\text {" }}$ | . 12 | .11 | . 10 | . 08 |
| MS-499 | TSFOT102 | TS102U02 | Tubo shield, 7 -pin, $11 / 4^{\prime \prime}$ | .12 | .11 | .10 | . 08 |
| MS-500 | TSFOT103 | TS102U03 | Tube sheld, 7-pin, $21 / 4{ }^{\prime \prime}$ | . 14 | .13 | . 12 | . 10 |
| M5-501 | TSFOT104 | TSio3u01 | Tube shield, 9 -pin, $11 / 3$ | . 14 | . 13 | . 12 | . 10 |
| MS-502 | TSFOT105 | TS103U02 | Tube shield, 9.pin, $115 / 10^{\prime \prime}$ | .14 | .13 | .12 | . 10 |
| MS-503 | TSFOT106 | TS103U03 | Tube shield, 9.pin, $23 /{ }^{\prime \prime}$ | . 18 | . 16 | . 15 | . 13 |


| AMPHENOL |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| NIATURE SHIELDED CONNECTORS |  |  |  |  |
| miniature shielded coblettype and chassis cannectorsi molded bokelite in cod. ploted brass shells; for cables up to $1 / 4$ " diom. Mole and femole coble types (FiGs. A and B) $11 / 16^{\text {" }}$ diom: lost tetter in type no. shows length: "L" is $11_{10}$ ". " S " is $11_{10}$ ". Lost numeral in type no. is no. of contocts. PCG-series chassis conectors (FIG. C) ore femole only, toke $7 / \mathrm{m}^{\prime \prime}$ hole, $11 / \mathrm{m}^{\prime \prime}$ centers. Shpg. wt., 2 az |  |  |  |  |
|  |  |  |  |  |
| TYPE NO. | FIG. | $\begin{aligned} & 1-49 \\ & \text { - och } \end{aligned}$ | $\begin{gathered} 50.149 \\ \text { och } \end{gathered}$ | $\begin{gathered} 150 \text {-up } \\ \text { egch } \end{gathered}$ |
| 91-MPM3L | A | . 24 | .21 | . 19 |
| 91-MPM35 | A | . 23 | . 20 | . 18 |
| 91 -MPM4L | A | . 24 | .21 | . 19 |
| 91-MPM4S | A | . 23 | . 20 | . 18 |
| 91 -MPMSL | A | . 26 | 23 | . 20 |
| 91-MPM61 | A | . 27 | . 24 | .21 |
| 91-MPF3L | B | . 27 | . 24 | . 21 |
| 91-MPP35 | B | . 27 | . 24 | .21 |
| 91-MPF4L | B | . 29 | . 24 | . 23 |
| 91-MPF45 | 8 | . 27 | . 24 | .21 |
| 78-PCG3 | C | . 16 | . 135 | . 122 |
| $78 . P C E 4$ | C | .16 | . 135 | . 122 |
| 78-PCG5 | C | . 18 | .155 | . 14 |
| 78-PCG6 | C | . 19 | . 16 | . 144 |


| MINIATU | 5 | 5 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Usoble wit minioture retainer rin Need 5/" | M. 91 -M <br> rs. Suppli <br> llent for <br> vg. shpg | d $78-\mathrm{P}$ <br> th pus <br> er con <br> 4 oz. | PCG <br> h.an nections. |  |
| SOCKET TYPE NO. | CONT. | $\begin{aligned} & 1.99 \\ & \text { each } \end{aligned}$ | $\begin{gathered} 100-24 \\ \text { eoch } \end{gathered}$ | $\begin{gathered} 250 \text {-up } \\ \text { och } \end{gathered}$ |
| 78-535 | 3 | . 07 | .063 | . 056 |
| 78-545 | 4 | . 07 | . 063 | . 056 |
| 78-535 | 5 | . 10 | . 09 | . 81 |
| 78.565 | 6 | .11 | . 095 | . 086 |
| 78.71 | 7 | . 14 | .12 | . 108 |
| PIUG <br> TYPE NO. | CONT. | $\begin{aligned} & 1.99 \\ & 00 c h \end{aligned}$ | $\begin{gathered} 100-249 \\ 00 c h \end{gathered}$ | $\begin{gathered} 250-u p \\ \text { ach } \end{gathered}$ |
| 71.35 | 3 | . 065 | . 055 | . 05 |
| 71.45 | 4 | . 08 | . 07 | . 063 |
| 71-55 | 5 | . 09 | .075 | .068 |
| 71.65 | 6 | . 10 | . 085 | . 077 |

CABLE CONNECTORS
Shielded cop and rubber grammet.end
opening. Consist of "s" type fube
sockets and "Cp" plugs with hoods.
FEMALE Avg.shpg. Wf. $602.1 .99100-249250 . u p$
TYPE NO. CONT.
Coch eoch oorh

| 78-PF4 | 4 | .17 | . 145 | 13 |
| :---: | :---: | :---: | :---: | :---: |
| 78-PF5 | 5 | . 18 | . 153 | . 137 |
| 78-PF6 | 6 | . 19 | . 16 | . 144 |
| 78-PE75 | 75 | . 20 | . 165 | .149 |
| $78 . \mathrm{PF} 8$ | 8 | . 19 | . 16 | .144 |
| 78-PF9 | 9 | .21 | . 173 | .155 |
| $78-\mathrm{PF} 11$ | 11 | . 22 | . 185 | .167 |
| MALE |  | 1.99 | 100.249 | $250.0 p$ |
| TYPE NO. | CONT. | -0.h | -och | -ach |
| 86-PM4 | 4 | .21 | .175 | . 158 |
| 86.PM5 | 5 | .21 | .175 | . 158 |
| 86-PM6 | 6 | . 22 | . 185 | . 167 |
| 80-PM75 | 75 | .23 | . 19 | .171 |
| 86-PM8 | 8 | . 22 | .185 | . 162 |
| 86-PM9 | 9 | . 22 | . 185 | .167 |
| 86.PM11 | 11 | . 23 | . 195 | . 176 |

AMPHENOL TYPE 79-CCA. Cable-clomp used with obove connestors to relieve stroin on soldered connections. Type 79.CC4


## TRANSISTOR SOCKET

Latest translstor socket talter thansistors with
3 compors in line. 3 contocts in triangle. comports in line, 3 contocts in triongle.
contocts in diomond shape fretoodel. Made of mice filled phenolk. Contach ore beryllium copper, gold flashed aver silver Ms-3es Sheg. wi.,5, oz. Not oo. 25

TRANSISTOR SOCKETS

(8) IT (C)

- Mresaver
a OR YOUN TRANSISTORSI Tronsistan may be domoged by the heat of colderting:
The utilizetion of whese ipeciolly developed tronistor
 copper sontects. Fior belinited Sizeviph sisted beryllium Sreek Avg. shpg. wh., 4 oz

| spenk M. | Avge | shpg. Cent. | 318 * | Wel |
| :---: | :---: | :---: | :---: | :---: |
| M3.27s | A | 3 | 15/32***1/32*n7/32* | . 10 |
| 43-233 | A | 5 | 13/32**11/32"-7/32" | . 18 |
| 4 ms 232 | c | 5 | $1 / 4^{*}=3 / 10^{* *} 318^{*}$ | . 22 |
| ms-14901 | 1 | 5 | $1 / 4^{\prime \prime} \times 3 / 10^{\circ \prime}=3 / 8^{\prime \prime}$ | . 22 |

## 

Used in all wbminiature radios, heoring oidt and elecfiled low-loss balelite. Silver-plated berviliem coppel


| No. | フra | cont. | sice | Nor |
| :---: | :---: | :---: | :---: | :---: |
| M5-253 | A | ${ }_{5}$ | 15,32" $511 / 32^{\prime \prime}$, $7 / 32^{\prime \prime}$ | 10 |
| MS. 254 | A | - | 13 32" 8 7/32" $29 / 32^{\prime \prime}$ | . 19 |
| M45-253 | A | 7 | 31/64" $27 / 32^{\prime \prime}$ : $5 / 32^{\prime \prime}$ | . 22 |
| M5-250 | 8 | 8 | 13/32** $7 / 16^{+}$ | . 38 |

# Amphenol.CONNECTORS \& TERMNAL STRIPS.Cinch-Jones <br> CINCH-JONES PLUGS SOCKETS 

1100 retti, rme 1 " 300 ", Core. Tho volly ind diser. Cable proer mave rlamod

 Precision heovr-duty self-potarizing connectors originally
develaped for militory applicotions. Provides long ribbon spring wiping contocts with no possibility of mis-moting, bent springs or contocts. Excellent for use in "blind" areas, on rack-panel installotions, otc. Silver-ploted and gold-finished confocts provide extremely low resistance and will accommadote up to $\# 16$ stranded conductors. Rated at $5 \mathrm{emps}, 700-800$ valts O.C., the 57 .Series MieraRibben connectors ore smoller in size than the 26-Series and provide UP to 50 contocts. $26-4300$ Serles have and Avo. shpg. Wi 8 or

26- SERIES. ARRIE POLARIZATION,

 rack and panel mountings or, with shells, as cable con. odded strength. Holes ore provided for wiring on the male confocts; interiockine barriers to prevent accidental shortshetl. Arg. shog. wi., 10 oz.
Contertis
Mir's

MINIATURE HEXAGON CONNECTORS

(B)
( 1,5$)$
For infercennection of miniofure electronic equipment. Have superior Amphenol diollyl phtholote dielectric; reted of 2000 valts $\mathrm{cms} 60 \mathrm{cps}, 71 / 2$ omps. For $\# 20$ or \# 22 wire connections Silver ploted, gold finished contocts. Hex nut type (fig. A) has threoded body for direct panel mounting; locking-elip troe (Fig. B) hos some body but providet lacking connection. Hood and coble-clamp type (fig. C) otso motes with the other types. Overoll diam her nut troe $3 / /^{\prime \prime}$. Avg. shpo. Wf. 4 og.



## MEISSNER AND NATIONAL COILS

## MEISSNER COILS

|  | FIg. A-"PLASTIC" I.F. TRANSFORMERS <br> Trimmer bose and coil form are moulded in one piece. Trimmers "floated" owoy from base with on oir gap between the botlom plate and the plastic bale. Wide ronge frequency odjustoble either side of presel trequency, double-luned. Metal shield can ond titz wire. Unollected by lemperoture or humidity. Sire: $11 / 4$ quare by $21 / \mathrm{m}^{\prime \prime}$ high. Shog. Wl., 4 oz. <br> INPUT <br> Trpe <br> Set at <br> OUTPUT <br> Type |
| :---: | :---: |
|  |  |
|  |  |
| Fig. B-STANDARD ANTENNA AND R.F.COILS |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

F. A CHASHI J.F. TRANSFORMERS Trimmers "floated" owor from base with on oir gap onge frequency odjustable plastic bale. Wide Unoll; double-iuned. Metal shield can ond litz wire quare by $21 / 2{ }^{*}$, Sheg. wl.. NPUT

## POPULAR R.F. CHOKES FOR EVERY PURPOSE



Long-istinding facorites with the amateur, the ensinetr and the serviceman erk, recelvera, teat equipment, No. National excephana service in tranamitchokes ares 3 und 4 equipment, ote. National R-33 chokes are 2 -nection, K-80 mitters whth plate supnly up to 3,000 volts modulated or 4,000 voltn unmodulated. "U"" followfin National type number Indicates rernovable tandof insulator at one end. Meissner chokes are wound on specially treated dowels.

NATIONAL RF CHOKES

| Type | Mht | Mo | Ohms | Net | Type | Mht | Mo | Ohms | Net |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| R-100 | 2.5 | 125 | 50 | . 39 | [-3005T | 2.5 | 300 | 10 | 45 |
| Q-100 | 5 | 125 | 50 | . 39 | R-33 | $10^{\circ}$ | 75 | 1.0 | . 39 |
| R-100 | 10 | 125 | 50 | . 39 | R. 33 | $50^{\circ}$ | 75 | 4.0 | . 39 |
| R-300 | 1 | 300 | 10 | -43 | - $\mathrm{L}^{\text {- }}$ 3 | 100 | 75 | 5.5 | . 19 |
| -100U | 2.5 | 125 | 50 | . 47 | R-33 | 1 . | 850 | . 06 | . 39 |
| R.100U | 5 | 125 | 50 | . 47 | R. 33 | 750 | 75 | 17 | . 39 |
| R-100U | 10 | 750 | 50 | . 47 | - 50 | 2.5 | 50 | 41.5 | . 39 |
| t-300U | 1 | 300 | 10 | . 47 | 1. 50 | . 3 | 100 | 16.2 | . 39 |
| 6.100s | 2.5 | 125 | 50 | . 47 | R-50 | 1 | 100 | 22 | . 39 |
| R-1005 | 5 | 125 | 50 | . 47 | T.50-1 | 10 | 100 | 30 | . 60 |
| R.1005 | 10 | 125 | 50 | . 47 | -60 | $2 *$ | 500 |  | . 39 |
| R. 3005 | 1 | 300 | 10 | . 47 | - 154 | 1 | 800 | 6 | 1.97 |
| R.1005T | 2.5 | 125 | 50 | . 45 | R-154U | 1 | 600 | 6 | 1.58 |
| R-100st | 10 | 125 | 50 | .45 | [-175A | 225 | 800 | 6 | 3.49 |
| - microhe | ies | +Mill | henrles |  |  |  |  |  |  |

MEISSNER RF CHOKES


Fig. D-OSCILLATOR COILS FOR 190.550 METER BC BAND
Used with 365 mett cR BC BAND

Used with 365 mmid . cond. IF, RF, and Antenno coil Shielded type. $11 / /^{\prime \prime} \times 11 / 2^{\prime \prime}$. All without Dodders Melssner Type $\left|\begin{array}{c}\text { Freq. } \\ \text { KC }\end{array}\right|$ RequiredPodder Price \begin{tabular}{l|c|c|c|c}
Melssner \& Type \& KC \& Requifed Podder \& Price <br>
\hline 14.4242 \& Shielded \& 175 \& 900 \&

 

\hline 14.4242 \& Shielded \& 175 \& 900 \& mmfd \& 1.06 <br>
14.4243 \& Shielded \& 456 \& 350 \& mmfd \& 1.41 <br>
14.3732 \& Unshielded \& 175 \& 900 \& mmfd \& 1.15

 

$14-3732$ \& Unielded \& 456 \& 350 \& mmfd \& 1.41 <br>
$14-4034$ \& Unshielded \& 175 \& 900 \& mmfd \& 1.15 <br>
\& 456 \& 350 \& mmfd. \& 1.38
\end{tabular}

| $14-1033$ | $U n s h i e l d e d$ | 456 | 350 | mmfd. |
| :--- | :--- | :--- | :--- | :--- |
| 1.18 |  |  |  |  |

Fig. E- $\%$ " PERMEABILITY TUNED I.F. COILS Tuned top ond bollom. powdered iron cores. Silvered mico condensers, molded plastic boses, otched oluminum - Spode balt mfo. With leads. Shpg th 4 at plate Meissner
Type function
Eoch

16.6770 455 KC Outpul, with diade filler
$16.6752 \quad 262 \mathrm{KC}$ Input
$16-6754-262 \mathrm{KC}$ Input for outo receivers.
16-3487 107 MC FM Inser ................
16-3487 10.7 MC FM Input and Output
1.53
1.76
1.76
1.76
1.91

FIg. F-MINIATURE ADJUSTABLE BROADCAST OSCILLATOR COIL
For Bottery and 3-Way Portables
Small phyical size. $1^{\text {m }} \times 6^{\prime \prime}$ ond wide conge of inductonce odiustment. Ideal as replacement unit in most baftery and 3-way portables. Inductonce ronge pllows Use with gang condenser copocities of 108 to 180 mmfd . Alows occurote odiustment of inductance for proper calibration and trocking. Shpg. Wi., 4 oz.
Meissner Type 14-1074.

Fig. G-MINIATURE BROADCAST ANTENNA The amoll phyilcal AND R.F. COILS
The imoll phyilcal size, $11 / 2^{"}$ by $1 / 2^{\prime \prime}$ and the feofure o hoving adfustroble inductonse mokes thase coils ideally suited io replocement in comport circuirs or where mounting of original coil is difficull to dublizate. De signed to cover the broadcost band with gong conden Me issner fype $14-1071$ tite of 280 to 120 mmfd . Meissner Type 14-1071-Antenno w1., 8 oz. 1.18
Melssner Type 14-1072—RF ..Sheg. wt. 8 oz. 1.18
Fig. H-MINIATURE ADJUSTABLE BROAD-
With CAST OSCILLATOR COIL
With 100 mmid. Caposity Interwinding. For use with Ceceivens having Ass KC int 127 . Ond 1407 lubes in receivers having ass KC Intermediate Frequency ond mmfd . in unpodded condenser copocities of 108 to 180 poadded circuits. Adiustovis, and 365 to 420 mmid . in odiustment for proper toertino are dermins occurote small size of 1 " by $2 /{ }^{\prime \prime}$ permis in ase in the $\quad$. ooct circuits. 141073 Sho
Meissner Type 14-1073 Shpg. wf. 8 oz
Fig. I-PHONO OSCILIATOR COIL FOR Knob odustment for RECORO PLAYERS
 BFO COIL
supplier oeor note for CW moception. Ronge 290.650 C. Peoknd of 456 KC. $11 / 2,30 .{ }^{2} 31 / 2^{2}$ high Meissner Type 17-6753. Shpg. W1, 8 oz........ 3.23
Fig. J-"MINIATURE" ADJUSTABLE VIDEO PEAKING COILS

Pormit "exoct" "acremoriver oalustment of trequency response in video omplifier stoger by use of powdered ron cores. M1e, by leodi. $1^{\prime \prime} \equiv 1 / 20$ Shpg. wh., 4 or | Type |
| :--- |
| 19.1920 |

19.1921
19.1922
19.1923
$\qquad$
$65-115 \mathrm{uh}$
$115=195 \mathrm{uh}$
$195=325 \mathrm{uh}$
$325=500 \mathrm{uh}$

## MEISSNER IF TRANSFORMERS

## Permeabllity luned, lug mounted minioture If tronsformer

 All have 455 KC intermediofe frequency, except * 262 KC All units $1 / 2^{\prime \prime}$ square and $5 / 8^{\prime \prime}$ high, except $+3 / 4^{\prime \prime}$ highShpg. wi. 40 oz .

IMPEDANCE

| TYPE | PRI | SEC | APPLICATION | NET |
| :--- | :---: | :---: | :---: | :---: |
| $16.9001 *+$ | 20000 | 600 | AJS | 3.53 |
| $16.9002 \dagger$ | 25000 | 600 | AJS | 2.06 |
| 16.9003 | 10000 | 500 | AJ | 3.23 |

MEISSNER FERRITE ANTENNA COILS


## MEISSNER OSCILLATOR COILS

Popular broodcost frequency oscillotor coils for
replacement, hobby and experimentol purposes. Shpg. wh., 4 oz. TUNING INDUCT.

| TYPE | FIG. | CAP. UUFI | ${ }^{4} \mathrm{H}$ | SIZE | NET |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 14-9004 | 8 | 365 | 140 | 1/716 dio. $\times 7 / 8^{\prime \prime} \mathrm{h}$ | 1.62 |
| $14-9006$ | C | 78 | 248 | $1 / 2^{\prime \prime} \times 1 / 2^{\prime \prime} \times 5 / 8^{\prime \prime} \mathrm{h}$ | 3.23 |
| 14.9010 | 8 | 82 | 262 | 9/16" dio. $\times 1.1 / 8^{\prime \prime} \mathrm{h}$ | 1.47 |
| 14.9012 | A | 59 | 346 | $1 / 2^{\prime \prime}$ dio. $x 3 / 4^{\prime \prime} h^{\prime}$ | 1.76 |
| 14.9014 | 8 | 98 | 207 | $11 / 18^{\prime \prime}$ dio. $\times 7 / 8^{\prime \prime}$ | 1.47 |

## Coils-Coil Forms and Trimmers




## MILLER TRANSISTOR LOOP ANTENNA



A Ared inductonce 100 p with o lorge platup hold to Inaure odequate signol to the frat stope. Inductor is topped to maich an input impedonce of 600 ohms. Frequency range 540.1650 tc when used with o vari oble copocifor hoving a maximum copacify of 365 momf. Size: $11 / /^{\prime \prime}=912^{\prime \prime}$. Shpg. w1., 3 az. No. 2000 Laop Anfenno

## MILLER TRANSISTOR

## OSCILLATOR COIL

or uso wimh o momistor lo suppir ascillator energy to the mixer stage. Used with a variable capocifor heving o moximum copocity of 365 mmid . Intermediote frequency 455 kc . Broodeast band $540-1650$ ke. Podder .0004 mmfd . Mounting clip fits info o $5 / 16^{\prime \prime}$ diometer hale. Sire: $1 / \%^{\prime \prime}$ 1/:" high. Shpg. wi.. 3 ar No. 2020

Fig. F- . S MC INTERCARRIER SOUND I.F COMPONENTS
For the popular Intercortior sound TV recelvers. Iron coro tuning and 1 Hl-Q no drift capocitars are ured throughout. Aluminum shlelds. Top ond boftom iunIng. Mounting by $6 / 32$ spode bolts. 1469 and 1470 1469 is useded. Diseriminator is Foster-Seeley trpe. 1469 is used to remove 4.5 MC signal from output of sound defector or plote of video amp. 1470 may be inserted in any sart of circult whors a 1.5 MC signol Type


FIg. G-HORIZONTAL OSC. AND STNC. CONTROL COILS
Permeability iuned-tor wse in horitantal osc, and A.f.C. circulis. Encased th oluminum. No. 6194 has two coupled windings. One, lopped, for use in herlronial osc. circuity the second. center fopped, for phose in a horlzontat blocting are and as sync coniral No $\Delta 183$ is the same as 8182 eacept it has oditional 6183 is the same as 8182 encept if hat addition No. $b 1$ M Mr. No. b182-Morizonial Oic. \& Discriminator No. b183. Morizontol Osc. \& Sync. Stabilizer

Fig. H-"40 MC" TV PICTURE I.F.'
Currently wied in RCA madels hoving picture i.f. cor rier 45.75 MC , sound I.F. corrier of 41.25 and inter. corrier I.F. at 4.5 MC . All ore in aluminum shields ox. cept 6218 which is unshiolded. For use in subsequent
slopes. Ronge 41.75 to 45.75 MC. No. 8216,6217
 and 6218 hove frap windings. $\%$ " $1 / /^{\prime \prime}$ I $21 / 4$

| Type | ltem | Not |
| :---: | :---: | :---: |
| 6215 | Converter I.F. | 1.62 |
| 6216 | lis pia lif. Grid | 1.94 |
| 6217 | lit Pis 1.F. Ploto | 1.94 |
| 6218 | 2nd Pix I.F. Grid | 1.82 |
| 6219 | 3rd. 4th and Sih Pir I.F. | 88 |

CAMBRIDGE THERMIONIC CORPORATION

## SLUG-TUNED COILS



For TV traps, braodband RF omplifiers, gonero
HF circults, tc. Coil bodies of $15 \mathrm{M}, 153$ and L54 are MF poper base phenolic; $\mathbf{1 5 5}$ and 156 ore ceromic. $\$ 53$ hos larger slug and breother
bondposs. is4 for lorger inductance and $O$. Slugs lungble fram either end. lacking feo.



## 

| Type | Descriplion | Net Each |
| :---: | :---: | :---: |
| LS3 | Call Form | 48 |
| LS3 | 1 Ate Cosil | . 74 |
| 453 | 5 Me Cobll | . 70 |
| L53 | in are coll | . 67 |
| L53 | in Mr Coil | . 66 |
| L53 | gin Me Cuil | . 66 |
| LSM | Cuil Form | . 48 |
| LSM | 1 Meroll | .74 |
| LSM | S Me Coil | . 70 |
| LSM | 10 Me Coll | . 67 |
| LSM | 10 Mr Coll | 66 |
| L5m | din Me rivil | 66 |
| 154 | Cosil firm | . 64 |
| 155 156 | Coll form | . 57 |
| 156 | Coil Horm | . 52 |

MICA TRIMMERS AND PADDERS
Base of low-lass ceromic. $1.7 / 32^{\prime \prime} \times 3 / 4^{\prime \prime} \times 3 / 6^{\prime \prime}$ in size $1.7 / 32^{\prime \prime} \mathrm{mfg}$. cirs. Capacity ronges derived from


FIg. I-MORIZONTAL LINEARITY AND WIDTH CONTROLS width odiustment. Wound on a botelite form diometer. Mig. clip fits $5 / 10^{\text {" h hole. } 6300 ' s-\text { phenolic torm }}$


| 6195 | $185=1.000$ | .8 |
| :--- | :--- | :--- |
| 6196 | $.054=0.245$ | .7 |
| $6196-4$ | $.054=20$ | .50 |
| 6197 | $.550-2.300$ Tapped | .8 |
| 6198 | $170-0.410$ | .8 |

6197
619
6199

| $6199-A$ | $1.300=4.100$ Tor |
| :--- | :--- |
| $6199-8$ | $.300=1.700$ |
| 6313 | $.50=5.0$ |


| 6313 | .50 | -5.0 |  |
| :--- | :--- | :--- | :--- |
| 6314 | 2.0 | $=18$ |  |
| 6315 | 4.0 |  |  |
| 6316 | 4.0 | 30 | With AGE |
| 6317 | 3.2 | -9.0 | With AGE |


| 6317 | 3.2 | -9.0 | With |
| :--- | :---: | :--- | :---: |
| 6318 | .20 | $=3.0$ |  |
| 6318 | 15 | $=80$ |  |
| 6320 | .20 | $=3.0$ | Top |


| 6320 |  |
| :--- | :--- |
| 6327 |  |
| 6322 |  |
| 6323 |  |
| 6324 |  |

$\begin{array}{r}6322 \\ 6323 \\ 6324 \\ \hline F i g\end{array}$

Fig. J- 20 MC RANGE TV PICTURE I.F.'S to 6248 ore single wound 6249 to 8254 ore bifilar to ${ }^{2}$ ound. Mig. slip to fit $5 / 16^{\prime \prime \prime}$ chassis hale. $2 / 4^{-0} \mathbf{O}$ O. 2 $21 / 2^{2}$ long. Av. shpo. wi.. 5 oz.

| Type | I.F. Mc | Irap Ms | Net |
| :--- | :--- | :---: | :---: |
| 6245 | 25.5 Ist I.F. | 27.25 | 1.67 |
| 6246 | 22.0 | 2nd I.F. | 21.2 |
| 6247 | 21.25 |  | 1.67 |
| 6248 | 24.5 |  | 1.67 |
| 6249 | 21.25 |  | 1.03 |
| 6250 | 25.29 |  | 1.03 |
| 6251 | 21.25 | shielded |  |
| 6252 | 25.29 | Shillded |  |
| 6253 | 21.30 | 20.23 | 1.47 |
| 6254 | 22.32 | 1.91 |  |

Fig. K-CONVERTER AND PICTURE CHANNEL A.F. TRANSFORMERS

Permeability tuned, Used to couple plote of mizer to coupling. Havo sluge and for video I.F, interstoge shoping and sound tuned liops lor response curve 6185 has top on trap odiacent channel reiection. Irpo channol at $21.25 \mathrm{mc} .1 / \mathrm{E}=1 / \mathrm{m} \times 2 \mathrm{~K}^{\mathrm{m}}$ high. Shpg. wt. 5 oz.

| Trpe | I.F. Mc | Trap Mc | Net |
| :--- | :---: | :---: | :---: | :---: |
| 6115 | 21.8 | 21.25 | 1.82 |
| 6186 | 25.3 | 27.25 | 1.82 |
| 6187 | 22.3 | 19.75 | 1.47 |

CAMBRIDGE THERMIONIC PRINTED CIRCUIT COIL FORMS

$\frac{\sqrt{1}}{\sqrt{4}}$An internally threaded phenalic tube with callars and salder lugs, with powdered iran core that is adjustable from sither end of punching two to four holes in boord. Wind punching twa to four holes in baord. Wind. SPCI have $5 / 16^{\prime \prime}$ core. Types SPC? Types 3 " core Avo

|  | TURE |  | MUMGER |  |
| :--- | :--- | :--- | :---: | :---: |
| TVPE NO. | DIAM, | 0.0 | OFLUGS | NET |
| SPCI-A-2L | $.219^{\prime \prime}$ | $.356^{\prime \prime}$ | 2 | .21 |
| SPCT-A-3L | $.219^{\prime \prime}$ | $.356^{\prime \prime}$ | 3 | .21 |
| SPCI-A-4L | $.219^{\prime \prime}$ | $.356^{\prime \prime}$ | 4 | .21 |
| SPC2-B-2L | $.285^{\prime \prime}$ | $.426^{\prime \prime}$ | 2 | .21 |
| SPC2-B-3L | $.285^{\prime \prime}$ | $.426^{\prime \prime}$ | 3 | .21 |
| SPC2-B-4L | $.285^{\prime \prime}$ | $.426^{\prime \prime}$ | 4 | .21 |

## AMPHENOL COIL FORMS


High quality coll forms for the amofeur. experimenter and builder. Outstanding performance in receivers and law power transmitters in the RF and UHF range. Alt plug in type excepl iype 24 which mounts by $6-32$ screw mig. hole in bose Shpe. wt., 1 az

## Type

Description

| Pe | Description | Size | EACH | EACH | EACH |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 24-4P | 4.Prong SId. | $21 / 4 \times 11{ }^{4}$ | . 24 | 20 | . 18 |
| 24-5P | S-Prang Std. | $21 / 4 \times 11 / 4$ | . 24 | . 20 | . 18 |
| 24-6P | 6.Prong Std. | $21 / 4 \times 11 /{ }^{\prime \prime}$ | . 24 | . 20 | . 18 |
| 24-5M | 5-Prang Min. | 1.9/16 = $11 /{ }^{\prime \prime}$ | . 24 | . 20 | . 18 |
| 24-6H | 6-Prong Min. | 1.9/16 = $11 / 4^{\prime \prime}$ | . 24 | . 20 | . 18 |
| 24 Form | anly No Prangs | 1.9/16 $\times 1 / 4$ | . 09 | .075 | . 07 |

## MINIATURE EARPHONES AND ACCESSORIES

## OP NEW! SUPER POWER DYNAMIC EARPHONE FOR TRANSISTOR CIRCUITS <br> This super-power dynomic earphone fis not to be confused with run-of-the mill earphones. Emira officient canstruction

THREE
TIMES THE OUTPUT OF OTHER EARPHONES
and a powerful mognet provides up to three times the volume of other dynomic earphones. Lafoyelte brings you this ideal solution to the problem of low oufput inherent in fronsistor clircuits. You"ll bemozed af the difference in volum when you use this dynamic earphone, os well os at its auality of reproduction. We hove tested this item on all kinds of transistorized circults, and this remarkably efficient eorphone functioned so well that in mony coses the progrom was distinctly heard with the earphone over 2 leet oway trom the earl 11 is of course, not limited in use to low powered devices - il will give superior performonce wherever o high impodonce dynamic eorphane is pequired. AC impedance 7000 ohms, DC resistance 1500 ohms. Snop on eorpiece reodily removed for cleaning. Complete with 3 ff . detochoble plugtin cord. Shpg. wf., 4 oz MS-260


## ${ }_{A R} \rightarrow 6$ <br> EXTENSION CABLE WITH MINIATURE PHONE PLUG \& ADAPTER

Perfect for extending earphone from tronsistar ond port. able radios. Extension up to 10 leet. Complete with miniature phone plug and odapter, Cable comes in at-
tractlive light pink color. Shpo. wt.. 2 oz.
M5. 590


AS LOW AS 79

## ECONOMY ALL-PURPOSE DYNAMIC EARPHONES.

- for transistor and subminiature RECEIVERS
-FOR SILENT RADIO AND TV LISTENING.
A sensitive oll-purpote eorphone desioned with boih your listening pleosure ond pocketbook in mind. Ex. tentive range ond oxcellent tone combine, to provido excellont roproduction. lightweight, equipped with o practically invisible sor support, thot slifes comfortobly over olther sor, from which the ©orphone can'i slip oul or foll. Ideol for wio with TV and radio sett, omplifors, minioture and tronsistor receivers, etc. Altroctive unit with shiny chrome finish. Complete with o 3 tl cord. A super volue of this price. Shpe. wh., soz. ms-581.
6 ohm impedonce, with phone tip plues. M5. 365

Not .91
2000 obm impedance, with phone lip olugs. MS-387......................................................................... Is 2000 ohm Impedonse with subminioture phone plug. M5-368. ..................................................Net l.05


NEW!
Dynamic
Stereophonic Headphones

- True Binoural lieproduction.
- Frequency Response 40-16,000 cps.
- Matched Magnetic and Crystal Transducers.
- Exceptianally Lightweight.
- 5 Types - Monaural and Einoural.

Toke your chole offive stethoscope type headsets. Binoural or Monourall Migh impedance or low Impedoncel Mognetic or crystoll Only Lafayette offers a complefe selection. Binaural units are equipped with two seporote and individual transducers and cord sets for true dual channal repraduction. Long the most widely occepted means of storeophonic listening. Both monaural and binaural units Sound is corried through erystal cleor plastic fubes tipped Sound is corried through erystol cleor plastic fubes lipped with removable, plostic earpieces, Ingentous hinge device permits odiustment to ony desired apocing. Less than 2 oss.
tetal weight for the utmost in listening comfort. Binaural total weight for the utmost in listening comfort, Binaurol
iefs moy be used for monoural listoning. 5 hpg wt. ost sets moy be used for monoural listening. Shpg. wt., o ozs. SINAURAL. HEADP HONES
M5-431. Binaural-Magnetie-6 ohms impedance
M5-432. Binaural-Magnetic- 5000 ohms Impedence. 2.45 MS-433. Binourol.Cryital.100,000 ohms impedance. 1.95 MONAURAL-MAGNETIC HEADPHONES
mhe4x Monoural-Mognetic- 6 ohms impedance
H $\mathrm{H}-430$ Monaural-Mognetic- 5000 ohms impedance.
1.75

## CRYSTAL HEADSET

This new lighiwelight, under-the-chin erystol heodsel provides the vimost in listening comfort wherever a meadet in used. This unit is charocferized by o high sensifivity and is ideal for oll applicatlons where a very high impedonce unit is required. This heodsel offers fine reproduction and comfartable Ilstening in a Nghtweight do. ign. Cemplete with 3 ff . cord and standard phone Hps. Shpe. wr., 5 oz. M5.369


[^8]
## EARPHONES • HEADSETS • ACCESSORIES

## REMOTE CONTROL FOR SILENT TV VIEWING <br> - SIMPLE TO ATTACH TO ANY TV SET OR RADIO <br> - SEE AND HEAR-NOISELESSLY-CONVENIENTLY - LOOK AT THESE FEATURES!

FOR LATE LISTENERS: One or two
people cen both see and hear the pro people cen both see and hear the pro.
gitm with the loudspeaker eut oH. lops for enioying the latelate show. without disturbing the fest of the household or the neighbors. FOR HARD-OF-HERRING: They cAn voe and hear without turning the set the noise. They can listen either with the noise. They can listen either with of the lamily want to hear, with the spealier on.
3. FOR NOISY PROGRAMS: DOn't let the kids" "Wild Western"s" bother you
Let them view and listen with the speater cut off.
of the T.V. sef. Does not hove to be disconnected from us

## BRUSH <br> CRYSTAL <br> HEADPHONES <br> Generai Purpose <br> Headphones <br> Model BA-200 (Tlo A) B N

 45,000 ohms, Response $100-8,000$ sensifive. With Impedance, heodband. Shpg, wt., 2 lbi.ME-10
BA-2001.
Model BA-200a. Same as a
use. Impedonce, 90,000 ohms
ME-11
13.82
 ohms, Responsel00-8,000 eps. With. $5^{\prime}$ cord. Shpg.wi., 1 lb . ohms, Responsel00-8,000cps. With. 5 cord. Shpg.wi., 1 lb.
ME-12 Hi-Fi Double Heodphones
Model BA-205. For lab and other critical uses. Response 100 to 10,000 cps with low distartion. Impedance, 75,000 ohms. Shpg. wt., 2 lbs.
ME-13
bs.
Model BA-2058. As obove bup wired for binourol 19.40 Impedance 150,000 ohms.

## ME-14

Model BA-206. For ultimote hi-flilistening plo....................20.58
ponse 60.8000 cps . Impedance, $50,000 \mathrm{ahms}$. Shpg.wl 2 tb ME- 15
Model BA-2068. As obove but wired for bingural $\mathbf{4}$. Impedonce, 100,000 ohms. Shpg. wired 2 lbs. ME-16

REMOTE CONTROL: Comes complete with 20 ft . of cable so it can be operated comfortably from a distance. Has its own ather 1 or 2 ear phones can be connected.
6. OYNANIC EAR PHONE: Sot is supplied with one of AR. GONNE nclusive Hi.Fi dynamic ministure earphone. Mighly sensitive and eHficient, Thone is complete with 3 H , cord and tips. resdy to insert in control bor.
 phone and 20 H . cable. Completely wired with instructions Shpg. wf. 3 lbs.
MODEL MS. 125
NET 6.50

## EXTRA EARPHONE

MS-591 Shpe. Wh., 8 oz.
$10^{\prime}$ axtension cord for above.
MS-590 Shpg. wt., 4 az. .....................................Net. 39

## BRITISH INDUSTRIES

 headphonesType K H3-Fi Dynamic Headphones MONAURAL - BINAURAL

## Actually 2 minioture hi-fi speakers, each with response

of 50 to over 10,000 cps. Uses cane diaphragms. Con. nects ta any sound system: amplifier, tope recarder, rodio, etc. Camplete with rubber ear cushions and flexible $6^{\circ}$ one-plece connecting cord and adjustoble headbands. Avalloble with Monoural/Binaural wiring. Shpg.
A $1 / 2 \mathrm{lbs}$.
ME-20 Trpe K-52 ohms ..................................Net 28.95
ME-21 Trpe K. 600 ahms Net 34.50
ME-22
Trpe K 15,000 ahms Net 36.50


## PHONE AND SPEAKER

 CORDS $41 / 2$ Feet long Ave. shpg. wt. 11 oz.Siurdily made, with cotion braid insulation. $41 / 2$ feet long. MS-35 Dauble tyoe. I and spade tip, ather straight . 45 MS-36 Dauble trpe. Pin tips both ends

M-3 Single rype. Pin tips both ends

## HEADPHONE CUSHIONS FOR ALL PHONES



Made of soft rubber for comfartable listening and far earphone protection. Fip all types of headphones. Shpg. wt. 1 lb . headphones. Shag;
MSt. 34 Ib......Poir.$~$
3

## TELEX HEADPHONES AND ACCESSORIES



TELEX MONOSET (Fig. A)
Under-theechin lightweight headset far Individual listening. Reduces heod fatigue. Removable white plastic eor plugs far eay cleaning. Magnetic type. Weighs 1.2 oz Complete with 5 ft . cord and standord phone plug.

ME-50 18183-128 ohms
ME-S1 18184-2000 ohms
18185-128 ohm with volume cont...........................
ME-53 18186-2000 ohm with volume control
Net 12.49

## TELEX TWINSET (Fig. 日)

Banishes headachy ear pressure. Band rests on head ond receivers set gently of temples; fubular sound arms pipe signol to ears. Only 1.6 oz . C.A.A. approved for pllois Complete with 5 ft . cord and standard phane plug. Shpo wt. 10 az.
ME-54 3791-64 ohms
Net 12.35
ME-54 3791-64 ohms ............................Net 12.35
ME-55 3775-1000 ohm for pilat uso (CAATC3R2.1)
Not 12.35
TELEX CORD SETS (Fig. C)
All are 5 f . cerds withaut volume controls. All fit Mono. sef, iwinset, and mognetic pillow speaker except "fits dynomic plllow speoker. Shpg. wt. 9 oz.

## Plug Type

ME-56 3280-Standard Phone Plug
ME-57 9200-90 minioture phone plug
ME.58 9225-Strolight min. phone plug
ME.58 8255-Straight min. phond


## TELEX HI-FI DYNASET (Fig.D)

Sensitive Hi.Fi under-the.chin dynamic heodsef. 50.8000 cycle response to 25 MW . Midg of $3 / /^{\text {" }} 6$-ohm speaker built right into the plug. Light groy finish. Shpg. Wt., 6 oz.

TELEX DYNAMIC PHLOW SPEAKER (FIg. E) Now dynamic miniature pillow speaker gives ultimate in tonal quality without distortion. For individual and institutionol use. Stainless sfeel, moisture proof housing. Sizer $33 / 4^{\prime \prime}$ dia.. $11 / 0^{\prime \prime}$ mox. thickness. With 5 ft . cord and ME-62 8110-3.0 ohm ..........list 10.20..........Net 0.00 ME-63 $\quad 8130-10,000 \mathrm{ahm}$......list $12.10 \ldots .$. Net 7.11
telex magnetic pillow speaker (fig. F)
Oniy $21 / 4^{\prime \prime}$ diameter and only $5 /{ }^{\prime \prime}$ thickl Ideal for $\mathbf{0 0 m}$ fortable radia or television listening through a plltow In bed of in o choir without disturbing athers. Maroon waterproof plastic. Complete with 5 ft , cord and standard phone plug. Shpg. Wh.. 8 oz.
ME-64 4500-125 ohms ....... List 10.70......Net 6.61 ME-65 4530-2000 ohms ........ Ist 10.70 .........Net 6.61


Quality double headsel with adiustable headband for comfortable listening. 4000 ohms dic. resistance. Hos durable permanent mognels, removable ear piece and $3 \mathrm{l} / \mathrm{ft}$. of extension cord, covered with woven cotton braid and terminated with standard head phone tips. Extremely light weight and efficient. Shpg. wf., 12 or. | Exiremely light weight and efficient. Shpg. Wf.. 12 oz. |
| :--- |
| F $=374 \ldots \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$ |


"CANNON-BALL" DOUBLE HEADSET
Low-priced. lightweight, with powerful Alnica $V$ mognets and double calls. Adiustable steel headband. $41 / 2 \mathrm{ft}$. cord. ME-30 AM.15.2-2000 ahms D.C. .........................26 ME-31 AM-15-3-3000 ohmi D.C. 2.20 ME-32 AM-15-5-5000 ohms D.C. .............................. $\mathbf{3 . 0 9}$

## "CANNON-BALL" SINGLE HEADSET

Single, efficient phone with spring steel headband. $41 / 2$
ft. cord. Shpg. Wh. I lb.
ME-33 AM-15.1-1000 ohms D.C. ......................... 1.18
ME-34 AM.15-1500-1500 ohms DC ....................... 1.32
BRANDES "ADMIRAL" HEADPHONES
"Matched-tane" headset. Large diaphragms. Double colls. chrome steel magnets. Adiustable steel headbond. $41 / \mathrm{ff}$. cord. Shpg. wt. 2 lbs.
ME-35 BA-2-2000 ohms .....................................................

ME.37 8A.5-5000 ohms ............................................................
BRANDES "SUPERIOR" MEADPHONES
"Maiched-tone heodset of same general construction as the "Admirel" but with terminals on the outside
ME-38 \&S-2-2000 ohms


HEARING AID FOR RADIO Heodphone hearing device increoses eniovment for persons having difficulty hearing radia progroms properly. Excellent for private listening. Connects
to radio in a few minutes. With switch to radio in a few minutes. With switch for listening to phones only, speoker
only, or to both. Phones match loudonly, or to both. Phones match loud-
speaker call. speaker call. 2 Shpg. WP. 2 1bs.... 4.70 ME-4O SP-1-Same but with single phone Shog. wi. 1 lb.... 3.38
ME-41 K-4-3-woy switch only 1.85 TELEX MINIATURE PHONE
 ity of procision workmanshlp. Plug is $11 / 3 z^{\prime \prime}$ long by $1 / 4 "$ diome
PJ. 39 TELEX NO. 9231-PLUG. Shpg. wf. 4 az. ......... 35 PJ-40 TELEX NO. 9245-JACK (Closed Circuli). 4 oz. 24 PJ-HI TELEX NO. 12102 -JACK (Open CIrcuit). 4 oz. 24


## TELEX DYNAMIC

MINI-MIKE

- High Sensitivity
- tight Weight
- $1 \times 1 \times 3 /{ }^{\prime \prime}$ Only

Truly an outstonding addition to the fomous Telex line of minioture electranic equipment and parts. This tiny unit, housed in case only $1 \times 1 \times 3 / 4 "$. cantalns a dynomie speaker and mike. Idaal in any opplication requiring a miniopure eleciro-acoustic transducer, such as dictoting mochines, transceivers eic. Impedance, 10 ahm . Sensi-
tivity: 52 do below 1 dyne/saem tivity: 52 db below $1 \mathrm{v} / \mathrm{dyne} / \mathrm{sa.em}$ (mike with trans. former); 124 db with 10 mw input (speaker). Weighs only $13 / 4$ oz. Taugh thermosetting plostic and steel cose. ME.66 Model 9155-less transfarmer. 4 oz. ........Net 5.53 ME-67 Model 8918-Matching Tronsformer. Input to grid, 0 to 150,000 ohms. Size $11 / 16 \times 5 / 16 \times 1 / 3$ grid.
4 oz.

（B）

Model SP－3 Stereophones（Fig．A）
The Kass 5P－3 Stereaphones，ore a speciolly canstructed headset that provide a wide freavency range of 30.15000 cycles by means of unusual $31 / 2$ dynamis reproducers in－ arparated into each enrohane．They ore entremely cam fartable ta wear．light and rugged．Ideal for Sterea，they can alsa be used for manoural saund．Since they have on mpedance of 4 ahms，they con be connected directly to ping weight 2 lbs． Ging we

## MODELT． 7 JUNCTION BOX（Fig．B）

This Junction BOX is made to plug directly into any portable phanograph ar rape recorder having 2 plug－in side wing speakers such as Maparala．Webcor，Emerson．ell．Equipped with 2 phone type output Jocks and standard phane plugs． Ghipping Weight 1 ib．

MODEL T－ 8
Seme as above except equipped with RCA phono Jocks Shipping Weight it G－602

## MUELLER UNIVERSAL CLIPS AND INSULATORS



## TEST CLIPS WITH MESH TEETH（8）

All steel，cadmium ploted except is solid copper．is
branze．has insulation piercing needle in low．Avg

|  | az |  |  | LOTS 10 | LOTS 100 | 300 UP |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| мо． | $A M P$ ． | S12E | EACH | EACH | EACH | EACH |
| 45 | 5 | 17\％＂ | ． 07 | ． 05 | ． 042 | ． 04 |
| 45 c＊ | 10 | 1\％＂ | ． 13 | ． 09 | ． 078 | ． 072 |
| 488 | 10 | 2＂ | ． 10 | ． 07 | ． 06 | ． 056 |
| 48 C | 10 | 2＊ | ． 14 | ． 098 | ． 084 | ． 08 |
| 50Ct | 10 | 21\％＂ | ． 26 | ． 18 | ． 16 | ． 15 |

A For reterence only，insulotor not supplied．
BATTERY CLIPS STEEL AND COPPER（B）
Wi Are salid copper，oll athers ore lead plated．Avg．Shpg

| NO． | AMP． | SI2E | EACH | LOTS 10 <br> EACH | $\begin{gathered} \text { LOTS } 100 \\ \text { EACH } \end{gathered}$ | $\begin{aligned} & \text { SOO UP } \\ & \text { EACH } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24 A | 25 | 2\％＂ | .22 | ． 15 | .13 | .12 |
| 214 | 50 | 4＂ | ． 40 | ． 28 | 24 | .23 |
| 11 A | 100 | $6^{\prime \prime}$ | ． 98 | ． 69 | ． 59 | ． 56 |
| 24C＊ | 50 | 2\％＂ | ． 33 | ． 24 | ． 20 | ． 19 |
| 21c＊ | 100 | $41 / 2$ | ． 91 | ． 64 | ． 55 | ． 52 |
| 11 C | 200 | 6＂ | 1.67 | 1.17 | 1.00 | ． 95 |

3 SIDED MESM TEETH CLIPS（C）

| NO． | AMP． | S12E | EACH | $\left\|\begin{array}{c} \text { LOTS } 10 \\ \text { EACH } \end{array}\right\|$ | $\begin{gathered} \text { LOTS } 100 \\ \text { EACH } \end{gathered}$ | $\begin{array}{r} \text { O\|SOO UP } \\ E A C H \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 27 | 20 | 2．7／16＂ | .13 | ． 09 | ． 08 | ． 07 |
| 27 ¢＊ | 40 | 2－7／16＂ | ． 20 | ． 14 | ． 12 | 112 |
| PHOSPMOR－BRONZE WEE－PEE．WEE CIIPS（1） |  |  |  |  |  |  |
| Nan．ferrous R．F．test clip．Length $1.11 / 16^{\prime \prime}$ ．Jaw 5／32＂．Uses 93 insulator．Arg．Shpg．Wt． 4 ozs． |  |  |  |  |  |  |
| NO． |  |  |  | LOTS 100 EACH |  | $\begin{aligned} & \text { SOO UP } \\ & \text { EACH } \end{aligned}$ |
| 88 |  |  | 5 | 13 |  | ． 124 |

MODEL A－122D AMPLIFIER（Fig．C）
Amplor especially designed for use with the Stereo hones．Con be cannected directly ta a Sterea ceramic cartridge or ta the autputs of the preamps af a stereo recorder of funter．Equipped with 2 Phano Jocks，a gain cantral for each channel，and 2 Phane Jacks．Aftractively made and compact，this unit lends itself to a wide variety
of uses．Three tubes olus rectifier．Iransfarmer pawered． Shipping Weight 4 lb

## G． 603

Contains MODEL T－1 manitaring 600 ， $10,000 \mathrm{ohm}$ autpuls to output Jacks far Siereophanes and perminal baord is pravided for connectlon to variaus ypes of equipment．Shipping weighs $11 / 2$ tbs

MODELT－5 JUNCTION BOX（Fig．D）
unction Boy far cannecting stercaohones to eaisting stere Volumaural system．Impedonce $4-16$ ahms．Conioins 2 the headset independently．Mas 2 autpul at each side at or manoural use．Equipped with speaher on－aff switch far personalized listening．Shipping weight $11 / 4$ lbs

GENERAL RADIO TYPE 274 ME INSULATED DOUBLE PLUG
Atlractively designed，Molded－Styrene dauble plug assembly far rapid and can venient cannestions in the laboratory．lact op starking per multiple connections．Low copacitance，low losses，completely insulated for hand prolection，polority indicalian malded in．A crass hole in the center pravides slroin relief tar olloched cables up to 0．2＂Dio．Shipping weight 5 az．

## SWITCHCRAFT PLUGS AND JACKS



MIL TYPE PLUGS AND EXTENSION JACK
All meet industrial and milltary requirements．Plugs are made to Mil．P．642A Spect．The extension lach type 820 manship ossure oasitive internal interlack．Parts will nat manship ossure Dashtive internal interlack．Parts will nat rype 430 littel plug．All have screw terminals．Average trpe 430 littel plug．
Shipping Weight 5 oz

LITTEL－PLUGS AND JACK

＂LITTLE－PLUGS＂PHONE PLUGS－Compoct quality olugs Fits standord $1 / 4^{"}$ phane iacks encept＂with 206
diam．sleeve and $\phi$ ith shart sleeve for Rever．re carders．In plastic handle ar with brass nickel plated shells for shielding．Solder terminal ton buillin cable slamp．Handle 1．11 $16^{\prime \prime}$ lang，${ }^{\text {ig＂diam．Av．shpg．wi }}$ syork

| NO. | TYPE | FIG | CONO | Hande | TERMINALS | NET |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PJ． 42 | 240 | A | 2 | Block | Screw | ． 44 |
| PJ．43 | 245 | A | 2 | Red | Screw | ． 44 |
| PJ．44 | 250 | A | 2 | Block | Solder | ． 41 |
| PJ．45 | \＄．250＊ | A | 2 | Black | Solder | ． 44 |
| PJ－46 | 255 | A | 2 | Red | Solder | ． 41 |
| PJ．47 | 260 | A | 3 | Bloch | Screw | ． 71 |
| PJ．4 8 | 267 | A | 3 | Blosh | Salder | ． 62 |
| PJ． 49 | 280 | － | 2 | Metal | Salder | ． 59 |
| PJ－50 | \＄．280＊ | B | 2 | Metol | Salder | ． 59 |
| PJ－51 | R． 2801 | 8 | 2 | Metal | Solder | ． 73 |
| PJ－ 52 | 297 | B | 3 | Metal | Saider | ． 76 |

＂LITTLE－JAX＂PHONE JACKS（Fig C）Accept sfondorat mates witt 480 Mil trpe Whille．Plug．A Abbrs．SCC－

302
stor

| мо. | TYPE S | SCHEMATIC | CONO． | （KT． | JAM TYPE | NET |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PJ． 53 | 11 | 1 | 2 | OC | ーー | ． 24 |
| PJ－54 | C． 11 | 1 | 2 | OC | JJ． 034 | ． 35 |
| PJ．55 | S．11． | 1 | 2 | OC | －－ | ． 26 |
| PJ 56 | 12A | 11 | 2 | SCC | ーー | ． 26 |
| PJ－57 | C－12A | 11 | 2 | SCC | 11．089 | ． 44 |
| PJ－58 | 128 | 111 | 3 | OC | －－ | .32 |
| PJ．59 | C 1284 | 4111 | 3 | OC | JJ．033 | ． 41 |
| PJ． 60 | 138 | iv | 3 | SCC | － | ． 44 |

＂T゙INI－PLUGS＂SURMINIATURE PHONE PIUGS． $2 \cdot \mathrm{BON}$ ductor ohone plug for use with＂Tini－Jan．Only is／ length．In plostic of metal shielded hondies．Wt．， 2 az


## LAFAYETTE SPECIAL

## 2-CONDUCTOR PHONE PLUGS

 STANDARD 2-CONDUCTOR PHONE PLUGSPhone plugs for o wide variely of applicotions with choice of honde sizes and moterials. All steeves ift standord $1 \mathrm{y}^{2 \prime \prime}$ phone iacks. Avg. sinpg. wi., y oz. FIG. A. SLIM PHONE PIUG Smooth bakelite handle Solder terminols with coble slomp.
MS-4s 3 .... 10 for 2.15 MSAS3. BARREL PHONE PLUG ${ }^{25} 00 .-10$ for 2.15 handle. Screw terminols.
MS-4SS SHIELIOED SHM Net .22 eo - 10 for 1.90 FIG. C. SHIELOED SLIM PLUG Ribbed chromed metol hondle. Solder terminal with coble clomp.
MS-443 HIG D. PHONE TO PHONO PLUG ADAPTE 10 for 2.50 FIG D. PHONE TO PHONO PIUG ADAPTER AdOpts From standord phone plug to RCA type phono plug Overoll length $2 \%{ }^{\prime \prime}{ }^{1} / 2^{\omega}$ diam.
ms-444 Nol 39 eo. - 10 for 3.25
STANDARD PHONE JACKS FOR $1 / 4 "$ PWGS
FIG. E. OPEN CIRCUIT JACK Slondord open sircui phone iock, $\%^{\prime \prime}$ buihing, $\mathrm{Y}^{\prime \prime}$ long. Complete with mounting hordwar
MS-41 ${ }^{8}$ oz. .........Net . 19 eo. - ID for 1.75 FIG. E. CLOSED CIRCVIT JACK Same os obove bul closed sir
MS-454
MS-454 Not :19 eo. - 10 for 1.75 FIG. E. OPEN CIRCUIT JACK Open eircuit iock for ms-3la Shpg. Wt., 8 oz .
 phone plug. Screw lerminols. Borrel plostic handle matches MS-455 Borrel plug.
MS -442 Shpg. wt., 10 oz.. Net .22 e0. - 10 for 1.90


PHONO PLUGS AND JACKS
(A) single Prong shielded plug - RCA iype, uned extensively for mike. phono, ots
MS-167 - 10 for 35c Shpg
(B) Phono Jock - Accepts RCA type phono plug. Mounts in reor of ponel. (C) Solderless Phano plug - for phono, coas cables. in contocts center conductor, tob wrops oround shield ms-373 - Lots of 10,00 . 35 c Wi., 4 az. singly, *o. 3Be (D) Finger grip plug - Phono plug with hondy finger grip.
MS-471 - 10 for 50e Shpg. wi., 4 oz. .....singly, ea. ©e
(E) Semi-Solderless Phone Plugs - Fits std RCA type phono lacks. Needs only spot solder at tip. Plostic shell with finger grip. In black, red, vellow, green, while, blue: s Decify color.
MS-472 - 5 for 1.70 Shpg. wf. 4 oz. singly, ea. 38c (F) Feed Thru - Accepts moto phono plug of both ends.



PHONO PIN JACK SINGLE HOLE MOUNTING
$15 c$ ea. 10 for $\$ 1.35$
RCA trpe fomale input lack. Maunts mecuroly in aingle K" hole by meane of lecknut on lects, Scrown, auto and woshors unneceosion. ms-stes Shpg. wt., 4 oz.

## SUBMINIATURE PHONE PLUG AND JACK

Another Lafarette First!


MS-370 Plug ond Jock AND JACK


$$
\begin{aligned}
& \text { Two-conductor precision ormy type. Needs no screws; } \\
& \text { molded plostic cose cements fogether. Ideal for hear- } \\
& \text { ing oids, speoker entonsions, etc. Shpg. wt., } 4 \text { oz. } \\
& \text { MS-40-Plug only (Type PL-29II..................... } 36
\end{aligned}
$$

MS-41—Joct

## flat plug

Ulire-compoct type for use where spoce is Thick. Shpg. W1. bod MS-599.
.44
STANDARD PHONE TIPS
Heavily plated. Tokes up to No. 18 wire, 17 long. $40 z$
MS-39.................. 10 for 12
100 for 1.00
PHONE PLUG TO PHONO JACK
ADAPIER mmern
Brass, nickelplated odopter. Hos standord phone iock on one ond to toke regutor phone plug, and RCA-type phono plug on other ond. Hos threoded bushing with nut ond wosher so can be panel mounted if desired. Shpg. wt., 402.

HEAVY SHIELDED PHONE PLUGS (A) AND JACKS
(B)

(A) Sturdy, heovy brass, nickel-ploted phone plugs with screw terminal connections. Threaded insuloted coble out. lot moy be removed for larger cables to pass through. Body dio. $\%$ ", overoll length $31 / 4 "$. Shpg. wt. is 4 oz. MS-534 Plug ……............. Net ea. 59 if for 5.30 (B) Motching in-line phone jock, same canstruction as plug. Orerall length 2

NEW! ALL SHIELDED PHONO PLUG AND JACK

## (A) CM= $=?$

Removoble Shell for cosy soldering of wires. Positive ground connection through unique ground lug reduces hum to a minimum. Esira long handle mokes removal from omplifier a snop. Complelely shielded in brighi nickel plate on bross body ond shell. Fits oll RCA type jocks. $1.5 / 16^{\prime \prime}$ on bross body ond shell
long. Shpg. wt., 4 oz. long. Shp
MS-593
M5-593
Extension Coble Jock for use with MS. 593 of Net 19 type of phono plug. Shpg. Wt., 4 oz


10 handy $14^{\prime \prime}$ leads with minioture insulated olliga. tor clips oftoched to eoch end. Clips and leods color coded. 5 poirs each o different color. Ideol for serv. coded. Spoirs each o different color. I
icemon or


KIT OF 20 INSULATED ALLIGATOR CLIPS

Two kits of insulated alligotor clips. Kit A consists of 20 lorge size clips, thit 8 consists of 20 smalt size clips. All hove sturdy nicket-ploted jows with strong spring and hord bite. Eoch thit contains 10 red ond 10 block olligator clips, corded and bagged. Shpg. wh.. 8 oz MS-569 Kit B ( $11 /{ }^{\prime \prime \prime}$ )

## INSULATED ALLIGATOR CLIP


$7 c$
20 for 1.17

Sturdy nickel-ploted bross jows with plostic insuloted thumb rest and insulated borrel. Strong spring with hord bite. Solder lug connection. Overall length $21 / 2^{\prime \prime}$. Shpg. wi., 4 oz. Supplied in Red ond Block.
MS-451-Red Alligotor Clip
Net Eo. . 07
MS-5S2-Block Alligotor Clip
20 for 1.17

## CROCODILE CLIPS

Nickel ploted brass type for low resistance Quality springs mointain positive action. Pro vided with rubber insulation. Shpg. wt., 2 oz.


Hondy for quick connections. Plated bross olligotor clip with insulated hondles and 6 ft . of No. 22 stronded wire ottached. Clip is $1 \%$ " overoll. Shag. Wt., 8 oz.
MS 50 for 3.25 for 72 MS.536 Red

SINGIY, EACH .O8

## LAFAYETTE JUMBO

5-WAY BINDING POST
Accepti phone tip plug, a spode Iup, o banano plug, an alligator clip and a strand of wire. Head non-removable frem stand. Molded plostic construction. For ponals $1 / 16^{\prime \prime}$ to $1 / 4^{\prime \prime}$ thick. In either red or block color; specify.
PJ-37-Shps. wh., 8 oz. $25 . \quad$ Net Ea. 25

## METAL BINDING POST

10 for $1.35 \quad 50$ for 6.00
Mode of bross, heavily nickel plated overoll. With scrow ond lock wosher. Shpg. wh., 8 oz.

## KIT OF 10 5-WAY BINDING POSTS

- FOR BANANA PLUG
- FOR PHONE TIP PLUG
- For spade lug
- For alligator clip
- FOR STRAND OF WIRE

For ponels $1 / 16^{\prime \prime}$ to $1 / 4 "$ thick. Assortment of 10 pieces, 5 Red and 5 Block. Shpg. wt -, 8 oz
ms-5cs Sinding Fort Kit

## PLUGS-JACKS-TEST LEADS-LEAD WIRE

 INSULATED PLUGS Fig. A. Insulated Tip Plug. Heary duty. Solder type. $1 "$ hondie. $21 /{ }^{\prime \prime}$ overnil. Specify color.
PJ. 10 .......................Net ea. . 15 10 for 1.35 .............. 100 for 12.15
Fig. C. Insuloied Solderless Tip Plug. 1"handle, 2" length averall. Specity color.
PJ-11.
10 for $1.35 \ldots \ldots . . . . . . . . . . . . . . . . . . . ~$
100 for 12.15
Fig. D. Insulated Short Tip Plug. Solder type. $1 /$ handle. $1-17 / 32^{=}$ Solder type.
overall length.
PJ. 12
Plug ond focks are ovailable in Red. PJ. 12 $\qquad$ Net eo. .12
Hg. E. Insulated Banana Plug Spring rype. Infernal sef screw for soldering. 1" handle. $1.15 / 16^{\prime \prime}$ length overall. Phospharbranze. Specity color

## PJ.13..............................Net eo. . 21

 10 for 1.89................. 100 for 17.01 Fig. F. Solderless Insulated Bonana plug. Spring type. I" handle. 1.11/16" averall. Specify calor.PJ.14
Net wo. 18 PJ-14.............................. 100 for 14.60
10 for 1.62 ........ Fig. G. Solderless Insulated Banano Plug. Split type. I" handle. $1.9 / 16^{\prime \prime}$ overall. Specify color.
PJ-15
Fig. K. Insuloted Spade lug. \%/" handie. $1 \%$ " length overall. Specify Red or Block.
PJ. 19 .99

Net ea. . 11
10 for .99
100 for
ATED JACKS
Fig. L. Phone Tip or Bonono Plug Mounts in $5 / 16^{\prime \prime}$ hale. Specify catar PJ. 20 Net 0 . 15 10 for 1.35 Net ear. 15

Fig. N. 5. Way Binding Post. Takes phone tips, benano plugs, spade lugs, ollegotor clip, wire. All insulated tyce. Specify Rod or Block.
PJ-21.......................... 10 - 27
Fig. O. Nylon All Insulated Tip Jock. I" averall. Mounis in $\%$ " hole. Specity color -J. 22 10 for 1.62 Net eo. . 18 Fig. $P$. Insulated 7 保 Jock. $1.1 / 64^{\prime \prime}$ overoll length. Mounts in $5 / 16^{\prime \prime}$ hate. Specify color.
 10 for 1.17 .................. 100 for 10.57
Fig. Q. Nrion Insulated Tip Jock. With nylan washer. $1^{\prime \prime}$ averall length. Mounts in $5 / 16^{\prime \prime}$ hale. Specity color. PJ-24..............................Net eo. . 18 10 for $1.62 \ldots . . . . . . . . . . . . . . . . . . . . . .100$ for 14.60 Fig. R. Insuloted Banono Jock. 21/32" averall length. Mounis in 5/16" hale. Specify calor.
PJ-25................ 12 10 for 1.03...................... 100 for 9.72
Fig. S. Instrument Banono Jack. 27/32" averall length. Mounts in 5/16" hale. Specify calor.
PJ-26...
10 for 1.35
lock. Yellow. Green and Blue.
Fig. T. Nyion Insuloted Banana Jack. With nylon washer. Overall length $53 / 64^{\prime \prime}$. Mounts in $5 / 16^{\prime \prime}$ hole. Specify calor.
PJ-27. $\qquad$ Net 20.18 100 for 14.80 METAL JACKS
Fig. U. Metal Tip Joch. Mounts in 1/4" hole.
PJ-28...
60
Net eo. . 10
10 for 80 ................ 100 for 8.10
Fig. V. Metal Bonano Jock. Mounts in $1 / 4^{\prime \prime}$ hole.
PJ.29.............................Net ea. 10
10 for .90 ...................... 100 for 8.10
Fig. W. Mefal Banana Jock. Mounts
in $1 /{ }^{\prime \prime \prime}$ hole.
PJ. 30
Net eo. 10 10 for .90 NON-INSULATED PLUGS
Fig. X. Soldertess Phane Tip, Sr. $18 / 10 n g$
PJ. 31
Nel eo. . 10 10 for $.90 \ldots . . . . . . . . . . . . . . . . .100$ for 8.10 Fig. Y. Solderless Phane Tip. Jr. $1.3 / 18^{\prime \prime}$ long.
PJ.32.... 10 for .90
Nel ear . 10
Fig. Z. Banana plug. Spring type. 13 " pverall. $6.32 \times 1 / 2^{\prime \prime}$ stud.
PJ-33............................... 15
10 far 1.35 ................. 100 far 12.50
Fig. AA. Banono Plug. Spring type. Screw in heod. $1-1 / 32^{\prime \prime}$ averall. PJ-34 ........................Net eo. . 15 10 for 1.35 ............. 100 for 12.15 Fig. B8. Banona Plug. Spring pype. $11 / /^{\prime \prime}$ overall. $6.32 \times 3 /{ }^{\prime \prime}$ siud.

Fiq. CC. Bonano Plug. Split type. $11 / "^{\prime \prime}$ overalı. $6.32 \times 1 / 2^{\prime \prime}$ stud.
PJ-36
10 for 1.26
Net eoj .14
100 for 12.15

## G-C NE-O-LITE <br> A simple, sale, electrical circuit tester for

 or DC.Used for rodio, electrical and oufomative testing. Molded plosilc. Shpg. Wi., 2 MS. 257

Nel, eo. . 45
Lots of 10. oo. . 41

## 10 BELDEN TEST PROD WIRE <br> 

 volioge leod. No. 18 stronded, finned, collon woop 8899 for 5000 working volls. 8998 for 10,000 working volts: Specitr red or block. Shpes. wt., 2 ot.| $10 \mathrm{ft}$. | 25 ft | 100 Ht |
| :---: | :---: | :---: |
| Met | Met | Net |
| .41 | .73 | 2.25 |
| 50 | 15 |  |

## G-C MASTER TEST LEADS

Heary duty test leads. $50^{\prime \prime}$ lang. Sol. derless troe. Expra flexible leads run under the tnurled callar are foslened Shog wi 6 ors

## Shog. wr. 6 ors

-296-Test Leads with sol.
stroight lips.
P-297 - Tesl leads with angle Pype lips.
1.23

## STRETCH LEADS

Self colling-kink proot-retracts to colls. Estends to 6 feel. Saves cluther P-298 .....Nel per pair 2.91

HIGH VOLTAGE

## LEADS

For hi-valp resting in TV sets. Extro heovy duly. Special finger guards high lension wire. 22,000 volts.
heor breokdown. 48" lang. Shpg. wt. 6 oxs.
MS.538 -with phone
M 5-539 -with spode
lugs..............et per pair 1.94
Ms. 540 -with alli.
gotor clips......Net per poir 2.35

## THIN TYPE $50^{\prime \prime}$

 MS. 541

Net per pair.
1.12

## G-C KLIPZON TEST LEADS

Moxlmum time soving. conven. Sence, sotety. Clips an to wires.
lugs, terminols for firm contaci lugs, terminols for firm contact of test points. Frees both hands. $48^{\prime \prime}$ super Hexiblo leods. With phone tip ferminals. Shpg. wh
P-299
Nep per poir
1.62


## G-C KLIPZON ADAPTERS

 Convert ald lest points to self holding prods. Fits over slandard phane tips or needle type. P-300 -Rod ....... 2 oz.........Net Eo. . 38 P-301 - Black ...... $202 \ldots$ Net Eo........... 38
# LAFAYETTE SPECIAL ELECTRICAL ACCESSORIES 

VEWI Minneapolis-Honeywell TAP-LIE

- QUIEI - CONVENIENT - TOUCH ACTION
- COMPLETE COLOR VEASATILITY - SUPER SmOOTM ALMOST SOUNDLESS - SCREWLESS TERMINALS

desimpletely new concept in wall ewitch dellin. Trim, ivory button and cenceve permits using ony color or moteriol to match or contrast with ony wall colar Connects in less time than old foshioned woll iwitches throuph use of uniave scrowless terminols. Con be instollod in a fow seconds by anyone. No extre ir ing noeded. A feather-light touch artuates ing needed. A feather-light touch artuotes the switch. Top-It's on. Top-it's off. Free colar inserts with earh switch-can be used os is-pointed-or used os a pattern. Fifs standard electrical bores. Doted 15 omps., 120.277 V.A.C. U.L. Insp.
EL-4s-Single Pale-tist 1.95 ........................Net 1.43
 EL.51-Single Pole-2 2 ong-list 4.00 …..........Net 2.94


THE MULTI-PLUG OF A HUNDRED USESSAFE AND CONVENIENT TO USE
ats. Permis use in areas having a limited number of outof one time. Easy to install or use unmountod Reted af 1000 watis. Ivory colored tough plastic $12^{\prime \prime}$ iong by $1^{\prime \prime}$ square. Four foat heavy cord ond plug. Shpg. wt., Ith lb
EL-11 - Some as obove bui $2^{\prime}$ long
Nef 1.47
Net 2.40


## C HANDY LITE NEW LOW PRICE

- Portable light and power - Lecks af ony length of 20 ft . - Retracts automatisality

Providel light ond power up to 20 teet from installation. Swiv. els $180^{\circ}$ when woll mounfedmounted. Detaches coiling change location. Simply hang it up and plug it in Eliminater the inconvenience and hazards of tanaled cords. U.L. opproved. Shpe, wt., 5 lbs
EL-70
CORDOMATIC EXTENSION CABLE. Similar Net 6.72
escopt lerminotes with an cable similor obo obo. fisture. Entremely versotite-use indoors or aut un high proved. Shpg. $\mathbf{w l}$. $41 / 2$ lbs
proved
EL-71


## f. TROUBLE LAMP

 - 2 side Ouilet Tool All rubber sheoih-all copper wirel Flip-lok coge allminates removing from handle to relamp. Uses any standard lamp. Heary rubber plug-push iwitchrugged rubber handie. Fifty feet of husky, rugged con. venience. Light and power wher you want il. A nec essity in the shoo -home-garage-car. Shpg. wi.. 4 lbs. EL4.NEWI Electrostrip OUTLET SYSTEM


- Every Inch on Outlet! mounts onywhere quickily - oosily - No breoting Inte wolls Add eutiefs-move

The most notoble wiring development in vears. Intended for use in commercial. Instifutional, industrial, office and residential occuponcies. Quick-osy Installotion onywhere. On baseboord. workbench, walls, counters-conducting or non-conducting surfaces. Hand forms to corners ond irregularities. Eliminates extension cord dongers. No need for outlet plonning-the ouflets move os you choose. Per manent or temporary insfallations. Becomes o neat, ot ractive part of ream decar-can be painted. Electrical connections where you wont them-when you wont them along its onlire length. Maximum sofety combined with accessibility. Will nat support combustion. The four ft. hif includes four ft. . of strip, 3 receptocles, 2 and cops, 12 leed in cord sel and if includes 15 ft . of strip, foed in (outlet typel 4 re All ore U. $L$. opproved. 15 Amps 125 V . AC. All ore U.L. opprored. 15 Amps lis V. AC. . Nel 2.29 El-6s is f. kit-Shpg. wi., $31 / 2$ lbs. .................Nel $\mathbf{7 . 8 0}$ EL-60 Exfro receptacle. Shog. wi., 3 ors | Ne1 7.85 |
| :--- |
| Ne1 |

## "TAPESWITCH"

 MATS AND STRIPS

Toperwitch mats close on electrical circuit whenever any one - EVEN A SMALL CHILD - sleps on them. Actuated by less than 5 lbs. weighil Ideol os doar mot onnunciators aulomont doo apeners in faod ond department stores; con be used to Perfect for ahs, fing belis, ocivole electric couniers, etc There units ore only $3 / 32^{\prime \prime}$ homes, stores, and industry hese units ore only 3/32" thisk. can be ploced under rugs whout bulging. Finished in brown, texfured Vinyi with 6 ft . cannecting cord. Sa durable, these mats will octually withstand hommer blows without domoge Model $5 \mathrm{~W}-28^{-1}-16^{\prime \prime}$. $23^{\prime \prime}$ mot for normal use on floors under rugs, etc. tots of 6. ©0.7.50, Singly ea. 1.33 Model SW-29 - $6^{\prime \prime} \times 24^{\prime \prime}$ mat speciolly designed for use on stoirs. Lots of 6, 20. 2.65, Singly eo. 2.94 Topeswitch Strips with 4 connecting cord.
SW-31 $1 / 4 \times 2$ lais of 6 , each 2.48. Singly each 2.75 $5 W-321 / 4: 5^{\prime}$ lais of 6 , eoch 4.28 . Singly each 4.75 EL-52 Accessories
Et-53 voll transformer for bell or chime. Net 1.70

VINYL PLASTIC ELECTRICAL TAPE

## - 10,900 V. BREAKDOWM

First quality. presure sensifive potwinyl chloride tape Entromely high dielectric strongth of 10.900 V breakdown Insulotion resistonce of one million megohms. Over $150 \%$ longotion of break. Excellent resistonce ogoinst acids alkolis, oils, soll woter, etc. Tensile strength of 15 lbs oer in. High conformobitify: Forms lighs, smooth pro tecrive wrop. Shpg. wt., 6 oz
MD-216-Plostlc Mectrical tope: 1.5 Net each 70 6.23
Net each sot 24-over Net eoch 544
Colored Vinyl Plastic Tape Kit

- 10 Rolis-10 colors - 1 million mes ohms insulation resistance 33 f . I $1 / \mathrm{s}^{\prime \prime}$ 10 Kolls of Polyvinyl chtoride tape colored Red, White Sky Blue, Blue, Grey, Yellow, Brown, Green, Black and Orange. Dielectric strength $10,900 \mathrm{~V}$. Insulation resistonce 1 million megohms. Resists acids, fars and oils, 15 lbs tonsile strength. 008 in. thich. $33^{\prime \prime}$ pet roll. Shpg. Wi 11/2 lbs.

Net Each 3.29
"TAPE-ALL" PLASTIC INSULATING KIT
Finest Quality high conforming plastic rape Perlect for Color Coding Cables, moking solices, identifying tools. Siz colored rolls in eoch kit packed in a reusable plasfic confainer. Calors ore Red, Yellow. Blue, Green, Black and transparent HD-477


## PERMA-PLUG

- SAFE OUTLETS IN ONE EASILY INSTALLED - U.L. APPROVED
Eliminates bothersame "plug switching". Now yau can plug in UD to four opplionces in the spoce which for merti occommodated only two. Permo. Plug is quickly and eosily installed. Fits ony stondard 125 VAC double aut let. 15 AMP
EL. 72 Brawn

Nel eoch . 53 EL-73 White

Net each .60

## (4D) NEW! "CORD-MOUNT" <br> ELECTRICAL SAFETY DEVICE

 wolos electalc coros safely ame MEATLY OUT OF THE WAYQUICK, EASY INSTALLATIOM

Here is a safety device which is worth many times its price. Nof only does if eliminate the wire tripping has. ard and protect childien from dangeraus electric shock, but also does away forever ath the "Spoghelli dike" langled cord mess. Now your oppliances wiring can hove a neat, compoct orderly oppeorance. Can be installed EL-74 Brown

Net earh 79

## eorh 79

EL75 White ELECTRICAL ACCESSORIES


1. SINGLE SURFACE OUTLET. Mrimn EL+\$5-Fis... do9.............. 10 for Bit
BAKELITE PLUG. NLurdy prongs, EL-16 Hia., 05............. 10
EL.35 1 ( $\mathrm{EL} \%$ +arh
2. NITE AMP Plupe Into ony .22 Swivel \$hode Complote with ony outlet. off swifch. U.L. opproved.
Et-44-In lots of $3 \ldots$ each 40c
Singly each 45c
3. CURRENT TAP. Hakellte. Stralaht morket whith 2 plug outlets.

DUPLEX FLUSH RECEPTACLE.
7. 3. WAY SURFACE OUTLET. Itroun. EL-24 tia.. I4................. 10 for 1.26 8. CUBE TAP. Itronn. 3 uutlels. Shif. plog पekikh vuines. 9. HANDLE PLUG. Of soft rublier. ShJp. Ping wrikht 1 ounce. 10. MIDGET CORO CONNECTOR. Flat
 II INSULATED STAPLES.
E EL. 14 - Parkace of 100 .
10 for 2.25

10 packanca for
12. RUBBER CUBE TAP


13. CUBE TAP EXTENSION, Trio tan. 4 it. rubber rord. AC, illuk. Itrinn
EL-29-lirown....Fi... 41 ... 10 inr 3.69 line mards fine fuality zin cord with sturdy pluk. . 19 15. CANOPY SWITCH. Hotary type, mm 15. CAN OPY SWITCH. Hotary type, com-
pusitilin toph. Fery, shalluw. WiJre leads.
 SW-18 riacli....... 18 ...... 10 fir 1.62 16. dify PUSH PULL PLUG. Attaches in 5 secands withaut any taals. Spring prangs. Blact
$\qquad$ 17. RUBEER COMO CONNECTOR. Wizh livil handle for extenxilin merds. 1 "/4" di armerer. li, lat 12.iv


## General Cement-Radio \& T.V. Hardware and Chemicals




Combination hit of 6 colors, poputar shade of mood Scratch-Stich fillers and 2 botties scratch remover lifquid P-258 Shpo.wp., 2 :bs.................................... 1.62


## deluxe cabinet REPAIR KIT

### 5.73

Comes in hondy metal bon Contoins ten shades of shelloc sticks, boltles of light and dork oll stain, bottles of metal shoding vornish, polish, General Serotch Sitk, oicohol lomp (with olcohoi), spolulo, small brushes, steel wool. sondpoper, and wiping cioth. No special skill required. Directions. Shpg. wh., 3 lbs.
-259


| ing-wuterprool-htrong bond. |  |
| :---: | :---: |
| P-27e 2 oza, Nhple | Net |
| Rubber Coment Fast drying-waterprool. Cements rub- |  |
| ber to metal, wood, glask, ete |  |
| P. 2772 ozs. Shipe wt.. |  |
| P-278 \% ¢\%, shym, wi |  |
| Cablnet Glue Well known woxd alue for cubinels, furnt-ture, ehalrs, etc. |  |
| ture, chalrs, |  |
|  |  |
| Fil-0-Bond Cement Sticks anything to anything. Drien rapidly-waterproof-very high strength. |  |
|  |  |
|  |  |
| Red-x Corona Dope Preventa corona shorts in Hi-VoRge circuita. Flexible - faxt drying. |  |
|  |  |
| - Dop. |  |
|  |  |
| P. 203 | Net 44 |
| Magte Scratch Remover Dark whade. Mont useful polinh. |  |
| Covers acratchen-renewn appearance. |  |
|  |  |
|  |  |
| Maxte Scratich Remover Light ahade. Removee neratches on blonde-minple一and all lighl woods. |  |
|  |  |
|  |  |

##  <br> RETMA COLOR CODING KIT 1.44

Complete kit of all stondord RETMA colors. Block, brown. red, orange, yellow, grean, blue, purple, gray and while. Brilliant - durable colors. Complote with brushes and RETMA colar code chart. Shpg. wi., 2 lbs.
P-240


## LUMINOUS LIGHT

COAT KIT
3.17

Long-life, non-poi-onous cooting obsarbs light in the doy time ond glows in dorts. Hundreds of uses in lab, home, office, tactory. Conlaíns luminaus powder - ihinner - Top Kool and brushes. Shpg. wt., 2 lbs.
P-26 1


Crome.O.Wax Polleh For TV and radio cabinets, Dries
 Electronic Contact Cloanor New red cleaner-mide with
 P. 2892 ozs. Shug. Wi.. 3 oz.................... Net $\mathrm{sem}^{2} 3$ Scratch Stich llandy stick for servicernen. Removen

## Cnse.

 controls, phono. etc.
P. 2912 ozs.sthpk, wt., 5 ae.......................... 44 Lidald Mon-Sitp Penetratink-fant drying. Prolong life of cablen und bellin. Prevents alipping.
P-292 2 ozs. shipk. He, 3 nit. for phones. Will not P. 2932 oz. Rube shiug. wh. 30 on................... 53 Dlal ond Applionce Oll Free running oll for diale. controls. ammill motorm, etc. In handy apout can. Net 53
 ern, tape recordern. etc. Shpa. Wit., 1 lb . Net P-295

## CONTACT CLEANER hYPODERMIC ELECTRONIC NEEDLE INJECTOR .47

Hers's a handy opplicator mase on the hypodermic principle to Iniect cleaners and ails into shofts, controls and light ploces. Its o tool every service mon should have to save Nme. Applicator is supplied with a 2-ot. bottle so you con use G.C Cleoner with this hondy opplicator.

## NEW G-C

## STICKLEBABY

Handy mol for the hobbylst engineer or verricemon. Com. bination drill, sow, and rosp. Sows ropidly. cuts straight lines, circles, squares, etc. For use on wood, ploster, ply. boord, plostic and mosentto. Shpg. wh., 10 oz .

# WIRE－Belden－Alpha－Consolidated－WIRE 

## ALPHA THERMOPLASTIC HOOK－UP MIL－W－76A





## MW（MEDIUM WALL）STR ANDED




## H．MINIATURE parallel cable

Mulif purpose minloture zip cord． 2 conductor 24 gouge stronded．Entremely henible．for Hi－ trot，etc．Avoiloble in white，brown eroy，ton Please specify color．Shpg．
100 H

## BELDEN TEST PROD WIRE

Entremely nexible．limp rubbes covered hi－ voltoge lead．No． 18 stronded tinned，cotton 10.000 working valts．Soecify red or blech Shpg wh． 100 ft .2 ibs


Eiden 8899 Belden 8898

2 COND．SHIELDED PHONO CABLE

## BELDEN ACETATE <br> HOOK－UP WIRE



Color－coded vinyl insulated cablep for telephone and inter－ cabled in twisted pairs．Chrome rinyl outer covering．

| $\begin{aligned} & \text { Mrr's } \\ & \text { Type } \end{aligned}$ | Con－ ducters | O．D． | Shpe．We． 100 ft ． | $\begin{aligned} & \text { PER } \\ & \text { FOOT } \\ & \hline \end{aligned}$ | $\begin{gathered} 100^{\circ} \\ \text { or moro } \\ \text { PER } 100^{\prime} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 8740 | ？ | ．134＊ | 1\％libe． | ． 025 | 1.76 |
| 8741 | 1 | ．18； | 2\％lba． | ． 035 | 2.89 |
| 8742 | A | ． 220 | 34 lhs ． | ． 05 | 5.82 |
| 8743 | 12 | ．26\％ | 4\％ lm | .07 | 5.88 |
| 8744 | 18 | ．320＂ | $6 \%$ ins． | ． 10 | 7.78 |

## PUSH BACK WIRE



No otrlppling neressary．Juat push back brild and wire is exposed．No． 20 gauge or randed or wilid．In red．green，bleck．blue or yrllow．Specify color，Shps．wt．． 100 ft ． WR． 110 25 fe stranded
WR．
WR． $W R-111$
$W R-112$

$W$ | Net |
| :--- |
| Net |
| Net |
| Net |
| 1.36 |
| Net |

## 1 POT AND POSJ AC ZIP CORD

 U．1．opproved， 2 cond．No， 18 aip cord．Forlomp cord，speoker extensions，tc．POT plastic insulation．POSJ
Shpg．wp．， 3 lbi， 100 Wh－35－POT 100 ft. WR－47－POT 250 ff ． WR－34－POSJ 100 ft
WR－48－POSJ 250 ft

Net 1.88
Net 4.50
Net 2.40
Net 5.35

## INTERCOM WIRE


cond uistor Twisted Fleuible tinned tastic insulotion．Shog．wi， lbs copper with Wh－12 100 ft ．coil …．．．．．．．．．．．．．．．．．．．．．．Net 1.19 3 conductor twisted：Shpe．wt．． 3 lbs．per 100 ft ． Whel4 100 f．coll Net 1.50 We－15 250 ft ．spool 3 conductar twisted with plastic sheoth 3.50 wt．， 3 lbs．per 100 ft ．
en shos Wh－16 100 ft ．coil

Nop 1.95
Nol 4.50

## LITZ WIRE

Copper Colenomel insuloted nyion wrop． $5 \times 44$ stranded O．D．008．For newinding RF coils，onlenng primories， O．D．008，For newinding RF co
elc． $100^{\circ}$ spool．Shpg．wh．， 4 oz．
$\qquad$
PHONO PICKUP ARM CABLE

## Flemible，stronded，Iwisted pair．

 meter．Shpe．wt．， 4 oz
## BELDEN MICROPHONE CABLES <br> SINGLE

CONDUCTOR
Durable ytagle conductor cables．No． 25 tinsed siranded Wire： 3 z33 copper and 4x：33 copluer－coated ateel．Cuncentric corerings include：cellulose ametale sarn bratid，polijethylene． tinned copper shield．and chronie colored plastic oute jacket，Rubier insuiation and atlver

| Belden Type | O．D． | $\begin{aligned} & \text { Wt. } \\ & 100 \mathrm{ft} . \end{aligned}$ | $15 \text { it }$ | $\begin{gathered} 25 \mathrm{ft} \\ \mathrm{~N} \in \mathrm{t} \end{gathered}$ | $\begin{aligned} & 50 \mathrm{ft} \\ & \text { Net } \end{aligned}$ | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 8401 \\ & 8410^{\circ} \end{aligned}$ | $8$ | 3 | $.85$ | $\begin{aligned} & 1.18 \\ & 2.06 \end{aligned}$ | $\begin{aligned} & 2.30 \\ & 3.82 \end{aligned}$ |  |

TWO－CONDUCTOR CABLE
Helden type 8428 two condurtor cablo is No． 18 stranded （ 41834 ）cotion wrap，with silver kPay rubber jucket．Tspe W112 is No．zo stranded（ 26 an3t）rotton Wrip rubber in sulation．silver gras ruhber jackel No．8t－2 is No．22 ton and chranne plastic outer jacker．Ayallable onils in leniths Isted thelow：


| ye |  | 100 t ． | Not | Net | Net | Not |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8428 | ．29．\％ | Fllse． | 1.71 | 2.79 | 5.29 | 10.29 |
| 8412 | ．268＊＊ | 51／4tibs． | 1.42 | 2.30 | 4.23 | 0.08 |
| 8422 | ．231＊ | $+\mathrm{lbs}$ | 1.08 | 1.67 | 3.09 | 5 |

## SHIELDED PHONO PICKUP CABLE

Belden Type 8311．Extremels limp and iexthle．No． 2 atranded（15x36）tinned ropDer，rubber morered．ilnned copper shield．browo rotion outer jackel．Onls in lenath Belden Type $8431 \quad 15 \mathrm{ft}$ ．coll

EACB .65 Beldon Type 8431
Belden Type 8431 f．coll． 100 f coll．

EACH 309

## WEATHERPROOF EXTENSION

 SPEAKER CABLERelden Type 8205．Unimiedided ：monductor cailic for ex－ tension speater tinatallatlomad Interromeng ore inill


EACH ${ }^{.81}$
Belden Type 8205100 fi coll．．．．．．．．．．．．．．．．EACH 2.4 COVERED CABLE

## or Interrom．telephonr and spesker wiring，color croletit Sinyl platifc Insulation，Condturtors are tinned．copjuer

 stranded wire．All rondurtors are no．wit expyt＂no．100 o Typ：Con－Cors
## 8443 8444 <br> 8444 8445 8446.

$8446^{\circ}$
8447 ．$^{\circ}$
$8448{ }^{\circ}$
8448

## MAGNET WIRE <br> Finest nuality．Arallatie in <br> pioin en mei or hen iv mantin insulaction

| 868 <br> SIZE <br> 18 | ${ }_{\text {FiP．}}^{\text {Fi }}$ | \％ $1 / 4.5$ | SPOOL | \％ $1 /{ }^{\text {Lb }}$ | SPOOL |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{16}$ | 185 | W月．70 | ． 38 | wR．71 | ${ }_{6}^{67}$ |
| cer ${ }_{20}^{18}$ | － | W月．72 | ${ }^{.38}$ | WR．73 ${ }_{\text {Wh．}}^{\text {W }}$ | ． 67 |
| $\frac{23}{24}$ | Sos |  | 10 | $w^{\mathbf{W}-77}$ | 71 |
| ${ }_{26}^{26}$ | 1380 | $\mathrm{Wh}^{\boldsymbol{W}-80}$ | 14 | WR．81 | 78 |
| ${ }^{28}$ | 20：50 |  | ${ }^{46}$ | Wค．83 | ． 2 |
| ${ }_{32}$ | ${ }_{5100}$ | W月．88 | ． 52 | WR．83 | ． 93 |
| 34 | 8080 | w ${ }^{\text {¢ }}$－88 | ． 59 | WR．69 | ${ }_{99}$ |
| ${ }_{38}^{38}$ |  | W月．900 | ${ }^{.65}$ | W $\begin{gathered}\text { w．9．93 }\end{gathered}$ | 1.62 |

heavy formyar in i lb．spools

| STock | 812s | FEET | NE |
| :---: | :---: | :---: | :---: |
| $\underset{\text { WR．96 }}{\text { WR }}$ | 18 | 78 | ${ }^{1.22}$ |
| WR．98 | 18 | 198 | 1．26 |
| WR． 100 | 22 | ${ }_{501}$ | 1.38 |
|  | ${ }_{28}^{24}$ | － 9 | 1．58 |
| WR．103 | 28 | 1999 |  |
| WR ${ }_{\text {Wrat }}$ | 38 | ${ }_{32900}^{3200}$ | 1．07 |
| wh．106 | 34 | 7950 | 2.28 <br> 2.50 |
| （ $\begin{gathered}\text { wh－107 } \\ \text { w－108 }\end{gathered}$ | 368 | 12．8000 | 2.58 3.20 |
| W月－108 | 38 10 | 31：700 | 4．75 |

## TELEVISION AND INDUSTRIAI WIRE



For RF applications. Meets oll rigid militory and cem morcial specificafions. Impervious to weather ocids, kelis, oil and gosoline.

| phenol | Tre | , |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 21.001 | S/4 | ${ }^{\text {Onms }}$ | Per fr . |  | per 10 | 1.99 | 499 |  |
| 21-003 | 5/4 | cis $\begin{aligned} & 32 . \\ & 97\end{aligned}$ | ${ }_{\text {che }}^{28.5}$ | ${ }^{.332^{*}}$ | \% | ${ }^{134}$ | 131 | 118 |
| 21.009 | ${ }_{8 / 4}^{8 / 4}$ | 52 | ${ }^{29.5}$ | . 025 " | 12 | .132 | .121 | 1 |
| 21.290 21.005 | 8/4 | 近 | ${ }_{30}^{20.5}$ | 40, 42 | ${ }_{12}^{121 / 2}$ | \% 1314 | . 1245 | . 238 |
|  | 9A/U | 51 | 30 | 420" | 121/2 | . 383 | .351 31 | 16 |
| 21.007 |  | 75 | 30.5 | . 40 S" | ${ }_{12}^{121 / 2}$ | :407 | . 3172 | 5 |
| ${ }^{2} 11-210$ | 114/4 | 75 52 | ${ }_{20.5}^{20.5}$ | . $8.545^{\prime \prime}$ | 121 | :1434 | .131 | 372 |
| ${ }_{\substack{21.013 \\ 21.298}}$ | ${ }^{17 / 4}$ | 52 | ${ }^{29.5}$ | .870" | 4 | . 024 | . 571 | . 514 |
| 21-015 | 19/4 | 52 | 20.5 | 1.120" | 75 | ${ }^{1.051}$ | ${ }_{1} .3900$ | . 537 |
|  | $21 / 0$ | ${ }^{53}$ | 29 | .332" | $81 / 2$ | . 285 | . 201 | .235 |
| ${ }_{2}^{21.018}$ | ${ }_{29}^{22 / 0}$ | $\stackrel{95}{93.5}$ | ${ }_{\text {l }}^{18.5}$ |  | 12 3 | . 170 | .155 | 1.50 |
|  | sith/u | ${ }_{\substack{58.5 \\ 53.5}}$ | cos20.5 <br> 28.5 | , | $31 / 2$ | .004 | .084 | - |
|  | 58/u | ${ }_{53}^{53.5}$ | 28.5 | .209** | $3{ }^{31 / 2}$ | . 101 | .092 |  |
| ${ }^{21-199}$ | s8a/u | 50 | 28.5 | .195" | 3 | Os7 | :os2 |  |
| - | S9\%/U | ${ }_{73}^{50}$ | ${ }_{21}^{28.5}$ | 195" | $31 /$ | O0s5 | .059 |  |
| 21.291 | 59/4 | ${ }^{73}$ | 21 | ${ }^{2422^{\prime \prime}}$ | 81/2 | O81 | .085 |  |
| 21.318 | ${ }_{\text {O2A/U }}$ | $\stackrel{9}{93}$ | ${ }^{13} 13.5$ | . $24.242^{\prime \prime}$ | 41/2 | .085 | .060 |  |
| - $\begin{aligned} & 21.027 \\ & 21.029\end{aligned}$ | -83/4 | ${ }_{93}^{123}$ | 10 | . $2.50{ }^{\text {²0 }}$ | , | 139 | . 127 |  |
| 21.723 $\substack{21.720}$ 21.140 | ${ }_{11} 114$ | ${ }^{93}$ | 19.5 <br> 14.5 <br> 2.5 | .2245" | $41 / 2$ | $\stackrel{1118}{\text {-119 }}$ | . 108 | 097 |
| ${ }_{21}{ }^{21}+41$ | $122 / 4$ | 185 | ${ }_{29} \mathbf{6 . 5}$ |  | 121/2 | -152 | .1388 | - 1 |

## COPPER AERIAL WIRE

Finest grode high tensile strongth capper ar all on
Will-64- 75 ft. 7/22 bore WR-65-100 f. 7/22 bore Wh-63-75 fi. 7/24 bore Wh-64-100 ft. 7/24 bare WR-62-75 ft. 7/26 bare WR-67-100 It. 7/26 bare WR-68-100 ft. 12 solidenemel Nel . 85 Wh . 69 - 100 t 1.14 solid

## LO-LOSS OPEN LINE



Four llemible standed copper conductors tough plostic insulation. Shpg. wh., 3 bs, per 100 ft
WR-24-per f1. . 03 per 100 \%. 2.39


SPECIAL TUBULAR AIR-SPACED IWIN LEAD
2.50
per 100 ft.

## UHF-VHF

Exireme Low Lose
300 ohm oirspaced tubulor leod with copperweld conductors. Shpg. wi., 3 lbs oor 100 H.
W胃-46-per 100 f .

## NEW UHF/VHF 300

 OHM OPEN WIRELowest possible line foss-perfect impedonce motch, May be uted interchongeobly with tubulor or 300 ohm flot without mismotchingl Attenuation overages only 1.9 db over entire UHF bond. No. 18 copperweld wire-purie polyethylens teporeters spoced af $6^{*}$. Spaced onty $4 \mathrm{a}^{\sim}$ between conductors - may be used with stondord stand-off insulotors. Shpg wt., 2\% lbs. per 100 ft . Wh-22-100 ft. - 250 TT. COIL WR-22-550-500 ft. Spool
2.15
4.85

LAFAYETTE IS HEADQUARTERS FOR THE RADIO.TV SERVICEMAN AND DEALER

All branded with stondard type numbers and meet requirements of RG cables on Quati fied Product: list of U.S. Gavernment. Avoiloble only in lengths indicated.



## BROWN 300 OHM TWIN - LEAD



### 1.39 copper conductors

 per 100 ft . Lo-loss polyethriene High quality. low.loss leod-in for oll TV and FM instollations. Polyethylene. di - lectric-standord eopper leodr. Shog wt. 2 lbe. per 100 It:Stock No. WR-25-100 It
1.39

500 H.
1,000 1
10.95

## CLEAR 300 OHM TWIN LEAD

some os above bul clear for a beller Some as above but cleor
biend with the base boords

| $\begin{aligned} & \text { WR- } 128 \\ & \text { WR- } 129 \\ & \text { WR- } 130 \end{aligned}$ | $100^{\prime}$ $500^{\prime}$ $1000^{\prime}$ | 1.64 6.25 11.95 |
| :---: | :---: | :---: |
| AMPHENOL |  |  |
| UHF-VHF |  |  |
| TWIN |  |  |
| LINE |  |  |

(A) 214-056 300 ohm flat iwin leod. cow less $36 \mathrm{~m} l \mathrm{l}$ virgin polyethyleno di electric. No. 20 stronded (7.28) copper conductors. Withstonds weother. Shpg. $w .2$ lbs. per 100 ft
214-056.50 - 50 f1. Coil Net 1.26 214-056.75 - 75 if. Coil Net 171 $214-056-100-100 \mathrm{ff}$. Coil Net 2.12 214-056-Over 100 \%
per 100 ft .
2.12
(B) 214-271 300 ohm oir spoced fubu. tor. Low loss on long leads-ideot for UHF. Shpg. wl., 3 lbs. per 100 ft .

## NEW!

## Bolderow

## BELDEN PERMOHM

 300 OHM LEAD IN
## - encapsulated: less loss

- constant impedance


## - impervious to weather

The loiest development in 300 OHM iwin lead. Encopsuloted in low loss cellular polythylene. Delivers o strong signol on all chonnels VHF or UHF. must for color T.V. 2 Conductor $=22$ ( $7 \times 301$ stronded copper weld conductors. Shps. $w t .{ }^{4} \mathrm{tbs}$. per $100^{\circ}$
elden 8285
den 8285
per 100 ft
per fool . 07

## BELDEN TWIN LEAD 8225

For TV and FM ontennas. Low-loss poly thylene insulation. One leed finned, on bore. Stronded No. 20 (7r28).
Shag. Wi. 100 fl .2 lbs
8225.50 - 50 f. Coil Nel 1.16 6225-75 - 75 ft . Coil Nol 1.56 8225-100-100 ft. Coil Net 1.92 8225 -Over 100 ft - -per 100 ft . 1.92

## BELDEN 8230

"Weldohm" copper cooted steel wire Polyethylene insulation. Almost twice os trong or ploin copper. Perfect for long uns. Stronded No. 20 (7n28).
Shpg. Wi. 100 ff .2 lbs .
8230-50 - 50 f1. Coil
Net 1.23
$8230-75-75$ \%. Coil
Net 1.70
8230-100-100 1t. Coil
Nel 13
8230 -Over 100 ft .-per 100 ft 213
Type 8235. Low.loss 300 ohm line for UHF or VHF TV ontennos. Resists onidotion ond sunt mode with $100 \%$ virgin polyethylene web. 20 gouge (7.28) stronded Woldohm wire; copper with steel core for mosimum strengih. Shpg wt $100 \mathrm{fl} ., 5 \mathrm{lbs}$.
8235-100 ff. Coil
Net 4.80
8235 -Over 100 H .-per 100 f . 4.20
Page 177

## SPECIAL VALUES FOR SERVICEMEN AND EXPERIMENTERS



JIFFI-LITE
PERFECT ON-OFF INOICATOR

CAN BE USEO IN HI-FI EQUIPMENT, TV AROUND THE HAM SHACK, INDUSTRIAL EQUIPMENT-ANYWHERE
MOUNTS IN AN INSTANT

- operates on 80.160 Volts

Pilat light mounts through any $1 / \mathrm{m}^{\prime \prime}$ hole quickly ond simply. Electrical installation is easy and non-technical. diffi.the comes complete with 1 wo $41 / 3^{\prime \prime}$ insuloted leads speed-nut mount and is housed in durable plastic case. Shpg. wh
MS. 695 Red MS.696 Amber

Nel .46

TEATITE SOCKET tonder SOC locket lor Nickel-0ioted steel saddele tres. mounting plote with suniversol centers. With retainer ring shpg" Sp. Wp .

WESTINGHOUSE 417A KLYSTRON

### 1.75

Covers frequency isnge of 2650 ro 33 Con take up to 75 watts input with forced sir cooling. Frequency adiustable by means of screw (coarse) and knob (fine). Ratings: Beam $v=1000$ af 40 mo . R.F. Power $=400$, Filement is 6.3 V . at 3 omp. Reflector voltog -250 . Shpg. Wi. 3 lbs.
Sp-13-In lols of 3, eech NET 1.75 singly, esch NE 1.75
 Contains 50 popular sizes. A handy assartment for any $\mathrm{K} /-10$, single, each


TAPE
SPLICER WITH WAIST-TYPE SPLICE QUANTITY LIMITED! 98 Over 70\% off! Here's a terrific voluel The famous RCA Aurosplicer cuts a diagonal flap joint in the lope and trims the splicing
lape and tape edges with an indented trim cut. The slight lape and tape edges with an indented trim cut. The slight
"waists" formed prevent adhesive from contacting re. "waists" formed prevent adhesive from contacting recorder mochonism and prevent laver-fo-laver adhesion. No more "wow" "flufter". or erratic performance due to
adhesive deposited on tope guides, etc. Consists of o lape alignment guide with self-odhesive bock for fostening to any surface, cutting unit with diagonal cutter on one side and waist-lype cutters on other, and pratective cover for blodes. Shpg. w1.. 6 oz.
$\$ P .144$


SOCKET KIT
KIT OF 20
A highly usable ki al popular types. Selected to give you o fine value ShDg. wh. 2 lbs.
KI-48 Nel 85

## VIBRATOR TEST ADAPTER - USE WITH ANY TUBE TESTER IESTS 3 AND 4 P I2VVIBRATORS Quick, simple check for all standard and 12 voll vibralors. Shaws instontly it vibrator is working or defective. Indicates open op sticking contacts and starting voltage. Sturdy metallic body. $3 \%{ }^{3} \mathrm{H}$ $1.9 / 16^{\circ} \mathrm{w}^{\prime} \mathrm{x} 1.9 / 16^{\prime \prime} \mathrm{D}$. Shipping MS-394 <br> 



## FAHNESTOCK CLIPS

A fine assorimen of rolary switches-for the set builders, omoteurs and experimenters. Ideal for many circuit arrangements, Shpg. wi. 2 lbs
$\mathrm{KI}-19$
K1-19
Net .99

## of $\Rightarrow$. $\lambda$.

## (1)

 Brass clips that assure good electrical contact withoutiniury to wire. $\%$ wide except. which are $5 / 16$. Shpg.

| Mox. | Mig. | 10 | 100 |
| :--- | :--- | :--- | :--- |
| Wire | Hole | for | for |
| No. 10 | No. 8 | .11 | 1.00 |
| No. 10 | No. 8 | .18 | 1.60 |
| No. 10 | No. 8 | .84 | 7.50 |
| No. 14 | No. 6 | .10 | .90 |

INSULATED RESISTOR KIT 100 Pieces.RMA Color Coded Regular List Price 15.10 Do not confuse ith non-insu lated lorsign maltes, etc.. offored by othert. Contains carctully colected assortment of 100 in.

## stoct Mo.

 speciat:$\$ 159$ sulatad resistors. Standard RMA color code. Included are $70-2$
$1 / 2$ watt: $20-1$ wat and $10-2$ Watt resistors. Shpq. Wi. 3 lbs. KI-11
 STOCK UP ON THIS
TERRIFIC CONDENSER VALUE! Kit of 10 oluminum con. Twist prong, plug-in ond
screw neck electrolyties - Confains single, duol ond priale section units in ossorted volues ond volioges. Regutar value $\$ 15.00$. All 10 cost you less thon the normat price of iust two if bought regutorly. Quanti. fies ore limited - suggest vou stock up now, as of This iemortably low price they will go tas K1.15 1500 Value for anty

KIT OF 10 EEECTROLYIICS QUANTITY LIMITED

## - Guaranteed

## - Brand New



YC-11, Meg. AUOIO TAPE 5hpg. Wi.
Lof of 10 Eorh

## Lafayette SPECIAL HI-FI AUDIO METERS

## STEREO AUDIO ANALYST SINGLE NEEDLE-DUAL CHANNEL VU BALANCE METER one of the most versatile instruments ever offered the HI-FI ENTHUSIAST

- unique two coil galvanometer type precision meter movement - seven ranges of meter sensitivity - effort. Less balancing of stereo systems - provision for use as vu meter and tape recorder level indicator - maximum METER SENSITIVITY 120 vo


#### Abstract

The TM-66 provides the solution to oll stereo baloncing problems. This unique precision meler movement ulitizes problems. This unique precision meler movement utilizes 2 separote colls sel in o single magnetic field. Eoch stereo channel feeds o separate coll through o full wove bridge reclifier. When both signols ore eaval and balanced the nesultant deftection on the scale will measure 0 . Unlike pesultant deffection on the scale will measure 0 . Unlike cenventional stereo indicotors hovings two unrelated move. conventional stereo indicators hovings two unrelated move: ments, colibration of one meter ogainst the other (channel A vs. chonnel B) is unnocestory. Since the two seporate colls interact within o single magnotic field, the single needle movement octs upan chonnel $A$ and channet 8 simultaneously, outomatically mointaining the unit in constont calibration. Individual chonnels moy be meosured by means of the iwo slide switches. An extremely stoble


meter action and protection from peok volloges is provided by speciol domping metwerks. Since the unit is in confinuous calibration the need for individual range controls are elliminoted. The single seven stop range contral serves for both channels and focllitoles tho use of the moter with all amplifier power levels. By properly positioning this control the movements moy be used os VU meters when ferminated across the 800 .ohm lood. The scales are call. brated in "Volume Units". Sensitivity is 1.2 volls, for 0 vu or 100 percent indicotion. The metol cose is finished in a rich solin golo. Overall size is $43 / 3^{\prime \prime}$. $51 / 2^{\prime \prime} \mathrm{H}$ $x 4-3 / 16^{2} \mathrm{~W}$. Shpg. wl., $3 \mathrm{l} / 2 \mathrm{lbs}$.
TM-66 Audio Anolyst
Net 11.95

## STEREO VU BALANCE METER

## - balances stereo systems two meters in one <br> - accurate tape recorder level indicator

Forever ends the problem of adequately bolancing your stereo system. Two precisely domped loudness meters mounted at oppasite ends of the meter assembly provide a continuous com. parison of speaker levels. The scales ore calibrated in Volume Unis and perceni. 2 volis forth between listening or too percent indication. instead of coninuouly runnite in one slep. The special calibroting switch ond 20 db ottenuation controls permit oxact motching of chonnels. But there are many more uses far this meter. It is the ideal recording level indicator for inexpensive stereo tope recorders, replocing the Iroublesome "mogic eyes" or neon bulbs, and giving more accurale, more reliable readings. Safeguorded against burning out by iwo internal DC blocking capociters. Greater than 8,000 ahm Impedance permits connecting ta output circuits without loading. The entive unit is housed in an attroctive phostic case $\mathbf{3 "}^{\prime \prime} \times 1 \mathrm{~K}^{\prime \prime} \times 5 \% \mathrm{~m}^{\prime \prime}$. Shpe. Wt., 21/2 lbs.
TM. 40 STEREO BALANCE METER
Net 8.95

## CTEW <br> AUDIO OUTPUT VU LEVEL METER <br> A level meter for monoural systems, this unit is calibroted in

 Volume Units ond percenteges in occordance with standard VU meter proctice. Precise damping enables awick and occuoudio sianals. rate indication of the overage level of all non-sinusoidal a 20 db altenvation conirol. Thir meler hor counced for occurate level contral of home hifi sys. enough not loms lood mos sircullifier feeds a occurate recording level indicatos to relace the clumsy ""magic-eyes" and neen bulbs af tane accurore recis Housed in a compact plostic caser" $4^{\prime \prime} \times 2-3 / 16^{\prime \prime} \times 1-3 / 8^{\prime \prime}$. Shpg. wt., 2 lbs. TM-20-AUDIO OUTPUT LEVEL METER
## NEW! POCKET AC-DC VOM

## - EXTREMELY COMPACT, MEASURES ONLY $37 / 8^{\prime \prime} \times 21 / 8^{\prime \prime} \times 1$ ". WEIGHS 5 OZS. • 1,000 OHMS PER VOLT SENSITIVITY - COMPLETELY WIRED (NOT A KIT) - $1 \%$ PRECISION RESISTORS - READS 0-1000 VOLTS AC-DC 0100K?, 0-150 MA

Here's the best hest equipment buy in America. Lofayelte's new, pockel multitester features on unbealoble combination of small shysical size, and a wide selection of useful conges. It can be used for trouble-shooting any type of electranic sircuirs or lecirical applionces such as irons, lamps. radios, telovision, hi-fi equipment etc. It is olso useful for testing complex electrical circuits, such as those found in automobiles, and oround the ham shock. Extreme portobility ollows unllmited usage elther af home or in the field.

1000 ohmis per voll sensitivity, and $1 \%$ preci-
sion resistor components essure accurate, precise readings. Operation is extremely easy, simply plug the leads into the desired scale, and you are ready to go, no switching or fidgeting required. Ronges Volis; 0.15 .150 .1000 AC and DC. Ohms, 0.1000 K MA; 0.150 . The VOM comes campletely wired and tested, and is enclosed in durable plastic case. All accessories including bottery and rubber insulated, color coded, fexible test leads ore supplied. Shpe, wi., 1 lb.
TE. 13 AC POCKET VOM
Not 5.45

#  <br> <br> NEW MINIATURE HIGH SENSITIVITY MULTITESTER <br> <br> NEW MINIATURE HIGH SENSITIVITY MULTITESTER <br> ONLY 

### 17.50

- 23 RANGES - $38 \mu A$ MOVEMENT
- COMPLETELY WIRED
- $20,000 \Omega / \mathrm{V}$ DC SENSITIVITY
- 1\% RESISTORS
- WEIGHS ONLY 10 oz.
- 10,000 $3 / \mathrm{V}$ AC SENSITIVITY

A terrific borgoin in on oll-round extro sensitive multimeter. Here is the ideol oll-purpose multitenter for trouble shooting onything electricol or electronis - con be used lor repoiring outamobite wiring, checking ardinary house hold oppliances, such as irons. heoters, and motors roublashooting complez electronis equipment in the home, in the shop or in the field. Ideal for TV sefs, hame rodios, high-fidelity sels, omateur gear, commercial camis required. This is a completely wired precision instrument NOT A KIT. Uses a sensitive, rugged 38 microomper osic meter, d'Arsonal movement with lemelled bear osis A kier. O dirsonval movemon fiom its lorge bear nes pravi," easr, occul moversion riom lis lors clea
 rop-noik " $4 \%^{\sim}$ " $11 /{ }^{\prime \prime}$ only $4 \%^{*}$ * $21 / /^{*}$. $11_{4}$ - fits into pocket without bulg in, whout welonng down, the
and erodicating of switch morkings, profecting your meter ond preserving ifs appearance. Single selector switch with positive detents and clearly morked postifions permits onehonded operation. Recessed, break-proof zero-ohms knob permils eosy adjustment, yet connot be braken even under rough hondling

Hos 23 ronges of the unusually high sensitivities of 20,000 ohms per voll $D C, 10,000$ ohms per voll $A C$ : DC Volts. 0-5-25-100-500-1000; AC Volts, 0-5.25-100-500-1000; OHMS; 0 - $6 K-600 \mathrm{~K}-6$ Meg- 60 Meg : DC MILIIAMPERES, D. 05 ( 50 microamps) -5-50-500: DECIBELS, -20 to +64 in 5 ranges

Truly a superb instrument for any applicotion. Camplete with 1.5 volt and 15 valt bolteries, and vinyl Insulated Aenible test leods. Shpg. wh. 1 lb
AR-660 MINIATURE POCKET VOM
Net 17.50


## A LAFAYETIE SPECLAL TUBE TESTER!

- MOST ADVANCID ENGINEERING TO FIT SERYICEMAN'S

26.95


## COMPLETELY WIRED

## NOT A KIT

A new streamlined tube tester with a realistic appraech to the problem of quickly testing the ever facreasing number of tube types. If incorporates new and advanced engineering features and all at dew price of about half of oven the mast ordinary pube tester. Read these Specifications.
"FREE POINT" ELEMENT SELECTOR SWITCH. "FREE POINT" ELEMENT SELECTOR SWITCH. ING: Nowly designed, If reduces possibilliy of obsolaceence to aminimum because any pin may be used as filament pin and valtage applied between if and any other pin, or oven the top cap. minating in more than 1 pin are truly tested terminating in more than I pin are truly tested. MULTIPURPOSE TUBES: Special isolating circuit sllow each section of multi-purpose tubes to be tested individually as if it were in a separate envelape.
SHORTS AND LEAKAGES: SUperiensitive method checks shorts and bakages up to 5 megohm between any and ALL eloments; continulty between various sections individually indieated.
SIMPLICITY: Fast simple operation. The 4 position last action sndp switches are all numbered in oxact accord with RMA stendards. Thus when testing element terminafing in pin No. 7 of a tubo -you use button No. 7. You cen't insert a tube in the wrong secket-there's one for each type of tube base.
TUBE TYPES: Tesk all actal, lactal, 7 pin minlatures. 9 pin miniatures as well as the new noval and Sub. Minar types. Old type sockets used for testing obsolate typos-that you rerely see any-more-have been ofiminaled.
SIZE: A practical size to carry with you as well as for use in the shop-only $1 / 2=6 \% \times 21 / 4^{m}$ deep. Shpg. Wís lbs
ODEL TO-S5-complefe with
cerrying case and instructions.
26.95

## FILAMENT CONTINUITY TUBE CHECKER

Small and compoct os cigorette bozes. Quickly checks filoment continuity in o matter of seconds. Ideol for the servicemon or the fectnicion working in the field. Tests filaments of radio, iv pic. lure tubes. Also con bo used to test many other electricol devices and line cords, fuser, lamps and bulbs. Has sockets for TV picture tube and loctal ostol, 9-pin, os well os 7 -pin sockels. Provided with two lest leods. Grey hommerton finish. Size: $4 \times 3 \times 1 \mathrm{ym} \mathrm{m}^{\mathrm{m}}$. Shpg. w 1.12 ar . TE-11 .Net 2.75

CORNELL-DUBILLER "HANDICHECK"
"IN-THE-CIRCUIT"
 CAPACITOR CHECKER MODEL BF-90
37.95

An instrument designed to provide the TV and Rodio serviceman o means to determint the cendition of copo. citors ropidly and conveniently without removing them from a circuit. Checks open, short, or intermitient condition by circuits incorporoting on oleciran-roy indicatar tube. Copocitars from 30 mmfd to 2000 mfd moy be chected. A recessed hondle is pravided. Sise: $5 \% \times 7 \times$ $10^{\prime \prime}$. Shpg. wl., 8 fbs.
TE. 628
5.00 Down

Nel 37.95

TEST-O-MATIC TUBE and H. V. TESTER

Complete filoment, continuity and high valtage tester. Bollery operoted, has self confoined floshlight, 7 and 9 pin minioture pin straighteners, plus focilities for continuity lests of ociol, 7 and 9 pin tubes, bulbs, fuses, picture fubes, and enternal equipment. High volioge pester Only 6 " high, $3 \%$ " wide. Shps- wi., 1 lt.
TE-629.


# SENSATIONAL VALUES IN MULTITESTERS 

## NEW! 10,000 OHMS PER VOLT MULTITESTER

## Outperforms Instruments Many Times its Size

- EXTRA LARGE $31 / 2^{\prime \prime}$ METER FACE
- COMPLETELY WIRED (NOT A KIT)
- ALl ACCESSORIES INCLUDED


## FULL SCALE RANGES

DC VOLTS; 0-6; 0.30: $0.120,0.600 ; 0.1200 ;$ AC VOLTS: on on instrument of this size. Single easy-to-use ronge
 $0.120 \mu \mathrm{~A}: 0.3 \mathrm{M}: 0.300 \mathrm{M}$ RESISTANCE: $0.30 \mathrm{~K}_{i}{ }^{0} 0.3 \mathrm{MEG}$

 $0.120 ; 0.600 ; 0.1200$. Unbelievoble Borgoia. Latoyerte's now multitester is 0 Unbelievoble borgoie. ond tested instrument lnol o kitl. il con be convenientry corriod in the Docket, and footures II con be convenionty unusuolly sensitive 10,000 ons largast meter ever ploced TE. 14 engineer olike. Cose and Donel ares 120 volts AC, second lite. First capocity ronge requires and flexible leods or ronge requires 6 volts AC. Probes and fiexible $1 / 1 / \mathrm{Com}$. Com plostic coaled and color coded. Size 4 l . $1 \mathrm{l} / \mathrm{z} \mathrm{lbs}$ TE-10
$1 \%$ precision resistoes, ond the largest meler ever plose TE. 14

## 895



## NEW! 20,000 OHMS PER VOLT MULTITESTER

- 20,000 OHMS PER VOLT DC-10,000 OHMS PER VOLT AC
- 40 MICROAMPERE $3^{\prime \prime}$ D'ARSONVAL METER MOVEMENT
- HIGH INPUT RESISTANCE ON ALL DC AND AC RANGES

> A new multitester with extro luxury feofures, at a down to.earth price. Uses a lorge $3^{\prime \prime}$ meter with fwo color scales tur easy visibility. The 10 micro-ampere meter movement Deimits o high input resistonce on all ronges: 20,000 ohms per voll on OC; 10,000 ohms per voll on AC. This permits the meosuring of voltoges without unduly looding the circuit, thus preserving occurocy of reodings. $1 \%$ ioletonce resistors further help in this respect. A single knob selector switch greorly simpliffes operation.

Besides the oxtreme senslfivity and supierior versotility of this instrument, it feotures ranges not found on other competitively priced VOm's. Measures 0.10.50.250-500.1000 $D C$ volis, $0.10 .50 .250-500.1000 \mathrm{AC}$ volts 0.10 K .100 K . me3 ohms, 0.500 microomperos, 0.10 .250 mitliamperes -20 10 +36 decibels. PLUS two spocial ronses 0.5000 henrys inductonte ond 250 mml 10 . 02 mld coosocity reol bargoinl Size $3 \%^{\prime \prime} \times 5 \%{ }^{\prime \prime \prime} \times 1 \% \%^{\prime}$. Shpg. Wi., $3^{3}$ ibs. MODEL RW-60 Mullimetor

## NEW HIGH SENSITIVITY MULTITESTER

now high-avolity, low-priced multiester. Its light Aeighe motess it a perfect portoble instrument hor lech. sictons, servicemen, olc. Rugsed dession wilh sionds hord ferestes large eosy-to-recd meler ond semitive mictioamp meter mevement. 1\% toleronne resistors pred microomp melersuasy of meosurements. Housod in rupged ide exile cose. Single knob selecior ond cieorly morked bokellte case. disintment providod.
odiustment provided. 20,000 ohms/volt DC, and 10,000 Feolures sensitivity of $0, C$ volss $0.0 .6,0.6,0.30,0.120$, $0.013 / v 01$ AC. Ronges- 0.6000 volrs. AC volist $0.6,0.30$ $0.600,0.1200,0.300$ volis. Resistonce: RXI , $\mathrm{ex100}$
 RXIK, Rx10k. oc =urrent: $10.06,0.774$ v). Copocily, Decitels, -20 to + tr 17 dotput ronges: $0.8,0.30$, 0001 .01.01.003 mid.
$0.120,0.800,0.1230$ volls. heovy duty rest probes and
 TE. 12

- 20,000 OHMS PER VOLT DC
- 10,000 OHMS PER VOLT AC
- RESISTANCE RANGE $0-60$ MEGOHMS
- 40 «A MOVEMENT
- $1 \%$ RESISTORS


## 1795

#  

- HIGH QUALITY D'ARSONVAL MOVEMENTS - accuracr $2 \%$ of Full scale
- $3 \%$ "SO., ONLY $1-5 / 16^{\prime \prime}$ OVERALL BEHIND PANEL - BAKELITE CASES - JEWELLED BEARINGS

Migh auolity, precision built meters with better thon $2 \%$ of full scole occurocy. $31 /{ }^{\prime \prime}$ squore, $2-5: 16^{\prime \prime}$ " $11 / 6^{\prime \prime}$ diol cluding terminals. Require $2.9 / 16^{\circ \prime}$ diometer mounting cluding terminals. Require ${ }^{1 / 4}$ serew erminals plus solder lugs. 4 threoded mounting sluds in corners. Zero odiust screw. Shpg. wt. mountin.

## ILCUMINATEO SCAEE VU METER

CLEAR PIASTIC FRONT METER - Stondord 3900 ohm "B. scole volume indicator colibroted ond domped in accordance with stondord VU meter practice. Upper scole reads $0.100 \%$ modulation, lower scole reods -20 1o
vu 10 VU corresponds 10 V $100 \%$. Accurate to +0.2 VU from 35.1000 cps . -0.5 VU from $30-15,000 \mathrm{cps}$. With suddeniy opolied sine wave signat. meter will reach $9 \% \%$ correct reoding is $1101 \% \%$. A root-meon-squore instivment with full wove bridge rectifier. Includes built-in 6.8 voll bulb. Complete with instructions.
TM-80
Nel 7.50
O-50 DC MICROAMMETER
$0-50$ DC MICROAMMETER - Highly domped, sensitive movement, colibroled in 50 one-misroomp lineor scole divisions. Cushioned ceromic bumpers prolect pointer
ogainst overtrovel ond domage with moderote overloods Red pointer

Ne1 7.50

## TM-70 <br> 0.1 DC MILLIAMETER

O-I DC MILIIAMMETER - Sensitive, quict-orting bosic covement. Linear
TM-60
Net 3.95
0-150 AC VOLTMETER
0.150 AC VOLTMETER - Full-wove bridge reclifier irpe, 1000 ohms per volt. With precision corbon-film multiplier resistor. 5 volts per division, lineor scole. TM. 50

Net 3.95

## METER RECTIFIER

 linear choracteristics. This full weve rectifier is specially designed os a universol replocement for oll modern multimelers, such os Lafayelte's miniature V.O.M.s. Simple to instoll, mounts, with single serew. long terminols focilitate RE-22Net .45

## CTEW Miniature PANEL METERS

- D'ARSONVAL MOVEMENTS
- bakelite cases - jewelled bearings
- ONLY 1-9/16" SO. FACES, $11 / "^{" ~ O V E R A L L}$ BEHIND PANEL - ACCURACY $2 \%$ OF FULL SCALE
UNUSUALIY LOW PRICED FOR SUCH EXCEIIENI OUAI. ITY Ruggedy builf minioture ponel meters, with encet. eni occurocy. Iy diol foces, with silvered diols and block numerols ond pointers. Accurocy $2 \%$ of full scole $.916^{\prime \prime}$ squore fronts, $11 / 8^{\prime \prime}$ overoll froni-fo-boch, with $1 / 0^{" *}$ behind ponel including $1 / 4^{\text {" }}$ terminols. Require $11 / 2$ diometer round hole in ponel: 4 corner holes for mounting. with $11 / a^{"}$ centers. Terminol polority on DC models clearly morked. Scew terminols. Zero odiustment screw on front of ponel. Clear optical aloss fronts. Shps. wf . 8 oz
VU METER VU METER
30 YU ond $0.100 \%$, colibroted in stano ord - 20 to 10 VU and $0-100 \%$ ronges. Uses precision Damped in occordonce with standord VU meter require ments. Reference lavel 1 mw in 600 ohm line. $10,000 \mathrm{ohms}$ ments. Reference level mw in 000 om line. 10,000 ohms infernal resistonce. 0 is 1.225 volis sine wove AC ood Mor be used with T- 0 od ottenuotor $0.100 \%$ scole used to indico'e percent use of fronsmitter oulput TM-10


## "S" METER

"S" METER - Stondord "hom" signol strength indicator Colibroted in 5 units from $0-9$. wh the scole termicole colibrotions of 0.5 and $0-10$ in linear scole divisions. A "must" for radio amateurs for conversion of any communicotions receiver with AVC oction to glve calibroted signal strengih indicotions. Use of " 5 " meter fully described in 1958 "Rodio Amoteur's Mandbook" (Loloyette slock No. 8K-10001, poges $106 \cdot 107$. TM-11

| OC MrLLIAMMETERS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| TM-400 | 0.1 DC | MILIIAMPERES | Net | 3.75 |
| TM-401 | 0.5 DC | MILIAMPERES | Net | 3.75 |
| TM-402 | 0.50 OC | MIILIAMPERES | Net | 3.75 |
| 7M-403 | 0.100 DC | MILLIAMPERES | Nel | 3.75 |
| OC MICROAMMETER |  |  |  |  |
| TM-200 | 0.30 DC | MICROAMPERES | Net | 4.95 |
| AMMETERS |  |  |  |  |
| TMM-510 | 50.0.50 DC | AMPERES | Net | 3.95 |
| TM-511 | $0-10$ DC | AMPERES | Net | 3.95 |
| R. F. AMMETER |  |  |  |  |
| TM. 500 | 0.5 RF | AMPERES | Net | 3.95 |
| VOLTMETERS |  |  |  |  |
| TM-100 | U.15 DC | Votrs | Nol | 3.75 |
| TM-101 | 0.200 DC | votis | Nel | 3.75 |
| TM-300 | 0.150 AC | voits | Nel | 3.75 |
| TM-301 | 0.300 AC | volis | Net | 3.75 |





Page 182

## EDGE-WISE PANEL METERS

- $2 \%$ FULL SCALE ACCURACY
- PRECISION D'ARSONVAL MOVEMENTS
- FRONT PANEL AREA ONLY $31 / a \times 1$

For use where panel space is limited. Requires oboul $1 / 3$ the panel area of conventional $21 / \mathbf{r}^{\prime \prime}$ meters. Light weight; only 10 ori. Hos precision D'Arsonvol meters with $2 \%$ or better full scole occurocy. Front ponel dimension is
3 Km m 1 . Overoll depth is $3 \mathrm{~V} /{ }^{\text {" }}$ behind ponel including terminals. Hos stud-type solder lerminols and zero odiust. ment screw. Shpg. Wt., $3 / 4 \mathrm{lbs}$.

## VU METER

VU MEIER-Colibrated and domped in accordonce with standard VU meter proctice. Upper scale reads - 20 to +3 VU. Lower icole reods $0.100 \%$ modulation. Accu. rote to +0.5 VU from $30.15,000 \mathrm{cps}$. TM-23

Nol 5.95

## 0-150 AC VOLTMETER

0.150 AC VOLTMETER-Full-wave bridge rectifier type 1000 ohms per volt. 5 valts per division, llineor scole. TM. 22

Net 5.69

## 0. 1 DC MILLIAMMETER

0.1 OC MILIIAMMETER-CALIBRAIED from 0.1 mo if 0.02 ma. divisions. Blach scale, red pointer. TM. 21

MINIATURE FM \& AM

## TUNING METER

## CTEW

- galvanometer movement - SO «A SENSITIVITY - FRONT PANEL AREA ONIY $\% \times \%$

Minioture FM and AM tuning meters con be cosily in. stolled on ony luners. The remorkoble sensitivity enobles you to tune in stations with surprising ease. Golvanometer movement of the indicator assures complete occuracy. Despite its miniolure size, the funing meter is ruggedly built. Current sensitivity $\pm 50$ misreompt OC. Internol resistance about 430 ohms. Insulation resistanse betweeh cose and terminols: 20 megohms $/ 500 \mathrm{~V}$. Solder lugs are provided of the back. Plostic cose cover. Complete with instruction sheets. Sire: $\% \times 3 \times 1^{\prime \prime}$. Shog. Wh.. 4 ozs.

## FM TUNING METER

FM TUNING METER. Con be connected between radio detector ond AF amplifier. The indicotor will rest in the conter when stotion is tuned in TM-13

Net 2.95

## AM TUNING METER

AM TUNING METER. Con be connected info the second IF stoge of AM or tronsistor rodio. Groduoted scole with maximum deflection of pointer indicoting station being Tuned in.
2.95


LAFAYETTE'S MONEY BACK GUARANTEE IS YOUR ASSURANCE OF SATISFACTION

## PANEL METERS TESTERS AND METER RECTIFIERS


glass fiont

clear plastic Type aso
class HONT Prpe 550

## SHURITE PANEL METERS

Esonomy model ponel meters with fast response, encellent forque-to-weigh ratio, lone scales, and occurocy well within stondord $5 \%$. AC ore doublevone repulsion type with feweled beoring. DC ore polorized-vone solenoid type or moving mognet construction. Require © $2-5 / 32$, hole. Histonce. Averoge Shpg. wt., 2 lbs. CIEAR PLASTIC. Atroctive plostic meters with $2.17 / 32^{\prime \prime} \mathrm{W} \times 2.5 / 16^{\prime \prime} \mathrm{H}$ crystal polystyren front for exceptional visl. bility and protection. Frosted finish interior GIASS.FRONT. Sturdy metol cose gloss-front meters. Round model is clamp-maunted; square madel is flonge.mounted

## ATTENTION INDUSTRIAL USERS!

Special Quantity Discounts on Shurite Meters on This Page 10-24 DEDUCT 10\%

25-49 DEDUCT $15 \%$

| GbASS | FRONT LESS | ZERO ADJUST |  | GLASS FRONT WITH ZERO ADJUST |  |  | PLASIIC P |  | TYPE 850 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Range | $\begin{gathered} \text { Type } \\ \text { sso } \end{gathered}$ | $\begin{aligned} & \text { Type } \\ & \text { Oso } \end{aligned}$ | Net | Type 550 | Trpe 950 | Net | Less Zero Adius: | Net | With <br> Zero Adiust | Net |
|  |  |  |  | DC MIL | MMETER |  |  |  |  |  |
| 0.1 |  |  |  | MT-100 | MT-114 | 3.43 |  |  | MT-128 | 3.63 |
| $0.34$ |  |  |  | MT-101 | MT-I is | 3.09 |  |  | MT. 129 | 3.28 |
| 0.3 | MT-102 | MT-116 | 2.55 | MT-293 | MT-305 | 2.90 |  |  |  |  |
| 0.5 | MT-103 | MT-117 | 2.30 | MT-294 | MT-306 | 2.65 | MT. 130 | 2.50 | MT-317 | 2.85 |
| 0.10 | MT-104 | MT-118 | 2.16 | MT-295 | MT. 307 | 2.51 | MT-131 | 2.35 | MT-318 | 2.70 |
| 0.15 | MT-105 | MT. 119 | 1.86 | MT. 296 | MT. 308 | 2.21 | Mr. 132 | 2.06 | MT. 319 | 2.41 |
| 0.25 | Mr. 106 | M1. 120 | 1.81 | MT-297 | MT-309 | 2.16 | MT-133 | 2.01 | MT. 320 | 2.36 |
| $0.50$ | MT. 107 | MT-121 | 1.81 | MT-298 | MT-310 | 2.16 | MT-134 | 2.01 | MT. 321 | 2.36 |
| $0.100$ | MT-108 | MT-122 | 1.81 | MT. 299 | MT-311 | 2.16 | MT. 135 | 2.01 | M1-322 | 2.36 |
| 0.150 | MT. 109 | MT-123 | 1.81 | MT-300 | MT-312 | 2.16 | MT-136 | 2.01 | MT-323 | 2.36 |
| 0.200 0.300 | MT-110 | MT-124 | 1.81 | MT.301 | MT-313 | 2.16 | MT-137 | 2.01 | MT-324 | 2.36 |
| $\begin{aligned} & 0.300 \\ & 0.400 \end{aligned}$ | MT-111 | MT- 125 $M T .126$ | 1.81 1.81 | MT. 302 | MT-314 | 2.15 | MT-138 | 2.01 | MT-325 | 2.36 |
| $\begin{aligned} & 0.400 \\ & 0.500 \end{aligned}$ | MP- 112 M1. 113 | MT-126 | 1.81 | MT. 303 | MT-315 | 2.16 | MT-139 | 2.01 | MT-326 | 2.36 |
| 0.500 | M1. 113 | MT. 127 | 1.81 | MT. 304 | MT-316 | 2.16 | MT. 140 | 2.01 | MT-327 | 2.36 |
| 0-1 | MT. 141 | MT. 156 | 1.81 | DC AMMETERS |  | 2.16 |  |  |  |  |
| 0.3 | M1-142 | MT. 157 | 1.81 | MT. 329 | MT. 344 | 2.16 | MT-171 | 2.01 | MT-358 | 2.36 |
| 0.5 | MT-143 | MT. 158 | 1.81 | MT. 330 | MT.345 | 2.16 | MT-172 | 2.01 | M1-359 | 2.36 |
| 0.8 | MT. 144 | MT. 159 | 1.81 | MT-331 | MT-346 | 2.16 |  |  |  |  |
| 0.10 | MP-145 | MT. 160 | 1.81 | MT-332 | MT-347 | 2.16 | MT-173 | 2.01 | M1. 360 | 2.36 |
| 0.15 | MT-146 | MT. 161 | 1.81 | MT-333 | MT-348 | 2.16 | MT-174 | 2.01 | M1-361 | 2.36 |
| 0.25 | MT-147 | MT-162 | 2.25 | MT-334 | MT. 349 | 2.60 | Mr-17S | 2.45 | MT-362 | 2.80 |
| 0.50 | MT-148 | MT. 163 | 2.45 | MT-335 | MT-350 | 2.80 | MT-176 | 2.65 | M1.363 | 3.00 |
| 3-0.3 | MT-149 | MT-164 | 2.01 | MT-336 | MT-351 | 2.36 |  |  |  |  |
| 5-0.5 | MT-150 | MT. 165 | 2.01 | MT-337 | MT-352 | $2.36$ |  |  |  |  |
| 6.0.6 | MT-151 | MT-166 | 2.01 | MT-338 | MT-353 | 2.36 |  |  |  |  |
| 10-0.10 | MT-152 | MT-167 | 2.25 | MT-339 | MT-354 | 2.60 | MT. 177 | 2.45 | $\text { MT- } 364$ |  |
| 20.0.20 | MT. 153 | $\text { MT- } 168$ | 2.30 | MT-340 | MT-355 | 2.65 | MT-178 | 2.50 | MT-365 | 2.85 |
| 30-0.30 | MT-154 | MT. 169 | 2.45 | MT-341 | M1.356 | 2.80 |  |  |  |  |
| 50-0.50 | MT-155 | MT-170 | 2.55 | MT-342 | M1.357 | 2.90 |  |  |  |  |
|  |  |  |  | - DC VOLIMETERS |  |  |  |  |  |  |
| 0.1 |  | $\text { MT- } 200$ | 1.81 | MT. 366 | MT-387 |  |  |  |  |  |
| $0-3$ | $\text { MT. } 180$ | $M T-201$ | 1.81 | MT-367 | MT-388 | $2.16$ | MT-221 | 2.01 | MT-409 | 2.36 |
| $\begin{aligned} & 3.0-3 \\ & 0.65 \end{aligned}$ | MT-181 <br> MT-182 | $\text { MT- } 202$ | 1.81 | MT-368 | MT-389 | 2.16 |  |  |  |  |
| $\begin{aligned} & 0.5 \\ & 0.6 \end{aligned}$ | MT-182 $M T-183$ | MT. 203 MT. 204 | 1.81 1.81 | MT-369 MT-370 | MT-390 MT-391 | 2.16 2.16 | MT-222 | 2.01 | MT. 410 | 2.36 |
| - 0.8 | MT-183 | MT-205 | 1.81 | MT-370 MT. 371 | MT-391 MT-392 | 2.16 2.16 |  |  |  |  |
| 0.10 | MT-185 | MT-206 | 1.81 | MT.372 | MT.393 | 2.16 | MT-224 | 2.01 | MT-411 | 2.36 2.36 |
| 0.15 | MT-186 | MT-207 | 1.81 | MT. 373 | M1-394 | 2.16 | MT-225 | 2.01 | MT-413 | 2.36 |
| -0.20 | MT-187 | MT-208 | 1.86 | M1.374 | MT. 395 | 2.21 |  |  |  |  |
| 0.25 | MT-188 | MT- 209 | 2.11 | MT-37S | MT-396 | 2.46 | MT-226 | 2.30 | MT-4 14 | 2.65 |
| 0.25H | MT-189 | MT-210 | 2.70 | M1-376 | MT-397 | 3.05 |  |  |  |  |
| 0.50 | MT. 190 | MT-211 | 2.25 | MT-377 | MT-398 | 2.00 | MT-227 | 2.45 | MT.415 | 2.80 |
| 0.50 H | MT-191 | MT-212 | 2.89 | MT-378 | MT-400 | 3.24 |  |  |  |  |
| 0.75 | MT. 192 | MT-213 | 2.25 | MT-379 | MT-401 | 2.60 |  |  |  |  |
| $0.100$ | MT-193 | MT-214 | 2.25 | MT-380 | MT.402 | 2.60 |  |  |  |  |
| $\begin{aligned} & 0-100 \mathrm{H} \\ & 0-150 \end{aligned}$ | MT-194 $\text { MT- } 195$ | MT-2is | 2.94 | MT-381 | $M T-403$ | 3.29 2.85 |  |  |  |  |
| $\begin{aligned} & 0.150 \\ & 0.150 \mathrm{H} \end{aligned}$ | $\begin{aligned} & \text { MT- } 195 \\ & \text { MT. } 196 \end{aligned}$ | $\begin{aligned} & \text { MT- } 216 \\ & \text { MT- } 217 \end{aligned}$ | 2.30 3.04 | MT-382 MT-383 | $\begin{aligned} & \text { MT. } 404 \\ & \text { MT. } 405 \end{aligned}$ | 2.65 3.39 | MT-228 | 2.50 | MT-4 16 | 2.85 |
| $0-300 \mathrm{H}$ | MT-197 | MT-218 | 3.14 | MT-384 | MT. 406 | 3.49 |  |  |  |  |
| 0.500 H | MT-198 | MT-219 | 3.38 | MT-385 | MT-407 | 3.73 |  |  |  |  |
| 0.750 H | MT-199 | MT-220 | 3.97 | MT-386 | MT-408 | 4.32 |  |  |  |  |
| $10,000 \mathrm{ahms}$ | MT-229 | MT-230 | 2.40 | RESISTANCE METERS MT-417 \| MT.418 |  | 2.75 | MT-231 | 2.60 | MT-419 | 2.95 |
| ME. 447 FLAA | GE ADAPTER | RING FOR | OUND |  |  |  |  |  |  |  |



SHURITE BATTERY TESTERS

Pocket lesters with bright ploted coses, mefal diols, and prods Sturdily buill. Test bolleries with out load. Ideal for lesting balferies used in pronsistor circuirs, model rilroods, hearing aids, portable odios te Shpo we 8 azs HEARING AID BATTERY TESTERIdeat lor checking 1.5, 15, 22.5, 30, 33, and 45 oll bolleries. MT-446

Net 3.53

|  | DC VOLTMETERS |  |
| :--- | :--- | :--- |
| RYPE | RANGE | NET |
| MT-435 | 0.5 | 2.25 |
| MT-436 | 0.7 | 2.25 |
| MT-437 | 0.50 | 2.70 |
| MT-438 | 0.2 .50 | 2.89 |
| MT-439 | 0.5 .50 | 2.89 |
| MT-440 | 0.7 .5 .90 | 3.04 |
| MT.441 | 0.2 .6 | 3.68 |
| MT-442 | 0.2 .150 | 3.77 |
|  | DCAMMETERS |  |
| TYPE | RANGE |  |
| MT-443 | 0.3 | NET |
| MT-444 | 0.15 | 2.25 |
| MT-445 | 0.40 | 2.30 |
|  |  | 2.89 |

EBY POCKET TESTER

Meosures onir $3^{m} \# 4^{*}$. $11{ }^{\prime \prime}$ this amazing unit is 8 Instruments In 1. Measures AC-DC volts from 0.1000 on law range, and 50KV on high. If's a signal trocer, condenser
tester, audio oscillotor. AGC substitution voltage supply, visual out. put moter and confinuity tester. An outsianding value. Shpg. Wi, 3 lbs. TE-626 ........................ 5.95

## PLUG-IN LINE VOLTAGE TESTER

 - JUST PLUG IN ANO READ - $90^{\circ}$ SWIVEL$\qquad$teneous reedings right ef the reseptacteinto wires, no assembly. Just plugsinfo AC recepiacle. Reads O-150Y AC$90^{\circ}$ swivel af the prongs for eesy read-ing from any position. Accurecy $5 \%$ TE. 627

Net 2.94


METER RECTIFIER
A full wave, econamical meter rec Ifiep of exceptionally linear char. acteristics. Universal replacement or all multimelers, such as lafay. seres minialure V.O.M.'s. Single RE-22

## SHURITE AC METERS

Glass fron

| Range | Type | 7 7ypa 950 | Net | $\begin{gathered} \text { Less Zere } \\ \text { Adjust } \end{gathered}$ | Not | With Zero Adjust | Net |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0.10 0.55 0.15 0.150 0.558 0.508 0.9 |  |  |  |  | $\begin{aligned} & 3.14 \\ & \text { 3:14 } \\ & 3.14 \end{aligned}$ |  | 3.49, |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | $\begin{aligned} & 3.14 \\ & 3.14 \\ & 3.72 \\ & 3.72 \\ & \hline .36 \end{aligned}$ |  | 3.49 3.49 and 4.7.7 4.71 |

CONANT METER RECTIFIERS

| INTERNAL CIRCUITS <br> Mridyer <br> Opyuneti Y H1tow Ihedy <br> 12 Britige <br> Hers blows | Copper oxide rectifiers for meters and rolay circuiss. Mox. $A C$ inpur 5 Volts, $D C$ severse voltoge 2.25 fre. quency response: Series 5000.1 MC , others 0.75 MC . Mounting: series $5006 / 32$ siud, series $160=2$ Screw. series 160 C fuse clip. All with $3^{\text {n }}$ loods. Av, ihpo. wl.. 5 ox. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | Stoch No. | Conon Type Series |  | Inf. Ne. Forward Output Circ. Tms. OC MA DC ma |  |  |  |  |
| Guarter Briblyt |  |  |  | $\begin{aligned} & \text { Net } \\ & \text { Eo. } \end{aligned}$ |
| Green Burdy | RE-28 | M | 500 |  |  |  |  | 1 | 4 | 100 | 50 | 2.06 |
|  | RE. 29 | HS | 500 | 2 | 3 | 100 | S0 | 1.53 |
|  | RE-30 | I | 500 | 3 | 3 | 100 | S0 | 1.50 |
|  | RE-31 | H | 500 | 4 | 2 | 100 | 50 | 1.18 |
| 3 | RE. 32 | B | 160 | 1 | 4 | 10 | 5 | 2.06 |
|  | RE. 33 | BHS | 180 | 2 | 3 | 10 | 5 | 1.50 |
|  | RE-34 | BT | 160 | 3 | 3 | 10 | 5 | 1.50 |
|  | RE-35 | BH | 160 | 4 | 2 | 10 | 5 | 1.18 |
|  | RE.36 | 8 C | $100 . \mathrm{C}$ | 1 | 4 | 10 | 5 | 2.06 |
|  | RE-37 | BHS.C | $160 . \mathrm{C}$ | 2 | 3 | 10 | 5 | 1.50 |

## TRIPLETT PANEL METERS

## METER SPECIFICATIONS

The nanel meler with the qualey of



## ATTENTION-INDUSTRIAL BUYERS! SPECIAL QUANTITY DISCOUNTS ON TRIPLETT METERS LOTS OF 10-24 DEDUCT 10\% LOTS OF 25-49 DEDUCT $15 \%$



## SIMPSON AND TRIPLETT PANEL METERS



## EIGD KITS AND WIRED TEST EQUIPMENT EIGD



NEW! MODEL 666K
DYNAMIC CONDUCTANCE TUBE AND TRANSISTOR TESTER
An ideal tube tester for calar and manochrame iV servising. Tests all receiving tubes, including 4, 5, 6, 7-pin., octal, loctol, miniature 7 and 9 -pin, sub-miniafure, 5, 6,
7 -oin (in-line bose) and 8 -pin (circular base) receiving tubes, transmilting and special-purpase tubes, VR, coldcothode rectifiess, mogic eye ond ballast tubes. Tests color and block-and-white TV picture tubes with occessory adaptar. Measures transistor callectar current and shaws current amplification foctor. Individual test of multisection tubes. Measures Gp, Gm and also leakage in ohms. $41 / 2^{" 2} 200 \mu 0$ D'Arsonval meler movement, in cleor
lucite cose; For 105.130 volts. $A C 50 / 00$ cos. 12 " $15^{\prime \prime}$ lucite cose; For 105.130
$\times 41 / 2{ }^{2}$. Shpg. wl., 18 lbs.
TE-ISIWX Kit 7.00 DOWN
Model 606. As obove, but foctory TE-152WX 11.00 DOWN

MODEL 625K TUBE TESTER Cothode Conductance rype of tube lester features 10 in dividual level-action switches for testing each fube element. Tests ofl sid. tubes including 9 -pin minioture, VR, mogie eye and ollor bulbs. Provides knock-aut for oddition of new socket. Illuminoted roll chart gives instont test setting. Provides 2 grid-coo connections. Tests shorts and open lements. Prolective over-lood bult also octs as fuse. $41 / 2^{\prime \prime}$ meter. All components ond instruction manual supolied complete. For 115 V 60 creles. $121 / 2$ $91 / 3 \times 41 / \mathrm{c}^{\prime \prime}$. Shpg. $w f ., 12 \mathrm{lbs}$.
TE-153 Kir S. 00 DOWN Madel 625 As obove but foctory ined 34.95 TE-154 5.00 DOWN Nociory wired ond Iested. 49.95
 Model bisck. Same os 625 K but with Counter Display Cose Shpe wi. 17 lbs
TE. 156 S.00 DOWN
Model 025C. As above, bul factor Nel 44.95

## TE-157 6.00 DOWN Nol 59.95

## MODEL 630K CATHODE RAY

 TUBE CHECKER KITEngineered for fost, easy, dependoble testing of all sizes
TV picture and oscllloscope type CR fubes right in the set or cartan. Bolanced bridge measurement of peok beam current (praportional to sereen brightness) using nean lamp as sensitive bolance indicator. Also indicotes shorted or open elements. Two test sockets for duo-decol (12-pin) and di-heptal (14-pin) fubes are supplied, each with $21 / 2 \mathrm{H}$. of coble. All camponents and instructions supplied. For 105.125 v. $50-60$ eveles. Size: $61 / 2 \equiv 91 / 2 \times$ $\mathbf{3 "}^{\text {". Shpg. WF., } 6 \text { lbs. }}$

## TE. 158

Madel 630 At above bul lactory wired and testod

## TE-159

MODEL CRA PICTURE TUBE ADAPTER
Madel CRA. Adapts \# $\$ 225$ and $\$ 066$ or similor Tube Testers for checking oll sizes of TV oicture tubes. Meo. sures cothode mission; lests lor biloment continuiny. socket, octol*plug-in connector and $4-\mathrm{ff}$. coble to permit testing fube without removal from sel. Shog. wh., 2 tbs.

## MODEL 565K MULTIMETER

Large $41 / \mathbf{z}^{\prime \prime}$ meter feotures sensitivity: $D C-20 \mathrm{~K}$ ohms $/ \mathrm{V}$.: $10-50-250-1000-5000$. DC current: $0.100 \mu \mathrm{c}$. $0.10-100$. 500 m .0 . ond 0.10 omp. Ohms: $0.2 \mathrm{~K} \cdot 200 \mathrm{~K} \cdot 20$ meg. DB: -12 to +55 in 5 ranges. Alt components and instruc tions provided. $03 / 4 \times 51 / 6=3^{\prime \prime}$. Shpg. wi., 4 lbs.
TE-161 Kit 5.00 DÓWN Net 24.95 Madel 565. As obove, but loctory wired and rested. 95 Model 555 K . Some os 565 K but with $1 \%$ resistors. TE-163 S.00 DOWN Nel 29.95 Model 555. As obove, but foctory wired and tested.
TE-164
N.00
NoWN

## MODEL 566K MULTIMETER

Large $41 / 2{ }^{\prime \prime}$ meter features: $A C / D C$ sensitivity of 1 K ohm/v. olals 38 ranges: $A C / O C /$ volts: $0.1-5-10-100-500$. $5000 \mathrm{AC} / \mathrm{DC}$. Current: $0.1-10 \mathrm{m.o} 0.0 .1 .1$ omps. Ohms $\mathrm{I}_{2}$ $0.5 \mathrm{~K}-100 \mathrm{~K} .1$ mes. $\mathrm{DB},-2010+69$ in 0 ranges. All
 Shpg. Wt., 4 lbs.
TE-165 Kit Net 14.90 Model 566. As obove, but loctory wired and lested. Ne i8.95 TE-166 Model 550 K Same as 506 K but with $1 \%$ resistor
TE-167 Nel 16.90 Madel 556 . As obove, but foctory wired and tested. 30

## MODEL 536K MULTIMETER

Outstonding value. $3^{-}$meter feotures $A C / D C$ sensifivity of 1 K ohm/w. 31 ranges - $\triangle C / O C$ volts. $0-1.5 \cdot 10 \cdot 50 \cdot 100$. 500.5000 , $A C / D C$ current 0.1 .10 mo., 0.0 .1 .1 amp . Ohms: $0.5 \mathrm{~K} \cdot 100 \mathrm{~K} .1 \mathrm{meg}$. D8 -20 to +69 in 6 ranges All components and inssructions supplied. $61 / 2 \times 33 \times$ 23/4". Shpg. wf., 2 lbs.
TE-169 Kit TE-170

Net 12.90
tested. TE-170

As above, but lactary wired and te Model
TE. 171

Some ar 536. but with $1 \%$ resisto Model ${ }^{5} 5$

## NEW! MODEL 54OK UTILITY TESTER

An oll-in.ane Multi-Mange oc/dc voltmeter, ommeter, in home reacirs of electrical oppliances, and in automative trauble-shooting of botteries, generotors, distributors, of $31 / 2^{\prime \prime}$ meser, ranges volts AC/DC 0.7.5-15.150.300 AC/DC current: 0.15 amps. Ohms 0.100 ahms. Capacitot leakage test. All components and instructions supplied $31 / 4$ = $41 / 2=31 / 2^{\prime \prime}$. Shpg. Fi., 3 tbs.
TE. 173 Kit
Model ${ }^{\text {Me.174 }}$
MODEL CRA- 110

## TV PICTURE TUBE ADAPTER

TE-175-Same or CRA except for $110^{\circ}$ deflection TV oici
ture tubes (wired only) Shpg. W1. 2 lbs. Not 3.95

## MODEL 232K PEAK-TO-PEAK VACUUM TUBE VOLTMETER

## input imped

 input impedonce. $1 \%$ precision ceromic multiolier re sistors used. Measures directly peok-to-peak valtage: 0.4 , $5,15,50$, is0, 500,1500 (up to 30,000 volts with HVP probe, and 250 mc with PRF probel. Ohms: 0.2 ahms to 1000 mess in 7 ranges. Easy calibration. $4^{1 / 3}{ }^{\omega}$ meter, con'p-burn-out circuit. Zero center. With new AC/DC Uni-Probe - half turn io select $D C$ or $A C$ /ahms. Encep. tional stability and accuracy. All components and instruc. tions supplied. For operation of $105.12550 / 80 \mathrm{cps} \mathrm{AC}$ lions supplied. For operation of $105.12550 / 60 \mathrm{cps} A C$Size: $81 / 2 \times 5 \times 5$. Shpg. wt .7 lbs. TE-176 Ki 5.00 DOWN Model 232. As obove, but foclory wired and Net 29.9 s TE.177 5.00 DOWN Net 49.95

## MODEL 249K DELUXE P.P VTVM

 Some os Model 232TE-178 Kit 5.00 DOWN
Model 249 Net 39.95 Model 249. As obove, but foctory wired and tested.
TE.179 50.00 DOWN

## MODEL 221K VTVM

A presision VIVM for rost operation ond wetime d. Dendable service. 41/2" meter. can' burn oul circuil New zero center. Polals is ranges- $A C / D C$ volts: 0.5 .10 100.500.1030 v. 130.000 valts and 200 MC with MYP-1 ond P. 75 probes). Ohms: 0.1K ohms, 0.1.10.100-1000 megohm. DB: -20 to +55 in 5 ronges. New stoble double triode bolonced bridge circuit - 25 megs DC input impedonce. $115 v ., 60$ crcle. $9-1 / 16 \times 6 \times 5{ }^{\prime \prime}$. In cludes all oor's and fubes and instructions. Shog. wi.

TE-180 Kit 5.00 DOWN Net 25.95 Model 221. As above. but fochary wired and tested
TE.181
S.00 DOWN
S.0.

## MODEL 214K DELUXE VTVM KIT

Some os model 221 excep it uses $71 / 2 m$ mefer. $131 / 4 \| 9$ O. Shpg. -1 . 11 lbe

TE-182 Kit 5.00 DOWN
Net 34.95 Madel 214. As abave, but faclory wired and lested.
TE. 183

## VTVM PROBE KITS

For 11 megohm VTVM
TE-184. PTP1IK. D.0 orobe thil Nel 4.95
TE-185. PTP11. As obove, but foctory wired Nel 6.95
TE-186. PRFIIK. RF probe kil Nel 3.75
TE-187. PRF11. As obove, buf foctory wired Nel 4.95
TE-188. PTP25K. p-p probe thil Net 4.95
TE-189. PTP2S. As above, but factory wired Not 6.95
TE-190. PRF25K. RF probe kit Alory wired Net 0.95

TE-191. PRF25. As obove, but foctory wired Net 4.95
TE-192 HVP2. High Voltoge Probe, roods up to 30.000 v wired and lested. Specify VTVM madel number to be used with


## MODEL 460K

## NEW WIDE BAND SCOPE

Excellent Lab procisian scope fealuring Push-pull diroct coupled verical omplifier with high senstivily: $25 \mathrm{mv/}$ in. Responie flat from DC to 4.5 mc , ureful to 10 MC , ideal for reproduction of 3.58 me color TV syne. bursi. 4 sted fieq.esompensoled ottenuator in both $A C, D C$ posi. thont. Also Internal voltage calibration. Automatic syme IImiter and amplifier. $2 X$.full sereen horizantol poitition. ing. Swond-freas 10 io 100 K cps with orternal copocitor
 i-input Impedonce. Completo gith oll components ond instruetians for eosy assembly. $13 \mathrm{x} 81 / \mathrm{z} \mathrm{m} 16^{\circ}$. For $105 \mathrm{~s}^{-}$ 125 vac, 50.60 eycles. Shpg. wh., 30 lbs.
TE-222WXKit $\quad$ 8.00 Down …............Nel 79.93 Modet ${ }^{460}$. At above, but factary wired and tested.
YE-223WX

## MODEL IO2OK TRANSISTORIZED POWER \& BIAS SUPPLY

Highly versatile, stoble and reliable. A completely tran sistorized, very low ripple, ponable $O C$ power and bia swoply providing cantinuously variable output voltage. 2N256 power transistors in the traniformer-operated cir cuit permit output voltoge up to 30 valts. Max. permisripple ( 120 cps ) af fulit laad is anly $1 / 200$ of $1 \%$. A universal power supply for aperating transistor radias, hearing oids, preamps, instruments, efc. Shpe. wh.. $41 / 2^{\prime \prime} \mathrm{Ibs}$
 Model 1020. As abave, but factary wired and fested. TE-225 ....................00 Dawn Nel 27.95

## MODEL 425K 5" OSCILLOSCOPE

Now, professional oscillascape kit, for preclse servicing of TV, FM ond AM. Push-pull deflection and . 05 to 1 Rms volt/inch sensitivity. Response, flot from 5 cps to 500 kc , Usoful to 2.5 mc . Wide ronce sweep from 15 to 75,000 eps. Exiernol syne input Direct connection ta CRT plates. 6.3 V line test signal output. I mes input impedonce. Intensily modulotion. Tubes: 3-ASN7, 2-6J5, $2.5 Y 3$, SBP1 CRT. For 110.120 V , 80 cyciel AC. All com. ponenis supplied with porioble stoel cosp; schomatic and pictorial
29
TE-220WX Kis 5.00 Down ….............Net 44.95


## SCOPE ACCESSORY PROBES

Feoturess fully shielded rugged terminal boord maunting of all ports. Shock-maunted flaating construction, with swivel action and colar-caded for easy identification. Shpg. wh., 5 ar.
TE-228 PSD-K. .Demodulatar Probe Kif............... 3.75 TE-229 PSD. - As above, but foctory wired.....Net 5.75 TE-230 PD-K. -Direct Prabe Kit........................Net 2.75 TE-231 PD. -AB above, but factary wired....Net 3.95 TE. 232 PLC-K. -low Copacity Probe Kit..........Net 3.75 TE. 233 PLC. -As above, but fatiary wired....Net 5.75

## NEW! MODEL 368K TV-FM

SWEEP GENERATOR AND MARKER
An excellent unit of its tyoe; it feotures on oll electranic sweep. 5 ronges. from 3 me to 216 mc . Output Imped. oncei 50 ahms. Variable frequency Marker: $\mathbf{2}$ ronges 5 . 75 mc in fundomentals, to 225 mc in Hormanics. Fixed Frequener Marher. Crystal osclllator using 4.5 mc cryital included with kit. Externol marker con be vised. Sweep width is variable from 0.30 mc . Also cantinuously variable ottenuator and retrace blanking. AGC circult give, extremely flat RF output. Edge-lit hoirlines give exceptianal funing accurocy. All components ond instructions provided. For 105.125 valt: $\mathrm{AC}, 50 / 60$ cps. Size $81 / 6=$ $131 / 2 \times 71 / 4^{*}$. Shpg. Wr., 16 lbs .
TE-234 WXKH …................ Net Down....... 89 Model 368. As abave, but Factory wired and tested.
TE-235 WX
Net 119.95

MODEL 495 K VOLTAGE CALIBRATOR
Enables your scape to measure P.p valtage by comparisan method. Semi-Square wove 60 cps output. Derade atten. wator using $1 \%$ resistars. Romges: $0.1-1-10-100$ valt p-p, each of which is accurate $+5 \%$ of full seale. Oup pup variable from 0 to 100 volts. Regulated power sup ply. Size $5 \times 7 \% \times 4^{\prime \prime}$. Shpg. wh., 4 lbs.
TE.236 Kit $\qquad$
Model 195. As obove, but foctory wired and lested
TE-237
MODEL 320K SIGNAL GENERATOR
Highly itoble Hortley ascillatar has range af 150 ks to 102 mc with fundamentals to 34 me .400 -cycle AM madulation bands. Vernier puning condenser complate with all components and instructians for easy ossembly. Size. $10 \approx 8 \mathrm{z} 4 / 4 \mathrm{~m}$. Far $110-120 \mathrm{~V}$. 60 cyclos AC . Shpg. TE-238 Model 320. As above, but factory wired ond tested TE.239 As above, bul factory wired and tesled. 59.9 Model 322K. Similer kit to Model 320 K excepl with individual colibration of each of the $\$$ bonds.
TE-240 … $\quad$. 00 Down
Model 322. Al obove but factory wired ond............ 23.95 Mode1 322. Al abave, but factory wired and tested 34.95

## MODEL 324K <br> RF SIGNAL GENERATOR

For 1 - RF alignment, signal trasing ond troubleoshooting of TV, FM, AM sets all an fundamentals; morker generator far alignment of now h.f and alder 1.f TV IF. s . Range 190 kc .145 mc an fundomental: 111.435 mc on calibroted harmonics - $\pm 1.5 \%$ frequency oscuracy. Internol 400 cps sinewove modulation varioble tram $0.50 \%$. Colplits ascillator. Variable gain external modutation amplifier; Turret-mounted, slug-luned cails. RF output 100,000
microvalts. Af ourput up to 10 valts. Output misrovalts. AF ourput up to 10 valts. Output Impedance
is 50 ohms. For 105.125 V . AC $50 / 00$ cos. Sixe: 8 ह 10 * $43 / \mathrm{c}^{\mathrm{m}}$. Shpg. wt., 10 lbs .

TE-242 Kit …............3.00 Down
3.00 Down …................... 20.95 Model 324. As obave, but factory wired and tested 20.95

## MODEL 352 K BAR GENERATOR

Rellable, oscurale, portoble, eory-tanves a wonderful fime-soverl Operotes on chonnels 3, 4, 5, when cannected to the ontenna terminals. It produces is verticol bart to chack HOR lineority. 12 horizontal bars to check VERT linearity. Shaws picture size and $V \& H$ syne cirevif stability. Outpuf: $100,000 \mu \mathrm{v}$. Very ureful for TV service work when all stations are off the oir. Size: $71 / 2 \times 5 \times$ $41 / 2^{2}$. Shpg. wi.. 6 lbs

## TE. 244 KH

Net 14.95
Model 352. As above, but factory wired and lested

## MODEL 360K TV-FM <br> SWEEP SIGNAL GENERATOR

Complete, accurate allignment of VHF.UHF TV and FM receivers. Frequency Range: 500 K to 228 MC on fundamen. tals. Sweep width varlable from 0.30 mc . Crystal marker osciflator with variable amplitude. Pravision for external marker. Phasing cantrol included. $81 / 2^{\text {m }}$ vernier dial cali. broted in frequencies. TV chonnels morked on front panel. Tubes: 1.eXSGT, 1.12AU7, 2.6C4. For $110.120 \mathrm{~V} ., 60$ cycles AC. Sires $10 \times 8 \times 8 \% \%^{\prime 2}$ Campleto with tubes: sfeel case, ithed panel, parts, schematic and pictorial diagrams. less crytal. Shog. wi., 12 tbs.
TE-246 Kit ..... ..........5.00 Down
360 As obore but factory wired ond ...Net 34.95 TE-247 3.00 Dom

## MODEL 315K

## DELUXE SIGNAL GENERATOR

Range 75 the to 150 mc on 7 colibroted bands. Accuracy befler than $1 \%$, slobilized by VR power supply circuit Provision for enternal modulation or internal 400 cycle sine.wove modulation. Output $100,000 \mu \mathrm{v}$. Altenuatar provided. Bandspread vernier luning. Tubes: 6C4, $7 F 7$ $6 \times 3$, VR-150. For 105.130 V 60 cycles. Size: $12 \times 13$ $\times 7^{\text {". }}$. All components and instructions supplled. Shpe 20 lbs.
YE-248WX Kit …...........5.00 Down .................Net 39.95 TE-249wx As above, bul foctory wired and tested.

## MODEL 377K AUDIO GENERATOR

Wien Bridge dype ascillotor providing both sine and square wave: $1 \%$ resistars and 4 -gang condenser used. Frequency range: Sine wave, $20-200,000$ cps; square wave, 60 . $50,000 \mathrm{cps}$. Respense $\pm 1.3 \mathrm{db}, 60.150,000 \mathrm{cps}$. Dis. portion less then $1 \%$. Hum less than $0.4 \%$. Accuracy $\pm 3 \%$. K-fallower output of 10 V ocross 1000 ohms rated load 1100 mw$)$. Size: $71 / 0 \times 111 / \times 7 \% \%^{\prime \prime}$. Shpg. wh. 14 Ibs.
TE-250 Kit ..............5.00 Down .....................Net 31.95 Model 377. As obove, but foctory wired and tested.
TE-25; ...................3.00 Down .......................Net 49.95

## 5MC AND 4.5 MC CRYSTALS

Frecision crystals, fit std. sochet \{including EICO $\# 360$ \}
Shpg. wl., 502.
Net 3.95
Net 3.95

# EIGD KITS AND WIRED TEST EQUIPMINT EIGD 



1060K



1180K


1171K


950K


1055 K


MODEL 1060 K "EXTRA-FILTERED" BATTERY ELIMINATOR \& CHARGER
an extra low ripple filter circult. Ideal for latest all-trensistor $t$ or 12 volt equipments and ony conventional ones using vocuum tubes. Solection of voltoge range autamatically provides oppropriete current range. Fused tronsformers primery. Continuous valtoge odiustment with Vorioc. 2 DC ranges and duat-range ammeter for occurote readings. Ronges: high ronge $=0.16 \mathrm{~V}, 1.5 \%$ ripple of 2 omps $2 \%$ at 6 omps; 6 omps continuous, 12 omps intermittont: low range $=0.8 \mathrm{v}, 0.3 \%$ ripple of 2 omps, $1.5 \%$ at 10 omps, 10 omps continuous, 20 amps intermittont. Fo $105-125$ volts $50 / 60$ crele o.c. All components and in TE. 193 Kit ...................5,00 Down ......................... 38.95 re.193 Kt ..................5.00 Down
Model 1060. Ai above, but foctory wired and iented.

## MODEL 1050K 6-12 VOLT

## BATTERY ELIMINATOR \& CHARGER

Provides dependoble $\delta .12$ volf source where $A C$ ripple comporent is toleroble. 2 DC ronges: $0-16 \mathrm{~F}$, 0 omp con tinuous 12 omps infermittent: $0-8 v$ it 20 amps infermittent. Continuaus valtoge adjusiment with orioc. Melers, volfmeler. $0.20 \quad . \quad$ and All components ond instrucions included 0 . $105-12$ volts o.
is tbs.
TE. 195 K
Wit ……............5.00 Down ....................Net 29.95 TE-196 50 . As above, but foctory wired and rested. Model 1055 K -An L.C filier gives addlitional filter for \#1050x or similor unit Size 5 a $4 \pm 52 /=$ yhiter wf. 7 tbs.
TE=198 Kif
TE-199
As above, but factory wired and tested
RIT

Accuroteiv tests of $A$ ond 8 partoblo rodio balfaries or out of receiver. Tests lantern bofferios ond may be odopted to other troes. Provides true dynomic tents by hecking battery terminal voltoge, simulating conditions of actual aperation. Test pasitions: valfs - $1.5,4.5,6.0$, $7.5,9.0,27.5,45,67.5,75,90$, plus spare position. Tesi eads provided. $61 / 4=31 / 4 \equiv 2^{\prime \prime}$. Shpg. W1., 2 lbs
TE. 200 Kit
Model \$84. As above, buf foctary wired and testod.
TE-201

## MODEL 944K FLYBACK

## TRANSFORMER \& YOKE TESTER

Positive check af oll type flybacks and yokes, In ar out of set - in iust secondsl Operates on the extromely sensitive orid-dip principle - shows up even I shorted furnl Ex= clusive separate colibotion for aif core and iron core fybocks for occurate pesting of all rypes. Checks ony $4 \frac{1}{2}$ meter 3 separate calored scoles. Tests continuity of yotes coils, speakers, wifthes, efc. New compoct sizes for extrooils. speaktility - Kit comes complete with instructions
 valts AC $50 / 60 \mathrm{cps}$ Shog. wh 5 ibs
TE-202 KIt ..................5.00 Down .....................Net 23.95 Model 944, As obove. buif factory wired ond ferted. TE. 203
Page 188

MODEL II7IK RESISTANCE DECADE

## Ideat for gonerol desion ond development work. En

 coptionolly accurale wido-range verratile Instrument0.99 .999 ohms in 1.0 hm steos with $s$ decodes. Comporato 0.99 .999 ohms in 1.0 hm steos with 5 decodes. Comporation position permits instont substitution of actual equivolen cemponent of the resiftonce value indicated on the boz All $1 / 2 \%$ occurote 1 wot resthtors. Owality switches. Rugged, trouble froe constructions. Smort protessional atyling - solin linitith doep.etchod oluminum panol, gro,
 3 lbs.
TE. 204 KI
5.00 Down … $\quad$ Not 19.95

MODEL 488K ELECTRONIC SWITCH
Simulioneous observation of 2 pafferns on a single scope screen. Amplitudes of the 2 patterns are Individually od2 polterns. Switching rate, continuously variable $10-2000$ cps. Freq. resp $0.30,000$ cps usoble to 300,000 cpi. Frea. Resp. 30,000 cps usoble 300.000 cps . Al compononts ond instructions supplied. For 105-125 V 50-60 crcles. $6 x 8$. 8 . Shas. 1.. 7 lb
TE-206 K
88. As ob 5.00 Down
...Net 23.95 TE-207
but foctor
5.00 Down
MODEL 1100K RETMA RESISTANCE SUBSIITUYION BOX
a rions. ideal for generol desion ar developmont, olso service resistance valuer from 15 ohms to 10 megohms in decado mulfiples of $15,22,33,47,68,100$ ohms. Uses sfondord 1 wott $+10 \%$ RETMA resistors. Mondy 5 -way ioct to binding posts solin oluminum fool panel sise: 34 $61 / \mathrm{x} \times 31 / \mathrm{m}^{\mathrm{w}}$. Shpo. Wt., 2 tbs.
TE-208 Kit
Model 1100
Model I
Net 5.95

## A

MODEL 145 AK SIGNAL TRACER compoct instrument with complete focilitios. Essontiolly come or F I47A with oye rube and watmater omitted catures high goin RF and low goin oudio channels Shiclded RF crystal demodulator ond direct probes pro vided. Also valuable noise locator circuit. Oufput for ivm or scope. Moy be connected as substitute speaker amplifier or autput transformer. Low noise and hum lovel. Tubes: 1.12AX7, 1.6AO5, 1.6X4. All componenfs and inseructions included. For $105-125$ volts $50 / 50$ sycles Size $8=10 \times 43 / 4^{\prime \prime}$. Shog. wf.. 11 lbs
TE-210 Kif .........50 Down …................Net 19.95 Model 145A. As above, but foctory wired and lested.
TE-211

## MODEL 1140K SERIES/PARALLEL R-C COMBINATIONS BOX

 Resistance Box and the Model Il20K copocitance Bon with addilianal switching facilifies that permit selection of ony resistance alono, ary copacitance olane, or any combinofion of resistance and capocitance in elther series or parallel. Alsa apen circuil and shart circuit positions. Some specs os \$1100 and $\# 1120$. With convenient jock. top binding posts. Shpe. wi. \& tbsTE-212 KF Net 13.95
Model 1140 . As obove, buifociory wired and iested.
Nel


MODEL 950K R.C

## BRIDGE \& R-C-L COMPARATOR

## Cotest bridge-type professional instrument feoturing the

 voluable Comparotor Ronge for measuring unknown capocifance, resistance and inductance with a complementary component as a stondard. Transformer aperated ossures sofe operation. Direct scole on ponol reods 0.5 ohms 500 megs resistance ( 4 rangel), $10 \mathrm{mmfd}-5000 \mathrm{mfd}$ capocifonce ( 4 ronges), and pawer foctor. Kir includes precision colibrating resistor. Unique comparofor ronge has ratio from 0.05 to 20 ( 400 to 1 ). Leakage lesting of all capocitors of rated de warking volloge with internot (varioble) 0.500 vdc source. Electron-roy fube os bath bridge bolonce and capacitor indicator. Attroctive, durable cose, neal easy-fe-read cherocters. Size: $8^{\prime \prime} \times 10^{\prime \prime} \times 41 / 4^{*}$. Shpe. wi.. 8 lbsTE-214Kip
TE-215
5.00 Down ......................Net 19.95
but factor
wired ond sted.

MODEL 147 AK

## DELUXE SIGNAL TRACER

## geluse instrment with unzurpossed festing focilities

 engineered for high sensitivity os woll os good oudio quality. Feotures high goin RF ond low goin oudio chan els. Both visual ard aurol monifors. With shielded RF crystal demodulator, valuable noise locator circuit, bult in calibrated wallmetor, substitute lest spooker, omplifie and autput fronsfarmer. Oufput for VTVM or scope. Triade input circuit for extreme low noise. Hum free operation Complete with all components and instructions with probes. For $105-125$ voc $50 / 60$ cycles. $8 \times 10 \approx 4 \frac{1}{4}$ " Shpg. wf.. 11 lbsTE-216 Kit
TE-217
5.00 Down

Net 24.95

## MODEL 11 20K RETMA

CAPACITANCE SUBSTITUTION BOX
deal equipment for development, desig., 9 , servicin work. Enables rapid substitutior of wide ronge of RETMA copacitance values from 0.0001 to 0.22 MFD in an oper ating circuif to determine volue needod for best per formonce ond to find volue of badly domaged or thegible copocitors. Minimum occuracy $\pm 10 \%$. Uses silver-mico and molded plastic (or seoled in plostic) capocitors, rated appror. 600 volts. Size: $31 / 4 \times 61 / 2 \times 31 / 7^{*}$. Shpg. wf. 2 lbs.
TE-218 Kit
Model 1120 . As above, but factory wired and lested.
TE. 219

## MODEL 1180 K

 CAPACITANCE DECADE Ideal for generol design and development work. Precistonsilver-mico copecitors $1 \pm 1 \%$ oscuracy. roted 350 VOC silver-mico conecifors $( \pm 1 \%$ oscuracy. roted $\mathbf{~} \pm 50$ VOC
cantinuous. 500 VDC intermiftent, 1000 VOC test $)$ orcantinuous. 500 VDC intermittent, 1000 VOC test ar o ranged in 3 decodes for entremely wide ronge of
to 0.111 MF in steps of 100 MMF . With alt switches of to 0.111 MF in steps of 100 MMF . With alt switches of zero, oppronimotely 7 uuf. Insulation resistance of conoci$250,00 \mathrm{C}$ megohms. Satin-finish deep.etched oluminum pansl, gray wrinkled steel cose. Size: $9^{* \prime} \mathrm{~L}, 31 / 2^{n} \mathrm{~W}$ $31 /{ }^{\prime \prime}$ O. Shpg. wf., 3 lb
TE-220 K
Model 1180. As obove, but foctory wired and fested.
TE-221 .....................5.00 Down ........................Net 19.95

[^9]
# procise <br>  <br>  <br> ， 

## 111－K TUBE TESTER KIT

truly oufslonding engineering ochievement in tube tester kitl The speciolized tube gets tested for its specialty ar well os generally．Latest type onti－tocklash roll chort indicates the most impartont single test for normal opplt－ cetions．Teifs all receiving and cothode roy fubes for boit emisition and mufual conductonce．Filament current and lube bios of conventionol and series floment lubes are meorured directly on the meter．Fealures rofory type． witches to cover all tube elements，gos sherk，and uitre－ cenvenient single switch shert sheck．Has spore switch for luture tube types．ueged steel cebinet with deeply etched oluminum oonel．3－color，stepoby－itop initruction manual． for $110-120 \mathrm{~V}$ ， 60 evcle $A C .14^{\prime \prime} \times 10^{\prime \prime}$ \＆ $4^{\prime \prime}$ ．Shpo．wh．， 25 lbs．
TI－415 WX
8．00 Down
Nel 79.95 Model ll｜w but lactory wireds
TE－41s WX．As obove．14．00 Down ……．．．．．．．．．．．．．．． 139.95 TE－417 PTA－K CRT ADAPTER KIT ．．．．．．．．Ib．．．．．．．Net 2.95


## 116－K TUBE AND TRANSISTOR TESTER KIT

Model 116 moker lube testing foolproof by checking mutual conductance，emission，gor and element shorting with incemperable speed ond eccurocy．Actuolly cherks $\$$ similor tubes in 20 reconds－ 4 seconds per tubel Func． tion switch fecilliater checting individuol sections of multisection lubes，by terting a power tube for omisrion and on If lube for muluol conductance，etc．，vou get a true indicotion of how goed the lube will be in the lob it－ill normally heve 10 perform．Only 3 basic linobs． Cover chart lists all iuber including new 600 mo ．series． string rypes．Chesks P．N．P \＆N．P．N Mensisfors．Attrective． rugged moleshin covered wood corrying cave，etched panel with cory，siep－by－step instructions． $71 /$＂$^{\prime \prime}$ y $161 / 2^{\prime \prime}$ n $141 /{ }^{\prime \prime}$ or 110.120 valis， 60 cycter AC．Shpe．wt．， 20 lbs．
TE419WX ……．．．．．．．．7．00 Down ．．．．．．．．．．．．．．．．Net 69.95 Model 116 W ．Al obove，bul foctory wired．
TE－fiowx 119.95

## MODEL 630－KA RF－AF－TV MARKER GENERATOR KIT

Features ceveroge to 110 Mc on lundamentoly， 330 Mc on harmonics．With Fectory ossembied ond collibroted RF Head．Wion Bridge AF oscillater with $20 \cdot 20,000$＜p： ronge．Mas extornol modulation provisions，speech ampli fier，crrytal morker，constont output impedance，slepping oMenvotor，vernier Iunling，Individuolly tuned coils，com． plefe shielding．Elched ponel，steel cobinet，genuine
leather handle．For 110.120 volls， 60 cycle $A C, 8^{\prime \prime}$ ． $11^{\prime \prime}$ leather handle．For 110.
a $5^{m}$ ．Shps． 11. ibs． 11 lbs.
TE－421 ．．．．．．．．．．．．．．．．．．5．00 Down ．．．．．．．．．．．．．．．．．．．．．Net 38.95 TE－422．Model 630 k ．As above，except if heod is nol foct ory oisembled．$\$ .00$ Down．．．．．．．．．．．．．．．．．．．．．．．．t 33.95 Model $630-$ W．As obove，bul factary wired． 53.95 TE－423

5．40 Down ．．．．．．．．．．．．．．．．．．．．．Ne！ 53.95

## PRECISE PROBES

Model 999 MV Pitese．Changable fops．Shoch－proof． multi－insulation．swivelm TE－430 Shpe．wh． 2 lbs．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．tet 6.98 Model 960 － 10 to 1 CAPACITY ATTENUATOR PROAE． Thru 100 mc ：less thon 7 mmfd ．inpul．
TE－431 Shpe．wt．． 2 Ibs．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 5.95 Model 912，RF PRODE．For VTVM，VOM，Scopes，to 250 M．For Amphenol－type cannector
 $\begin{array}{lll}\text { TE－433 } & \text { P12 P．Ai obove，far phono plug can．I Ib，} 4.25 \\ \text { TE－434 } 012 \text { T．As obove，for phona lip con．I lb．} 4.25\end{array}$

## 3151－K OSCILLOSCOPE KIT

An ecenomical sope kit with verticol omplliter response beyond nine megocyeles and Hot to 5 mogocycles．Ideof for coler lelevition and other high frequency uses．Feo． tures push－pull output sloges in both verticel and hori． zontal amplifiers．Vertical sensitivity 10 millivolis der centimeter．（oporoz $25 \mathrm{mv/inch}$ ）．SPI Cethode rey iube with pastocesterotion．Frequency compensated stepping alfonvafor：for both vertical and harizantal amplifiers． Norizontal ompltifer response is to 500 ke within 6 db ． Cathode follower assures linmar troce．Norisontal sensitivity is 40 mv per CM．Hos Focus，Intonsity and Astigmatism controh，colibeation valtoge on ponel．Etched panol，theel ceblinet．Shpe．wl．， 30 lbs.
TE－424Wx ……．．．．．．6．00 Down ．．．．．．．．．．．．．．．．．Net 59.95 Model 31 1－W As obove，but foctory wired．
TE－42swx ．．．．．．．．．．．．． 11.00 Down ．．．．．．．．．．．．．．．．．．t 109.95

## MODEL 9071－K VTVM KIT

华ugoed，industrial type VTVM with overifie $71 / 3^{\prime \prime}$ melo for beffer vivibility and greoter occurecy．Feotures voltoge egutation and $1 \%$ ceramic resistors for outstonding stobil ity and accurocy．Maz burnout proof circult．Special zero center scole lar olignment of FM defectors．Seporete 3 voll AC scale for accuracy on low voltoger．Ranger．Volts AC and $D C_{1}$ 0－5．25－250－500．1000 with 25 mesotim Input Im－ aedonce on $D C$ Meosures both pasilive and negative $D C$ oltoger．Ohms：exi，Ex10，Exik．Exiox，exi mogohm covering .2 ohms to 1000 megahms．$D 8$ ：from -20 la ＋55．Ceeply efched penel，with reired numerols，steel coblnet．Complete with teti leods，internol battary ond specially arepored 3 color instruction book that explains eech slep and gives iti purpase． 110.120 volts $A C$ ．Size： $12^{m} \times 8 \%=3^{m}$ ．Shpe．wt．， 11 ibs．

## TE－46 <br> 5.00 Down <br> Moel 9071 －W．At abore，but foctory wi．．．．．．．．Net 35.95

 TE 427 …．．．．．．．．．．．．5．00 Down ．．．．．．．．．．．．．．．．．．．．．Net 49．0s
## MODEL 909－K VTVM Kir

Feafures special true zero olignment scele for FM \＆TY discriminalors．Has burn－aut proof sirculf．Provides 4 K meter．Coramic proxision raisitors of $1 \%$ or better are uied．Frequency renge io 250 megocycies with PAECISE Model 912 Probe．Volloge ronges：$t D C: 0.5-25.250 .300$ $1000 \mathrm{~V}: A C_{8}$ O．5．25－250．900．1000 V．Ohms ronge to I megohm．OB from -20 to +55.25 megohm input im． pedonce on DC．Complete with lest leodi and internal baltery．and specially prepored 3 －color SPEED Instruction boots．For 105.120 V．． $50 / 60$ evelen，AC．Sizes $9 \%$ in 6

## 5＂．Shpt．wh． 10 lbi． <br> M－445 <br> No9W．Ai obove but 5.00 Down <br> 00 but foclory wired． <br> ．Net 25.45 TE－4M4 <br> 5．00 Down <br> Nof 37.50

## MODEL 635－K AF GENERATOR KIT

 Universal oudio frequency goneroter for sime woves； aquart woves or pulzes．Uses 3 lisber oluz $5 S \$$ vorioble pondermer tronotormer type power suppiy with multi．Alreving supplies $0 C$ operollay viltae．All collbration sircuit resistors are $X$ toleronce ceramie trpers，Rangen： $20-40$ eps， 40.200 cpt， $200.2000 \mathrm{cps}, 2000-20,000 \mathrm{cos}, 20,000-200,000 \mathrm{cps}$ pulses to $50,000 \mathrm{cps}$ ．Truly o rupged instrument．A Whon bridee sime wave penerater with variable reriat once itablizetion foeds the sienal info on amalifer．fot lowed by three steget of clipping．Two cathode follemer are uned to grevide a verioble eulpul sienal，and to com pletety ivelate the excllider．Shpe．wt．，is ibe．
TE－420 …．．．．．．．．．．00 Down ．．．．．．．．．．．．．．．．．．．．．．Net 33.50 Model $\mathbf{6 3 5}$－W．As obove，buf foclory wired．
TE－429 ………… 5.25 Down


## MODEL V-70

## VACUUM TUBE VOLTMETER KIT

DC and RMS MC votiage ranges ta 1500 valts. 7 peok-to- peak valtage ranges to 4000 Volis. 7 ohmmeter ranges to 1000 megahms. Special PACE $5^{\circ}$ acrylic. cased meter. Altractive, casy-reading iwo color ponel. Rugged ripplefinished steel cobinet, slze $71 / 2 \times 5 \% \times 4 \% \%$. Complete with all ports and instructions. Shpg. wi., 6 lbs.

TE-455
Nel 31.50
Model V. 70 W , os above. but factory wired.
TE 456 ......Shog. wt., 8 lbs. 5.00 Down.......Net 47.50 TE-457. AV-1 HF Crysiol Probe for obove 1 16.....Nef 5.95 AV-2 High Volfose Safely Probe. Permits reoding up ta 60,000
TE-458

## Nat 5.95

## MODEL C-20 RESISTANCE-

 CAPACITY-RATIO BRIDGE KIT
## Copocity Ranges from 10 mmfd ta 2000 mfd . Resistance

 Ranges from is ohms to 200 megahms. Rodio test ronges from .05 to 20. Tests leakage of mica, paper, and electro.Irtic copocitors. In attrocilve, ripple finished steel cabinet ond casy-reading 2 color ponel. Dimensions: $7 \times 111 / 2 x$ $5^{\circ}$. Complete with oll ports ond step-by-itep instructions. Shpg. wt., 9 lbs.
TE-459
Model C
TE-4 60

### 5.00 Down ......................Net 20.95

## MODEL T-65 TRANSISTOR TESTER KIT

honsive tests on oll fransistors including the new fetrode honsive tests on oll transistors including the new tetrode
pronsistars, and diodes. $51 / s^{\prime \prime}, 100 u$ amp meter. Direct reading of Ifbo in 5 ranges. Collector supply, 0.5 to 100. VDC in 17 steps. Also reads gain with 5 separate inlectlon currents; leokage tests. Provision far future somi. conductor releoses. In handsome steel cobinet. Camplete with olt ports and instruction manual far eosy ossombly. $7 \times 11 \frac{1 / 2}{7} 5^{\prime \prime}$. For $110-120 \mathrm{v}, 50 / 60 \mathrm{cps}$. Shpg. w., 8 lbs . TE-661 S. 5 Model T.65W. As obove, but factory wired.
TEA 62 .............. 595 Dawn

## MODEL B-10 BATTERY ELIMINATOR KIT

Spesial Low-Ripple output designed to power modern tronsistor circults and automobile "hybrid" receivers Itube and transistor). Both 6 and 12 volt outputs. Automeutput. Doubles as ideal battery chang voriable voltoge output. Doubles as ideal boftery changer. In heovy-duty louvred steel cabinef and two color panel. Dimensions tions. Shpe. wt.. 21 lbs.
tions. Shpo.
Te-463wx
Madel 8 -10W
TE-B6HW


SECO MODEL GCT-8 GRID CIRCUIT tUBE TESTER

Here's the perfect companion unit to use with ony fube tester. Quickly spofs grid errors and leokoge-checks critical "cantrol grid" condition of the vacuum lube foster thon ony other tester. As mony as 11 simultoneous checks - outomolically. Eliminotes guessing, substitution checking and costly coll-bocks. Electron-aye tube indicotes following foults at a glonce: Control Grid Emission, Grid-to-cethode shorts, gaseous condifion, cathodesto-heater shorts, grid-to-plate shorts, plato-10-heater shorts, grid-to-screen shorts, screen-to-heater shorts, etc. Mos 12AU7 cascode omplifier, 6AF6G indicotor, filament selector switch for 2 V to 12 V tubes, 10 prowired sockets. Portoble. Size $61 /{ }^{\prime \prime} \times 21^{\prime \prime}$ n $61 /{ }^{\prime \prime}$. Operotes 105.115 V AC, 60 cycle. Shpg. wr., \& lbs TE-490 Wired
5.00 Down
.00 Down .................Nef 29.35

## MODEL T-60 TUBE TESTER KIT

## Tests oll AM-FM TY Tubes including new

 free-point lever eloment selector system. Extra.large $41 / 2$ ocrylic cased meter by PACE. Illuminated, high speed brass-geared, 3 calumn rall chart. In rugged attractivel finished cabinet. Twa colar panel with contrasting knobsSize $10 \% \times 15 \% \times 4 \%$. Complele with oll parth ond step Size $10 \mathrm{~V} \times 15 \mathrm{~K} \times 4 \%{ }^{\circ}$. Complele with oll party and step
by-step instructions. Shpg. wi., 11 lbs . TE-45 …….......... 5.00 Down ....
Model T. 60 W. As obove, but foclory wired.....Net 38.7 TE-466 …........... 5.45 Dawn...........Net 54.40 TE-467. AT-1 Pix Tube Adapter Coble 2 lbs......Net 4.50 TE-468. AT-2 $110^{\circ}$ Pix Tube Adapter $2 \mathrm{lbs} . .$. Net 4.50 TE-469. AT. 3 Portable Cose Cover Kit . 3 lbs. ... Net 3.95

## MODEL G-30 RF

## SIGNAL GENERATOR KIT

A doluxe unit in every raspect but prict. Conservative engineering ond the wit of high quolity components
throughout asture stable ond occurole performance. Ideal thro ughout assure stable ond occurole performance. Ideal
for oll TV. FM, AM, oudio lesting ond servicing work. Frequency ronge: $160^{\circ} \mathrm{kc}$ to 240 mc in \& bonds, to 120 mc on fundomentals. Outputs-Over $100,000 \mathrm{Lv}^{\mathrm{v}} \mathrm{RF}$; Up to

400 cps audio; Madulated RF. Front panel cantral for varioble modulation. 2-step offenuator. Supplied with
camplete instruction monual far easy assembly. In atreccamplete instruction monuol far easy ossembly. In affrec-
five steel cobinet. Size $7 \times 111 / 3 \times 55^{\prime \prime}$. Far $117 \mathrm{v}, 50 / 60$ cps. Shog. wt.. 9 lbs
TE-470

## … 5.00 Down

Model G.30W. As obove, but foctory wired.
TE-471
Net 28.50

Model G-30-PC. Some as obove. but with the entire "frant end funed circuit pre calibroted and pre-wired.
TE-472 5.00 Down

## MODEL Z-80 RF-AF SIGNAL TRACER KIT

exceptionol value. Designed for use with AM, FM and oudia circuitry, its extro-high goln enoblés direct trocing of the octual signal af the receiver ontenno input terminals. Has both visual and aural indicatars plus outpu clude: noise test circuit, wottmeter circuit; lest amplifior; substifute soeaker and oufpuf iramsfarmer; fine and coorse in selector switch. Complete with detoiled instruction Sizes $111 / 2,7 \times 5^{\prime \prime}$ for $117 \times{ }^{n}$ ottroctive steel cabinet.

TE-473 .... Shigg..wi., 10 lbs. 5.00 Down.... Net 29.50



## SPRAGUE telohmike

 TO-5 CAPACITOR ANALYZERA moderetely priced instrument for complete onolysis of
oll types of copaciters at a guaranteed occurocy of $\pm 3 \%$ oll types of copacitors at a guaranteed occurocy of $\pm 3 \%$
for volues 10200 mfd and $\pm 5 \%$ from 200 mfd up. for volues 10200 mfd and $=5 \%$ from 200 mfd up.
Capocitance bridge meosures capacity in five ranges from 1 mmf to 2000 mfd . whth pushbuftan range selection. Lorge meter directly indicotes insulation resistance up to
20,000 megahms for paper, ceramic and mico copacitors, 20,000 megahms for paper, ceramic and miso copacitors. tors from 0 ta $55 \%$ in three ranges. Leokoge current of electrolytic copacitors meosured directly on meter, with continuously varioble test valtage up ta 600 volis. Push. buttons are colar caded. Upan release of oll buttons, copecitor is outomotically dischorged. In oddition, this unit measures turns ratio of thonsformers. Two tone finish.
 iest leods for 115 V AC/50-60 cycles.

## TE-490WX … 8.39 Down

TO. 5 X , for 1 I $5.230 \mathrm{VAC} / 25.60$ eycles
TE-40iwx Shornch 25.60 cycles. Net 83.90
TE-59iWX Shpg, wh. 18 lbs. 8.99 Down ...Net 89.90
TO.5RM, some os TO. 5 . tor rock mounts. Net

MODEL S-50 5" OSCILLOSCOPE KIT Push.Pull vertical and horizontal amplifiors. Migh-sensi-
tivity, 1 MC vertical amplifier, ultro-modern printedlivity, 1 MC vertical amplifier, ultro-madern printed-
circuit omplifier design. Built-in $i$ vall peak-to-peah selfcaltbrator. Efficiont, two-color, easy-reading panel. Rugoed, louvred ifeel cabinet, $13 \% \times 8 \% \times 17 \%{ }^{* *}$. Complete whit CRI, oll parts and instructions. Shpg. wi., 24 lbs. TE.457 WX ................. 5.00 Down ..................... 49.50 Model S.50W. As obove, but factary wired. TE-47
ASWX
Scope Probe Set. Include (1) $10 / 1$ IO-Cop. (2) crystal demodulotor, (3) shielded direct probes. Shps.wf. 2 lbs.
TE-477

## MODEL S-55 WIDE BAND OSCILLOSCOPE KIT

A deluse, labarotory-lype instrument. Ideol scope for color TV. Cavers the entire range batween DC and 5 mego printed circuit sub-assemblies makity ond instability. The fob to build and use. Vertical chonneli Sensitivity $70 \mathrm{my} / \mathrm{in}$ fob DC ond 25 mv RMS/in for AC . Frequency response for $D C$ and 25 mv RMS/in for $A C$. Frequency response whin 3 db to 4.5 Mc for $D C$ and AC. Input impedance is .08 msec. With 4 step vert.-Input attenuotor better thon .08 msec. With 4 step vert.-input aftenuotor and palarity reversal switch. Horizontol Channal: Sensitivity: 0.6 V
RMS/in. Frequency cespanse within 3 db to 400 KC input RMS/in. Frequency eespanse within 3 db to 400 KC . Input impedance 5 megohms shunted by 23 mmfd . Cathode follower horizonial inpul circuls. Other features include built in peak id peak valtoge calibrator. In louvred steel cobinet with iwo-calor cosy reading ponel. For 117 V . $50 / 60 \mathrm{cps}$. Size: $13 \% \times 8 \% \times 17 \%$. Shpg. wt., 30 lbs,
TE-478wx TE-478WK .................. 85 Down 87.50 Model S. 55
13.95 Down

TE.479WX
Probe 13.95 Down Set. Include $10 / 1$ Net 139.50 Crystal demodulator. Shielded direct prabes. Shpg. TE. ${ }^{2}{ }^{2}$ lbs

MODEL M-40 V. O. M. KIT Highly sensitive V.O.M. for the radio-TV service shap, clossroom, or in communicotion and electronic mointenance. Accurate, reliable, lang-lived performance is asgineering. $1 \%$ Deposited-fllm and wire-waund resistors used throughout. The unit offers high sensitivity of $20 k$ ohms/v DC. $10 k$ ohms/v AC. Features $4 \%{ }^{\circ} 50$ u-amp mer with $\pm 2 \%$ otcurocy. Ronges: $D C$ volte, $0-1.5-6$.
30.150 .600 .1500 .6000 . $A C$ volls. 0.3 30.150.600.1500.6000; AC volls, 0.3-12-60.300-1200. 3000-12000; DC Current. 60 u omp. 0.1.5-15-150 mo, $0.1 .5-15$ ampsi Ohms, $0.2000-200 \mathrm{k}-20$ mes. In malded phenalic case. Complete with detailed instruction manual. Size, $51 / 4 \times 6 \% \times 2 \%=$. Shpg. Wh., 4 lbs.
TE-480 5.00 Down ............................. 31.50
 AM-1. HV Probe. For M. 40 Permits reading to $30,000 \mathrm{~V}$.
TE.482

## KINGSTON

 PROBEMASTER
highly versatile probe with oo neon checker. Its built-in capacitive nefwork permils bypossing sfoges, checking open capocitors, isololing defective stages without externol signol generotor, and elimination of time consuming copacifor subs
TE-497

Nel 4.95

## BOSCO "MOSQUITO" SIGNAL INJECTOR

Amozing AF and RF tronsistorized signal iniector has the size of on ordinary fountoin pen. Ideal for fiold, bench, and loboratory troubleshooting. Excellent for servicing radios. TV. hearing aids, amplifiers, telephones, earphanes, tape recarders, captridges, speakers, otc. Perfect for continuity chacks of resistors, capacitors, efc. Provides - 2000 cps test tone ond generoles radio frequencies on harmonics. Mos one penlight bottery with overoge life of about
TE-498

## SUPERIOR INSTRUMENTS - THE ECONOMY LINE



## SUPERIOR TW-11 TUBE TESTER



Trsis all tubee including 4 , lammath, hearlme ald. Thsratron, minlature, sub-mindature. Mrival. sulb-minar, broximity fucy type, tle. Will test for

 uniler ieft. Truly tesps tulies with tuppal miamenta as any of the plus may he plared in the neutral postlom "hen
 plete dats. Line raltage rentrol mmpensates for rariations in pren 10 and 130 molts. Jark on Pront panel for plukging in or or amplifer to deleet notwo.
 TE.506

## MODEL 80 ALLMETER

- 20,000 OHMS
 PER VOLI - 6 INCH METER - CHECKS VOLTAGE, RESIS TANCE, CURRENT CAPACITY AND DE CIBELS


### 41.65

This experily designed multitester is the only V.O.M selling for less thon $\$ 50.00$ which provides oft the following features: $6^{\prime \prime}$ full-view meter with lorge, eosy-10 former, ond $1 \%$ precision resisisfors.

## SPECIFICATIONS

DC VOLTS, 0.15/0.75 0.150/0.300/0.750/0.1500/0. 7500. AC VOLTS, 0.15/0.75/0.150/0.300/0.750/0.1500 RESISTANCE: $0.2000 \quad 0.20,000$ ohms $/ 0.20 \mathrm{meg}$. CAPAC ITY, $00025 \mathrm{mfd}-3 \mathrm{mfd} / .05 \cdot 30 \mathrm{mfd}$. DC CURRENT: 0.75 UA/O.7.5 0.75/0.750 mils / 0.15 omps. D.B. .o -+18 $-14--38 /+34-+58$. Size $71 / \mathrm{z}$ 61/2 $\equiv 5$. Shop w1 5 lbs. Allmoler comes complete with operoilng Instruc ions. flexible test leads and handsome soddle.stitched corrying coss. Shpg. wi., 5 lbs.
5.00 Down

MODEL 79 SUPER-METER

- VOLT-OHM-MILLIAMMETER
- READS CAPACITY, REACTANCE inductance and decibels - TESTS SELENIUM AND SILICON RECTIFIERS, GERMANIUM AND SILICON DIODES
- 6" FULL VIEW METER


## SPECIFICATIONS

DC VOLTS, $0.7 .5 / 0.13 / 0.75 / 0.150 / 0.750 / 0.1500$. AC VOLTS, $0.15 / 0-30 / 0.150 / 0-300 / 0.1500 / 0.3000$. DC CURRENT: $0-1.5 / 0.15 / 0-15 \mathrm{ma} / 0.1 .5 / 0-15$ amps. RESIS TANCE: $0.1000 / 100,000$ ohms $/ 0.10$ meq. CAPACITY: O01.1 mfd. $/ 1.50 \mathrm{mfd}$. REACTANCE: 50.2500 ohms $/ 2500$ hms- 2.5 mes. INDUCTANCE, $15-7 / 7-7000$ henrios. DECIBEIS: $6-+18 /+14-+38 /+34-+58$.
Here is o multitester which doserves the name Super Moter. The 79 tests the avolity of oll the following com ponents on reparate GOOD.BAD Scales. All electrolytic condensors from 1 mid. to 1000 mid . All selenium rectl. fiers. All silicon rectifiers. All sermonium diodes. The Super-Meter comes complete with all aceossories includ Ing complete operofing instructions, flexible lest leods ond streamlined corrying case. $16 \times 11 / 2 \times 5 \frac{1}{2}$. Shpo TE.SOS 14 Ibs.
5.00 Down

Not 37.73
SUPERIOR TV-12 TRANSCONDUCTANCE TUBE AND TRANSISTOR TESTER


- TESTS PNP AND NPN TYPE TRANSISTORS - PORTABLE
71.05

Superior's now model TV- 12 employs an improved trons conductance circuit which simulotes "In circuit" opero tion of the companent beine tested. An "in phose" sio nol is Impressed on the inpul section of o tube, ond the resultant plote current change is measurad. This provide the most suitoble method of simularling the monner in which pubes actuolly operate in rodlo, television on hi-fl circuils. Other TV. 12 feotures inctude hondy buill.in roll-chort, large REPLACE.WEAK-GOOD scoled meter ight tube and three fransistor sockets, filoment voltoges fram .75 voirs to 117 voits, and offractive portoble

MODEL 77 VACUUM TUBE VOLT-METER


Here is o highly sensilive V.I.V.M. with loborotory o curocy. The model 77 is of greol volue to the technicion ond the experimenter olike. Fealures o built-in isolotion transformer, selenium rectifled power supply, $1 \%$ zero coefficient resistors, printed circuitry
super-sensitive 400 microomp. meter.

## SPECIFICATIONS

DC VOLTS: $0.3 / 0.15 / 0.75 / 0.150 / 0.300 / 0.750 / 0.1500$ AC VOLTS: (RMS) 0.3/0.15/0.75/0.150/0.300/0.750 0.1500 . RESISTANCE: $0.1000 / 0.10,000 / 0.100,000 \mathrm{ohms} /$ $0.1 / 0 \cdot 10 / 0.100 / 0.1000$ megohms. DECIBELS: $-10-+18$ $+10-+38 /+30-+58$. Operotes on $110 \cdot 120$ Voll 60 cycle. $71 / 8 \pm 61 / 2 \times 5$. Shpg. wh., 6 lbs
All occessories including complete Instruction book, probe, flexible loods and affractive portable carrying cose ore included.
TE-509
00 Dawn

Net 71.05

The modef 83 is a modern instrument designed specill cally to rest all old ond new black \& white of well as all color pieture pubes. The tester provides individua lests for the red, green, and blue sections and provides adividual filament, plote, and co:hode valtoges of 6.3 and 8.4 volts for block 8 white tubes. The 83 employ - large easy-forread GOOD-P.BAD scole. It will detert ubes which ore opporently good, but require reluveno ion. All occessories including parfoble corrying case ore included. $11 \% \times 7 \times 3 \%$. Shpg. Wi., 5 lbs.
TE-511 …................. 5.00 Down
Not 41.65


MODEL 770A V.O.M.
A populorly-priced pocket-sized V.O.M. featuring extro large meter ond 850 microompere D'Arsonval type meter. DC VOLTS; $0.7 .5 / 0-15 / 0-75 / 0.150$ 0.1500. AC VOITS $0.150 .30 / 0.150 / 0.300 / 0.1500 / 0.3000$. RESISTANCE $0.10,000$ ohms $/ 0.11 \mathrm{meg}$. CURRENT, $0.15 / 0.150 \mathrm{mo} /$ 0.1 .5 omps. DECIBELS: $.6-+18 /+14-+38 /+34-$ 45. Complete with self.contained botteries test teods and all operoling instructions. $31 / \times 5 \% \times 2 \%, 5 h p g, w t$. 6 lbs.
TE-5 12
Net 15.5 J

## MODEL 70 UTILITY TESTER

Specificolly designed os on oppliance and whlity tester, pertorms testing operaions while units ore in operation, in many cases. Will test poosters, frons, broifers, clocks fans, fluorescent lamps, auto systems. Also has scales far meosuring $A C$ and DC voltoges, AC ond DC current, po. sistonce, leotrage fohms scal from $0-5$ Megohms). Volt. Comes with instructions ond leads. Shpen wis $0-15$
TE-5 13
Net 15.33
Not 15.53


Model 10.60


## MODEL E200-C DELUXE

 SIGNAL MARKER GENERATORA deluxe professional instrument for rellable IV. FM, AM alignment use. Covers frequency range of 88 kc to 240 mc in 9 bands. $61 / 2^{n}$ direct-reading tuning dial with 0.100 vernier drive assures accurate and eosy aperation. Accuracy $1 \%$ on all bonds and exceptional frequener stability. $0-100 \%$ voriable internal modulation. Ouputs: unmodulated $R F_{;} 400$ - crcle modulated RF, and 400 .crcle sine wave. Whit bullt-In AVC-AGC substitution voltoge (variable O-50v DC). In deluze steel sabinet supplied with coax output cable ond illustrated manual-' Servicing wy Signal Substitution ${ }^{\prime \prime}$, $111 / 2 \times 13 \times 65 / 2^{2}$. For 110.120 v $50-60 \mathrm{cps}$. Shos. wt., 17 lbs TE. 5 20WX
-. 50 Down
Nol 95.00

## NEW MODEL 10.60 ELECTRONAMIC TUBE AND TRANSISTOR CHECKER

Now unll provides comprehensive testing of all tubes, transistars, crystal diodes, and TV plsture tubes. Tube testing: tube performonce test over complete path of operation; test VR fubes for both valtage regulation and current limits. Accurate gos lest read directly on $50 . \mu 0$ moter; also sensitive shortocheck. Transistor testing fea ures; Direct lebo reoding in 5 ranges; collector voltoge5 to 100 VC in 17 steps; measures gain and leakage accurutely. Separate reverse and forward current lests for erystal diodes, Provision for testing future semiconductors. In sturdy corrying case. Size, $20 \times 15 \times 7^{\prime \prime}$ Shpg. wh., 26 lbs.
TE-52IWX 19.50 Down .............. Net 195.00
Model 10.40 . Same os 10.60 but without ransistor and crystal diode tosting focillities
TE-522wX ..........Net 149.95 Down Picture tube testing occessorios for obove models. Shpg. Wh.. for soch is 1 lb. TE-523. PTA Picture lube odopter Net 7.75 TE-524. PAA $110^{\circ}$ socket odopter for PTA


## 数



## E5-102 <br> TEST EQUIPMENT

## MODEL 120 M VOM

lab type, compast VOM provides a torge $51 / 4^{\prime \prime}$ meter of $50 \mu \mathrm{a}$ sensitivity and $\pm 2 \%$ occurocy. Ronges: $A C / O C$ output volts, $0-1$-2-3-12-60-300-600-1200-6000; sensitivity - 20k ohm/v on DC, 5 k ohm/v on $A C$; DC current $0.60-300 \mu \mathrm{o}, 0.1 .2-12.120-600 \mathrm{mo}, 0.12 \mathrm{omps} ;$ ohms $0.200-2 \mathrm{~K}$-200K ohms, $0.2-20$ megr; $\mathrm{DB},-20$ to +77 in 8 ranges. $1 \%$ multiplifers. In custam-molded phenolic case. Complete with batteries, test leods and manual. Size, $53 / \mathrm{s} \times 7 \times 31 / \mathrm{m}^{\mathrm{m}}$. Shpg. wt., 5 lbs.
TE-5 25
Net 44.95

Designed where ulmast occuracy is required. Uses $1 / 2 \%$ multipliers. $1 \%$ mirrar-scale meter. Has polority reversal witch. All other physical and electrical specs are some os Model 120
TE-526
5. 30 Down
Net 52.95

Accessaries for 120 and 120 M
C. 3 leother case, over ready rype. Shog. wf., 3 lbs. TE.527 Net 9.50 ST. 1 Snopoon-Strond for $45^{\circ}$ toble mount. Shag. wt. I ib TE-5 28 Noi 1.00 TV- 28 HV solety probe Up to 30 KVOC. Shpe. Wt., 2 tbs. TV-28 HV soletr probe Up to 30 KVOC . Shpe. Wr.i 2 ibs

OTHER PRECISION TEST EQUIPMENT
tafoyette stocks the full precision test equipment line. Le Lafoyette 's Economy Payment Plan help you make this fine cquipmont your own.

| stech Mo. | model | Descriotion | anm. | Not |
| :---: | :---: | :---: | :---: | :---: |
| TE.s3]wx | E800 | Delure Sween Generator Beluke Dot and Bar | r 24 | 180.00 |
|  |  | Deluxe 3 \%or scope | 19 | 235.00 |
|  | 5\%. 5 | Probe set | 8 |  |
| ${ }^{51}$ | tcs | Lesther eave for 88 |  | 9.50 |
|  |  | Tont probe for ranites |  | 14.75 |
| . 343 | arion | Te-i Probe for cankex |  |  |
| $4{ }^{4}$ | - | $\checkmark \mathrm{TvM}$ | 7 | 14:80 |
| E.546 | TVA | HV |  |  |
| salwx | 6 | Tranmiat | ${ }^{3}$ | 14.73 |

## MODEL 110 COMPACT V-O-M

pocket sixe V.O.M with extro features. Full-view $31 / \mathrm{s}^{\prime \prime}$ meter. OC/AC volts: $0-1.5 \cdot 6 \cdot 30-150-600.300$. Sensitivity: $20 \mathrm{kohm} / \mathrm{V}(\mathrm{DC}) .5 \mathrm{k} \mathrm{ohm} / \mathrm{F}$ ( AC ). OC current $0.60-600$ $\mu \mathrm{a}$ and $0.6-60-600 \mathrm{ma}$. Ohmsi $0-2 \mathrm{k}-200 \mathrm{k}$ and $0-20 \mathrm{megs}$. $\mathrm{DB}_{1}-70$ to +70 . Full scale accuracy $\pm 2 \%$. Complete with batteries, test leads and instruction manual. Size $1.11 / 16 \times 31 / 2 \times 53 / 6^{\prime \prime}$. Shpg. Wh., 3 fbs.
TE-530
$\$ .00$ Down
Not 34.00 Accessories for Model 110 . Shpg. wt., 2 lbs. each.
E532 TV. 58 HV

## MODEL 640 CATHODE

 CONDUCTANCE TUBE TESTERThis cathode conductance lube tester is the finest of its type. Large $51 / 4$ " meter, $\pm 2 \%$ occurocy. Tests oll TV, FM and AM tubes, including tuning oyes, gas rectiliers, ofc. Provides fltoment vollages of $3 / 4$ to 117 volts in 24 steps. Tests each section of multi-section fubes. With hi-speed 3 -window rali chart. In sturdy carrying sase. $18 \times 101 / 2 \times 61 / 4 \mathrm{~m}$. Shps. wi., 17 lbs . TE-533WX
7.95 Dawn

Net 79.50

## MODEL 660 TUBE AND TRANSISTOR TESTER

Every tube resting feature of \# 640 plus meosurement of lebo, gain, leakage, shorts, and efc. af all rypas of fronsistors, and forward and reverse current of crystal tronsistors, and forward and reverse current af Crystal
diades. Test TV picture fubes with adapter. Size. $18 \times$ $101 / 2$ " $61 / \mathrm{m}^{\prime \prime}$. Shpg. wh., 17 lbs . TE-S34WX

### 10.00 Down .... Nel 109.00

## MODEL SS-10 FILAMENT TESTER

Fast filoment continuity cnecks on receiver fubes, IV picture tubes. Can be used for other continuity tests. In handsome case. Complete with batreries. Size $\mid$ 53". Shpg. wf., 3 Ibs.
TE-535
Net 6.50

## HG-104 TRANSISTORIZED HARMONIC GENERATOR

The fostest methad over devised for locating trouble in tronsistor rodios. Automaticolly generates oudio, If, and RF signols simultaneously. Immediately spots defoctive stoge. Equally effective in troubloshooting fube rodios, hi-f.. TV ond other oudio circuits. Size: $41 / 2 \times 31 / 4 \times 2^{\prime \prime}$ Shpg. W1., 2 lbs.
TE.557
Net 9.75

## MODEL H36 R-C SUBSTITUTOR

Now at your fingertips, 36 most ofton needed components with this handy subsititution unit. Contains: $12-1$ watt $10 \%$ resistors, 10 to 5600 ohms; 12 - $1 / \mathrm{h}$ wat $10 \%$ resist. ars, $10 k$ to $\$ .6$ magahms; 10.600 valt capacitors, 100 mmf to .5 mid; $\mathrm{t}-10 \mathrm{mid}, 450$ velectralytic: 1.40 mfd 450 v electrolytic. Three-pole. 12 -pasition switch selects eoch companent individually. Sire, $2=4 \%=3 \%$ Tr.558. Shpo. wf. 2 lbs

Nof 12.49

## PS-103 TRANSI-PAC TRANSISTOR POWER SUPPLY

## A law cost DC power supply for all portobie transistor

 radios. 0.24 volts odiustable with o $11 / 2$ volt top for Philco and Sylvonio rodios. Reods voltoge opplied and current droin. Sizeti $51 / 1 \equiv 41 / 2 \pi 2 \mathrm{k} \mathrm{c}^{\prime \prime}$. Shpg. Wh., 2 lbs . TE-556 Net 17.59is is rea


HG- 104

## SENCORE FC4 FILAMENT CHECKER

## This hondy fester gives foolproof open or burn-aut flioment

 check on oll octol, loctal, minioture and picture tubes, as well as on new series filament tubes. Can be used to fesi oltoges ( $100-600 \mathrm{v}$ ) and continuity of fuses, line cords. ppllances, motors, ete. Has neon indicator. In sturdy metol are and measures only $31_{0^{\prime \prime}} \geq 4^{\prime \prime} \equiv 1 \mathrm{~K}^{\prime \prime}$. Complete with est leads. For $110-120 \mathrm{~V}$., AC or DC. Mare then 100,000 in use lodoy. Shog. wi., 1 tb.TE-560
T5.105.
Not 2.89
Net 2.85

## NEW! MODEL TRC4 TRANSISTOR CHECKER

Now, versotile transistor cherker designed egainst obsotescence, and with the servicemen in mind. Tests transistors for apons, shorts, leakoge and curcent going includes goin fest on power transistors; forward to meverse current retio in oll crystal diodes; forword ond reverse current in selenium rectifiers. Reploceable test chorts alfoched on rear. With test leads for fast haokup. $4 \% \times 5 \times 2 \%_{4}^{\prime \prime}$. Shpg. wh. 2 2 F lbs
TE.561
Nof 17.59

## MODEL BE3

## ALIGN-O-PAK BIAS SUPPLY

This compact bias supply is designed for TV alignment and AGC frouble shooting. Completely isalated power supply provides $\pm 0$ to 18 volts DC, with less than $.1 \%$ AC ipple. Complete with tests leadt in hondsome case. For $110-120 \mathrm{v} .60 \mathrm{cps}$. Sire. $2^{1 / 2} \times 4 \times 4^{\prime \prime}$.
TE-562. Shpg. wt., 2 lbs. ULC-2 leother case for EE3 and H36, Shpo....Net 7.69 TE-\$63 .............................................................Net 2.89 TE-S63

# RCA TEST EQUIPMENT-KITS AND WIRED 



## RCA WV-7TE(K) VOLTOHMYST IN KIT FORM

- EURNOUT-PMOOFI - 28 RANGES
- PAMED WV-7TE VOLTOHMYST VTVM
- $\pm 3 \%$ ACCURACY ON DC
- AESPONSE $\pm 5 \%$ ON CPS 105 mC .
- DC INPUT 11 MEG.

This now kif mokes possible substanfiol savings in o hfoh qualliy vacuum-lube valimelar. Ifs 28 ronges include 7 DC voliogess 0.1.5, 5, 15,50, 150, 500, 1500 , with $\pm 3 \%$ of full scale occurocy ond input reststance of 11 megohmm $7 \mathrm{mms} A C$ valtoges $0.1 .5,5,15,50,150,500,1500$, with $\pm 5 \%$ of full scale occuracy; 7 peak-10-peak AC voltagest $0.4,14,40,140,400,1400,1000$ volt $5 \%$ orsuracy: 7 overiopping ohms ranges from 0.2 \% orsuracy; 7 ovoriopping ohms ranges fram 0.2 hms to 1000 megohms with center-scale volues of 10
 mportant features include sere-center for discriminalo alignment; frequency response of 40 cDs to 5 mc . flat o within $\pm 5 \%$ on the 1.5 to 15 volt rms ond 4 to 40 volt p-lo-p ronges; $1 \%$ deposlted.corbon resistors; meter electronically protected against burnout and ohms anges fuseds cobles can be stored in sleeve on handle; meter scales calor coded to mateh range switch; shielded by matal case, ond atched front-panal lettering. Tubes are GAL5 ond 12AU7. Power requirement is 3 wott: of $105.125 \mathrm{v} ., 50.60 \mathrm{CPS}$ AC and V5035 boltery. Supplied complete with $D C$ and $A C /$ ahms prober and cobler and round leods, bottery, and instruction book. Shpg. wi. TE-141 3.00 Down ............. Net 29.95 WV.77E Same, completely wired and foctory-colibrated TE.142 ... .... . 5.00 Down .............. Net 99.95


Most popular of RCA Voltohmyst line. Permit direct reading of peok-to-peok volioget of complex wove forms found in video, syne and deflection circuits. Scole of 7 ranges yields DC readings to fsoov on 2 scales in overlapping 3 to 1 ranges; AC reodings to 1500 V . RMS, ond to 4200 V. peok-lo-peok. Resistonce reodings from 0.2 ohm to 1,000 megohms on single scole. Other features include zoro conloring for TV and dicriminator allgnment; high input resistance on all ronges, 11 megohms for OC, 0.2 to 2 megohms for AC; areurocy of $\pm 3 \%$ of full scole; lorge $6 \%{ }^{2}{ }^{2}$ wide-vision meter. For $105-125 \mathrm{~V}$. AC, $50-60$ epl. Complete with WG.299C probe and cable, ond in. epl. Complete with WG.299C probe ond cable, and in.



### 29.95 <br> siin 43.95 Wired <br> ONLY <br> 5.00 DOWN

## RCA WV-38A(K) VOLT-OHM-MILLIAMETER KIT

## - $\mathbf{3 0 , 0 0 0}$ omms per volt

- 5y/4" meter scale EXTREME ACCURACY
Here is a new VOM by RCA that you con get sither os a
kit or as a foctory wired insirument. A mutl for any kind of electronic servicing. $O C$ voltoge has 8 rangess 0.0 .25 $1.0,2.5,10,50,250,1000,5000$ volts, with $\pm 3 \%$ of full seale occurocy. $D C$ input resistonce is 20,000 ohms per volf. $A C$ valtoge has d ranges: $0.25,10,50,250$, 1000,5000 valts, with $\pm 5 \%$ full scole accuracy. Input resistance is 5000 ohms-per-volt. Frequency respanse, measured with reference at 1000 cps is flat within $1 / \mathrm{db}$ from 10 cps to 50KC for 2.5, 10,50 .valt ranges. Resistance fram $0.2,000-200,000-20,000,000$ ahms in three ronges. $D C$ current has d rangest $0.1 \cdot 10.100-500$ milliamperes, and $0-10$ amps. with full seole accurocy of $\pm 3 \%$. Complete with internal botteries, ground lead and clip, positive prabe with slip-an alligolor clip, and instruction booklet. Assembly instruction sheet is provided with the kif. Size $31 / 4 \times 1 / 80^{\% /} 0^{n}$. Shipping wl., 4 lbs
TE. 139 ................00 Down 29.95
Wv. 38A Campletely wired and factory tested
TE-140
5.00 Down

Not 43.95

## WT-IIOA NEW AUTOMATIC TUBE TESTER

All-new in opprooch to fast, occurate tube testing-just insert punched cord info the fester. Repisters fube's serv. iceability by checking transcenductance, gas, sharts, and interelectrode leakage. A complete tell in a fow seconds. The quolity of the lube is indicaled on "Renew-? Good" meter scale. Tests 7 -pin. 9 -pin, actal and lock-in types. Speed up testing of diodes irioder, and multi liement tubes, as well as double-and triple-unit tubes Includes sel of 239 pumehed cords I mosler punch.cord test card plus 24 odditional punched cords, 24 unpunched occessory cords 1 card punch and information regardine cord-punching and testing. For 115 V mon regarding cord-punching and lesting. For $115 V$. 80 cyeles A.C Sturdy
28 lbs.
TE. 113 WX
19.95 Down

WG-325A 24 Bionk Cords for WP-110A (1 ib)

## TE. 114

Not 199.50
Nel 2.25 6 -pin boses, and small and medium 7 -pin beses.
TE-131 Shpe. Wl., 6 oz
Net 7.95
WG.338A. Tube sockel odopler for testing "in.line" subminicture lubes.
TE-132 Shpg, wi., 6 ox. ....................................Net 2.95 WG.339A. Tube sockel odepter for lesting 8-leod circulor subminiolure fuber
TE-133 \$hpg. wi., 6 oz . Net $\mathbf{3 . 5 0}$ WG.324A. Gos tube odooter for festing the fubes listed as follows: OA2, OA3, OB2, OC2, OC3, OD3, OZ4. TE-134 Shpg. wi., 6 ox.......................................Nol 2.95

## WV-74A HIGH SENSITIVITY ac Vacuum tube voltmeter

## For use in foedbock-circult design, signal tracing, audio

 and power level measurements, amplifier balancing. fre quency response iesis, etc. Voltoge ranges fram 10 mv to 100v lull scale in 3.ro-1 steps; high inpul impedance of 10 meg-ohms with LO-CAp probe; frequency response frequency rang db from 20 to 500 K cosy power line requency range 50 to $400 \mathrm{cps} .7 \times 3 \frac{1}{4} \times 61 / 2^{\prime \prime}$. Shipping we.. 7 f bs9.95 Down

Net 99.50


## RCA WO-33A (K) 3" SCOPE KIT

## - portarte a compact

- WIDE GAIN a BANDWIDTM
- verr high vert. sensitivity

The new, extremely partable and campaci wa-33A 3 -Inch Oscilloseope is ovailoble os a kit or os a foctory-wired instrument. It will hondle ony block-ond-white or color-IV servicing job. With tols of goin and bondwidth, the wo.33A con be used in PA, rodio, IV, MJ-fi, loborotory, ham radia, braadcost, and industrial applicationsi Vertical omplifier has two positions. On wide band position, sent sitivity is $100 \mathrm{rms} \mathrm{mv} / \mathrm{m}$. and bandwidth within 3 db from 5.5 cps to 5.5 Me . On narrow band pasition, sensifivily is $3 \mathrm{rms} \mathrm{mv} / \mathrm{in}$, and bandwidth within 3 db from 20 eps to 150 KC . Has external and $\pm$ internal sync. Sync range to 4.3 Mc . Sawtooth ronge from is cps to 75 Ke . Line sweep can be odiusted $160^{\circ}$ phose. Vertical circuit input impedonce af lo-cap coble input is 10 megohms and 10 micromicroforods opproximately. Complete with direet/lo.cap probe and sable, and Instruction bookiet. Assembly Instruction sheet provided with the kif. Power requirement is 50 wath of 105.125 volts, $50 / 00 \mathrm{sps}$. Size $6 / / x 10 \% \times 8 \%$ ". Shipping wt., 15 lbs .
TE. 137 WX Nel 79.95
WO.33A Completaity wired and foctory tested.
TE.138WX ....... 13.00 Down
Net 129.95

## OTHER RCA TEST EQUIPMENT

Lofayette carries the camplete line of RCA test equipment and will give prompt oftention to your orders. All ore ovailable an Lofoyette Easy Poyment Plon

| $\begin{aligned} & \text { stock } \\ & \text { NO. } \end{aligned}$ | $\begin{aligned} & \text { RCA } \\ & \text { modet } \end{aligned}$ | DESCRIPTIOM |  | NET |
| :---: | :---: | :---: | :---: | :---: |
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## RCA ACCESSORIES

WG.299C. DC/AC-OMMS Probe with shielded coble and coorial connector. Shipping wi., 1 lb. TE-126

Ne1 8.75
WG.300B. Direct/Le-Cop Probe \& Cable for use with oscilloscopes. Shipping wi., 1 lb.
TE. 127
Net 9.95
WG-301A. CRYSTAL DIODE PROBE to extend ronge of Volf.Ohmyit to 250 Mc . Slip on fype. Shipping wh., ${ }^{8} \mathrm{Nez}^{\text {ot }} 7$. TE-128

Ne1 7.75
WG-302A. RF/IF/VF SIGNAL TRACING PROBE for uso with WG-91A and WG-300B prabe. Shipping wi. 8 as.

WG.289. HIGH VOITAGE PROBE extends Voltohmyst ronge to 50,000 volls. Shipping wi., ili.
ping wh., 2 ot
TE-136


## MODEL 310 VOM

Miniature VOM with ronges of 0-3-12-60-300-1200 volts OC of 20,000 ohms per volt or $A C$ of 5,000 ohms per vols Ohms: $0-20 \mathrm{~K}-200 \mathrm{~K}-2$ meg- 20 meg. $D C$ millionperes 0.6 .60 .600 of 250 millivalts. The 310 measures $2 \%$ a $4 / 8 \times 1.3 / 16$ ond is mode of molded plastie. breakoble plostic window. Complese with baffery ond leads. Shp9. wt.. I Ib

MODEL 10 CLAMP ON AC AMMETER
Clamp on type ammeter, plugs inta 310 VOM. Jows clomp oround singt conductor to measure 0.6-12-30-60. 120.300 omps AC. Shpg, $\mathbf{~ W} . .3 \mathrm{~K}$ lbs. TE-361
Model 369 block leather cose for model 310
TE- 362 .............. Shpg. wh., 8 az.................Net 3.14 Model 379 -Some os obove for 310 and 10. TE-363 ..........Shpg.wt., 8 oz....................Net 5.39 Model 101 IINE SEPARATOŔ-Divides two conductor cords, increases senslfivity $10 x$ ond 20 X TE-364 Shpg. wi., 2 lbs

Net 5.39 Modet 100. Complete sel includes Madels 310 and 10 , 101, 379, 311. Shpg, wi., 5 lbs. TE-365

Net 58.31
No. 611 . Leods odopt model 10 for use with ony VOM hoving 3 voli AC seole of 5000 ohms per volt, such as hoving 3 volh AC seole
Tripletl 630,631 series.
TE. 366 630, 631 Ieries. TE. 366 ............. Shpg. Wh., 1 1b. .................Net 1.86 TE-367

Shpg. wi., 1 lb.
Net 1.86

## MODEL 630 VOM

A populor VOM with a torge $51 / 2$ ". meter lor easy vist bllity ond gremer octurocy. Sensivivity 20,000 dinms de voit $\mathrm{OC}, 5.000$ othms per volt $A C$. Ronges: 0.3-12.-00.300 1200.6000 volts, Ohms. 0.1 K - $10 \mathrm{~K}-1$ meg. 100 meg. DC
milliomperes: $0-.00-1.2-12-120$ of 250 millivalts. OC om.
 Dites: 0.32 . DB: -20 or $+7010 \mathrm{DB}=1 \mathrm{mw}$ in 600
ohm.i Meler has sures $3.7 / 32^{\prime \prime} \times 51 / 2^{\prime \prime} \times 71 / 3^{\prime \prime}$. Complete wi:h loods, clips, botheries and instruen

Net 43.61

## MODEL 630A VOM

Hishly oecurote loboratory tyoe VOM with mirrored scole
 20.000 ohms per voit or AC o 5000 ohms per volt. Ohms $0.1 \mathrm{~K} .10 \mathrm{~K}-1$ meg 100 mes.: $D C$ milliomperas: $0.08-1.2$ 12.120 . DC omperes: 0.12 . Decibels: $-2010+70$ in
six ronges. Metor hos molded six ronges. Meter has molded, fully insuloted cose, meo-
sures $37 / 32^{" \prime} \times 51 / 2^{\prime \prime} \times 71 /{ }^{\prime \prime}$." Furnished with leods, cllos.
 re.369-5.35 Down

Nel 53.41

## MODEL 630-PL VOM

design. AC frequency responsesion. Feotures streomlined and, OC Polority reversing switch. High sensitivity: 5000 ohms per volt AC, 20.000 ohms per volt $D C$. $D C$ Vol's: $0-2.5-10.50-250-1,000-5,000$. AC Volts $0-3$-10.50-250 $1000-5000$. Decibels: -20 to +75 . DC milliamperes: 0 1-10-100-1000 of 250 millivalis. DC Amperes: $0-10$ Ohms: $0.1 \mathrm{C} .10 \mathrm{~K}-1$ meg. 100 meg . Molded, fully insulated case, 9 ator
6 lbs.
TE-370-5.00 Down
Page 194
..........Net 43.61

## MODEL 630-NA VOM.

The super deluxe of oll VOMs. Hos seventy ronges, iwice os mony os other VOM's. Frequency componsoted from 35 on DC. $3 \%$ on AC. Lorge open front meter is very eosy to read. Mirrored scole prevents porollon. Metor movement is protected ogoinst overloods. Ronges, DC volts 0-.240..6-3 $12-60-300.1200-6000$ of 10.000 ohms per valf; $0.120 \cdot 3$ $0-3-12-60-300-1200-6000$ of 5000 ohms per volt; $0-1.5-6$. $30-150-600-3000$ of 10,000 ohms per voll. Ohms: 0.1 K . $10 \mathrm{~K}-100 \mathrm{~K}-1 \mathrm{meg}-10$ meg- 100 mms meg. $D C$ milliamperes: 0 $.06-12 \cdot 6-1.2-6-12-60-120-600$, $D C$ omperes: $0-1.2-612$ $O B_{:}-20$ to +70 . Molded cose, complete with lends and TE-371-7.30 Dawn

Net 73.01

## MODEL 631 VTVM-VOM

Complete VOM.VTVM combinotion. VOM is used for gen erol servicing. VTVM used when use of VOM is undesiroble becouse of encessive looding on the circuit. VTVM is bottery operoted for extro stobility and portobility. VTVM sensitivity 9 megohms per volf. VOM ranges: $D C$ Volts $0-3.12-40-300-1200$ of 20,000 ohms per volf, AC $0.15 K-15 K .1,50-300-1200$ at 5,000 ohms per valf, Ohms 1.2-12-120-1200-12,000. $D B_{\text {s }}, 20$ to +56 VTVM Ron. ges: $D C$ Volls: $0-1,2-6-30-120$. Molded cose, with leods and botleries. $311 / 32^{\circ \prime} \times .51 / 8 \times 71 / 8$. Shpg. wf., 7 lbs.
TE-372-6.30 Down ...............................................Net 63.21
No. T-79 A-145 R.f. probe for model 631 to extend measurements up to 250 MC . Shpe, wt., 1 tb.

Net 6.86

## MODEL 630-APL VOM

Loboratory type VOM feoluring $1 / 2 \%$ resistors and more occurate movemont for greater occuracy. lang mirrored scales elininote parallaz in reading. One switch selects ony ronge, minimizes chance of incorrect sethings. 5.500 .000 cDs frequency response for AC measurements. DC Po: lority reversing switch. High sensitivity: 5000 ohms per volt AC, 20,000 ohms per volt DC. Ronges: DC Volts: $0-2.5 \cdot 10.50-250 \cdot 1000.5000$. $A C$ Volisi $0.3-10 \cdot 50-250$ 1000.5000 . Dectbels -20 to +75 . DC milliomperes: 0 . $0.1-10.100 \cdot 1000-10,000$. Ohms: 0.1 K .10 K .1 meg-100 meg. Molded cose, $3-11 / 32^{\prime \prime} \times 51 / 2^{\prime \prime}$ n $71 / 2^{\prime \prime}$. Comple'e wish leods, alligotor clips, batteries, ond Instruction monuol. YE-374-5.35 Down .... Avg. shpg. wi., 7 Ibs....Net 53.41

## MODEL 3423 TUBE TESTER

Delure mutual conducionce fube iester feoturing varioble $0-250$ volf plote volloge for occurote, dependoble testing. Uses 4 Kllocycle test signol on grid. Directly reods mutuol conductonce in micromhos. Also lests selenium rectifiers, thyretrons, erystel diodes ond fransistors. Direct leokoge measurement on meter from 0 to 10 megohms. Direct leokoge -Bod scole for diades and rectifiers. All new. hes Good-? -ged from. 63 to 117 valts provide for iesting of all oges from. 63 to 117 volts provide for lesting of all receiving and low power transmitting tubes, subminiotures, including new series-string types. Speed-roll chort eosily reploced for new pube listings. Sizes $6.13 / 32^{\prime \prime}$ $143 / 4^{\prime \prime}$ $18.25 / 32^{\prime \prime}$. Shpg. wf., 25 lbs
TE-375 WX-19.50 Down
Not 195.51

## TV PICTURE TUBE ADAPTER

Check picfure fubes right in set or corton. Can be used with Triplett Models 3413-B, 3423, 3414 and 3441.
TE-376 BV Adopter 5.29 Shog. wi., 3 lbs.........Net 5.29 Model 639-N Carrying cose for testers 630, 630.A. $630 . \mathrm{PL}, 630-\mathrm{APL}, 630 . \mathrm{NA}, 631$, 630T.
Cover flap snops back allowing full access to meter with. out removing cose, 8lock Cowhide.

MODEL 3414 TUBE TESTER
Here is o Porloble, cosy-to-use test instrumont. Its aceurocy is usuolly found oniy in high-priced fube lesters. Alt switch seltings can be mode before the tube worms Up, burned out lubes ore rejected Instontly upan insertion of rube. The neon indicotor defects sharts quickly and oc curorely. Filoment volioge of 0.65 to 117 volts ore pro ched. The 3414 contoins o hondy "quick chonge" roll Readings ish lists all populor rodio. TV and Hi-Fi twbes meter. Scale reads GOOD-?-8AD. Counter-Porioble dark grey leatheratte covered cose in included $157 / \mathrm{m}^{\prime \prime}$ $11 / 1 /{ }^{\prime \prime}$ \& $61 / 2^{\prime \prime}$. Shpg. wf. 10 lbs
TE-378WX-8.00 Down
MODEL 690-A TRANSISTOR TESTER
Brand new lester for low, and medium-power tronsistors. Meosures leokoge ond current goin of bolh PNP and NPN tronsistors. A single switch selects trensistor type settings for easy ond ropid testing. Meter hos extro-long "GOOD" scale to provide o better indication of the degree of guolity. The 690.A olse offords exact lests for shorts, leokoge, ond forword-reverse leokage of diades. A fron: eoktor socket accepts ony standard fransiter ond bonono tyoe jorks occeph ony standard transiivor ond bonono
 5 1bs TE-379-5.00 Down

Net 28.91 Ne. 829 Black leather cose for Triplett model $690 . \mathrm{A}$ or TE-380

## MODEL 650 VTVM

A comporr peok-to-peok voruum tube vol'meter feoturing sensitivity of 1 voll full scole. Complete ceveroge from 15 cps to over 150 mc with one probe. Reods RMS valis or peak to peok. Accurocy $3 \%$. Ronges, 0-1-5-10-50.100500 volts on DC or AC-RF. Entro $0-1000$ volis DC ronge. Peak-to-peok ranges $0-2.8-14-28-140-280.700$ volts. Ohms: $0.1 \mathrm{~K}-10 \mathrm{~K} 100 \mathrm{~K} \cdot 1 \mathrm{meg}-100 \mathrm{meg}-1000 \mathrm{meg}$. Insulated molded case with removable strop hondle. With leads, botter. ies and instruction manuol, for 110.120 volts 60 cycles. Shpg. wi., 8 Ibs.
TE.381-8.80 Down .............................................Ne1 87.71 TE-382-No.T.79.107 Probe for 650 ...................Net 14.21 MODEL 659 block ledther case for Model 650
TE-383 ................... Shpg. Wf. . 2 Ibs.......................... 10.29

## OTHER TRIPLETT TEST EQUIPMENT

cofoyefte stocks the complete Tripleth test equipment line. bep the loloyette Economy Payment pion help you moke

| Stock No. | Trip No. | Description | Shpg. Lbs | Net |
| :---: | :---: | :---: | :---: | :---: |
| TE-384 | 625NA | V.O.M. | 6 | 53.41 |
| TE-385 | 6307 | V.O.M. | 6 | 53.41 |
| TE-386 | 660 | Lood Check | 4 | 33.81 |
| TE-387 | 661 | Load Check | 4 | 33.81 |
| TE-388 | 666HH | Pocket V.O.M. | 4 | 26.95 |
| TE. 389 | 666R | Poctel V.O.M. | 4 | 28.91 |
| TE-390 | 2002 | Appliance tester | 6 | 43.61 |
| TE-392WX | 3432 A | Signol generotor | 15 | 97.51 |
| TE-394WX | 3438 | Dot-bor color gen. | 16 | 224.91 |
| TE-395 WX | 3439 | Color bor. gen. | 16 | 244.51 |
| TE-396WX | 34414 | 5" Oscilloscope | 45 | 24.4 .51 |
| TE-397WX | 3444 | Drn. Mut. Cond. | 40 | 244.51 |

## TRIPLETT ACCESSORIES

TE-400
TE-402
TE-403

| 1 |
| :--- |
| 1 |


| $0.30,000 \mathrm{VDC} \mathrm{Hi}$-Volt Probe for 830 and |  |  |
| :---: | :---: | :---: |
|  |  |  |
| 631 series | 8 oz. | 14.21 |
| 45 stond for 630. |  |  |
| 631.650 | 1 It | 49 |
| Cryital Demod, Probe |  |  |
| for 3441A |  | 10.29 |




And ADD-A-TESTER UNITS


## NEW! IMPROVED, MODEL 260 WITH ADD -A-TESTER UNITS

## CONVERT YOUR 260 INTO 7 DIFFERENT TESTERS!

A small Investment turns your 260 VOM inta o whale orray of testers by combining odoplers with the 260. Each combination of Add.A.Testor unit ond 260 is solf.conlained, self-powered. Eoch adapler coes on easily.

## MODEL 260 AC-DC V-O-M

Its dependobility has made it one of the most papular of Voms. Now offered in a new and improved form. Sensl. livity $-20,000$ ohms/V.D.C., 5,000 ohms/V.A.C. Rangest $D C 20-25 \mathrm{~V}, 2.5 \mathrm{~V}, 10 \mathrm{~V}, 50 \mathrm{~V}, 250 \mathrm{~V}, 1000 \mathrm{~V}, 5000 \mathrm{~V}$, AC $0.25 \mathrm{~V}, 10 \mathrm{~V}, 50 \mathrm{~V}, 250 \mathrm{~V}, 1000 \mathrm{~V}, 5000 \mathrm{~V}$; A.F. 10.2 .5 V lov, SOV. 250 V ; $\mathrm{DS}_{2} 20$ to $+10 \mathrm{db}-8$ to +22 db +6 10 $36^{\circ} \mathrm{db}+2010+30 \mathrm{db}$. DC current ranges fram $0-50$ u omps, $0-1,-10,-100,-500 \mathrm{ma}, 0-10 \mathrm{amps}$. DC resistonce from 0.2000 ohms, $0-200,000$ ohms, 0.20 megohms. Accuracies? DC volts $\pm 3 \%$ F.S.; AC volts $\pm 5 \%$ F.S., DC resistance $\pm 3 \%$ of orc from absolule valuo of resisionce measured. Moier housed in Bakelite case, measures $5 \% \times 7 \ldots 3 \% \%$. Comes with battery and lest leads. Shpg. wi., 6 lbs.
TE-310 Not 43.07 Model 260 RT. As obove, but In "roll top" sofety cose. Shpsi, wh., P lbs. 5.00 Down NO. 0247 HV PROBE for 260 for extonding to 25 kr . TE- 312 Shpg. wt., 1 lb .
NO. 1818 CATHER CARPYING CASE for 260 TE-313 Shpg. wt., 21 bs .

## and case for 260.

 Not 9.75 TE. 313 Shpg. Wl., 21 bs NO. 402 ADAPTER KIT. Adopts oldor Model 260 Sories 2 VOM for use with Add.A. Tosters UnitsTE-352 Shpg. Wi., 21 lbs .

## MODEL 311 VTVM

A new, improved and expanded version of a praven meter. Has 22.0 megohm D.C. input impedance, highest in its class and rero-center scale adiustment for diseriminator alignment. Ranges: DC. -0.1.5-5-15.150. 500-1 500V; A.C. - 0-1. 5-5-15-1 50-500-1 500V 12.2 megohms input impedancel; Peak-10-peat lfo measuring complex wave forms) - (0-4-14-40.140-400-14C0-4COOV. Will measure AF output valtages from 0.1 V to 1500 V with a frequency response of $+5 \%$. Will measure ${ }^{\text {Wf }}$ voltoges of frequencies from $50 \mathrm{cps}-100 \mathrm{M}$ ces SCALE
0.150 S SMS. Resistance measurement: XI. XPO X100, XIK, XIOK, XICOK, XIM. Zero center D.C.: -. 75,0 , + 75. Meter comes with D.C. - A.C. - Ohms probe; RF probe avollable. Shipping wh., $61 / 2 \mathrm{lbs}$. TE-321 . 6.37 Down .................Net 63.65 NO. O731 RF PROBE. Meosures RF volts on Model 311 . Shpo. w1., I tb. Net 10.73



MODEL 269 V-O-MICROAMMETER A meter with extremely high ionsitivity: D.C. 100,000 ohms/v; A.C. 5,000 ohms $/ v$. yet completely portable, battery operated. 33 ranges; large $7^{\prime \prime}$ dial; only 2 controls. Ranges: D.C. volis $0-1.6$ - 8.40-160-400-10004000 v : AC volis $0-3-8 \cdot 40-160-800 \mathrm{v}$; Af output 0-3-8.40. 100 v : Resistance $0-2,000118$ ohms centerl $-20,000$ -200,000 - 2 Megohm 20 Megahm -200 Megohms. D.C. Current $0-16-160$ mieroamps; $0.1 .6-16-160$ milliamps, 0.1 .6 - 16 amps. Dimensions: $7.15 / 16^{\prime \prime} \times 6^{\prime \prime} \times 2-15 / 16^{\prime \prime}$. Comes with test leods, batteries, clips and 4000 ॠ. D.C. multiplier, operotor's manual. 40 KV DC probe availoble, Shipping wt.. 6 lbs.
TE-324......................... Not 86.24 NO. O181 HI VOLTAGE PROBE. Extends DC ronge of Madel 269 to tokV. Shpg. Wl. 2 lbs TE-325

## MODEL 650 TRANSISTOR TESTER

Beta ranger: 0.10 , $50,-250(F .5$.$) . Belc accuracy: \pm 3 \%$. with $260, \pm 5 \%$ nominal. leo range: 0.100 vo. Iea ar curacy $\pm 1 \%$ with $260, \pm 3 \%$ (F.S.). For use with TE-314 ….............. 5. 500 Down

## MODEL 651 DC VTVM

Valtoge ranges $0.5 / 1.0 / 2.5 / 5.0 / 10 / 25 / 50 / 100250$ /500. Accuracys $\pm 1 \%$, with $260 \pm 3 \%$ (F.S.). inpul impedance greater than 10 megs. For use with Model 260. TE-315 5hpg. wf.. 2.lbs. 5.00 Down ...........Net 32.29

## MODEL 652 TEMPERATURE TESTER

Temperalure ranges: $-50^{\circ} \mathrm{F}$ to $100^{\circ} \mathrm{F},+100^{\circ} \mathrm{F}$ ia $250^{\circ} \mathrm{F}$. Accuracys with $260 \pm 2^{\circ}$. Three lead positions provided For use with Model 260 . Shog. W1.,2 lbs
TE-316

## MODEL 653 AC AMMETER

Ranges: $0.0 .25 / 1 / 2.5 / 12 / 5 / 25$ omps. Accuracy $\pm 1 \%$ with $200 \pm 5 \%$ nominol. Freq, ronger $50-3000$ cycles for use
TE-317

Nel 18.57

## MODEL 656 BATTERY TESTER

Checks all radio and hearing aid batteries up to 90 valis for use with ,Model 260 . Shpg. Wi., 2lbs. TE- 320

## MODEL 383 CAPACOHMETER

This in-circuit or out-of-circult capacifor leakage tester will delect $60-70 \%$ of all bad capacitors while bath ends are connected in the circuit. No unsoldering required - no matter how the capocitor is connected in the circuit. Pulse - voltage test quichly detects "berderline" capatitors. Unit indicates leakage and measures copocitance of poper, mico or ceramic capocmeasures leatage in ohms; checks for direct short open or intermitient condittons of all kinds of con. open or intermittent conditron of all kinds of con-denseri-by-poss, coupling, blocking - from 10 mmfd There is no fussing with bridge circuits and balancing contrals. Reodings ore made with better than $10 \%$ contrals. Ienodings ore made with better than $10 \%$
accuracy. In addition, the instrument can be used accuracy. In oddition, the instrument can be used distributed capocity of wiring to ground, Operates, on $110 \mathrm{~V}, 60$ evales AC . Size: $8 \%{ }^{\prime \prime} \times 11 \mathrm{m"} \mathrm{\prime} \times 81 / 3$ Comes with test leads and operalors manual. Shpg.
wt. II lbs.

TE-326WX ……...... 8.82 Down ................ Nef 88.15

## MODEL 355 MIDGETESTER

A very handy, miniature, highly accurate $A C-D C$ Vollohmmeter. Can be carried in your shlot pockef. Selfshielded and rugged for lots of use in applionce repalf, radio and TV servie. Sensitivity $-10,000 \mathrm{ohms}$ / palf, radio and IV service. Sensilivity v. 10,000 onms A.C. Has 100 microamp movement and handy ohms zero adjust on side of case. Ranges: A.C. and D.C. vero adust on side of case, Ranges: A.C. and D.C. 1120 ohms renterl 100 K il Megohm 10 Megahms. function and ronge selection is made by proper inFunction and ronge selection is made by proper insertion of leods. Size $21 / 4 \times 4 / 2 \times 1$
batteries and leods. Shipping wi., 2 bbs.
TE-327
5.00 Down ……............ Nel 34.25

NO. 6355 CASE for Model 355. Migh quality black leather
with ripper. Shpe. wi., 3 oz.
TE-328

## MODEL 654 AUDIO WATTMETER

Laod ranget: 4, 8, 16, 600 ahms. Continuous 25 watts ( 8,600 ohms), 50 watls (4, 16 ohms). Iniermiltent 50 wat1s $(8,600$ ohms 100 wolls $(4,16$ ohms). Accuracy $\pm 5 \%$ with $260 \pm 10 \%$ nominol. Direct reoding scale from micravalis to 100 watts. For use with Model 260

## MODEL 655 MICROVOLT ATTENUATOR

Ranges: $\mathbf{2 . 5}$ to $\mathbf{2 5 0 , 0 0 0}$ micravolfs, continuously variable in decode sleps. Frequency from DC to 20KC. Accuracy TE-319. For use with Model 260. Shpg. wi. 2 lbs. 18.57

Nate: All Simpson 260 Adapters provide for normal 260 urage without disconnecting the adapter

## MODEL 270 VOM

Mas oll the superb features of $\mathbf{2 6 0}$ plus mirrored scale knifo-edge pointer, $1 \% \%$ DC and $2 \%$ AC occuracy. $5 \%$ TE-353 . Shog. wh..............5.88 Down TE-353
Model 270RT. As above, but in "rall $100^{\prime \prime}$. Nef 58.75
Shpg. wt.. 9 lbs.
6.46 Dawn Net 4.63

## MODEL 262 V-O-MILLIAMMETER

Similar to above in function and operotion but of lowe sensitivity - 20,000 ohms/v. DC; $\$, 000$ ohms/v-A.C. Ranges: D.C. voltage 0-1.6-8-40-160-400-1600-4000 v.; A.C. valtage $0-3=8=40-160-800 \quad v_{\text {i }}$ AF output $0-3-8-40$ 160 v. D.C. Resisiance 0.500 ohms 14.5 ohms center) $-5,000-50,000,-500,000-5$ megohms -50 megohms. D.C. current $0.80-160$ mieroamps, $0-1.6-16-160$ milliomps; 0-1.6-16 omps. Dimensions 7-5/16" $\times 6^{\prime \prime} \times$ $2-5 / 16^{\prime \prime}$. Comes with test leads, dlips, 4000 V D.C. multiplier, manval. Shipping wet. 6 ths.
TE-329 ..................... 5.83 Down
TE-329
NO. 0180 MI VOLTAGE PROBE, Emtends DC volioge of 58.8 Na Down NO. 0180 HI VOLTAGE PROBE. Ex
Madel 262 to 40 KV . Shog. Wi., 2 Ibs. TE. 330
. Net 9.75
NO. 5252 CASE. Vinyl case for Model 269, 262. Sizo:


Net 12.25

## OTHER SIMPSON EQUIPMENT

We carry a complete line of Simpson test equipment. Easy Down-Pay Plan $10 \%$ down, 5.00 Min . Orders filled

| Sloct Mo. | Simpen 46. | Descriplion | Shpg. W. | Net |
| :---: | :---: | :---: | :---: | :---: |
| TE.332 | 230 | AC.DC VOM | 3 | 27.39 |
| TE. 333 | 240 | AC.DC VOM | 3 | 28.37 |
| TE-334 | 303 | VIVM | 7 | 66.64 |
| TE-335 | 362 | Low.Ohmmeter | 4 | 24.45 |
| TE-336 | 372 | Ohmmeter | 3 | 27.39 |
| TE-337 | 382 | Moriz. System Analyzer | 12 | 68.55 |
| TE-338 | 385.31 | Temp. A.eter | 3 | 33.27 |
| TE.339 | 387 | Mthivoltmeter | 3 | 29.30 |
| TE-340 | 388.31 | Therm-O-Meter | 6 | 63.21 |
| TE. 341 | 389.31 | Temp. Meter | 6 | 61.25 |
| TE-342 | 390 | AC-Voll-Amp.Wotlmaten | 5 | 43.07 |
| TE.343 | 391 | AC.DC Volt. Waltmeter | 3 | 34.25 |
| TE.344 | 392 | AC.DC.Volf-Wattmeler | 3 | 37.19 |
| TE-345W | 430 | Color Bar Generotor | 26 | 387.10 |
| TE-346WX | 434A | Varidat Generator | 14 | 144.55 |
| TE-347WE | 458 | 7 - Color Scope | 29 | 225.35 |
| TE-348WX | 466 | Handiscope | 24 | 142.05 |
| TE-349WX | 479 | TV.FM Sig. Gen. | 29 | 318.50 |
| TE-350W\% | 498A | Fiold Strength Meter | 18 | 195.95 |
| TE-35 WX | 1000 | Tube Tester | 19 | 132.30 |

## MODEL 820 "CADDY PAL"

## - tueg ano crt tester <br> - VTVM - ohmmeter

Here is o new idea in test equipmant. The "Caddy Pal" was engineeled for the T.V. serviceman, ond is designed to be carried in the lube coddr. I' periorms oll the functions which proviouily reauired several instruments. The fube-mester section emplays 11 sockets, ond pertarms the critical "fringe tests" of gas, grid emision, contact polential, leakage and shorts. Healer voltoges of 2.19 volts are supplied, ond provisions for $150-300-450-600$ mll tubes, plus harizontal ond vertical deflection typer ond piliure tubes are olso included. All reodings ore mode directly on the mater through o V.I.V.M. circuit. There are no relative indicating devices, and no guass work. The socket is a "remavoble reploceobie the yacuum tube yoll moler ohmmeter section reods 1.5 to 750 volts in four overlapping ranges designed to ploce most common volpoges of the center of eorh ronge. Readoble to 0.02 volts. The ohmmeter is composed of three nesisfonce rangen which cover 1 ohm to 100 megohms. The 820 trensistor checter costs both PNP ond NPN and features higmly occurate tests both PNP ond NPN and features higily accurate Individual rests for both high and low power types. The
bulti-in power supply eliminales the Inconveniance of bulit-in power supply eliminates the Inconvenience of
questionable battery life, and time consuming replocequestionable battery llfe, and time coniuming replocemonn. The "Tube Caddy"s" professional oppearance im. you from the implited hobbyist class. Cose is enomeled steat and meosures $3 \mathrm{~K}^{\prime \prime} \mathrm{H} ., 8 \mathrm{y}^{\prime \prime}$ W... $6^{\circ}$ D. Ponel is grey
 All occessories including graund leoo, test leod, fest probe a
TE-270wx
9.95 Down ................ Net 99.5s

Model 615 Sweep and Marker Alignment Generafor
Here is o complete singlo-unit block ond white or color Excellent oftenuation and sweep lineority. Amplifude Excellent oltenuation and sweep lineority. Amplifude modulation less thon $0.1 \mathrm{db} /$ megocycie, ond occurocy of 0.25 v.r.m.s. frequency 2 2.5-55 mc, 19.50 mc , $54-108$ mc , ond harmonic $108-216 \mathrm{me}$. Vorioble sweep width, 0 . 15 mc . Built-in 4.5 me crysfol provides dual morkers for IF or RF allgnment, ond 4.5 MC signot for infercarrier sound olignment. 900 cps AM internal modulation possible. Also aternol sweep vorioble phosing. refroce blanking. Provision for iniernol morker mixing with FM $\times 181 / \mathrm{m} \times 8^{\prime \prime}$. For $110-120 \mathrm{~V}$. $50 / 00 \mathrm{cos}$. Shpg. wi., 39 lbs .
8E-273WX
34.00 Down
...Net 339.90

## Model 675A Wide Band Scope

Excellent trace ochieved by astigmotic focus control and iltuminated, calibrated streen. Flexible oltenuator and goin contrals. High vertical sensitivity: $20 \mathrm{~m} . \mathrm{m}$. $\mathrm{rms} / \mathrm{in}$. Wide bond, $1-4.5 \mathrm{MC} \pm 1.5 \mathrm{db}$., not through 3.58 mc . Pulse rise time $.08 \mu$ sec. Morizsntol response: $\pm 1.5 \mathrm{db}$, 1.450 K cps, with sensifivity $250 \mathrm{m.v}, \mathrm{rms} / \mathrm{in}$. Sweep fie quency, $10-100 \mathrm{~K}$ cps in 4 colibrated decode ranges with 10 to 1 vernier cantrol. 10 X time bose expansion passible with complete positioning facility. Provides input for Intensity (z-oxis) modulation, also polarity reversal swith ond internot voltage calibrator. For 105-125 v, 50-600 eps $13 \times 10 \times 16^{\prime \prime}$. Shpe. W1., 43 lbs.
TE-274WX ................ 301290.00 TE-275 Tyop 35 Crystal Prabe for Signol Trocing, 100 modulation) with \#675A. Shpe. Wt., 2 lbs........Noi 6.25

## HICKOCK TEST EQUIPMENT IS AVAILABLE ON LAFAYETTE'S EASY PAYMENT PLAN - SEE PAGE 302



MODEL 440 CRT REJUVA TESTER
Most widely used today by service lechnisians. The de luze alf-in-an portable 440 gives you more volue thon ver. Quickly checks ond corrects block and white, color pictur lube raubies in a fow minutes winhout remov ing iube fram set. Terfs and reiuvenotes all picture lubes of correct flloment voltaget from 1 to 12 volts, includ ing new 2.34, 2.68 and 8.4 vall fubes, new $110^{\circ}$ fubes Chects and corrects each gun of color tube seporately. Giver now useiul life to weak or inoperotive picture tubes. Restores emission ond brightness. Checke leokoge. Nepoirs inter element shorts and open sircuits. Life Jest checks oas contont, and oredicts remoining useful life of the picture tube. Grid cut-aff reoding indicates the picture quality. Gives quick reading of o glance. Mosi4h" plastic moter. For $105-125$ velfs, $50 / 60$ eps. Size: $14 \times 8 \times$ 4\%". Shog. wi. 12 lbs
TE-570
6.86 Down

Net 68.55

## B\&K MODEL 750 CALIBRATOR

Stop losses due to inaceurote instruments. Check and odiust your test instruments with loborotory accuracy. Calibrotes VO.M's, VTM's, ohmmetors, mifliommeters, signol gener. ofors, sweep generotors, morter generaters, oscilloscopes by providing stondord de and oc voltoges (DC-2, 5, 25,
100 ond 300 volls: $A C-5,25,100$ and 300 volts $+1 \%$ 100 ond 300 volls, $\mathrm{AC}-5,25,100$ and 300 voltis $\pm 1 \%$ or beiter). Providos stondord reisisionses: $10,100,1000$,
$10,000,100,000$ and 10 mesahms olso envial axillotor for goneroting wall over 300 mC with oceurocy of $1 \%$ ond bult-in tone generator for oudio checking. Sizel $8 \%$


## MODEL 1070 DYNA-SWEEP CIRCUIT ANALYZER

Invaluable in ony service shop. this Instrument simpllities servicing, saves lime and work. Focilitates ropid checks in the sync and sweop sections of a TV receiver. Checks for sharted furns, leokoge, opens, short circuits and cantinuity. indicotor lights quickly pin-point and reveal hord-to.find traubles in the oulput tronsformer or the high-valtage nelwark. Also aermits direct vertical plate drive infection and vertical vahe test. Provides plot drive sipnat for ond vertical output stoge to chect comolet drive signal for including $V$ O transformer. Provides herizoniol circult, driving signol to transformer. Provides harizansol plate driving sipnol to directly drive TV harizontol outpul tronsformer circuit. Hos $8+$ boost indicotor. Sizo $91 / 2=$
$7 \times 5 "$. Shos. Wi., 11 lbs . $7 \times 5$ ". Shog. Wi.. 11 lbs.
TE-576. ................ 6.86 Dawn

Net 68.55

## MODEL 1075 TV ANALYST

## The 1075 N Anolvit provides practicalty o complele T

 service thop in one cosy-lo-use instrument with unique point-to-point signol-injection technique. Generoter r.f. for TV chonnels 2.6 and 7.13 , ond covers i.f. range frem 25 me to 45 me . Provides oflying spot scenner for gener. ating complete video signols, such as O TV test patfern Pravides separate vertical and horizantel driving pulses for trouble-thoating deflection circuits. Stable test signol Injection quickly pin points the trouble pol Generotes white dot crosshatch and color bor poiterns on the TV screen. Has o completa 4.5 me froa motulated sound syitem with 400 cycle tane generotor All these signols ore ovailable on the front panel for rapid signel subnols iulion. Comes with 6 fi panel for rapid signal substiFor 110.120 y 50.60 ... cable sisen 161 V sobles for 110.120 V., 50.60 cycle o.c. Size $16 \%=10 \%$. TE-573WXNet 254.75

## MODEL A1O7 CIRCUIT ANALYZER

All the features of the Madel 1070 described on this page, but is not self conteined. Use Madel 1075 for


## MODEL 675 AUTOMATIC DYNA-QUIK TUBE AND TRANSISTOR TESTER

This compoct, lightweight, and portable tester gives labaratory-accurat test. Tests each section of multiple lubes separotely for Cm, shorts, grid emission, and life. Tests eoch lube for pos contont and grid emission simul toneously with short sheck. Provides instantensaus heoter continuity lest Provides simplified automatic Daya.Cerd systom to test over 600 tube tyees. Each Dyno-Card identified, indexed, and ready to use. Checks over $90 \%$ of the lubes most widely used in TV receivers, ond rodios Ironsistor section whecks used in IV receivers, ond rodios Transistor seclion checks iunction, point cantoct and bar. ond sillican restifiers. Has and sillcon diodes, selenium PNP tyoe transistors shows tube candieion on "Cood ond PNP TVDe Iransistors. Shows tube candition on "Good. Bad" scole and in micramhos. Large $4 \mathrm{~K}^{\prime \prime}$ meter hos 2 highly oncuroteranges, 7 opin and $9 \cdot p i n$ sitroightenert ore mounted on ponel. Automatic line compensollon and special bridge monitars line volfoge cantinuously. In lectherette-covered corring case. For 105.125 V ., 60 cycle AC. Size $15 \%$
צ $12 \%$ E $6^{\prime \prime}$. Shpg. wi.. 13 lbs.
TE-572WX.......... 16.75 Down

## MODEL 1075 ACCESSORIES

 SLIDE TRANSPARENCIES

Makes tests under the actual dynamk operating conditians of the TV 1et. The now " 550 " moasures true $d y$ namic mulual conductonce with loborotory eccuracy. Tests tubes for shorts, grid emission, gos centont, ond leothago. Shows for shorts, grid emission, gos contont, ond leothage. cromhos. Most commonly used tube lypes, with settings, cromhos. Most commonly used tube types, with sotlings, are listed directly on socket panel for fostest aperation Convenient, complete referance chart in cose. Autamotic line valtoge compensolion. 7-pin and 9 -pin straighteners on ponel. $4 \frac{1}{2 \prime \prime}$ plastic meter. Far 105.125 V., $50 / 60$ cycle $A C$. In Iuggege type cose. Sizoz $15 \% \times 15$ \# $6 \% \%^{\prime \prime}$. Shpe W1., 18 lbs.
TE. 577 WX

### 11.76 Down

117.55

## B\&K NEW MODEL 650 TUBE TESTER

This new Model 650 Oyno-Quick is o most complete portable dynomic mutual conductonce tube tester ond transistor tester. Tube section will test $99 \%$ of all tubes in use-and complete the test in o motfer of seconds. Will olso test eoch section of a mulliple lube separately. Condifion shown on "Good. Bod" scole and in $41 / 3$ " seale aceurataly colibratod 0.6000 or $0.18,000 ~ u \mathrm{mho}$ scales. Trensistor section lests iunction, point cantact and barrier transistars, germonlum and sillcon diodes, selenium ond sllicon nectifiers. Hos seporate sockels for NPN and PNP types. Ho. morkably campaci and porlable. Size $15 \frac{1}{} \mathrm{~m}^{\prime \prime} \times 15^{\prime \prime}$ $6 \mathrm{~K}_{2}{ }^{\prime}$. Shpg. wi., 22 lbs.
JE.578WX
Nol 168.55

## PHAOSTRONVOMS



PHAOSTRON 355 A

## PHAOSTRON 555A VOM

This oxperily designed mulitmeter has double magnetie shielding for ontreme occurecy. feotures 4 large easy-torecd color scales on a $4 \%$ " scale; mater movement pratoction up to toce times overload; separate Range and function switches; $3 \% \mathrm{DC}, 4 \% A C$ permanent accuracy. Sensi. tivity: 20,000 ohms per volf DC; 2000 ohms per voll AC. AC curfent rangesi 0.1.5.5.15-50.150-500.1500 mo. ond 0.15 emps . OC current ranges: 0.50 .150 .500 microomps. 0.15 amps. OC curreat ranges: 0.50 .150 .500 micraomps,
$0.1 .5-5.15 .50 .150 .500 .1500 \mathrm{mo}$, and 0.15 amps . Resist. $0.1 .5-5.15 .50 .150 .500 .1500 \mathrm{mo}$, ond 0.15 amps . Resist.
ances $0.1000 .100,000 \mathrm{hms} ; 0.1 .10 \mathrm{megohms}$. AC and OC ances $0.1000 \cdot 100,000$ ahms; 0.1 .10 megohms. $A C$ and $O C$
Valis: $0.1 .5 \cdot 5.50 .500 .1500$. Metal caso with die cost

TE-58S
TE.586-Genvine leather Dose for 553A it Net 53.85

## MODEL 666 VOM

Delune VOM is fused to prevent most cammon burn-outs and instrument damage. Hos complote metor movement overlood protection. DC Voltmater: 7 ranges from 0.1500 $V$ full seale; sensitivity 20,000 ahmi $\mathrm{N}_{\mathrm{i}} \pm 3 \%$ full scale occunacy. AC Volimelar: 7 ranges fram 0.1500 V . full seale. Sensifivity 2,000 ohms $/ \mathrm{V}, \pm 4 \%$ fult scole occurocy. OC Current Mater: 11 rangess from 0.500 mieroamps, 0.15 mo ., and 0.15 omps full scoles $\pm 3 \%$ full scole occurocy. AC Current Moler: 8 rangen from 0.1500 mo.s 0.15 omps. full scole; $\pm 4 \%$ full wrom occuracy. Ohm meler: 4 renges $\rightarrow$ \& $\times 1$. $\equiv 100, \times 1 \mathrm{~K}$. it 10 K . Decibel meter hos 6 ronges. Complete with bot. torles, power card, probee, and toother sarrying case. tories, Dowor card wrobes, and loother


# DOSS-AMPROBE AND SELECTED TEST EQUIPMENT doss electronic test probes 


D. 100
(1)
0. 2007
$=\frac{1}{2}+5$
D. 500

0.600


- 700

D. 400
O. 100 SWEEP ANALYEER PROBE - An extramely smoll ilifiers of uriming bo or leakages in flyback, ausili doriects horizolvi transformers, power and oudio tronsformers. deflection windingl. Takes the and oudio tronsformers, ond mator winding1. Takes the guesswork out of TV servicing, oliminoter the necessity of substifuting yokes ar tronsformers for "doubtful" parts. Eliminotes the costly stocking of Unnesers
De600 ELECTEOLITIC SUBSTITUTE Designed to shunt fent oll electralitic capocitars on two ranges ( 10.40 MFD .450 V ) ( 50 MFD \& UP-450V). A Unique now circuit allows the test to be accomplished without the chorging surge which often heals the defective electrolitic temperorily, thus destroying the test. Neon indicator identifies when D. 600 is reody for tosting. Hondy thumb switch selects all functions. TE-593 .................... Shpg. wi., I lb................ Not 8.95


Amprobe meters measure $A C$ current ond $A C$ valtage without breoking the circuit. To measure current, snap the trigger-operoted lows around single conductor. Metor instontly indicates correct reading. Uise furnished sofety leads for voltoge measurements. Rotory scele shows only icale in use. Pointer lock "freezes" pointer for subsequent reading of indication. Recessed selector hnob permils one hond aperation. Insulated jaws and insuloted core provide extre protection. Accurate to $\pm 3 \%$. Designed for 80 cyclo circuits. Hove Impoct-proof cases, unbreokioble plos. tic mognifying mater windowí Use printed cirevit desion. self-shielded meter movement. 5hpg. wt., opprax. 2 lbs . AMPROBE $\mathrm{B} 5-1$ feoturei six renges: AC AMPS: $0.5-15$ 40.100 . AC. Volts $0-150-600$. Measures up to $11 / 14^{\prime \prime}$ dio. conductors, to $11 / 1^{\prime \prime}$ a $1 / /^{\prime \prime}$ bors. $73 / 33^{\prime \prime}$ long, $2 \%^{\prime \prime}$ wide. $1^{\prime \prime} / 12^{\prime \prime}$ thick. Scole lengit $21 / \mathrm{k}^{\prime \prime}$. Includes genuine toparain cowhide leother cose. Shpg. wt., 2 lbi.
TE-607
5.00 Down

AMPROUE JUNIORS-Lighter duty, smoller versions of slondord Amprobes. Will measure up to h" dio con ductors. $4 \%^{" 1}$ lang, $1 \%{ }^{\prime \prime}$ thick, $2 \%^{\prime \prime}$ wide. $1.8^{\prime \prime}$ lang scale. Rugged canstruction with ribbed, non-slip case. Shpe. wt 1 Ib . for so erclo AC.

| $\begin{aligned} & \text { \$1OCK } \\ & \text { NO. } \\ & \hline \end{aligned}$ | MODEL | AC AMPS | AC VOLTS | $\begin{aligned} & \text { MET } \\ & \text { PRICE } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| TE-613 | $Y 10$ | 0.10 | 0.125 .250 | 19.85 |
| TE-614 | Y25 | 0.25 | 0.125 .250 | 19.85 |
| TE.615 | Y50 | 0.50 | 0.125 .250 | 19.85 |
| PE-616 | $Y 100$ | 0.100 | 0.125 .250 | 19.85 |
| TE-617 | $Y 525$ | 0.25 | 0.150 .600 | 19.85 |
| PE-618 | Y550 | 0.50 | 0.150 .800 | 19.85 |
| TE.619 | Y500 | 0.100 | 0.150 .600 | 19.85 |

MODEL A-40 A AMPROUE ENERGIZER-PORFORS 3 funcHionst By connecting between oppllionce being rested ond Dower source. the "Energizer" "spliti" two conducto cobles, permilis clomping of jows around one conductor Current con be measured either directly or with a 10x increased sonsitivity for preclise reading: on small appll ances ond motors. It has receptacles for connacting to volimeter leods, thus meoluring voltoge under full lood conditions. Shpg, wt., $1 / \mathrm{lb}$.
TE-620
MODEL A-50 DECA-TIAAN-Designed to be used with ony amprobe. It extendi omperoge readings by 10 times. For exomple, by using the A. 50 in canjunction with a model RSI, you con obtoin an actual current reading of 1200 full amperes. More then fills requirements of all normol and mott speciol purpose applications. Wh., 3 lbs. TE-621
5.00 Down

Not 24.75
MODEL A-50.1. Furnished with a two foot line sard for remote readings. Simitar to A50, except that the faws of the amprobe are clamped aver the square odoptor of the and of the line card. Shpe. wl., 3 lbs.

## TE-622

## SHELL FIELD STRENGTM-

## MODULATION METER

Extra versolite fiold strength-modulation meter for all troes of omoteur as woll as commarcial une. Tronsistarlied omplifior ond high.e tuned circuit permit, effective operation up to 300 feet from tronsmitter. - cells supplled cover 2.7 MC to 148 MC. includes sensitive meter; con be used for corphane checting. Retractable 38" tenna. Self-powered with enclesed on terlas. 5hpe. wi., $21 / 2$ lbs. Sizes $34 / 4$ $61 / 4^{\prime \prime} \times 2^{n}$
5hell ITS-3 FS Modulotion Meter
TE-60S
0.500 SLAVE OSCILLATOR-Contains two "ulove" as cillators: - horizontol sweep ascillotor, ond a verticol Elitep oscillator, orranged in prabe instrument fare. Elther may be quickly substituted for the TV recoive's own oscillater. The Probe cantains a Harizontol Held cantral, Vertical Hold contral, Vertical Size contrat and Sync Control lock. Isolotes sweep and sync troubles in record time and with minimum effort. Shpg. wt. . 2 lbs
TE-591
Net 19.95
D-400 Hi Leak Analyzer-opalies 100 volts $O C$ to cam ponent being rested. Quick checks copacitors for ony con dition of lookoge or open circuit. Tests leakoge up to 500 megohms in any capacitar within range of 0 to 1.0 MFJ . Tests leakage up ta 500 magohms between cothode and filament of tubes os well os between primary and second. ary of if transformers. flyback transformers ate TE-595 ............... Shpg. Wi., $11 / 2 \mathrm{lbs} \ldots . . . . . . . . . . . . N e t ~ 12.95$
 <br> \section*{DOSS <br> \section*{DOSS <br> PIONEER 250 HORIZONTAL SWEEP ANALYST}

- perfolms oven 20 TESTS

The anly instrument ever designed ta moke o dynamic, quantifotive onalysis of the entire horizonlal sweep system All tests ore made while the set is in operotion. The necessity of removing the chossis is eliminoed for the 250 plugs directly Into the horizontal domper and outpul tube sockets. All lests are orranged systematicolly to es. pedife the Isolation of component fallurematicolly to ex pedife the liototion of component fallures. Performs all the following testis Horirantal cathode cantinuity, horizontal screen resistonce, cathode resistonce, capacitor loakage, horizontal sereen valtage, horizontol ceihoce vollope, horizont ol heater volioge, damper heoter volloge. oscillator output volloge, horizontol oscillator frequencr. -f. fipple, horizontal amplilier emission, gos or screan re-amission, $D C$ dife, flybock and yoke match and test. yake inductonce. Meter diso reads $0.1000,0.50,000$. .500 K chms, and $0.100 \mathrm{VDC}, 0.1000 \mathrm{VDC}$ ond 0.150 VAC on 10,000 ohms per volt meter. Shpg. wi., 8 lbs TE-S96WX
11.00 Down …….........Net 109.00


## CORNELL DUBILIER <br> drcade soxes

## capaciroll decades

Relioble units for circuit capoc tonce iniertion. Decades may be used singly or in groucs of twa or more. All units ore reted at 600 vaits $D C_{3}$ and 220 volts AC. No.'s TE 601-602-603.404 us oil imbued paper copocitors; TE- 600 uses mico dielectric capocitars Talerance: TE-602, $604 \pm 3 \%$ /TE. $600,601,803 \pm 5 \%$ Sire: $3 \% \times 5 \times 31 /$. Shpg. wt., 4 lbs.

| Stock \# | Mfy. trpe | Range Mid. | Mild. <br> ssep | Ne1 |
| :---: | :---: | :---: | :---: | :---: |
| TE.600 | CDA-5 | .0001- . 011 | . 0001 | 12.25 |
| TE-601 | CD8. 5 | . $01-1.1$ | . 01 | 12.25 |
| TE-602 | CDS-3 | . $01-1.1$ | . 01 | 14.53 |
| TE-003 | COC. 5 | $1.0-10$ | 1.0 | 21.51 |
| TE-604 | COC-3 | $1.0-10$ | 1.0 | 23.71 |

## RESISTANCE DECADES

Naw you con insert 1 to $1,100,000$ ohms into a circuit if steps of one or more ohms. Eoch decode holds 110 possible resistences which ore cosily switchoble by using the twe hondy ratory fype switches. Uniti con be used individually. or In series of two or threes. Shpg. wt., 3 lbs.

| s7ocx | $\begin{aligned} & \text { mfo } \\ & \text { pype } \end{aligned}$ | Ronge Ohms | Ohws/ Step | Not |
| :---: | :---: | :---: | :---: | :---: |
| TE-623 | RDA | 1-110 | 1 | 13.08 |
| TE-624 | RO8 | 100-11,000 | 100 | 13.47 |
| TE-625 | RDC | 10,000-1.100,000 | 10,000 | 13.47 |

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## )




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PLAN - SEE PAGE 254

NEW! TRANSISTOR CIRCUITS

## OVER 150 PRACTICAL CIRCUITS

## SOME OF THE HIGHLIGNTS


#### Abstract

Audio Ampllfers - RF and IF Amplihers : DC Amplifers. Oscillotor Power Supplies. Rodio Receivers Triggers and Swltches . Control Devices. Test Instruments. Amoteur Devices. Miscelloneaus Circults including Gelger counter, phono oscillater, hearing ald, and intercom. Tufus P. Turner, poputor transistor outhority and engineer, fakes fronsistors out of the loborotory and puts them on the work bench. He hos collected over $15 Q$ proctical circuits for ompllfiers. oscillators, power supplies, omotevr equipment ond other units. All were desipned by experts-some by the cuthor himself. All were tested in the outhor lobaratary-and all of them work' No watering down with transiltor testing or theo. refical emplanotion elrevitst This book offers a treasure chest of buitding blocks which of :uses other thon those originally suggested. No one whe works with fransistors of


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Made from one piect of steel or aluminum．All corners rainlarced and spot welded． 4 Sieel chassle ore 20 gouge，encept $t$ are 22 and are 18 ．Alumlnum are 18 alum． gauge except $f$ are 14 and are 18．Andicotes punched for chossis maunling brockets．


## OPEN－END CHASSIS

 tion with ends falded over $\%$ ，for additional sirength．Specially odaptable to various ityles and ires of Bud cobinets listed below

| $\begin{aligned} & \text { Bed } \\ & \text { Ne. } \end{aligned}$ | $\mathrm{D}_{\mathrm{D}} \text { Izo Inemer } \mathrm{H}$ | WI． <br> Lbs． | 1－24 | 18－49 | 50.89 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CB．38 | 7x12 | 1\％ | ． 2 | ．ee | 78 |
| ce． 30 | 587814 | $1 \%$ | ． 05 | es | ． 76 |
| C8－41 | 7 F 514 | 14 | 1.21 | 1.08 | ．96 |
| C8． 39 | 7xinz | 14 | 1.14 | 1.02 | ． 1 |
| CB．est | 51458 | 12 | 1.07 | ． 6 | － |
| CE－27 | 7 自理玉14 | 14 | 1.37 | 1.24 | 1.12 |
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| C8．997 | 7 111814 | 1＊ | 1.27 | 3.85 | ． 2 |
| CB－998 | 781381\％ | 2 | 1.56 | 1.40 | ． 24 |

MINIATURE OPEN－END ALUMINUM CHASSIS Ideal far smal！amplifiers， ascillators and miniature assemblies．Made of hard on bottom for chasis to be fastened down ar for shipping wi． 8 gz ．

| $\begin{gathered} \text { 日UD. } \\ \text { MO. } \end{gathered}$ | $\text { SIZE } W \text { WCHES }$ | 1.24 | 29－45 | 30.98 |
| :---: | :---: | :---: | :---: | :---: |
| CS． 1823 | $2 \%$ 2\％ 1 14 | 37 | 13 | ． 2 |
| C． 1624 | 1\％ $5 \%$＝${ }^{\text {\％}}$ | .41 | .37 | ． 33 |
| C8．1625 | $31 \times 4 \%$ 年 | ． 47 | ． 42 | ． 37 |
| CB． 1628 | 2\％ 514 y | ． 44 | ． 36 | ． 35 |
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Made of 16 gauge stel for use where extra strength is required．Furnished complete with bottom plates．Avalloble zinc plated or bloct wrinkle finizh．

##  <br> BOTTOM <br> PLATES

For use with obove chassis boses．four bosses provent os from scratching．Shipping wh．average 2 lb
Mode of steel．Zine plated or block wrinkle finish． 0.08100 .149

| Fite | 2／me．Plate |  |  |  |  | Bicelt Wrimike |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Bed Ns． | $1-48$ | 50－0 | 100．849 | Bud Me． | 1－48 | 50．99 | 100－149 |
| $5 \pm 7$ | 8P．706 8P． 47 | ． 68 | ． 61 | ． 34 | 8P． 705 | 5 | ． 30 | ．45 |
| $5 \times 10$ | 8P－538 | .75 | －6 | ．58 | BP．600 | 18 | ． 55 | ． 4 |
| 717 | DP－E5 | － 7 | ．es | ． 78 | 8P－ 536 | ． 68 | ． 38 | ． 33 |
| $7 \times 9$ | 8P－66 | .96 | ．es | ． 76 | 8P．Cst | ． 0 | － 8 | ． 73 |
| 7811 | BP－670 | 1.05 | ．es | ．84 | 8P－682 | －2 | ． 13 | ． 73 |
| 7812 | BP－539 | 1.00 | ． 0 | ． 8 | BP． 537 | 97 | － 7 | ． 74 |
| 7113 | BP． 371 | 1.18 | 1.08 | －8 | 8P．884 | 1.00 | －80 | －78 |
| 5x1314 | 8P－672， | ．88 | 0e | ． 76 | BP－585 | ． 82 | ． 74 | ． 0 |
| 8817 | 8P．1067 | 1.05 | 84 | ． 8 | BP－1060 | ． 82 | ． 74 | ． 66 |
| 8 7 17 | 8P． 673 | 1.34 | 1.28 | 1.08 | EP－686 | ． 88 | ． 79 | ． 71 |
| 8810 | 8 BP 708 | 4.03 | －2 | ． 2 | BP－797 | ． 90 | ． 1 | .73 |
| $8 \pm 12$ | 8P．710 | 1．31 | 1.19 | 1.05 | BP．709 | 1.04 | ． 83 | ． 03 |
| 10912 | BP．675 | 1.51 | 1.36 | 1.21 | 日P．cs | .3 | － 04 | ．74 |
| 10814 | BP－S 14 | 1.30 | 1.18 | 1．23 | GP．68 ${ }_{\text {BP．}}$ | ．93 | ． 81 | ． 74 |
| 1017 | BP． 676 | 1.56 | 1.40 | 1.25 | BP－6es | 1.28 | 8.15 8.08 | ．88 |
| 11817 | 8P－77 | 1.56 | 3.40 | 8.25 | BP．600 | 1.18 | 8.08 | ．8 |
| 1817 | BP． 678 | 183 | 1.65 | 1.47 | BP． | 1．t8 | 2.12 | 1.00 |
| 13817 | BP． 678 | 2.20 | 3.88 | 1.78 | EP． 692 | 1.44 | 8.28 | 3.18 |

## 

## MINIATURE UTLLITY CABINETS WITH ATTACHED CHASSIS

Smoll cabinets with chassis attached to frant panel．Front and rear ponels ore remavable and fastened with self－tapping screws．Slack

| Bud Me． | She tremes <br> H：W： | Chasels： Sine | wi． <br> 4h | 1－49 | 50.95 | 100． 14 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C． 1793 | $4 \times 4 \times 2$ | 123\％ $21 \%$ | 14 | 1.31 |  |  |
| c． 1794 | 485z2 |  | 14 | 1.45 | 1.30 | 8.16 |
| C．1795 | 52433 | 143342\％ | 13 | 1.59 | 1.43 | 1．27 |
| c． 1796 | 65．5x4 | $1 \% 5453 \%$ | 21 | 1.67 | 1.50 | 8.33 |
| C－1797 | 5x6z4 | 12554＊3\％ | 81 | 1.88 | 1.70 | 8.51 |
| C． 1798 | 6x6s 6 | 1\％84\％ 5 \％ | 34 | 2.13 | 1.1 | 1.78 |



## DELUXE CABINET RACKS

16 sove steel with welded joints and reunded corners．Recested hinged doer in top．Units mapted also have hinged rear door．Louvered sides and



## BUD BOXES AND CASES



## BUD RELAY RACKS \& ACCESSORIES



## RELAY RACKS FOR EVERY NEEDI

Stundily ronstructed of 18 DELUXE WCKS_FIG. A
Lousered sidea and doof, Ruunded comere. $7 / 84^{\circ \prime}$ recested panel mountiag supports Drilied and tapped for ail atendard $19^{\circ}$ paneia. Complete with hordwart less castera.


## 



## STANDARD

RACK PANELS
 SUPER DELUXE 2 DOOA RACKS WITH ADJUSTABLE PANEL SUPPPOLTS
 batt to up to $6^{\prime \prime}$ in $1^{\omega}$ alepa. Thlo enables use of space in front ar behind panel it Anith imaliable on cray wrinkle fintah. Rick wrintile or light tray hammertone


TELEPHONE TYPE 尚ELAY WACKS FIG.
 finish.


A unique method of adding mop-A-iACK SENiES
 door and coupling panel. Ry replacing elther dide pasel of the deluze racti with the rark is formed. Additiona! units ean be maded later, Fislabes panel double sized Racks. Other finighei avallable. an be added later. Fialshes are mom is Duse






SWIVEL TRUCK CASTERS-FIG. Hard rubber, ball bearing mounted, heary duty type for relas racte. Shpe. Wi.. 100 os. BUO RC. 7758.1 .40 Ea. 7. 100.1 io

## VENTILATING GRILL PANELS

 Recammended as a substitute for solid ponels where abundant ventilation is required. Made of $\mathrm{H}_{\mathrm{n}}$ " steet with die eut grill. Standord $19^{\prime \prime}$ length.
.81

CHASSIS SUPPORTING ANGLES-FIG.
for heavy chatsis or shelves. $14 \mathrm{~h}^{\prime \prime} \mathrm{L} \mathrm{I}^{\prime \prime} \mathrm{W}$. Block enomel. With mig. hardware. Shpg. wf., 5 lbs nuo No. Nxwno w7 $1.24 \quad 23-49 \quad 50.99$


TRIANGULAR PANEL BRACKETS-FIG. $G$

 STEEL RACK SHEIVES Hebry gauge, black enamel. 19" W 天 $1^{\mathrm{m}} \mathrm{H}$. Requires supporting ingles listed etore.


Availoble in black wrinkle (B), gray wrinkle (G) or light groy hammertane (HG). Pleose specity when ardering.

| Buo no. | meight | Grill sles | weisht in tos. | 1-4* | $\mathbf{3 0 . 9 9}$ | 800.148 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ps.t08 | 54." |  | $21 / 8$ | ${ }^{3.18}$ | 2.87 | 2.38 |
| Ps. 818 | $8{ }^{\text {810 }}$ |  | $31 / 8$ | 3.47 | 3.13 | 2.78 |
| Ps-811 | 1012" |  | 5\%, | 8.82 | 3.818 | 3.14 3.34 |
| Ps-812 | 124* | 744" $\times 13.13 / 32 m$ - | $61 / 4$ | 4.74 | 4.27 |  |
| -Allow | - for | mounttog. |  |  |  |  |



## HANDLES

Useful for otfoching to ony smoll heusing or soooker enclosure ta achieve portability. Made from oluminum fubing ond given on etched finish.

| Cetalo: No. | Overall <br> Lencth | Moumine Hole Center | Weight <br> in Ons. | 1-4* | 30-80 | 800-148 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { UN-70 } \\ & \text { UH. } \end{aligned}$ | $\begin{aligned} & 54 /{ }^{\prime \prime \prime} \\ & 3 \mathrm{n} / \mathrm{N} \end{aligned}$ | $\begin{aligned} & 84 \prime \prime \prime \\ & 34{ }^{\prime \prime \prime} \end{aligned}$ | 2 | . 35 | . 32 | $.28$ |

Page 210

## LAFAYETTE PROFESSIONAL QUALITY COMMUNICATIONS <br> RECEIVER - ENGINEERED FOR THE AMATEUR

(2)

Superheterodyne Circuit Utilizing 8 Tubes \& Rectifier Tube<br>- band spread for easy tuning<br>- built-jn "s" mejer with adjustment control<br>- excellent selectivity<br>- accessory power socket provided<br>- all trimmers pre-aligned<br>- COVERS 45 SKC. to 3ImC. IN FOUR bands<br>- variable bfo and rf gain controls<br>- built in pre.callbrated "s" meter<br>- switchable avc and automatic noise limiter<br>- All MAJOR COMPONENTS PRE-MOUNTED<br>- DUAL 4 AND 8 OHM OUTPUT IMPEDANCES

High sen iliviry superheterocyne circult utilizes 8 miniafure tubes plus nectifier lube and tronsformer input, Hull wave rectifier. The $80 \cdot 40-20-15$ ond 10 meter amateur bands ore clearly Indicated on the llfuminolec full wave rectilier. The $80 \cdot 40 \cdot 20-15$ and 10 meter amateur bands are clearly indicated an the lliuminalec
dial foce. and can be easily funed with the pre-calibrated band spread. The receiver has complele bond diol foce. ond con be easily luned with the pre-calibrated band spread. The receiver has complele band switching thus eliminating the need far bethersome plug-in colls. Band spread is loid out on eosy-toreod
 $14.5 \mathrm{MC} / 10.5-31 \mathrm{MC}$ ). All controls, switches ond phone jock ofe locoled on the front panel. $14.5 \mathrm{MCJ} 10.5-31 \mathrm{MC}$ ). All contrals, switches and phone jock ose localed on the front panel.
eecoiven sensilivily is 1.25 m icrovalt for 10 OB signol to noise patio. Selectivity is -6008 at 10 KC image Receiver sensiliviry ts 1.25 m icravalty for 10 OB signal to naise ratio. Selectivity is -6008 at 10 KC image rejection is -4008 of $3 M C$. Ponel is grey metal with white lettering, and controls are block with aluminum

KT- 200
HE-IO Some as above, lactery wired a iested.
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orronged. crssital controlled frequancies, with on occur ocy of $.005 \%$. Interchongeoble power supplies so tho ony unit can be odopted for elther 110 Voli AC power. or mobile operotion from 6 oi 12 volt cor bollery. Powe for mobile operation token from cigoretto lighter socket on dosh, to thot no complicolod underdosh wiring is re quired.
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The receiver ection contoins a J-fube crystal controlled superhat-odyn circull with J-shannel selectivity. No puning is necessory, chonnol selection whh simple switch and Iltuminoted iewel indicates shannel in use. Highost receiver sensif vity ond highost tronsmitter efficiency os no

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Enfornol specker with 15 f . cord and plug. Shpg. wit HE-60
12 Ho1 co..........................................................Net 6.95

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## MODEL SX- 100 SELECTABLE SIDE BAND RECEIVER

## - ofluxe amateur receiver - or am.CW and

 S5E OPERATIONDouble cenversion superheteradyne omoleur receiver. Coverage 540 KC to 34 MC in four callbroted bands. Selectable side band receplion of both suppresied and full carrier. Deloyed AVC. Callbrated bondspread. Guilt. in "S" meter. Tee-Notch Filter to eliminate unwonted heteredynes. Builf-In 100 KC crystol celibrator, and ontenno trimmer. Legging scale on tuning dial. Phone joct tenno trimmer. Lagging scale on tuning dial. Phone lock block steel cebinet with silyer and iten panol. Grev and top. Twelve tubes with silver and red trim, piana hinge
 wh. 43 lbs .
HE-109WX.................29.50 Down.....................Net 295.00

## MODEL S-107 BROAD BAND RECEIVER

Here's o receiver which covers 540 kc to 31 mc in four bonds, and 48 to 54.5 mc . on an additional high frequency bond. The 5.107 features a large easy-to-read sllde rule tyos, main tuning dial and separate electrical bandspread with 0.1000 logaing scole. 42 - 54.5 mic. band has individvol colibrotion. Front ponal contralsi, Main tuning and bond spreod funing, receive/stondby, band selector, AM/ CW, noive limiter, tano, sensifivity, on/of volume. Phane jack, headphone tip lack! and antenna Input terminals lo. coled in rear. Built in $5^{\prime \prime}$ speoker. Utilizes soven tubes plus one rectifier. Slurdy groy hammertone iteel cobinet with brushed chrome Irim. 117 V. 60 cycle AC. Size: $13 \not \%^{\prime \prime}$ wide $x 7^{\prime \prime}$ high x $87 \%^{\prime \prime}$ deep. Shpg. wi., $181 / 2$ lbs. HE-106WX ...................9.50 Down.....................Not 94.95

## BUY YOUR SWL AND HAN GEAR ON LAFAYETTE'S ECONOMY EASY PAYMENT PLAN

## MODEL SX-110 <br> AMATEUR-SWL RECEIVER

Superheterodyne recolver coveri 540 KC (broodcost bond) to 34 MC in four bonds. Feotures slide rule tyoe dial and electrical bandspread over the 10, 15, 20, 40 and 80 meter amateur bands. Sepporate bandspreod tuning con denser. Switchable erystal Miter and built-in " 5 " meter All centrols are on front ponel, and include main and band spread iuning, AM-CW swilch, sensitivity, BFO pitch, on/offtono, volume, receiver-standby, selectivity, crystal Alter-phasin'g, nolse IImiter. and headohane jackn. Gecelver uses either 3.2 or $\$ 00$ ahm soeaker. Anienno may be daublet, single wire, ground phane or beam type Uay be doublet, single wire, ground phane or beom type. Uillizes seven lubei plus ane rectifior 65G7, first IF amp, 6SK7 secend OHP OMP, OSC BFO and audio Omp, KK6GT, oudio 2 wath. Grey AN L.AVC.detector, 5 Y3 rectlifier. Oulputs 2 wath. Groy ateel cabinet with chrame trim. Size: $181 / 4^{\prime \prime} \mathrm{W}$ HE-108wx.
16.00 Down..

Net 159.95

## MODEL SX-62A ALL WAVE FM-AM RECEIVER

A most complete communications receiver, the $5 \times-62 \mathrm{~A}$ will give top performonce on any wove band, has every modern refinement known. Six ranges: 540-1620 Kc broodcost. $1620 \mathrm{Kc}-4.9 \mathrm{Mc}, 4.9 .15 \mathrm{Mc}, 15.32 \mathrm{Mc}, 27-50 \mathrm{Mc}(\mathrm{AM}-\mathrm{FM})$. 54.109 Mc (AM.FM). Audio is af hi.R quality up to 10 wotts, with 4 position tone control. Red dots Identify AM and SW centrals green dots for FM conlrols. Wide vision slide-rule diol, فine band lights ot a time. Circuits are temperature compensoted, voltoge reguloted; has six poritlan selectivity cantrol, front panel phene lock. Hat separate if and AF goin controls, 50.1 rotio tuning knab for fine funing, and AVC. ANL on BFO switches. Complement of 14 tubes plus ane rectifier and ane voltioge cegu. lator. Size, $20 \times 101 / 3 \times 16^{m}$. Shpg. wh., of 7 lbs . ME-10sWX less speaker........37.50 Down........Net 375.00

## FM COMMERCIAL RECEIVER

Standord madel of Hallicrofters' now FM receivers designed for police. Are truck, taxicab, roiliread, bui and other Industrial or emergency aperation. Fealures minimum drift, high signal to notse ratio, high sensitivity, stondby drif. high signol to notse ratio, high iensitivity, stondby mquelch system, low oscilator rodiotion, phene lip lacks for hoodphone operation. Employs 8 tubes plus rectifier to yield 1.5 volts oudio output to $5^{\prime \prime}$ P.M. speaker, on O vensotivity of $1.5 \mu$ volth. Has logging ${ }^{\text {acole }}$ ond service channel indications. Oporoter 105/125V. $50 / 80$ cycle AC or DC. Cames in oray iteal cabinots aliae $2 \% \times 7 \times 71 / 4^{\prime \prime}$. Shos. wt., 14 lbs.
ME- 10330.50 MC
.00 Down....Net 59.95
HE-104 Model 5.95152 .173 MC 6.00 Down Net 39.95

## MODEL S-38E NEW LOW COST RECEIVER

Holllerafteri economy model SWL recelver pulls in avarything on its highly sensitive AC-DC iuperhel circuits 4 lubes plus one rectiner, with $5^{\prime \prime}$ P.M. speoker delivering 2 woitsh AM.CW switch for folk or codo. COVERAGE. 4. BANDS, Standard Braodco tolk or codo. COVERAGE: BANDS, Stondard Braadcast and 3.5W bande ranging from 1650 Kc-32MC. Features large Overseos Dial, with specific forvign itations dofted 0.100 reporate bondipread diat. Alo covers pelice, oircraft, ship-10-shore and oll amateun bonds. Operater on $105-125 \mathrm{DC}$ or 60 crcle AC. Size $12 \% \times 7 \times 71 / 4^{\prime \prime}$. Comes in attroctive gror sleol cobinet with silver frame trim. Shpe. wt., 14 lbs.

## HE-100. <br> ...................6.00 Down <br> . Nel 59.95

 MODEL S.3日EM Receiver with mahagany over metal finish. HE-101...................................................... Down MODEL S-38EB Recoiver with bland over motol finith. HE-1026.00 Down.

Not 59.95

## MODEL S108

## WORLD WIDE RECEIVER

A recaiver designed for the SWL and the amoteur alike. Covers 540 kc to 30 me in four bonds. Features slide rule diol, ond colibrated bandspread on 10, 15, 20, 40 , and 80 meter amateur bonds. Receiver has ane IF and two RF stages. Front panel controiss main luning, bendspread fun. ing, bond wilector, pitch corntral, stondby/receive, AM/ CW, nolse limiter, an/of/tane, volume, headphone jack. Antonno terminals are locoted in the rear af the receiver. Utillies seven tubes plus rectifier: includes buill-in speaker. Grey stoel cabinet with brushed chrome trim. 117 V- 60 crcle AC. Size: $183 / 4^{\prime \prime}$ wide $\neq 8^{\prime \prime}$ high $\times 1014^{*}$ does. Shpe. wt., 32 lbs.
HE-10TWX
13.00 Down.

Net 129.95

## OTHER HALLICRAFTER EQUIPMENT

 R-AT MATCHING $4^{\prime \prime}$ PM Speoker for CW or speech recep. lian: responsei 300.2850 cpl ; 3.2 ahm Impedonce. for ure with $5 \mathrm{X} \cdot 100,5 \mathrm{X}-101 \mathrm{~A}, 5 \mathrm{X} \cdot 110$. Shpg. wh., $21 / \mathrm{l}$ lbs.HE- 112 MATCHING $7 \%$ " speaker for AM..........Net 12.95 R-As MATCHING $7 / 2^{\prime \prime}$ speoker for AM, CW or Music receplion-swlichable for voice or music reception. Shpg. W. 10 lbs. For wie with $5 \times-100,5 \times-110-5 \times 101 A$ ME- 113

Not 19.95 5X-1OIA SUPER DELUXE AMATEUR RECEIVER less speakME. Shpo. W1., 75 lbs.
HE-IIUWX ................ 39.95 Down...............Net 399.50 SR-34 TRANS CEIVER for 2 and 6 METERS. Complote with cave, antenna, and 6 \& 12 V tronsittarized powar supply. shog. wt. 34 lbs
HE-IISWX
49.50 Down
Net 495.00

HT-32A AM.CW-SSE TRANSMITTER. Covers 80 through 10 meters. Shpg. wf., 86 lbi

## HR-117WX. WT., 86 lbi

 hti3a linear kilowatt amplifier. Covers 80 thnough 10 meters, motches HT32A. Shpg. wt. HE-118wX79.50 Down

Net 795.00

## Nationalis receivers - MAMMARLUND RECEIVERS



## HAMMARLUND RECEIVERS

## hammarlund reciver ha- 100

Sensitivity and selectlvity ploce this receiver in the reolly "hol'" class. Continuourly tunoble from 540 Ke to 30 Me in four bands. Electrical bendspread tuning with dial morhings every 10 Kes on 80,40 and 20 moter bondss every 20 Kcs on 15 meter band, and every 50 Kes on 10 meter bond. O.multiplier permite cantlnuavaly voriable solectivity. Semilitivity of 1.75 mierovolp produces 10.1 signel-to-noise rello. Voltage regulated and temperature compensated. AVC on $Q F$ and If stages. 10 pube circuit vorlobie loading effects. For 105.125 volts. 50.60 cps . vorloble loading effects. For 105.125 volts, 50.60 cps . optional, $16 \%{ }^{*} \mathrm{~L} 9.7 / 16^{\omega} \mathrm{H}=9 \%{ }^{\circ} \mathrm{D}$. Shps. wt.. 33 lbs. MO. 100 Receiver less clocktimer.
HE-150 WX ……...... 18.90 Down .............. Net 189.00 MODEL HQ. 100 C . Receiver with elock. Shpe. Wt., 34168 ME-15 IWX ........... 19.90 Down ............. Nef 199.00 10 lbs .
10 lbs.
HE- 152 ........................................................................ 14.95 MEDEL XC. 100 . 100 KC erystal celibrator. Shpe. Wt., 3 Hes.

HAMMARLUND RECEIVER HQ-110
A 12 tube superhot receiver with dual conversion far
ercellent imoge reiection. Full diol coveroge of 6,10 , 15 , $20,40,80$, and 150 meter bands. Dial markings every 5 Kes on $20,40,80$ and 160 meter bends, every 10 Kc on 15 meter bonds every 20 Kes on 10 meter bonds every 50 Kcs on 6 meter band. AVC operates on RF ond 3 Kcs. Seporote steblilized BFO and lineap detector for SS8 and CW receptlon. Anfenna compensotor far looding effects of vorious antennos or belanced tronsmission line. Colibroted " 5 " meter. New series pype noise limiter Colibroted 100 Kc crystal collbrater. For $105-125$ volis,
 $50-60$
33 lbs. ME-154 WX ............. 24.90 Down ............. Net 249.00 HE-154WX........ 24.90 Down ........... Net 249.00
MODEL MO. 110 C . Peceiver with eloch. Shpg. Wh., 34 lbs. ME-155 Wx ............. 25.9 Down ............. Net 259.00 MODEL 5.100 . Moiching speaker In cabinet. Shpe. Wt. 10 lbs.
HE- 152

NEW HAMMARLUND RECEIVER HQ-145
This receiver is an 11 tube superhet, offering dual conver sion, for Improved imoge reiection. Caverege 540 KC to 30 MC in four bands. Pre-callbroted bond spreod on 80 . 40.20 .15810 meter omoleur bonds. Crysial filter with six-position switch. Adjustable slat fliter. Bullt in S meter. Adiustoble high-slabillity temperature compensoted B.F.O for SSB ond CW reception. 10 to 1 slonat-to-nolse ratio with a $1.75 \mu$ volt averoge AM slgnal. Special 20 meter band posifion for optimum electrical diol spread. Size $10 \%^{\prime \prime} \mathrm{H} \times 19^{\circ \prime} \mathrm{W} \times 13^{\prime \prime} \mathrm{D}$. Shpg. Wi., 42 lbs.
NE-156WX ……..... 26.90 Down ……...... Nei 269.00 MODEL MQ. 145 C . Receiver with cleck. Shpg. Wi., 43 ibs. ME-157WX .........27.90 Down ............ Net 279.00 MODEL XC.100P. Plug in erystol collibrotor for receiver. Shpg. Wi., 3 Ibs.
HE-158 ............................................................................ 15.95 MODEL 5 -200. Motching speoker for obove. Shpg. Wi. 10 lbs.
HE-159

## HAMMARLUND HQ-160

A generol-caverage communicotions receiver that has so
many footures that Hommarlund callit it their "Star Permany footures that Hommarlund call, it their "Star Porformer" - at o mast reosonoble prise. Hare is what you geft 13 tube dual conversion suparhal circuif, 540 Ke 31 Me in 6 bonds, SSB operation, Q-multiplier for concolibrations of $80,40,20,15$ and 10 malar bonds, separate BFO erystol contral on 2nd conversion asellatar, odiustable colibration on front ponel. AVC, automatic noise limiter, notch filier for reiection up to so db, 14 funed elrevifs in 455 Ke if for high sensitivity and selectivity. Booutifully destigned and engineerted for eose selectivity. socutituly designed ond engineered for
of operation. Sizes $10 \% \times 9 \times 13^{\prime \prime}$. Shpp. wi., 45 lbs . HE-1 SOWX ............ 37.90 Down ............... Net 379.00 MODEL HO-16OR. Recolver rack mounted. Shpg. Wt., 45 HEs.161wX
... 39.70 Down
Net 397.00 MODEL S-200 Malching speaker for HO-160. Shps. Wt. 10 lbs .
HE. 159
..Net 19.95

## NEW HAMMARLUND HQ-170 RECEIVER

The HQ. 170 affers the amoteur o proctically endiess combination of funing lechniaves whereby optimum recoption of SSB/CW ond AM/MCW may be achieved. The front end provides tuning of the $6,10,15,20,40,80$ and 180 meter amateur bands. with eloctrical bandspread. The HQ. 170 offors triple canversion with if fresprencies of 3035 Kc . 455 Kc ond 60 Kc , praviding excellent reiection of image-response, slot filter with oo db notch, separate Vernler tuning dial on front panel, odjusioble fost-attock deloyed AVC, "S" metor, outoresponse audio circuit for eosier reading on weok signols. Hos fube complement of 17 tubos. Sizes $101 / 2 \times 19 \times 13^{\prime \prime}$.

## Shpg. wh., 45 lbs.

HE-102wx …........ 35.90 Down .............. Net 359.00 MODEI MQ. I70C. Receiver with clock. Shpg. Wt., 45 lbs . HE-163WX Moti. 36.90 Down Hor MO-170. Not 369.00 MODEL 5-200 Matching speoker for MQ-170. Shpo. Wi., 10 BE
HE . 159
HE. 159

## OTHER HAMMARLUND EQUIPMENT

 MODEL HC.10. Converter. Converti ony 455 KC IF re. ceiver to SSB/CW ond AM/MCW reception. Shpg. Wt., 17HE-104WX
14.90 Down

Net 149.00
HE-104WX ......... ${ }^{14.80}$ Down i.........Net 149.00


## receivers. Shps. Wit., 3 lbs

ME-165 .........................................................Not 9.95
MODEL SP-600-JX. Super-Proomoteur recoiver. Covers
540 KC to 54 MC . Shag. Wt., 70 Ibs.
ME-160 WX ........... 114.00 Down. ........... Not 1,140.00 MODEL SP. 600 . 1 XX . Super-P Po-amateur and cammercial receiver covers 100 KC to 29.7 MC . 5 hpg . Wh., 70 /bs. ME-167 WX …...... 126.00 Down ........... Not 1,250.00 MODEL PL-20017-G2 $8^{\%}$ Morehing speaker for Sp-600JLX. Shpg. Wi., 10 lbr
HE-1 88 ......................................................... 18.50 MODEL XC-100 Cryial collbrator tit for $\$ P .600$. Shpg. Wh.: 3 lbs.

## NATIONAL RECEIVERS

NEW NATIONAL NC-60 SPECIAL
National's now all-wave low-priced receiver which feo Nutional canlinuaus coverege of AM Broodcost. Amateur and World Wide Shert Wave Bonds; brilliontly ityled by Peter Quey Yong for easy operation, ready reoding and ettroctive decar. Features includel separate bands $540 \mathrm{Kc}-1600 \mathrm{Kc}$; $1.6 \cdot 4.5 \mathrm{Mc}$; 4.12 Me; 10.5-31 Me with polize. CD. marine, aircraft, amoteur, Atc. stations clearly markeds plus $0-100$ logging and bondspread scale. Bandspread operative on all bands. Audio section drives builf-in speoker or front panel phone jock. Has AM, CW switch, slandby-receive switch. 2 dearees of selectlvily, complement of tubes plus rectifier superheterodyne circult. Finish is two tone black ond groy enamel. Size: $7 \%$ $\times 8 \%$ a $13 \mathrm{~h}^{\mathrm{m}}$. Shps. wt., 15 lbs . HE-200WX

## NATIONAL NC-66 PORTABLE RECEIVER

Natianol's most versatile receiver operates os o 3-war (AC/DC, botiery) Dorrable ham. marine and SWL ro. coiver. Covers the Direction Finder beocon bond 1150. 400 Ke ), Standard Broadcast and 3 bands ronging fram (operative on all bonds). Has 2 ontennas-ferrito for DF ond whip for short wove bands. CD pesitions on scoles cleorty marted. Hos CW oscillator. Twa stoge oudie amplifier drives buill in speoker or tront panel phone lock. Hos complement of 5 tubes plus selonium rectifier for Huperhet eifrcuif. Has provision for connection of RDF 66 Direction Finder for marine novigation. Finish is two-tone Diraction Finder for marine novigation. Finish is two-tone sioy, $20 / \mathrm{l}$-sproy testad. Siz
3 hpg . 16 lbs. less batteries.
HE-20IWX ............ 10.00 Down ............... Net 99.95 BA-308 FBABOP © 1 h lbs. ....................Not 4.98 MODEL RFD-66. Direction finder accessory. Used with NC. 68 as novigotion finder for small erafi. Size: $7^{\prime \prime} \times 8^{\prime \prime}$ $\times 10^{\prime \prime}$. Shpe. Wi., 8 Ibs.
${ }_{\mathrm{H}}^{\mathrm{K}} \mathrm{H}$-202
5.00 Dow

## NATIONAL NC-188 RECEIVER

A fine quality 9 tube rectiver that covers 540 Ke to 40 Mc in four bonds. Colibrated bandspread for 10 , 11 , 15, 20, 40 and 80 meter bands. Large easy.ta-read 12 Ineh slide-rule diof with cambination and backlightIng. Geng-funed RF omplifier stoge for Increased sensi. livity and imoge relection. Separete, temperature com. pensoted high frequency osclllator. Receives AM, CW, ond SSs signals. BFO far CW and SSB. Has RF and AF goin, control, oviomatic noise Ilmiter, and "S" meter. Bol. anced or unbolanced antenno input of 50 to 300 ohms. Sensitivity under 2.5 microvalis ( 10 db signol/nols rotio). Sensitivity under 2.5 microvolis (10 ob signal/nolse ratio).
Twotone groy cabinet $16.13 / 16^{\prime \prime} \mathrm{W}=10^{\prime \prime} \mathrm{H}=10 \mathrm{~K}^{\prime \prime} \mathrm{D}$ Two-tone gray cab
Shps. wt., 35 lbs.
HE-203WX
14.00 Down ............. Net 139.95

NTS.1 Moiching specker for NC.188. Shpg. wt. 10 lbs. HE-204

## NATIONAL NC-109 RECEIVER

Netional's general coveroge receiver for CW, AM and SSB neception that incorperates mony feotures of their most expensive types bui still sells at a low price. These enclusive features are "Mierotome" erystal filtor In if section for 5 different degrees of selectivity; shorp phosing notch over 60 dt deep for inferference reiection; seporate product detector for CW and SSB reception; mode selector switch includes accessory pasifton far crystal calibratar or phono Input. Coveroge is from 540 Kc .40 Me on 4 bonds. with bondspread scales for special amateur bands, all cieorly morkeds logging scole included. Canelrod (CO) points cleorly marked. Size $16 \cdot 13 / 16 \times 10 \times 10 \%$ ". Shog. wt.. 35 lbs.
NE-205wX ……...... 17.00 Dawn ............. Net 169.95 NC. $109 \times \mathrm{CU}$. Plug-in eryatal callbratar. Shpe. Wt., 2 Ibs. NE. 206 ................ 5.00 Down ................... Net 20.95 NE-206 ... N.F.M. Adoptor. Shpe. Wi., 5 Ibs.
HE-207.60 N............... 5.00 Down ................ Net 33.95

## OTHER NATIONAL EQUIPMENT

MODEL NC-303. Communications Recelver less spooker. Shpg. Wi., 64 lbs
44.90 Down ............. Net 449.00

NE-208WX ............... 44.90 Down .............. Not 4 . Motching specker for NC.303. Shpg. Wi., 10 lbs. NE-299 .................... 5.00 Down ................... Net 21.95 XCU-300. 100 KC Crystal collbrotor. Shpe. Wh., 3 lbs. HE-210 5.00 Down ..................... Net 23.95 HRO-601. Double Conversion Cammunications Receiver. Shpg. Wi., 88 lbs.
HE-211 WX ............... 74.50 Down ................. Net 745.00
HRO-6OTS. Motching rable model speoker for MiO-60T. Shpe. Wi., 10 the.
HE-212

# JOHNSON-VIKING AMATEUR EQUIPMENT 


G.


## Fig. F. "NAVIGATOR" CW TRANSMITTER-EXCITER

This spendld new CW Tronsmitler/Exciter will appeal particulorly to the discriminating CW operotor who roquirer o flezible, highly stoble VFO; on exceltoni keving syitom: all coupled with substantlel RF output. The "Navigofor has ample if power to excite mosi high powered Provides full T , Bondswilshing 160 through 10 meters. Prevides full TVI suppression and filtering. Other feo. furesi Electronic limed sequence keying, wide renge pinerwort output and 6146 in finol amplifier. Sizer $13 \%^{\prime \prime}$ MOD 9 " $210-1 / 16^{\prime \prime}$. Shps. wh. 27 lbs.
MODEA 240.126-1 obove in ill form. With tubet
HE-415WX ............. I4.95 Down ............... Not 149,50
MODEL 240-126.2 MODEL 240-126-2 Above wired and tosted. With tubet. HEA16wK ............... 19.95 Down ............... Net 199.50

## Fig. A. "RANGER"

 AM-CW TRANSMITTER-EXCITERThe "Ranger" is a rugged and cempoct 75 watt CW input or 65 wall phone unil. The "Ronger" has o pl. nafwark coupling system that will moich antenno loods from 50 to 500 ohmi and will tune out large amounts of reoctance. Singlo-knob bandswikhing on siz omounts of reoctance. Singlo-knob bendswikhing on siz ompleur
bondsi $160,80,40,20,15$ and 10 meters-bulft in VFO bondsy $160,80,40,20,15$ and 10 metert-bultt in VFO or crystol control. गimed sequence (erid block) keving provides ideal "make" or "break" an your heved signol. Yet the "broak-in" advantoges of a keyed VFO are retoined. As on esciter, the "Renger" will drive ony of the popular hilawatt leval subes and will provide a high quallity speech driver systom for high powered modulotors. Slaer $15 K^{\prime \prime} 9 \%^{\prime \prime}, ~ 14^{\prime \prime}$. Shpg. wt., 54 Ibs.
MODEL 240.161-1 Above
MODEL 240-161-1 Above in kit form. With tuber,
HE-410WX .............. 22.95 Down ............. Net 22 .
HE-110WX ..........22.95 Down ............... Net 229.50 MODEL 240-161-2 Abore wired and tested.
ME-411 WX …........... 32.95 Down ................ M

## Fig. G. "VALIANT" <br> AM-CW TRANSMITTER

Thls compact tronsmitter gives you oufstonding llexibllity and performance. . Bulli-in VFO or cryital centrolied. the Voliant is cempletaly bondswliching on all omoteur bonds 160 thraugh 10 melers... delivers atull 275 wotts Input on CW and SS8 fwith on ouxiliory 558 ex. citer) and 200 warts on AM. VFO is temperefure compen. ather ond extremely stable.
The "Valiant" lo designed with o high efficioncy pinetwerth tonlt circuit which will match ontenno toadi from Final tonk coil to litiver plated. Other features cemplet TVI suppressiong timed iequence (arld bleck) keying, high goin push-lo-lolly oudio syitem; low level audio clloging goin push-io-lolit oudio syitem; low level audio cllppings bulft.in low pass oudio fiffer and self contoined power supplies. Sizer $21{ }^{\circ} \times 11 \%{ }^{\circ} \times 16 \%^{*}$
Shap, Wf., 89 lbs.
MODEL 240-104.1 Above in thit form. With tubes HE-419WX …….....34.95 Down ............... Not 349,50 MODEL 2so-104-2 Above wired ind rested. With tubes. HE-420WX

## 500 WATTS PEP COURIER



Fig. I. "Challenger" 80 THROUGH 6 METER TRANSMITTER
The now Viking "Challenger" is ideol for the novice or mperienced amoteur for fixed ifotion, emergency, pert. able, or field day unal A full size tronsmitter with three RF stoges, the "Choltenger" is designed for fost, easy uning, excellent stobiltty, and plenty of reserve drivel instont bondiwitching 80 through 6 matore $\rightarrow 70$ watts phone inpul-1 120 wotts CW input 80 ithrough 10 moters and 85 wotts CW input on 6 metersl Stroight through hal amplifier operation even on 6 meters provides ox. 13 y " $13 y^{\prime \prime} \times 10.1 / 16^{\prime \prime} \times y^{\prime \prime}$. Shpe. wro. 28 lbs.
MODFL 240-182-1 Above in hit form. With lubes. ME-424WX........... 11.50 Down ............... Not 114.75 MODEA 240-182-2 Above wired and tosted. With qubes.
HE-425wx ............. 15.50 Dawn ............. Net 154.75

## Fig. B. "PACEMAKER" <br> AM-CW-SSB TRANSMITTER

The "Pocemoker" is on authending trammitror ond ascitor. 90 watts innut an and S58 (P.E.P.)... 35 woth: AMI Single knob benduwitching on 80. 40, 20, 15 and 10 meters, the "Pacemater" has on extremely stoble buflt-in VFO which provides complote coverage of all bonds without erystol switching or re.funing. Unique circuitry usei only I mizer far Improved epurleus signal celection greater thon 50 db . Eliminates great multipilelty of sum and difference spurious products inherent in syt. tems utilizing 2 or 3 mimers. Bolonced ronge audio does not sacrifice low frequency pesponse as fi vivally neces. sary in filter-type equipmeni. VOX and onff-trio circults ore provided for voice centralled operotlon. Plenty of power to drive conventianal or grounded grid hillowath omplifiers. Size, $21^{\prime \prime}=11 \%^{* /} \times 16 \%^{\prime \prime}$. Shpg. wt., 74 lbs . MODEL $240-301-2$ Above mired and iented. With tubes. ME-414 WX......... 49.50 Down ................ Net 495.00

## Fig. C " 500 " WATT TRANSMITTER

Tho Viting "Five Hundred" is o complete 500 to 600 watt transmitter for the 80 through 10 moter bends. All ezclter stoges are gonged to the VFO tuning.... unit is desipned throughoul for outstonding operaling conveni. ence ond floxibilly. The "Five Hundred" conilits of two compoct units on iF unit smelt enough to ploce on your operating desk beside your recelvery and o power supply/ modulator unit so compoct it may be placed in movt any conveniont locelion.
The Vilting "Five Nundred"e hos been dealgned for either crystal or VFO control. Instont bondiwhtching, the "Five Hundred" is effectively TVI suppresied and flltered centains o Pl-t network output circult, with alliver plated final fonk cail. Safoty and protective features Includero tomperproof, wey-operated moin switch; cebinet interlocks, arciration ond blos follure protection; fused flloment and plate supplies and high volioge time detor. Size: $21^{\prime \prime}$, $11 \%{ }^{\prime \prime}=16 \% "$ Sheg. wi., 200 lbs.
MOCEL 240-500-1 Above in kit form. With iuben.
HE-417WX .......... 74.95 Down .............. Net 749.50
MODEL 240-500-2 Above wired ond tested.

The new Viking "Ceurier" delivers full cammunicetion power-rated a solld one-half thlow olt P.E.P. Input os a Class B tineor amplifier; one-holf hilowatt input on CW or
200 wolts in AM linear mode; in a completely 200 wothi in AM lineor mode; in o completely self-con. roined desk-top packoge. The Viking "Courior" moy be driven by the viling "Challenger" "Rourior" moy be mokers or other unil of compersble output. Continuous
caveroge 3.5 to 30 megecyctes thendewither caveroge 3.5 to 30 megocycles (bondewitched) -high officiency pi-network output cireuit. Ropory font coll and plate tuning copocifor are ganged to singie control ond pravide uniform looded tantr elrevit $Q$ throughaut operat. ing ronge. Unique loboratery slobility toits asiure on am. plltier with exceptional everall tobillty oppreclably su. perior to other ampliffers. Fully TVI suppressed ond fil. lered; complerely celf-contalned with buili-In power supply. Sizen $15 \%^{n \prime} \times \nabla \%^{*} \times 14^{\prime \prime}$. Shpo. wt.. 68 lbs . MOOEL 240-352-1 above In kit form with fubes.
MOOEE 240-352-1 above in kit form with fubes. 24.50 MODEL 240-352-2 Above wlred and tested. With tubet. MODEL 240-352-2 Above wlred and tested. With tubet.
ME-427WX ............. 28.95 Down ............. Net 289.50

| mim. mo. | erocen wo. | DESCHIPTION | $\begin{aligned} & \text { We. } \\ & \text { Les. } \end{aligned}$ | NET |
| :---: | :---: | :---: | :---: | :---: |
| ME-42\% | 8 $2 \times 0.139-1$ 10.133-2 |  | 3 | 34.08 |
| w-4jowx | $250.23 .3^{2}$ | 275 W Matebitox |  |  |
| wt-331wx | 230.23 | $275{ }^{\text {dith }}$ coupler | 13 | 6.60 |
| Me-43w | 250.30 .3 | Wwice coupler | 15 | 8 |
| ME-33m | $250-30$ | KW Matchbox lest coupler | 28 | 124.8 |
| M ${ }^{\text {c }}$ - ${ }^{3}$ | $230-43.1$ | Converter yit 28.30 mc | 5 | 80.05 |
| W-438 | $230-43.2$ $230-43.3$ | Converter mit 28.30 mc |  | 50.95 |
| w-3y7wx | 230.43 .3 340.102 .16 | Comverterime 16.10 me | 78 | 3. |
| WE 4 30wx | $137-102{ }^{\text {1 }}$ | Matchatlert antonna | 78 | 120.80 |
| N-430 | 230.39 | T.R 8wleh | 8 | 217.73 |
| ne-40wx | \$10.1000 | Klowatt Ampliser | 400 | 1508.00 |
| Heteriwx | 251.101 .1 | Dut, mounte on P1 tht | 183 | 182.00 |
| NE.4.43m | ${ }_{250.25}^{251.20 .2}$ | Doak, mounte on 1/k | 153 | 132.00 23.00 |



COMMUNICATOR III TRANSCEIVERS

## FOR of OR 2 METERS

Complete home, portoble or mobile stations for elther or 2 meters. Features a calibroted tunable receiver, odiust. oble squelch, and noise limifer. The transmitter section Is crystal controlled and ulilizes a 2E26 in the Anal $A M$ output is 6 to 8 watts. Built-in tuning meter. Crysfol
or externol Vfo exclitation. Sizer $10^{3} / 4^{\prime \prime} \times 10^{\circ} \times 81 / 4^{\prime \prime}$. or externol VFO
Shog. wt., 25 lbs.
Shpg. wt., 25 lbs.
MODEL 31332 metar version as obove
HE-502WX
28.95 Down ..................Net 289.50

MODEL 31366 meter version as above
HE-503WX............... 28.95 Down ................Net 289.50
MODEL 3217 2ipper Corrying cose for obove. Shpg. wf., 3 HES,
HESO4

Net 14.95

## I IINEAR AMPLIFIERS

Increoses outpup to $50-60$ watts when used in conlunction with Communicator III. Amplifier uses two 826 VHF triodes. 115 V AC only. SMpg. wf., 30 tbs. triodes. $115 V$ AC only. Shpg, wi., 30 lbs
MODEL 32112 mefer version of obove. HE-508WX............. 16.95 Down .................Net 169.50 MODEL 32126 mefor version of above. Ne...... Net 169.50
ME-SO9WX............ 16.95 Down ............ Ne

## MODEL 3226 VFO

Covers both 2 and 6 meters. For use with Communicator III series. 115 V AC only, Shps, wf., 7 Ibs. HE-516.

### 6.95 Down ...........

## MARINE-POLICE

CONVERTER MODEL 3163
Now Gonnet converter operotes in conjunction with your prosent auto rodio. If covers the frequency ronge of 1600 to 3000 ke . which includes vorious ship-to-shore ond ship-to-shis serilces. Also covered are freavencles used by Police, Coast $G$
numerous others.
The full-vision dial has collibroted scale. Installatian simple, ond non-tochnicol. A switch-on converter panel gives instant selection of regular broodeast ar short wave. Size $31 / 2^{\prime \prime} \equiv 4^{\prime \prime} \times 4^{\prime \prime}$. Complete with plug and coble. Shpg. wh., 5 lbs. For 12 voll battery system only. HE-SOS

Net 29.50

## 6 METER CONVERTER MODEL 3275

Madel 3275 is on effective new converter which provides excellent 6 mefor reception on the 49 to 54 mcs . renge when operated in conjunction with on autamobile radio Triple conversion gives moximum imoge reiection. The converter is highly slable ond hos low frequency drift.
The full-vision calibrated dial utillies plonelary drive on The full-vision calibrated dial ufillzes plonelory drive on luning shoft for eose of luning.
Operation is directly from i2 volt car bottery. No high voltoge supply is required. Unil is compoct ond is mounted readlly under dashboard with brocket provided. A nolse cllpper is bullt into the converter cobinet os on odded convenience. Shpg. Wi., 5 lbs. For 12 voll bottery system only. HE. 522.
6.95 Down


## G-77A <br> TRANSMITTER


complete bondswitching VFO netwark outpul. Final and piemploys a 6146 with 50.60 woft input. VFO dial is drum trpe with $40: 1$ luning rotio motching the receiver tuning dial. Madulator receives infegral speech clipping. Panel meter reods modulatar plate current and prid ond plate current of amplifier. Front Ponel Contrals: range switch, VFO tuning, bondspread dial, pi network input and lood controls, VFO/Crystal switch, motering/VFO, spot switch ond power offon. Tronsmitter comes complete with built-in power 42 lbs .
MÓDEL 3203 for 12 V OC and 115 V .
AC. (Moy be modiked for 6 V DC operation.) HE-SO6WX
29.90 Down

N COMMUNICATION EQUIPMEN

## MODEL 3204

## 10 METER COMMUNICATOR

complete 10 moter stotion, this tronscerver contoins o VFO-funed transmitter, and double conversion receiver in one compact pockoge. Spectificotions: 50 woth transmither uses a 6146, has a pi-netwark and colibrated VFO. Pane meter is switchoble to read amplifier grid or plote currents or modulator plote current. Receiver utlilizes double-con version, olso features odiusloble "Squelch" for muted atondby, on efective noise limiter, " 5 " meter, and builtin loudspeaker, Coveroge is $28-29.7$ mes. Dial is full vision type and has plonetary vemier drive for cosy funing. power supply is buith-in. Size $13 \times 71 / 2 \equiv 121 / 2$. Shos. wf. 35 lbs. For 115 AVC only.
HE-SOTWX
29.95 Down ..................Net 299.50

## G-33 ALL BAND RECEIVER

Now, you con get outstanding all-band reception-virfually the world at your fingertips. London, Poris, Berlin, Moscow, all internotional news ovents, plus domestic braodcast band. Modern design blends perfectly with any living room, den, or office. The G-33 has two full-vision, Illuminoted, slide rule type dials for instont identification of broodcost ond short wove frequencies. Vernier tuning knobs contoin counter weights for smooth non critical tuning. 5 tubes plus reclifier, Size $8^{\prime \prime} \times 101 / 2 \times 161 / 4$. Shpg. Wt., 24 lbs.
MODEL 3222 for 115 Y AC only.
HE-S15W
9.00 Dow

## Net 89.95

## GSB LINEAR AMPLIFIER

## - IKW P.E.P.

Here's a grounded grid linear amplifier capable of 1000 watts P.E.P. Input. It con be driven to full output by any exciter delivering between $60-70$ watts. Amplifier uses four 811A's. Built-in heory dury power supply employs two 886A mercury-vopor rectifier tubes. Operotion is simple. with a minimum of funing. Shpg, wh., 150 lbs. HE-S20WX
43.95 Down

Net 439.50

## SUPER 12 CONVERTER

Amaleur converter for mobile use. Covers 80-40-20-15-10 meter amaleur bonds. The Super 12 is easily installed and requires no alferations or infernal connections to the cor radio. Unit iescompact in size and feotures excellent sensjlivily and stability. Built-in power supply works directly on cor boffery, no externol high voltoge supply is needed
MODEL 3261 Above foctory wired for I2V DC only HE-5 19 ....... Net 69.50

## MODEL 3012 FM TUNER

For moblle or home use. Not illustrated. Easily installed in any conventionol AM iuner. Covers 152-162 MC. Power re. quirements 150 V DC of 14 mo and $6.3 \mathrm{~V} A C$ at 1.8 mo . Size $51 / 4 \times 31 / 2 \times 5 / 4$. Shpo. wi., 5 lbs
HE-524
Net 79.50
7.95 Down.

## MODEL 3311 FM AUTO TUNER

## you con enjoy fine music in full high fidelity while

 driving. The FM funer gives drift-ifee reception, and eliminoles "drop-out" from high tension line, ond imilor interference. The FM progrom is seldom impaired when one drives through tunnels or under bridges, unlike AM which usually fodes or disoppears. The funer features high sensitivity $(3-5 \mu$ volis for 20 db auiefing), high imege reiec. tion. AFC ond a becutiful chrome-trimmed cobinet that improves the interior appearance of ony cor. Shpg. Wt., 8 ibs. For 12 V DC only.HE-535WX
10.00 Down ...............Net 99.95

## G43 ALL BAND COMMUNICATIONS RECEIVER

A fine, new all-band receiver, offering the radio omoteur or advanced shorl wave listener feotures usvally found in much higher priced equipment. The G43 leotures wide fre. quency coveroge ( $540 \mathrm{kc}-30 \mathrm{mc}$ ) bullt-in " s " meler, high tability, and velvet smooth tuning made possible by in ertiol weighted flywheel. Specificotions: Sensifivity 3 a volts or better thravghoul the freavency range. Selectivity, 6 the of 6 db down, 24 the of 60 db . Oscillators are tem peroture campensated and electrically stabilized to insure very low frequency drift. Shpg. wt.. 26 lbs. MODEL 3241 Complote with bulis-in speaker. for 115 V AC only,
HE-518WX .......... 15.95 Down ..............Net 159.50

## GSB-100 SSB TRANSMITTER

## This complefe, reody-io-operate SSB fronsmitter is rated a

 100 wotls on a single tone bosls. Operates on AM-CW100 watts on o single tone bosls. Operates on AM-CW SS8 and phase modulation. The GSB-100 features bulti-in voice contral system (VOX) $100 \%$ AM modulation. Im.proved phosing fechniques, built.in exceptionally stoble proved phosing fechniques, built-in exceptionally stable V.F.O., Complete bond switching and builf-in heovy-duly 10 meters. Inpuf; 100 watts-single tone, Outpuff 50 wotts ingle Tone Corrier Suppression, 60 db . Unwonted side bond suppression 45 db , Shpg. wh., 67 Ibs. MODEL 3233 for 115 VAC onlv

## HE-517WX <br> $$
47.95 \text { Do }
$$ <br> <br> 47.95 Do

 <br> <br> 47.95 Do}
## MOBILE FM CONVERTERS

Now you can convert your outo rodio for FM reception Minimum drifi high signal-to-naise ratle and exceptional sensitivity are assured thraugh the use of advanced circult design. Installation is simple, and can be mode in minutes Front panel switch allows you to select either stondord or FM reception. Converters are housed in attractive chrometrimmed cobinet thot blends with instrument donel of olt cors. Shog. Wi., 24 lbs. 12 V DC onity.

## MODEL $324730-40 \mathrm{MC}$ version of obove

HE-525w
HOOEL 3251 As obove but 40.50 MC range....Net 89.50 HE-526 WX

## 3 BANDER BEAMS

 10-15-20 METERS

## Top performance on 3 bonds

 is achieved without coils of ony kindl All elements ore foctory cut to length. No in. struments needed fune only with o topemeo. sure.MOOEL 32203 element version of above. $w f$., 75 lbs . ME-S13WX ....... 12.45 Down ........Net 124.50 MODEL 32192 element version of obove. wi., is lbs. HE-536WX …......... 8.45 Down ……........Net 84.50

OTHER GONSET EQUIPMENT

GONSET


GONSET GII


Use for business or pleosure. Two-woy communicotions on the 11 meter band means greater range, reliability and versopility. Gonsef G.11 meets every field ond F.C.C. requirement. Transmifter is rated of 5 wafts power input. Is AM modulated and has $0.005 \%$ talerance eryitals. The G. 11 is designed so thot it will never preduce illegal emissions. Full press-to-talk feature simplifies aperation. Hos effective audlo systom. Speaker is built inta front ponel. G-Il also has adjustable "squelch" for muted spandby operation. Tuning indicator on frens panel alves visual indication of proper pransmitter aperation Both transmilter and cecelver are erysial contralled for highest transmitfer and recelver are erystal controlled for highost button to tolk. Three models ovoiloble 6 valts DC only 12 valis DC anly or 115 valis AC only fansmitlor, teiver and power supply are il one. Ironsmiker, re ceiver and power supply are olf in one comport unit mea.

MODEL 3303 Camplete with press-to-folk microphone and crystals for ono chonnel. For $115 \vee A C$ opereflon. Shpg. w.. 10 lbs.

HE-527WX
12.45 Down

Nef 124.50

MODEL 3304 Same os obove except for 12 V DC opero HE.528WX 12.45 Down Not 124.50 MODEL 3305 Same as obove except for $\Delta V$ DC 124.50 HE-529WX
12.45 Down .......................... 124.50 MODEL 3296 GROUND PLANE ANIENNA for home use. Complete with $50^{\circ}$ of lead inguy wires, and hardware. Shpg. We., il lbs

## HE-530WX ................ 5.00 Down ....................Nef 39.95

 MODEL $\mathbf{3 2 9 7}$ MOBIL E ANTENNACowl looded whip. Shpg. WH.. ${ }^{2}$ 1bHE-531 ........................................................................... 13.50
MODEL 33023 ELEMENT BEAM-Directional antenno with forward goin of 8 db . Front to bock retio is beffer than 20 db Shpg. 16 tb
thon 20 db . Shpg. Wf., 16 lbs.
HE-532WX
.Net 39.95

## VOCALINE

THE COMMABRE EO-27 is o compact, highly efficiont tronsceiver. The receiver section employs a double cenversion superhetradyne circuit and emphosizes exceltont sensitivity and solactivfity. The tronsmitter section features at full 5 wall inpup and a high quality modulator. SPECIFICATIONS: Selectivity: $\pm 5 \mathrm{kc}$ of points 6 db down. Sensitivitys 0.1 microvolts. Noise immune. Patented squelch. Audlo Ouppuf: 4.5 wotis. Uses 10 tubes. Power Supply is iransistorized. Power $115 V A C$ and $6 V$ DC or $115 \vee A C$ and $12 V D C$. Sixe: $5^{\prime \prime} \times 9^{\prime \prime} \times 71^{\prime \prime}$. Shpg. wt. 111/2 lbs. ED-27. Complet with push-bution microphone, short range ontenno, crystols to operent on 27.105 me . $A C$ and DC line cords and mobile mounting breckets. HE-250WX 115 VAC/s VDC 14.36 Down Net 143.60 HE-25 IWX 115 VAC/12 VDC 14.36 Down Nef 143.60

## AUXIUARY ANTENNAS

MODEL CYB For mobile use, $93^{\prime \prime \prime}$, white fibre glass com. plete with cable, plug. gutter clip, spring and bumper mount. Shpg. wt., 5 lbi. mount. Shpg.
HE-243 WX
5.00 Down

MODEL CVM S
HE.244 WX
MODEL DYB-42 F.... 5.00 Down ..................... Nep 23.60 ompleto with iser mobile use. 102". stalnless steel comple, plug, gutfer clip, spring and Shpg. wt. 7 lbs.
HE-245 WX
Net 15.80
OEL DVM-32 Sa
HE-246WX
MODEL DVT-587 For use, bose loaded sharter plug. Shpg ano. Complefe with gutter clamp, coble and plug. Shpg; wt., 2 lbs.
MODEL DVP- 36 Portoble whlp for indear use. $40^{\circ}$ bose looded. Shpg. wt., 2 lbs.
MODE1 CYX For how or me....................................... 7.40
MODEL CVX For home or morine use. Fibre gloss construction and corrosion resistont. Complete with mounting brockef and $15^{\prime}$ coblo with plug.

Net 36.80



## RCA CITIZENS BAND 2-WAY RADIO-PHONE

- Operation from 115 v AC and 6 or $12 v D C$
- Compact, portableweighs only 8 lbs.



### 124.95

SOUELOH UNIT-Plug.in type for quielting rectiver whon not rocelving signols. Tyoe Mi-535502. Shpg. Wh., 3 lba HE-636 ...... 5.00 Down .............Nót 25.00

## REGENCY

The CB-27 wos designed to give camplete flexibility of aperation on the clors 0 Citizens Bond. TRANSMITTER secrion provides choice of iwo channols for interierencetree fronsmission. Unit comes equipped with ervstal for one chonnel. Unit is foctory aligned on on addiflonal chonnel. Other fectures: Double conversion, suserheterodyne design, adiustable squelch, nolse llifiter, lluminated slide rulo dial, AVC and crystal controlled firsi ascillator.
Recelver
Tuneoble chan, 1-22. Sens. 2uv of better. Selectivity: -o kc@6 db down ond 14 kc @ 60 db down.
image raiection, 40 db or better. Double canvertion superheterodyne. Ist ose. afol contralled-1 it if $10.7 \mathrm{me}-2 \mathrm{nd}$ osc. tuneable-2nd if 455 kc . Adiustable corrier-aperoted squelch operotes reliobly at 5 uv or less.
Adiustoble carrier-controlled series-gote $n$
2 wolls oudio oulput-4" Alnico V speaker
Eosy to reod colibroted slide rule dial

Confrols: Tuning, squelch, on-off/vol. TRANSMITTER
Hand-held microphone with push.to-tolk bufton
Automatic modulation control
5 wats input power
Two iwith-selected tronsmit chonnels ovailoble. One chan nel foctory oligned and crystol furnished-additional channel foctary aligned for eosy crystal installation if desired. Antenno matching overo ronge of $20-100$ ohms.
General
Supply Power; $115 \vee A C$ (Cs-27) or $12 \vee D C$ (CBM-27) Pawer Consumptlon 30 watts (stondby) 50 watts (transmit) Size: $41^{\prime \prime} \times 6 h^{\prime \prime} \times 8 \frac{1}{4^{\prime \prime}}$. Shpg. wt., II lbs.
MODEL CE- 27 Operoter on 115 V AC.
HE-488WX ...... 12.50 Down
Net 124.95
MODEL CBM-27. Operotes on 12 VDC .
12.50 Down

Nef 124.95

This RCA Rodio.phone is designed to provide low cont 2. way communicollon focilliles for oll boat awners. Operates on 27MC "Citizens" band. Essentiol for vessels not olreody equipped with a radio-telephane. Also useful for canstruction crews, surveyori, hunters. and sportsmen. Puih-to-talk bulton permils easy one-hand operotion. Other Teoturas include- 5 watl $x^{\circ}$ mimer, ${ }^{4} \mathrm{ft}$. Telescoping on. tenno; Two 5 f . pawer cobles; Rerractable corrying hondio: Highly, sensitive receiver; Weatherproof aluminum cobinet. Unit meatures $9 \%^{\prime \prime} H \times 7 \mathrm{~K}^{\prime \prime} \mathrm{W} \times 5^{\prime \prime} \mathrm{D}$ and weighs only 8 lbs. Two types ovailoble for operotion from aither oV DC and 115 VAC or $12 \mathrm{~V} D \mathrm{C}$ and 115 VAC . TYPE CRM-P2A-5 Shipping woight 10 lbs. HE-629WX ..... 12.50 Down.... $6 / 115$ volis.......Nep 124.95 HE-630WX.....12.50 Down...12/115 volts......Nef 124.95 ACCESSORIES FOR RCA RADIO.PHONE
MARINE ANTENNA-108" whip type with swirel base odopter ond 15 ft . coble. Trpo M1-555499. Shpg. wi., 7 lbs.
HE
HE-b3IWX
5.00 Down

Net 24.50 VEHICUIAR ANTENNA-102" whip rype (bumper chain mount) with shock mounting spring and 15 f . cable. Type M1.555497. Shpg wt., 7 lbs.
HE-632WX …............ 5.00 Dol 24.50 VEHICULAR ANTENNA-102"' whip rype (for cowl and rear) with shock mounting spring, swival baso and 15 ft . eable. Troe MI.555498. Shpg. wl.. 7 Ibs. HE-633WX 5. 5.00 Down

Net 25.00 GROUND PIANE ANTENNA-lorge heovr-duty verticol type with 4 pelescoping ground plone radiels. Type ML. 555501.
HE -635 WX
Shpg. WF., 12 lbs.
5.00

HE-635 WX ……........ 5.00 Down

## Electrovorice

RME MODEL 4303 TRANSISTORILED CLASS "D" TRANSCEIVER

### 99.50

Hondtheld partoble, campletely ironsisforized unit requiring no test to operote and feofures superheperodyne circultry, compectness, ond poriobiliy. SPECIF 26.96 to 27.27 me Sensitivity 2 micro volts. Clrevitryi Supepheterodyn miero TRANSMITTER: eryial contralled on oll chancels chownels-belween 26.98 and 27.26 mc Power input to final rube is 90 militwolls The fronseiver employs 7 high gain pron sistors and 2 diodes. Average baltery lifo 60 hours. Requires two Burgess 24 or Evertady 724 batteries (not supplied) Size $2^{\prime \prime} \times 3^{\prime \prime} \times 9^{\prime \prime}$ - Shpg. wf., 2 Ibs. Complete with $34^{\prime \prime}$ refrectable whip on renna.
HE-620WX .... 9.95 Down .... Net 99.50 BA. 109 BAITERY ( 2 requited) Shpg. wf.


VOCALINE
LOW COST 2-WAY TRANSCEIVERS
Practical 2-way communica fion for boot sportsmen, sur vering, etc. Simple operotion. Builtin whip antenno. Operotes on Clizens Band examination is required for license. Complate mith, no exomination his required for license. Complete with miere. ahone. Size $9^{\prime \prime} \times 6^{\prime \prime} \times 5^{\prime \prime}$. Shpg. wt., 12 lbs. For 115 y $A C$ and battery operation, specify cheice of 6 or $12 v . D C$ VOCALINE JRC-400 Iranscolvers.
HE-235W/
12 Down
..Nel per poir 119.60
VOCALINE JRC-425 transceivers, as above, but feoturing pushoto tolk operation. With sarphom lock ond stoin HE-236WX.
16.75 Down......... Net per poir 167.50 LCX-I CARRYING CASE-holds tronsceiver, mike, lime cords, and provides space for wat coll bollery. Shpg. wt. HE-217

## VOCALINE ANTENNAS

GP4-10
HE-238
6.36 GP4-20 greund plone $20^{\circ}$ of RG58U coox line. GP5.50 greund plane, $50^{\prime}$ of RG80 low loss coax HE-240

Net 19.96
AD-3 High goin directional ontenno, less coar
HE-241 Not 19.96


## MONITORADIO FIXED FM RECEIVERS

Extro sensitive FM recelvers for pollce and fire departments. Civil Defonse, and inof fixed or portoble applicotion. Sensitivisy of 4 uv or less for full 20 db quieting. Buili-in squekh ellminates noise between transmissions. Builtin $5^{\text {n }}$ speoker 8 wof
 outpul. Two-tone metol cabinet $111 /{ }^{* \prime}$ x $7 \% / \mathrm{m}^{\prime \prime} \times 61$ MODEL MR- 10 iunoble FM reseiver for $152-174 \mathrm{MC}$ band. MODEL MA- 10 iUnoble FM receiver for 152.174 MC band.
HE-270WX. $6 . . . . . . . .45$ Down 64.50 MODEL MEC. 10 erritol.controlled FM receiver for 157 MODEL MEC- 10 ervitol-controlled FM recelver for 157 -
174 MC baed. Shipped from foclory with crystol inslalled 174 MC baed. Shipped from foctory with crystol installed
and adiusted. Specify exocl frequency desired. W:., 15 lbs. and adiustes. Specify exact frequency desired. Wi., 15 lbs.
HE-27IWX. 7.65 Down................ Not 76.50 MODEL CA- 2 antenno for MR. 10 and MRC. 10 receivers. HE-272 Sh.sg. Wl., I lb............................... Net 5.00 MODEL MF- 33 funable FM receiver for 30.50 MC band. HE-273WX MODEL MRC. 33 crystal. 6.4 Down. Shpg. wh. 15 lbs. 64.50 MODEL MAC. 33 crysial-cantrolled FM receiver, for 30-50 MC bond. Shipped from factory with crystol inctallad nad odiusted. Specify exoct frequency desired. ws.. 15 lbs. HE-274WX............. 7.65 Down...............Net 76.50 MODEL A- 30 antenno for MR- 33 and MRC. 33 receivers. HE-275 Shpg. wt., I tb.......................Net 7.50 MODELS CF-I and DM-1 focilitale reception of norrowed. bandwidth FM transmissions estoblished by recent FCC regulations. For MR-10, MRC.10, MR-33, and MRC.33. CF-1 Crysto Fitter incrooses selectivity. Shpg. wh., 2 lbs.
 DM. 1 RATIO DETECTOR MODIFICATION KIT Inciease: NE-277. Sipe

Net 6.95


## MONITORADIO MOBILE FM RECEIVERS

High quallty mobile receiver for governmental, municipol and industrial uses. Thete entir. FM communications bands with excellent sensitivity. 10 tube circulf features o fully tuned RF omplifier, dual conversion, ond two stoges of limiting followed by the conversion, ond two stoges of limiting followed by the For 12 v . Df 3.9 amperes. Housed in aftractive cobinef. only $41 / 3^{\prime \prime} \times 6 \frac{1}{2 "} \times 834^{\prime \prime}$. Shpg. wh. 10 lbs .
MODEL M-40 Moblle FM receiver for $30-50 \mathrm{MC}$ bond. Senslifity ${ }^{2} \mathrm{uv}$ for 20 db qulating.
HE-278 WX.............9.95 Down....................Nof 99.50 MODEL MG-40. Some os above, but crystal-centrolled. HE-279WX ..............1i.45 Down ...............Net 114.50 MODEL M-160 Mobile FM recelver for the 152.174 MC bands. Sensitivity $4 \mu \mathrm{~V}$ for 20 db quieting. HE-280WX …….......9.95 Down $9 . . . . . . . . . . N o l ~ 99.50$ MODEL MC. 160 Some as obove. but erystal.controllod. HE-2BIWR ................11.45 Down.............Net 114.50 Specify Frequency for MC Models


MONITORADIO
NEW FM RECEIVERS

Highly sensilive FM recelvers for police, fire, ferestry. taxi, civil defense, morine and industrial applicotions Recsivers are quatity builf for long tife ond dependoble trouble.free service. Feaiures sensitive superheleradyne circult, built-in 4"" speaker, and minimum noise under "no-signal". condirions. Specificollons, PR-35 covers 30-50 MC. PR. 155 Covers 152.174 MC. Sensilivity: 10 Microvolis or $\pm$ SKC deviotion; Solectivity: 100 KC . For $117 \vee \mathrm{AC}$ or DC. Sire, $91 / "^{\prime \prime} \times 6^{\prime \prime} \times 5 \mathrm{ym}$. Shpg. wt. 6 lbs. PR-35 FM Recuiver, Covers $30 \cdot 50 \mathrm{MC}$ HE-2 22. PR-155
HE-283

5.00 Down.

3.00 Down.

Net 49.95

## AMECO 6-METER <br> CONVERTER KIT MODEL CB-6K

Now you can convert any band. Pi.net output with recelver to cover the coil permits odoption to band. Pi.net oulput with topped coil permits odoption to
ony receiver regordiess of frequency. Converter is enyital controlled, ond utilizes of 6B27 coscode RF ompllfier ond controlled, ond utilizes o 6827 coscade RF ampllfier and
oU8A mizer-escitlotor. Feotures doublepefuned, shiolded bypass mizansformers between ontenna ond RF siages and bypass fronsformert between ontenna ond RF spages and
between RF stape and miner to provide the ideal respanse between RF stoge and mizer to provide the ideal respanse curve for high sensifivity and maximum harmonle rejec-
tion. Specifcotions: IF rejection-aver 100 db . Power gain. tlon. Specificetions: IF reiection-aver 100 db . Power gains
20 db . Noise relection: 4 db . Unil is housed in brushed 20 db . Noise relection: 4 db . Unil is housed in brushed copper chossts with black leftering. Power requirementsa
16 ma of $117 \mathrm{~V} D \mathrm{C}$ ond .85 A at 6.3 V AC ., obtoinable 16 mo of 117 V DC and .85 A at 6.3 V AC. obtoinable
from the receiver or from Model PS. 1 power supply. Size: $2 \mathrm{~V}^{\prime \prime}=21 / \mathrm{m}^{\prime \prime}=5^{\prime \prime}$. W1.. $31 / 2 \mathrm{lbs}$. Complete with lubes ond erysial.
HE-385 ..... 6 Meter Converter Kft
HE-386-C8.6W obove but wired 5.00 Down....Net 19.55


## AMECO PS-1 POWER SUPPLY

This power supply is primorily intonded to supply power to the model C8-6, but con also be used to power any number Delivers 50 ma. at 117 YDC shack Delivers 50 mo . of 117 VDC and 2 A ot 6.3 VAC.
PS. 1 Pow

PS-1 Power Sudoly Foctory Wired and Tested. Shpg. WI., 6 lbs.
HE-387
NEW EICO $710 K$ GRID DIP METER Tronsformer-operoled, versalile grid-alth Internol oscillator covers 300 KC to 250 MC in 7 overlapping ranget. Phone iock on ponel permits listening to external sig. nals; ponel switch permils using the eriddip meter as a tuned diode detector. Feolures sensilive meter, lorge calibroted scales, planetory dive lunge colibroted ccales, planatory dive funing 2
$2-9 / 18^{\circ "} \times 6 \%{ }^{\circ \prime}$. Shpo. wh.,
HE-31S Kit ....5.00 Down .....Nat 29.95 ME-316 710 obove wired 5.00 Down obove wired


Net 49.95


NEW EICO 720K TRANSMITTER KIT

Brond new 90 wall band
meters. This beoutiful rig features cleon con 80 through 10 sign with extre high stabiltity, safety and rellobllity, Mod ern, low cabinet with functional front panel desion ond complete TVI suppression, permits use onywhere. Features 6146 Final omplifier for 90 wath CW input. Fectures to 65 - 146 Fins omplifiar for 90 watis CW inpul. ED to 65 tube protects final in cose of loss of ercitation clampe tube protecis final in cose of loss of encitation. Voriable kexing permits full break.in operation. Ponel meter indicates pact operoting currents and helps in tuning up its cater exat operaling currents and helps in tuning up. Its erceeding the 75 walt power limit. Tube novice against exceeding the 05 wall power limit. Tubes: 6CL6 Colpitts 6AOS slamper, ond GZ34 rectifier. Copoer plated shossis, seramic switches, G234 rectifier. Copper plated shossis, seromic switchos, ingenious melol cose with cemplete shielding. $5^{\circ} \mathrm{H} \times 15^{\circ} \mathrm{W} \times 9 \%^{\circ} \mathrm{D}$. 5 hog. wt., 27 lbs. With all parts and instructions.

HE-3IOWX Kit
8.00 Down

Net 79.95
MODEL 720 obove foctory wired.
HE-3IIWX.
12.00 Down

Nel 119.95


SONAR MARINE RADIO-TELEPHONE

Now Sonar offers a poweriul, lightweight marine rodio. relephone with on unusually low current drain. Ideal for the smallest outbeard to the lorgest crulser. Easlly in stalled and deteched withaul refuning. Feolures: 5 prefuned channels plus stondard broadcest band Lone ponge transmitter and extra sensitive receiver tugead separate power supply con be instolled anywhere on the bopi spate clficotions: 35 woft input to final iube. Frequency: 2000 . 3500 KC .
M35W8A Marlne Radio Telephone. Shpg. wt., P Ibs.
HE.350WX ................30.00 Down ............ 299.95

## OTHER SONAR MARINE RADIO

 TELEPHONESOutstonding rodio telephones feoturing 6 channels plus broafcast band, adiustable squelch, aulomotic noise limiter, panel meter, push.to-lalk operotion.
MODEL 65 Transmifter power 65 wolts. Specity 6 or 12 $\checkmark D C$ Shog. wl., 24 lbs HE-35iwx Wh.........39.50 Down........................ 395.00 MODEL 9094 wotls. Specity 12 or 32VDC. wt. 29 lbs. HE-352WX ..........49.50 Down................Nei 495.00 MODEL 160160 watls. Specify 12 or 32 VDC . Wl. 351 lbs
HE- 353 WX . 59.50 Down


## SONAR DIRECTOR FINDERS

Baltory operated unit tunes beocon. broadcost, and morine frequancies. Crystal-controlted reception on 2182 ke emergency chonnel or ony other frequency from 2 to 3 mc
Model DF4X Director Fintes Botlorios. Shpg. wt., 18 lbs HE-354WX Director Finder
Botteries Required: Burges 2 .Net 179.95 Crystals for operotion on 2 to 3 me. 10 . Net Net 7.05 MODEL DF6X similar to DF $4 X$, but completely fronsistor. HE-355WX
24.95 Down.

Not 249.50


## SONAR D-1 $20 B$ DEPTH INDICATOR

## Accurote, ruggod depth indicator

 meosuring from 1 to 250 feet Eosily Installed, reavires 6 or 12 VDC. Size: $91 / z^{\prime \prime} \times 7^{\prime \prime} * 6^{\prime \prime}$. Com plete with tronsducer, gimbal andfoiring block. Shpe. wi., 13 lbs. MODEL D-120月 for bulkheod mounting. Shpg. wi. HE-356 WX...............14.00 Down..................Nef is9.50 MODEL D- 120 P Portoble model operoles on welf.contained wolt rechargeable boltery. $91^{\prime \prime} \times 7^{\prime \prime} \times 11^{\prime \prime}$. Shog. wh 22 lbs.
HE-357 WX
19.00 Down
Nel 189.50

MODEL D-125 DEPTM ALARM. Some os obove with outo. matic sofety alorm added. Alorm sounds of whon boal reoches ony predelermined minimum depth. Set it and for reoches ony predelermined
HE-358WX ............19.85 Down....................Net 198.50 MODEL D-600. Deep seo version of model D-1208. Reods $0-600$ foef. Size: $111 / m^{m} \times 71 / m^{m} \times 71 / 2 n$. Shpg. wh., 10 lbs.
HE-359WX HE-359WX SONAR ACCES5ORIES ...........Net 249.50 SONAR ACCESSORIES
HE-3do Zlpper bop ............. Shpg. wi.. $1 \mathrm{lb} . . . . \mathrm{Nef}^{2} 4.95$ HE-361 Telephone Hondset Shpg. wi., 3 lbs. Net 18.00 HE-362WX Vonguard Antenno, Wi., \& lbs. ....Net 43.00 HE-363WXPermanent Antenno..Wi., $14 \mathrm{lbs}, \ldots$. Net 80.00

## HE-364 Crystols, poir Shpg. wh., 2 ox...........



Completely new high level closs 8 modulotor for phone operation, delivering 50 walts of oudio to plote modulote the Eico 720 tronsmitter or ony other transmitter of up to 100 wafts. Multi-match oufput fronsformer matishes 500 $10,000 \mathrm{ohm}$ loods, low tevel clipping ond filtering for top modulation, bulli-in avermodulation indicater. Inpurs for ervital or dynamic mike. phone palch, itc. Uses ECC83/12AX7, GAL5, GAN8, 2.EL34/SCA7, EM84, G234. 117 V 60 cycles, 150 wotts. $6^{\circ} \times 14^{\prime \prime} \times 8^{\prime \prime}$. Shpg. wt. 21 lbs
HE-312WX Kit...............5.00 Down..................Net 49.95
HE-313WX 730 obove wired ...8.00 Down.....Net 79.95 HE-314 Model ES cover for 730 .WI., 5 lbs .....Nel 4.50

## SELECTED SHORTWAVE, AMATEUR AND MOBILE COMPONENTS



Compoct 5 -fronsistor receiver in o compoct cose dellvering fult-bodied tons and high output. Perfect for broadcost reception in the home, or in the car. Ideally suited for use with the ATC. 1 converter for portoble moblle or oven flzed installations built-in input motching network provides correct match for converter assuring the best in performonce. Operates up to 200 hours 4 rom singlo self.contained baftory (not furnished). Easily installed in self-contained baitery (not furnished). Easily installed in car. Size: $31 / 4^{\prime \prime} \times 43 / 4^{\prime \prime} \times 41 / 16^{n}$. Shpo. wt., $31 / 3^{\text {Ibs. }}$
HE 490 -Receiver 5.00 Down
Not 39.95

## 2N6 9 Volf Boftery for obove

## B \& W MODEL 600 GRID-DIP METER

Versollte test instrument for shop or hom shock. Tunes 1.75 to 260 me . in five ronger, uses color-coded dial and plug-in coils. Used as grid-dip meter, signal generctor or wove-meter. Complete with coils and rock. For $110-120$ volis $A C$. Size $3^{\prime \prime} \times 3^{\prime \prime} \times 7^{\prime \prime}$. Shpg. wh., 3 lbs.
Grid-Oip Meter
HE-300 5.00 Down Not 45.72

## B \& W LOW PASS FILTERS

Eliminotes TVI problems forever throughout IV band

100 db on chonnel 21 Com pietely self-contoined, usable with fransmitiers to 1 kw using cooxiol ironsmission line.
HE-301 Model 425 for 52 ohm coax.........Nel 17.10 HE-302 Model 426 for 75 ohm coax... ....Net 17.10


## B \& WT-R Switch

Automatic ontenna changeover, with transmitters to 1 kw . Provides up to 6 db goin of 3.5 mc . for better recoplion. For 52 or 75 ohm lines Model 3808 T.R switc HE-303 ... 5.00 Down ...Net 23.70

## AMECO CD-1

 CONELRAD MONITOREntirely quiot Conolrod Monitor which connects to ony recelver which connects to ony recolver quiet, sends out o cleor tone when quite, sends out o cleor tone when plete with fube and trensformers, and plug-in cennectors, Shpormers, and plug-in connectors. Shpe. Wh.
ME-393
Net 14.65


## NEW CDR <br> MODEL HAM-M HAM BEAM ROTOR

Antenno roter to support ond rotote the heaviest beams commerciolly avolloble. Heavy dufy brooched-cut stoinless steel motor gears and pinions, with sotensid operoted brake rolease and olectricol end-of-rotation protection. Includes oftroclive indoor control unit with large indicotor to show beom direction. Rotor uses heovy duly holding brockets with stointess steel $U$ balts and nuts providing easy mounting on all stondord towers. Comolete system ready to instoll. we., 15 los. 12.00 Down HE-475WX ........Nell 19.50


Novel tronsistorized converter for the $80,40,20,15$, and 10 meter amoteur bands. Provides sensitive reception of phone, CW and SSB signals. Completely self-contained. even includes ifs own power supply - three typo $Z$ pen. 1ight cells (see below). Built-in-Q- multipller/8FO in. creoses sensitivity and provides beat tane for CW and SS8 reception. Entirely bondswitching, uses o drum-type slide rule diol for easy visibility. With coble for connoction to TCR-2 recoiver, less botteries. Size $31 / 4^{\prime \prime} \times 4 \frac{1}{4}$ $\times 41 / 0^{\circ}{ }^{\prime \prime}$. Shpg. wi., $21 / 2$ Ibs.
HE-491 Converter 8.00 Down .......................... 79.50 Type $Z$ Penlight Cell for above $(3$ required).
BA. 154 … ..... Shog. wt.. 4 ozs. eoch .......Eoch Net . 08


## AMECO CODE PRACTICE OSCILLATOR

- variable tone control - in kit or wireo form

This Code Practice Oacillotor, for 110 volts $A C$ or $D C$, with buill in 4 inch peaker, proauces o purt, steody lons. It con take o larg number of headphones or keys. The escillotor is eosity converted to on excellent $\mathrm{c} . \mathrm{w}$. monitor. With tubes shop. wt., 3 lbs.
HE -400 MODEL CPS-KT. Kir
octory wired.
Net 13.47 Net 14.65

## TAPEDCODE

Prerecorded magnetic lopes contoining o complete course In the Internotionol Morse Code. The lopes ore 7" 1200 ft . and con be played on ony Playing time 2 hours per standard fape recorder NOVICE 8 pic instructions $\&$ rope. Shpg. wi. $11 / 2$ tbs RT. 14
AOVANCEO Code of 9.18 WPM RT-15
Net 6.35


TECRAFT CASCODE CONVERTER KITS

## For Hams, CAP Police and Fire Depts., CD, efc.

Top performance where reliobility countsl Designed to t used with generol coverage recelvers to provide receptior on 6 or 2 meters. Noise figure approx. 4 db. , $1 / 10 \mu \mathrm{r}$ input for signal o db over noise level. Gain better thon 30 db . Possband 6 mc . @ 6 db down polnts. Power input $6.3 \vee \mathrm{AC}$ @ 2.4 amps and $150-250 \vee D C$ © 043 amp a nox voltoge. Uses 5 tubes, erystal. Size; $91 / 2^{m} \times 3^{m}$ $41 / 2^{\prime \prime}$ (not inc. fubes). Complete step-by-step assembly instructions. When ordering give luning roñge of receiver Shpg. Wt., 5 lbs.
Model CC5-50K 50-54 me. (6-meter) convertor kif HE-550 5.00 Down Nel 29.9 Model CC5-144K [44-148 me. (2-mater) converter kif. HE-551 5.00 Down Nef 29.95 (Be sure to give your receiver's range when ordering) Model P-1 Power Supply for obove converfers. Supplies 6.3 VAC@ 3 amps and 200 V DC @ 05 omp. For 110 120 V. 50.60 cycles. Size $51 / 2^{\prime \prime} \times 91_{2 \prime \prime}^{\prime \prime} \times 5^{\prime \prime}$. Shps. wh. 6 lbs. HE. 552 5.00 Down

Nef 19.95

##  <br> AMECO <br> FOLDED DIPOLE ANTENNA KITS

Eosy-to-putup folded dipole ontennos complefe with d pole, 75 ft af lead-in wire, and connector wire. No soldering nocessary; ontenno hondles to 300 wolts of signal. Avg shpg. wf., 4 lbs.
HE-396 ... Model FD. 10 for 10 meters..... Net 3.50
HE-397 ... Model FD-20 for 20 meters:......Net 3.95 HE-398 Model FD-40 for 40 meters ME-399 Model F.80 for 80 meters

Net 3.95
Net 4.95
Net 6.75

## NEW!

## AMECO AC-1T

## AMATEUR

## TRANSMITTER KIT

- ideal for novice
- self contained

The ideal unit for the beginner or novice who reaulres o relioble transmitter. Contoins its own tronsformer powered AC power supply. Uses o Pi-notwark output circult to AC power supply. Uses a Pi-notwark oulput circult to load ony rondom length wire os ontenno. Na antenna funer required. Has full 15 wott input on 40 and 80 metors, Vory easy to bulld, and easy to operote. Complete with punched chassis, oll parts, tubes $(6 \mathrm{~V} 6$ ond $6 \times 5)$ and instructions. Shpg. Wl.. B lbs.
HE-394 Tronsmitter Kit
Net 18.70
HE-393 CKI extra coil tit


## TECRAFT

 "MINI-VERTER" CONVERTERSIdeol unit where spoce is of opremium; for mobile ond home. Requires $3 / 4$ omp of 6.3 V and 8 mo. of 100 VOC . Designed to use the broodcast band (550 ke to 1550 kc ] of ony receiver for runing with a range of 1 me. Stoble operation provided by erystal-controlled oscillatars. Chassis only $5^{\prime \prime} \times 2 \frac{1}{4} \times 2 \frac{1}{4}$ "exclusive of tubes and erystol. Shpg. wt., 3 lbs.
ME-553 MODEL M-6 6 meters 5.00 Down. Net 25.95 ME-554 MODEL M-10 10 meters 5.00 Oown. Net 23.95 HE-555 MODEL M. 1515 meters 5.00 Down. Net 23.95

MODEL PI Power Supply. For Tecratt converters. Pro vides 6.3 V AC@ 3 amp ond 200 V DC@ .05 amp . Size $51 / 2^{\prime \prime} \times 91 / 2^{\prime \prime} \times 5^{\prime \prime}$. For 110.120 V AC, 50.60 cps. ME-5\$2 ............ Shpg. wi., 6 lbs................Nof 19.95


## R. L. <br> DRAKE TVI FILTERS

FOR USE AT THE TV RECETVER
TV- $300+1 \mathrm{P}$-Cuts of below 52 mss. for $300 \Omega$ line
TS-150
TV-72HP os above, but for $72 \Omega$ line.
TV-72HP os above, but for $72 \Omega$ line.
T5.311
TV-300wp [RCA plug-in) for 2 CA receiver Net 1.50 Net 1.50

T5-112
Net 1.30
TV-100LP Attenuates above 54 me. Handles 100 wolls 6.160 meters, 20 wolfs on 6 meters. for 52 line. T5.313

Net 5.83
TV-1000LP os above, but hondes 1 KW 6.1 s0 meters, 200 walts on 6 meters
T5.314
Nel 14.65
MOSLEY
'TRAP-MASTER'
BEAM

## ANTENNAS

Model TA-31 - Three olement beam providing up to $:$ db gain on the 10,15 , and 20 meter bonds. Trap design provides broodbond performonce ond stobility - beom eosily handles of full kilowott of AM signol. 25 db front-to-bock rotio, SWR 1.1/1, or less, of resononce. Beom length 14 ft., element length 28 ft ., Shog. wi., 53 lbs. AN-53WX 10.00 Down .....................t 99.75 MOSLEY TA-33 "Junior," similar to above, but only 300 wotts AM. Shpe. wi., 28 lbs
AN-SAWX 7.00 Down
Net 69.50
Model TA- 32 - Two element version of TA-33, with 5.5 db forword goin, 20 db front to bock rotio, SWR 1.1/1 or betrer. Handies to a full kilowoft. Shpg. wf., 32 lbs.
AN-5SWX 7.00 Down.......................Net 69.50
MOSLEY TA. 32 "Junior," Similar to TA.32, but 300
wotts AM. Shog. Wt. 22 lbs.
AN-SOWX
S.00 Down
49.50

ALL OUTDOOR ANTENNAS ON THIS PAGE SHIPPED EXPRESS ONLY
SELECTED AMATEUR, MOBILE, AND CITIZENS BAND ANTENNASANTENNA SPECIALISTS

## MOBILE

m. $3896^{60}$ Stainless Steel Mobile. With remar. oble odoptor (con be cut to length). Shpg. HE BSowX HE-650 WX Net 4.35 strikes object. Shpg. wt., I lb. strikes
HE-65
1 HE-6S

M-19 10. 5.20 evers Aurentil Nel 1.95 ment necessory. Weather-proof. Compoct. Shps. WE. 116. | HE .652 |
| :--- |
| $\mathrm{M} 5.3635^{\prime \prime}$ chrome ploted solid mast extension wlith | coupling nut. Avoilable in 6 lengths either chrome or stoinless steel (both solid). Shpe. wi., its HE-653

Net 4.55 M.9A Heavy duty spring. Cod. plated. Shps. wt. 31 bb. HE-654
M. 3 Aluminum base with block Polvester Fiber
4.77 M-3 Aluminum base with block Polyester Fiber. gloss, one piece insulator. Hordwore included. Sheg. Wh., 2 lbs. HE-655

BASES
BASES Ni 0.03
M. 13 Sames os M-3 but with coon fitting. Shog. Wl. 2 lbs. HE.056

Net 6.00 M-14 Same os M-13 but fitted for outside mounMing. Shpg. wi., 2 lbs.
HE. 657

N Not 6.90 HE. 657 HE-657 .................. $\qquad$ M. 15 Coox odoptor co
type. Shpg. $\mathrm{Wl} ., 1 / 2 \mathrm{lb}$.

HE-658
Net 2.25
M-85 6 meter Antenno. Cawl mount with 59" fexlble S.S. whip. Ideal for neal appearing. 6 meter wort. $54^{\prime \prime}$ lieod and gutter clip Inctuded. Shpg, wi., 4 lbi. Shpg wh

Net 8.97 HE-676
ASPR1 Roof tap ontenna 1108.176 . 450.470 MC). Mounts in $1 / /^{m}$ hole. S.S. whip has solder. less type cable connectar. No leod furnished. loss lype coble
Shpg. wi., 4 lbs. Shpg, ${ }^{\text {WI }}$
HE +877

ANTENNA ASSEMBLIES M. 1 Consisting of M-3, M-3A, M-38. Professiono Mize soring and $98^{\prime \prime}$ cutable stoinless stal whip with removable odoptor. Shpg. wi., 5 tbs. HE-659 WX
M-1D Consisting of M.3D, M-3DA, M-3B. As above but with bright mirror polished bose and spring. (Spring has chrome end mounts.) Shpg. wi., 5 lbs. HE-660 WX

Not 11.97 M. 3 Aluminum swivel bose. Shpg. wt., 2 ibs

HE-655
Not 3.03
M-3D Mirror polished iwival base. Shog. wi., 2 Ibs.
HE. 662
Net 4.83
M-3A Cad ploted spring for $96^{\circ}$ whip. Shpg. wi. 3 lbs.
HE. 663
M-3AD Brlght polished spring with Nel 2.04 mounts. Shpg. wh., 3 lbs.
HE-664
Chrome ond
 odoptor. Shpg. wi., 3 lbs. HE.650wx

## SPRINGS

M. 8 AA
4 lbs.

4 lbs.
HE. 606
M.9A Delure pail 3.65 duty spring shpe wi I It HE. 667 . Shpg wi., 1 it.
M.4 Whip Net 4.77 HE-648 hold down ello. Shoo. Wh. 2 Ibs. HE-668
MODEL ASP. 143 DOUBLE CHAIN BUMPER MOUNT Codmium plated alloy steel interlock MOU . 2 .: Codinks um ploled ollor sleel in erlock ing 2 links ossure secure mounting far cepts $3 / 0=24$ thread of spring or whip. Shpg. cepis $2 / 24$ thread of spring or whip. Shipg. HE 669
459.63

M. 2227 me ppound plone ontenno. Chrome ploted brass astiotor ond rodials are telescoping and moy be removed from mounting bracket. All hordware supplled. Accepts PL. 259 connector. Shpg. wi., 4 lbs.
HE-670WX
Nell 15.95
M. 27 Some as M. 22 except vertical rodiotor and rodiol ore $108^{\prime \prime}$ stainless steet. Shpg. wi., 4 lbs.

## HE-671WX <br> 5.00 Down <br> Nel 28.50

ASP-63 For portable tronscolvers. Vinyl covered coil wound onto 40" whip. Complete with Pl. 259 connector. Shpg wi., 2 lbs.
HE. 672
Net 7.77
ASP-185 Aulo gulter clomp antenno. fdeal for temporaty use. Has Vinyl covered loading coil wound for 27 MC . Complete with $12^{\prime}$ RG58/U cable ond PL-259 odoptor $40^{\prime \prime}$ whip. Shpg. wi., 2 lbs.
HE-673
Net 15.40
M-23 Mobile rear mount. Consists of $102^{\prime \prime}$ S.S. whip plo'ed spring. aluminum swivel base and $15^{\circ}$ of RG58/U cable with PL. 259 connectors on both ends. Whip gulter clip included. Shpg. wi., 6 lbs.

## HE-674WX

Net 18.90
M. 20 Window Mast with Mounting Bracket hos $96^{\prime \prime}$ tele scaoing chrome plated bross tube ossembly Golvanited scoping chrome plated bross fube ossembir. Golvanized bracket with $90^{\circ}$ odiustment. For window sill or verticol surfoce. Shpg. wi., 2 lbs
HE-675 WX N.......... (Not Illustroted)
Net 7.50

## "MASTER MOBILE" ANTENNAS AND MOUNTS



Na. 613. VHF Rooftoo ontenno for 140.165 me. Staintess steel wire, 10 ft. coox, delune fittings. Shpg. wt.. 5 lbs. HE-700

Net 4.85
No. 113 VHF gaffop antenna withaw delure cannections. Shpg. wi., 5 lbs
HE-701
Net 3.88
No. 100.40580 " Whip threoded $3 "$ stud shpg wi 2 Ibs.

Net 4.85
No. $100.96590^{\circ}$ Whip, threaded $3 / " N^{*}$ stud. Shog. wt., 3 lbs.

Net 5.14
No. $100.96590^{\prime \prime}$ Whip, plug and $3 / 16^{\prime \prime}$ dio. Ifar Model 92 exf. Shpg. wf., 3 lbs.
HE-704WX
Not 4.41
No. 92 Extension for 106 series whips $181 / 4^{*}$ long, $1 / 0^{* 1}$ HE.705

Nel 3.43
No, 750 Delure vor, ont, coil. Coveri 10 thrw 75 meters. Silver-ploted, single-turn contoct, positive spring. Escentric com conioct, way Iurn selection. Automatic lock. Shpg. WH. 7 lbs
HE. 706

Net 14.65
Uliro. Hi O" Colls for $80-40-20$ \& 15 meters. " $O$ " over 515. For wie with $38^{\prime \prime}$ base section, $60^{\prime \prime}$ whip. Precision mode, ruggedized construction. Diameter $2 \frac{1}{4 \prime \prime}$ (specity mode, ruggedired construction. Diamet
bond when ordering). Shpg. wi., 4 lbs.
HE-707
Net 5.14
Na. 711 Strain-relief "Flex-R" helos prevent layding coll HE.708

Not 1.91

No. B1080 All-band bose-loading ant. coil for 80.40.20 13.10 meters. $96^{\prime \prime}$ whip included. Positive tacking oction whio provides tight and occurate cantoct. Slide in or out to final loading point and loct whip in place. Shpg, wt., HE-709wx

Net 16.59
HE-709WX
No 232 C
C swivel base.

Ning caox cann., body maunt. Shpg, dauble.to
HE.7io
Net 8.57 No. $132 \times$ Heory-duty, double-topered sprling, caax. conn. body mount. Shpg. wt., 6 lbs.

## HE-7i

 HE-7 il ${ }^{\text {No. } 232 \times S S C \text { Heovy-duty, double-topered springs, coax. }}$ conn., spec. stainless. Shog. wto, 6 lbs. HE.TI2 Junior Bumper Mount double-to...Net 14.65 No. $140 . j$ Junior Bumper Mount, double-topered spring. Shpg. wi., 3 lbs.HE-713
Net 4.09 No. lifox Heovy-duty, double-lopered spring bumper mount. Shog, wl., $41 / 2 \mathrm{ibs}$.
HE-714 Rigid-

## Shpg. wi., 5 lbs <br> HE-715 5

No 2 2s .. Mlero. 2-Moich............................ 7.79 Notching Micro-2-Match for micrometer impedonce on all bonds any for modle ant canstruction 4 used max. inductonce. Complete with coaz odopter kil. Shpg

## wi. 4 lbs. <br> We. 41 lb <br> HE. 716

Ne1 7.79
No. 2495.6 "Moster Matcher" with built-in field strength meter. Automotically tunes bond fram driver's seat. Motordriven variable inductonce. Automatic panel light indicates when roller of minimum inductance position. S-voll model. Shpg. wh.. 9 Ibs.
WE-7 ${ }^{\text {STM }}$

MASTER MAGIC WAND COMBINATION COIL \& WHIP

## A newly designed single band cail and whio ontenno com.

 bined in one single compoct unit. Alt models ore tap loaded to provide tap perfarmance. Rodiator is waund over topered fiberglass whip for moximum strengthNO MMBIO 10 meters, 5 ' lang Shog. wi. 4 lbs.
NO. MMB10 10 meters, $5^{\prime}$ lang. Shpg. wh., 4 ibs
HE-718WX
Net 8.77
NO. MMBIICilisens band, 11 meters. $5^{\circ}$ long. Shpe. wh. 3 lbs. HE - 719 WX

Not 8.77 HE-719 WX
NO. MM815 is meters, 5 ' long. Shpg. wt., 4 lbs.
HE-720 WX
Net 8.77
NO. MM820 20 meters, $5^{\prime}$ lang. Shpg, wh., 4 lbs.
HE-72 I WX
NO. MMBAO 40 meters, $6^{\prime}$ long. Shpg. wi., 4 lbs.
HE-722 WX
NO. MM880 80 meters, $8^{\circ}$ lang. Shpg. wi., 4 ibs
HE-723 WX
Nel 9.75
IOH TENNAHOLD Prolects antenno, prevents whipping and damase to antenno. Easily offoches to car. Shpg. wf. 1 lb.

## HE-724

Net 98
NO. E-2-295. E-2.OFF, Antenno Connectors connect or remove your loading coils, whips or mounts in a iffly. Na tools needed. Stainless steel construction. Shpo. wi.lib HE-72S
NO 444 Heay duty sping bumper mount wirel bose NO. 444 Heavy duty sping b
chain mount. Shpg. wt., 3 tbs.
HE-72
Net 17.44
HE-726
5 Threaded
HE-727
Nel 7.79
NO. GP-4 Ground plane with 4 radials for motch to 52. ohm coox. Complete omateur bond coveroge. Specity other frequencies. AHoches to most with V-bolts (bolts ond mount brackets supplied). Special alloy construction withstands corrosion and weother. Shpg. wi., 6 lbs.

Net 5.83

## AMATEUR KEYS AND EQUIPMENT Save 331/3 to 50\%



## NEWI CODE PRACTICE SET

| A budget itom for the beginning amo odiustable soring tensi groups. Kay ho ble confoct clooronce. High and adjustobuzzer hos freoronce. Migh frequency justment with lock nuts and tension od stant Irequency. nuts to assure can. insertion of hood set by provision for ifing posts with knurled by meons of bindscrews. For Individual, giontening

LAFAVETTE SPECIAL
 Ilstening. Uses Burgei, group or remote

 wh., 2 ibs. fless length $8 \mathrm{~V}^{\mathrm{m}}$. Shpg MS., 2 lbs. (less bottory).
MS-438-Code practice sot.-Not 1.59
BATTERY——urgess \#2.....Net . 13
MS-36-Stethoscope Meadser

Net 1.39


## NEW! Lafayette "BRASS-POUNDER'S"' KEY



- WITM BALLEEARING PIVOTS - SOLID POLISHED.BRASS BASE A better quality precision-made key designod for hard usage. Spring tension and contact clearance adiustments; 3/16" silver contocts; odjustable ball-beoring pivots; Circuit clos. Ing switch. Bas@ $3^{\prime \prime} \times 2^{\prime \prime}$; overoll size $5^{\prime \prime}$ $23 /{ }^{*} \times 1.1 / 16^{\prime \prime}$. Shpe. wr., $11 / 2 \mathrm{lbs}$.

MS-42t-relegraph Koy..Net 1.95

NEWI High Frequency CODE PRACTICE BUZZER

2.50

Adjustable frequency buzzer ideal for individual or group code practice. Perfect code item for the ham shack. Black molded phenolic housing. Works with $11 / 2$ volt batiery. Screw odjustment for changing tone. $1 \%$ "diam. $x 1-1 / 16^{\prime \prime}$ high. Shpg. wh. 60 oz.
MS-436-Buzzer.

## AMATEUR，SHORT WAVE，CITIZEN BAND COMPONENTS

## MOBILIER <br> SAFETY MIKE

－hEAD－MOUNT LETS YOU KEEP BOTH HANDS ON THE WHEEL－CRYSTAL AND CON－ TROLED RELUCTANCE TYPES


Hare is your key to safo，pleosont and eficient mo－ bile operation．This hoet resistont，vibroilen proof milke is indispensable to 35 s operation．Also useful Cor AM operation In conjunction wirh o fool swifch． Constructod of stolaless steel and aluminum for rMy－ gedmess ond light weight，Howband con be odfusted by thend pressure for best fit and position on operes ter＇s heod
 Ity，shock and vibration．Tepponse 400.3000 cps． Shas．wi．，I lb．
HE－750
Net 17.50
CEYSTAL TYPE．Destoned primarity for fixed spertion uses．Wesponse： $100-6000 \mathrm{cps}$ ． 5 hpg ．Wti，I Ib． HE－75

Nof 15.00

## LAFAYETTE CITIZENS BAND 27MC．COLLAPSIBLE ANTENNA

Ideal for mobile or haed transceivers，miniofure portoble and porkel trondetor cadios，and a hast of similer applico－ llons．The 4 section ontenno is mode of chrome－ploied bress and plugs into o jock．Measures $48^{\prime \prime}$ fully extended ond retrected is $11^{\text {w }}$ to focilitate corring in Dockif．Com． plete with o tesible plostic cose ond slip－under protecting hop．Shpg．wl．， 8 or．
1－440
Net． 76

## CROWNE TRANSISTORIZED SHORTW CONVERTERS －ADD SHORT WAVETOT YOUR RADIO COMPITIY TRANSISTIGIIED

Thew units plug directly into the outo rasio．When op－ eroting．they tune the shert wove bond，when not oper． afing the oufo rodio will tune the stondord broodcost bond． Converters utilize tronsistorized circuitry and mercury type batteries ossuring long frouble－free Ilfe．Sire only ＂．Units ore housed in oluminum cave，with grey hommertone finish．Complete with instollotion ond operolling instructions．Shpe．wf．，I it

| Steck No． | Alfr．No． | Prequensy | Net |
| :---: | :---: | :---: | :---: |
| HIT．700 | 594 | 200．500kC | 15.50 |
| HE．761 | 59 m | 2100．3000KC | 15.50 |
| HE．782 | 59MH | 3700．4600KC | 15.50 |
| He．763 | －595 | 25.45 mC | 16.75 |
| HE－74 | －5956 | 45．54MC | 17.95 |

＊Specify opproz．center free．or bond required．

## GONSET 6－METER

4－ELEMENT BEAM
Four element yogi for 6 meters． lorgely pre－assembled lor eosy installation．High forword goin． Includes speciol bolun for bol． Includes spesiol bolun for bol－ ance ond motch of folded－dipole－ driven tement to 52 －ohm ceor． Model 1523 6－Mefor．4．Element Beom Shpg：wt．． 13 lbs． HE－533WX 5.00 Down

Net 25.75
Model 1621 Orooping Ground Mono Ant．for 2 －mefers lihos．Wi．， 2 lbs．） ME－534


Medel 1523


Model 1621

MOSLEY CITIZENS BAND 27 MC ANTENNAS
－CONSTRUCTED OF DURABLE UGHT WEIGHT ALUMINUM DEAM AND GROUND PLANE TYPES

MODEL A－311 3 ELEMENT BEAM 9.3 db goin over di－ pole means effective radiated power in multiplied by 8. power of o 40 wath m miter on o dipole．Boem is $12^{\prime}$ long． tuning rodius is 9.5 f ．Shpe．wt．， 30 fb ．
AN－S7WX．
5．00 Down
Not 37.50
MODEL V－27．GP GROUNO PIANE．Perfoct for communt－ cating with mabilos．Base is constructod of high－impoci require guying．S．W．E．1．2－1．Includes Antenno，base mount，and 4 rodials．Shps．wt．， 20 lbs．
AN－Sawx．
． 5.00 Down．
Net 34．95

## HY GAIN 27MC CITIZENS BAND DIPOLE <br> －portable <br> －mounts on anr <br> surfact

MODEL CD．High 制cioncy clitzens＂Robblt Eors＂for Pop performonce indoors or portoble use．Telesceping chrome pioted whips extend to 45＂and felescope down to $15^{\prime \prime}$ for cosy storoge，and corrying．Suction cup bose for quick ond easy mounting on lronsceiver，wolls or window panes，erc．May be oriented elther horizontolly or verticolly．High Hefiency bose looding coils Include exclusive Hy．Goin＂I＂motching network for perfect 50 ohm motch．Looding coils and motching network en－ closed in polyethylen covers．Provided with six feet of
HGS8U cooxial cabie ond PL2Sp cooz connector．Shpe． wh．， 5 llas． ME－770

## HY GAIN

 HALOS－POR 6 and 2 mevers


Hole type ontennos for the mobile．Matches elither $\mathbf{5 2}$ or 72 ohm coox mode possibte through use of hy－gains exclusive gemmoxiol gommo molch system．No exfernal motching wections reavired．Antennas are complefely weotherproofed and ore constructed of sturdy，lighiwelght aluminum．
MODEL HH－ 66 meter modal of above．Shpg．Wh． 5 it ME－771 $W$ K

Net 12.95
MODEL HH－2 2 meter version of obove．Shpg．Wi， 3 lbs． HE－772WX

Not 5.95

## DOW－KEY DKC－RFB BROAD BAND PREAMP <br> －INCREASES GAIN UP TO 6 <br> ＂S＂UNITS ON ANY RECEIVER <br> －INDISPENSAELETO THE DK <br> 

Now you con soup up any medium or less sensilive raceiver without olternating the circultry．Operates on all bonds． 1.5 through 30 mc ．Boosts signols 1 to 6 db up to 30 mc and up to 2 db of 60 mc ．Preomp weighs less thon six ounces，ond meorures $13 / 4^{\prime \prime} \times 2^{\prime \prime}$ ．No odiustment of receiver or pre－omp is required．The trs is odvontogeous to moblle equipmont where converters ore used，lequires 125.175 OC volis of 7 mo ，ond 6.3 volis AC of .3 omps ． Us， SCBS pube．Shpg．Wi．， $3 / 4$ lbs
NIT－780

## mosley vertical ＂TRAP－MASTER＂

## 3－BAND ANTENNAS

Compact units tor $10-15-20 \mathrm{~m}$ ．ceveroge．Au－ tomatic bondswitching，low SWR．Mointoins electrical quorter wovelength over entire bondwidth．SISTs oluminum construction bondwidth．sists oluminum construction． Supplled with bose plote，guy lines，hord Supplied lin boi wore，and instructions．
MODEL V－3 Verilcal（roted of 1 tw）．Size $11^{\prime} \mathrm{s}^{\prime \prime}$ ．Shpg．wh．， 8 lbs．
AM－59WX．．．．．．．．．．．5．00 Down．．．．．．．．．．．Nel 22.95 MODEL V． 3 JR Vertical froted at 300 w ． AM．）Sizes $11^{\prime} 9^{\prime \prime}$ ．Shpe．wi．， 6 lbs．
AN－6OWX
Net 17.95

## MOSLEY＂TRAP－MASTER＂ 10 THRU 40 METER VERTICAL

An excellent low－cost ontenno for DX．Covers 10 thru 40 meters withoul bondswitching．An electrical quorter wovelength on each band with lowangle rodiotion．Low SWR with response flot across full band width．Weather． proof traps and bose loading coll ore of ＂Mi－O＂design，wound on prooved polysty－ rene forms．Mointoins resononce points under wide varialions of temperature and humidity． Roted to 1 tw ．Lightweight SiSTb oluminum tubing telescopes to 20 ft ．Pre．funed，pre－ drilled，color－coded for fost ossembly．Comes with oluminum mounting plate，ceramic base insulotor，nylon guy rope，hardwore ond in－ structions．Requires four 30 ff ．redials．Shpe wl．， 12 lbs．
Model V－4－6 $10-40$ meter verfical onfenno． AN－SIWX ．．．．．．．．．5．00 Down．．．．．．．．．．Net 27．es Model D－ABC 8oselooding coil for 75 \＆ 80 meter operation of Yat－6 ontenno．Roted 80 meler operotion of V－4－6 ontenno．Roted to handle 1 hw（AMM）．Spoceowound coil． hoory－duty ceromic form．With coox connect－ ors．Shpg．wi．， 3 lbs

Nel 14.95

## MOSLEY＂TRAP－MOBILE＇

3－BAND WHIP ANTENNA
for 10，15， 20 meters


Three bands without bandswisching．No mechonical de vices or reloys．Lifetime stolnless steel construction in onti－sway design．Use with standord base－loading colls for 40 and 80 meters．Overall length of $7 \mathrm{ft} .81 /{ }^{\prime \prime}$ provides electrical quarter wave on each bond with low SWh． moisture－proofed colls and enclosed praps．Base stud $1 / \mathbf{s}^{\prime \prime}-24$ ．Hondles up to 300 wotts．Shpg．wi．， 6 lbs Model MA－3＂Trop－Mobile＂3－bond whip
AN－A2WX
Not 19．0s

## MOSLEY TOTE－TENNA

－MOUNTS ON WINDOW SIII
－tri－band 10．15－20 meters
－MANDLES 300 watls

At lost，the dilemmo of the oportment dwefler hos been solved．Now Mostey hos perfected vertical which mounts on any window sill．Tofe－Tenno is o full electrical $1 / 2$ wevelength on $10-15-20$ meters，and is volloge fed ihrough －freauency－iensitive I network．Moximum copocity 300 woits AM．Antenna opens to 14＇，and collopres inte o space fusi $41 / 2^{\prime \prime} \times 8^{\prime \prime} \times 38^{\prime \prime}$ ．Constructed of durobte SIST6 aluminum．Spring ond nyton cord errangement permits ropld assembly．Inctuder ontenno，funing unit，coos line． ond window mount．Shpg．wi．， 8 lbs．
ME－791 WX．Mostor TT－31．．．．．．．．8．00 Down ．．．．．．．．Net 80.00 MODEL TT－－31AO CARPYING CASE for T1－31．Makes Your ME－74
5.00 Down Net 27.45
MODEI 色． 6 SWh BlliDGE for use with TT．31．Will hondle IKW．Shpg．Wi， 5 lbs
M胃－793．．．．．．．．．．．．．．．．．．．．．．．．． 5.00 Down
No1 47.45
MODEL TT．31X TOTE TENNA with all occessories listed obove．ShDe．wh．， 20 lbs．
HE－7P4Wx．

# BUILD YOUR OWN 

## QUALITY K/T

## NEW! LAFAYETTE 15-IN-1 TRANSISTOR EXPERIMENTERS KIT A TRULY REMARKABLE VALUE practical-Educadiowal-Entertaining

EXCITING PROJECTS BUILD ALL OF THESE



ASSEMELE TME AASIC COMPONENTS - TMEN WIRE CACH Cllatir EXplaiklo circuir or simply conMICTING TME PROPER LEADS.
TEE MOST CETTRNSIVE TRANSISTOR LAB KTT IDBAL FORE STUDENT - HABBYIST - EXPBRIMENTER
Lafayette's new 15 -in. 1 transistor experimenters kit is the most practical introduction to the understanding of the operation of transistors - since it utilizes basic transistor principles and circuitry. Its unexcelled simption. You build pract!provides a fascinating and educational program of instruccron. and applications.
This versatile kit is supplied complete with transistors, relay, photosell, dual headphones and all necessary items including lead wire, solder. You also receive an easily underslood instruction manual which explains just how each of the 15 circuits works. Battery powered, the kit is shockproof and sateideal for beginners. Shpg. wt. 4 lbs.
$\mathrm{KT}-134$ A 15-in-1 Transistor
KT-134A 15-in-1 Transistor Experimenters Kit (Less botiorles).........Net 14.95
BA-19ABurgess 2 or RCA VSO34 (B (equiled)
Shpo. wf., 4 Oz.EA
.och 104
,

## NEW!

## EXCIIING "EXPLOR-AIR"

 RECEIVER KIT 4 BAND

- 4 Bands for fotal coveroges - 550.1600 Kc broadcost band
- 1.7-5.0 Mc., 5.0.14 Mc., 14-30 Mc. shortwave band í
- Complete bondswitching from front panel
- sulti-in sig 4" PM Loudpeoker

The most sensational shortwove economy re. ceiver kit ever affered. A complote shartwave and standord broagcat set whish sovers the ontire region from 550 wilocycles to 30 megocyeles. Four whole bands of fascinoting programming unovolloble elsewhere. Perfect for students of lomguages, rodio amateurs and casuol Hiseners.
Only o regenerative circuit con offer such omazing performance and yef be so simple to build. Building this the kht is an absolute pleasure - it's 10 well designed you can't go wrong. Kit includes all the ports you need, and the detelled step-by-step instruction book with its glant pictoriol drowings shows you luit how to put them together
One frant panel knab does all the bondswitching of the Ajek of the wrist. immediotaly toking you fram bend to bond. All colls are prowound for greater occurocy. This $k l t$ is so easy to build o child who con read could do it (ond many alreody hovell the chossis is cempletaly isolated from the sir cuit, to there is no shock hozerd.
This precision radio kit hi jusi full of extro features. Comple:e 4 bond coveroge of broodcest stations, infernotional broodcost bandi, omoteur, morilime, fire ond pollce services, res, even sotellite signolsl Big 4" speaker and sensitive circuit with 50C5 oufput stage and 12AK7 regenerative detecior and amplifier slages give rou all the volume you want. Phone lock for privocy automotically disconnects speaker. All controls ore on the fron ponet, On-Of Votume, Moin Tuning, Bond Spread, Bondswitch, Antenno Tun. ing, and Regeneration. 110 Volt 50.60 cucle AC.DC power supoly lots you use this fine set onywhero. Sizel $10^{\prime \prime} \times 7^{\prime \prime} \times 5^{\prime \prime}$. Everyihing needed for unexcelled reception is combined in a compaci, economical package.
KT-135 EXPLOR-AIU RECEIVER KIT (Less Cobinet) w..5• Ibs....... 18.50 ML-150 - Leatherefte covered Wooden Cabinet for obove I lb.....Net 2.75


- WITH CLAIREX CADMIUM SULPHIDE PHOTOCELL
- adjustable super sensitivityWORKS WITH JUST A FLASHLIGHT at 250 FEET!
- NEEDS NO SPECIAL HIGH-INTENSITY LIGHTS
- instantaneous or sustained opERATION ON THE FLIP OF A SWITCH!

Lofoyelles latest achievement in o super-sensitive photocell relay kit. Ideal for sus. tdined oseration required for burglor alorms, door buzzers, for furning on porch and home lis ths of night to diccourage prowlers when awoy in the evening. Excellent for instantoneeus on-aff operation required for counters, pockoging, door opening, motor octivotion and countless industrial opplications. A flip of the switen converis unit from instantansous "on-aff" to sustained "on" operotion. A simple push on the "RESET" switch opms the external circult ond furns off the olorm. The unif operates on 110 volte AC ond incorporates the efficient 5823 cold cothode tube, permitting longer life since there ore no filamonts to burn out. The controlled circuit is plugged into a convenient there ore no fitamonts to burn out. The controlled circuit is plugged into o convenient llov AC oufput socket. A simple chonge in wiring fin instructions), os woll or con. venient input ferminels, enoble you to supply the exfernol circult with ony desired valtoge, Relay centocts roted of 3 amps permitting up to 300 wotls external load on



## NEW! Lafayette's SUPER-TROL R/C EQUIPMENT


(A) RADIO CONTROL TRANSMITTER: Assembled-tested-guaranteed. No license examination required for operation. Crystal controlled for stability and to meet F.C.C. regulations. Uses powerful 3A5 tube for range of approximately one mile. Will operate any $27.2 \overline{5} 5 \mathrm{me} \mathrm{R} / \mathrm{C}$ receiver. Overall dimensions

F-248
Net 14.98
Batteries required: Burgess U30 (3 needed) ...... 1.75 ea. Burgess \#2 (1 needed) ${ }^{\circ}$. . . . . . 13 ea.
(B) RADIO CONTROL, RECEIVER: Completely wired and tested receiver-extremely sensitive and stable. Completely encloseal - ideal in boats - or case may be removed If desired. Ingeniously conatructed to withatand vibration and shock. Features external fine tuning - antenna "snap" lead - plug for jower and actuator connections. lideai Companion for F-249 Tranamitter and F-327 Servo shown edmewhere on this pare. Requires one 1.5 V battery and one 67.5 Volt battery. Size determined by use. Measures only $3^{\prime \prime} \times 2 y_{i} "^{\prime} \times 1 / 3^{\prime \prime}$. Complete with tube and inntructions. Less batteries. Shpg. wt., 8 oz .
F-208
Net 8.86
Botteries required: Burgess UX45 (1 needed) BA- 230 ....... 2.07 ea. Burgess Na. 2 (1 meeded) BA-137...... . 13 . 00
SPECIAL COMBINATION OFFER
Consists of R/C Transmitter (F.249). and R/C Receiver (F.208) F.259 - Combination


A nolural vor remole cantral receivers, it is highly senstive, and buill to $w$ Thstand severe croshes. The smallest cammercial jab ovallable, it weighs less than $1 / \mathrm{oz}$. Foctory adjusted to pull in of 1.4 MA drop out af 1.2 MA D.C. Single pole, double throw. Used in oustanding R/C receivers. $5,000 \mathrm{ohm}$ coil. IMPORTED TO SAVE TOU MONEY.

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F-260-Reqy ............Shpg. wt., 2 08..............Net 2.75
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F-260-Reqy ............Shpg. wt., 2 08..............Net 2.75
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27.255 R/C CRYSTAL


Reg.2.95
1.95

Specially monuloctured far Lotayette. Designed specifically for use in Z/C madel planes, boots, cars. Dic. Law.drift - high output - dependable frequency control. Tolerance $13 / 16^{\prime \prime}$ wite $m 7 / 16^{\circ}$. $13 / 16^{\prime \prime}$ wife $\approx 7 / 16^{\prime \prime}$ deep $\times 116^{\prime \prime}$ high above pins. Pins on $1 / 2^{\prime \prime}$ centers. CP3" diam.

## MS.446

Net eo, 1.95

Once again lofayette spurts into the lead with its now amazing RC CITIZENS BAND IRANSMITIER. You'll morval of the neotne:s and simplitity of its layout ond of the dependability of its erystal cantralled sircuit. Fits comfortobly in the polm of your hand-yet is sa stable that it is unotfected by hond copositance ar matian. Has now atroctive wide. cale meter for visually tuning transmifter for optimum faciproaf performance. Has wide, nan-critical funing. Uies one o \& F W prewound coilno tedious winding of coitsl Tuning for moximum autput and antonno loading odiustment oosily performed from exterior of cobinet Complete with approved telescaping ontenno, moter cabinet, chossis, fube crystal. alignment tool, ofl ports ond easy stop-by-steo instructions. FCC forms fo nom-free dermit enslosed with kh. Size $10^{\prime \prime} \geq 4^{\prime \prime} \times 2 y^{\prime \prime}$. Shpg. wt. KT-127, less sotteries

Net 15.95
2 Burgess P45 (RCA V5218) Bottery @ 2.17 BA-133 ................ Net 4.34

## NEW! MULTI-PURPOSE ELECTRIC SERVO MECHANISM

- POWERFUL, MOTOR DRIVEN R/C ACTUATOR
- POSITIVE, INSTANTANEOUS ACTION
- for model soats and cars
tatavetre's new, matar driven, "pmate cantral servo-mechanism. Imported by tofayelte to sell for half the price of any comporable unill Corefully canstructed for power, durability and rugged use. Operates with ony single channel, remate contral recaiver and transmitter. When aperated at the prescribed 3 valts, the action is accurate and rapid. Provides far selective steeting and autamatic return to neutral. Exiremely afficient when used with madel baots at land vehicles. Habbyists will find uses far the servo-mectanism restricted anty by their imaginatian. Single pulse operation electranie neutrolizotion. Measures anly $21 / 2^{* \prime} \times 2^{\prime \prime} \times 13 /{ }^{*}$ averall. Includes instructians and linkage to extend octuatar arm. Shpg. w1., 8 azs.


## REMOTE CONTROL ESCAPEMENT

## - AT THE LOWEST PRICE ANYWHEREI



MATCHING CRYSTAL SOCKET: Made of special law lass phenalic. Easily mounts fush ar stand-ofl. SmallEasily mounts
MS-447
Net eo. . 15
4.95


A sturdy 2 arm self-neutrallzing escopement. Campletely wired (nat a kit). Converts electricol impulses from remate control receiver to mechanical mation for varying movement of plane, baot, or cor. Four $90^{\circ}$ ratatians-iwa by ormature activation, two by neutralization. Has ratchet gavernar for maintaining faalproaf ratating spoed. Weighs
2. -5 only $7 / 8$ oz. Size: $1.3 / 8^{\prime \prime} \mid \pm 2^{\prime \prime} \mathrm{W}$ overall. Shpg. W1., 5 oz. F. 255

REMOTE ENGINE CONTROL ESCAPEMENT
Lafoyolto's excliting new air-bleed self-neutrolizing remate ongine control. Vories angine lafoyolte's excling now air-bleed self-neutralizing remato ongine control. speed of your model. Neutral position of one arm is tow speed, neutral pasitian af 2nd
arm is high speed, and maintoined activated position of elther arm (armature octivalod) stops motor. Perfect mate for lafayelte F-256. Compoct and weighs only $3 / 4$ or. Re. quires $1-1 / 2$ valt battery. Low current droin. Size: $1.5 / 8^{\prime \prime} \times 1^{\prime \prime} \times 3 / 4^{\prime \prime}$. Shpe. wh., 5 oz. F-257.

Net 3.45
COMPOUND REMOTE CONTROL ESCAPEMENT - LAFAYETTE'S AMAZING VALUE IN A 4-ARM SELF-NEUTRALIZING

Ideal for nobile ar fixed transceivers, minlature portable and pocke Pransistor rodios, wireless broadcosters and a hast of similar applications. This 5 -section antenaa is mode of cirome-plated bross and plugs into a jack whict is supplied Meosures $38^{\prime \prime}$ filly extended and retracted is ${ }^{\prime \prime \prime}$ to foci itato corrying in pocket. Cames in a flexible plastic cose with slip-under protecting flop.
F-343 Telossoping Antenno
miniatme TELESCOPING ANIENNA

## RETRACTS to 9 INCHES

Net 598

## COMPOUND ESCAPEMENTI <br> - NO NEED TO WORRY ABOUT LOSING YOUR MODELI

You have no sequence of operotion to worry abouth Simple as A B CI One pulse always gives right furn: two pulses always gives left turn. Three pulses closes the circuit for the supplementary contral such as mator ( $\mathbf{F}$-257) or elevator, if used. The rudder always re turns to neutral position after any furn as soan as transmitrer theying button is released. with ratchet governor for foalproal operatian. Sturdy construction-low current drain. Uses $1.1 / 2$ valt bottery. Weighs $1-1 / 8$ oz. Size: $2.7 / 8^{\prime \prime} \mid \approx 1.9 / 16^{\prime \prime}$ overall. Shpg. w1.. 608.

F-256

Cafayette transistor superhet kits

## New 6 TRANSISTOR SUPERHET RECEIVER

## WITM LATEST MPN-PNP TRANSBSTORS

- ge 2nibsa auoio output transistors
- $100 \%$ SUBminiature parts - no compromisesi
- laboratory desigmed-semsitive, selective, stablel
- Class e push-pull amplification.plenty of power.
- for group and private listenimg
- hew 28 page instruction manual


## Superd Performance! Incomparable Value!

## FOR GROUP AND PRIVATE LISTENING

Transistor-wise Lafoyette proudly presents its newly revised 6 Iransistor Superhel Recoiver Kit KT-119A This improved model uses the lalest GE NPN-PNP Iransistors in an ingoniously engineorad, loborotory tectod circuit providing superb parformance and an omazing suberio commercial quallity. The circuit leoturen a specially matched set of 3 If transformert, Oscillator Coil, Migh-Q Loop, Closs 8 Push-Pull Audio Amplification and optimum Transformer Coupling in audio and output stages. "Nos officient 21/4" speaker for ezemplary repraduction and sarphane iack for private listening. Complete with all parts, transistors, pro-punched chassis, but less battery and leother case. New 28 poge easy-fo-fallaw stop-bysteo Instruction book. S1ze $6 \times 31 / 2 \times 11 / 2$. Shpg. wt., 3 lbs
26.50 less case and battery

KT.119A - Complete Kit-Lass Case and Baffery..............Nel 26.50 BA. 180 Bottery $9 \vee$ Burgess 2 NG . Nol 1.30 MS.339A - Sturdy offractive brown leother case with carring strap for KT-119A. $6 \times 31 / 2 \times 11 / 2^{\prime \prime}$. Shpg. wt., $1 \mathrm{lb} . . . . . . . . . . . . . . . . . . . . N o t 2.75$



3 TRANSISTOR SUPER-HET POCKET RADIO KIT KT-116

- converter, 2 if stages, diode and audio output DESIGNER'S DREAM IN A TRUE POCKET SUPERHET RECEIVERI NO EXTERNAL ANTENNAI NO EXTERNAL GROUNDI
A hishly sonsifive, super-selective Irue sockel superhet receiver that will surprise you with ifs derformance over the complete broadcast band. fust place it in your shirt pocket, place the earphone to your ear, ond you're in for o treatl Eest of ollt No pasky anternal ontonno and ground lead to worry abaun the circuit uses 2 high frequency converter and If Transistors, 2 spectally motched if transformers for maximum power franifer, on ellikient erybtal diede for detection and a dependable Audio Pransistor in o single-ended oudio output sloge. The components are housed in on oftractive profestional-loaking plastic cose. Comes complete. with ON-OFF tnob and stylish station dial that uddt considerable class to the receiver's oppearance. Complete with all ports. trondial that cddi considerable slass to the receiver it appearance. Comple
sistors. case, dial and eary-fo-fotlow step-by-step insfructions. Less Boftery sittors. sase. dial and eary-fo-follow step.b
$4 \%{ }^{\prime \prime}=2 \%=1.1 / 16^{\prime \prime}$. Shpe. wi., I 16.
KT-116-Complete Kil less Battery
Net 13.95
M5-260 - Super power high output dynamic earphone for opilmum resulis................................. 3. 3 . MS- 367 -SENSITIVE ECONOMY DYNAMIC EARPHONE EA-400 Bollery OV. RCA VS300A



## 3 TRANSISTOR

 HI-FI PREAMPLIFIER KIT with Volume, Aass end Treble Controls WITH NEW GE 2N190 tRANSISTORS16.95

Lofoyelte 3 Ironsistor Hi.Fi Preampllfier Kit KT-117 provides the valtage goin necersary for the operation of even the lowest level magnetic corlridges and microphones. If moy be used with Hi-Fi equipment to provide stoble, low noise preamplificotion with oxtremely low power consumplion, zero hum and without any microphonics in herent in vocuum lube preamplifiers. It is ideal as o remate preomplifier since it is bottery operated and con be cannected by cable up to 175 f . from ossecioted equip. ment. It hos its own bass and Treble controls for improved auality of reproduction, ond uses 3 quality oudia transistors. Frequency liespanse is 2010 20,000 cyctes. 40 db monimum goin. Rero hum level; Noise level-opproe, 48 db below 10 millivolts in. put for high impedonce cartridget, better than 52 db below 2 millivalts for low im. edance cortridges: Four Inpult: Three phono inpuls-high output cortridges. high impedonce varioble refurtonce cortridges ond low impedonce low oulout cortridges: Microphone Inpul. From 0.5 to 1 voll outpul: Controls-Phono-Microphone. Hi-to level, Power.Volume. Boss ond Troble. Complete with oft ports, fronsistors, pre
 Shpg. wi., 2 Ibs:
KT.117-Complete Kit Less Batfery Not 16.95
EA.175 Battery OV sURGESS 2U6

## 1 AND 2 TRANSISTOR POCKET RADIO KITS <br> ONE TRANSISTO虫 POCKET RAOHO KIT - KT.97



An ideol, neot and low-cost fronsistor pocket rodio kit for students, hobbyists and experimenters interested in o procticat ond basic knowledge of tronsistor circults. Employs the new topped variable Ferri-loop ond a specially designed miniaturised 365 wuf vorioble copacitor lar super selective tuning. Includes a Crystal Diode defector and a relioble fransistor in o grounded emitior omplifier sloge for manimum output. Will give good reception up to 50 mile rodius with approz. SO ft. antenno ond o good ground. Comple: with tronsistor, crystal diode, plastic case, varioblo copocltor, topped Ferri-leop. resistor, copocitors, a neat prepunched metal chossis that motes advoncement to the 2 Tronsistor Kit eosy-os-ple. With simple, deloiled
 KT.97-Complete Kit (less earohone and less bottery)

## TWO TIANSISTOR POCKET RADIO KtI - KT-98

The 1 Transistor Poctret Radio Kir plus on odditional resistonce coupled tronsistor stage for increased sensitivity and greater output. Con recoive even the weaker stations with on appron. 50 It , antenno and ground. Includes all the KT-g7 ports plus
 ne ronsistor, 2 resistors,
: $1-3 / 16^{\prime \prime}$. Shps. wt. 1 ib
MT-P - Complete 2 Translitor Kit (less earphone and leis bottery).
MS. 111 Crystal Eorphone for KT.97 and KT.98
Net 4.95 BA. 154 Cottery $11 / 2$ V. 8URGESS 77

# POPULAR TRANSISTOR KITS 



2 TRANSISTOR REFLEX RADIO RECEIVER KIT

- for solar or flashlught battery operation
- NPN-PNP COMPLIMENTARY SYMMETRY CIRCUIT SUPER-REFLEXED FOR 3 TRANSISTOR PERFORMANCE


## - BUILT-IN "HI-Q" fERRITE ANTENNA

An efficient and ecenamical miniature receiver kit for earphone aperotion. Uses one NPN tronsistor, one PNP transistor and a crystol diode in an Ingonious refloxed complimentary aymmetry circuli for 3 Honsistor performonce. Gives surprisingly sood reception of local stations in most locations without oxternal ontenno or ground connections. Antenna plus-in load sup pliod for recteption af distont stotions. Current drain is less than 1 milliamp. Operates on 2 inexpensive penlight flashlight batheries ( 13 volts) ar will olve lifetime performonce in sunlight or under artificial light with use of amazing new shiten solar bottery (not supplled). Idool for the beoch, ball sames and other outdoor uses as well as for Indoors. Completo with all parts, tronsistors, diode, perforoted ehossih, two-lone. plastic caseo, wire,
 wt., I 10. KT-132-KIT (less oorphone) ................................. 11.95
 MS. 220 Solor bothery wt. 202 BA. 155 ponlight cells (2) w. Net eo. 10
MIGHTY SUBMINIATURE "HELIODYNE"' SOLAR SILICON BATTERY


- latist, most efficient trpe of sun battery
- USED BY ARMED SERVICES TO POWER ELECTRONIC EQUIPMENT
The mast efficient type of solar battery yet developed to generate electrical energy fram sunlight or from light rays fram other sources, Rated 3.2 volts of 2 milliomps. Ideal for opereting lafoyelte " 5 Sunfles:" Radio leceiver Kif or acy other receiver drawing up ta 2 mo of 3 volts. 1-1/16" $t \times 3 / 32^{\prime \prime} \mathrm{W}$. Shpg. tf .. 2 oz MS-420 - HELIODYNE"O SILICON SOLAR bATTERY.........Net 7.75


## 5 TRANSISTOR

 AUDIO AMPLIFIER
## KIT KT-104

Class "B" Push-Pull

- Bass and Treble

Controls with Preamplifier for Cortridge and Microphone Input

- Excellent as second amplifier
for stereo phono conversion
 mplifier stoge. Has more thon enough volume for designed preompliker soope. Has more hon enough volume hor overage sized phono Inputs: Crystal, ceromic and most hi-output magnelic phono cartridges; AM, FM and Transistor Rodia Tuners; mast magnetic microphones, and cirstol micraphones when used with a morehing input tronstarmer. Employs circuitry ar minimum distorfion. Has bass and treble sontrols for more enioyoble lissening. Transformer coupled in driver and class " 8 " push-pull output stoges, for cleon output and optimum perfarmance. Camplete with all parts, prepunched chassis, attractive front panel, hnabs, and eosy-fa-follow step-by-step instructions. $5 \frac{1}{y^{\prime \prime} \times 4^{\prime \prime}} \mathrm{m}^{\text {" }}$. Shpg, wi.. $316 s$.
KT-104 for 3.2 ahm speaker, less bottery.
KT-105 for 8 ahm speaker, less battery.
Net 13.95
ABOVE
BA-180 BURG. 2N6 or eq. 9 V . Shpg. wt., 5 or

TRANSISTOR CODE PRACIICE OSCILLATOR KIT


For those interented in mastering the International code, an audlo tone oscillator in essential. The circuit of thin transiatorized feedhack oncillator hiw the simplicity of the nron Rlow, the sisnal strenth of the It may be uned for solo practice, or two muy send wad receive with th may be uned for solo practice. or two muy send mondreeive Kith Resistors Condensers. Masonite Baard, etc., And Schemmtic Dierram. KT-72 LESS BATTERY Canmon AM-15-1-Single heodsel ............................... Net 1.18


An ideal Code Prectice Oncillatar far group and classroom code proctice, a. well as for those wha prefer laudspeaker to eorphone Ilstening. This aftroctive unit incorporater a well designed tronsistar oudios circult with o vorloble control for vorying the sional fone. You choose the plich which is most pleasing to yeu. Inpenlously sesigned on a neal prepunched metal chasis to fit around the mognet of on extro efficient speater. All the cnm: ponenti (ercepl the hey) are housed in $03-1 / 16^{\mu \prime} \times 23 / 4^{\prime \prime} \times 1 \%^{\prime \prime}$ ottractive moroon colered sound boa ocoustically derigned for superior speaker performonce. You'll be dellghted with the lane and volume of the signal. Complete with all parts, transistor, ipecker, case, ond simple step-by-stec, less battery. Size: $3.1 / 16^{\prime \prime} \times 2 \%$ " $=13 /{ }^{\prime \prime}$. Shog. wh., I ib.
KT-118-Complete Kif-l pit Key..................................Ne1 6.95 MS-319-Key for KT-118. Shog. wi.. $1 / 1 \mathrm{lb}, \ldots . . . . . . . . . . N e 1 ~ . ~ 69$ BA. 117 Boftery $221 / 2$ v. Eurg. Ul 5 or eq. wf. I oz..........Net 1.05

## TRANSISTOR-DIODE CHECKER KIT

## anOtmer lafayitte first

- qualitative check of P-N-p ond N.P.N TRANSISTORS FOR LEAK. AGE AND GAIN - ChECKS DIODES
- Checks selenium rectifiers

Lafayeffe's mied and praven pransistor checker is indispansoble for ultra fast, relloble fransistor testing. It checks P.N.P and N.P.N tronsistors far leakage and shorts on a multi-colored scale and indicates of ance whether tronsistor is good or bod. Selector switch permits difect GAIN reading an a callibrated GAIN scole withoul needle deffecting off scolo. Permits rapid check of diode and selenium rectifier quality by indicating farward and reverse current characteristics. Sturdy block bakeltite case and ottractive black baked onamol aluminum panel with white leftering. Cample: with detailed Instructions and up-to-dale manufacturers GAIN standards. $61 / 4^{\prime \prime}=33 / 4^{\prime \prime} \times 2^{\prime \prime}$. Shpg. wl., 2 lbs.

Net 7.95

7.95

## NEW! 4 TRANSISTOR


tolayelte"s new Super-Sensitive ATansistor Telephone Pich-up Amplifier with class "B" push-pull output for emcient speaker operation. Permils the whate family to enioy phone canversotions. Invaluable on long distance calls, os well os for aroup listening on business calls and conforences. No need for extension phonesl Just ploce the pichup coll under the telephene crodle base, or in cose of metallic base, near phone receiver and you'll marvel of how boudiy and clearly the iwo-way conversolion comes through the spooker. Uses transformer coupling for optimum performance. The kit comes complete with all parts Including tronsisfors, 3 transistor oudia transformers, epeoker, volume contral, an aftractive ripple.finish metallic cabinet, a precut metallic chossis thot mohes mounting and wiring of parts a "snap", wire and solder, las balfery ond pich. up coil. Includes easy.fo-follow illustrated instructions. Sise $41 / 2^{\prime \prime} H=41 / 4^{\prime \prime} W=41 / 4^{\prime \prime} D$. Shpg. wf., 3 Ibs.

-131 Complete Kit less Batfory \& Pickup Coll

Not 17.95

BA- 180 Battery 9 . Burg. 2No or ea. wi., $50 z$.
Net 1.30
Ms-16 Telephon Pickup Coll Shpg.wi., 4 or...

# Lafayette EASY TO BUILD KITS 



THE NEW
GENIAC
FASCINATING ELECTRIC BRAIN KIT


COMPUTES, REASONS, PLAYS GAMES COMPOSES MUSIC BORECASTS WEATHER DESIGN YOUR OWN COMPUTERS
OVER 400 PARTS 2 COMPONENTS

You build up to 125 enciting "electric broin" mo chines that fest Intelligence; code and decode; add sublract, multioly and divide; ploy itc-toc-toe; solve ouzzles: build o burglar alarm; cocson in syllogisms; ete. Hos speciol sircuifs for forecosting the weother and includes the now "De-sign-O.Mot" which alvet dozens of ertra experiments and mochines ond rells ou how you con design your own computers using Genioc components. Comes complete with 7 books and pomphlets and includes a booklel br Dr. Cloude Shasnon of mit on the use of symbolic anolysis in olay circuits. No soldering required-even - 12-yeor ald con make o machine thot will intrigue a scientist. Other books supplied include 64-poge "Simple Elec ric Brains and Kow to Make Them." Beginner Monual and witing instructions. Complete with mount ing rack and batlery. $16 \% "$, $11 \%$ ". Shpg. wt., 6 lbs KT-78-Genior Kif....


## BROADCAST-SHORTWAVE RECEIVER

 A high gain ertremety sensitive porfable sel covering the $550-1600$ KC breadcost bond plus the 6-18 MC short wove bonds. Operates either on 110 V AC. 110 V DC or on self-contoined botteries. A selection of different countrias indicoted on shortwow diol. Uses Iran core IF's and miniature luber including IU4, IUS, IRS ond JV4 plus o selenium rectifier. Altractive leotherette cabinat with semi-airglane dial. Kit is complete with tubes rectifier, cabinet and technical construction manual with coiy to follow schemotic and pictorial diograms. Less bottories. Shpg. wt. 10 lbs. KT-58NET 26.75
8A-136 Burg. N80 or equiv. wi. I lb.
3.15
1.05


## EICO TRANSISTOR RECEIVER KIT MODEL RA6-K

## Mere is a modern, 6-fransistor portable-easy to build of

 Memarkably lirlie cost. Provides high sensitivily, selecfivity, undistorted sound oulput. Feotures include: built in Ferrite loop ontenno, precoligned 2 F and IF ironsformers, $4 \times 6^{\prime \prime}$ ovol PM specker, vernier luning, eorphone iock. No test instruments needed. In simulated ton leather cose with reiracloble handle. Size $8 \% / \pi 41 / 2 M \approx 21 / 2^{\prime \prime} D$. Shpg. wt.. 3 lbs. Requines bollery (nol included). 90.95 G-4 10 KitG-411 Feclory wired
5.00 Down ............... Net 29.95
5.00 Down BA. 180 8olfery (NEDA $16021 \mathrm{wi.}$.5 oz. ............Ne1 1.36

## ERIE "PAC" AUDIO AMPLIFIER KIT <br> - PRINTED CIRCUIT BOARD - PLUG-IN COMPONENTS

> A unique 4-lube. push-pull quolity audio amplifier fea. luring an embossed wiring baord. the Erie "Poc," and setreme cose of ossembly. The controls, capoctiors and ube sockelt plug into place like tubes. Frequency re. sponse 30.12 .000 cpi . Outpul watts. Campoct, meosures only $6 \% \mathrm{~W}, 4.5 / 16^{\prime \prime} \mathrm{D}, 3 \% \mathrm{M}$. Complote with ofl ports, including tubes, output transiormer, and instructions. Shpg, wt., 3 lbs. Outpul Impedance 4 ohms. KT. 121


412 TRANSMODULAR ANALOG COMPUTER. Portoble, botiery operoted, the transistorized computer is ideal for schools, desk and hame colculation by the engineer, ond for assignment or reseorch use by the student.
The cembined unit will perfarm integration, differentiotion, multiplying by a constan and all duties of a professionof onolog computer. Ideal for classroam use, the bosic modules can be added onfo for greafer copocity or increased variobles. The individuo modules can be used for smoll group instruction, ond they combine into lorger hookupi for classroom demonstrotions of difficult or more complez problems.
Unit consists of on amplifier module 4128 with 3 DC operationol amplifiers contoining nine transistors capoble of solving up to third order differentiol equationss a 4124 potentiometer module contoining thre coefficiont potentiometers; - 412C comparator module for selting and reoding out variobles; ond an occessory kit 4120 contoining potch cords, essistors. sapacitors and facks. The entire unit comes complete with full assembly instructions, and an apperimental monvol and problem book which is the equivalent of a bosic course in anolog computer operation. The comporotor madule zontoins o zero-conter mllliommeter, with o sensitivity of 1 milliamp. for full scole deflection
Copable of equation solution on anolag computers; in oeronoutics, servomechanjsm design, missile and aircraft, flood control, human engineering, electricat and elec tronic problems. Shpg. Wh., 8 lbs. COMPLETE, less botteries
KT-137 5.00 Down Net 49.95
Stock $3 \% " W \times 6 \%^{\prime \prime} 1 \times 2^{*} \mathrm{D}$-ooch module-2 lbs . shog. wi.
KT-138 512 A Potentiometer moduto thit form
KT-139 412B Amplifier module hir form


## BATTERIES REQUIRED

for KT. 1392 e0. Burgess $\mathrm{D}_{6}$ or equiv. W1., 15 oz.ec.
8A-182
For KT-140 2 eo. Burpess 2 or equiv. WI., 1 oz.eo
BA. 155


## QUICK TALK KIT

A two-stotion intercom kit. Moster has volume contral with on-of switch, seporote tolk-listen switch; controls both sidns of o cenversotion ond con listen in on the Remote for boby-sittisg. dictotion or sofery listening. No switch on Remote-used need not be neor stolion. Extm Remote stotion con be added. For 117 V . DC, or $50-60$ cycle AC, Less connesting coble. Shpg. W1, 6 lbs. Size eorh unifi $81 / s^{\prime \prime}$ $x 41 / 2^{\prime \prime} \equiv 33 / 4^{\prime \prime}$. Eosy-to-follów instructions. KT. 142 KOL Extro Remote kit for obove. Shag. wh., $21 / 2 \mathrm{lb}$ KT .143
WR. 12 soble. Shpg. wr., 1 lb 100 ff .
Net 11.40
Nel 3.95


A two-stotion intercom kif, for distonces up to $500^{\circ}$. Moster teotures in-lude on-off/volume control, lalk-listen switch ond on of pilot light. Remote hos "tolk-listen switch, ollowing it to originote colls to Moster. Remote can be left closed for privocy but still oble to receive solls from Master, or open for boby-sitting ond distotion. Extro Remote con be odded. For 117 y., $D C$ or 50.60 cycle AC. Less connecting coble Shpe wi. of lbs. Size eoch unit: $81 / 4^{\prime \prime \prime} \times 41 / 2^{\prime \prime}=33 / 4^{n}$. Step-by-step instructions.
KT. 144
Net 14.88 KBW Exiro remote kit for obove. Shpg. wh., $21 / 2 \mathrm{lbs}$. KT. 145 WR-14 WR. 15250 roll of coble. Shpg, wt. 5 lbs. Net 3.50

DO IT YOURSELF - EASY - TO - BUILD KITS USE INTERCOM SYSTEM KITS FOR HOME, OFFICE, INDUSTRY


No interconnecting cobles required. Both stotions plug into electricol woll ouflets ond operote over existing power tines. Any number of stotions con be used, with messoges heord over entire system. No interterence with rodio or television sets. Eoch stotion hos Of-On/Volume Control, Noise Silencing Control for auiot operotion. GroundedUnarounded Selector Switch, Off-On Indicotor Pilot Light, Tolk-Listen Switch (for dictoting or boby-sitting). Third wire (to ottoch to serew on woll outlet plote) ond S snop:on connectors ore provided, ollowing eosy third-wire connection for best performonce. For 105-125 v. 50-60 cycle $A C$. Size each unit, $814^{\prime \prime} \times 41 / 2^{\prime \prime} \neq 33 / 6^{\prime \prime}$. Shpg. Wh., $71 / 2$ lbs. Easy-to-follow instructions. KT-146 ......... 500 Dow. KWW Entro stotion kit for obove. Shpg. Wf., 4 $1 / 2 \mathrm{lb}$ KT-147

THRIFY TALK KIT


This duol purpose six stotion moster kit con operote in either moster-to-remole or moster-to-moster systems. Up to 5 Remotes or 5 odditionol Mosters con be used. Moster con tolk to each Remote privotely, Remotes talk only to Moster. In all Moster systems any station can raik io ony other. CONTROIS. On-Off Volume, 5.Position Siation Se lector switch Tolk listen switch. Mos On Of Indicotor pito lector switch, Tolk-Lisien switch. Hos On-Of Indicotor pilo Size: $81 / 4^{\prime \prime} m 41 / 2^{\prime \prime} m 33 / 4^{m}$. Slep-by-step instructions. KT-148

Net 15.20

## REMOTE KIT

For use with THRIFY TAIK up to 500' oport in Moster to Remote systems. Hos Tolk-listen switch, provides privocy while still receiving colls for Moster. Useful for bobysifting. User con onswer colls while owoy from Remote whout operoting switch. Sizes $81 / 4^{\prime \prime} \times 41 / 2^{\prime \prime} \times 33 / 4^{\prime \prime}$. Shpg wl., $21 / 2$ Ibs. Eosy-to-follow instructions. KT-149 KTW Remote kit 7. conductor coble, for 6 stotion oll-Moster system. Shpg. wt., 4 lbs. 100 ft .
WR-117 . 100 ft .
Net 5.96
3 conductor cable, for Moster-to-Remote system.
Wh-14 100 fl .................................
WR-15
Nef 3.50

## BABY TENDER KIT COMPLETELY PORTABLE, NO INSTALLATION



One-station kit for use with ony existing rodio. Just plug into woll ouplep, furn on power. Set picks up sounds ond fronsmits to ony rodio within $300^{\circ}$. Fiequency used 1300 KC . 1750kC lodiustoblel. You can be of home, ouldoors, in cor or visiting, ond still be sure that your boby is sofe. BABY-TENDER osts of a 24 hour sentinel. Hos power on-off switch ond pilot light. $50-60$ crela $A C$. Size: $81 / 4^{\prime \prime} 41 / 2^{\prime \prime}$ : $33 / 4$ ". Shpg. wi., 4 lbs. Easy-fo-follow Instructions. KT-151

Nel 9.50

## GERMANIUM DIODE RADIO KIT

3.26


Real basic kit using the new germonlum diode to bulld - highly sensifive rodio set. Requires no batteries or power supply. Kil includes prewound coll, single gang condenser, germanium diade, boord, template, headphone, knob hardware and instruction book. Less wire. Shpa. wh., 2 lbs. MT 43

# Necu/ MOTORIZED KITTS -AUTHENTIC MODELS SNAP-TOGETHER - EASILY ASSEMBLED 



## EDUCATIONAL!

- battery operated-they really go - ideal FATHER-SON PROJECT ASSEMBLED IN S MINUTES - NO MESSY GLUEING SCALE MODELS MAKE IDEAL GIFTS


## LOADS OF FUN!

MODEL 302 HOT ROD KIT

## - COMPLETELY WIRED ELECTRICAL SYSTEM

- INCLUDES ELECTRIC MOTOR AND HEAD LIGMTS

Here's o klt thot resembles o reol hot-rod in every respect-oll the component parts are included. If they were bigeen, you could drive them. Flexible front and rear wheels, steering wheel, steering mechonism, frame, rodiotor, headlights, engine, oir $4 y / 2,2 y_{2}$. Shog. body shell with seat and outhentle decols all included. Sires $91 / 2 x$ $4 \frac{1}{4} \times 2 Y_{2}$. Shpg. wi., $21 / 4$ lbs. KT-152 Kit
BA- 157 I $1 / 2$ Volf bolfery l
2 ac. required @ 13 c
Net 2.69
Not 26c

## MODEL 102 INDIANAPOLIS-TYPE RACER KIT - RACE 2 or more

Here's on easily ossembled model rocing cor. Just snop the plostic parts together, In. ert battery, thraw the switch and you're reody for hours of fun pocked enioyment. A simple lrack can be bullt, and iwo ar more cars con be roced ogainst eoch other, Body is constructed of high impoct styrene to prevent domoge. Also Included in the kit ore the $11 / 2 \vee$ DC lectric motor, special rocing wheels, ond outhentic in ocing decals, Skpg. wf., 1 lb .
Kテ-153 Kit
BA-157 $11 / 2$ Volt boltery (Burgess 2R or equiv.)
Net 1.39

## NEW! "ROCKET" CRYSTAL RADIO

 - no batteries - no power neededi - includes crystal EARPHONE \& ANTENNAI - A COMPLETE RADIO RECEIVERI A complefe rodio, copoble of receiving entive broodcost band. Tunes by collopsible nose "onfenno". Complete with germonlum diade, crystol eorphone, clip-on antenno. Uses no bap feriesF-4

Net 1.89

## PHILMORE ALL-TRANSISTOR RADIO KIT MODEL TR22A COVERS BROADCAST BAND AND POLICE CALLS



- 2 TBANSISTORS \& 1 DIODE BUILT-IN 4 INCH SPEAKER ASSEMBLED-NO ELECTRONIC KNOWLEDGE REQUIRED Ideal kit for the beginner. The tronsistorized receiver is cosily buili by onyone, and comes with eary-lo-follow, step-br-steo instructions. Buill-in loop ontenno brings in weak signals, and eliminofes the need for ony external ground or onfenno. Rodio leolures odvonced design, and is housed in slurdy plostic cose. KT-158
MODEL TCC Corrying cose for above
KT. 159
Net 12.27
$\mathrm{KT}-159$
$\mathrm{BA}=118$
Ne 2.04



## Dicuxi COIL WIMDIE WITH accessonies <br> 4.95



Eosy-fo-use sel winds honeycomb, spiderweb and solenoid cails of various widths and diameters-avol in oppear. once to e foctory iob. Also suitoble for winding chokes, transformers and filter inductors. Indicator counts num. ber of turns on coll. Supplied with occessories Including wood spools, motal pegholders ond occessories Including long solenoid colls. Instructions inciuded, but less coll fong solonoid colls. Insif
forms and pegs. Wi. 6 lbs.
$\qquad$
MINIATURE EQUIPMENT CASE


A minioture plastic cose mounted on o stondord octol bose. For equipment de. signers - experimenters - builders hobbyists. Perfeci for modular construction. Mount relays - resistors - conden. sors - networks - ony minlapurlized circuitry - for plug-in use. Add whole stoges in one unit to extsting a aulpment. thousonds of uses size $1.13 / 16$ in $13 / 32$ sq. Proiect $2^{\prime \prime}$ obove chossis. Shpg. W/. 42 sq. Proiact 2 above chossis. Shpo.
MS- 356 .


DIAL TYPE TELEPHONE INTERCOM -DIAL-TO-RING - OPERATES UP TO 600 FEET
Full size-stondard telepnore shope-oaltery opepatedtwo stotion sef. The loudest-clearest bottery operated relephone availoble. Operotes on eosily reploced flosh. light cells. No buttons to push for signoling or tolking Perfect for communicotions room to room-office to office -havse and gorage-hundieds of installallans. Extremely rugged construction. Includes instructions and 50 ft , of wire. Less botiories.
ML-104.
DELTA "WORLD'S SMALLEST" ALL TRANSISTOR RADIO

- fully powered with 3 transistors - com. plete broadcast band coverage no ground or external antenna netded


More's a pocket rodio that's reolly sub minioture. So smoll that it con be held in the palm of your hond. It is precision ongineered, and employs madern cir cuitry and high quolity components. Radio comes completely foctory wired and tested in high impoci plostic case. Also included is o Prue-fidelity earphone for private listening, and alfractive gift bor
 2KT-160 BA....................... 7 Bis


CRYSTAL RADIO KIT
Eseillent for beginners. Provides bosic radío theory. Nol o toy. Kit includes a tullywound cosy-towse stide-coil, crystol detector, ond cots whiskers. No solder ing nesessary-the only pool noeded is s screwdriver. Shpo. wl.. I lb.
PHILMORE 7000K.................... 1.29
MEingle heodonone for obove. 1.18


Ideal for moll crystol, diode and lransistor broadcast and and Iransistor broadcost and hariwave sets, 50 ft . 726 bore copper aerial wire. 25 ft ubber covered lood-in wire, 10 in. window lead-in strip, 2 an tenno and 2 stand-off insulo. tors. Simple printed instruc. fions. Shpg, wi., 2 lbs.
KT-77
KT-7T

## NEW! LAFAYETTE STEREO PHONO AMPLIFIER KIT

## - GANGED TONE CONTROLS

- STEREO-MONAURAL SWITCH
- . 04 VOLT SENSITIVITY
- 4 WATTS STEREO OUTPUT
- ISOLATION TRANSFORMER
- SEPARATE VOLUME CONTROLS

This is complete 4-wotl hi-fi stareo amplifier hoving 2 wotts output per chonnel. Feotures separate volume centrol for each chonnel; gonged tone controls; Stereo-monourol switch to feed one chonnel to both speokers and to reverse the channels. Just right for any use where a smoll stereo omplifier is required-ldeal for custom mounting in even the fightest locations: specially designed for smoll oportment sized stereo systems.
An isolotion tronsformer mokes this circuit extra safe. Other circult feofures for kefter perfarmonce include applicotion of negotive feedback to driver and output stages for wide-range response ond extra low dis. tortion. Duol-triode 12 Ax 7 lubes function os voltoge omplifier and driver, providing very high gain: 40 millivolts drives this unlt to full outpup. This tremendous goin, olus on eatremely high input impedonce, make this amplifier perform exceplionally, well with all types of ceramic and crystol pickups, os well as funers, tepe recorders, efc. Selenium rectifier power supply has emtremely good regulation. Logical layout, high quolity ports, plus complete instructions for assembly, moke this kit o pleosure to build ond use. For
 with oll ports. For $110-120$ volts, 60 cycle AC. Shpg. wi., 7 fbs . Ki-126-Kit, Complete Ner is.9s


## COMPLETE STEREO PHONO SYSTEM KIT

- Assembie the stereo amplifier AND SAVE REAL MONEY
- plays stereo and monaural recoros


Enjoy fine stereo performance with this "eary-to-assemble" exclusive Lafayelte pockoge. The complet systom consists. of Lafoyette KT-126 bosic stereo phono ompllfier kit, the renowned Callaro TSC-O40 A-speed outomotic record chonger, the new Ranette "OV" Pumover Stereo cartridge with dual sopphire styli for stereo ond monourol records, ond iwo Lolayelto SK-109 Miniature Hi-fis Speokers ond Enclosures. The omplifier kit hos mony fine feotures including 2 wolts par channel with speakote valume contral. "stareo.reversol-monoural operotion" switch, ond isolation lionsformer to
 work from either 4 or 8 ohm outputs ond ore supplied with 25 ft . of coble for hookup. You save 16.58 over regular catolog pricesl Shpg. wt., 33 lb . PK.290WX Sterea Phono Kit Syitem tess changer base ..................6.00 Down.......................Net 59.9 s

Wood base for Collore ISC-640, Mahogany finish. Shpg. wt., 5 Ibs. PK-574W

5-WATT PUSH-PULL AC-DC HI-FI AMPLIFIER KIT


- SEPARATE volume,

BASS AND THEBLE
CONTROLS
PUSH-PULL AUDIO
OUTPUT STAGE

- inverse teloiack
- ac or dc omeration
10.95

Here in kit form is on AC.OC hi-A amplifer that presents unusual featuren desple in omosingly low price. The separate boss and treble controls permit odiurtmont of both low and high frequency response ond balance. Works equolly well with both erystal or ceromic cortridges. Wo: o 4-tube line up-0 $12 A x 7$ ampliher and phase inverter, © 35 W 4 rectifler and a pair of 35 CS i in push.pull, hoving a power-ported low listortion output. The circuil utilizes on inverse feedbock loop to reduce the level of hum and distartion. Kit is camplete containing all estential ports, lubes and defeiled instruction manwal shawing pictarial and schemasic diagrams. Shpg. wi., 416
KT-2 2
Ne1 10.95


## EICO HFT-92K HI-FI FM/AM TUNER KIT

- PRE-WIRED \& PRE-ALIGNED "FRONT END - EXTGEMELY STABLE DRIFT-FREE CIRCUIT

Eica has incarporated their fomous HFT.90 FM funer circuil logether with as cellent AM focilitios. Pre-wired ond pre-aligued, the FM section employs lulfwave rectification and heory fillering for stobility. Braod-bend retio detector with stable law threshold limiting pravides o senslitivity of $1,5 \mathrm{\mu y}$ for 20 db owering. Frequency Response $20-20,00 \mathrm{C} \mathrm{cps} \mp 1 \mathrm{db}$ for FM, $20-5000 \mathrm{cps} \mp 3 \mathrm{db}$ for AM. Antenno input 300 ohms FM. Ferrite Rod for AM. Size $3 \%{ }^{\prime \prime}$, 12 . $81 / 4^{2}$. Shpg. Wi.. 12 lbs.

## G-507WX

Model HFT-
G.508WX
6.00 Down
od and tested.

Net 59.95


## COMPLETE HI-FI PHONO SYSTEM KIT

The complete system conslists of lofeyelfe KT. 92 S watl amplifier Kit, the fomeus Colloro TSC. 840 4-speed outomatic record changer with Ranefte cortridge and a lafayette SK. 109 minlofure hi-fi speaker and enclosure. Assemble the amplifier yourself and sove money. Shpg. wt., 29 lbs.
PK-332Wh (lesi chonger base)
5.00 Down

Net 42.45
Wood base cut for Colloro ISC-640. Mohogany finish. Shpe. wi., 5 Ibs. PK.374W
PK-375W Above bose, blond finish. Shpg. wf., 51 lbs.

## ALTERNATE HI-FI PHONO SYSTEM KIT

For those who prefer monual record ployers, here is a modestly priced system with hi-h serformance. Components Include beth lafoyette KT-92 S-woth omplifier kit and Lafoyette SK-109 miniature hi-f speaker system in enclosure (feaiured obove), Lofoyetie ML-24 4-speed phona mator and turntable, ond Lafoyelfe PK-157 4-speed pichup orm with duol sopphire furnaver crystal cortridge. Shpg, wl., $141 / 2 \mathrm{lbs}$. PK-331wX.................... S.00 Down
Unfinished mounting boord for ML. 24 motor. Shpe. wl., i it PK.140W


# - BUILD YOUR OWN HI-FI KITS. 

## 10 WATT PUSH PULL HI-FI AMPLIFIER KIT



- built-in preamplifier for ge RELUCTANCE CARTRIDGE
- SELECTOR SWITCHES PERMIT CHOICE OF THREE INPUTS
- SEPARATE BASS AND TREbLE CONTROLS
- 4, 8 AND 16 OHM OUTPUTS
- EASY-TO-FOLLOW INSTRUCTIONS This new. econamy hi. inpliter has many deluxe feoturer for exceptiono performance. The three inputs ore radio/erystel phone pickup, mogneti ohono pickup and microphone. A selector switches the input from radio erystol to microphone or mognetic pickup, depending upon the position of - rear opron slide switch

OUTPUT - Roted 10 wolts, peak 18, FREQUENCY RESPONSE - $\pm 1 \mathrm{db}$ $30.15,000$ cOs. DISTORTION - $1.5 \%$ harmanic. $4 \%$ intermadulation of 8 wotts. 4 CONTROLS - InDut Selector; Volume; Treble; Power.On.OA Bess. TREBLE CONTROL-Flat response up 1018 db cut.-8ASS CONTROL -Fiot response ud to is db boost. OUTPUT IMPEDANCES-4, 8 and 16 ohms. TUBES - $6 S$ O . ASITGT, 2 - OVGGT and SYJGT rectifier. AUXIL. IARY AC OUTLET - Dislinctive Mommertone finish, SIZE - $101 / 2 \times \times 1 / 4=$ $\times 51 / \mathrm{a}^{\prime \prime}$. WEIGHT - $81 / 2 \mathrm{lbs}$. For 110.120 Valts.
Camplete tht with coded wire, highest grade solder and detoiled instrue tion monuol
KT.91 5.00 Down Net 24.50

## MONAURAL HI-FI PHONO SYSTEM KIT 82.95

HAVE FUN - SAVE MONEY, by ossembling this toD-value system yourself Feofures lafovelte KT.91 10 wolt amplifier hit. famous Gorrard RC. 121 intermix recerd chonger, GE triple-play cortridge with diomond-sopphire duol stylus ond the new Lofoyette SK. 124 Uliro.Complionce 2 woy speoker system in mohogany or wolnut cabinet (specify finish). Tuner con be odded of any lime for radio reception. Less chonger bose. Shpg. wt., 38 lbs. HF-703WX
8.30 Dawn Mohogony bose for chonger. Shag. wh., 5 lbs PK-350W

Net 82.95

PK-360W Blond bose
Net 3.95
PK
Net 3.95
PK-36IW Wolnut bose

## PACO MODEL SA-40

## STEREO PREAMP-AMPLIFIER KIT



Designed for optimum performonce ond moximum fenibility in ony thereo system, SA. 40 cambines o dual 20 wott amplifier and versatile preomplifier in one casy-lo-build kit. Chassls-mounted Mono. Operation $\$$ witch converts SA. 40 into o 40 woll pream-omplifier, with o 2 nd preamp availoble to can rol on externol power omplifier. PERFORMANCE SPECIFICATIONS RESPONSE: $30.90 .000 \mathrm{cDs}, \pm 1 \mathrm{db}$. DISTORTION: less $0.2 \%$ harmanic and $1 \%$ intermodulation per chonnel. CONTROLS AND SWITCHES: Equali. tation (phono and Tapel. Made Selector (Bal Left Bol tight Mano Srereo, Stereo Reverse, Chon. Right. Chon Leftl Rumble filter Contour, Speaker Selector, Input Selector (Auy Aux 2. Phono Phono 2 Tope Heod, Microphone, Tuner/Automotic Multipleal, Bolonce Joudness/Volume Boss Treble, Mono Operation INPUTS, 4 toiol OUTPUTS. Dual tope Secoiote Preomp. Duol Speoker. MUM AND NOISE LEVEt: Up to 80 db Seca ole Preom. DUol Speoker. HUM AND NEISE LEVEL: Up o 80 db Tuner and Aus 0.75 SPEAKER TAPS: 4; 8, 16,32 ahms. SENSITIVITY Tuner ond Aun. 0.75 V. Mag. Phana. $15 \mathrm{mv}$. , Mag. Phono- 25 mv ., or 0.3 $\checkmark$ Ceromic TAPE OUTPUT LEVEL: 2 .. unofected by Loudness or Tone celtings. 9 tubes plus 2 silicon and 1 selenium rectifier. For 117 . 50.60 reles AC. Gold and sotin black hooded case, with ponel illumination and sotin gold ponel. $15 \%=\pi 113 / 4 \mathrm{~d}=5 \% \mathrm{~m}$ h. Shpg. $w t$. . 23 lbs . Complete with case and step-by-step assembly-aperation manuol.
G. 590 WX

Net 79.95
G-591WX SA-40, Foctory wired
13.00 Down

Nol 129.95

ON LAFAYETTE'S EASY PAYMENT PLAN - SEE PAGE 302

## Acrosound Amplifier \& Preamp Kits

SIOOI STEREO PREAMP KIT
Printed circult boord and modulor design make construs fion simple and enloyoble. Unlave feotures include Mithe Dub Swith, bolonce control. and panel light Matrix. SPECIFICATIONS - INPUTS: 2-MAG. Cort, 2-Tope Head. 2-Tuner (FM.AM, FM. FM Multiplex), Tape InDul, Misro phone. OUTPUTS: 2-Main, 2-Tope, 3rd Chonnel. CONTROLS AND SWITCHES, Tape Monitor, Mike Dub, Inpul Selector (78,LP, RIAA-1, RIAA-2, Tope Heod, FM.AM, FM.FM Mulli olex, Aux.), 2-Boss, 2-Treble, Bolonce, Gonged Volume Loudness, Output Selector (Check A. Check 8, Stereo Stereo Rev., Mon. AB Man. A Man. B) i-Serateh 1.Rumble, phosing, loudness in.Out. A.C. outlets

 Supplied with ribbed oluminum cover in block solin finish, with sand-colored front panel. Shpg. Wt., 10 lbs G-578wx $\quad 7.95$ Down ............. Nel 79.50

STEREO 20.20 OUAL BASIC AMPLIFIER KIT
A fwochonnel basic omplifier Kit with common power supply. 18 wotts per chonnel of $2 \%$ Horm. $1.5 \%$ Im dis. tartian; 36 watts manaural. Individual level cantrols, stereo-manaurat iwitch. Dual speaker outputsi 4, 8, 16 32 ohms. Response, $10 \cdot 70,000 \mathrm{cpr} \pm 1 \mathrm{db}$. A. C. 7 $10 \times 51 / /^{\prime \prime} \mathrm{h}$. Shpg. wh., 1 il lbs
G-570WX ........ 6.95 Down
Slerea 20.20, Foctary wired
6.571wx 9.95 Down. Nel 99.50 Stereo 20. Single channel amplifier Kit; specs equal to one shannal of $20 \cdot 20,7 \times 7 \equiv 5 \frac{1}{2}{ }^{\prime \prime}$. Shpg. Wf., 13 lbs G.574 5.00 Down Net 44.50 G.575 Stereo 20. factory wired 0.45 Down Net 84.50 Stereo 20A. Stereo 20 Kit, requires power supply, from Stereo 20 or other source. Shpe. wf., 6 lbs. $7^{\prime \prime}$. $51 / 2^{\prime \prime}$ $51 / 2$
. 572
G-573. Stereo 5.00 Down Net 29.50 UITRA.IINEAR 11. (nat illustroted). 60 wolt power am plifier Kit Sle $7^{\prime \prime} \times 15^{\prime \prime} \times 8^{\prime \prime} \mathrm{h}$. Shpg. Wt.. 30 I6s.
G.576wx $\quad 7.95$ Down... Nel 79.50 G. 577WX As obove.foctary wired 10.95 Dawn Nel 109.50


# SAVE MONEY-BUILD YOUR OWN HI-FI KITS 

FEIGO Model HF-81K STEREOPHONIC DUAL AMPLIFIER-PREAMP


Only 69.95
phonic control center with 2 matched Williomson type push-pull El84 power omplifiers, oll on one chossis. Eoch channel hos 8 inputs: low tevel-mog phono, tope heod, and microphone. Front panel switsh for thoite of proper NARTS tape equolizotion for either $71 / 2$ or 15 or $3 \%$ ips; high level -2 ouniliories, AM, FM and FM multiplex. Front panel contral to obtain stercophonically FM and AM or FM and FM Multiplex; Ganged level controls and o separate focus lbalancel conTrol; Independent, low distortion voriand teble tontrol, for eath choncel taptable to any ponel thiskess for console installotion Outpul Powior - coted 28 wotts liontinuousl for monaural 14 watts for stereo. Frea. Response $+5 \mathrm{db}, 10 \mathrm{to} 100 \mathrm{ke}$ of 2 w out. IM Distartion 160 and 6000 eps of $4: 11-0.5 \%$ of 10 wolts out. Hormonis Dhtortion - less than i\% fram 40-10 ke of 20 w output. Sensitivity for roted oufput mog phono: 4 mvi fope head: 2 mvi mic: 6 mv ; tuner ond ouniliories: 0.5 v . Hum and Noise level Ibelow 14W): -50 db on low lovel inpul, 75 db on high level inputs. Hoss - 15 db of 50
 G-490WX Kis
HF81 As ob
G-491wx
11.00 Down

Net 109.95

## NEW! EICO STEREOPHONIC DUAL PREAMP KIT

 MODEL HF85K Self-powered preomp-control conter olfering complele switshing and control facilities for ony stereo progrom source $\overrightarrow{\text { topes, dises or broodcosts. }}$ Eoch ehannel providess low-level in-puts-magnetic cortridge, tope heod. mike; high.level inputs - AM and FM funers, FM multiplex, ouxiliory A ond B; indesendent loval control operozing sedorotaty or in clutch; Munson louitness compensalion tith disobling switeh; function-solector switch; low-impedonce output

 quency respanse $5.20 .000 \mathrm{cps} \pm 0.3 \mathrm{a}$, 30 and Hormonit distortion $120.20,000$ cpl $1.1 \%$ @ 3 . RMS oufpuf; Tone-control range $\pm 15$ db @ 30 and 10,000 cps; RIAA phono and NARYB tope heod (15, 7.5 , and 3.75 ips) equafiration; Outpul-to.moin omplifier impedance, 8000 ohms. Tubes: $5-124 \times 7 / E C C 83 ' s, 1-6 \times 4$. Sike: $3 \%{ }^{\prime \prime} \mathrm{high}, 12{ }^{\prime \prime}$ wide, $8 \%$
deep. Shpg wt. 10 lbs. Cover supplied.
5.00 Down

HF85 Some as above, but foctory wired.
G. 493

Not 64.95
EICO MODEL HF86K 28-WATT STEREO HI-FI DUAL
 POWER AMPLIFIER KIT The HF86K is o dual power omplifier kis, with eoch channel roted conser-
volively of 14 watts. The 2 omplifiers may be aperated in porallel so deliver 28 walls for non-stereo use.
Feotures excellent stobility ond lionsient response. Clean llawless per formance of even high power levels. Employs o Williomson type circuil with o push.pull El84 output store. A new lobe, the I2DW7, developer of EICO's request, provides significonlly belter performance chorocteristics in the fomiliar volfoge omplifier and split-lood phose inverter of the Williomsiontyoe circuit. Output power: 28 walts confinuous, 36 wolls peok. Frequency responses 10 , 10 wolts $(60 \mathrm{~g} 7000 \mathrm{cps}$ of $4: 1)$. Hormonic distortion: less than $1 \%$ of roled output. Slobility margin: 15 db . Hum: 90 db below roted oupput. Sensilivity: 1.15 V tor 14 W . output. Confrahs level Ch. 1. level Ch. 2. "Service Selector" switch, On-Olf swith. Speoker connections: 4, 8. 16,32 ohms. Tubes: 2-120W7, 4-E184, 2-EZ81. For 117 V. 60 cycles. Pewer Consumplioni 115 WW . Site: $5 \times 13 \frac{1}{3} \equiv 9^{\prime \prime}$. Shpg. Wh., 16 lbs
Guies.
HF 86
G-495
Net 74.95

## NEW EICO MODEL HF87K 70-WATT STEREO HIGH FIDELITY DUAL POWER AMPLIFIER KIT



A superb dual power omplifier kis employing the tomous cothode-cou poch phose inverter-driven circult ively roted of 35 wotls with the out out stoge using uttro-lineor con nocled, self-blosed, push-pull El34's The omplifiers hove slobllity margin as great os the feedbock employed the HFG7K can be used os either
stereophonic dual 35 wott amplifier of a monophonic 70 wolf omplifier. A service selector switch permits ,holce of service. Oufput power: 70 watts confinuous, 140 wofts peok. Freavency response: of 70 walts. Domping factor: obove 11 . Stability morgin: 17 db . Sensitivity, 0.38 V for full output. Channel separation: 35 db . Controls: Leval Ch. 1, Level Ch. 2, "Service Selector"
 w1. 32 lbs.

HF87 Some
HF 87 Some os obove, but foctory wired
G. 897 VEX

## EICO MODEL AF-4K COMPLETE STEREOPHONIC DUAL

 AMPLIFIER KITThe Model AF.4K Wh consists of two highly fed:bock, single-ended omplifiers preceded by complete perotion. Provides odequote power levels to drive high efficiency peokers to full room volume. Poinsfoking design insures oxcellent esponse. odequale stobility morgin, ond o feedbock level of 27 dt resuthing in low harmonic ond infermodulation distortion. Controls include: Selector (AM, FM, FM Multiplem, AUK., high-level Phono) Mode (Amp 1. Amp 2, Norm., Reverse, Man. Phono, Mon. Aux.) Independent, concentric level ond tone controls, On.Oll switch. Fre quency response: $\pm 0.5 \mathrm{dt} 30-20,000 \mathrm{cps}$. Mormonic distortion, Iess thon $1 \%$ of 4 wolts. Sensitivity (lor 4 W . oulpul/chonnel). 26 V (phono). . 113 V (other inputs). Hums $\rightarrow 74 \mathrm{db}$ below full output. Speoker connections: 4, 8, 16, 32 chms. Tubes: 2-120W7, 2-E184, 1-EZ81. Size: $3 \%=12=8 \%=$. Shpg. wi., 13 Ibs. G-498 Kir ...... 5.00 Down
AF-4 Some os obove, but foctory wired
G-499
Not 38.95

EICO HIGH FIDELITY


AM TUNER KIT HFT94K
The new HFTPak is a basic AM
tuner kil designed for hi-fl slide-rute diof. fly-wheel tun ing. low infer-station noise The puned PF stoge and buill-in ferrite loop onfenno provide high ensitivity and selectivity. The DM. 70 traveling eve indicotor is pre wired, ond RF ond IF coils are pre-aligned so thol the instrument will be reody to ploy the momont the last instruction is done. Sensitivity $3 \mu v$. of $30 \%$ mod. for $1 \%$ outpul. Selectivity: Frequency respanse?
20.9000 cps (wide). 20.5000 cps (norrow). Oulput: low impedance $20-9000 \mathrm{cps}$ (wide). $20-5000 \mathrm{cps}$ (norrow). Oulput: law impedance plote follower, Extro recording oulput. Controls: Bondwidth Selector,
level/fower, Tuning. For $110.125 \mathrm{~V}, 60 \mathrm{cps}$. Size: $3 \% \times 12 \times 8 \%$ " level/Power, Tuning
Shpes. wh., it lbs.
G- 500 Kil.......... 5.00 Down
HFT94 Some os obove. but foctory wired
G-501
6.60 Down
Net 39.95
G-501
Ne1 65.95


## AMPLIFIER KIT <br> MODEL HF20K

high quality equalizer ond woll Uliro-lineor William son-tyo power omplifier 5 equalizolions provided fiA 4 and 78: including RIAA. Vorioble furnover tone controls. leed-bock sial suts-Tuner TV Tope. Auxiliory, 2 low level inputs (not switched) provides proper pick-up loading and attenuation for all leoding mas elic. FM and high quality cortridges. Hum balonce control for bal oncing out 60 crele residuol hum. Power Consumption: 110.120 volts. 60 cos, 100 wolls. Tubes: 2-12AX7, 2-12AU7A, 2.6L6GB, 1-5U4GB Hondsamely styled to eliminate the necessity for cobinelry. Size: 8 k $\mathrm{H}, 15^{\circ} \mathrm{W}, 10^{\prime \prime} \mathrm{D}$. Shpg. w1., 24 lbs .
G.502wX Kit .. 5.00 Down

Hi 20 As ob
G.303wx 8.00 Down E-1 Enclas
G-4 28 W

Net 79.95

## EICO MODEL HF3OK 30-WATT



BASIC POWER AMPLIFIER

## unusually high quolitr

 boske power omplifier ond on outstanding volue. Uses 4 of the remarkable E184 ouput tubes in a push-pult parallel orrangement. O arall design is such the all speaker tops, with loods ronging from zero to infinity. Specifico tions, Output-30 watts continuous, 47 watts peal. Intermodulation Distartion-0.35\% at 10 wotts. Hormanic Distartion-Below $1 \%$ at 30 wolts. Frequency Response - is. $50.000 \mathrm{cps} \pm 0.5 \mathrm{db}$ of 30 walls. Domping Foctar-Above $10,20.20,000 \mathrm{cps}$. Sentlivily 1.24 valts for 30 watts out. Hum -80 db below roled output. Speoker Connections4. 8 and 16 ohms. Tubes-6AU6, ECCPO/6C4, 4.EL84; 2-E281 (Reclifiers). Power Consumption- 125 walls, 117 volls, 60 cps AC. Size$5^{\prime \prime} \mathrm{h} \times 12^{\prime \prime} w \times 7^{\prime \prime}$ d. Shpg. wi.. 17 Ibs. Hf 30 Some os obove, buifocinry wired G.505 ..... 6.30 DownE.4 Cover for HF30. Shpg. wi, 3 lbs.

Net 39.95
Net 62.95
G. 506

Net 3.95

# BUILD YOUR OWN EIFD HI-FI KITS 

## EICO 30-WATT HI-FI INTEGRATED AMPLIFIER KIT with PREAMPLIFIER EQUALIZER AND CONTROL SECTION MODEL HF32K



- EXTREMELY VERSATILE EQUALIZATION AND CONTROL
- NEWLY DESIGNED
"LOW-SILHOUETTE" CONSTRUCTION

57. 95 complete kir

Only \$5.80 Down - \$6.00 Monthly
Combinet the high itobility morg n, wide treavency range, negligible distortion ond excoption al
 in oddition to the usvol focilities. Hor 3 low loval inputs for mognetic phono lope heod and microphone and 3 high leval induis for iV or tuner, crystol or ceromic cortridge or topes 4 ghno carolizotions ond NARTE tope head equalizotion with equolizotion circult of extromety low dis corrollot foedbock type. Single sw teh selects ony Input ond/or equolizotion. 4 Eld4 push-oull
 Marmonic Distarion: Below $1 \% 20$ cos- 20 KC , dhtelow 30 ot 30 wots. $0.5 \%$ of 10 watt
 from 1 miw to 30 w . Square Wave ilesponse: 20 cos to 20 KC essentially undistortod Speoke Connections: 4 i. ${ }^{8}$ Ond 16 ohms. Sensitivity linput for roted output): Mog phore- 5 mve Tope
 2.E281. Power Requirements: 117 VV , 00 CDI ; 140 watts consumption. Sizei $15^{\prime \prime}$ ※ $42 / 2^{\prime \prime}$ \& $101 / 2^{\prime \prime}$

5.80 Down

GA21wx
9.00 Down

Not 57.95
Not 89.95

## NEWI EILCD MODEL HFT9O FM TUNER KIT

- Pre-ASSEMBLED, PRI. ALIGNED, SHIEIDED FRONT ENO
- traveling tuning indicator
- EXCELLENT SENSITIVITY
- SIMPIFIED

CONSTRUCTION AIDS
Kit includer on entiraly completed ond oligned "front and" housed in a solld but is andeld which not only providen excellent sensitivity and low noise, campensoled components. This "frant and "adranced circuilir and temperatureFM luner comporoble to a factory wired uit moke by nilice bultrerion of an ing luning Indicator, travels alang the silde. oven or a novice bulloer. A travel-
 ing, outomolie ein contor lolised ecior, and very lain cantiol, slobilized law ilmiting threshald, broad band ratio doods incluti SENSITIVITY.
 multiple TUE COMPLEMOMT. bolanced. OUTPUTS: Calhode fallower and SX\& 1.DM70 MUMMPLMENT: 1-ECCSS/8AO8, 3-6AU6, 1-8AL5, 1-6CA, 1 . oxt, Cansumption SizE. 12 bow 1 valt. FOWIR: $110.125 \mathrm{VAC}, 60 \mathrm{cps} ; 40$
 insiructions. Shpg. wt., 10 lbs.
G-422 Klt .................................. 5.00 Down
MFTPO Some or obove, but foctory wired.
G-423
E. 123 Cover for HfTro. Shpg. Wit 3 lbs.
G. 311 W
G.43iw

## जाजण <br> 12-WATT WILLIAMSON-TYPE

HI-FI AMPLIFIER . . . PREAMP CONTROL SECTION


## COMPLETE KIT ..... HFI2K WIRED <br> HF12 <br> 34.95 57.95

Compoct, oftractivaly sifled anplifler wirh cemplote front end locllities and true high fidelity performance.
Direct tape heod and mognetic phono inputs with NARTB (tope) and RIAA (phono) foedback equalizotions. Dwol priode circuil for vorioble turnover boss and treble feed. bock-type contrals. Power outpent: 12 wetts conlinuous, 25 woits peoft. Intermodulation distortion $1.5 \%$ of 12 wolls, $0.55 \%$ of 6 worts, 60 is 6000 cps. Frequency responser 12-50,000 cDs $\pm 0.5 \mathrm{Jb}$ ot 1 woll; 25-20,000 cDs $\pm 0.5 \mathrm{db}$ of 12 wotrs. 4 Controls; Selector swith. level control, bass and treble controls. Speoker connec. level control, bass and tobie Thbesi (2) ECC83/12AX7. ECCB2/12AU7. (2) EL84, E281. Sirei $3 \% \%^{\prime \prime} \mathrm{H}, 12^{\prime \prime} \mathrm{W}$ $81 / 4^{"} \mathrm{D}$. Shog. wt. 13 lbs . With instructions. G. 424 Shpo. wh. 5.00 Down 34.95 MFI 12 As obove, but foctory wined G-425 5.80 Down

Net 57.95

## 50-WATT ULTRA-LINEAR AMPLIFIER PREAMPLIFIER CONTROL SECTION MODEL HF52K 69.95 KIf <br> 

Here is o now high powered, high fidelity amplliter with virfuolly obsoluto stobllity ond flowless tronsiont response under lood. Extremoly high quolity oufput trons. lormer, fully poffed in seomless sfeel cose. Preampli. fler-equalized control section hos five equalizotions for LP is and 78 s including RIAA, vorloble lumover feedbock tone controls, loudness and level sel controls. Six inpuls include four high level switched inputs for luner, TV. topen. eryital/ceromic phono, ond lwo low level in. puls for magnetic and high auelity cryital certridges. Hos hum balonce control. Power oufput 50 watts canlinuous, 100 watis peok. Harmonic and infermadulosion distortion less thon $1 \%$. Frequency response 15 . $30,000 \mathrm{cDs} \pm 0.1 \mathrm{db}$. Hum and noise 80 db below rofed output. Speaker connections for 4, 8, 16 ohms Size $7^{\prime \prime}$ W. $14^{\prime \prime}$ W, $8^{\prime \prime} \mathrm{D}$. Shpg. wt. $29^{\circ}$ lbs. With instructions.
G.426wx kil ......7.00 Down HF52 As obove, but foctory wired. E.1 Motehing Cover. Shoo. wf., 3 lbs E. 1 Motch
G-4 28 W

Net 109.95
Nel 109.95
HF SOK Power omplifier hil only. Shpg. wi, 25 Nel 4.50
 HF50 foctory wired ompllfier only. Shpe. Wi., 25 ibs. 57.95 G.-30WX ‥80 Down E. 2 Matching Cover. Shpg. wi.. 3 Ibi

COMPLETE

## KIT ONLY

Provides

### 37.95

## the finast power ampllfiers. Hos' foidhochictilties for

 culoff scroich and rumble fllters (12dbelo-tyoe. distortion feedbock sone controls include/octove). mon rocording curves for Lp., controte provide lorge boost or cut in 's plus RIAA. Tone mid. Trequencies ond volume unoffected boss or troble wim oudnoss control, four hioh unoffected. Equipoed with tuner, tope, oux.) ond threo low swithed inputs ITV. corrtidges. Mos hum bolonce contral levol inputs for oil ience outiots. Nogligible hum control ond four convon. Intormodulotion Aisitoortion, hum, noise, hormonic ond $100,000 \mathrm{csi} \pm 1 \mathrm{db}$. Sizes $4 \%$ incy responso a G-432 kit w. $\quad 5.00$ With instructions. HF6/A Some os above, but foctory, Not 24.95 G-433 HFG1K Some or HFOIA ${ }^{3.00}$ Down Shei 37.95 G $4.4344^{2}{ }^{8}$ HFOI Some or HFGix s.00 Down G.43s as Hfolk, but fociory wired.
5.00 Down 5.00 Down

Nof 29.05 5.00 Down

Net 44.95


Enioy superb performance and sove money too by building this top quolity ampli. fier. The kil includes Acrosound's Fomous 10. 330 output tronsformer which provides high undistorted pawer, Dush-pull porallel ultro-lineor operation. Roled power outpul 60 wotts, with 130 wotl peok. Mermonic distortion less thon $0.3 \%$. Frequeser ro sponse: $16.90,000 \mathrm{cDs} . \pm 0.1 \mathrm{dt}$ at 60 W Damping foctor 17. Hos input lovel can-

MODEL HF6OK 60 WATT ULTRA LINEAR HI-FI
POWER AMPLIFIER KIT
rrol, bios and bias-belance adiustments, standord socket for preomp power roke.of and remote on-off switching. $7 \times 14 \times 8$ " Shpe. wi., 30 lts .
C.440WX Kit 7.30 Down Not 72.95 HF60 Some os obeve, but foctory wired. G-441wx .. 10.00 Down Net 99.95 E-2 Motching Cover. Shpg. wh., 3 lbs.


Feolures o new 3-stoge tone control cir cuit driving a true varloble craswever feed bock tone contral stoge. Complete, versotile contral focilities for ony progrom mo terial. Frequency Response - $\pm 0.3 \mathrm{db}$ 5-200.000 cps. Marmonic Distortion $0.1 \%$ of 3 v rms out. Sensitivity -12 v rms
 Mas, 3 mv microphone 1 mv ; Tope Head Mag, 3 mvi Microphone 1 mv : Tope Heod prols: Seloctor-Equolizer (Aux, TY Tuner Mrols: Soloctor-Equolizer (Aun. IV Tuner, Mic. Tope-NA
78 . RIAA COL
. 8. RIAA, COL. ION) Boss. Treble

## NEW: EICO MODEL HF65AK HIGH FIDELITY <br> MASTER CONTROL PREAMP

nosi contral. Hum-07db on hi-level in puli and -60 db on low level input. De rive Dower from ElCO or other bosic power omplifiers. $12 \times 81 / 4 \times 3 \% / 4$. Shpe Gi.ist Kil... 5.00 Down...Net 29.95 HF65A Some of obove, bul fociory wired. G-437 ........ 5.00 Down Net 44.95 HF65K Some os HF65AK, but with power iupply. Shpg. Wi.. 10 lbs. G-438 $\quad$ 5.00 Down Nel 33.95 HF65 Some os HF65K; but factory wired.

# EASY to build HI-FI KITS 



## DYNAKIT PAS-2 STEREO PREAMPLIFIER KIT

- COMPLETELY INDEPENDENT TONE CONTROLS
- ALI CRITICAL PARTS PRE-ASSEMBLED - UNIGUE DYNA BLEND CONTROL

The PAS. 2 stereo preomplifier includes two independent high gain, tow noise preamplifier.control channols ond cempleto stereo facilities. Inputs: 3 stereo tow lovel ond 4 stereo high level. Outpuls: Iow impedance sudio output and tape output. Frequency response: $\pm 0.5 \mathrm{db} 6.60 .000 \mathrm{cps}$. Distortiont less than $.05 \%$. Nolse: less than 3 uv. equivalent noise input on $\mathrm{RI} \overline{\mathrm{A} A}$. Gain: 60 db at 1000 cps on RIAA. 20 db on high level. Tubes: $412 \mathrm{AXP} / \mathrm{ECC}-83$, $6 \times 4$, selenium rectifer. Toxtured vinyl finish. Sizes 13 x $8 \times 4^{* N}$. 5 hpg . wt., 11 lbs.
G-4s3w KH
0.00 Down

Dynokit PA5-2 Stereo Preamp. Same os above, but completoly wired. Shpo. wh., 11 lbs, G-454WX
10.00 Down

Not 59.95

## NEW DYNAKIT STEREO 70 <br> 70-WATT STEREO AMPLIFIER KIT

- assolute stabiutt of operation
- DUAL DYNA BIASETS FOR NON-CRITICAL ADJUSTMENT

The steree 70 has 2 independent power ampllfers capable of 35 watts of cantinuous power on each chonnel or 70 walts of power for menophonic use. Frequency respenses $\pm 0.5 \mathrm{db} 10-40,000 \mathrm{cps}$. Im distortion: less than $1 \%$ of 35 watts. Sensifivityr $i .3$ volts ims input for 35 wotts output. Output im. distorfion: less than $\%$ of 35 watts. Sensifivityr 1.3 volts ims input for 35 wotts oufput. Output im. pedonce:
$13 \times 91 / 2 \times 61 / 2{ }^{\prime \prime}$. Shpg. $w 1 ., 32 \mathrm{lbs}$.
©-455WX KIt
10.00 Down

Not 99.95
Oynallt Sterea 70 Stereo Ampllfier. Some as above, but cempletely wired G.456WX
13.00 Down

Not 129.95


## NEW DYNAKIT MARK III 60 WATT

POWER AMPLIFIER KIT

- PRE-WIRED PRUNTED CIRCUIT ASSEMBLY
- MATCHED PAIR PREMIUM TUBES
- CHOKE FILTERING TO MINIMIZE NOISE

Compect 60 watt basis amplifier designed for tinest listoning quality in madern hifi installations. Prewired printed circult assembly with ports mounted assures correct trouble-free construction in as little as three hours. Accurate ond simple bios setting independent of meter oscuracy Bolancing or critical od. justments are not required to mpet performonce specificotions. Frequency rexponse better than $t$ tb Justments ore not required to meet performance specificotions. Frequency response better than $\pm .5$ db from below 6 cps to above 60 kc . Response of ony level up to 60 wotts is $\frac{1}{50}$ db over a ronge in excess of 20 cps t. $20 \mathrm{lc}$. . Im distortion less than $1 \%$ al 60 woth, $.5 \%$ below 50 wotts and $.04 \%$ ap overage listening levels. Less thon $1 \%$ harmonic distortion within 1 db of 60 watts from 20 cps to 20 he. Excel. tent tronsient response on pulses, squors woves, etc., and nolse 90 db below maximum. 4, © and 16 ohm outputs. Usilizes 1 GANB, 2 KTB8 (or 6550 ). I G234 and selenlum rectifier. Woshable, chip-proof vinyt caated finish on cover. All ports, tubes ond prolective cover included in kit. Shpg. wi., 28 libs.

## G-457WX Kit

G-458WX As obove but wired
G. 459 WX Kit with 70.7 voll output for P.A. use.

### 8.00 Down

10.00 Down
8.50 Down

Net 79.95
Net 79.95
Net 84.95


NEW! DYNAKIT PAM-1
PREAMPLIFIER KIT

- PRINTED-CIRCUIT MODULE
- 5 INPUTS - 2 OUTPUTS
- A.C. CONVENIENCE OUTLETS
- INTEGRAL D.C. HEATER SUPPLY

A quatity greamp-control unit incorporalling foctory-wired printed-circuit module for eary and accurote assembly. Current and voltoge feedbock loopi include four staget of goin. Inputs: Low-lovel magnetic cortridge, high-lovel magnetic, radio. TV, fope, plus "special" low level loption of extra RIAM phono input, tope head, or mike). Outputs: Tope ono oudio output. Controls: Selector equalizolion, bass, treble, volume, tope montror, loudness, hum-bolonce. Tone-Control Ronge: $\pm 14 \mathrm{db} @ 20,000 \mathrm{cps}$, $\pm 20 \mathrm{db} @ 20 \mathrm{cps}$. Phono Equalization: RiAA. 78 rpm , original Lp focrurocy ensured by use of $1 \%$ components). IM Dlistertion: Less thon . $05 \%$, unchonged of any setting of volume control. Response: $\pm 0.5 \mathrm{db} \$ 60,000 \mathrm{cps}$. Gains 34 db @ 1000 cps (RIAA inpul), 20 db @ $20-20,000 \mathrm{cpi}$ ( HIgh -level inpul). tmsedonces: 1000 ohms (output), 500,000 ohms or higher (ferminating). Tubes: 2-ECC/12AX7 plus selenium slock. Power Requirements: $200-400$ volts d.e. © 3.4 ma. 6 volts a.c. © . 75 amps. Slzet $2 \%{ }^{*}$ high $\times 12^{\prime \prime}$ wide $\times 6^{\prime \prime}$ deep. Shpg. wt., 7 Ibs: Choice of bone white or chorcool brown viayl finist
G-465 Kit
5.00 Down.
Net 34.95
G-466 As obove, but wired
6.00 Down
Net 59.95

## DYNAKIT ACCESSORIES

PS. 1 Dual Power Supply KIt, Shpg. wi.. 4 Ibs.
G-460 KII
Net 8.95
G-4! $A_{\text {s obove but wired }}$
Net 14.95
PM-I Panel Mounting Kif fer Preamp PAM-1. Shpg. Ft., 2 ibs.
G-462 Kh
PM-2S Panal Mounting Kit (2 PAM-1 a ( DSC-1). Shpg. wi., 3 lbs.
CM-25 Walnut Cabinet Mount (2 PAM-1 8 I OSC.1). Shpe. wi. it
GM-25


DYNAKIT MARK IV 40 WATT POWER AMPLIFIER KIT

The Mork IV is o 40 woll bosic ompllfier. Power oulpuli 40 wottz conlinuous, 80 watts peak. Frequency oulpuls 40 wotts conlinuous, 80 wotts peok. Frequency tesponse: 4.5 db of 10 watts, less than $.05 \%$ of 1 wott. Hum and than $1 \%$ of 40 watts, less than $.05 \%$ of 1 wott. Hum and nolses better than 90 db below 40 wotts. Output im pedance: 4, 8, 16 ohms. Sensitivity, 1.3 volts 1 ms inpu for 40 watis output. Tubess 2 EL-34, 7199, G2-34, sole nium reatifer. Finish with nickel chassis, and vinyl cooted chorcaal brown cover. Power consumplions 115 wotls. Sizes $5 \times 14=61 / 2^{\prime \prime}$. Shpg. w1., 20 lbs .
G-440WX KIt ................ Net 59.95 Mark IV 40 Watt Ampllfier. Some os above, but com pletely wired. Shpe. wi., 20 Ibs.
CHSOWX ..................8.00 Down ........................ 79.95

##  <br> NEW DYNAKIT STEREO CONTROL UNIT DSC-I

Designed to be used with pair of Dynaklt (or comporable) preamps, the OSC. 1 adopter provides steree control faclitier at moderale cast. Dual valume control odfusts level of both stereo channels simultaneously - Bol usts level of both stereo channels simultaneously - Bol ance conirol of signal level differences between channel - Blendrontrol - Channel reversing - Loudness Stereo tape A.B monitor for stereo recording from discs or off-the-oir $33 / 4^{\prime \prime} \times 6^{\prime \prime}$ ponel, weight 2 lbs. Enclosure harmonizes with companion preamps
G.451 KIt Speclify white or brown.

Net 12.95 6.452 As obove, but wired

Net 18.95


35-walt "Ultro-Linear" power amplifler (70 walts peok). Frequency response $5.100,000 \mathrm{cps} \pm 1.5 \mathrm{db}$ © 35 wolts. IM Distortion $(100 \& 7000 \mathrm{cDs}) 1.5 \%$ and harmonic dis. tortion below $1 \%, 20.20,000 \mathrm{cps} \pm 1$ db both of 35 wotts. Hum po db below roted output. Speoker tops 4 . wotts. Hum 90 db below roted output. Speoker tops
8,16 ohms. Power consumption 130 watts @ 117 valts 8 80 cps. Size: $7 \%$ high $\times 14^{\circ}$ wide $\times 8^{\prime \prime}$ deep.

MF35K 35 Wolts Power Amp. Kif. Shpg. wf., 25 lbs.
G-12WX ................. 5.00 Down ...................... Net 47.95 G-12WX G-413WX HF35 Wired ....... 7.30 Down E-2 Motching Enclosure. Shpg. wt., 3 lbs G-414W

Not 4.50

Five-tube "Ulira-llinear" hb.fi amplifier roted 22 watts continuovi, 44 watts peok. Low-noise EF86 direckcoupled 6SN7GTB drives push-pull 6L6GB lopped-screen oulpu stoge. Will handle 4, 8, 16 ohm speokers, including elec irostatics. Frequancy respanse $\pm 1.5 \mathrm{db} .5 .100,000 \mathrm{cps}$ @ 22 watts. IM distortlon $(60$ \& 7000 cps) $1 \%$, harmonic distortion below $1 \%$ from $20.20 .000 \mathrm{cps} \pm 1 \mathrm{db}$, both of 22 walts. Hum 85 db below roled output. Sensilivity 0.6 volt for 22 wolt output. Power consumptlon 90 watts from 117 v, 60 eyclesource. Size: $7^{\prime \prime}$ high $\times 14^{\prime \prime}$ wide $\times 8^{\prime \prime}$ deep. HF22K 22.Walts Power Amp. Kit. Shpg. wf., 25 lbs. G-45wX Kit ……….... 5.00 Down ..................Nef 38.95
 G-16wx HF22 Wired Motching Enclozure. Shipg. wt., 3 Ibs. G-4 I4W

Not 4.50

Williomsonetype 14 watl (28 wotts peok) power omplifler. Frequency response $\pm 0.5 \mathrm{db}, 10 \cdot 100.000 \mathrm{cps}$ (c) 1 woft. Harmonic distartion less then $1 \%(50.10,000 \mathrm{cps})$ and Im distortion $\{100$ \& 7000 cps$) 2 \%$-both © 14 wots. 20 db inverse feedback. Hum 90 db below rated output. Tuber: 1-ECCB3/12AX7. 2-EL84, 1-EZ81. Speoter lops 4. B, 16 ohms. Size: $3 \%$ high $\times 12^{\prime \prime}$ wide $\equiv 4^{\prime \prime}$ doep. HP14K 14 Wafl Power Amp. Kit. Shpe. wf., 10 lbs. G-417 Xit ...................5.00 Down ....................Net 23.50 Q.4 18 HFI 4 Wired .............5.00 Oown..............Not 41.50 3-6 Motching Enclosure Shpg wit 3 lbs E-6 Morching Enctesure. Shag. Wh. 3 lbs. Net 4.50


## Latayette <br> SPECIAL PM VALUES

| Stock No. | Size | Shpg. Wt. | Singly. Each | Lets of Each |
| :---: | :---: | :---: | :---: | :---: |
| SK-61t | 11/2" | 1 tb . | 1.49 |  |
| SK-6S | 21/2" | 116. | 1.49 | - |
| SK-66t | 21/3" | 116. | 1.49 | - |
| SK-17* | $4{ }^{* \prime}$ | 1 lb , | 1.39 | 1.39 |
| $5 \mathrm{Sk}-25$ | $4^{\prime \prime}$ | 116. | 7.79 | 1.59 |
| SK-12* | $5 "$ | 1 lb . | 1.45 | 1.35 |
| SK-26 | $5{ }^{\prime \prime}$ | 116. | 1.89 | 1.69 |
| 5K-13* | $6^{\prime \prime}$ | $11 / 2$ ibs. | 2.09 | 1.89 |
| SK. 27 | 6 | $11 / 2 \mathrm{lbs}$. | 2.37 | 2.29 |
| SK-14 | $8^{\prime \prime \prime}$ | $21 / 4 \mathrm{lbs}$. | 2.95 | 2.85 |
| SK-34 | $10^{\prime \prime \prime}$ | $41 / 3$ Ibs. | 3.45 | 3.30 |
| SK. 41 | $12^{\prime \prime}$ | 5 lbs. | 3.95 | 3.75 |
| OVAL PM SPEAKERS |  |  |  |  |
| $\begin{aligned} & S k-16 \\ & S K .33 \end{aligned}$ |  | $11 / 2 \mathrm{lbs}$. | 2.09 |  |
| $\begin{aligned} & \text { SK-33 } \\ & \text { SK-90 } \end{aligned}$ | 517 $6 \times 0$ | $11 / 2$ Ibs. | 2.39 | 2.15 |
|  |  |  | 2.6 | 2.50 |
| EXTRA HEAVY DUTY 6" ² $^{\text {Pr }}$ PM |  |  |  |  |
| This $6^{\prime \prime} \pm 9^{\prime \prime} P M$ has a giont 2.15 oz . Alnico $V$ mognet. Volce coil 3.2 ohm. Shpg wt., $21 / 2$ lbs. |  |  |  |  |
|  |  |  |  | ...-... 2.9 |
| Singly, each |  |  |  | 3.1 |

## MODERN SPEAKER BAFFLES <br> Well buill olywood speaker boffles for Indoor public od



$12^{\prime \prime}$ MODEL wer ane quolity throughout, these speokers hondi is especiolly for publle oddress work. Will singly for medium power systems or in multiples for higher pewer, Rugeed mechonical construction, dust-proofed and rust-rasistant. Hove 4.64 oz . Alnica 5 magnet, 8 ohm voice coli. Shpg. Wi., 5 ibs.
5* 118
8" MODEL - Ideol for larger icote, lower power poing systeme. Same quatity os $12^{\prime \prime}$ speaker obove, but $8^{\prime \prime}$ diamefer, roted of 10 watts, with 3.16 oz. Alnico 5 mognet. SK. 5 ohm roice sail. Shpo. wt., 3 lbi.

Net 3.95 SK-119

## UTAH MICROGAP PM SPEAKERS

Feotures fomous MICQOGAP precision in centering of voice coll, giving increosed and Alnici $V$ ensilivity. Alt heovily codmium pioted, and rust proof construction. All with \& have ransformer bracket

SPEAKERS
SPECIAL 12"\& 8"' P. A. SPEAK RERS - HEAVY ALNICO 5 MAGNETS

8" MODEL - 3.95
$12^{\prime \prime}$ MODEL -4.95 dress ond poging systams, intercoms, extension speckers, -te. Frieze-design grille cloth, modern wolnut finish.

| NO. | DESCRIPTION | EACH | EACH |
| :--- | :--- | :--- | :--- |
| SB-10 | For $5^{\prime \prime}$ or $6^{\prime \prime}$ | 2.40 | 2.25 |
| SE-11 | For $8^{\prime \prime}$ | 2.75 | 2.55 |
| SB-13 | for $10^{\prime \prime}$ or $12^{\prime \prime}$ | 4.40 | 4.20 |


\section*{ <br> 21/2" PM SPEAKER AND BAFFLE | SPEAKER 1.49 |
| :--- |
| BAFFLE $\quad .75$ |}

## MINIATURE

- IDEAL FOR MINIATURE WORK
- MIN. plug and Jack CONNECTION
- CHOICE OF VOICE COILS

A highly efficient PM speoker and corefully designed bolfle thel mokes on ideol combination for the experimenter. The speoker olso mokes on ideol replocement for many portoble sels. Sperker is $21 / /^{\prime \prime}$ squore, $11_{4}{ }^{\text {n }}$ deep with
mousting holes on $2^{\prime \prime}$ centers Hondiome min mousting holes on $2^{2 \prime}$ centers. Hondsome moroon lough plastir baffle comes with bulls-in iock and min. plugs for quick easy connections. Sire of bolfle 3" $\mathrm{H} \approx 2 \%$ " $W$. SK-65 - Speoker only with 3.2 bin SK-60 -Speoker only with 10 ohm V.C. M5-315-Boffle onir

Ne1 1.49 Net 1.49 Net .75

## TINY PM Speaker



At losi-the tiny super speoker you've been searching for Experimenter's, kit builder's, and circult designer's delight for Tronsistor ond subminiolure recelvers, omplifiers, ond morcuts. Only $1 / 2^{n}$ diameser by $15 / 16^{10}$ deep. Alnica 5 Surprising treanm voice coil - total weight onty $1 \%$ oz. of front by four $\%{ }^{\prime \prime}$ mounting holes on $1.9 / 32^{\circ \prime} \times 1.9 / 32^{\prime \prime}$ mounting centers. A true Lofoyette first super volue of this SK.61 low pricel Shpg. wi., 6 oz

SPEAKER WITH OUTPUT TRANSFORMER
 most ronisior outputs). Shpe. w1.8 8 oz.
$\mathbf{S K}-62$

WORLD'S SMALLEST PM SPEAKER

- Complete With Miniature Output


One of the most flexible speakers model Combines hlgh sensitivity as 0 microphone with relatively high powerhondling copocity as o speoker to moke it perfect for "wrist-rodio" use, for tronsistor rodios down to oboup \%" thickness, for minioture tronsistor infercams and felephone. type hondiets, extremely small heoring aids ond numerous other miniature applicotions.
This omazing speoker delivers opproximotely 0.5 millivolts overoge oupput of a dynomic microphone ond may be used by lisalf connected directly to a high impedance omplifier microphone inpuf. Of-it may be used with the trons long low-impedonce ( 14 ahms) line with or volloge step-up of opproximotely $20: 1$.
The speaker is copoble of handling up to 300 milliwatts of audio power. Frequency response is $\$ 30$ to $5000 \mathrm{cps} \pm 10$ db. Resonant frequency is $600-700 \mathrm{cps}$. Voice coil im. pedonce is 16 ohms. The minioture tronsistor output transformer supplied has a primory impedonce of 8000 ohms, single.ended. Transformer size is $1^{\prime \prime} w 11 / 16^{\prime \prime}$ $3 / " \mathrm{~h}$, with $1.5 / 16^{\prime \prime} \mathrm{mtg}$. centers. Shpg wf., $1 / 2$ tb.
SK. 96 -Min. PM Speoker \& Output Tronsformer. Not

## 4"PM SPEAKER IN WOOD BAFFLE

- 25-FT. SPEAKER CABLE WITH PLUG BUILT-IN JACK An ideol extension speoker, excelient for use in multi-speoker low powet poging sys. tems, for infercom systems, os on cuzillory bench speaker in service work, ofc. Includes modern-looking decorotive 2 -tone wolnut and block wood boffle. The boffle hos slopingfront and enclosed-back acoustic construction and has o buill-in fock for plugin can 4 lbs.
SK-10s


## AUTO SPEAKER KITS-Garage Door Openers-Accessories



## HI-FI REAR SEAT AUTO SPEAKER KITS



## FEATURING 6KO COAXIAL

$6^{\prime \prime} \times 9^{\prime \prime}$ KIT WITH CHROME OR GOLD GRILLE Complete $k+1$, odding second speoker in rear of your cor. Includes a $0^{\prime \prime} \times 9^{\circ} \mathrm{PM}$ speoker, 3 3. 30 on solector switch for culting in front, rear, or both speokers; diat plate with noumting brockel, knob, ard hardwore, chrome or gold grilles wire; and wiring instruections. simple to instoll. Shepe. wh., 5 lbs.
sk. 94 Specker kit (specily chrome or sold grille)
DEUXE $6^{\prime \prime} \times 9^{\prime \prime}$ KII with 2.15 or. ALNICO $V$ MAGNET Same as above but with deluxe speake with oxtro.heowy Alnico V moonet (2.15 or.). This is some speoker used in kits sell ng of iwice the price. Shpg. wh., 5 lis. SK-37 Specher kit (specify chrome or gold grille).

## $5^{\prime \prime} \times 7^{\prime \prime}$ KIT

SK. 42

## FADER TYPE AUTO KITS

Rear-seat syeoker kits identical to those obove except with fader-type contrals to cut either peoker in or out or balarce both. Shpg. wt., 5 lbs. Specify chrome or gold orille.
SK-5 $55^{\prime \prime}=7^{\prime \prime}$ kit. Some os $5 K-42$ but with fader contral. SK-95 $\mathrm{b}^{\prime \prime} \times 9^{\prime \prime}$ kip. Some as SK-94 but with fader control

## DELUXE $6^{\prime \prime} \times 9^{\prime \prime}$ FADER KIT

Deluxe kit with extro-heory-magnet " $\mathrm{z}^{\prime \prime}$ " speoker, plus fader cantrol. Specify throme or gold grille. Shpg. wl., 5 lbs.
SK- $566^{\prime \prime} \times 9^{\prime \prime}$ kit. Some os $5 K-37$ but with foder

## DUAL HI-FI <br> REAE-SEAT SPEAKER KIT <br>  <br> "Universal" speaker kil includes wa Alnica $V$ wits - a $51 / 2^{\prime \prime}$ woofer and $3^{\prime \prime}$ tweoter with electronic crossover rot. work; chrome grille; and baffe which fits regula $\times 9$ cul-aufs plus pre. Wired, presoldered, j-pasilion swish. Kit comes complete with on ossoriment of odopters and connectors plus o univemal horness for easy instotlotion in any cor. Shpg. wh.. $\&$ lbs. SK-116 Dioll-speaker kit

## NEW! TRANSISTORIZED RADIO-CONTROLLED GARAGE DOOR OPENER



Enioy the convenience ond safety of on outamatically operated gorage doar with this fully guaronteod unit by Perma.Power. Elfminales nigh. time and soiny day hozarss by raising or lowering the doar and aperating garage light fram the protection of your cor's frant seal System includes the motor mechonism, radio transmither and receiver, antennas, mounting hordware, wiring, woll switeh, etc. Tronsmitfer is crystal-cantrolled oad operotes on R/C Irequency of 27.255 mc . Transistorized transmister operoles on self-contained inexpensi et bottory which lasts aver eyear in narmal use. It fits in your hond, requires no inspollation ond may be carried in pocket, purse, or atored in glove comportment.
Exclusive coded channel dasign prevents mis.functioning. Operotion is interference.free. The $1 / 4 \mathrm{hp}$ motar will operate one-piece fiftup or secional roll-up type doors. Cne-mon installation. Easy step-by-step Instructions. Shpg. wt., 65 lbs ML-178WX MODEL G. 520 Completo R/C system
ML. 179 AODEL C. 325 Exira transm ther for second cor. Shpg. wi., I ib.

Net 139.90 ML-180 AODEL C.511 Koy switsh far ouldoor location. Shpg. wi., \% Ib

Net 24.50
Net 4.20

Nel 3.45

Net 4.65

Net 3.29
Net 3.69

Net 4.89
SPEAKER WITH TWIN TWEETERS AddHi-ri Listening to Your Car Identical to 5 K .37 auto speoker kit shown on this page except hos hi-f $6^{\prime \prime} \times \mathrm{on}^{\prime \prime}$ coox spooker insteod of single-cone unit. Excellent for music lover who wants quality reproduction. Specify chrame or gold grille. Shpg wt., 6 lbs.
SK-77
Nef 8.80

## FADER TYPE AUTO KIT

Coaxial speaker kit (some os SK.77) with fader for Aexible control of both front seot ord rear speokers and sound bolancing. Specify chrome or gald grille. Shpg. wi., 6 lbs. SK-78

Net 9.00

## dUal-SPEAKER FADER CONTROL



Controls the volume of bath frant ond rear speakers. Gradually reduces volume n one spooker while increasing volume on the other. Confral cames completely mounted on block ond silver metal plate with ivary pointer knab plus attached wiring for connections to both speakers. With mts hardware and inspructions. Shog. wi., $1 / 8 \mathrm{lbs}$.
MS-18\%
Net .83


CHROME GRILLES
Hondsome perforated metal grilles fo rear-seal specker use or other instolla. ML-17, $4^{\prime \prime} \times \theta^{\circ}$ instollation ML-69, $5^{\prime \prime} \times 7^{\prime \prime}$ installation ML-16, $6^{\prime \prime}$ n $^{\prime \prime}$ Installotion ML-38, $8^{\prime \prime}$ installation

GOLD GRILLES
ML-148, $5^{\prime \prime} \times 7^{\prime \prime}$ installotion
ML-149, $6^{\prime \prime} \times 9^{\prime \prime}$ installotion ary speaker for all station wagons sinale ary speoker for all station wagons. Single swival bracket 3 -position switch with dial slate ond lnob. Plug-in harness aitapters plate ond knob. Plug-in harness odapters. Comes complete with instaltation instruc SK-117 Station Wogon Spkr. Kit

Nel 6.95
3-WAY SPEAKER SWITCH ${ }_{59}$

For use with iwa speakers. Three-position switch gives choice of frant speaker olane, rear specker alone, or both 10. gether. Cames completely assembled on black and silver metal plate with ivory indicetar knob and attached wiring for cannection ta bath speakers. With hord. ware and simple instructions. Shipg wi $1 / 8$ lb.
MS-266
Net .59

> ADAPTERS-JACKSPLUGS-CONNECTORS


MS-411- (A) Adopter converts Moloralo to Delce fitting ................................tet 09 MS-412-(B) Matarola loct ......Nef . 13 MS-413-(C) Motorola plug ....Net .08 Antenno connector (D) Spring-loaded. Use between leod-in and auto radio. MS-4 14

AUTOMOTIVE ACCESSORIES

(G)


Replocement Leod (G). 54" universal lead. Fits all populor make auto ontennos. Low-loss, high " $Q$ " coor cable. Shpg. wi., I ib AA. 37

Not 1.35
Universal Extemsion Leod. Adds needed length to existing leads.
AA. 38 ......... 24 inches ……. Nef . 65 AA-39 ...... 36 inches ........... Nel . 75
Noise Suppressor Kits (N). For all 6. cylinder cars. Includes sporkplug suppres. sors, distributar suppressor, generator ond light or ammeter copacitors. With in. structions. Shpg. wt., 602.
MS-418
MS-4 19 for 8 -cylinder cors.

Net 2.65
Net 3.06

# Auto Radio Antennas and Accessories 



## UNIVERSAL 6 \& 12 VOLT VIBRATORS

Direct replocements for most popularly-used types. All brand new factory-fresh stock Made by leading motional monufacturers. Fully guaronteed. Shpg. wt., $1 / 1 \mathrm{lb}$.

## AS LOW AS 95.

Price Schedule
All iypes moy be ossorted for quantity prices.
Lots of $1,0$.
Lats of 5, 0 .
Lats of 10,
Lots of $25,00$.
Lots of $100,00$.

STOCK NO. MS. 14 6-VOLT 4-PRONG Replaces Malloty 294, 859. MOIM; Rodlart 5300 , 5301; and many others.

STOCK NO. MS-127 12-VOLT 3-PRONG Replaces Buick. Olds, Pontiac and GM port no. 1220155 ; Mallory G874. CD 6330, Delco 8550; and Voltar 3129.

STOCK NO. MS-128 12-VOET 4-PRONG Reploces Mallory G859, Motorola 488522000, Philco and Mopar 83-0025-1, ATh 1340, Voltor 4124; and


NEW LOW COST AUTOMOBILE ANTENNAS all antennas constructed of chrome plated brass


STANDARD SIDE COWL (A)
3 section ontenno moasures $25^{\prime \prime}$ collopsed, and extends to $571 / 2^{"}$. Mounts with two polystyrene stand-off insulators. Complete with 34" lood, ond tip jack. AA- 12

## DELUXE SIDE COWL (A)

This 3 section onlenno is designed for long distance opplications, where greater sensitivity is required. Antenna measures $34 \%^{\prime \prime}$ collopsed and extends to $90^{\prime \prime}$ Mounts with 2 bakelite Insulators. Complote with $54^{* 2}$ lead and tip jack. Shpg. wi., $11 / 2$ |bs.
AA- 15 ..............................................

Net 2.65

## TOP COWL MOUNT (B)

3 section antenna meosures $23^{\circ "}$ callapsed, and er. tends to $54^{\prime \prime}$. Mounts on polyethylen insulotor. Shpg wt ., IV lb
.Net 2.00
UNIVERSAL MOUNT AERIAL (C)
Can be mounted anywhere on car. Adiusis to any angle. 3 section, measures $24^{\prime \prime}$ collopsed, extends to $60^{\prime \prime}$. Complete with $54^{\prime \prime}$ lead. Shps. wt., $11 / 4$ lbs. AA-22

Net $2-39$
HOT-ROD AERIAL (D)
4-section, extends to $108^{\prime \prime}$ from $35^{\prime \prime}$ caltapsed. Has shock absorbing solid rubber mount, red tenite stasic ball, red ceramic insulators. For rear mount on fender
or under trunk door. With 15 foot polyethylene coble Shpg. wt.. 3 lbs.

Nel 4.98
MINIATURE ANTENNA (E)
For conceoled instollotions. Meosures less thon $3^{\prime \prime}$ closed, and extends to 54". Ideol for police, newspoper, elc., applicalions where canceolment of 2-way radio is desired. Shpg. wf., 2 lbs. AA. 24

REPLACEMENT ANTENNA STAFF (N) 3 section $57^{\prime \prime}$ replocement staff. Telescoping stoff re places antenno last through accident or vandalism. Mounis on stub af braken antonno. Simple hex sel screw mount. Shpg. wt., I lbs.
AA-30
Net 1.20
ELECTENNA (G)
Replacement antenna and coil. Measures only $17^{\prime \prime}$ long. Increases gain over standard $54^{\prime \prime}$ ontenng by up to $100 \%$. Installs quichy and simply. Shps. wi., I $1 / \mathrm{l}$ Ibs. AA-31

## TRENDTENNA (F)

Combines the advantages of the powertul Coiltenno with those of a telescoping antenno, to produce the utimate in super-sensitivity. Increases radio performance mony times over slandard onfenna operation. Meosures


## MALLORY



Replocements for all populor sets. Consulf "Mal. lary Vibrotor Guide" for correct replocement

## unit. <br> MALLORY VIBRATOR GUIDE

free with oider for Mollory vibrotors.

| TYPE <br> WO. | 20115 | $\begin{aligned} & \text { WET } \\ & \text { EACH } \end{aligned}$ | $\begin{aligned} & \text { TYPE } \\ & \text { MO. } \end{aligned}$ | V0L15 | HET |
| :---: | :---: | :---: | :---: | :---: | :---: |
| F294 | 32 | 4.20 | 143 | 6 | 4.53 |
| -F3265/Fi26C | 32 | 4.55 | 748 | 6 | 4.53 |
| 6194 | 12 | 5.03 | -8255/825C | 6 | 4.06 |
| 61501/64501 | 12 | 4.06 | 254 | 6 | 2.18 |
| 61601/C859 | 12 | 2.76 | 170 | 6 | 2.88 |
| 61602/6883 | 12 | 2.76 | 103m | 6 | 2.12 |
| -616035/6814C | 12 | 4.53 | \$954 | 6 | 4.53 |
| 61101/64549 | 12 | 5.03 | 1501/4501 | 6 | 3.70 |
| -618013/6725C | 12 | 5.85 | 1512/4512 | 6 | 4.06 |
| -18025/6749C | 12 | 5.85 | 1513/4513 | 6/12 | 4.06 |
| -618035/6567C | 12 | 5.85 | 1514/4514 | 6 | 4.06 |
| 61807/C4548 | 12 | 5.03 | 1601/859 | 6 | 2.76 |
| 61808/G4546 | 12 | 5.03 | -16035/126C | 6 | 3.70 |
| M1501/m4501 | 24 | 4.06 | 1604/1100 | 6 | 2.81 |
| 14002 | 2 | 6.29 | 1701 | 6 | 5.65 |
| 14003 | 2 | 5.76 | 1751 | 6 | 5.76 |
| W1601/wns | 4 | 2.81 | 1752 | 6/12 | 5.70 |
| W1802/W739 | 4 | 4.85 | 1801/142 | 6 | 4.53 |
| 247 | 6 | 4.53 | 1801/4549 | 6 | 4.53 |
| 2736 | 6 | 5.38 | -18015/125C | A | 5.03 |
| 194 | 6 | 1.88 | 1801/245 | 6 | 4.53 |
| 194 | 6 | 3.73 | 1800/576 | 6 | 4.53 |
| 509 P | 6 | 2.44 | 1101/4541 | 6 | 4.53 |
| 116 | 6 | 4.53 | 1808/4546 | 6 | 4.53 |
|  |  |  | 1852 | 6 | 5.72 |

## SCHAUER KAR-START <br> STARTS WET <br> OR COLD <br> ENGINES <br> INSTANTLY <br> 

If you pork your cor oufside in wet or winiry weother, you need Kar-Stort. At instont of start. ing, Kor-Stort sends five times the normal amount of spark from your plugs for sure-fire starts. Used or storting only. It is outomoticolly disconnected or distributor simply . asily installed with fust 3 auich connections. Save your battery, lim and quick connections. Save your batlery, lime and emper. Shipping weight I lb
MS-690 for $6 \mathbf{V}$ cars list 6.50 net $\$ 4.20$ M 5.700 for 12 V cors lisi 7.95 nel $\$ 5.15$

## "Pothfinder" <br> delayed-action <br> safety ear <br> light switch



Discourage attempts at "mugging," holdups, etc.. with this deliyed-action switch, needed by every car owner. Simple to install, it permits you to leave your car at night with elither headtights, tail lights or parming lights on. You have time to walh $75-150 \mathrm{ft}$. before the lights go out automatically! Operates entirely independently of your regular light switches. Beautiful dashboard accessory, deslgned for your family's protection. Operates on 6 or 12 volt electrical systems. Shpg. wt., $1 / 2$ it. SW-25 Pathfindef Switch

Net 2.39

## COILTENNA

Boasts performance of present antenno up to $400 \%$. Quickly and easily instolled. Fits all cars. Shpg. wt., 1 Ib. AA-32.
$\qquad$

# MOTOROLA AUTO SETS FOR ALL CARS 

## MOTOROLA SPORTS CAR AUTO RADIO

FITS MANY FOREIGN.
SPORTS,
TRUCKS,
BOATS
REG. V ELUE Jeqes.
ONLY $\$ 49.80$

## $\$ 3.00$ DOWN - \$5.00 MONTHLY

- TRANSISTOR-POWERED CHASSIS
- No verayor-No vierator moise
- REVEESIBLE POLARITY PLUG
- bon mew cats, oloer calis, foreion calls, tauces, moats
A really universal cor rodio lar all tyoes of cors ar boots with 12 valt electrical systoms. Small-meosures only $6 \% \%^{\prime \prime}$ wide $x^{2} 23^{\prime \prime}$ high a $^{4} 42^{\prime \prime}$ deepl Feotures polority reversal (by simply rotating a plug) for cors with pasitive or nogotive groupds. Includes s minloture tubes plus of power tronsistor. Audio output 2.8 wotls. No need to resel vol. ume contral when tuning-exeluitive Volumatic teeps loval constant. $5^{\prime \prime} \approx 7^{\prime \prime}$ heory-magnet speaker for excetient fone quality. Other fine featuren include vernier tuning and rich chrose finizh trim olote. Mounts by simply drilling 3 imall holes. Styling fits into any interior for o custom. installed look. Shipping Wi., 7 lbs.
MOTORCLA s00X Cer Modia ...................Net 49.80

NEW! MOTOROLA 2 TRANSISTOR MANUAL RADIO FOR 12 VOLT SYSTEMS


## *FITS MOST CARS, SPORTS CARS, BOATS AND TRUCKS

Expromaly compoct and efficient sel for In-dosh or under desh maunting in mos! cars os well of for pecially positioned instollotions. Feotures circult with 3 tubes nad 2 transistors, autamatis volume contral, $5^{\prime \prime}$ Golden Vaice speaker, noise eliminat. Ing circult and eatremely low battery droin. Size $6 \%{ }^{\prime \prime} w{ }^{2} 2^{\prime \prime} h \times 71 /{ }^{\prime \prime} \mathrm{d}$. Losp trim plote. Ship. ping weight, 6 lbs. For 12 voll Systems. MODEL $300 x$ for installations with nogotive round .................................................... 37.20 MODEL $301 X$ for installations with posifive FOR 6 VOLT SYSTEMS
Simplar to 300 X , but has 4 tubes and 2 transistors and is for 6 volt systoms. Less trim plote. Shipg. wr. 6 lbs.
Model 406
Net $\mathbf{3 7 , 2 0}$

FOI TRIM PLATES FOR IN-DASH AND UNDER-DASH INSTALLATION, SEE CHART

## CONSULT THIS CHART TO DETERMINE WHICH SETS FIT SPORTS CARS AND FOREIGN CARS

This ahart shaws o choice of sets to ith the electrical sysrem of your car, the type of installation, and If trin olate is required. A price in the column headed "TRIM PLATE" indiceter on accossory plote is requi ed of the price shown: otherwise no odded plate th neoded. In column headed "TYPE INST."
 000 e , = Dash requires simple alteration. Shpg. wh., 6 lbs . for afl 300x, $301 \mathrm{X}, 406$; 7 lbs , for all 600 X ' 8 lbs . for all $8 \mathrm{M}, 8 \mathrm{MX}$, and VWA8.

| MAKE AND MODEL | $\begin{aligned} & \text { USE } \\ & \text { SET } \end{aligned}$ | Thim | TYPE INST. |
| :---: | :---: | :---: | :---: |
| ALFA-RCMEO | $300 x$ | \$1.50 | A. |
| ARNOLT BRISTOL 1953.59 | $\begin{aligned} & 301 x \\ & 600 x \\ & \hline \end{aligned}$ | 1.50 | ${ }^{\text {A }}$. |
| AUSTIN | $301 \times$ |  | - |
| 195-59 | $8.00 x$ | - 35 | A |
| 8mW (10ETTA 300) | $300 x$ |  | c |
| -195*.59 | 800 x | 4.35 |  |
| BMW (1IETTA 6001 | 300x |  | C |
| 1958.59 | 600 x | 6.35 | ${ }^{*}$ |
| CORGWARD | 8 m | 4.35 | A |
| 195. 59 | 406 | 2.33 | A |
| 8RISTOI | $301 \times$ |  | B |
| 195\%.59 | 600 x | 4.35 | $\wedge^{\circ}$ |
| CITROEE (10.19) | 406 |  | $\Sigma$ |
| CITROE ${ }^{\text {193.59 }}$ |  |  |  |
| DKW | 108 | 1.50 | $\stackrel{1}{1}$ |
| 1953.59 | VWAB |  | A |
| ENGLISI FORD ANGUA, ESCORT PREFETT, SQUIRE 1953.59 | 301X |  | - |
| ENGLISE TOND CONSI-ZEPHYR zODIAC <br> 195.59 | $\begin{aligned} & 301 x \\ & 600 x \end{aligned}$ | $\begin{aligned} & 4.35 \\ & 4.35 \end{aligned}$ | A |
| $\begin{gathered} \text { FIAT } 1600.11001 \\ 19.50 \\ \hline-\quad .59 \end{gathered}$ | $\begin{aligned} & 300 x \\ & 600 x \\ & \hline \end{aligned}$ |  | 0 |
| $\begin{aligned} & \text { FIAT } \\ & \text { ROAOSTER } \\ & \text { 1OS. } 50 \end{aligned}$ | $\begin{aligned} & 300 x \\ & 300 x \end{aligned}$ | 1.50 | $\hat{A}^{\circ}$ |
| $\begin{gathered} \text { GOGOHOBIL } \\ 19 \pm 8.59 \end{gathered}$ | $\begin{aligned} & 308 x \\ & 600 x \end{aligned}$ $\ln x$ | 1.50 4.35 | ${ }^{\text {A }}$ |
| $\begin{aligned} & \text { HILIMAN MINX } \\ & 199.58 \\ & 109 \end{aligned}$ | $\begin{aligned} & 301 x \\ & 600 x \end{aligned}$ | $\begin{aligned} & 4.35 \\ & 4.35 \\ & 4.35 \end{aligned}$ | A |
| $\begin{aligned} & \text { JAGUAR (ALI) } \\ & 1950.50 \end{aligned}$ | $\begin{aligned} & 301 x \\ & 400 x \end{aligned}$ | 4.35 | ${ }_{8}^{8}$ |
| liove <br> 195759 | 406 |  | E |
| $\begin{aligned} & \text { MERCEES BENZ } \\ & \text { 19:5-50 } \end{aligned}$ | $300 x$ $600 x$ 8 mx | 1.50 4.35 | $A^{\prime}{ }^{\circ}$ |
| MGA 19-8.59 | $\begin{aligned} & 301 x \\ & 600 \mathrm{x} \\ & \hline \end{aligned}$ | 1.30 | A |


| MAKE AND MODEL | $\begin{aligned} & \text { USE } \\ & \text { SET } \end{aligned}$ | $\begin{aligned} & \text { TRIM } \\ & \text { PLATE } \end{aligned}$ | $\begin{aligned} & \text { TYPE } \\ & \text { INST. } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| MORRIS MINOR | 301 x | 4.35 | A |
| 1956.58 | 6.00 x | 4.35 | A |
| NSU PRIME | 300 x | 4.35 | $A$ |
|  | 600x |  | ${ }^{*}$ |
| OPEL | 406 | 4.35 | $A$ |
| 1958.59 | YWAR |  |  |
| PANHARD | 300x | 1.50 | A |
| 1957.59 | 8 mx | 4.33 | A |
| PORSCHE (ALI) | 406 | 1.50 |  |
| 1957.59 | 8 M | 4.35 | ${ }^{\wedge}$ |
|  | Ywas |  | ${ }^{\text {A }}$ |
| PEUGEOT | $300 \times$ | 1.50 | ${ }^{\circ}$ |
| 1958-59 | 8.Mx | 4.35 | ${ }^{*}$ |
| RENAULT DAUPHINE | 406 | 1.50 | A |
| 1CX-1295.58 | 8 M | 4.35 | A |
| RENAULY DAUPHINE | 300 X | 1.50 | A |
| 4cy.1859 | Rax | 4.35 | A |
| RILEY | 301 x |  | 8 |
| 1957.59 | 6.00 x | 4.35 | 8 |
| Roven | $301 \times$ | 1.50 | $\lambda$ |
| 1958.59 | 6.009 |  | ${ }^{*}$ |
| SAAE | 301 x |  | $B$ |
| 1958.59 | $600 \times$ | 4.35 | B |
| SIMCA AIIONDE | 300x | 4.33 | $\lambda$ |
| 1958-59 | 8 mX | 4.35 | , |
| SIMCA VERSAILLES | 300 x | 4.33 | A |
| 1958.59 | 8 mx | 4.35 | A |
|  | 6000x |  | $\wedge^{\circ}$ |
| SIMCA CPE. DE VILLE . 1958.59 | 300 X | 4.35 | $A^{\circ}$ |
| SUNEEAM TAPIER | 301 x |  | 8 |
| 1955-59 | $600 \times$ | 4.35 | A* |
| fanaus | VWAB | $4.35{ }^{*}$ | $A^{\circ}$ |
| 1959 |  |  |  |
| TAIUMPH (ALI) | 301 x |  | . |
| 1955-59 | $600 \times$ | 4.35 | d |
| VAUXHALL | 301 x | 4.35 | $\lambda$ |
| 1958.59 | $600 \times$ | 4.35 | A |
| VOLKSWAGEN | 406 | 1.50 | $\lambda$ |
| 1252.57 | 8 m | 4.35 | A |
| VOLKSWAGEN | 406 | 1.50 | $A^{-}$ |
| 1958.59 | 8 m | 4.35 | A |
|  | YWA |  | A |
| VOLKSWAGEN GNIA | 406 | 1.56 | ${ }^{+}$ |
| 1855.59 | YWAE |  | A |
| VOLXSWAGEN EUS | 406 | 1.50 | A |
| 1955.59 | 8 M | 4.33 | $A^{\circ}$ |
| volvo | 406 | 4.35 | $\lambda$ |
| 1957.59 | 8 m | 4.35 | A |

TERADO D.C. TO A.C. CONVERTERS


These ore smoll, convenient power unils used for converting 6 or 12 volts D.C. to 110 A.C. for operoting electricol opplionces thot work on 110 A.C. only. Unils ore equipped with clgopette lighter plug.in, or direct connection to cor boltery in the cose of the lorger wattage converters. Choice depends on moximum lood of equipment mixers and blenders, etc. Special "hosh-free" filtering in oll units, except 50103 for outo shover.

| STOCK NO. | INPUT DC VOLTS | WATTS |  | S12E |
| :---: | :---: | :---: | :---: | :---: |
|  |  | CONTIN. | INTERM. |  |
| 50102 | 6 | 10 | 15 | 2×3×4** |
| 50103 | 12 | 15 | 20 | $2 \times 3 \times 4 "$ |
| 50115 | 6 | 35 | 40 | $21 / 2 \times 21 / 2 \times 41 /{ }^{1 / 2}$ |
| 50116 | 12 | 40 | 50 | $21 / 2{ }^{1 / 2} \times 41 / 2^{\prime \prime}$ |
| 50126 | 6 | 60 | 75 | $4 \times 5 \times 6^{\prime \prime}$ |
| 50127 | 12 | 75 | 100 | $4 \times 5 \times 6^{\prime \prime}$ |
| 50137 | 6 | 75 | 100 | $\pm \times 5 \times 6^{\prime \prime}$ |
| 50138 | 12 | 100 | 125 | $4 \times 5 \times 6^{\prime \prime}$ |
| 50134 | 12 | 85 | 110 | $4 \times 5 \times 6^{\prime \prime}$ |
| 50153* | 12 | 175 | 200 | $5 \times 5 \times 11^{\prime \prime}$ |


| WT. |  |
| :---: | ---: |
| LBS. | NET |
| 2 | 8.46 |
| 2 | 8.46 |
| 3 | 14.34 |
| 3 | 14.34 |
| 8 | 30.67 |
| 8 | 30.67 |
| $91 / 2$ | 42.43 |
| $91 / 2$ | 42.43 |
| 9 | 35.90 |
| 22 | 65.30 |

## SUPER CHARGER

A ten ompere loper chorger, for or 12 volt botteries. Chorges 12 chorge indicolor meler, $8^{\circ}$ heovy duty AC cord, overlood circuit breoker. Connects directly to botiery, or plugs into cigorette lighter socket. Size $3 \times 5 \times 6^{\prime \prime}$. Shpg. wh., $71 / 2 \mathrm{lbs}$.

Model 50181

## NEW TERADO BATTERY CHARGERS HI-POWER CHARGER

## A five ompere toper chorger, to chorge 2.12 volt bolleries

 overnight. Full wave circuir contains 2 silicon rectifiers. In. cludes chorge indicator light $8^{\circ}$ AC cord. No instollotion plugs into cigoretle lighter socket. Size $21 . \times 21 / 2 \times 4 \mathrm{~K}^{2}$ Model 50180Net 13.03
MITYMITE BATTERY CHARGER
Keap your battery of peok power; prevent bottery destruction caused by infrequent use or over use. Sate 3/ Amp charging cate automatically culs off when battery is fully charged. Oprerotes on regulor household eurrent. For 6 or 12 Volf bot. teries. Trouble light indicotes proper connection to bollery. Will olso rechorge run.down bolleries. Guoronteed for one
 MS-720 List 9.95

## CORNELL-DUBILIER CONVERTERS



A handy device that enobles you to use most of your electricol conveniences away from lloV. AC sources. Uses cor or boot bottery or plogging info cigoretfe lighter ouflet or line direct io or 110 V sourse to 110 V . AC, at power ratiags (WATTS) given below. Suitable for shovers, rodios, TV sets, smoll power given below. Suitable for shover
tools; contains noise suppressor.

|  | USES | DC | WATTS |  | WT. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MODE 4 | VIAR. NO. | INPUT | INTER. | CONT. | 512 E | 185. | NET |
| 65 P 2 | 2529 | 6 | 25 | 20 | 21/2 $\times 37 / 32 \times 2 \%$ " | 3 | 7.88 |
| $125 P 2$ | 2530 | 12 | 30 | 25 | $21 / 2 \times 37 / 32 \times 24{ }^{\prime \prime}$ | 3 | 7.88 |
| 110tms | 2533 | 110 | 70 | 60 | $3 \times 413 / 16 \times 31 / 21$ | 5 | 16.76 |
| 110 my | 2505 | 110 | 90 | 70 | $315 / 16 \times 55 / 16 \times 4 \%{ }^{\prime \prime}$ | 7 | 26.17 |
| 110410 | $110 \mathrm{VB6}$ | 110 | 150 | 100 | 6\% $1 / 8 \times 5 \frac{1 / 2}{}$ | 14 | 33.81 |
| 110515 | 110 VBSH | 110 | 200 | 150 | 6\% $\times$. $\times 5 \%$ " | 16 | 42.33 |
| $110 \mathrm{H25}$ | $110 \mathrm{VB6H}$ | 110 | 325 | 250 | $71 / 2 \times 11 \times 61 / 3^{\prime \prime}$ | 22 | 52.63 |
| 110 H 35 | 110 VCSH | 110 | 450 | 350 | $71 / 2 \times 11 \times 61 /{ }^{\prime \prime}$ | 22 | 79.38 |
| $1105 \mathrm{H4O}$ | 110 VCSH | 110 | 600 | 400 | $91 / 2 \times 13 \times 8^{\prime \prime}$ | 37 | 99.96 |
| 121m4 | 2530 | 12 | 50 | 40 | $3 \times 413 / 16 \times 3 \%$ " | 5 | 14.08 |
| 1218 | 2563 | 12 | 100 | 80 | 6\% $1.8 \times 5 \%^{\prime \prime}$ | 13 | 26.43 |
| 12 H 15 | 12 VD 6 | 12 | 175 | 150 | $71 / 2 \times 11 \times 61 / 3^{\prime \prime}$ | 22 | 58.51 |
| 32H18 | 32v86 | 32 | 200 | 180 | $71 / 2 \times 11 \times 61 / 3$ | 22 | 69.38 |



## CORNELL-DUBILIER SELF-CONTAINED AC POWER SOURCE

A completely portoble and self-contoined source of $110 \mathrm{~V}, 60$ cycle AC power for operoling such equipment os smoll IV sets, record ployers, etc. not requiring over 140 Watts continuous power, or 175 wolts intermiltenlly. Hos own 12 V . bollery, heovy duty vibrotorinverter and chorger for chorging bollery from $110 V$. A.C. source or bottery. D.C. source. Heovy clomps ond leods provided for connecting 25 lbs,
MODE


## 555 CARDIOID DYNAMIC MIKE

Sturdy dynomic mike. withstands shack, high heal and humidity. Cordioid pickup pottorn aftenuates noise and reduces feedbock, 35.50 ohm, 150.250 ohm or hi- 2 out. puf. Response: $50.15,000 \mathrm{cps}$, oulpul is -60 db . Swivel mounted case, with trandard $\% 0^{\prime \prime}-27$ threod maunt and 20 ft . coble. Size: $3 \mathrm{~s} / \mathrm{s}^{\prime \prime}=23 / 16^{\circ \prime \prime}=31 / 16^{\prime \prime}$. Shpg. wi., $4 \mathrm{~V}, \mathrm{lbe}$
M. 100

Not 48.80
5565 Speciofly constructed delure version of obove. Gwaranteed respanse $\pm 2 \mathrm{~V}$ db from 40 to 15.000 cps . Mos special rubber mounting to reduce vibration pictup. M. 101

Net 79.38
333 UNIDIRECTIONAL RIBBON MIKE
A prafersianal ribbon microphane for the most exacting user. Gwaranteed response $\pm 21 / 2 \mathrm{db}, 30.15,000 \mathrm{cps}$. Voice. Music twitch provider flot response for music, or o specially shaped response curve for volce. Uliro-cardioid paltern greally reduces bockground nolse. Output impedonces of 50,150 or 250 ohms. -60 db iensitivity. Special rubber mounting reduces vibralion pickup. Non.reflecting branze finish, 20 foot delochoble coble. Size: 3 9/16" a $1 \%$ " = $1 \mathrm{Km} \mathrm{m}^{\prime \prime}$. Shpg. wt., 4 lbs .
M. 102

Nol 147.00
130 Simflar to obove, but less Voice-Music switch. Sotin. chrome finish
M- 103
Not 70.56


300 BI-DIRECTIONAL RIBBON MIKE A rugged high fidelity mike for professionals and amo teurs. Response $\pm 21 / 3 \mathrm{db}, 40.15,000 \mathrm{cps} .20 \mathrm{db}$ lawer pickup from sides thon from front or rear. law, medium, Music swith Oufout level, -57 db Brante finish itond ard 4" - 27 threoted amivel thot Sizes $6^{\prime \prime}, 17 / 16^{\prime \prime}=13 / 32^{\circ}$. Shog.wi.. 3\%/4bs. M. 2.31 .............. 8 et 80
315 Econamy version of above. less Voice.Muslc switch and rubber shock mount. Rerponie: $50.12,000 \mathrm{cps}$ M-110

Net 52.63

## 737A CRYSTAL CARDIOID

A high output, high impedance eryital micraphone. Cordf. oid pattern affenvates bockground noise. Moisture proof seoi prorecri cryit db output 5 atin direchonol pickup. 60-10,000 $\mathrm{cDI},-54$
 Shpe. wh., 2 K Ibs.
M-111
Net 27.05

## 535 "SLENDYNE" DYNAMIC

A moderately priced, all-directional dynamic micraphane.
-61 db output at either 50.250 ahms or hf. 2. Response -61 db output at either 50.250 ahms or hi.2. Response
$60.13,500$ cps. Complete with On.Off switch and A25 swivel odapler. Satinechrome finish. $7 y_{4}{ }^{*}$ long, $\left.\right|^{\prime \prime}$ die. Shpe. wi., 3 lbs
M. 112

Nel 42.63


51


777 "SLIM-X" CRYSTAL MIKE A imoll unit weighing onty 6 ounces, this is the ideal microphone for hand-held ute. $60.10,000 \mathrm{cps},-62 \mathrm{db}$ output into high impedonce. Includes lavalier cord, stand adapter, 7 tt. remavable shislded cable. Satin chrame finish. $4 h^{\prime \prime}$ lang. $I^{\prime \prime}$ dio. Shpg. wt., $11 / 4$ lbs.

## M. 120

Ne 14.70
777 Some at obave, but hat odded On.OH Switch.
M-121
Net 15.8 e

## S38 DESK STAND

M. 122 For models 777 and 7775 . $11 / 4$ lbe.Nel 265

## A25 SWIVEL ADAPTER

For modols $525,535,777$, 777 s . For wio with slondord flaor or dest slond. Shpg. wr. 8 ore. M- 123

Nol 1.23

## 51 "SONODYNE" <br> DYNAMIC MICROPHONE

The ideal maderately priced microphone for public oddress and recording. Semi.directional dynamic eloment is im . mune to heof and humidity. Responte $60-10,000 \mathrm{cps}$. Screwdriver adjustmont for law, medium. or high imped. once output. $\mathbf{- 5 2}$ db output level. Swivel maunt and stondard $\mathrm{H}^{\text {n }}-27$ inreod. Solin chrome finish. is ft . cable and connector. Shps - Wh., 3K lbe.
M. 124

Not 29.11


## 707A CRYSTAL MIKE

Low cost crystal mícrophone for amoteur rodia, lape recording, and sublic oddress. Respanse $30-7000 \mathrm{cp1}$. Mi-2, autaut -50 db. 7 ft . cable, \%" -27 ihread. Size $3 \%{ }^{\prime \prime}$

M-104
Not 11.47
520 Magnetic vertion of above, immune io hat weather. Respante: 100.9000 cps, output -52.5 db .
m. 105

Net 13.23
520SL "DISPATCHER" MAGNETIC
The ideot mike for buty radio operators ar for dispatching and poging. Consists of Model 520 mike mounted on sposial stond. Push lorge bar to talk, slide down for permo. nent connoction. Eary 10 oparate. Chrome and green filish. 7 ff. Cable. $\mathrm{P}_{1 / 2}{ }^{\prime \prime}$ high, $5^{\prime \prime}$ wide, $7^{\prime \prime}$ deep. Shpe. $w+$., 3 lbs .
M-106 Not 25.46

## 5058 "RANGER" MIKE

Rugged handheld magnetic mite for outdoor PA or for mobsle radia. 200.8000 cpt . -50 db outpul level. Wilh DPST "Push. 10. rolk" swifh. 150.250 ohm impedonce.
 11/4 1bi. M-107

Not 18.82 m-108 High impedance version of above. Not 18.82
505T TRANSISTORIZED "RANGER" magnetic mierophone complete with built in Iransibtor am. plifitior. Directily reploces o corban mike. Responie 200. 4000 cpl . Output -1 db inlo 500 ohm lood. Push-to-tolk "witch, 5 foot coiled coble. $3 \%=2 \% " \approx 21 / 32^{\prime \prime}$. Shpe. $-1 .$. i $1 \%$ lbs.
M-109


715 "STARLITE" CRYSTAL
Semi-directional unit for home recording and inexpensive P.A. Syitems. $50-10,000 \mathrm{cpI},-50 \mathrm{db}$ output inta high impedonce. Cole is durable polystyrene with built-in retraclable stand and 5 H . shiolded cable. $3 \%^{\prime \prime}=2 \%^{7}=$ 1 $1 /{ }^{\prime \prime}$. Shpe. wi., $1 / h$ Ibs

## M-113

215 "STARLITE" CERAMIC
Coramic version identical with Madel 715, encept: 50 Coromic version identical with Madel 715 , ercept: 50 .
8000 cDs response, -56.5 db sentitivity. Inkemitive to 8000 CDs retponse, -56.5 db sensifivitr. Inempitive to M-114

## 7105 "REX" CRYSTAL

 A crrstal mite for amateur and PA use. 60.9000 epl , 50 itond outapter, 7 it coble. Burgundy red cose, $3 \%^{\sim}$.
M-11s
710A Same as above, but loss switch
Net 8.23
M-116
Net 7.06
SIOS "HERCULE5" MAGNETIC
Magnatic version of Model 710 S . $100-7000 \mathrm{cpl}, \mathbf{5 2 . 5 \mathrm { db }}$ output, metalitic green finish. Shpe. wh., Ih lbs.
M. 117

510 C
Nol 10.00

## S36A DESK MOUNT

Similar in oppearance to base of 5205 L . Fits all Shure connector type microphones. Adaptor provided for other Mroes Shps. Wt., I I/ lbs

Not 3.82


MCII 1" MINIATURE MIKE Specially designed for miniolure and transistorized equip. ment. Magnetic, 1000 ohm impedance, $4003000 \mathrm{cps},-71$ db output. Circulor cose with erelet colder terminols Codminm plated cate. $1^{\text {n }}$ dia. \%" ihick. Shpg. W1., 120 ot. M. 125 Nel 7.35

## MC2O $1^{\prime \prime}$ MINIATURE MIKE

Similar to MC11, but rectangular. $400-4500 \mathrm{CDS},-75 \mathrm{db}$ output into 1100 ohm impedance. \$" mide. 1" lons, $5 / 1 s^{\prime \prime}$ thick, $11 / \mathrm{m}^{-1}$ long loods. Metal sated. Shig. W1. 12 oz . M. 126

## R5 REPLACEMENT CARTRIDGE

 Magnetic replocemont cortridge for Models 510 C , 510 MO .$5105,520,5205 \mathrm{Si}$ and 505 C . Shpa wh., 402. M-127

Not 6.47
Q 7 REPLACEMENT CARTRIOGE
Cryatol replocement cortridge for Models 707A and 708A. -48 db output. Shog. wt. 5 oz .
M-12:
Not 4.85
A86A LINE TRANSFORMER
High quality reansformer for connecting low impedance miker 10 high impedance amplifiots. 15-50 ohm or 150. 250 ohm inpur, Mi-Z output. Preserver high frequenciae and euts hum pickup in lang lines. $20-20,000 \mathrm{cps} \pm 1 \mathrm{db}$. 1 k " lang. $\mathrm{K}^{2}$ dia.. 2 ff . of cable. Shpe. wt., 2 lbs . M. 119 Not 10.29

CISC RETRACTING MICROPHONE CABLE Rubber covered cailed cord for 5051 and ather carbon mikes. \& canductors for mike and press-to-talk iwitch. stretcher from 1 fool to ofoet. $5 \mathrm{hpg} . \mathrm{wt} ., 11 / 2 \mathrm{lbs}$ M. 130

Not 3.67
Page 239

## MICROPHONSS 7 ine Zuality At History Making Prices!



Lolayette matos mistory with high quality cirystat Mreionione at price thet is dx lean than eny com. parable Crydal Mieraphone on the martet todey. G. cellent for PA sytems, home recorders and generel op-
 pot evelh amplifiers. Ures quelity moisture wor wit with Die cest case in rich ereen beted ensmel fied crvitel: ctorom crill. Complotely sauipped elih is fiet of shielded cobie. Mith mey be ueed on eny stend with
 4/h". Shp. Wi. 3/h los.
PA-24-In lohs of 3, each

## STUDIO CRYSTAL MICROPHONE

- dual crystal carTRIOGES
- all directional
- FINE QUALITY - HIGH OUTPUT

5.75

Here is a microphone with o $360^{\circ}$ plekup, and the odded power and sensitivily of two individ. waily shack mounted ond phosed eryital corrridgos. This errangement assures you of maximum pickup from all sides. Swivol mounted to give fuller floxibillty. Cose is chrome ploted. Stondard $3 /{ }^{n \prime \prime}-27$ throod. Overall size $7^{n \prime \prime} H_{x}$ $3^{3 \prime}$ W complete with 4 H . coble. Shpg. wt. 4 PA. 17 $\qquad$ Not 5.75


Simoly, eech. QUALITY CRYSTAL

MIKE

## a Lafayette SCOOP!

### 2.95

A now, aftrectively styied ciystol micraphone for all general applicalions such as public oddress ond home recording-ot a history making law pricel Frequency response $\mathbf{3 0 - 1 0 , 0 0 0}$ cycles. Output level- 52 db . Titting heod, aftroctive plostic cose. Con be used on any stend with $y^{\prime \prime} .27$ threod. Completely equlpped with 5 ft . plastic covered shielded coble. Grill diem. $21 / 4^{\circ}$, depth $31 /{ }^{*}$, heloht $4^{\circ \prime}$ shog we 2 lbs. One of the best buys the countryl PA
lochinse ond on omni-directionol polar pattern, suith-in locking lype on-off slide switsh. Microphane Is only $5^{2}$ mar. dia. Shpe. Wh., 2 lbs
PA-45-Mierophane Complete with Stand....Net 3.95

## NEW "DYNA-SLIM" <br> MICROPHONE <br> 

- MIGH IMPEDANCR - 50,000 OHMS
- ON-OFF SWITCH
- "QUICK-SUIP" ADAPTER


### 6.95

Now dynamic, high autput microphone with all the features of "mites" cositing 3 times Lefoyette"s pricel Output level - 55 db Smooth response from 60 to 10,000 cycles Omnidirectional head. Externol on-of wink. Stips on or off stand adopter in a wink. Stondord $\%{ }^{\prime \prime}-27$ odapter permits Jiring mike for mulfi-ongle use. Satin black and chrome finish. Complete with detachable cable and connector. $8^{=}$long, $1 y_{1 / \prime}^{\prime \prime}$ mox. dio. Lapered barrel $7^{\circ}$. Shpe. w., 2 lbs.

P4-43
Net 6.95


NEWI CRYSTAL MICROPHONE MICROPHONE
WITH BUILTIN VOLUME IN VOLUME
CONTROL

sitm eryial microphone for dest top or hond-held us that is uniquely designed for universal opplication, smortly styled and oftractively finished. Chonges in tempera ure and humidity do not offext its efficiency, nor doen increasing the cable length inerease nolse or change tre quency chorecteristice. Ingenious swivel mounting per mish horizontal and verticel rotation for most convenien angle of use. Miefophone easily removed from bose for olding in hand Micraphone base, arill and all fittines chrom finished Mos wide range moath frequency VOLUME CONTRO

### 3.95

- SAVE STEPS AND EXTMA PERSONNEL BY LOCALIV CONTROLISNG THE VOLUME OF A REMOTE AMPLEFER
- EASIT REPACEABLE CA TRTBGE AND VOLUME CONTROL

A high quality erystal mierophone for use with P.A. syitems rocorders and other oppilicotlons. Permits fingertio contiol af the volume of a remotely lacated amplifier. This is o full size otfroctive unit with real eye appeal to complement its excellent performance-ond at about one-third of the price of comparable micrephones. The microphone has o frequency response of $30.10,000$ cyeles and autput level of 52 db. Comes wlith 5 th . shialded cable. Mos $3 / 1-27$ thread fitting for mike stond. Mond some block high-impact resisionce plastic case with chromed grill. Size $21 / 2^{\prime \prime} \mathrm{H} \times 4^{\prime \prime} \mathrm{O} \times 2 \frac{1}{4^{\prime \prime}}$ grill diam. eter. 5 hpg . wh., 2 lbs.
PA-44-Mierophone.


NEW! STUDIO DYNAMIC MICROPHONE IDEAL FOR HOME, OFFICE OR BROADCASTING STUDIO USE 11.95

- friquency response 50-11,000 cps. - HIGH IMPEDANCE 50,000 OHMS - high outpur

A revelation in microphone volue, this high quality omni directionol dynomic microphone provides features found in microphones selling for mony fimes the price. Employing - unique swirl ridged oluminum diophrogm completely sealed and gasteted against high humidity and temperafure cendltions, the PA proves itsell Ideal for a wide vori. ely of applicatians, such os tape recording, shutch, sharai troups and theatricol use. The $360^{\circ}$ stirruped shoped bracket provides for mounting with ony 4 " -27 threod floor, desk stond or boom mount. Finished in an attrective gunmetal grey the microphone is supplied with $4 h^{\prime}$ shlelded coble. Shpg. wi., I ib.
PA-49 STUDIO DYNAMIC MICROPHONE
Net 11.95

## NEW! CRYSTAL THROAT MICROPHONE

- HIGH SENSITIVITY-HIGH OUTPUT - FOR USE WITH ANY AMPLIFIER OR TRANSMITTER WITH CRTSAL MIKE INPUT IDEAL FOR AIRGRAFT AMATEUR, INDUSTRIAL AUCTIONS, PITCHMEN, CARNIVALS, SALESMEN - COMPLETE WITH NECKSTRAP-UEAYES HANDS PREE
A errital threat mierophon with o myriod of usesl ifs high senslitivity and high ontput permifs lis use with any stendard high impedance eryital microphone input. Its relatively wide frequency range provides o high degree of intelligibility for volice in public oddress or communicotions work. Requires no speciol pewer supply os do corbon-rype throal mikes. Complese with flexible neckbond and flexible $51 / 2$ cable (less connector). Shpe. wi.e $1 / 2 \mathrm{lb}$.
PA-14.
Net 1.95


## GUITAR MICROPHONE

# LOW MAGNETIC <br>  <br> TYPE <br> ALNICO <br> V MAGNET <br> 7.95 

Complefe with Individuel
FOR GUTTAR
Volume Controls

## WITH F HOLES

High impedance contact type micraphone specially deaigned for use with gultar. Eosily mounted under strings without special atfechments. Separate variable fone and volume controls permil wide odjustment to suli personal requirements. While in mounted position, mierophone unit can be roised or lawered eosily on rod to creat varying fonal offects. Supplied with 8 ft . ceble and offached standord site phone Dlug for connection to emplifier. Shpe. Wi. $21 / 2 \mathrm{lbs}$.
PA-38-Gultar Microphane.
Net 7.95

# MICROPHONES Save from $\mathbf{5 0 \%}$ to $\mathbf{7 5 \%}$ !!! 



## ARGONNE ALL-PUWPOSE DYNAMIC MICROPHONE

- OUAL IMPEDANCE- 250 \& 50,000 OMMS
- USABLE RESPONSE 50-18,000 CPS


## - for hand-helo, desk Or floor stand use

- iocal for tape recording PAGING, COMMUNICATIONS Hore is a floxible dynamic microphone with charoctoristics suitable for olmort ony opplication. Ruggodiv constivucled, with topered cort.metol bedy and remoroble base tor dosk use. Mounts boll foint and fitted with on odoptor for stondard $\%$ "-27 Hoor slond. SPECIFICATIONS: FRE OUENCY RESPONSE-Procticatly Hol 80-10,000 ${ }^{\text {CPI }} 3 \pm 5 \mathrm{db} 70.13,000 \mathrm{cos}$. OUTPUT- 70 db below I volt/micrabar at 1,000 cps. DUAL IM. PEDANCE: Low ( 250 ohms), High ( 150,000 ohms) unbalonead. Size ${ }^{\circ "}$ high (with bore), $2^{2 "}$ diom at heod, loparing down to $1 / 4$-. Base dlam. 4 $13 / 16^{\circ}$, $11 / 4=$ high. Shpg. wi., 6 lbs . AR-3-Oynamic microphone, complote


- May be hand-held, stand mounied or suspended by lavalier cordl
- Frequency 60-10,000 CPS
- On-ON Switch

A rromondous yolual Unique derign.
 plote with owival odapter 10 ht all stondord mite stonds. becter thich leaves bork cord ond broctar hich hover bork honds free. 5 mooth tide ronge re
 consactor. Shoe.w1 2 tb
PA-31
Singly Eoch
3.95

## LAPEL <br> MICROPHONE

- Full - 55 db . OUTPUT LEVEL! IDEAL GENERAL PURPOSE MIKE


### 1.95

Ideal general purpese mike. Specially engineered crystal Microphone. Alfoches to lopel. Only $1 \%$ " In diamefot. Esceplionel freauency respanse. Output level -55 db . Chrome ploted cose and clip for ottaching to lapal. Includes 5 ft . of shielded coble. Shpe. w. 1 tb.
PA.9


HARMONICA CONTACT MICROPHONE
This is ofine quality. sensi. ive, crystel contost microphone with a high output that Is especiolly designed to fit hormonicas. When the reladively weok sound of a hermonice is omplifled, the results or astonishing. The micrephoee connected to ony P. A. srstom, the aud a section of a phonagroph, or radio. Installation is Iimpla. The micraphane brocket slips under the icrew on the bass end of the harmonica and the loads connect to the amplifies systom. "It is sturdily built ond measures only $1 \%{ }^{\prime \prime} \mathrm{L} \times 5{ }^{*} \mathrm{~W} \times 1 / \mathrm{m}^{\circ} \mathrm{D}$. Complete with 7 ft shielded coble. Shpo. wt., 12 ots. PA-35
1.49

NEW DYNAMIC MICROPHONE


Reg. Value 29.50 NOWI only 6.95 - HIGH IMPEDANCE- 50,000 OHMS - RESPONSE-40-9,500 cps

Boautifully designed and attroctivaly finished high im. pedonce, Naht weight dynomic microphone with swivel mount that permits horisentol and verticol rototion for most conventent angle. Microphone quickly and eoslly roleased from foll-lined base clamp for holding in hand or fin clamping 10 neck bond for uso as lavalier mikraphone. Baked enomel case with chrome finished base, grille ond fittings. Rugoedly constructed to withstand plontr of handling. $3^{\text {" }}$ long $\times 11 / 4^{\prime \prime}$ diam. hausing with 5 ft . shiolded coble.
PA.4s Shipping wt., 2 lbs ................................. 6.95

## CRYSTAL

 MICROPHONE CARTRIDGE- REPLACEMENT FOR ASTATIC SHURE, ANO MANY OTHER POPULAR MICROPHONES
singly. heavy featble rubber euthloned rim designed for speedy. cconomical repelif. Fite tens of thoumands of the most populor microption ot
- 4 such as the astatic 3130 otc, Overall diameter




## NEW

 CONTACT MICROPHONEEaslly Atfaches to All String Instruments Thls law priced, high quality conlact microphone of ideal stringad instrumants such as gultars, banjos, mandotins callas, ukeleles etc. Provides rich, natural reproduction of the octual tane with sufficient ampllfication to be heard in o large holl. The clamp bar on the mile slides direetly under the sounding board cutout to give a secure fit Comes equipped with 8 f . cable for connection to public
address ampllfiers, tope recorders or rodios. Freauency address ampllfiers, tope recorders or rodias. Frequency
response $40-9,000 \mathrm{cps}$. High impedonce. Size: $11 / \mathrm{m}^{\mathrm{L}} \mathrm{L}$. response 40.9 .000 cps . High impedonce. Size: $11 / 2^{\prime \prime} \mathrm{L}$. $15 / 16^{\circ}$ W. $5 / 16^{\circ}$ D. Shpg. Wl., 12 ozs.

## SLIM DYNAMIC MICROPHONE

## - dUAL IMPEDANCE

## \$0,000

AND 250 OHMS

- high output
- 50-11,000 CrCLES - USE ON STAND OR A5 HAND MIKE
The latest design in slim troe micrephones. A high-output dynamic mite of exceptional quality. Hos very smooth response from $50.11,000$ ey. choice of either Migh impedance 150. 000 ohms) or low impedance 1250
 ohms). Omnl-directional tiltable head. Brocket hos stond ord $3 / /^{\prime \prime}-27$-ithread for use on stand. This brocket is instonily remevable so mike can be hendheld. Has cost cose with satin-chrome finish ond ocoustleally correct grllie heod. Ruggedly constructed. Siren $B^{\prime \prime}$ long. $11 /{ }^{\prime \prime}$ diam, barrel. Shpg. wl., 2 tbs.
PA-29 ..........In loti of 3. Each 9.25
Single, Each
9.95


## $\left(\begin{array}{l}\because \\ \because \\ 3 \\ 3\end{array}\right)$ <br> 148 <br> MINIATURE <br> CRYSTAL <br> MICROPHONE

Here's a typical Lafayette apecial for the experimenter, student or dealer. An extremely sensi ing aids and atber small apparatus. Can be used as lapel mike-miniature tranwmitter mike-for concealed locations, etc. Its size and performance Gives it joint veratility. Brand new. Size only money. Shpg. wh., 6 ofs. imported to save you MS-108


Eatremely sensitive and smoll rectangular micra. phone for canceoled lacations, heoring oids, and other minioture equlpment. A/so suitable or o lopel or minioture transmitfer mile. Enperimenters, sfudents and hobbyists will find many oppli cations for this uselul. low cost ilem polted by Lofoyetle to iove you money.
408.

PA. 40
Net 1.49

## ElectroZoics QUALITY MICROPHONES




## New! Model 652 "Thin Trim" Dynamic Microphone

A unique design for on olmost invisible dynomic mi crophone. The microphone is mounted on the end of the semirigid tube bringing the moving coil element closer to the user for fult rence. Dop free response. Ideal to be used where the microphone should be inconspicuous. Two clear plastic beffles provide a 6 db or 3 db beost in the brillionce range for added orliculation. Has builtin wind filter. Respons uniform from 50 to $12,000 \mathrm{cpl}$ without the boffter. Output tevel- 10 db . Metches oll low Impedance. light tan, non reflecting finish. Complete with $20^{\circ}$ coble. cable connectar ond Madel 300 Stond coupler. length of microphane to coble conmector $25^{\prime \prime}$. Shpe. wh.. 1 lb. Supplied less stand. Net 70.36
m. 7.08 Down Model 652 A. Some as abave, except $15^{\prime \prime}$ long M-17 7 M2n. Some ds abave, except 15 long. 70.56 Model 653. Same as Model 652A excepl adiustable desk tond infegral port of mierophone. Shpe. wi.. $2 \%$ lbs.

## BROADCAST-TV-RECORDING MICROPHONES CARDIOID UNIDIRECTIONAL DYNAMICS

## 666 SUPER CARDIOID DYNAMIC

New variable "D" microphane for exacting radio and TV braadcost applicatians. Cardioid poftern extra shorp for high affenuation of sound from sides and rear; Guly sound from front of microphone is picked up. Con be used twice as far away from sound source as many other microphones. Frequency respanse is uniform from 30 to $16,000 \mathrm{cps}$. Output level - 55 db . output impedance as supplied is 50 ohms, but is easily chonged to 150 or 250 ohms. Acaust. olloy diophragm used for better performance. Cost Alu. minum cose is finished in non-reflecting gray. Complete with 20 ft . shielded coble ond Connon UA. 311 connector, and Model 300 detochable stond coupler for $1 / 2^{\prime \prime}$ and s/0"- 27 stonds. Shpg. wt., 2 lbs.
M- 10
15.00 Down

Net 149.94

## 666R RISING RESPONSE CARDIOID

Similar to 666, but has a 4 'h do boost from 100 to 2000 cps to reduce low-frequency room reverberation piciup. Reduce room "rumble" ond prop nolie. Oulput is $-50 \% \mathrm{db}$. Shog. wi., 2 lbs. .II 15.00 Down 6098 TRANSISTOR LINE AMPLIFIER

Con be used with ony EV low-impedence microphone to Mreare dynomic ronge ond lawer system noise. wh., itio. M-12

12 ..

667 VARIABLE RESPONSE CARDIOID
Fealures very wide, smooth frequency respanse from 35 to $16,000 \mathrm{cps}$ and efficient cardioid field pottern which discriminates against bockground noise and retains "pres. ence" even If sound source is for oway. Includes transistor preamplifier.remate conirgl unit for greater output and frequency contral llexiblity. Transistor remote control unit operotes up to 350 hours on small mercury boltery. Hos separate bass and hours on small mercury bollery. Has separale bass and tieble contrals, gain control and pres. ence swilch. Output level vorioble from - 30 to - 88 db , operates into 50,150 ar 250 ohm lood. Dynomic ronge is 120 db ; Nolse tevel, -123 dbm . Supplied with 20 ft . and 50 H . cobles, adopter for $1 / 2{ }^{\prime \prime}$ or $1 / /^{\prime \prime}-27$ sfonds, and hordwood corrying cose, Size: mike $71 / 2{ }^{*} \times 13 / 4^{\prime \prime}$ dio., preomp $9^{\prime \prime} \times 3 \% \%^{\prime \prime} 3 \%{ }^{\circ}$. Nen-reflecting gray case. M-19
35.28 Down ..................... Net 352.80

## MODEL 665 CARDIOID

Economy verilion of Model 666 Vorioble $:^{\circ} D{ }^{\prime}$ mike. 40. 15,000 cps, - 55 db cutput lebel, 50 or 250 ohm output impedonce, balanced line output. Swivel mounting, standord $3 /{ }^{\prime \prime}-27$ threod. Heary die cost case, non-reflecting gray finish. 18 ft .3 cenductor coble. $71 / 4^{\circ}$ long, $11 /{ }^{*}$ die. Shpg. wf., 2 lbs.
M- 20
Net 88.20

## OMNIDIRECTIONAL DYNAMIC MICROPHONES <br> 655-C "SLIM-TRIM" <br> 649-A MINIATURE LAVALIER

## TV DYNAMIC

This slender hond of stand mierophone covers the enitire audio ronge, from 40 to $\mathbf{2 0 , 0 0 0} \mathrm{cps}$. Omni-dlrectionol. Output levei - 55 db , impedance 50,150 or 250 ohms. light end smoll- $11 \%$. dio., $10 \%$ " long. Complete with light end smoll-1/8" dio., $10 \%$ long. Complete with odapter for $1 / 2$ and $1 / 4-27$ ston
shielded cable. Shps. wi., $11 / 2$ lbs.
M. 13
1.76 Down

Net 117.60

## 654 "SLIM-TRIM" STUDIO

Similar to obove, but for less crifical uses, $50-15,000 \mathrm{cps}$, -55 db output level. 50 or 250 ohm output. $s / s "-27$ threoded swivel mount, 18 ft . cable. $10^{\circ}$ long, $1^{\prime \prime}$ dio. Gray finish. Shpg. wi., $11 / 2$ lbs.

## M- 14

5.88 Down

New improved minioture microphone weighing only 2 oz. $33 / 4$ " long. $3 / 4^{*}$ dio. Very inconspicuous, ideol for audl. ence participation shows. $60.12,000 \mathrm{cPs},-80 \mathrm{db}$ oufpul level, non-directionol. low impedance. TV gray finish. Includes nech strap, belf clip, and 30 ft . coble. Shpg. wh., 1 b.

Net 61.74

## 646 LAVALIER DYNAMIC

Small dynamic milke for hond, stond or chest use with lavalier card supplied. $50-10,000$ cps, outpui level - 57 db, choice of 50,150 or 250 ohm: impedance. Omnidirectional. Gray finish, buitt-in connector. $7.1 / 15^{\circ} \times$ $1 \%$ dio. Shpg. wh., 1 ib
M-22
8. 67 Down ……............ Not 86.73

## ACCESSORIES

524 WIND SCAEEN. Used with 866 microphone. Mini. mizes wind effect. Shpg. wi., 2 oz.
M-23 ........................................... Net 4.70 366 SUSPENSION SHOCK MOUNT. For mounting Modell 666 or 667 on mike boom. Shpg. wi.. I ib. m-24


A cambinotion cardloid ond distributed front opening makes this the most directional micraphone ever. Hos better than 2.5 times the warkins distance of pressure rypes. Cancellation from the rear and sidet exceed 20 db giving virtually camplete rejection of unwanted sound. The effective frant acceptonce angle is $45^{2}$ ach side of center giving best isolotion of individual per formers. High reduction of wind noise and law sensitivity to shock. Smooth response from 40 to $12,000 \mathrm{cer}$, hish to shock. Smooth response from 40 to $12,000 \mathrm{cps}$, high output- 52 db , dual high ond low impedonce selective. $2.5 / 16^{\circ}$. length $16^{\prime \prime}$ cable is $18^{\circ \prime}$. Shpo Rear diometer $\mathbf{2 . 5} / 16^{\prime \prime}$. length $16^{\prime \prime}$ cable is $18^{\prime \prime}$. Shpg. Wh. is $3^{3}$ lbs.
$\mathbf{6 . 4 7}$ Down

## 664 VARIABLE "D" DYNAMIC MICROPHONE

New varioble "D" (voriable distonce) microphone devel. oped speciolly for PA work. This cordioid microphone provides a very high front-fo-bect signol rotio ta reduce noise echo and feedbach-coback ibnol rotio ta reduee noise, echo, ond feedbock problems. Blast filter and spe ciol construction permit close tolking withoul booming bass or distortion. Acoustalloy diophragm shielded agoinst dusp and magnetic porticles. Response $40.15,000 \mathrm{cps}$ output Icvel - 55 db . Outpul impedanco eosily changed from high impedonce to 150 ohms by changing connec tion af internol terminal board. Satin chrame finished cose, with $\mathrm{On}-\mathrm{Off}$ switch and removable 18 f . cable. $7.3 / 16^{\prime \prime}$ long, $11 /{ }^{\prime \prime}$ dic. Shpg. wf., 2 lbs.
M-26 ..................... 5.00 Down ....................... Net 49.98

## SPECIAL PURPOSE \& DIFFERENTIAL MICROPHONES

## 600-D DYNAMIC

Semi-directional, rugged microphone designed to snugly fit into hond. Output level - 55 dt . Prest to tolk switch $50 \mathrm{ohm}, 250 \mathrm{ohm}$ or hi- 2 impedonce (specify when order ingl. $2^{\prime} /^{\prime \prime} \times 2^{\prime \prime} \times 4^{\prime \prime}, 5 \mathrm{f}$. cable. Shpg. $w t ., 3 / 4 \mathrm{it}$. M-27
5.00 Down

Net 27.93

## 606 DIFFERENTIAL DYNAMIC

Nolse-cancelling mike for close tolking. $100-3000$ cps -55 db output, standard thread, chrome finish. 50 ohms , 250 ohms or Hi-Z (specify when orderingl. With 18 ft . coble. Shpg. wt., 2 lbs.
M-28 ................... 5.00 Down .......................Net 30.87

## 648 DVNAMIC

For paging, intercom or PA. Mounts on desk, floor stand or 448 boom (below). $50 \cdot 10,000$ cps. Output - 58 db Cholee of 50,150 , or 250 ohm impedance. Non-direc. tionsl, gray case, less cable. Shpg. wi.. i/h it.
M. 29
5.00 Down ……............... Net 32.99
448.-Swivel Boom mount for 648 mierophone. $12^{\prime \prime}$ long Shpg. wi., $11 / 2$ tb.
m. 30

## 635 BROADCAST DYNAMIC

Compact, rugged and versolile, omni-directional mike. Response $40-15,000 \mathrm{cps}$, Outpul level -55 db . Imped. ance selector for 30 or 250 ohms. Swiveled bose with $3 /{ }^{\prime \prime}-27$ thread, Cannon X6-3 connectar, 18 H . coble. $2^{\prime \prime}$ dia., $6 \%$ " lang. Shpg. wi.. $13 / 4$ lba.
M. 15

## POPULAR PRICED MICROPHONES Electro-Woics



## GENERAL PURPOSE OMNIDIRECTIONAL DYNAMIC MIKES

## 636 "SLMARR" DYNAMIC

 Slim omni-etrectional mlke for PA or recording. Acavatallay diaphrogm. Output level - 55 db . Response $60-$ $13,000 \mathrm{cps}$ Solection of $\mathrm{Hi}-2$ or 150 ohm Impedance made of plug. On. Off switchy sotin chrome finish. Swivols $90^{\circ}$ an base, tapped for $\%{ }^{-10}-27$ stand. With 18 H . cable and cannestor. $11 / 0^{\prime \prime}$ dia., 101/4" lang. Shpg. wt., 2 $1 / 2$ for. M-31 …................ 5.00 Down
## 630 HI-FI, HI-OUTPUT DYNAMIC

A quality ricraphane resistant to heat and humidity. 60 $11,000 \mathrm{cps}$, oufput tovel- 55 db . On. Oft iwitch, tiltable hood, chrome finish. 50 ohm, 250 ahm or $\mathrm{Mi}-\mathbf{2}$ autpul. $2^{\prime \prime}$ dio., by" lang. Shpg. wt., 3 lbs.
M-32.

## 647 PA LAVALIER DYNAMIC

Small, rugped mike camplate with neck cord and support clipi. $60 \cdot 10,000 \mathrm{cps}$, output levet - 57 dt . Either 150 chips or Mi-Z outpul (specily when ordering). Groy enamel
 m-33 $\qquad$
5.00 Down .................. Not 48.51

623 SLIM DYNAMIC MIKE
Ideal for PA, recording and eoneral use, on atand or in hand. Nan-directionol, $60 \cdot 12,000 \mathrm{cps}$, output level - 56 db. Odjustoble for high or low Impedance. Tiltable chrame heod, On. Off switch, te ". 27 thread, removable 18 f . coble. Shpe. wr., 2 lbs
m-38 .................. 5.00 Dawn $\qquad$
605 DURABLE DYNAMIC
Non-directionol, general purpose mike, 65.8000 cps. Output tovel - 55 db . Choice of 50 ohms, 250 ahms, or $\mathbf{N H}-2$. 18 ft . removabio cable, enrong


## M-39

Not 19.11

## 615 "CENTURY" DYNAMIC

Incomporable far paging, home recording, ar ony law cost applicotions. Con be used an stand or in hand. Nandirectional. Acoustolloy diaphrogm. Response $80-8000$ cps. Output -35 db . 50 ohms or $\mathrm{Hi}-2$. Lo-2 nol bolanced to graund. $5^{\circ}$ cable. Rugged, High weight. Prorsure cent case, sotin chrame. Sire: 3 =2-3/16 $=1$. AC-DC insuloted. Shpg. wf., I lb.

Net 14.99

## CRYSTAL AND CERAMIC MICROPHONES

## 951 VARIABLE "D" CRYSTAL

 An excelleal wide-ronge all-purpose mike for ellminating beckground noise and reverberation. Highly directional. Response $50.11,000 \mathrm{cps}$, output -s 0 db . Mi.2, On-Off switch. Solin chrome finish. Swivel bare with standard $1 /{ }^{\prime \prime}-27$ mownt and cable connector. 18 A . cable is mo m-34 .................... 5.00 Down ...en.............. Not 29.11

## 917 "MERCURY"' CRYSTAL

High outpet omnidirectional unit for general use. $50-1$
7000 cps , 7000 cps , aigh impedance, 50 db output level. On-Off

m-35

## 926 SLIM CRYSTAL

General purpose mike for stond mounting. Response 60. 8000 cps , output leval - 60 db . Hi.2. Chrame finished cesse, tiltaisle heod, standard thread. $63 / 4^{\prime \prime} \times 1.5 / 16^{\prime \prime}$, 18 ff . cable. Shpe. ut., $11 / 2 \mathrm{lbs}$.

Net 17.35

## 924 CRYSTAL LAVALIER

Omni-direstional crrstal lavalier for chest or hand use. supplied with neck cord and support clips. High impedance, 60.8000 cps, oulput level $-60 \mathrm{db} .3-5 / 32^{\circ}$ lang. 1.7/32" Gameter. Shpe. wt. 1 lb. m-37

## 712 Ceramic

Fifs nead of PA, home recarding, otc. Mandheld. Moisture soaled corsmic, Response 70.7000 cps . High outpur -55
 M-54

## AMPERITE "KONTAK" MIKES



SKH CONTACT MICROPHONE
Spocially designed far pictup from muitical instruments. Easily attachad to instrument without tools. High outour lovel of -40 do sulficient for both high and law goin amplifiers Response $40-9000 \mathrm{cps}$. Migh impedance. Mait. amplifiers lesponse $40-9000 \mathrm{cps}$. Migh impedance. Mait-
iure-proal rubber case. 15 fl , cable. Shpg. wt., 2 Ibs.

M-61. KKH-As above, with builitin volume cantral Kf FOOT YOU COMTEOI Net 10.58 shpo. wl., I lb.

## m-62

................................... 10.58
hhog staap-Aftochos mike to flat-iop gultors.
Mhos. m ., 4 ors.

Smart new mike with desk stand and floor stand caupler. Heat resislant ceramic element. $60-8000 \mathrm{cps}$, autput - 55 $\mathrm{db}, \mathrm{Hi} \cdot \mathrm{Z}, 5 \mathrm{f}$. coble, $8^{\prime \prime} \times 11 / \mathbf{2}^{\prime \prime} \times 11 / \mathrm{m}^{\prime \prime}$. Shpg. w1., $11 / 2$ lbs.
M-41 …...................................................... 10.58
7275-Same Model 727, but includes On.Off swifch
m-42

## 715 "CENTURY" CERAMIC

For hand, pable, or stand. $60-7000 \mathrm{cps}, \mathrm{Hi}-\mathrm{Z}$. -50 db . outpur. Gray Styran case. 5 ft . cable. Shpg. Wt., 1 lb.
M-43
Net 7.4
Model 7155. Some 715. but includen On.Off iwitch. M-44

Not $\mathrm{E}_{\mathrm{B}} 2$

## 718 CERAMIC

Improved replacement for home recorder milkes. 60-6000 cps, -55 db autput. H1.2. 5 ft . coble with phono plug and adapler plug. Shpg. Wf., I lb.
M-45

## 920 SPHEREX CRYSTAL

All-directional ervstol milde for thame use. Wire mesh head acts os wind screen and blast filter. $\mathbf{6 0 . 7 0 0 0} \mathrm{cps}$, output -50 db . Mi-2, satin finish, $3 / \mathbf{H}^{=} .27$ thread. 18 ff . cablo. Shpg. wr., I lb.
M-4.


## NEWI 729 CERAMIC CARDIOID

The Model 729 Is the loweit priced cordioid ever buift. Random naise, reverberotion and lewd bock possibility reduced by a foctor of $67 \%$. Frant pickup range near twice that of pressure microphones. Designed far public oddress, paging, amaleur radlo, home sfereo recording. and general communications. Oupput -55 db . Response 60 ta $8,000 \mathrm{cps}$. High impedance only. May be used in ony climate. Avallable with or without "on-off" switch. Metalustre gray fromt with medium groy bock. Supplied with oftractive desk stand ond floor stand. Shpg. wt., less coble and stend, 13 oz .
M-47 ............................................................................ 14.41 Model 729 S. Some as obove, but includes on aff switch


## STANDS AND ACCESSORIES

419 DESK STAND. Accammodoter Models 664, 665, and others. Grey. Shpe. wt., 3 lbs.
M-5
Ner 3.88
420 DESK STANO. Specifically for models 666, 655.C. 646, and other $1^{\prime \prime}$ dia. mikes. Groy. Shpe. wh. ${ }^{4}$ Ibs. 11.76 M-52
415 DESK STAND. For models 615 and 715. Shpg. wi.. 6 or.

Not 1.03
502A CABLE MATCHING TRANSFORMER, Maiches 50 250, or 500 la $\mathrm{Hi} . \mathrm{I}$ omplifier input. $\mathbf{4 0 - 2 0 , 0 0 0} \mathrm{cos}+$ 1 db . MC-4 connectors. $2^{\%} \times 2^{*}$ dla. Shpe. Wh.. 1 ib. M-49
418 DESK STAND. Desk stand far use with microphones having small type sfud, such as $611,623,630,635,636$, 911, 950. Grey finish. Shpe. wt., 4 lbs.
4-50
Net 5.8 B


## NEW! TURNER 250 TRIPLE-SWITCHING COMMUNICATION MICROPHONES

These mew microphones are dosigned for use in police diupotch. signed for use in police diapoich, ing intem, ond other communino shitem, ond oiher communi ingle unit die.cost construction with ehrome finish cansiruetion with chrome finish, plus the tri-ple-switching oction. Push-to-talk, slide-lock, and lift switch permit oreatest speed and cavanience in any dispatching or public address worth. Madel 250. Wired to aperate both mike and relay circuits al a rouch. Smooth respanse from 100 to $10,000 \mathrm{cps}$. Outpur lavel -54 db High impedance. Complete with 20 foot 3 -conductor ceble. Shpg. wt., 2 Ibs.
M-66 ……............. 5.00 Down ....................... Net 27.34 Model 251. Same as obove, but hos 150 ohms Impedonce and 20 foat 4 -canductar ceble. Shpg. wt., 2 lbs. M-6 256 cri........... 5.00 Down …............ Not 28.3 Madel 250. A crrwal version of 250 Oup lerel -5 do. Response 60 to 8000 cps. Complete with 20 foot 3 .
conductar coble. Shpg. wi., 2 lbs.
M-68 ..................... 5.00 Dawn

## MICROPHONES-SPEAKERS-AUDIO ACCESSORIES



ASTATIC MICROPHONES
788 "FIUTURA-METRO" DYNAMIC-WId range, $50.13,000$ cps, high or law impedance. Output - 55 db , Mylar diophragm. On-Off switch, swivel adapter with pedance. Output shpandard thread. Shpg. wt., $11 / 2$ lbs. standar
$M-145$
 output. High or low impedance. Black with chrome trim, swivel adapter with $5 / 0^{\sim}-27$ threod. Shpg. wt., $11 / 2 \mathrm{lbs}$
M. 146
6.47 Down

Net 64.68
988 "FUTURA-VOGUE'" DYNAMIC-Ultro-wide range, $40-20,000 \mathrm{cps}$. Output - 58 db, 50,150 , ar 250 ohm impedance. Black, gald trim, 20 ff . cable, iwivel adapter with standard $\% /{ }^{\prime \prime}-27$ threod. Shpg. wt. . $11 / 2$ lbs.

```
M-147
.8.82 Down
```

A8 DESK STAND-For "Futuro" series microphones Shpo $w t, 11 / 8$ Ibs. Nel 8.2.20 M-148
...Net 4.85
77 HI-FI DYNAMIC CARDIOID-30-15,000 cPs, output -52 db , On. Off switch, $90^{\circ}$ swivel for standord stands. Mylor diophragm. Shpg. wt., 3 lbs.
M-149
5.00 Down

Net 48.49
77L-Hecd port of Model 77. mounts on Astatic G-stand. Shpg. wt., 3 lbs
M- 150
5.00 Down

Net 42.63
G-77-Modet 77 L complote with Astatic G-stond. Shpg. wt., 7 lbs.
M-151
5.73 Down
Not 57.30

JT-30_-Popular crystal mike for home use. $30-10,000 \mathrm{cps}$, high output: - $50 \mathrm{db}, 10$ ff . cable and connector, standard thread, with desk stond. Shpg. wf., 3 lbs.
M-152
Net 10.82 54-M3—Versallie non-directional desk mike. $30 \cdot 10,000 \mathrm{cDs}$, output — 51 db , stondard threod, matching base included. Brown and gold. Shps. wt., 21/2 lbs.
M. 153

Net 10.55
M332-Low cost slim Hi-Fi erystal, wide range $30.15,000 \mathrm{sDs}$. Omni-directionot. - 37 db output, Hi-Z. Includes stand odopler, lavolier cord, and 8 f . cable. Chrome finish. $41 / 2^{*} \times 11 / 4{ }^{\prime \prime}$ dia. Shpg. Wh., 1 lb .
M-154
.Nef 10.53
M332S-As above, with On-Off switeh
M- 155
Net 11.70

## LAFAYETTE'S 25-WATT DRIVER UNIT

# Fits All Trumpets And Projectors 

10.79

$\$ 8.00$ Value

## Hermetically sealed weather proof driver unit.

 Delivers 25 wolts of power. Perfect for any location where high valume with low distorfion is desired. The PA. 57 will fll any trumfication. The wide-range freavency respanse of $120-7.100$ cps ossures excellent reproduction of 16 Ohm inde pendence motches all omplifiers. Sire $4^{\prime \prime}$ Diometer, $3-5 / 6^{*}$ depth. Shpg. wt., $32 / 4$ lbs. PA.57
## ASTATIC M-150 RECORDER MIKE 13.82 <br> - amazing performance at AN AMAZINGIY LOW PRICE <br> - IDEAL REPLACEMENT MIKE for TAPE RECORDERS

A new high quality erystol microphane especially engineered for recorder wse. Has a frequenty response of $30.10,000 \mathrm{cps}$ and on output level of -44 db . Housed in compact, lightweight,
 Comes with 5 ft . extro flexible, single conductor shielded cable. $2-3 / 16^{\prime \prime} \times 21 / 0$ M-156 (ASTATIC M-150) Shpg. wt. 1 lb .

Type $M$ is zine chromote undercooted and finished in fice white locquer. All others ore of aluminum with $1 / 2^{\prime \prime}$ mto. hange and finished in sotin. Typ RS yeplos for cesessed woll
 ing mtg . All require baffe enclosures, oxcept 8 l types, ond optional for type $M$.

| $\begin{aligned} & \text { sTOCK } \\ & \text { NO. } \end{aligned}$ | MPR. | FIG. | $\begin{aligned} & \text { FOR } \\ & \text { SPKR } \\ & \hline \end{aligned}$ | S12E | te5. | NET |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PE-130 | RS-6A | A | $6^{\prime \prime}$ | 10x7/16 | 1 | 2.94 |
| PE-131 | RS-8A | A | 8 " | 12\% $\times 1 / 7$ | 1 | 3.26 |
| PE-132 | 2512-A | A | 12" | 161/2x1/2 | 11/2 | 4.42 |
| PE. 133 | M8 | B | $8{ }^{\prime \prime}$ | 12x12x1/2 | $11 / 2$ | 4.07 |
| PE-134 | Al6-A | c | 6" | 101/2" Dia. | 11/2 | 4.41 |
| PE-135 | Al8.A | c | $8{ }^{\prime \prime}$ | 124\%" Dic. | 13/4 | 7.14 |
| PE-136 | All2-A | c | 12" | 16\%" Dio. | 31/2 | 9.00 |
| PE-137 | BL6.A | D | 6"' | 71/4×121/6 | 31/4 | 7.64 |
| PE-138 | $818 . A$ | D | $8{ }^{\prime \prime}$ | $81 / 6 \times 14 \frac{1 / 4}{}$ | 4 | 12.94 |
| PE.139 | BLI2-A | D | $12^{\prime \prime}$ | 9\% $4 \times 18 \%$ | 61/8 | 15.88 |

## SWITCHCRAFT "MINI-MIX" AUDIO MIXER

Miniolure 2-Inpul hi-impedance mike ond phono mixers. Seporole goin controls for mixing. Shielded hausing. Ideol tor use with tape recorders, musical instruments, phonogrophs, microphones. Size $2-1 / 6^{\prime *} \times 1-13 / 16^{\prime} \times 1.1 / 16^{\prime \prime}$. 320-Microphone connector inputs and oulputs. Net 4.67 310 _Phone jock inputs and phone plug output..Net 4.67 8266- Cable assembly with plug ond lock to use No. 310 where equipment iosk is recessed....Net 2.20 315 -Phone lock inpuls and mierophone connector outpus Net 4.67 325-for recorders or omps using Jones connectors including recessed type in Webcor Tape Recorders Nel 5.85


## LOWELL

## WALL \& CEILING BAFFLES

E. Profective Boffe Enclasures - Ceiling mounfing of boffles. CP for new constructions, XCP for existing ones. All have steel con, plostic ting and sufficient speoker back pressure. Shpg. wi.; CP6 and XCPG, $31 / 2 \mathrm{lbs}$ e och; CP8 and XCPB, $41 / 4 \mathrm{lbs}$. each; CPIOI 2 and XCP101 $2 ; 71 / 2 \mathrm{lbs}$. each.

| $\begin{aligned} & \text { sToc: } \\ & \text { NO. } \end{aligned}$ | MFR. TYPE | FOR |  | $\begin{aligned} & 12 E \\ & 0.0 . \end{aligned}$ | DEPTM | NEY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PE. 140 | CP6 | AL6A, RS6A | 7" | 114/" | 4 " | 4.28 |
| PE. 141 | CP8 | AL8A, RS8A | 812" | 13" | 41/2" | 5.29 |
| PE-142 | CP1012 | AL12A, RS12A | 1242 ${ }^{\prime \prime}$ | 171/9" | $7{ }^{\prime \prime}$ | 7.25 |
| PE. 143 | XCP6 | AL6A. RS6A |  | 7" | 4" | 3.77 |
| PE-144 | XCP8 | AL8A, RS8A | - | $8^{\prime \prime}$ | 41/4" | 4.73 |
| PE-145 | XCP1012 | AL12A, RS12A | - | 121/2" | 7" | 6.39 |



## LOWELL HI-LITES

LOWELL MODEL PBF.8 (FIG. A) Moke bockyard liv ing more enjoyoble with the lowell combination outdoor light and speoker boffle. Is goad oppearance will enhance any home. The waterproof speoker baffle has a $\mathrm{z}^{\prime \prime}$ Jute lining and accommodotes any $8^{\prime \prime \prime}$ speaker. The unwired lomplixture below the baffie will accept any lomp. All finishod in a black anodized weather resistant finish. Requires $2^{\prime \prime}$ pipe for mounting. $181 / 2^{\prime \prime}$ high $\times 14^{\prime} /^{\prime \prime}$ dio. Less pipe, speaker and bulb. Shpg. wt., 10 lbi. PE. 146 5.00 Down ...................... 36.75

LOWELL MODEL PBW (FIG. Some os above, but in gostight ero enclosure, ond with woll brocket. 20 high $\times 11^{\prime \prime}$ deep. Shpg. wt., 14 lbs.
PE-147 deep. Shpg. 5.00 Down Net 41.16

LAFAYETIE SK.98 SPEAKER. Recommendod for use in the obove baffles. Freq. response 40-16,000 cyclas. Shpg. wt.: 58 1/h lbs.
.Nal 9.95

## MICROPHONE STANDS-CONNECTORS-PA ACCESSORIES



Model MS.10C Full Grip Mike Stond. Economicol mike stond feoturing "Full-Grip" clutch mechanism for fost quiel adjustments without slipping and wear. Functionally designed bose ossures moximum stobility ond includes celf-leveling, shock-obsorbing pads plus 3 "ontl-tip" poinfs. Full chrome ploted tube assembly. Terminates in 9." 27 threod. Bose dia, $10^{\circ}$, finished in gray shrivel. Height odl., 35 to $84^{\prime \prime \prime}$. Shpg. wt., 9 lbs. Net 5.73 Medel M5-12C. As obove but with lube extension to $65^{\prime \prime}$. Shpg. wi., 12 tbs. Net 6.17 Model MS-11C. As obove but with full chrome finished boso.

Nef 7.64

Model MS. 125 "Sleeve Action" Mike Stond. New mike stand feoturing a fully outomatic means of heipht adiustment. To lower the tiond, just press on the "Sleeve Ac. flon" contral. To rolse the stand, ony point on the tube can be grosped. Qulet and smaoth action. Hy. $351065^{\prime \prime}$ Bose dia. 10". Stondard thread.
Shpe. wt., 12 lbs

Model C5.32 Demountople 5 tand. Revolutionory in design, this mike stond is fully collopsible to fit in om. plifier or speoker corrying cose. No tools noeded. Self. levelling legs are skid-proof. Features "Fult.Grip" and Velvet Action." Adiustoble from 36 to 64 in . Fully chrome plated. $4 / s^{" .} .27$ thread
Model C5-32. Shpg. Wh., 5 lbs.
Net 6.76 Model C5-33. As obove bup with hp. odi. of $26.64^{\prime \prime}$. Collopses to $22 \mathrm{Y}^{\prime \prime}$. Net 7.94 Model DS.5. "Velvet Action" Desk Stond. Some qual. ity os floor models. Bose dia. $6^{2}$. Finished in oun mefol shrivel. Fixed ht., 4". Shpo. wt., 2 lbs. Nep 1.76 Model DS-7. As above but with ht. odi., 8 to 13." Shpg. wi., 3 lbs.

Net 2.94
Model TS-6 Adjustoble Stand. A decorative and fine appearing stond, suitoble far use on a bonquet loble. Feolures quiep "Full Grip, Volvet Action" control. Ad. iustoble from $141 / 2^{\prime \prime}$ to $26^{\prime \prime}$. Bose diometer $8^{\prime \prime}$. Fully iustoble from
chrome-finished base and tube ossembly.
Shpe Wt., 5 lbs.


Model B5-36 Prafessional Boom Stand. Offers o removable 62" boom. "Sofely Air-lock Cushion" eliminotes slippoge. The orromatic swivel joint of end of boom olwoys keeps mike in proper position. Base is $17^{\prime \prime \prime}$ in diom.. with shork mounted pods. Vertical odl., 48 to $72^{\prime \prime}$. All tubes super-chromed ploted. Finished with "Snop On" hongers for holding coble to boom.
Shpg. wh., 31 lbs. Shipped express only........ Nel 37.04 Model 88-1 "Baby Boom" Attochment. Use with ony mike stand. 32" long. $1 / 80027$ threod. Chrome plated. All swivel ports ore precision die costings.
Shpg. wh., $31 / 2$ lbs.
Net 4.41
Model TB-1 Duplen Mike Mount With Desk Attachment. For all types of mike stands. Permits use with 2 mikes, or one mike alone either behind or off to one side of the removable desk. Metal parts in chrome and cad. mium. $9^{\prime \prime} \times 11^{\prime \prime}$ Desk is of molded composition
Shpg. wi., $21 / 2$ lbs.
Net 6.47
Model TS-7 Banquet Stond (Only) For TB-1. Adiustable stand for use with TB-1 above. $10^{\circ}$ bose. All parts

## AMPHENOL MICROPHONE CONNECTORS



SEaIES 75. PRESSURE TYPE-SINGLE CONTACT O W\%.
Polished chrome ploted bross fittings with $\psi^{\prime \prime}-27$ threods 3 ot

| Typ* | Fig. | Description | lach |
| :---: | :---: | :---: | :---: |
|  | A | Female with coupling ring | 31 |
| 75.MCIM <br> 75-PCIM | ${ }_{8}^{8}$ | Male. Fits above connector | . 21 |
| 7S-rcim | C | Male. Non-shorting, chossis moun Fits MCIF |  |
| 75-CL-PCIM | D | As obove, escept closed circult | . 33 |
| 75-MCIF.A | E | Angle Trpe, femole cannector cou- | . 4 |
| 75-MCIP | $F$ | Adoplor. Connects MCIf io stond- |  |

## SERES 80. SINGLE AND DOUBLE CONTACT TYPES

For concentric lines, thielded mite cebles. ofc. Conter contacts ore pin and vacket poe. "Singlencontoct troe. Double-rantact Type. Av. thpe. wr., ${ }^{3}$ as.

| Type | Fig. | Description | Eech |
| :---: | :---: | :---: | :---: |
| -10 F | G | Fomale cable jock | . 0 |
| -00 C | M | Female chossis receptocle | . 37 |
| - 10 M | 1 | Mate ceble olug | .47 |
| tab-MC2F | G | Pemole sable jesk | 4.3 |
| t80. MC2F | ${ }^{1}$ | Female charsio receplacle | . 40 |
| T0-MCZM | 1 | Male cable plue | .47 |

FLEXO MIKESTER


Flexo Model 3. Versatile mike stand with an oxtromely flexible orm, providing wide range of odiustment. Swings out $36^{\prime \prime}$ in any direction. Ideol for use in rodio broadcast or recording studios, of fices, airport, switchboord, theotres, night clubs, schools, hotels. Mondles ony mike up to 4 lbs, in weight. $40^{\prime \prime}$ floor stond ond heovy $131 / 7^{\prime \prime}$ bose. Stem finished in duroble royale groy. Shpg. wi., 23 lbs. M- 140

Ner 19.11
Flexa Model 1. As obove but withoul the $40^{\prime \prime}$ lloor stand. Clamps or screws to any horizontal or angular surfoce up to $3^{\prime \prime}$ thick. Shpg. wh., 4\%/ lbs. M- 141

## MIKE ACCESSORIES



5 witch
329

(A) 5 witchcroft Microphone Volume Control Adepter. Designed to reduce of increose relotive valume of the microphone to workoble level. For high impedonce circults using shlelded single conductor cable only. Employs stondord microphone connectors. Shpg. wt., 8 oz.
5 wifeheroft-329
Nef 4.09
(8) Amphenol Mike Switch. Atfoch between mole ond female of 75 series connectors. Push.totalik with lock. Shpe. wt., 6 ot
Amphenol 75-MCIS Net 1.09
(C) "Y" Cannester. Has 2 males and 1 female. Shpg. wh., 2 oz.
M5-84.


UNIVERSITY ACCESSORIES
MODEL 5433 LINE MATCHING TRANSFORMER $\rightarrow 30$ wolt. Primary 45/165/200/250/500/1000/2000 ahmss secondary 4,8 and 16 ohms; 70 valt line Paps 30/25/ $20 / 10 / 5 / 2.5$ watts. $11 / 4^{\prime \prime} \times 2.15 / 16^{\prime \prime} \times 1.15 / 16^{\prime \prime} .23 /^{\prime \prime}$ centers. Fits into CTR housing. Shpo. wt. i ib.

## PE. 108

Net 4.12
MODEL 5434 LINE MATCHING TRANSFORMER - 15 woll. Primary $45 / 325 / 500 / 1000 / 2000 / 4000 / 8000$ ohms secondory $4 / 8 / 16$ ohms; powel tops with 70 valt line $15 / 10 / 5 / 2.5 / 1.25 / .65$ walts. $15 / /^{\prime \prime} \times 1.15 / 16^{\prime \prime} \times 1 \% /^{\prime \prime}$ s $2^{\prime \prime}$ centers. Fits CT.R and PB-1 housings. Shpg. wi., $1 / 2 \mathrm{Jb}$.
PE-109
Not 3.53
MODEL CTR TRAMSFORMER HOUSING AND JUNC. TION BOX - Diecost ofuminumg weotherproof. Mounis on woll or trumpet "U" brocket or will hold any University poging speaker. Shpg. wt., 2 lbs.

## PE-110

Net 4.70
MODEL PB-I TRANSIORMER HOUSING - WOter. shedding, weotherproaf. For MIL, CMIL, IB and CIS poging spookers. Shpg. wi., 1 lb.
PE- $\mathrm{B}_{11}$
.Net 2.20
MODEL PMA ADAPTER offoches ony University U-type mounting bracket to standard $1 / 2^{\prime \prime}$ I.P.S. Threoded pipe for mounting from celling, slands, atc. Shag. wh. $\mathrm{H} / \mathrm{ib}$.

MODEL 2YC CONNECTOR adapts two compression drivers for use with single trumpet horn for uses where extra high power is required. Shpg - wh., I lb.
PE.113
.Net 7.06


## RADIAL TRUMPETS

Efficient horn units designed for vertical mounting, they provide uniform $360^{\circ}$ horizontal dispersion in oll directions, reducing the number of speokers required for a given area. Slie: RIN, $181 / \%^{\prime \prime}$ high, $281 \%^{\prime \prime}$ dia., RPH, $13 \%$ "high, $25 \%$ "dio.; RSH, $11^{\prime \prime}$ high, $19^{*}$ dio.

| $\begin{aligned} & \text { Stock } \\ & \text { No. } \end{aligned}$ | Mdi. | $\begin{gathered} \text { L. } \\ \text { cutolf } \end{gathered}$ | Air Col. Length | Shpg. W. | Nel Price |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | R | 120 | 5 f | 25 lbs | 34.69 |
| PE.82 | RPH | 140 cps | 4 ft | 19 lb | 27 |
| PE-83 | RSH | 180 cps |  |  |  |

## UNIVERSITY DRIVER UNITS

for all University trumpots. Hermelically sealed, tropicalizad and weotherprool. MA. 25 for general PA work; SA.HF for wider-range tonal response, superior noise penetrotion ond greoter efficiency; SA-30 similor to SA. HF but hos built-in tine motching transformer; PA-MF has highest hefficiency ond power poting; PA. 50 similar to PA-HF, with buils-in line matching transformer. PA. 50 rronsformer logs $2000 / 1000 / 500 / 250 / 165 / 100 / 16$ ohms; $/ 2.5 / 5 / 10 / 20 / 30 / 50$ walls. SA. 30 transformer tops: $2000 / 1000 / 500 / 250 / 165 / 45$ ohms; $2.5 / 5 / 10 / 20$ / 30 wolts. All have 16 ohm vaice coils.

| stack No. | Model | Response (CPS) | Watls | 5hpg. W\%. lbs. | Net |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PE.85 | MA-25 | 85.6500 | 25 | 31/4 | 16.76 |
| PE-86 | SA-HF | 80.10,000 | 30 | $41 / 2$ | 21.17 |
| PE.87 | \$A. 30 | 80-10,000 | 30 | 51/4 | 27.93 |
| PE.88 | PA.HF | 70.10,000 | 50 | 53/4 | 27.93 |
| PE.89 | PA. 50 | 70.10.000 | 50 | 61/4 | 33.81 |

## HI-FI WEATHERPROOF COAXIALS

Complete weotherproof coax systems for fixed or mobile applications. Units include a tropicalized, heavy dury low frequency driver, a seporate coarially mounted high frequeney reproducer, and on electrical crossover notwork. Boffled chomber and front folded horn provides optimum looding, cleon boss reproduction.
MODEL WLC HEAVY DUTY SYSTEM for truly fine music reproduction. Responst 50.15 .000 cDI, 30 wotts continuous, ${ }^{8}$ ohm impodance. $90^{\circ}$ dispersion. Diameter $3312^{\prime \prime}$. depth $20^{\prime \prime}$. Shpg. wt., 72 lbs.
PE-114WX
.Net 147.00
MODEL BLC for peneral purpose use for music and volse. Extremely shollow depth simplifies instollation. Responso $70.15,000 \mathrm{cps}$ of 25 wotts continuous, 8 ohm impedance. $120^{\circ}$ dispersion. Diometer $22 \%{ }^{\circ}$ - depth $9 \% \%^{*}$. Shpg. wi., 21 lbs.
PE. 115 WX
Net $\$ 2.63$
MODEL MLC COAXIAL SPEAKER SYSTEM - For music and paging. Exceptianally natural sound. 15 watts; 150. $15,000 \mathrm{cps} ; 120^{\circ}$ dispersion; 8 ohms $121 / 4^{\circ} \mathrm{W} \times 9 \% \mathrm{ol}^{\circ \mathrm{H}}$ $\times 10 \mathrm{~s} /{ }^{\circ 1} \mathrm{O}$. Shpe. wt., 10 lbs

## PE-116

## PP-1 PORTABLE POWERPAGE

Ideol for police, fire, roilroods, sporting ovents. High output, weotherproof reflex speoker. Hand microphone with 11 ft . coble. Press to talk switch; 6 volt stondord botseries. Shpg. wt., 8 lbs

## PE-117

...................................................Nep 55.86 Shpe ${ }^{2}$ bartary for abave Burgess $4 F H$ type ( 4 -required). PP. 2 PISTOL GRIP POWERPAGE-Aim, press, Walk Weighs only 3\% lbs. incl. bolteries. Employs stondard pencil balteries. Buitl in lock for 6 to 12 V from bool or oulo bot. tery. Shps. wh., $5 \%$ lbs.
PE-ils . 44.10
BA-155 Bottery for obove Burgess 2 Pype. 16 required).

## TRUMPETS

## WIDE-ANGLE TRUMPETS

Reflex type with long oir column-good speech orticulotion. Cobreflox has dual oxponential flare design with $z$ identical $I$ plece atuminum costings. CIH has long air column, wide ongle bell for low frequency response, ond column, wide ongle bell for low hrequency response, and tol rototion. Affording a $120^{\circ}$ dispersion. Both units use ony Universily driver.

Stack Model Cutoff Col. Depth Wi. NET
No. Mor PE. $80 \mathrm{ClH} \quad 120 \mathrm{cps} 41 / 2^{\prime \prime} 20^{\prime \prime} 15 \mathrm{jbs} 27.34$

## 2WPBI - DIRECTIONAL SPEAKER

Bi-directional paging unit for providing economical caver age of two opposifely locoted oreas with one driver unit Adjustable mounting brocket permits aiming $10^{\circ}$ dowm word or oufward. Designed for use with MA-25, SA.HF SA- 30 or PA.HF driver (not included). 350 cycla low fre quency horn cufoff. 120 dispersion of eoch horn. $81 / 2^{\prime \prime}$ die. eoch bell, $201 / 2$ " long. Shpg. wl., 4 lbs.
PE. 84
Not 18.46

## PAGING \& TALK-BACK SPEAKERS

small, weotherproof highly-efficient horns and drivers for maximum penetration in noisy and large areos
Model 18-A.8-Responso 250-13,000 cps; power copacity 15 waitsf 8 ohm voice coil; $90^{\circ}$ dispersion angles $10^{\prime \prime}$ diom. $91 /{ }^{*}$ deep. Shps. wl. 4 lbs.
PE.90
Not 20.29
Madel IB-A.45-5ame os obove with 45 ohm vaice coil PE.91 .................................................................... 21.17 Model 18.A.4--Some as obave with 4 ohm voice coil PE•92 ............................................................................. 21.17 Madel MIL-A-Similor to 18 -A.8. Roted of 7.5 wotts. $120^{\circ}$ dispersion. $7-13 / 16^{\circ}$ Dlom. $8 \%{ }^{\prime \prime}$ Deep. 8 ahm volice coll. Shpg. wi., 3 $1 / \mathrm{lbs}$
PE-93 .........................
PE.94-Some, 45 ohm
Net 15.88
PE.95-Some, 4 ohm
Net 16.61
..Nel 16.61
艮艮 to MIL.A.8 dispersion 8 ohms $51 / \mathrm{m}^{m}$ or flush mounting. 5 woish- 150
$31 / \mathrm{lbs}$
PE-96
PE-97-Same, 45 ohm .................................................................................... 17.20
PE-96 ........................................................................................................... 17.20
PE.98-Same, 4 ohm.
Net 17.20

## WIDE ANGLE SPEAKERS

Madel C18.8 "Cobra" harn with unifarm wide ongle $\left(120^{\circ}\right.$ y $\left.60^{\circ}\right)$ dispersion. 300 to 13.000 cps . 15 watts swivel bracket. $7 \%^{\circ} \mathrm{H} \times 14^{\circ \mathrm{N}} \mathrm{W} \times 12^{\prime \prime} \mathrm{D} .8$ ohm vaice coll. Shpg. wt., $51 / 2$ lbs.
PI.90
Net 24.70
PE.100-Some 45 chm
.Net 25.28
PE-101-Some, 4 ohm
Net 25.28
Model CMIL-8-similar to CIB but 5 watts and 400 to $13,000 \mathrm{cps}$. Sire: $61 /{ }^{\prime \prime} H \times 91 / \mathrm{s}^{\prime \prime} \mathrm{W} \times 81 /{ }^{\prime \prime} \mathrm{D}$. Voice call 8 ohms. Shpg. wt. 4 lbs
PE-102-8 ohms
.Net 17.49
PE. 103-Same, but 45 ohm
Not 18.23
PE-104-Some, but 4 ohms
Net 18.23

## RADIAL SPEAKER

Model 1 BR-B-Small radial speoker giving $360^{\circ}$ harizon fol sound dispersion for poging ond tolk-bock. Rugped, woterproof canstruction with hermeticolly seoled driver unit. Response $300 \cdot 10.000$ cps $13^{\prime \prime}$ die.. $10 \%$ " high. Shpg. Wh., $5 \%$ lbs.
PE-105-8 ohms
..Net 27.34
PE.108-Some 45 ohm
Net 28.22

## PE-107-5ome 4 ohms <br> Not 28.22

## UNDERWATER SPEAKERS

Completely woterproof speokers for use in swimming peals. Excellent speech and music meproduction. Stoinless steel protective cover far special nylon diophragm and stlcone freoted goskets. Heovy 18 foot connection coble MM-2UW -For brocket mig : $6^{\prime \prime}$ O.O. $5^{\mathrm{N}}$ deep. Shpg. wi. $5 \%$ lbs.
$5 \%$ lbs.
PE. 119
Net 39.69
MM.2FUW-For flush mig. $6 \%$ dio, circle $7 \% \% 0.0$ $3 \%$ deep. Shpg. wt. 6 Ibs
PE. 120
PE- 120


## NEW! POWER MEGAPHONE PORTABLE SOUND BROADCASTER IDEAL FOR OUTDOOR HAMFESTS

- Uses 6 Flashlighr Cells - Completely Self-Contained - Weighs only $61 / 2$ lbs. with Botferies - High Efficlency Morn Pralects Sound 1000 ff . - Shoulder Strap for Portability and Ease of Use - Microphone Defochoble On 4 Foot Cord - For Construction, Austions, Carnivals, fire Police Use - Also Ideal for Marine, Railroad, Civll Defense, Sporting Events

A power regophone with many unusual features and mony applicalions. Basically a highly efficient sound projector horn with o built-in micraphone, capoble of amplifying and projecting the voice with o range of 1000 feet. The microphone is a telephone type element, easily reploceoble, and may be defached and axtended up to 10 feet fram the horn. The refer-type horn is extremely light-weight, rubber-rimmed, of strong. sturdy spun oluminum construction with $2 \%$, air column and is supplled with a strop far carry. ing or plocing on the shoulder. A press-to-talth switch on the microphone provides far conomy of power use-power is used anly when actually talking. Na worm-up time reaviredampuification is instontaneous. A patented non-linear current llmiling device restricts cuirent haw to sofe levels for longest bottery life. Uses 6 size "D" hashlight cless In serios with on opproximate lite of about 10 hrs. of use. Batfery compartment opens easily for bottery replacement. Size $17^{\prime \prime}$ long overall; harn mouth is $12^{\prime \prime \prime}$ diam. Shpg. wf. . 3 lbs. less bafteries.
PA. 220 Pewer Megaphane, Less batteries
Nel 29.50
BATTERIES FOR ABOVE-Burgess No. 2 equiv. 16 required) Shpe. wi., 1 dz. eo.
8 A. 157
Net eo. . 13

## PISTOL GRIP POWER MEGAPHONE

 a lafayette special 29.50
## Hand-Held Portable Sound Broadcaster!



- WEIGHS ONLY $41 / 4$ LBS. COMPLETE WITM BATTERIES - USES 4 large flashlight cells for extra life - compact aluminum reflex horn projects sound a considerable distance - patented Current-control device extends battery life - ideal FOR LIFEGUARDS, COACHES, CONSTRUCTION GANGS, SPORTING EVENTS-PLUS HUNDREDS OF OTHER APPLCATIONSI

A lightwoighi new megaphene notable for its extreme economy in battery power despite fir high sound volume output. Uses 4 large size D fashlight balferies (nat liny "penlight" cells as lound in similar units) and hos a patented non-linear current-llmiting device to give moximum possible battery life. Weighs only $41 / 4 \mathrm{lbs}$.-just pick it $u p$, olm, press the pistolagrip switch, and talki the refexed air column in the horn plus ifs special shape serve to concentrafe and direct the amplified sound ond throw if for a consideroble distancel The rubberrimmed horn is of lighiweight spun aluminum and construction is exfremely sturdy throughout. Microphone ls buili into the base of the horn. Botteries are simply replaced by loosening a single screw-dane easily with a cain. Especially recommended for use on looding platforms, by police and fire depis., in rallraad yords, at sparts evenis, for coaching, by pork ottendonis, by country resorts, for ship-to-ship and ship-po-shore voice communication, efc. Unis measures $121 / 2^{\prime \prime}$ long; mouth diameter is $81 / 4^{\prime \prime}$. $5 h p g$, wt., 6 ths.
PA. 182 Power Megaphone
Nef 29.50
BATTERIES FOR ABOVE-Burg. No. 2 or equiv. $(8$ required) Shpg. wf., 1 az. eo. BA. 157

## TITI TRANSISTOR POWER 'PHONE 2-6TATION TELEPHONE SYSTEM



ONLY

## $2-3$ PER <br> PAIR

## Lafayette Leads Again With This New TRANSISTOR Development!

- available for the first time-transistor amplified TELEPHONE HANDSEISI
- 125 mile range on a single palr of wiresi
- EACH HANDSET HAS A COMPLETEIY SELF.CONTAINED TRAN. SISTOR AMPLIFIER \& BATTERYI
- WORKS WITh STANDARD "PPENLIGMT" CELLS-NO EXTER. NAL BATTERY OR POWER SUPPIY USED OR NEEDED!
- any number of handsets may be used in a common talking systemi
- the first really modern development in intercom. MUNICAIICNI
A revolutionory new development in telephone intercammunication, at extremoly low cost, has been braught to you by lafoygtto in these new transistorized telephone handsets. Each handiel is complefe with its awn transistor amplifier, buzzer, press-to-tolk pushburnon witch, buzzer pushbutton switch, and shielded coiled cord fextendable to $6^{\prime} 1$ with mole and femole connectors ready 10 connect to 2 wire cable. Eoch hondset is handsomely styled in heary, high impaet resistance, moulded plastic and provided with o metal loop for hangbution and listen. Your porty iust depresses his press-to-tolk button to falk, releases to listen. Vaice cames through loud and cleor, with a high degree of intelligibitity. All statlons are cannected to the some 2 -wire coble, and good signols can be recelved up to 125 miles with \#22 wirel No external power suppiy or battery ore required -overything is self-contained in eoch handset, and any num. ber of handsets con be utilized. Buzzer tone is serewdriver-adiustoble. Service is extremely simple ond boltery replocement 10 singlo 2. cell th used) needs no tools of oll TECHNICAL SPECIFICATIONS: AMPLIFIER CURRENT-0.2 to

 b. / km. ) DISTANCE FOR COMMUNICATION- 200 km . ( 125 miles); BUZZER FREQUENCY- 00 cPs . BUZZER OUTPUT POWER- 60 mw .; OPERATING TEMPERAIURE- $50^{\circ} \mathrm{C}$. max.; POWER SUPPLY-BUIGESS " 2 " or RCA VSO34 batlery cell. SHIPPING WEICHT (PER PAIR)- $31 / 2 \mathrm{lbs}$.
PA-8-2.Station Tronsistor Telephone System 12 units)

PA-6 single Transistor Telephone Unil Shog. wi., 2 lbs
Nel 29.95
sA-15s Burt. $Z$ or equiv. 11 per tiandsel) Shpe. wf.,eo. 1
Nel 15.00
Alpha 1172 -2-wire cable for telephone systems, per 100' Shpg, who, $1 \mathrm{lb}, \mathrm{C}^{\prime}$.......Net 2.41


The high power hondling capacily combined with maximum intelligiblity make this a iuperior unit for poging and talk-back appli-. cations. Freauency Response 250-15.000 cps. Power copacity 30 watts. Impedance 8 -chms $90^{\circ}$ Dispersion. Equipped with a universol mounting brockel, weather proofed, roolcalized with hermetically sealed driver unit. $9 \% "$ diam. $\geq 8.13 / 16^{\prime \prime}$ deeo the speoker lends itsolf to use in ony P.A. situation. Shpg. $w t, 81 / 2 \mathrm{lbs}$. PA. $5590^{\circ}$ DISPERSION PAGING SPEAKER.................Net 15.75


REFLEX TRUMPET DUAL WIDE ANGLE

### 18.75

Perfect for all indoar and autdoor P.A. Applicalions. Essentially a pair of emponential horms having twin air columns in o single as sembly providing a wide-angle dispersion of sound- $120^{\circ}$ horizon. tally and $60^{\circ}$ vertically. May be used with ony amplifier. Size of bell mouth $181 / "^{\prime \prime} \times 9 / "^{\prime \prime}$ Depth $10 \%{ }^{\prime \prime}$. Moy be used with ony deiver. Supplied lass drlver unil. Shog. Wt., $101 / 2 \mathrm{lbs}$.
PA-53 DUAL WIDE ANGLE REFLEX TRUMPET
Ne1 18.75

# ElectroVorice 

 P. A. PROJECTORS

## PAGING SPEAKERS

Model 844-Efficient poging speoker for medium ongle sound distribution. Expremely smooth respanse provides nofural, pleosing poging withoul feedbock. Rugged diecost horn. Roted 30 waths 8 ohms. $90^{\circ}$ dispersion. Dimensions $9 \%$ "diam. $\times 8 \cdot 3 / 16^{\prime \prime}$ deep.


Net 20.39
voice coil. Shpg wt $81 /$ tbs.

| PE-11 |
| :--- |
| 5.00 Oown | Model 847-Utilizes fomous CDP Princlple. Freauency $250 \cdot 10,000$ eps. Uniform Dis. persion $120^{\circ} \times 90^{\circ}$ oreo. Hos two Flbergloss molded horns-soch covering only holl the voice ronge. Roted 25 wolls; 10 ohms. Size: $113 / s^{\prime \prime} \times 73 / 4^{\prime \prime} \times 10.7 / 32^{\prime \prime}$. Shpe wt.. 10 lbs.

5.00 Down

Net 27.22
Model 847-45-Some os 847, bul with 45 ohm voice coill. Shpg. wf., 10 lbs
Nel 28.12

## HI-FI OUTDOOR WEATHERPROOF SPEAKERS

Musicasfer-High Fidelity performance in o comport portoble system. Ideal for sauore
dances, school oudiforium, clubs ond outdoor hi.f. Die cost oluminum housing, weotherproof cone, ond extended boss response through bock-looded folded horn. Response 80 . $13,000 \mathrm{cps} ; 8$ ohms; $120^{\circ}$ dispersion; power 30 watts. Dimensions: $211 / 2^{*}$ ^ $211 / 2^{\cdots}$, $81 / 2^{\prime \prime}$. Shpg. wh. 34 lbs.
PE-14WX
5.00 Down

Net 47.04
Musisoster 11 -Some os obove, except wider coveroge up to $18,000 \mathrm{eps}$. Hos buill-in Ronge Extender with crossover. Shpg. Wh., 36 lbs.
PE-15WX

Hos buill.in
Model MB-1 Brockel Po mount Musicoster hot ogainst woll. Shpg, wt., 1 lb
PE-16
Net 2.67

## TRANSFORMERS AND ACCESSORIES

Madel TM-Transformer Housing. W'eotherproof. For ony E.V Tronsformer. Mas monual wattage indicotor. No soldering required. Size $4^{\prime \prime} H \equiv 5^{\prime \prime} W \pm 3^{\prime} 12^{\prime \prime} \mathrm{O}$. Shpg. wt. $21 / 2 \times$ lbs.
PE. 17

Net 4.70
Model TRS- 5 woll 70.7-volf line tronsformer. Primory impedance lops 1000,2000, 4000,8000 ohms: 5, 2.5. 1.25 and .675 woth line power tops. 4. 8 ond 16 ohms secondory impedonces. Frequency response: $\pm 2 \mathrm{db} 35 \cdot 20,000$ eps. Dimensions: $2^{\prime \prime} \times$ $1.11 / 16^{\prime \prime} \mid 11 / 4^{\prime \prime}$. Shpe. wt., I Ib.
PE-18
Net 2.94
Model TR-15-Some os TR. 5 except 15 -wolt copocity. Primary impedonces of 333, 500, $1.000,2000$ ohms ond $15,10,2.5$ wolt line power lops. Dimensions: $13 / 4^{*} \mathrm{M}=21 / \mathrm{s}^{\prime \prime} \mathrm{W}$


Nel 3.50
Model TR-30-Some os TR.5 except 30 woll capacity, Primary impedonces of 167, 250 , 500,1000 ohms, and $30,20,10$, and 5 woll line power tops. Dimensions $13 / 4^{\circ} \mathrm{H} x^{\prime} 2^{\circ}{ }^{\prime} \mathrm{W}^{\prime}$


## PE-20

Nel 4.10
Madel TR-50-Some os TR. 5 except 50 wall copority. Primory impedonces of $100,125$. $200,333 \mathrm{ahms}$ and 50,40, w 5 and 15 woth line power tops. Dimensionss $2^{10} M \times 2.5 / 16^{6 \circ}$ $\mathrm{W} \times 21 \mathrm{~K}^{*} \mathrm{D}$. Shpg. wt., 2 lbs

Net 5.29
PE- 21 Model AP-1-Used to odopl E.V "U" bracket to $1 / 2$ " pipe. Shog. wt.. 1 ib.
PE. 22
Net 1.18
Model AD-1-Driver odopter allows use of E.V Convertible Driver on horns with $1.7{ }^{16} 6^{\prime \prime}$ - 16 threod. Shpg. wt., 1 lb
PE. 23
Net 1.47
Model AD-2-Horn odopfer ollows use of E.V reentrom horns with drivers hoving $1.716^{\prime \prime} .16$ threod. Shpg. w.. 1 lb .
PE. 24
Nel 1.77
Model RA.1-Rodiol Adopler instontly converts FC. 100 horn or 848 prolector to " 'odiol opplicotions. Entends $21 / 2^{\prime \prime}$ in front of FC- 100 horn with DC. 30A. Shpg. w1. 16 .
Madel REJ5-Range Extender for 848 or FC. 100 . Improves respanse and dispersion of highs- 30 woir coposity. Response $3500-18,000$ cps. 16 ohms. Comalefe with erassóver. mounting brockel. Shpg. Wp., $41 / 2 \mathrm{lbs}$
PE-26 5.00 Down
Net 22.05
Model RE-36-Ronge Entender kit. Converts Musicoster to Musicoster II. Includes driver. bevel, crossover and whing horness. Shpg. Wh., $41 / 2 \mathrm{lbs}$. 500 Down 23.51
PE-27
Model 879 -Joining Kit for two op more 848, 8481 T of FL-100 horns in multiple arroy. One kit required for eoch iunction of Iwo horns. Shpg. wr., I lb.
PE-28
Net 1.62

AND ACCESSORIES

FC
FR150


0

TH.THANSPORMER HOUSING


MB. 1

AR 150

## PROJECTOR HORNS

Exclusive compound horns permit widest ronge of lowest distortion, plus complete direc. lional control of both highs ond lows. Model \&C. 100 -Similar to the COP, but with 2 diffoction horns for uniform wide. ongle coveroge ond reduced distortion. Flexible coveroge control provided by individual odiustment of eoch horn, Lorge horn is of molded Fibergloss. Use ony E-V driver. Specificotions: Low. freauency horn cut-of 100 CDs ; toper, 100 cps ; oir column length $54^{\prime \prime}$ sound distribution $80^{\circ}$; High Frequency sound distribution $90^{\circ} \times 130^{\circ}$. Crossover 1.000 cps . Mouthsize $101 / \mathrm{m}^{\circ}=201 / 2^{\prime \prime}$ depth (less driver). $20^{\prime \prime}$. Shpo. w1., $131 / \mathrm{s}^{\mathrm{s}} \mathrm{lbs}$.
 Model AC. 100 -Concentroting version of COP. Some specificotions, chorocteristics and dimensions os FC. 100 , except utilizes round horns for mosl concentroted coveroge with dimensions os FC. 100 , extept utilizes roun
greotest efficiency. Shog. Wh.. $131 / 2 \mathrm{lbs} .00$ Down
PE-30 WX
5.00 Down
Net 26.17
Model HD 1000 -Difroction horn for converting AC 100 to wide-angle ( $60^{\circ} \times 120^{\circ}$ ) coveroge obove $1,000 \mathrm{cps}$. Shpg. wi., $11 / 2 \mathrm{lbs}$.
P\&. 31
PE-31
Ne1 3.82
Model HC 1000 -Concentroting horn for converting FC 100 to concentroted $\left\{30^{*}\right\}$ coveroge obove 1,000 cps. Shpg. Wh., 4 lbs
PE.32 Net 5,88
Model 848 -Combines FC100 Compound Diffroction Horn plus DC 30 Compound Driver for o wide ongle sound with entrembly lew distortion. Soecifications: Frequency response $150-10.000 \mathrm{cps}$; impedonce 16 ohms; dispersion $90^{\circ}$. $120^{\circ}$; power hondling copocity
 PE. 33
5.00 Down

Net 44.10
Model 848.45 -Some os 848 , but with 45 ohm voise coil.
Net 44.99
Model 848LT-Long Throw CDP (with 1000 cycle concentroting horn). For projecling intelligible, extended ronge sound over great distonces-limising dispersion to a selected oreo. Allows pinpoinfing sound 10 o selected oudience. Dispersion $50^{\circ}$. Other specifico. tions same os 848 . Size $201 / 2^{\prime \prime} \times 10^{\prime} / z^{\prime \prime} \times 21^{\prime \prime}$. Shpg. wh., 20 tbs.
PE-35WX
with 45 ohm voize coll.
Net 44.10
Model $848 L T-45$-Some os 848 , but with 45 oh
PE. 36 WX
5.00 Down
Net 44.90

## NEW REENTRANT HORNS

New reentront horns provide wider ronge thon ever before of lowest cost. Bolanced highs ore provided by uniau E.V ring reflector design
Model FR 150 Reentrant Morns. Medium ongle rectongular fibergloss horn provides ercellent coverage. Adiustable mounting ongle. May be stocked for muthiple speoker opplications. Low sithouelte. Accepts ony stondord driver. Specifications: Low fre.
 PE-37 WX.

Nel 21.75
Madel AR 150 Round, oluminum concentrating horn for moximum penetration of low. est cost. New exponential design ochieves extremely wide ronge with remorkobly notural voice ond music qualify. Rubber-edge domping ring liminoles resononces. Accepts ony slondard driver. Specificolions: low frequency horn-cut-of is0 cps; foper, 150 cps; oir column length $41^{\prime \prime}$; sound distribution $85^{\circ}$; diameter $12^{\prime \prime}$ : depth (less driver) $17^{\prime \prime}$. Shpg. Wh: 8 lbs.

## VERSATILE CONVERTIBLE DRIVERS

Con be used interchongeoble in compound or reentront horns. Feolure highest efficiency peoked" response for finest intelligibility. Double flus ceromic mognets. Edgewise. wound ribbon voice coils. Rugged and weotherproof. Availoble with 10 or 45 hm volice coils and builtif 70.7 volt line constont valtoge transformers.


Page 248

## Challenger pusic adoress amplifiers \& srstems by Bogen

 lion. Microphone jark on front panel. Decarotor styling smoll clubs, charaivals. smoll clubs, ichoolrooms; SPECIFICAIIONS - RESPONSE: $30.15000 \mathrm{cps}+\ldots$ INPUTS. 1 INPUTS: 1-mike, I-phono. GAIN: Mike- 115 dbz phono76 db. MUM: (Phonol-70 dbs (Mike)- 55 db . OUTPUT
TAPS: 4,8 and 16 ohms. CONTIOLS, Mike, phono, SELEC. TONE, On-oh. TUAES: 6L6GB, GAUS, GAVS: GBWA (Rectifier)

CHALLENGER CHA 10 - 10 -watt amplifier less cage (5hog. Wh. 10 ibs.)Net 36.90 CAG 10 - Cage for CMA10 Amplifier.... (Shpg. wt. 3 lbs.)..... Net 3.90 CHALLENGER CHA IOS - Complele 1 -speaker Poriable System. Includes I-CMA10 complete, $1-8^{* \prime}$ PM speoker mounted in portable corrying case. 1-Bogen-EV 927 civstal microphone with sland, $10^{\circ}$ mike coble and MCIf connoctor.. 28 ibs Not 77.19 CHALIENGER CHAIOP - Complete 2-speoker Partable Systom. Includes 1-CHA1O complele: 2-10 PM spuakers, eoch with 25' cable ond plug, mounted in split pertoble coriying case; 1-Bagen-EV 927 crystal microphone with stond, $10^{\prime}$ mike coble



FEATURES: Seporate boost/eut bass and treble ione controls - 70 -voll top. Avallable with 3-speed phonogroph top with Ranett furnover cartridge Recommended for schools. churcher, smoll worehousen, parages.
SPECIFIC ATIONS - RESPONSE: 30.1 SPECIFICATIONS - RESPONSE: $30.15,000 \mathrm{cps} \pm 2 \mathrm{db}$.
INPUTS: 1 -mike, $1-$ phono. GAIN. Mik -120 db phono INPUTS: I-mike, I phono. GAIN: Wlke- 120 db , phono-
76 db. OUTPUT TAPS: 4, $8,16,245$ ohms ond 70 volts. CONTROLS: Mike, phono, bass, treble, on-o\#. TUBES: 2GYOGT, 2-12AX7, SAXSGT (Rectiner). POWER: 80 w ., 117 7.60
$103 / h$

CHALLEMGER CHA20-20.wall amplifier complete (Shpg. wt., 20 lbs .) Net 54.60 CMALIEMGER CHA20Y 20 -woft omplifier with 3 .speed ohono log. Ronelle jugn.
ishpg. wi., 23 lbs. Nef 3.50 CHALIEMGER CHA2OP - Camplete Portoble Svitom. Includes 1 -CMA20 complete: 2-12* Mnico 5 PM woakers, each with 25 coble and plug, mounted in spltt portoble case: 1-Bogen.EV 927 crysial microphone with stond, $10^{\prime}$ coble and MCIF Cnnnector
(5hpg. wh., 50 ibs.)
CHALLENGER CHA20YP - Completo Partable System with phonograph tap. Some a CHA20p florger corrying casel with 3 -speed phone top with Ronatie furnover cort ridge
CMALLENGER CHA208 - Completo Indoor System. Includes 1-CMA20 completes CHABLENGER CHA2OB - Complete Indoor System. Includes 1-CHA20 complutez 2-12. Anico SPM speokers, eoch with 25 coble and plut, mounted in hondefinished MCIf colnector .. (Shpg. wi., $44 \mathrm{lbs)}$. ( MCIF COBnector
CMALLENGER CHAZOY: (Shpg. Wi., Complete Indoor System with Phonogroph Top. Some os CHA208 with 3-speed phono lop with Ronetto furnover cartridgo, 47 lbs. Net 120.56

fEATURES: Boss and treble tome contrals 70 volt output tap Available with 3 -speed phano top with Ronette cort. ridge - Suggented for larger ouditartums, foctory, oirports, lorger worshouses, pight clubs
SPECAFICATIONS Pight clubs: $\mathrm{RESPONSE:} 30-15,000 \mathrm{cDs} \pm 2 \mathrm{db}$. INPUT5: 2-mike, 1 -phono. GAIN: Mike- 120 dbs phonoIAPS: CONTROLS: 2-mike, phono, boss, treble. OUTPUT


天 $81 /{ }^{2} \mathrm{dd}=103 /{ }^{\prime \prime} \mathrm{h}$
CHALLENGER CNA33 - 33-woll amplifier complete (Shpg. wi.. 27 Ibs.) Net 69.00 CHALLEHGER CHA33Y - 33 -woll omplifier with built-in phono lep. Ronette furnover COItridge CNALLENGER CNA 33 - Complet Portoble Svitem. Includes 1 -CHA33 camplete bafie: 1-bogen-EV 927 crystol microphone with stond, $10^{\circ}$ coble ond MCIF can. nector (Shpg. Wl., 56 lbs.). Nel 124.65 CHALLENGER CHAS3YP - Complete Portoble System with phono iop. Soma os CMA33p \{lorger corrying cose\} with 3 -speed phono top with lionetie furnover cort:
(Shog, wh. 59 lbs.) 144.80 CHALE NEER CHA33B - Complete Indoor Svstem. Includes 1-CHA33 complete 2-12" Alnico 5 PM speokers, oorh with $25^{\circ}$ coble ond plug. maunted in $12^{\prime \prime}$ hond finished wolnut woll bofles; I-Bogen-EV 927 crystol microphone with stond, 10 coble ond MCI connector (WP., 54 lbs.)

Net 120.98 CHALLENGER CHA33YB - Complele Indoor System with phono lop. Some os CHA33B with 3 -s seed phono top with Ronelte furnover cortridge, wh., 57 Ibs... Nel 138.56 CHALLENGER CHA33T - Complete Outdoor System. Includes 1-CMA33 complete;
 CMALLENGER CHAJJYT - Complete Outdoor Svitem with phono lop. Some os CH 33 T with 3 -speed phono top with Ronette furnover cartride., 50 les. Net 141.75

CHA62O 20-WATT UNIVERSAL MOBILE AMPLIFIER AND SYSTEMS EEATURES: For 6 valis $O C, 12$ volts $O C$, or 117 volis $A C$

- Bollery-to.AC inverter buili-in for 117 valts 80 cps $A C$ - Botlery-to-AC inverter builf-in for 117 valts 80 cps AC
to built-in or enternol phonogroph . Separate boost/Cut bass and treble tone contrals. Plug-in speoker connection - Only 15 ampere batlery drain of 6 volfs, $7 / 1 / 2$ ampere of
12 volis 70 volt output fop. Available with 3 .speed 12 volis 70 volt output top. Available with 3 -speed
phono top with Ronette furnover cartrides. For sound phono top with Ronetle furnover cartridge - For sound
trucks, polltical meetings, revival meetings, auditoriums SPECIFICAIIONS - RESPONSE: $30-15,000 \mathrm{cps} \pm 2 \mathrm{db}$. INPUTS: 1-mike, 1-phono GAIN: Mike -120 db : phono-76 db. MUM: (phona)-75 db; (Mike)-55 db below GAIN: Mike-120 db: phono-76 db, MUM: (phonal-75 db; (Mike)-5S do below roted oulpuf. OUIPUI TAPS: 4, $8,16,245$ ohms ond 70 volt. CONTROLS: Mike,
phong, boss, treble, moster powef swith, phono molor on-off. TUBE5: 2-6VGGT, phonc,
$2-12 A X 7$; SAXSGI (Restifier). POWER CONSUMPTION: 80 watts, 117 valls, 60 cDs $2-12 A X 7$; $6 A X S G T$ (Rectifier). POWER CONSUMPTION: 80 watts, 117 valls, 60 cDs
$A C ; 88$ watts, 6 volis $D C$ or 12 volis $D C$, with phona. DIM.: CMA $20-151 / 4^{\prime \prime} w$ a $10^{\circ \prime} \mathrm{d}$
 $\times 8 \mathrm{l} /{ }^{\prime \prime}$
30 lbs.
CHALEENGER CHAB20 - 20-waft universol mobile omplifier with tuber, coge ond AC and battery cables 15 hpg . Wl., 27 lbs .1 Not 105.00 CHALLENGER CHAC20Y - 20 -wall universol mobile omplifier with tubes, cage and AC ond bottery cobles ond buill-in 3 -speed phono fop with honette furnover cort. (Shpg. Wh.. 30 lbs.). Net 120.00 I-CHA620 amplifier complete os above; I - University PH trumpet with MAns drive unit: 1-Bogen.EV 927 crystal microphone with stond, $10^{\circ}$ coble ond MCIF connector (Shpg. wi., 47 lbs.$)$ Net 163.37 CHALLENGE CHA620YT - Complele Universol Mobile System with phonagraph lop. Sam os CMAS20T with 3 -speed phono top with Ronelle lurnover cortridge.
 FEATURES: Wide tomal ronge 2 microphone inputs. 1 phonogroph input, eoch individually controlled * Feolures the ExCLUSIVE Bogen Contralled Positive Feedbock Circuit and improved distortion figures, fransient response and law frequency power hondling characteristics. Fized bios on power stage control grids for moximum sofety - 70 volf and balonced 25 volt oulput lops. Seporol boost/cut boss and ireble tone contrals. Plug-in speaker cannection. Decorotor siyling - Recommended for large stodio, meeting halls, foctories, warehous
SPECIFICATIONS - TESPONSE $20.20,000 \mathrm{cDs} \pm 2 \mathrm{db}$. INPUTS: 2 microphone, I phonogroph. GAIN: microphone 120 db , phonogroph 85 db . HUM and NOISE: micro hone -55 db , phonogroph-70 db below roted outpul. IONE CONTIOL ACTION treble $\{10 \mathrm{La} \mathrm{c}+5 \mathrm{db}$ to -17 db ; boss $(60 \mathrm{cps})+12 \mathrm{db}$ to -12 db . OUTPUT TAPS: 4, 8, 16,65 ohms, 70 -voll ond boloned 25 -volt line. CONTROLS: 2 micro phone volume, I phonogroph volume, boss, treble. TUBES: 4-6AV5A, 12AX7, 6U6, 6CM7, SU8: 3-SY3GT (Rectifiers). POWER: 370 woms of full signol; 117 volis, 60 $\cos A C$. DIM.: $171 / \mu^{\prime \prime} w=12^{\prime \prime} d \times 61 \%^{* \prime \prime} h$.
CHALLENGER CHA75-75 wall omplifier complete. 43 lbs .. Net 105.00 CHALLENGE若 CHATSB - Complete Indoor System. Includes 1 -CHATS complete 4-12 Alnico S PM speokers, each with $25^{\circ}$ cable ond plug. mounted in $12^{2}$ hond finished wolnut woll boffies; 1-Bogen.EV 927 erystol microphone with stond. 10 coble ond MCIF connectar \{Shpe. wi. 90 Jbs.l Net 185.66 CHALEENGER CHA75T - Complote Outdoor System. Includes 1-CHA75 omplifier complele; 3-University PH trumpets with MA25 driver units; 1-Bogen-EV 927 crystol microphane with stond, $10^{\circ}$ coble ond MCIf connector wi.. $100 \mathrm{lbs} .$. . Net 231.59

 For CHAD5 Amplifier - $19^{\prime \prime}$ M $81 / 4^{\prime \prime}$ for stondord $19^{\prime \prime}$ rock. complete with oll necessery mounting hordwore. Groy malol Iustre finish (Shpg. . 1 .. 16 tbs. 1 For CHA33, CHA20 and CHA10 Amplifiers - $19^{\circ \prime} \times 7^{\prime \prime}$ for standord $10^{\prime \prime}$ rack, complete with oll necessory mounting hord | wore. Gray melollusire finish (Shpg. Wh. 16 lbs. Ner |
| :--- |
| MODEL SV-3 SHOCK-MOUNTING BASE - For Mobile 8 m |
| .25 | plifiers Models CHA620 and CHA620Y wh.. 3 lbs. . Net 8.25 FEATURES: Self-powered 4 microphone and 2 rodio-phono

inpuls E Any 4 channols moy be used of the some lime - All channels Individually controlled for mixing and foding - Colhode follower oufput - permits long coble to omplifier - Connects to high impedonce radio/phono input of ony om. plifier or tope recordor. 6 volts output bow hum lovel.
SPECIIICAIIONS-OUTPUTVOLIAGE: 6 volts. FREOUENCY RESPONSE: $50.15,000 \mathrm{cps} \pm 2 \mathrm{db}$. GAIN: Mila -59 db , Phono -30 db . MUM: 70 db below 6 volis. OUTPUT IMPEDANCE:



## BOGEN ELECTRONIC \& TELEPHONE TYPE INTERCOMS

## Bogen Challenger intificices



CMMG and CHMI2 Master CHR Remote DUAL-PUAPOSE


The Bagen "Challanger" provides deluze interaffice cammunication tor most office, farm, industrial and home op. plications. These are duat purpase units for either of 2 basic hinds of Intercam syatems.
MASTER-TO-REMOTE SYSTEM: Model CHMG Moster con Converse with ony one or all of up to 5 remotes; Model mates have "Jalt" bar to originate calls to Master; Rence cantact has been established they no langer need use the Talk bar and these Remates may be mounted on shelves aut of the way of prying fingers if call-origination from Remotes is not requlred. Remotes cannot talh with eoch other-only with the Moster

ALL-MASTER-SYSTEM: Up to 6 stations in o model CHM6 All-Master Systam: up to 12 stations in o Model CHMI2 All-Master System. Both madels may be used in a single tystem if desired. Model CMMG has on "All" pasition and may talh to all stations of onces Model CHMI2 has no All position: a sysfem of Model CHMO Mosfers may number of sences; any All-Master System may hove ony without interference, up to the limit of the number of stations. Any station can coll any other station even if the colled slation's power is off. Power must be furned on to reply.

Alf Masters are housed in sturdy, good-looking thermosetting phenolic plastic cabinets; size $10^{\prime \prime} \times 5 \%^{\prime \prime} \times 4 \%^{\prime \prime} \mathrm{d}$. Remotes are $5 \%$ " $\times 41 / 2 \times 4 \%$ "d. Masters hove "Mute" (standby) position to eliminate noise fram Remote sic. tions while remaining ready to receive calls from $\mathbf{R e}_{0}$ motes; they olso hove 5 -position (or 11-position) station selector switches, plus "Mute" position, plus "All" position on Model CHM6 only also provided ore spring.return press-fo-talt switch ond volume control with on-off swlich Model CHR $\mathrm{L}^{2}$ emotes hove press-fo-tolk switch 117 yolts AC ar DC. Shpg. wt., of Masters is 7 lbs .; Remole, 3 lbs . FOR WIRE, SEE "WIRE REQUIREMENTS
DOGEN CHM6 MASTER
DOGEN CHMI2 MASTEI
5.00 Dawn
Net 27.57

EOGEN CHR REMOTE

## TRA PAGING ACCESSORY FOR TQ-SERIES SYSTEMS

Now you con poge from ony ploce in plant or office. Any desk, ony phone operotor, ony executive whe hos need to page simply lifts the hondset of his Bogen TO-Series telephone intercom, presses the stotion button reserved for PAGE, and his messoge is trarismitted through the P.A system, with the ald of the TRA Poging Adapter. The TRA incarporates a relay, a volume control for the telephone paging cliccuit, and an input jack. You may be sending music through the P.A. system - the TRA automatically thufs it off when you pape - and paging may be at a different level than the music. Uses some PRS-1 power supply as rest of system, and conmecls with some wiring os o Shotype station.
TRA PAGiNG ADAPTER List Price 40.00 ........Net 24.00


COMPLETE WITH 50' CABLE

## BOGEN "Challenger Twosome" 2-STATION SYSTEM

- COMPLETE, LOW-PRICED 2-WAY intercom system to save you COUNTLESS STEPS POWERFUL J-TUBE AMPLIFEE
- for baby-listening, contact with sick-room or play area 2 MANY OTHER HOME USES
- FOR OFFICE INTERCOMMUNICAIION-SAVES STEPS, TIME, MONEY - FOR RESTAURANTS 1 STORES - EXTRA-STRONG PLASTIC CABINET - printed.circuit wiring for years of trouble free opegation REMOTE STATION "PRIVACY" SWITCH FOR PRIVATE OR NON. pRIVATE USE AT WILL

A new high-powered 2-stotion infercam with high sensitivity for picking up the slightest sound af either end and reproducing It with sufficient valume of the other end. The master station has a valume contral which regulates both Master and Remote, and a Talh-Listen switch. The Remote has a Tatk-Listen switch and alsa has a Privacy switch which permits "at-will" conversion of the Remate to nan-private aperation in which the Remafe con be used os o plakup point for baby-sitting etc., in which you can reply to cafls from the Moter without the need to aperate the Remate's Talth-Listen switch. Installation is simple - the 50 feel af 3 -wire coble supplied is eosily cannected to the Remote stotion. Power consumption of the Moster is 25 wotts of 117 valts AC or DC. Size of earh station is $7 \%^{\prime \prime} \times 5 \%$ " $\times 5 \%$ " high. Shpg. wh., (complete system), 6 lbs.
CHS-2 Twosame Sytem, Including Master, Remate, and $50^{\prime}$ cable. List Price 46.05 .....5.00 Dawn...... Net 26.97 FOR ADDITIONAL WIRE, SEE "WIRE REQUIREMENTS"

## BOGEN TELEPHONE INTERCOM EQUIPMENT



TQ-SERIES COMMON TALKING-SYSTEMS - REACH ANYONE IN YOUR OFFICE INSTANTIY

- relleve regular telephone lines
- NO DIALING; JUST PUSH A BUTTON

Bogen-Phones are the perfect onswer ta tied-up switchboards. Wanderful for inter-office calling white holding custamers on the regular telephone line. Just press a bution.... o buzzer sounds at the station of stations called. You ore instontly connected when the recelver there is tifted. Selective ringing, camman talhing: allows only i conversation of o lime. "Conference" feature lets you tall to os mony statians of ance as there are receivers in the system. Three madels are avallable to handle up to 13 statians. All stations are haused in impoct-resistant gray plastic. Rubber feet on the base prevent sliding. Each handset hos a 4 ff . card, self-cailing ta prevent snarling. A single $110 v$ AC input power supply serves each entire system. Each station is supplied with o 6 ft . masler cable and o iunction box for easy wiring and supplied ready for destr or wall mounting. An adhesive push-buttan-directary tape is supplied with each station. Coble required between stations - 3 conductors more than number af stations Shpg. wt., 5 Ibs. per unit.
TQ-1 1-Buttan, 2-Stathon Hondset (per Pair)
5.00 Down


## TCP-1 2-WAY TELEPHONE PAGING \& INTERCOM SYSTEM

Pravides paging fram and meply to any one of up to 20 TCP. 1 telephone handset stations, with ony public oddress ampliffer, poging spookers or horns, and the PRS-3 Power Supply and Paging Adapter. Each TCP-1 hondset station hos a paging pushbutton and an "In Use" busy light. When the handset is lifted off the cradle ond the paging bulton is tepresed the TCP. 1 connected to the omplifier input through the PPS. 3 ond oll speakers ore cannected to the poge. When the poge. When the paging bufton is released, oll speakers ore cannected to the omplifier input for reply through any of the speakers, ond TCP. 1 . are connected to the amplifier output to receive raplies. The quolity of the system hos seen custam-tailored for greatest intelligibllity. Th. PRS 3 includes a 110 valt AC pawer supply for the TCP- 1 's, or paging relay, ond an "In Use" light power supply. The PAS-1 and TCP-1 come with a coble and terminal box for
 Price 42.50 Supply and Poging Adapter $21 / 2.06$ Down $311 \%$ Shpg wt is ibs. One required Net 25.50 PRS-3 Power Supply and Poging Adapter $21 / 2^{\prime \prime} \times 31 / \omega^{\prime \prime} \times 111 / \%^{\prime \prime}$. Shpg. wt., 16 lbs . One required per system. List Price $\mathbf{7 5 . 0 0}$

FOR WIRE, SEE "WIRE REQUIREMENTS


## NEW BOGEN BT-25 25 WATT TRANSISTORIZED MOBILE P.A. AMPLIFIER

## - USE ON 6 OR 12 VOLTS

- $85 \%$ LOWER CURRENT DRAIN THAN TUBES - COMPLETELY HUM FREE

The first commerciolly avoiloble fully transistorized P. A. amplifier offering 25 watis of power from o 12 volf bettery. So smalk that if fits inte the glove comportment of a cor. Perfect for use in cars, frucks, or busses for public oddress or emergency use. Batlery drain is only 3 amperes at full public oddress or emergency use. Battery drain is only 3 amperes at full current drain is only 1.4 amperes of a full output of 6 Wotts. Inputs are current drain is only 1.4 amperes of o full output of ${ }^{\circ}$ Wotfs. inputs are individuolly controllable to permit mixing. Size: $3 \% \times 4 \% \times 6 \% \mathrm{high}$ BOGEN BT-25
7.20 Down

Net 72.00

WIRE REQUIREMENTS FOR CHMO AND CHMI2 ALL-MASTER SYSTEMS - RUN O multh-wire coble from the lirst stotion ond and with the lost, using I wire more thon the total number of stations. FOR CHMG ANO CHM12 MASIER.TO-REMOTE SYSTEMS - Use a seporate length of WR-115 3-wire cable from the Master to coch Remate. FOR CHM6 AND CHMI2 INTERMIXED SYSTEMS - RUn Moster-ta-Moster cable seporately, as above, ond individual Marter-to. Remote cables, os obove. TO EXIEND "TWOSOME" CABLE - Use WR-115 coblo up to 100 200'. FOR TO-SERIES TELEPHONE SYSTEMS - Use 3 wires more thon the total number of stotions. Coble runs from slation to station, starting with first station ond onding with lost. BOGEN TRA PAGING ADAPIER connecis info TO system like ony other stotion. FOR ICP-1 PHONE.PAGE SYSTEM - Use WR. 1165 -wire cable between each ICP-1 phane ond the next; use I.WR-119 shielded wire from all speakers in parallel to PRS-3 power supply: use o length of Alpho 1172 2 -wire coble from omplifier output 10 PRS S $_{1}$ run o seporate length of WR- 119 shielded wire from omplifler's phono input and from microphone input ta PRS 3 , Connect PRS 3 to neorest ICP-1 with 5 -wire cable.

## BOGEN-FANON INTERCOMS

## Bogen "home communo-phone" intercom



FC2


FR 4


FR 5


Two-wey infercom system for bulltin mounting in wolls for up 1010 stotions (up to 6 mostors and 4 remotes, or 1 mostor and up to 9 remotes). Mosters moy coll ony other sfotion and moy monifor other mosters, os welt os remotes. Seporoto power supply amplifier outomotically returns to "slond-by" when system is not used-drows proctically no power. Back boxes, seporotoly ovolloble. permil buying in stoges. They moy be instolled during house construction, with infercom units just slipped in when house Is finished.
FC2 MASTER STATION With Volume, Function ond Selector switched. $111 / 2$ w wide n $41 / s^{\prime \prime}$ high. Shpg. wl., $21 / 3 \mathrm{lbs}$. PA. 185 List 25.75 ( PA-186 RBFC2 REAR BOX For FC2, $10 \%{ }^{\prime \prime} w n 31 / \omega^{\prime \prime} h \times 3 \% " \mathrm{~d}$, W1., $11 / 3 \mathrm{lbs}$....... Net 2.93 FRA REMOTE STATION With beige ond brown finish. $51 / 2^{\prime \prime} w \times 41 / 2^{\prime \prime} \mathrm{H}$ PA. 191 Shpg. wi., i $1 / 3$ lbs.

Net 7.20
PA-187 IFRS REMOTE STAIION As obove, but with pushbution for doarbell. Net 8.10


## PA-188

Net 2.06
P5ILE POWER SUPPIY AMPIIFIER One required for eoch system. For $110-120$ VAC 15 wofts ( 1 woll stondby). With moster On-Off switch. Ponel $10^{\prime \prime} \mathrm{h} \times 10^{\prime \prime} \mathrm{w}$. Shpg. wh..
 PA. 190 RBP5 BACK BOX For Power Supply $8^{\prime \prime} \times 8^{\prime \prime} \times 4^{\prime \prime}$ deep. W4.. 5 lbs. Nel 4.50 WIRING REQUIREMENTS (1) Run o coble common to oll mosters. Use 4 iwisted poirs plus one poir for eoch stotion (remotes ond mosters). (2) Run 3 poir coble from power upply to neorest moster. (31 Run 1 poir coble from eoch remote to neorest moster. CABLE for Bogen intercoms. Supplied.

Cabte for Bogen infercoms. Supplied in 100 ft . lengths, but odd tengths will be | NO. | WR-12 | BELDEN 8741 | BELDEN 8742 | BELDEN 8743 | BELDEN 8753 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| PAIRS | 1 | 2 | 3 | 6 |  | Patrs

Nef per 100 ft .
MASCO WIRELESS ELECTRONIC NURSE

- NO INSTALLATION
- NO WIRING
- JUST PIUGIN
- COMPLETEIY PORTABIE

No Instollotion ... completely portoble iust plug in ond flick the iwitch. Wiesers Electronic Nurse then picks up ony sound In its vicinity ond tronsmits to your rodio, up to Electronic Nurse onywhere-of home, visiting neighbors, working outdoors, even sifting rodio chonnel between 1300 ond 1750 kc . Tubes: $124 \times 7$. 50 C 5 stoble lo ony cleor rodio chomhel befween 1300 ond 1750 kc. Tubes: $12 \mathrm{Ax7}$. 50 C 5 , selenium rectifier. Controls Power ON-OFF ond pilot light. Power 18 wolts of 110.120 volis AC or DC.


## FAMOUS BRAND 2-STATION INTERCOM

- ALl-mETAL UNBREAKABLE CABINETS
- VERY Smant strling-FOR CHIIO'S ROOM OR LIVING ROOM
- for ily volts ac or dC
- JENSITIVE-PICKS UP SLIGHTEST sounds at a oistance
- COMPLETE WITH 50' CABLE
- FOR home or office
- toeal baby sitter or SICK ROOM WATCHER


Net 11.76

## Specially Priced At 12.50

## Compret

Here is o FAMOUS-MAKE 2-stotion electronic intercom PRICED SO LOW WE DARE NOT MENTION THE MANUFACTURER'S NAME. Sensifive-picks up sounds from ocross the room. Boousifully styled $t 0$ groce ony home or office. Moster station hos volume control ond folk-lispen switch. Remote is olwoys "open." moking if ideol for tistening to baby, sick room, invalids, chitdren of ploy-or for store to sfockroom, restouront to kitchon, ete. Alnico 5 pm speokers. Costs less thon o penny o doy to operoie Com. plete system inctudes Moster. Remote ond $50^{\circ}$ coble. Simple to operate, eosy to install -virtually foolproof. Size of eoch stotion opproximotaly $8^{\prime \prime} \times 4^{\prime \prime} 4^{\prime \prime}$. Shpg wi ${ }^{\prime \prime}$ install

PA-12 2 Stotion Intercom System Complete ............................................... 12.50

FANON TWIN 2-STATION INTERCOM
Ideol os o "boby-sitter". Provides modern com munication between offices, departments, living quorters, efc. Remote hos "folk-listen" switch for privocy where required. Moster unit has volume contral, on/off switch, seporate press-fo-tolk switch and pilat light. Cabinots of grey steol with perforated white front ponel. Sire of each sto tion, $8^{\prime \prime} \times 4^{\prime \prime} \times 4^{\prime \prime}$. Shpg. wh., 6 lbs .
PA-208 Fonon FX-2
PA-209 Fonon FS (emfra Remoio). Shofet 18.37 WR.


FANFARE MUSI-TALK SYSTEMS


MC


BC


B D

MC Moster Control Stotion With Rodio Delune home rodio intercom Moster Control. All the feapurios of a lop notch intercom plus o powerful built-in rodio. Will confrol up to 6 remotes. Complete with Ploster box for woll mounting. $111 / 3 \times 7 / 4$. Shpg. wi..
PA. 195 Moster Conirol with Rodio
Nel 54.00
MCL Master Contral
Some as MC except less rodio, but with bullf-in phono jock. Lets you ploy records through your infercom. Sire: $111 / 3 \times 71 / 4$. Shpg. wh., 6 lbs.
PA. 196 Master Control less Rodio ...................50 Down ...... Net 36.00
BC Flush Woll mount remote for indoor use. Shpg. wf. I ib
PA.
Net 6.75
B. Some os BC except with phono jock

Net 9.60
BD Flush Woll Mount remole, for ouldoor use
PA. 199 Shpg. wt. 11
BDR Flush
Net 5.97
BDR Flush Woll Mount remote, for ouldoor use, with boll button. Shpg. wi., 1 ib.
PA. 200 PA. 200

Nel 7.50
P8 ploster bon for use with BC, BD, BDR, BJ cemotes
PA-201 Shpg. wt., y/i Ib
DD Desk top Cobinet for MC ond MCI. Shpg. wt., 2 lbs.
PA. 202
WIRING REQUIREMENTS
.Net 1.50

WR-115 3 cord wire leod for eoch remote used.

## MASCO EXPANDABLE WIRELESS INTERCOM SET

## - USES existing power lines

- No wires or connecting cables


Becouse no interconnecting cobles ore used, the WIRELESS.COM is completely flexible; you con move 11 ot ony time to o new locotion-lust olug into AC ouflef. Hos nolse siloncing contral for use in noisy locotions. Hos volume control with on-off power switch, folk-listen switch with dictote position. Alnico $V$ speoker. Comple:e privacy, no sounds tronsmitted until moster stotion is in tolk pasition. Hondsomely styled metol
 PA-216 Sot of 2 stotions........Masco stic station..... 5.00 Down......... Net 32.00

## A. 217 Additionol single stotion for obove. Shog. wi., 5 Ibs. Not 16.00

## FANON 2-STATION <br> WIRELESS INTERCOM <br> \section*{- NO WIRES}

## - NO INSTALIATION

- JUST PLUG IN AND TALK


Mokes use of existing power lings for tronsmission of voice. Eoch unit is o miniofure rodio tronsmitter ond receiver. Simply plug into electricol outleis, $A C O^{\circ} D C$, th the some or odiocent buildings on the some Dower circuits, ond foltl Economicol to use, powerful and sensitive. Underwrifers' Laborotories opproval means sofefy to use. Each unit has volume control with on-off swifch, 2- or 3-wire itne selector swifch for different tyoes of building wiring, ond odiusiment for Noise Silencer which keeps out power line noise unsil desired voice signal comes through. More stolions moy be odded to ony system. Operoting frequency 200 kc . Outpul powefi $21 / 2$ wotts. Power con sumplion: 30 wolfs. Tubes: $12 A X 7,2-50 C S, 2$ l2AU6 rectifier, IN5I diode. NE-2 neon pilot light. For 105.125 volis $A C$ or DC. Size: $8^{\prime \prime} \times 4^{\prime \prime} \times 4^{\prime \prime}$. All bross finish PA-206 fonon FW. 502 stotion wireless. Shpg. wi. . 7 Ibs...... 5.26 Down..... Met 52.62 PA. 207 Fonon FW. 51 Expro Stotion For FW-50. 5hpg. wf., $31 / 2 \mathrm{lbs}$. No......N 26.31

## FANON MULTI STATION INTERMIX INTERCOM

Used where up po 12 spopions oro re
quired, Moster con coll ony remope. Re
quired. Moster con coll ony remote. Re-
mole can anly coll Master. FC remote mole can anly coll Master. FC remote
hos palk switch and can coll master
 only. On privote operotion, remote must depress swlich to tolk. The FC. 6 Remote con be connected to UP to 6 different Mosters. The FIM-12 Moster hos o volume control spring-refurn Tolk-listen switch with "Dictote" posifion for extended polking, Moster power output is $21 / 3$ wotts. Tubes are $12 \mathrm{AUG}, 50 \mathrm{C} 5,35 \mathrm{~W} 4$ rectifler, NE-2 Pilot Light. Hum and noise are extremely low. For 117 volts $A C$ or $D C$. All units are constructed of unbreakoble sheet metot. Dimensions: Mosters and Remotes, $8^{\prime \prime} \times 4^{\prime \prime} \times 4^{\prime \prime}$. Shpe. wh., Mosfer: 4 tbs. Remote $21 / 1 \mathrm{Ib}$.
PA- 203 FANON FIM- 12 MASTER
PA. 204 FANON FC REMOTE .....
Net 26.43
PA. 205 FANON FC. 6 REMOTE
Nef 7.81
Wire Requirements
Run moster to moster coble seporctely, using WR-119 os above. Use Alpho 1243 coble from eoch FC remore to its moster; use a seporote length of Alpho 1243 from each FC. 6 remole fo each Moster.
WR-1 19 I wire shielded.
WR-119 1 wire shielded. Shpg. wh., I Ib. per $100^{\circ}$
...Net (Der $100^{\circ}$ ) 3.35
Alpha 1243 3-wife with 1 wire shielded. Shpg. wi., 3 lbs. per $100^{\circ}$.
Nof (per 100 ') 5.03

## NEW!

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 Public Adoress Amplifiens
## all lafayette amplifiers are guaranteed FOR ONE FULL YEAR

## LAFAYETTE MODEL PA-60 <br> 10-WATT P.A. AMPLIFIER

## FEATIRES: Provides extensive coveroge-up so 20,000

 squore feet when used with frumpet speakers. For store demonstrotions, clubs, churches, offices, closs. rooms, ouction soles, ontertoinment. Incorporotes lotestcircuif features for improved performonco. Seporote circuit features for improved perfermonce. Seporore
volume controls permil mixing microphone ond phono. 2 speoker output sockets. Cabinel is fintished in boked hommerlold enomel.
SPECIFICATIONS: TUBES: 12AX7. SL6GB; 6XSGT (Rectifier). PEAK POWER: 12 Wots. INPUT GAIN: (Rectifier). PEAK POWER: 12 Wots. INPUT GAIN:
Microphone $105 \mathrm{db} 2.2 \mathrm{Meg.}$, Phono $65 \mathrm{db} 1 / 2 \mathrm{Meg}$.

## LAFAYETTE MODEL PA-61

## FEATURES: New improved circult feotures ensure top

 performance. Uses new GVBGT hi-fi oulpul lubes and designed to give wide ronge response. Meets power industrial plonts. Covers up to 50,000 sauore fents and industriol plonts. Covers up to 50,000 squore feet when used with trumpel type speokers. Chossis equipped with 2-speoker output sockets. Housed in well ventiloted cose of all steel construction, Lorge instrument typeconirol knobs. Cobinet is finished in boked hommerloid conirol
SPECIFICATIONS: TUBES: $2.12 A \times 7,2.6 V 6 G T$, BAX5G (Rechifier). INPUT GAIN: Microphone 120 db 3.3 Meg. Phono $80 \mathrm{db} 1 / 8$ Meg. FREQUENCY RESPONSE: $\pm 2 \mathrm{db}$ from $30-15.000 \mathrm{cps}$. TONE CONTROLS: Boss 4.15 db of 50 cps ; Treble $\pm$ is db of 10.000 cps
POWER OUTPUT: 18 Wolfs. INPUTS: 2: I-Micro

## LAFAYETTE MODEL PA-62

## FEATURES: Ideol for use in churches, schools, small theopers. lecture holls ond industrial plonis. Priced es

 fremely low to give extro profits io rentols ond soles. Separate boss ond treble tone contrals. permits odiustments to meet all acoustic requirements. Twa mike inputs optional 4 -speed pheno top. 70 volt constont volloge output top. Provides coveroge up to 100,000 squore feet whon used with trumpel type speokers, Chassis Unit is housed in sturdy sleel woin output sock. cobinet. Modern streomlined stylling. Finished in boked hommerloid enomel. Removable escutcheon plote for rock and ponel mounting.SPECIFICATIONS: TUBES: $3.12 A \times 7,2.6 L 6 G 8 ;$ SY3GT (Rectifier). POWER OUTPUT: $30^{\prime}$ Wolts. IN. PUT GAIN: Microphone 125 db 3.3 Meg., Phono 82 db $1 / 2$ Mee. FREQUENCY RESPONSE: 30 io 15.000 cDs ,

## LAFAYETTE MODEL PA-63

FEATURES: Conservotively roled for long life in con finvous operotion. Uses populor high fidelity high power fubst trpe GCAZ/EL34, ond hos exiremely wide boss and treble tone controls. Modern streomlined styling. Input for mognetic phone cortridge. For lorge styling. Input for mognefic phane cortridge. For large
industrial paging and music systems, stadiums, amuse. ment porks, airports, rallrood yards, church carllion systems. For groups of up to 10,000 persons or oreas SPECIFICATIONS. TUBES
EL34: 2.5UAGB (Recilfiers). POWER OUTPUT: $2.6 C A 7$ NPUT GAIN AND IMPEDANCES: db 4.7 Meg.. Phono $80 \mathrm{db} 1 / 8$ Meg. FREQUENCY RESPONSE: $30-15.000 \mathrm{cps}+1$ db. TONE CON. TROLS: Boss tuM 15 db of 50 cps; Treble -1 is db of $10,000 \mathrm{cDs}$. HUM LEVEL: 70 db below rafed outpul.
INPUTS: 2-Microphone. 1.Phonograph. CONTROLS:
MODEL PA-64 - 30-WATT MOBILE P.A. AMPLIFIER GV OR $12 V$ gattery and llov ac operation separate bass and treble controls FEATURES: A high-power combinotion 6 or 12 volf DC battery ond 117 v . AC amplifier for saund trucks, cir. beoches, porks, bools, planes, ar ony lorge indoor or outdoer gatherings. DC, to AC operotion is occomplished by chonging "plug-in" power cobles, 6 or 12 volt DC aperotion is selected by a switch on top of chassis. Seporate boss and treble controls, each hoving basst of attenuotion. for proper ocoustic correction. Phono motor ottenuotion. for proper ocousfic correclion. Phono motor
operates on all power sourses. Standby swich for bot. fery economy. Avolloble with optionol 4 -speed phono tery economy. Avolloble with optiono
top. Botlery and AC cobles supplied.
SPECIFICATIONS: TUBES: 3.12AX7, 2.6L6GB and 2.6XSGT (Rectifiers). HEAVY DUTY VIBRATOR. POWER OUTPUT: 30 walls. INPUTS: 4; 2-Micro 2hone and 2.Phono. INPUT GAIN: Microphane 125 deSPONSE: Phono 80 db .5 Meg. FREQUENCY of SO CPS. TREBLE: +15 db at 10.000 cp . dU . db Of SO CPs. TREBLE: + is db at 10.000 cps. HUM

FREQUENCY RESPONSE: 70 Ho $10,000 \mathrm{CD} \pm 2 \mathrm{db}$.
TONE CONTROL ATTENUATION: TONE CONTROL ATTENUATION: Treble is do of 10,000 cps. CONTROLS: 4; mile Power Phono or Rodio Tone. INPUTS: 2: 1-Mirrophone ond 1.Phono. OUTPUT IMPEDANCES: 4. 8,16 ohms ond 70 volis (500 ohms). HUM AND NOISE: 60 db below morl mum oulput. POWER CONSUMPTION: 70 Wotts $110 / 120$ V.A.C. 60 cPs. SIZE: $101 /{ }^{\prime \prime} \times 51 / n^{\prime \prime}$ d $6^{\prime \prime} \mathrm{h}$. SHIPPJNG WEIGHT: $121 / 2 \mathrm{lbs}$.
LAFAYETTE MODEL PA-60W -Complete with
TUbes......................................................... 24.95

## 18-WATT P.A. AMPLIFIER

 phone and 1-Phono. OUTPUT IMPEDANCES: 4, 8 and 18 ohmss 70 volts ( 333 nhms). HUN LEVEL: - 70 db below roted oulpul. CONTROLS: 5; Microphone on-off, Boss, Troble, Phono. POWER CONSUMPTION75 Wotls, $110 / 120$ Y. A.
 $8^{\prime \prime} d^{\prime \prime} 6^{\prime \prime}$ h. SHIPPING WEPGHT: 19 lbs. LAFAYETTE MODEL PA.61WX -Complele with Tubes.. Nel 37.50

## 4-SPEED PHONO TOP

peeds- 78 omplifier. Fits in ploce of cover. Ploys ofl speeds-78, 45, $331 / \mathrm{s}$ and $16 \% / \mathrm{RPM}$. Hos constont 4. weed molor, with lurnover cortridge, complete with iwo precious metol needies. Hos orm-rell and plug con necrion; for 117 volts, 60 cycle. Shpg. wi. 10 lbs. PA. 65 w -4 .Speed Phono Top..................Net 16.95

30-WATT P.A. AMPLIFIER Lps: Treble $\pm$ IS db of 10,000 cps. HUM LEVEL: 70
dt below roted output. INPUTS: 3; 2-Microehene 1.Phono. CONTROLS: 6; Mikrophone-1, Microohone-? onooff, Boss, Treble, Phono. OUTPUT IMPEDANCES: 4 , 8,16 , ond 250 ohms: 70 volts CONSUMPTION: 135 Woits, $110 / 120$ V.A.C. 50.60
 WEIGHT: 20 lb
LAFAYETTE MODEL PA. $\mathbf{S} 2 \mathrm{wx}$-Complele with Tuber

## 4.SPEED PHONO TOP

For obcve omplifier. Fits in ploce of cover. Ploys oll speeds $-16 \frac{1}{2}, 331 / 3$. 45 ond 78 rpm . Has conslont 4 speed motor, with furnover corrtidge. complete with two presious metal needies. Hos ormirost ond plug can nection; for 110 Volt 60 cycle. Shpg. wf.. 10 tbs.
PA. 65 W - Speed Phono Top



 consumprion: 230 molm: $110 / 120$ valks 60 (08)

Lafayete model pabswx E MODEL PA-63WX Comolete with os 4-SPEED PHONO TOP
For PA. 63 amplifier. Fiss in place of cover. Plays oll siondard speeds- $16 \frac{1}{3}, 331 / \mathrm{s}, 45$ and 78 rpm . Con stont speed mofor, lurnover cortridge with dual precious metol styfi. With orm rest, AC cord and plus, output coble and plug. For $110 / 120$ volls, $60 \mathrm{cDs} A C$. Shpe PA. $66 \mathrm{~W}-$ S. Speed phone Top
T MOBILE 18.95
P.A. AMPLIFIER

Microphone-1; Microphone-2; Phono: Boss, Treble; Power aff-on for $D C$; Combinotion off.on for $A C$ and

 ond 70 , woll ine powe consumprions, 130
 oinery io do silp ing wichir 25 bo.
LAAAYETTE MODEL PA. 64 WX - Amolfice com Diet with Tubert Nat

## 4-SPEED PHONO TOP

For the PA. 64 omplifier. Fiti in place of cover. Plays all 4 stondord speeds- $16 \%, 331 / 3,45$ and 78 rpm , Constont speed motor, furnover ceramic cortridge with dual precious-metal styli, With orm.rest, AC card and plug, oulput cable and plug. Shpg. wi., 10 lbs
91.50 LESS Phono top

ONLV 9.15 DOWN -9.00 MONTMLV

# LaFAYETTE PUBLIC ADDRESS SYSTEMS 

FOR GREATEST ECONOMY \& PERFORMANCE

## DUAL SPEAKER

## 18-WATT PORTABLE SYSTEMS


as Low as 71.50


E-V 7275 CIYSTAL
MIKE

## THLY <br> 7.15 DOWN, 8.00 MONTHLY

- CHOICE OF 3-WAY LAVALIER OR DESK-STAND CRYSTAL MIKES
- HEAVY OUTY 12 " SPEAKERS - AVAILABLE WITH 4-SPEED PHONO TOP complore 18 -wofl Ouot Speoker theouy duty 12 PM Speakers) Portoble Syssem. that beols all competition. Ideol for lectures, ouctions, tavems, orchestras; ascellent os a rentol system
AND DONT FORGET LAFAYETEE'S MONEY-BACK GUARANTEE: II YOU don't ogree thot bolovelfe's Sound System meets overy claim we moke for it - send it bock - onytime within 15 doys - ond lafoyette will refund every penny - less COMPLETE PORTABLE SYSTEMS, READY TO OPERATE, INCLUDE: 2.12" heavy duty PM Speakers rated af is watts eash the fealure posked 18 -wott Model PA. 61 amplifier; Your cholce of the pepular Electro-Voice Model 7275 crystol mite completo with dest stond and $5^{\circ}$ coble. detochoble from sland for use as a hand mike, with floor-stand coupler and on-of swith-ar the lofayette Model PA. 31 high impedance slim erystol micraphone with $7^{\circ}$ coble ond connector, removable swivet-type stond odopter, lavalier cord and brochet, and on-off switch, 2:35 speaker cobles ond plugs: plus the famous Allos MS.10C mithe floor stand. Porsoble carrying cose mounls the system conveniently for carrying and for use, covered
 volts, 60 cps $A C$ operation. Shps. Wt., 65 lbs. (All systems avoiloble with ony other microphone at odditional cost. For other mikes, see miko pages in inder). LAFAYETTE PA-132WX 18 -woll Porloble System, less Phono Tap, complete os LAfarcribed with E-V 7275 microphone ................................. LarA Lafaretre PA-134WX Same os obove, with 4-speed phono lop and E-v 7275 mike. Shpg. Wr., 75 lbs. ............................................................... 92.50 LAFAYETTE PA-13SWX Same, with 4-speed phano top and lofayette PA- 31 mike. Shpg. wr.. 75 lbs.

Not 87.50


- CHOICE OF CRYSTAL 3-WAY LAVALIER OR DESK-STANO MIKES - TWO HEAVY-DUTY $12^{\circ}$ SPEAKERS - TWO POLISHED WALNUT WALL BAFFLES

Excellont for a great mony public oddress, paging ond sound reinforsement opplico ions, the lofoyette 18 -woft permonent system is on enceptionol volue. Speoker and paging horns moy be odded for wider orea coverage or for multiple smoll oreas uch os offices. loading plottorms or slockrooms. Eosy to instoll in smoll donce halts or dance studios, school oudiforiums, Sundoy school rooms, mission meetin holts or gymnosiums. Provides excellent coverage for audiences up to 2000 or reos up to 12,000 squore ft. THE AMPLIFIER IS UNCONDITIONAIIY GUAR ANTEED FOR ONE FULL YEAR
THE COMPLETE PERMANENT SYSTEMS INCLUDE: One 18 -woll Model PA 61 omplifier, complete with iubes; $2-12^{\prime \prime}$ heavy duty PM 15 -wolt speokers; 2.35 fl . peoker cables and plugs; 2 polished walnul wooden woll bofles; your choice of lther the Electro-Voice 727 S Crystal mierophone complete with detochoble desh stand for desk, table lop or hand use, and with on-ofl switch, or the lafoyelte Model PA. 31 slim crystal mike with on ooff switch, lovalier card ond brocket and comptete with $7^{\prime}$ coble and connectoz ond removoble swivel-type stond odoptar: you also get the popular Allos MS-10C mike floor stand for o complete, convenien public oddress "porkoge". For $110-130$ volls, 60 cps AC use. Shpg. wi., 57 lbs. LAFAYETYE PA-136WX 18 -walt Permonent Syitem, less Phono Iop, complete as described with E.V 7275 microphone Net 70.50
CAFAYETTE PA-137WX Some or obove, with Lofoyetle PA-31 Microphone.
Nel 68.50 Net 86.50 LAFAYETTE PA- 139 WX Some, with 4 -speed phono top ond taforette PA-31 mike.


- COMPLETE PERMANENT SYSTEM
- CHOICE OF CRYSTAL OR DYNAMIC MIKE
- AMPLIFIER HAS LAFAYETTE'S MONEY-BACK GUARANTEE

High quality, low coss systom engineered for smoller permonent instollotlons. For areas up $10 \$ 500$ s0. \$1. For office, store, garage, smoll foctory paging and music systems. THE COMPLETE SYSTEMS INCLUDE: The new Lotovelte Model PA. 60 10 .woll omplifier complete; your choice of cither the Electro-Voice 727 crystal microphone complete with detochoble desk stond and $5^{\circ}$ cable - or the new fofoyette Model PA-29 weotherproof, blasp-proof slim dynomis mike completo with high or low impedance selector switch and defachable swivel-trpe stond adoptor: $8^{\circ \prime}$ heavy duty PM speaker; $35^{\prime \prime}$ specker coble and plug: and oftroctive polished wolnut speoker wall bome. For 110.120 volts, $60 \mathrm{cps} A C$ operotion. Shpg, wt., 25 lbs. (Any other microphone moy be substituted in all systems of additionol cost. See microohones in inder).
E-V 727 Crystal Microphone 10 -wolt Permanent System as described with LAFAYETE PA-14iWX Some os obove, with tafoyelte PA. 29 duol impedonce dynomic microphone. Shog. wt., 24 lbs.

## LAFAYETTE roogumen PUBLIC ADDRESS SYSTEMS



- Choice of deluxe ornamic mikes
- TWO GE 25-WATT SPEAKERS - MONEY-BACK GUARANTEE

The 30 -wat system is ane of aur mast popular models. Large enovgh for the molority of sound system opplicotions - used in thousands af school ouditariums, churches, theotres, dance holls, donce spudias and lecture halls. The ideal system for rentols; these systom: hove been wold to many hundreds of deolers.
AND IEMEMAE OU MONEY-BACK GUAKANTEE AND OUR LOW, LOW MICEI DUAL SPEAKEL 3O-WATT PORTABLE SYSTEMS INCLUDE: TH OUPstonding feoture-Alled Laloyette Madel PA-82 30 -wott omplifer; 2-GE 25 -wot PM speokers; 2-35' speoker cables ond plugs; your choice of the populor Argonne AR-3 All-purpose Dynomic dual-impedance mitrophone for hond-held, desk stand or hoor stond use, with removable boll-joint desk stand and foor stond odopter and $8^{\circ}$ cablet or the deluxe dual-impedance Electro-Voice 664 Cordioid dynomic for close-tolking use where high-feedbock problems exisp, with 40-15,000 cps response, on-afi switch ond $18^{\circ}$ cable; the fomous Allos MS.10C foor mike stond; and the hondsomely designed split-type portable corrying cese covered in high quality dork blue leatheretto. Sire of case $22 \frac{1}{3} \mathrm{~h} \times 16 \frac{1}{2} \mathrm{w} \times 15^{\mathrm{w}} \mathrm{d}$ - pre vides a secure ploce for the syitem components. For 110.130 volts, 60 cps AC operation. Shpe. Wr., 75 lbs . less phono; with phono 85 lbs
LAF PA-142 WX. 30-wat Portable; systom, Iess Phano Top ond lass MS.10C floon stond, completo as described with Argonne AR-3 dynamic mike...Net 105.00 LAF PA.I 43 WX Same os above. with E.V 664 dynamic microphone ond MS. IOC hoor mike stond LAF PA-144 WX Some os PA- 142 with 4 -speed phono top. Not 124.50 LAF PA-145 WX Some as PA.143 with 4-speed phono top Net 140.50

## DUAL SPEAKER



- CHOICE OF DELUXE DYNAMIC MIKES - 70 FT OF SPEAKER CABLE - 2-GE 25-WATT SPEAKERS E WALL BAFFLES FOR INDOOR SYSTEMS - 2 ELECTRO-VOICE OR UNIVERSITY HORNS FOR OUTDOOR SYSTEMS These permonent sound systems are especiolly designed for lorge holls, airperts, medium-sized industrial poging systems, looding plofforms, depertment store music and poging systems, restourant music, and railroed stotions. The heavy duty Model PA-62 30 -woth omplifier will give you exeeptional results ond ossures top quallity performonce under oll operating canditions. OUR LOW PRICE AND OUR ONE YEA GUARANTEE make this syitem o "best buy" in P.A. COMPLETE SYSTEMS CONSIST OF: The PA-62 30 -waft ampllfier cemplete, ovailoble with or without 4-speed phano top; choice of 2-GE 25-wat 12" PM speokers for indaor poging ond music distribution; or 2-Electra. Volce 848 CDP wide-ongle 30 -woti projectors or 2 -University MA- 25 drivers with MH trumpets for best nolse penctrotion, 2-35' speoker cobles ond oluges your sholce of the EloctrovVotce os4 duol.impedance cardioid dynomic microphone with on-off switch and 18 coble or the popular Arponne AR. 3 dual impedance dynomic with batl-ioint desk stond for hond-held desk or hoor stond use; the highly uselul Athas MS. 10 C foor mike stond; and for the indoor systoms, 2 wood wall bompa hondsemely finithed in mike stond; ond, for the indoor systoms, 2 wood wall bomes hondsomely inithod in


## 30-WATT PERMANENT INDOOR SYSTEMS

LAFA.146 WX Conslsts of PA.62 30-wott omplifer less phono top, 2-GE 12" pm spookers, 2 walnut wood bames, 2-35' spoker cobies ond plugs. MS.10C foor mike stand ond Argonne AR-3 microphone..................................................Not 103.00 LAP PA-147 WX Some, with E.V 644 mike in ploce of AR.3...............Net 124.50 LAP PA-148 WX Some, with 4-speed phonogroph top ond AR-3 mike... Net 119.00 LAP PA-149 WX Some, with 4-speed phono top ond E-V 664 mike........Net 139.30 30-WATT OUTDOOR SYSTEMS
LAFPA-I50 WX Consists of PA 62 30.wott amplifiter less phono top, 2-University MA-25 driver units and 2-PH trumpets, 2-35' speaker cables and plugs, and Argonne AR- 3 drnomic mike with desk stond. 65 lbs . less phono; with phono 75 lbs . Net 126.90 LAF PA-ISIWX Same, with E-V 664 mike and MS.IOC hoor stond......Net is4.90 1AFPA-152 WX Some, with 2-Elestro-Voice 848 CDP 30 -wott projectors ond AR-3 mike; less phone top and hoar stond...................................................................Net 127.50 LAF PA-IS3 WX Same as PA. 152 but with E.V 664 milke ond MS-10C hoor spand LAF PA-154 WX Some os PA-150 but with 4-speed ohono pop..............Net 156.50 LAF PA-15s WX Some os PA-151 but with 4 -speed phono top.............Net 189.90 LAF A. 157 WX Some as PA. 152 but with 4-speed phono top Net 169.50

## 30-WATT MOBILE OUTDOOR SYSTEMS

- FOR 6V-12V BATTERY, $117 V$ AC
- WITH OR WITHOUT 4-SPEED PHONO TOP
- CHOICE OF EITHER OF 2 LAVALIEN MIKES

COMPLETE MOEILE SYSTEMS INCLUDE: The Lofoyetfe Model PA. 64 30-wafl moblle omplifier completey a set of AC and boltery cobles; your shole of 2 - Universily MA-25 driver units and PH reflez trumpens or 2-Electro-Voice 848 CDP 30 -woth compound difrection profector wide-ongle horns; your cholse of the lafayette PA. 31 wide.range crystal microphone with on-of swheh, lavalier cord and bracket and 7 ' coble and connector, and with swival-type mike stand odepter, for chesp, hand-hald or stand useor, the delune Electro-Voice 647 lavalier dynomic mike with neck cord, support ctips and $18^{\prime}$ coble, for chest, hond or desk use; PIUS 2-35' speoker cobles and plugs. Shog. wi., 75 lbs. less phono; with phono 85 ibs.
LAF CA-158 WX Complete 30 -wall moblle ouldoor system with PA-64 30 -wott mobile omplifier less phone top: with AC ond bottery cobles, 2-University MA-25 driver units and 2-MH trumpets, 2-35' speoker cobles and piugs, and Lofoyette PA- 31 microphone ...................................................................................................... 160.80
LA PA. 159 WX Some, with E.V 647 mike. Nef 189.90
LAP PA-180 WX Some os PA. 158 but with 2 E-V 848 CDP 30 -wot profectors

- 161 WX Same as PA. 159 but with 2 E.V 848 CDP projectort....Net 189.50

2 sound systems tor the price of 1 , with plenty of power for any job, whether mobite or indoor. Pravides caverage lor oreas wp to 100,000 savore feet. Operstes from ony 6 valt or 12 volf aufomobile, truck or bus storoge batlery or from $110-130$ volis 60 cycles AC: 30 wolts oufput. REMEMBE日: THE AMPIIFIER IS UNCONDITIONAIIY GUAKANIEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR I FULL YEAA
AND COMPARE OUR PAICEI

Nef 175.90 Net 201.90 Net 177.50 Net 202.30


UNIVERSITY MA. 25 DRIVERS WITH PH TRUMPETS


ELECTRO-VOICE 848CDP COMPOUND DIFFRACTION PROJECTORS WITH JO.WAIT DRIVERS

## AS LOW AS 184.50

### 18.45 DOWN 13.00 MONTHLY

This ruggedly-designed equipment is recommended for oll high power heour duty requiroments, such os shurch steeple systems, roilrood Yords, oirports ond
industriol pionts COMPLETE 80 WATT OUT-DOOR industriol plonts. COMPLETE $\infty 0$-WATH OUY-DOOR
SYSTEMS INCLUDE: The conservotively-roted Loloy. atte Model PA 6360 -walt omplifier compleie; your choice of 3 University Modet PH trumpets with ${ }^{3}$ Model MA. 25 driver units or 3 Electro-Voice 848 CDP Compound Diffroction Proiectors with 30 -wott drivers, your choice of the Electro-Voice 605 duroble high Output dynomis microphone with $18^{\circ}$ coble and with or the tofoyelle PA. 43 high impedonce dynomic mike with removoble swival-fype stond odopier, tolk switch with romovablo swivel-type stond odopior, tolk switch Shpg. wf., 100 lbs.less phona: 170 lbs . with phono. so-woll outdoor system, less phono top. complete os
 E. $V$ oOS microphone ond 428 foueh-to-foth stand LAFAYETfE PA. 160 WX Someor PA. 100 WX with PA. 4 J dynomiemite, less spane LAFAYETTE PA.167.WX Net 184.50 Some os PA. 160WX but with 3 Etectro-Voice 848 Some os PA. 166 Wh bul with ${ }^{3}$ Electro-Yoice 848 COP horns ond drivers. E.V 605 mike with dest sitnd
Net 202.50 LAFAYETTE PA. 168 WX
SOMO OSPA. 168 WX withPA. 13 drnamis mike, Iess stond LAFAYETTE PA-16\% Not 188.50 Some ospA-166 WX but with 4. speed phonogroph top LAFAYETTE PA.ITOWX NeP 213.50 Some os PA-167 WX but with 4. speed phono top LAFAYETTE PA.ITIWX Net T99.50 Some os PA-168WX but with 4. speed phone Nop
I PFAYETTE PA. 2172 WX Some of PA-169WX but with 4. speed phono top LAFAYETTE PA.173WX

## - afayette $\begin{gathered}\text { SPECIAL } \\ \text { VACUES! }\end{gathered}$

Economical desk stond. Chrome plated Economicol desk stond. Chrome plated
heavy cost bose Anlished in groy wrinkle. heovy cosp bose
$4 \%$ nnished in groy wrinkle. thread; odiustoble collor. Shps. Wt., 2 lbs. PA. 34
POPULAR MIKE CONNECTORS


Stondard single contacl cord mounted, nickel plated bross, knurl grips, $5 / \mathrm{m}^{\prime \prime}-27$ threod. Shpg. wt., 3 oz. M M .467 Femole connector MS.468 Mole connector

228
168
afarette
PA.43
OYNAMIC


- for public address, paging, music dis. TRBUTION USE BUILT IN TO-VOLT LINE MATCHING TRANSFORMER WITH TAPS FOR 10,5 $2.5,1.25$ AND . 625 WATTS BUILT-IN INDIVID. UAL VOLUME CONTROLS ONLY A SCREW. dRIVER NEEDED TO CONNECT SPEAKER LINES An 8-ohm speoker.boffle combination for ony type of indoor sound system. Perfect for schools, stores, offices, shurches, Eoch unit is complotely pre-wired. The heory-duly 8 " speoker with 4.64 or. Alnico Mognol roted af utily whlts, is instalised ocourtigned plywood boffle; the lifully sifled acoultcolir-designed direclly on the surdy matching tronsformar is mounied direcry on ohe $10 . \mathrm{s}$ worp-free speoker frome. Tronsformer tops ore 10, 2 h . Wor or wath, for connection to 70 voit amplifler output, and any individual speoker tops con be
shonged withoul the need to change fransformer conshonged withoul the need to change Pronsformer con
nections on remoining speokers of the P.A. sys:em. A nections on remoining speokers of the poard with screw terminols is provided of terminal boord with screw forminois oornections. Each speoker hos its own volume contral for setting valume levels os desired of each speaker locotion - extremely imporiont in most school, deportment store, etc. pag $1 \mathrm{ing}^{\prime \prime}$ or music distribution $\times 9.9 / 10^{\prime \prime} \mathrm{h} \equiv 6 \mathrm{sys}^{\prime \prime} \mathrm{d}$. Shpg. Wh ., 7 Jbs . PA.178W Speoker-Baffle Combinotion Nol 16.20 PA. 179 W Some unh1, 8 ohm voice coll, but less trons former

Not 13.95


## Lafayette

PORTABLE PA CASE

A sturdily constructed case for amplifier ond two 12 ppeakers. Made of heavy plywood with reinforced motol corners. Cose splits into 2 boffles, each with leother corrying handle. Strone wire mesh grilles covered with ottroctivo cloth. Has 2 hooks in eoch holf for carrying speoker cobles, and provision for mike and mike base. \& snop locks. In. side dimensions $201 / 2$ h, 15-9/1Aw, $14 \% / 4$ d. Covered in Jork blue woshoble leatherefre. Shpg. wi., 20 lbs.


LAFAYETTE PA.43
DYNAMIC MIKE OYNAMIC MIKE 60. WATT AMPLIFIER CHOICE OF MICROPHONES


LAFAYETTE 8* 10.WATT SPEAKER BAFFLE COMBINATIONS PRE-WIRED WITH MATCHING IRANSFORMER 8 VOLUME CONTROL
as Low as 169.50

### 16.95 DOWN 12.00 MONTHLY

 An ideol system for heovy-duty, high powered contin rlibution, ond for extra-large euditariums, schools churches, deportment stores, sirports, efc. Included in these systems ore 6 of the new lafoyette ple-wired speoker-balfle combinotions with 8 " heavy duty speakors roted af 10 watts each, prewired motching transformer for 70 volf line with tops for $10,5,2.5,1.25$ and .625 watts per speaker, and individual volume controls. A screwdriver is all you need io connect speoker llines. You son add more speokers, if you wish, of ony fime - up to 48 for o $1 \%$ wolt-per. peoker deportment stare or schoal installation. otc. In oddition you get the great new Loforette PA. 63 conservatively-roted 60 woll ompllfiar; your cholse of either the Electra-Voice Model b05 high outpul $d y$. nomis microphon with $18^{\prime}$ coble and with E.V 428 touch-to-tolk desk stond with dpdt switch or the well. known loforette PA-43 "Oyno-Slim" high ouppul dy. namic microphone with on-off switch, omni-directionol heod. "quictr-slip" swivel-type stond odopies, and plug.in coble. For 117 valts, 60 cDs AC. Shpg. wr.. 95 lbs.LAFAYETTE PA- 174 WX Complete 60 -wotl Indoar sve. tem os described, less phono top, with E.V 605 microm Net 192.50
phone ond 428 desk stond
LAFAYETE PA. 175 WX Some, with Lotovetle PA-43 LAFAYETTE PA-175 WX Some, with Lofayette PA. 43
"Oyno-Stlm" microphone, less stond Net 169.50

## PHONO TOP SYSTEMS

These systems ore identical to the obove but include - 4 speed phono top which becames an integrol part of the amplifier. Shps. wi., 105 lbs LAFAYETE PA. 176 WX Some of PA- 174 with tispeed phonograph top Not 208.50 LAFAYETTE PA-177WX Some os PA-175 with

## speed phono top <br> Net 184.50

## RECORD CHANGER SYSTEMS

These sysiems include o Colloro TSC. 740 4-speed record chonger and base in ploce of the phono lop. it is equipped with the GE Iriple-play cortridge with duot diomand and sopphire strli. Shpg $w t$., 115 lbs . PA-183WX Some os PA.174, but with Collaro ISC 710 changer with GE 4 G-052 cartridge ... 234.00 PA.184WX Some os PA-175 but with Colora isC 740 changer wlith GE 4 G.052 corlridge. 211.00

# LaFAYETTE SPECIAL ACCESSORIES 

## NEW AMPHIBIOUS FLASHLIGHT

### 2.95

Outstonding new oll purpose flashlight which is water proof and gos fight. Con be used under water or in the rain. Ideal for use in camping ond working oulside of light beom provided by two cells. Complete with nylon shoulder bond. Shpg. wi., I lb. F-4 34

# RECHARGEABLE FLASHLIGHT 



\author{

- needs no battery attractive \& durable <br> - EASY FLIP.ON SWITCH
}

This small tight worght flashlight fils cosily into the paim of your hand. Two-tone (orange and white) color makes on attractive oppearonce. Now concove gloss top spread out tight. Thls unit con be used in many household ap plications. Ideal for use in the car. The detachable end covers a pair of mole plugs by which the flashlight can be recharged. This feoture allows the unit to be used for benchwark or where single light souree is required in dork surrounding. Smooth flip-an switch permits vosy action. Complete with one reploceable Hghtbult. Meosure 4\%"" in length and $1 \mathrm{~K} \mathrm{~K}^{\prime \prime}$ diometer. Shps. wl., 4 oz

Powerful and versatile portable hond lamp Powerful and versatile portable hond lamp.
Operotes os a lomp, oflashing red beocon, or both. The floshing beocon moy be positioned uD or down. Seoled beom bulb keeps mirrored re. or down. Seoled beom bulb keeps mirrored re.
flector dust free. $4^{\prime \prime}$ chrome-olated steol lampflector dust tree. 4" chrome-plated steel lamphood. Chrome olated beacon arm fits snugly over hondle. 8 eocon flashes 60 times per min. ute. Steel weatherproof case with hinged cover
and snap coich. Operotes on one boltery. Shpg. and shap coseh. Opero
wt ., 3 tbs. Ihi 10.50 . Mi: 60 -
Eurgess No. F4H bottery Wt. 11/2 Ibs. Not 6.98

## IMMERSION HEATERS FOR HOME OR CAR

## HOME MODEL

- For 110 V AC-DC Ouflel

Simple to use. Just plug into ony $A C$ or $D C$ outlet ond ploce into woter. Sofe, afficient. Sheothed and seo.ed in nickel ploted bross. Nickrome alloy heoting alemont drows 300 wotts. Overoll length h. 3 Bes. 12

CAR MODEL

## Plugs Into Cigorette Lighter Outlet

A simple useful device for lighting o normally dork space on opening the door. Perfect for closets. Open door light goes ons close door, light goes out. With $g^{\prime}$ Cord and Plug, less bulb. Shpg. Wi., 8 oz.
EL-76

## Pocket Generator Flashlight

- NO BATTERIES-EVERI - ABWAYS READY TO OPERATE! The perfect pocket flashlight for home-car-or to carry with you. Plenty of bright light just by successive activation of generator level. No batteries to corrode or go dead. Balanced flywheel generator for ease of operation. Only 2 So $^{\prime \prime} \times 1$ " $11 / 2^{\prime \prime}$,
slips easily into pocket or purse. Never slips easily into pocket or purse. Never
wears out. Ideal for campers-louristsmotorists. Weighs only 6 ozs. Made in Germany
F-169 List 6.49 Shpg. wt. 1 ib. Net 3.79


## AUTOMATIC DOOR-LITE

 388. |2 for 1.09




The tomp of 100 uses. Perfect for potio, gorden, phoiogrophy, aftic, workshop, and window display. $10^{\prime \prime}$ oll oluminum tornish proof reflector mounted on double swivel clomp on bose. ©' rubber cov ared cord and rubber plug. Shpg. Wt., 2 lbs. H-18

## 18

MINUTE LAMP KIT

Now, you con moke a new lomp in minute with old boples, jors, vases, lugs, etc. No tools, drills, or wiring are needed. KII contoins o push through socket with 6 foot cord. 3 sizes of corks to fit most bottles ond lugs. Shps. Wi. 8.028.
EL.77

Net 1.18

Versotile fluorescent fixiture with clomp. on bose. Ideol for foctory benches, tobles ond drofting boords. Two bolts clomp bose securely to ony surfoce uD to 3" thick. Spring-controlled swivel foints and double arm oction permit easy manipulo. tion of flapure to give you light in any desired position. Arm extends $36^{\prime \prime}$. Uses two T8, 15.W. lomps. For 110.125 V ., 60 cycles AC. Shps. Wi., 10 lbs. Bronze finish.
FL-10-less lomps.................Net 14.66


Flexo oll purpose lomp. Cesigned to pro. vide odjustment to ony position or ongle ond slurdily constructed for o lifetime of service. No exposed wiring. Air Cooled Shode. Will stond up better under condilions of vibrotion. Moximum extensicn 34". Lomp swivels oround of bose and of shade and swivels of eoch joint for uni. versol odiustment to ony of countless dif. terent positions. Shade $51 / 3^{\prime \prime}$ in diometer, $6^{\prime \prime}$ deep. Switch on shode. Use stendord incondescent bulb. Clomp removoble for surfoce mounting. Shpo. wt., I Jbs. FL-16.

Portable Desk Model. Has oll the feotures of Model F . 10 except for the difference in the bose. Thls unit has o weighted bose with pen ond pencil grooves, for desks and pobles where serew clomp con. not be used. Shpg. wi., 23 tbs
Fl. 11 WX. less lomps ..............Net 21.28
 Replarement lamps for
FL-10 ond FL. 1 IWX
FL-201, T8.15 wolls ….........Net Eo. 72

## AMPLEX TROMBOLITE <br> 21.32

The firat bosically new lighting ideo in nearly 20 years. Trombollte's unique, improved reflector design provides full use proved reflector deslon provides full use of blended incandescent and fluorescent Ilght sources to give you $23 \%$ more light. Trombolite's glide oction odiusts reodily info ony one of a thousond dif. ferent positions. Comes complete with 60 Watt lomp and Circline daylight tube Attractively finished in executive grey Shpg. Wi., 8 Ibs.
h.19
R.19

Net 21.32

## NEW SPRAY CAN HANDLE



This single, yet functionol sproy gun handle solves the sproying problem. Mokes the job of spreying simple and oosy. Mointolns on even sproy, ond keeps honds cleon. Fits on the top of the con by snop-on oction. Converts Converts any ony sproy con to a sproy gun. Hondle can be aftoched sproy con to spray gun Snaps on or draffsmen, commercial ortists, home builders, servicemen oft in secends technicions, etc. Shpg. Wt., 4 oz
Assures even HD-298
opplicotion Nof Eo

## KRYLON ENAMEL \& PROTECTIVE SPRAYS

CLEAR ACRYLIC speay Krylon Crystal Acrytic Parmonent Spray coating seols the surfoce and protecti indofinitoly. High dioloctric strength ond weother.proofing quolities. A must for the servicemen. Shps. Wi., 16 oz. 1.27
p. 350 .................................it 1.27

## SPRAY ENAMELS

Provides o duroble cooting for wood, motol, leother, poper, etc. Dries in 3 minutes. Rust, fungus, chemicol resistont. Won't crack or peel. High dielectric atrength. Precision volue-non slogging. Specify color ond number. Shpg. Wi., \%/ lb . for 6 oz., $11 / 2$ lbs. for 16 ozs.

| STOCK NO. |  | Color |
| :---: | :---: | :---: |
| 16.20xs. | $60 \%$. |  |
| - | P.35 | Cleor |
| P. 352 |  | Matal Primer |
| P. 353 | P.354 | Aluminum |
| P-355 | P. 350 | Whito |
| P. 357 | P. 358 | Flot White |
| P-359 | -. 360 | Gloss 8lack |
| P-361 | -362 | Flat Black |
| P.363 | P-364 | Mach. Grey |
| P-365 | P-366 | Lt. Grey |
| P-367 | P-368 | Dove Grey |
| P-369 | P-370 | Gold |
| P-371 | P-372 | Yellow |
| P-373 | P-374 | Regol Blue |
| P-375 | P-37\% | Boby Blue |
| P-377 | P.378 | Hunter Green |
| P. 379 | P. 380 | Cherry Red |
| P.381 | P. 382 | Boby Pink |
| P-383 | P.384 | Copper |
| P-385 | - | O. D. Khaki |
| P-386 | - | Intl. Oronge |
| 162 oz . 11 |  |  |
| $\mathrm{c}_{\text {oz. oll }}$ |  | , ....Ne1 E0. . 64 |

NEWI GLO-BAITE KAYLON white surfoce quick oftention. Mokes ony -osier to woce vo to 4 times brighterblock light Fior Gives neon effect lisploy men, hum. for do-it-yourselfers, disploy boot morting, etc. Uso on fishing lures, signs, disolays, life preservers parsend P-388 ore mode spec. M1L.P. 21600 (AER). Used for oircroft wing Hp and rudder morkings. Push button can. Shpg. Wi., $1 \mathrm{y}, \mathrm{lbs}$.

STOCK NO

| STOCN | Oto |
| :---: | :---: |
| P-387 | Red Oronse- $\mathbf{\$ 3}$ |
| P-388 | Yellow Orange-634 |
| P. 389 | Sunset Gold |
| P. 390 | Lemon Yellow |
| P-391 | Coriso |
| P. 392 | Greon |

## ZINC CHROMATE METAL PRIME

 Spec. M11-P.8889-A. Provides excelient bond an bore metol surfaces. Sproys on 3 moothly to hand finish. 16 oz. con. Shpg. Wh., $1 / 1 / \mathrm{lbs}$-393. Yellow $1 / 2$ lbs.
P-394. Green
Not Eo. 1.27 HEANER . .........Net Eo. 1.27 For cleoning engines, mochinery, fons, greasy floors, otc. Dissolves deposits which moy then be rinsed owoy. 16 oz . dispenser. Shpg. W4., $11 / 2$ lbs.
P. 395

## RUST RELEASE

Provides unusuol penefrating and solvent properties to free tight meshonicol unlons or "frosen" paris coused by corro. slon, gum residue, olc. Lubricotes os it penetrates 16 az . dispenser. Shpo. Wi., $11 / 2 \mathrm{lbs}$

## ROTATORS - BOOSTERS - CONVERTERS



T-12 (1 2)-Manually aperated with direction indicatar. Needle indicotes position of antenna an control panel. Mas clockwise and counterclockwise revalution. Highly styled decarotor case. Size: Ropator $71 / 4 " \times 51 / 4 " \times 8^{\prime \prime}$. Conirol Case $61 / 3^{\prime \prime} \times$ $21 / 2^{\prime \prime}=41 / 3^{\prime \prime}$. Operates on $110 \mathrm{~V} 60 \mathrm{cps} A C$ of 30 watts. Shipg. wi., 12 lbs . TL-72W - List Price 37.68

Net 24.92
Madel K-22 (1 \& 4)-Economy model-Provides positive instant finger lip coniro of rotation. Push an ane end af bar and ontenna turns clockwise. Push down on other end and antenne turns counterclockwise. Center dise automatic signal light indicates when Itmit of travel in either direction has been reoched. Size: Rototor $73 / /^{" 4}=51 / 4^{\text {" }}$ $\times 8^{\circ \prime}$. Cose: $5^{\prime \prime} \times 5^{\prime \prime} \times 4^{\circ \prime}$. Shpg, wi., 12 lbs.
TC.73W - list Price 26.95
Net 19.82
TBE THRUST BEARING BRACKET increases stress capocity of Tenno-Rotars up to 300 lbs. Withstands winds up to 90 M.P.M. Prevents buckting and bending. Shipg. Wh., 3 lbs. TL.74 - List Price 4.05



## NEWI JERROLD AMPLIFIEL TV-FM HOME SYSTEM

- high output, noise fre amplifier
- all vhf chanmels, iv e fm reception
- solderless, screw installation
- high isolafion between receivers

A completely new innovation in supplying tetevision and FM signols to a number of receivers lacated anywhere in the home. A low nolse, high-output omplifiet permits clear reception of VHF television and FM radia slgnals-in both fringe and metro. politon areas-and distribules the signals throughout the home over regular twin lead. AM receplion can be inctuded by utilizing one side of the distribution wiring as an AM ontenna. Connection to the twin-lead is occompllshed by a speciol top unit that prevents interference between the recoivers. The top is designed for either flush or surface mounting and can be eosily otteched to baseboords or walls, Quick-disconnect plugs ore supplied for connecting each recelver to ony of the tops. This allows ony receiver to be moved from room to room. The plug connot be inserted into standard home AC ouflets. The complete iystem is engineered for match to eliminote ghosting and smeoring condifions, designed for simple and rapid installotion... the only tool needed for complefo installotion is a screwdriver... no soldering is required. Home sritem kit contains all nacestary liems for complete installation-1. Home Amp. \#HSA-46; 5-home outlefs \#HSA.140 12 -twin leod insulators \#HS.36 and $100^{\circ}$ of iwin lead and 12-press on plugs. Shpg. Wh., 7 lbs.
TL.90 COMPLETE HOME SYSTEM KIT - List Price 67.75
Nel 49.98
TL.91 AMPLIFIER - Shpg. Wi.. 4 lbs. - Lisi Price 40.95 Ne................. Net 33.10
FLUSH OUTLET-Contains all items necessory for flush installation in o plasfic outlet boz or opening in woll or baseboord. Shpa. wl., 1 ib
TL. 92 - List Price 2.75

| Net 1.65 |
| :--- | ---: |
| Net |

## FM RANGE EXTENDER



406A-FM - Full FM Bandwidth with High R.F. Output

- Increases Antenna Signal 18 Times The "FM RANGE EX. TENDER" is connected between FM receiver or funer and antenna. Provisions for 75 or 300 ohm antenna inpuls. Frequency response is $\pm$ db ocress 20 megacycle bandwidth. Uses twa tubes which enables pre-omp to achieve undistorted output of 0.5 volts RMS. undistorted output of 0.5 volts RMS.
Operater from own internal 117 volt sup. ply. Tubes $1.68 \mathrm{C7A}$, 1.6 CB , Ut op. proved. Shpg. Wt.. ibs. Th-9.4 7.75 - ist 64.25 . Net 38.55 T. 375 -A 75 to 300 ohm impedance matching tronsformer for use with thase funers which have a 300 ohm input ond hre to bo coupled to the 406A.FM which hos 075 ahm autput. Shpe. Wh. I Ib.
TL-95-Ust Price 4.95..-...........Net 2.91


## BLONDER - TONGUE UHF CONVERTER



The only converter with 3 section tuner for "Class $A$ " signal oreos with these ex. clusive features. Tuned inpul tracks with oscillatar, rejects spurious signaks, suppresses oscillatar radiotion. Precise im. pedance match gives maximum signal conversion - no line ghosts - no picture $s$ mear. Driff-free performonce is achieved by use of o thermolly compensoted oscil. lotor circult. One knob tunings no VMF lotor circuit. One knob tuningy no VMF
chonnel switchlng: autput on chonnel 4 , 5, or 6. Complete with tubes and Instruc. tlons. Shpe. wi., 4 tbs.
Tt. 100 - List Price 22.05

## RMS ROTOR QUEEN

Here is a rotator that is englineered with out-tanding qualliy features, hut whout any funcy don-riad to add to cost. Weather sealed all mulnhtum housinx with
 unit. Fult $370^{\circ}$ rotation in each directlon whith libstant braking for plipolint arcurary. Direct Rear driwe for
 morts anit faypole fype bince for easy installutlou.
 TL.8ow Wriru ratile for alone..... per lundred fi 15.40 Thiertional toilsator Model. same hiali wills . 02 cost fratures Es ahorr-.Flus a Intrertional Meter Indi. ivit. 7 Io plapoint dirimiloan atitenta Ia furing. Sihpe. TL-8IW

Model M. 55
Net 21.70 cable for store .03 th. 2.39 per C ACCESSORIES

## TWO-SET POWER BOOSTER B-24



- Eoosts Signal to 1 or 2 TV or fM Sets
- Low nolse broodbond circuit: no tuning needed
- Built-in isolation networks: use as eiwo-set booster
- Covers both TV AND FM, including converted UHF channels
Pasifive improvement in picture and sound qualify, even in deep fringe areas. Brighter, sharper pictures, enjoy new chonnels and new programs in many coses. The B-24 puls new life into older sets. A B-24 with an indoor ontenno will often outperform elaborate outdoar ontennas. It is a combination af a unique low.nolse frame grid amplifier fube Whe twa exclusive Blonder-Tongue circuits, the straight-thry ond the "couple-two The 'straight-thru circult boosts TV and FM signols up to iwo times on a single set. The "coupletwo circuit provides o vigorous boost in signal strength (up to 5 db ) to iwo IV. iwo FM, or a IV and FM sel.
SPECIFICATIONS - GAIN: For one sel ["stroight-thru"), 10 db on low IV band high TV bond: 7 db . For two sel ("couple.1wo" $1 / 5 \mathrm{db}$ on low IV band and 2.5 db on high TV band, BANDWITH: 54.108 me and 174.216 mc , fat within $1 / 2 \mathrm{db}$. NOISE FIGURE: 4.5 db on Iow TV.FM band and 8 db on high TV band. INPUT: For 100 ohm
balanced antenno. ISOLATION: 6 db belween sels, POWER REQUIREMENTS: $117 \%$. 6 cycles: 0.1 omp. SIZE, $61 / 4^{*} \times 3 \frac{1}{4} \times 2 \frac{1 / 2 " \text {. Shpg. wi., } 2 \text { lbs. }}{}$
TL. 102
List 24.95
Net 15.95


## REGENCY FM TELEVERTER



The Rogency Model RC. 103 TeleVerter makes ony TV set on FM receiver of the hip of a swifch, yet does not interfere with normal TV recepllon. Utilizes the IV oudio system and lorge speaker bame to produce tone quatity for superior to small toble model FM recoivers. Completely tronsistorized, Its power source is 3 tiny penlight batteries. Simply instolled by anyone in 5 minutes. Lorge easy-to-reod easy and razor shorp. Housed in ottractive $41 / 2^{\prime \prime} \times 6^{\prime \prime} \times 41 / 2^{\prime \prime}$ plostic cobinet. Shpg. wi.. 5 lbs.
TL. 110 -FM TELEVERTER
d) $\mathrm{N} \neq 1$ 14.96

BURGESS Z CELIS (3 needed).... . 0 B eo.

## DELUXE UHF-TV CONVERTER

Adds all UHF channels (primary, sotellite and translator) to standard TV sets. In sures finest pix even in weak areas. Feafures dual-speed chonnel selection wilh direct and fine tuning controls; stable, thielded oscillotor. Mox. signol tronsfer oo Chonnel 5 or 6 of TV, Precise 300 ohm match and triode amplification; Improved uner design meets new FCC stondords: UL opproved; Tunes channels 14.83 (470. 890 mc ) Tubes: 6 AF4 ond 6AB4; Power: 117 valts at $60 \mathrm{cps} A C, 20 \mathrm{w}$. Sizet $6 \frac{1}{4}$ " $\times 5^{\mathrm{c}} \times 4 \frac{1 / 4}{}$.. Shpg. wf., 4 lbs. Tt.101 - List Price 39.95 ........Net 27.50

## BLONDER-TONGUE VHF ANTENNA BOOSTER



MODEL AB- 2 Enjoy brilliant, clear TV reception in even the mort dificult weak signol or fringe oreas. Poweriul brood. bond ompllfier provides more thon 10 db gain on oll VHF (2.13) chonnels. The omplifier, housed in o weatherprool case with mast mounting brackets, may be locontrol unit The remat from the remote be locoted of any ploce convenient to the set. Shpg. wl., 2 lbs.
Tt. 103 ..... List 53.95 ....... Net 32.40 FM ANTENNA BOOSTER MODEL AB.FM as obove but for FM bond ( 88.108 MC .)
TH. 104

## UHF VHF TV SIGNAL BOOSTER

### 3.95

Increases videa and sound output over $20 \%$. Consists of complete IF stoge which easily plugs inta any receiver in side the cobinet. thus eliminating ex ternal switches and connectians. Has advantages of broad band boosters but without seporate tuning for each chon nel. Ideal for poor signol areas. nel. Ideal for poor signol areas.

# try to BEAT these ANTENNA PRICES! FULL 20 ELEMENT STACKED Snap Open Conical 

\author{

- all aluminum - no Loose parts - fastest installations
}

Best antenna deal yet for servisemen-deater-and installatian secialists. All the most wanted fectures. Quickest-easiest installa tlan possible. No loose hordware. Alf elements snop apen and lock in withoul lools. Mast efficient cenical design lor all recep. tion oreas. Two complete bors with $Q$ bars, less mast. Shpe. wt., 8 Ibse
AN-28WX-Singly, e0. ................................................ 5.25
Lots of 3, de AN-32wX-5hpo wi, 18 lbs U-INSTALL-IT" KIT Whh Chlnney Mount. Some ontenna and accessories but includes chimnoy mount AN-43WX-Shpe. wf., 18 lbs.

## NEW! SUPER FRINGE AREA ANTENNA

- THE MAXIMUM ANTENNA

FOR YOUR AREA.

- MAXIMUM CONSTRUCTION.
- PERFECT $300 \Omega$ MATCH ON EACH CHANNEL.

The most recent advance in antenno design and construction. Extremely high goin and front to boct retio. Phasing relation. ship assures equal gain on all VHF channels. Eliminates ce. chonnel inferference. Elements ore double loctod in high Im. ore double lockod in high im pact Styrene plastic insulators. A viomatic brackots lock and secure all elements. Completely preassembled. Entlre antenna slip and twist of elemants. Anaps open and locks in. Dual insulators prevent wover wf. 12 lbs

AN-37WX 4 st 33.19 .........Net 14.55 AN-38WX 2 Bors stocked ........Not 29.58 "U Install It" Kit. Includes AN-37WX and roof mount kit AM.10 with one 5 . 11 most. Shpg. wf. 20 ibs. most. Shig.
5tacked Klt. Includes AN. 38 and roof-mount kit with AM-11, 5hog wi........Net 16.95
Stocked X
AN-4IWX

## FAMOUS BRAND COLOR 'TENNA

## PRICE BREAK-Over 50\% Off-List 29.95

## SALE 13.95!

- HIGN GAIN ON ALL YHF CHANNELS - COMPLETELY FACTORY PREASSEMBLED - ELECTRONIC LENS DESIGN
- HIGMLY DIRECTIONAL-YAGI PERFORMANCE
Lafayette is the FIRST to offer this nationally-tried and proven antenna of close to $25 \%$ off the resular decler proven antenna of close to $25 \%$ off the regular dealer plyse. This fis tha sam fine antenna-with all ifs ex. clysive feolures - that sells for dallars more than aur record-breaking price. Check these feotures: Electronic Focusulng-High Goln-all VHF chennel coverage-onodized quality construction-oasiest installation-aupstanding tringe area reception-compact design dynamically bal. onced. All-oluminum construction-automatic hardware. Shpg; wt.: ${ }^{8}$ lbs.
AN-S IWX Lis 29.95
Complete Xit of AN-51 Net oo. In lats of 3, 13.25 shown. Shpg: wl., 15 Ibs .
AN-S2WX

Net 13.95


Gold Anodized
"U-INSTALLEIT


All the accessory items necestory to do - quick, eary installotion from roal to recelverl you get an all ongle raol mount-lightning arrestor- 75 feet of 300 ohm iwin lead- 6 insulated scrow eyes- 2 insulated most standoffs and a $5 \mathrm{f} . \mathrm{I}$ I $1 / 4 \mathrm{OD}$ steel mast. Shpg. wi., 7 lbs.
AM-10W .0. 2.95 Lots of $3, \bullet 0, . .2 .85$ AM. 11 W with 2-5 fit mosts. Shog wt., 10 lbs .
Singly, 3.55 Lols of 3, eo. 3.35 AM-12W-Some os AM-10 W but with chimney mount
chimney mount.
Eo. 3.25 Lots of 3, eo. 3.15 AM-13W-Same on AM-1lw but with Ehimney mount.
Page 258

## 8 Elgment conical

All oluminum 8 element conical. Full sired. Rugged insulotor block. Designed for ropid ossombly. Fon front of 6 full length element. Reol velue. Shpe. wi., ${ }_{4} \mathrm{lbs}$.
AN-IIW

$$
\begin{aligned}
& \text { Singly थ. Net } 2.60 \\
& \text { Lot: of } 3 \% 0 \text {. Not } 2.40
\end{aligned}
$$ "U Install If" Kir. Includes AN-II and roof-maunt klt as shown with one 5 ft . mast. Shog. wl., 11 lbr. AN-33W

"U Inst instead of Ir' Kh. With chimney mount AN-4AW

Net $5.50^{\circ}$


Populor primory area ontenna. Rugged oluminum canstruction. Light weight eosy to Install. Shorply directionol. Shas. wt., 41 bi .
AN-21w
Net $\mathbf{2 . 2 9}$ AN-20w 2 boy stacked .............Net 2.29 "U Insiall It" Xit. Includer AN-2IW ond roof mount kit, with one 5 H . mast. Shpg. wt., 11 lbs .
AN-45W
"U Install It" Kit. With enumnoy mount Insteod of root mount. Shpo. wh.. 11 lbs. AN-46 W

ALL PRICES IN THIS CATALOG SUBJECT TO CHANGE WITHOUT NOTICE

LEADER INDOOR ANTENNAS


3 Suetlon Indoor Antenno
Adjust. oblo Indaop ontenno. 3 section aluminum sfaffe. Meavy, crockle finish bose. Com. plete with 300 r twin lead. Shpg. wi., $21 / 2 \mathrm{Ibs}$. AN-12.......Singly, oo. 1.15

$$
\text { in lots of 3, } \infty
$$

Swifch Type Indoor Anfenna door- 3 posprion switch and critucross phasing doments. For VMF-UHF-FM 3 section brass olements. Bokelite boll housing. With 300 r lood in wire shpo $w t ., 3$ lbs. AN-99.................Ne1 1.99

## PORTA-YENNA <br> A universal onten-

 no for parroblo and stotionary TV sols. When not in use dipales disappear. Can be ploced on bock of ony TV set. 3 sec. tion, plated, telascoping dipoles. Com. plate with instructions, mounting hard. ware and lead in. Shpg. wh., 2 lbs AN-35.Not 1.59

## Catyette FRINGE AREA ANTENNA KITS



## MIRACLE 'TENNA

 - AMAZING MIRACLE RE FLECTOR SYSTEM BROAD. BAND COMPOUND YAGI ARRAY IDEAL FOR COLOR RE CEPTION PHASED DIPOLES - RECOMMENDED WHERE CO. CHANNEL INTERFERENCE IS ENCOUNTERED \& HIGH GAIN REQUIRED
#### Abstract

The new Miracle line of tenna TV antennos gtves you the erclusive, revolutlonory Mirocle Reflector System. These reflectors are "Tuned" to produce highly directive results, previding the finest possible front to back ratio acrass the moximum number af channels. Reduces greally side inferference ond vosily improves picture clorify. The Broadband Compound orray hos 7 octive elements on the low bond (channels 2 thru 6) and 8 oclive elements on high band (channals 7 thru 13). All oluminum canstruction mast clamp and pasitive spring-loeded clamps for where required. Pawerful "sure-grip" mast clamp and pasitive spring-loaded clamps for elements. Law wind resistance. Shpe. AN-6AWY  Kit AK.36. As above, Including 20 f1. Helescoping mast and accessorles. Shpe. w. $A K-36$ AK-36WX …................................... 5.00 Down Kit AK.37. As obove, including Alliance $U .98$ rototor and odditionol Net 28.95 Shpo. Wf., 53 lbs. AK-37WX ......................................... 6.30 Oawn Net 62.95


## Famous Brand SUPER Color 'Tenna 20 Elements-Up to 125 miles OVER $50 \%$ OFF

- Electronic len's de SIGN - HIGHIY DIRECTION. AL-YAGI ENGINERED - COMpletely preassembled MORE GAIN ON ALL VHF Channels

Wall known, field proven, deep fringe antonno-at dollars below the regular deoler price. Alf the exclusive feotures that hove mode this ontenna a national favorite for "problem area" reception. Electronic focussing -20 etements for more goin-quality osy installotion -quare crossorm-1" round driven elements-l" pubing boam braceanced design-oulstondinatic hardware-oll oluminum cansiruction. Dynomically bal AN-63WX
Kit AK-34. Includes AN-63WX SUPER color inenmo 20 it iol....................Nel 16.98 sories. Shpg. wh., 30 ths AK-34WX
5.00 Down

Kit AK-35. As above, including Allionce K-22 ratotor and odditlonol eccessories 25.95 Wt. 52 lbs.
AK -35 WX

NEW "WAVEBOOSTER" 1000 SERIES

- EXtREmE fringe areas
- quadro-grip Assemalies
- all aluminum construction
automatic ROCKET-LOCK

26.05

## BEST BUY" KITS! NOTHING ELSE TO BUY!

- 20-30-40 fr. mast - WITH OR WIThout famous alliance rotators - finest components Avallable on Loforette's Eosy Payment Plan. Only $10 \%$ Down On Orders of $\$ 20$ Or More


INSTALLATION ACCESSORIES
Take your pick of Lafayette deluxe antenna kits-chosen by experts to meet the most demanding reception problems. Each kit contains a rugged, high-gain, pre-selected antenna, telescoping mast of heavy gauge galvanized steel. universal base mount, guy wire, 100 ft . of twin lead, ground rod ground wire, lightning arrester, hook-eyes. standoff insulators, turnbuckies. Rotator hits include Alliance rotators thrust bear ing. 10 ft . antenna mast. 100 ft . of rotor cable and 4 .wire lightning arrester. Shipper complete-ready for too quality installation. These kits may be shipped by express

DEEP FRINGE ANTENNA KITS
UP 10 ISO MILES WITH FINCO GEOMATIC B-8


KH AK-22. Includes Fince Geomatic B.8 with fidelith phosing-xirome directivity-highest front to bock ro. tio areot strength and durability, 20 ff . telescaping mast and accessories. \$hpo. wt., 30 lbs. Express ship. ment only.
AK-22WX
AK AK-23. As above, including Alliance U.98 rototar and odditionol accessaries. Shpg. wt., 52 lbs. Express shipment only
AK-23WX.
Kif AK-24. Same as AK-22 but with 30 ft . mast Shpg. wf., 46 lbs. Express shipment anly. AK-24 WX

Not 32.50
KIt AK-25. As above, including Alliance $\mathbf{U . 9 8}$ rotatar and additianal accessaries. Shpg. wt., 68 lbs. Express shipment only.
AK-25WX. $\qquad$
Kit AK-26. Some os AK-22 but with 40 ft . most. Shpg. Wt., 55 lbs. Express shipment only.
AK. 26 WK, $\qquad$ Net 37.95
KIt AK-27. As obove, including Alliance U-98 ratato and additional uccessories. Shpo. wh., 79 lbs. Express shipment anly.
AK-27 WX
Net 71.95
FINCO 8-8-Antenno anly-Shpg. wr., 10 lbs
AN-II OWX
Net 22.3

LAFAYETTE'S MAXIMUM PERFORMANCE KITS UP 10100 mILES WITH LAFAYETTE AN-37.


Kit AK-28. Includes the AN- 37 Moxlmum Perfarmance antenno-mast recent odvance in antenna desion--qual anfenno-mast recent odvance in onfenna design-aquat
galn on all channels, 2 to 13 . 20 ft . telescoping mast galn on all channels, 2 to 13.20 ft . telescoping mast
and occessories. Shig. wt., 29 lbs. Express shipment anly.
WK-28wX
Net 22.95
Kis AK-29. As obove, including Alliance K. 22 rotator and odditional occessories. Shpg. wf., 51 lbs. Express hipment only
AK-29 WX.
Net 48.50
Kit AK-30. Some os AK- 28 but with 30 f. mast. Shpo. wt., 45 lbs. Express shipment anly.
AK-30WX $\qquad$ Net 26.95
Kit AK-31. As above, including Alliance K-22 retatar and additional occessaries. Shpg. wl., 87 lbs. Express shipment only.
AK-31 WX
NH AK-32. Same os AK-28 but with 40 for hpo. Wt., 54 lbs, Express shipment only
K-32 WX_.................... 29
Kit AK-33. As above, Including Alliance K-22 ratator and additional occessories. Shpo, wi., 78 lbs
AK-33 WX ...........................................................Net 54.95
AN-37WX-Antenno only-Shpg,wf.. 12 Ibs....Nef 14.55

# ALL CHANNEL ELECTRONIC ROTATING TV ANTENNAS 

## ALL CHANNEL'S "RIVIERA"

## WORLD'S MOST POWERFUL ULTRA

 FRINGE VHF - UHF - FM ANTENNA
## GUARANTEED 200 MILE VHF

 RECEPTION OR YOUR MONEY BACK- Receives channel 2-83 from all directions without a rofor - Broadband UHR VHF and FM. moforless all direction reception - All aluminum ilp.out assembly

Field tests reception on VHF of up to 200 miles has made possible this unprecedented guaranee. Here is an antenna with one transmission line for all UHF. VHF and FM stations in all directions without the use of a rotator. The nine position solector switch connected at the set electronically rotates antenna beam inatantiy without physically moving the antenna. Gain on channols $2-6$ comparable to thay con cals; on channals $7-13$ comparable to stacked la-eloment single channol yogis; on 14.81 com . parable to bow-lte reflocter. is $1 / 2^{\prime \prime}$ dowaled aluminum elements are 60 inches long. Camplote with switch coupler. 45" stacking bars and $271 / 2$ angle type mast insulators for polymicalone line listed below. shpg. Wt. 10 ibs AN-135WX less Mast ............ 19.85
THE RIVIERA MUST BE USED WITH THE LOW LOSS LEAO IN WIRE LISTEO BELOW
U-Install.11" hit: Includes Riviera antenno, chimner mount, two five H. masts, 100 H . of Polymicalone 4 conductor lead-in wire, 8 stand off insulators and complete instructions. Shipping wt., 16 lbs
AN.42.WX
Nel 29.95
ALL CHANNEL LEAD-IN WIRE FOR USE WITH RIVIERA ANTENNA Special 4 conductors, matched impedance transmission line. Low loss, mico filled Polymicolene copperweld conductors.
WR-8-50 tt. length .Net 5.00 WR-18-100 ft . length . Wet 8.90 WR-9 75 ft . length . Net 7.50 over 100 Ht , per 100 ft . Net 8.90

\author{

- Money Back Guarantee - Offers All the Advantages Of An Expensive Rotor Mofor Directional Tuning 12 . Position Electronic Ratating Switch Eliminates Ghosis External interference
}

NEW! ALL CHANNEL'S "ATLAS"
EVERYTHING INCLUDED FOR COMPLETE INSTALLATION! Pre-wired and Pre-assembled For Do-II-Yourself Installation

## ALL CHANNEL'S INDOOR TV ANTENNAS



Embassy


1960 MODELS
UP TO $100 \%$ MORE POWERFUL! WITH 12-POSITION DUAL CONTROL SWITCH

The only indoor TV antenna with tele scoping arms thot extend io 104", and using adiustoble rador loop principles. Field lests prove efficient operation be yond the range of any other indoor on lenno, and in difficult reception area New, 2 -position dual receplion areas. New 12-position dual conirol switch is olectronically engineered to reject ghosts and orient antenno o direction of strons est signal. Brass lip balis on polescoping arms ollminoto signol losies and stolie dischorge interterence. Adiustobie rado loops coupled 10 orms moke clearer, shorper pictures on oll channels passiblo. Brass orms and rodor hoops ore locquered to prevent rarnishing and discoloration Transtucent plastic base reststs diri, dus and smudges. Avallable in Mahogany and vory (ipecily). Shog wt 4 lbs
AN- 138 Lfit 16.95 .................. 9.95

No other indoor IV ontenna matches it beouly or equals its incomparable per formonce. They are o welcame oddifion to ony home because no protruding god. gets spoil the functional design. FEATURES - Exclusive 12.Pesition Duo Control Switch U-Section Exiro Long Tolescoping Arms Reduces Ghosis ond Interference Low.lass 6 ft . Tronsmis sion line Gives Moximum Signal Transfer - More Powerful Than Other Indoor An tennos Trenslucent Plastic Mousing Re sists Dirt, Dust and Smudges Polished and Lecquered Arm-Ne Tarnishing and Discoloration. Available in Mahogoer, Ebeny or Ivory (specify color when order ing). Shog. wi., 4 lbs.

## Finco

## The World's Finest TV and FM ANTENNAS

## MODEL B-8 <br> \$22.93

MODEL B-8, TWIN DRIVEN-Absolute maximum front-to. bock rotio for the ellmination of venetion blinds, bock ghoste, olc. with no socrifice of goin on sither low-band er high-bend. Accomplished by twin-driving of two fidelity phosed slaments "Quad-Tri-Quod" dilve-frue quadroture iwin-drive on law-bond and tri-avodreture twin-drive on high-bond; and "Interioaved Elementy". These are added to Fidelity Phosing-combining the proved superiority of driven folded dipole impedonce motching on low-bond with the ocknowledged extro high gain of three-element collinear operation on high-bond. Oversize, extro-heovy gouge square oluminum tube boom. Shipping Weights gouge 9 l
AN- I 10wX Llit 37.30 ........ 5.00 Down........ Net 22.93 Model "A" STACKING Kit fovars high-band. Shpg. wt., $3 / 416$
AN-120W list 2.00 .................................................. 1.23 Model "C" STACKING KYT fovort low-band. Shpe. wi., 4 lb .
AN-122w List 3.00 .......................................................... 1.8

$\$ 10.70$
FOR DEEP FRINGE AREA OF 150 MILES OR MOAEWhere axtra hlgh goin and shorp directivity ore o necessity. Includes low-bond reflector 3-elemeni high.bond reflector, low.bond full th wave director, and two 3 . -loment colineor $h$
ping Weights 6 lbs
AN-113Whis Ist 17.50 Model "A"" STACKING KIT to sioct 2 Model Nol 10.70 model $4 / 4 \mathrm{f}$. STACKING Kit to shock 2 Model E.4. Shpe. Wt. $2 / 4 \mathrm{fb}$
AN- 120 W List 2.00
..Net 1.23


## MODEL

FMT-1

$\$ 8.53$
An oll-direction FM ontenno kit, devigned for reception over the fult FM band, 88 to 108 MC ., without necessity of rototion. The iwo-falded dipoles ore motched with a speciol auorter wove phosing stub for opllmum goin ond opproximote circulor, oll-direction radiation pickup pottorn. Supplied with 50 ft . of 300 ohm iwin line, 5 ft . most, mounting bese, two mast stend-off insulators, three wood ecrew eye stond-off Insulators. Shipping wi.a of lbs.
AN-110WX Lift 13.95 ................................................... 8.53

## MODEL <br> FM-4



FINCO FM SUPE DELUXE ANTENNA-Geometricelly designed lor ultra-high gain, this entenno uses a twin drive sloment with impodence centrel stube. Extro wide spocing of elements gives substantially oreator tignal than stondord 8 to 10 element destens. Strong aquare aluminum boom for eztra rigidity. Exclusive "lock-tite.no-illt" sodde mounting. "Boz girder"t smop-aut wilf-alligning brock. efe. Antenna is pre-ascembled with all oluminum rein. forced elemonte. Shipping Wt.i 6\% lb. AN- 119 WX L1st 23.95
.Net 14.4 Model fMS STACKING KIT to stock 2 Model FM-4. Shpg. wi. $1 / 16$.
AN-123w tst 3.20

MODEL 8-7-The Model 8.7 embodies oll of the exclusive leotures and fine performonce of the Modal B.6. However, insieed of o single combinotion director, the -7 features two 3-element colineor directors on high-bond ond on inductonce-tuned low-bond director. This produces even greoler directivity in pattern ond infensity of goin, opproaching moximum pessibilitios. This pawerful broadbond ontenno with high goin and tremendous front-ta-bock rotio protection ogoinst adjocent ond co-chonnel interference. Shlpping Weights 6 y lbs.
AN-111WX tist 24.90 $\qquad$ Net 15.23 Model "A" STACKING KIT fovors high-bond. Shpg. wt., $\% \mathrm{Ib}$.
AN-120W thet 2.00 ............................................Net 1.23 Model "C" STACKING KIT lavors low-bend. Shag. wh., $\%$ lb.
AN-122W List 3.00
.Net 1.82


SUAURBAN TO FRINGE OF 75 MILES OR MORE-A Truly HOT Antennal Includer low-band refloctar, J-element calinear hlgh-band reflector and inductance-tuned com. bination director for both low-band and high-bend. ©h. 2-13). Shipping Woights 5 lbs.
MODEL E-3
AN- 114 WX List 13.50 ........................................Not 8.23 Model "A" STACKING
wh $3 / 1 \mathrm{lb}$.
AN. 120 W List 2.00
.Net 1.23

## MODEL <br> FM-2

FINCO FM DIPOLE AND REFLECTOR ANTENNA KITFolded dipole ond ceflector FM onfonno hos goin up to 3.5 db . All oluminum construcilan, complelely pre ossem. bled with snap out, self-oligning oluminum brockets. Kit contoins ontonnos five ff. most; most base; 50 ft . of 300 ohm Iwin ISne; iwo mest stond-off insulotors; three kerew
oye stond-off insulators, and installotion insfructions. oye sland-off insulators. Shipping welghts 6\% lbs.
AN-117WX Ilst 13.95.
...Net 8.53 Model FMS STACKING KIT to stock 2 Model FM-4. Shpg. Wh., 's lb .
.Net 1.97


MODEL B.5. MAXIMUM FRINGE AREA-Overile exiro heary gouge square oluminum lube boom. All eloment brockets ore of "Box Glrder" oluminum construction. Ex. brockets ore of "Box Girder" oluminum construction. Ex-
clusive "FIDEIITY PHASING" combines the proved su. periority of diven folded dipole impedonce matching on periority of driven folded dipole impedonce matching on
low bond together with the ocknowledged extro high gain low bond loget hef with the oclinawledged extro high gain
of three olement colineor operotion on high bond. Multiple of three element colinear operotion on high bond. Multiple Low bond reflectors ond directors, high bond colinear reflectors and directors, os well os combination elements. Uitro High Goin and sensitive directivity previously found only in twelve (12) element Yagis eut to single chonnel. This mokes possible reception and pleture clority heretofore considered Impossible in maximum fringe areas up to 200 miles. Shipping Weights: $91 / 2$ lbs.
AN-112WX list 32.00 Net 19.55 Model " $A$ " STACKING KIT fovors high-bond. Shpe. wt.

AN- 120 W List 2.00 .Not 1.23
MN-120W Ust 2.00 ....................................Nof STACKING KIT fovori low bond. Shpg. wt., Model "B." STACKIN
$\%$ Ib.
AN-121W List 2.50
.Net 1.83


SUBURBAN AND SEMI-FRINGE-Features preossombled, oll oluminum. colineor high-bond reflector mounted on special highoimpoct polystyrene insulotor for Increased gain and ezeptionally high front-to-beck retio. (CH. 2.13). Shipping Wi.: $31 / 2$ lbs

AN-IISWX List 7.35
Model "A" STACKING KIT to slock 2 Model B-2. Shpg wh. $1 / 4 \mathrm{lb}$.
.Nef 1.23
AN-120W


FINCO 4 ELEMENT BROAD BAND FM YAGI-A brood banded 4 element Yagi for high goin on FM bond. 88 to 108 MC . All oluminum construction with square booms special "Lock-Tite-No.Tilt" soddie bracket for permonent horisontol olignment, Reinforced olements ore pre-asiembled with snop-out beakels, "Impedonce step-up" design for moximum energy tronsfer. Shipping weights 5 Ibs.
AN-I IIWX Llst 12.50 ........................................ 7.
Model FMS STACKING KIT to stack 2 Model FM-3. Shps. wh.. $1 / 3$ Ib.
AM.123W List 3.20 ......................................................... 1.97

## NEW FINCO FM-5 GOLD CORODIZED BROAD BAND FM ANTENNA 10 ELEMENT. 88 TO 108 M.C.

New FM super-deluxe twin driva antenna is designed on Finco ultra high geomotlc $T V$ onfenno princlplet, using - specially ongineered twin delve element hoving impeodecially ongineered twin drive colement hoving impee to be realized over the full 88 to 108 m .e. band. Superlor front-ta-bock rotio is mode possible through Finco potented fidelity phosing. Designed for moximum protection egainut Prdelity phosing. Designed for moximum prolection againut oll brackets ond complete olements double carodized. oll brackets ond romplete olements double carodired. Heary duly square oluminum beem, iserelusive "leck-Thte-No-Tilf" soddio mounting, and boz girder smap Shps. wt.. $81 / 2$ lbs.


\author{

- Flattens the Mountains - Shrinks the Miles
}

28 working slements for full throttle power. A real lone rangerpertormar that outpulls them all. Introduces the balanced sloeve dipole system-a glant step in TV an. tonns technology. Electrically enlargat capture area tor as much as $35 \%$ groater gain on all channels. New spatial relationship of parasific and collector olements aehlaves up to 15 is 1 (low band) and 18 to 1 (high tand)-tront-to-bact voltage ratios. Multiple driver dl poles provide sharper directivity-cut down ghosts and reliective pick-up. Bready resonant oparation reduces ruactance-leaves highly resistive 300 ohm Impedance. hosulta up to $35 \%$ of signal recaived theomes usabie at set. Flat liand pass-ideal for color. Wide vertleal
angle helps eapture rafracted slenals in hilly torrala. Rovolutionary new 2l-aloment design (no larger than other conventional tringe antonnas) delivers unprece. dented gain. Roek-of-gibraltar rugededness; six $1 / 2$ Ineh ood, seamless aluminum elements. All 4 inch clements over 30 Inches reinfored by 15 inch aluminem dowels. Untreakalle insulators made of low-loss weather-proef Kralastic B. Heavy-duty double U-bolt and prafile as. sambly for supar-rigidfly. All-aluminum for permanant oorrosion resistance. singio Bay, less mast. Shpg. Wh., 15 lis.
AN-70wX List 47.50 5.00 Dawn Net 27.93


Super sensitive hellix antenna for suburban and rurol reception where high sensiltiviry is needed, or for urban master-antenna svitams. Beoutlful gald anadizing prevents corrosion, maintains appeorance ond performance. Less Mast. Shpo. wt.o a lbs. Single, 18 lbs. Stocked.
Ax71! Single Bay Helik. List 29.95 AN-7IWX
AX7115 Slocked Meliz. List ol. 50. AN-T2WX 5.00 Down Net 17.61

All-Aluminum Star-Helliz
\$x711. Single Boy Helim. List 25.50 AN-TJWX
Sx711s Stacked Melix. List 52.50 AN-TAWX

500 Dawn
Net 30.87


Highly efficient due to its poly-phose triple resonator system, this antenna is specially recom mended for wook and reflective signal oreas re qulring exrreme sensitivity and directivity. Shining gold anodizing pratects antonno and preserves appearance. Less mast. Shpg. wt., 10 tbs. Single Boyz 16 1bs. Stocked.
Axpll Single Bay Helix. List 30.95
AN-T5WX 5.00 Down Net 22.49 Axplls Sracked Melik. List 82.50.
AN-76WX 5.00 Down
Nel 48.51
All-Aluminum Power-Hellx AN-77WX Boy Melix. List 35.00
pxplis Stacked Mellx. List 72.50
AN-78WX

Net 20.58


Oulstanding antonno for near-fringe, suburban and urbon areas, possessing high gain excellen directivity and clean design high gain, excellen tollotion. Gold Anedized for long life and top performance. Less Mast. Shpg. wt., 6 lbs. Single day. 11 lbs. Stocked

AB-500. Single Bay. Lhst 21.50
AN-79WX
Nel 12.64
A8500S. Stocked. List 47.00
AN-79WX …......5.00 Dawn
Net 27.64
All-Aluminum Fireboll
AN-81WX. F8500 Single. List 15.30 Net 9.00 AN-82WX.FB500S Stacked. List 32.95 Net 19.37

SET 661 STACKED CONICAL UP TO SO MILES


No other canical ostembles so fort, per forms so well. The oll. aluminum conical that mode ontenna history. Orer 1,000,000 in use todoyl Completely proosiambled of the foetery. Exclusive fat oction ossembly soves onthe job time and labor. One inch square aluminum boam. Morsive unbreakable dipole hood made of low-lons weother-proof high dielectric moterial. Shpg. $w 1 ., 8$ lbs.
AN-83WX. Stacked. Llst 17.95 Net 10.55 Madel JET660 I-8ar Jetanno Conical, Single bay. Shpe. Wi., 4 lbs. AN-s4WX: Lis! 9.00

Net 3.44

## NEW AFM300 MI-FI STEREO FRINGE FM ANTENNA




GOLD ANODIZED FM ANTENNA KITS
AfMIOO Stereo Cane Turnstile All-Directional FM Antenna


For oreas where fm stations ore located in different directions. $360^{\circ}$ all-dimensional high fidelity reception. Gleaming gold anodized aluminum, the Sterea Cone-Turnstile FM ontenno kit hat everything you need for a profestionol qualify installation. All it tokes is a screw drivar and 15 minutes of your time. Nothing else to buy. You'll heor the brilliant dif. ference in your high fidelity FM sytem. Eour-tofollew illustrated instructions make if fun to install too. Shpg. wi... $41 / 2 \mathrm{lbs}$. Moo. Shpg. Wt... $41 / 2$ ibs

Nel 9.38

AFMl50 Steree Cone Turnstile "Artoch.It" FM An enno. For anisting TV antenno installations. Features same stereo cane all-directianal design. Shpg. wi. lbs
AN-86WX List 11.95
Net 7.03

AFM175 Some as AFM150 kif plus 1 most stond of 50 ff .80 mil .30 n ohm twin lead and $31 / \mathrm{m}^{\prime \prime}$ and $71 / \mathrm{m}^{2}$ ood screw eves. Shog wt. 4 lbs
N-87WX List 13.95

## SFD MERLIN INDOOR TV ANTENNA



The indoar TV antenne that hides behind your sell En. gineered for pawer-pocked pictures on alt chomelsblack and white, color. FM too. Styled 10 Moller decor - diaps down aut-ofsight when mot in use. Instolls wosily on bock of ony TV set. The reactonce compensated dipole thot powers the plcture-hides betind your sst. No land. lard's permission needed no rentols or permits to pay for when you do-IP-yourself with the JFD
Merlin. Shpe. Wt

AN-90. 110 Vvary. Lish 14.95 AN-91. L20 Mohogany List 14.95

Net 4.95

# INDOOR ANTENNAS •TV TABLES • TUBESAVERS <br>  

NEW SNYDER SUPER S3-D (1) This great indoor ontenno feotures the new Directronic 12 position beam selector switch, gives the cleorest picture on every chonnel ond oids in eliminoling ghosss. The newly designed triongulor phosing element gives o greot selec tion of circuit arrongements. Hos potenied which sils on on extro heavy duty topple proof bose with which sils on on cutro heavy duly fopple proof base with 42". Is shorter thon conventionol indoor ontennas. Shpg wi., 3 lbs.
AN-160-List 12.50

## SNYDER 3-D (2)

New indoor ontennol Feotures the fomous Snyder DirecPronic 6-position Beom Solector Switchl Gives the cleorest plicfure on every channel-instontly-no woitingl Covers oll chonnels from 2 to 831 Now crisi-cross phosing olement gives high voriety of circuit orrongements. Alds in 1 m pedonce motching, ghost eliminotion ond ortentotion. Two
3 -section gold tone bross shafts. Brast plated phosing bar. 3 -siection gold fone
Shpg. wh., $21 / 2$ lbs.
AN. 161 -list 7.95
Net 2.79

## WUERTH TUBE SAVER

lengthens tube hife - including PICTURE TUBE! PRO. TECTS T.V.-HI-FIP.A. Any Electronic Equipment Up to 400 Watts!


New device prolangs life of oll electronic tubes including cothode-rey fubest Protects components and fubes from destructive initial surge currents by "Thermal Cushlon Action." Completaly automatic. No complicaled Instotlation needed, iust plug the "Tube Sover" into the wall, and appllonces into it. Protects T.V.-HiFi Home equipment efc. RATED: 300 wotti, $110-120 \mathrm{~V}$ AC/DC. Meosures only $21 / 2^{\prime \prime} \times 11^{\prime \prime}$. Shpo. w1. 8 oz.
TS-315 (Type 150 )
Net 2.91 Some os obove except for electronic equipment drawing Up to 450 wotts. Suifable for color lelevision. Shpg. wf. 802.
TS-316

Net 3.50

## WUERTH SURGISTOR COMBINES FUNCTIONS OF RESISTOR \& RELAY



A Surgistor is connected directly into the power Iline circuit of ony electrical device. It's function is to limit the inrush current yntll the iube heaters are warmed sufficiontly to accept the full valtage without domage. Starting re: sistance 100 ohms, circuil resistonce 0.2 ohms. Power range 320 wotts maximum. Self mounting. Shpg. wl. © az. T5-317 (4100-2) ......................................... Nel eo. . 95

FOR COLOR TV
Some os obove, but for Color TV., hondes up to 400 watis. 117 volts $A C . D C$ TSo 318 (8050-4)

## "ROLL-A-ROUND" TV TABLES

(A)

(A) Portoble TV toble with odiustoble top to occommo. dote procticolly ony full size TV sef. Can be moved around on tis own lorge free rolling casters. One minute ossembly - lust insert casters and tighten bolits. Sturdy fubular steet construction. Deluze, sotin black finish. Shpg. wf., 11 lbs TL 44 Blact Net 3.29 TL- 45 Bross Finish Nel 3.29

Optional shelf (NOT ILLUSTRATED) can be hooked on Optional shall for added strength ond storage sooce to TL.44 and TL-45. Shpg. wi., 2 lbs.
TL. 53
Net 1.10
(18) Portable TV table specially designed for the new, compoct portoble setr. Accommototes all sizel up to 14. Designed for the proper viewing angle. Other construction feotures similar to (A). Shpg. wh., il lbs
TL-47 8lock Finish
Not 3.10
TL-48 Bross Finlsh
Net 4.19
(C) This partable capt can be used os a TV Carrier with extro storoge space. Porto-bor, Server. bedside Iray, ond $\mathrm{Hi} / \mathrm{Fi}$ corrier. Assembles in 1 minute. Handsomely crafted $3 / 6^{\prime \prime}$ steel tubing, $6^{\prime \prime}$ rubber tire patio wheels. Top shelf height 26 ", plus rugged steel utility shelf on bottom. Fin. ished in bross and satin block. Shpg. wi.. $10 \% \mathrm{lbs}$
TL-54 WX Lis! 19.75
Nef 6.69
TV TUBE GUARD

- ADDS LIFETO RADIO AND TV TUBES


## 83c


$\frac{\sqrt{(1)}}{(\sqrt{a})}$
Here's your chance 10 cash in on a small investment. The "Yube Guard" will pay for Itself mony times over by greally reducing costly vacuum iube replacements. Here's how it operates. When fubes are cald, current rushes in of obout 8 times the normal roling-reducing the tube He. The Tube Guard, checks this surge of current, re. He. The Tube Guord, checks this surge of current. re. ducer homen do ito

Net 83

CONICAL WINDOW ANTENNA (5) Contoins 4 fult-sized elements plus 2 high frequency di poles which delivers hi-goin oll chonnel performonce. In stolss by plocing ends of bose agoinst window frame and tightening nuts. Bose spons up to $44^{N}$ to fit oll standord window fromes. Durobly constructed of weother resiston seomless aluminum. Matches 72. 150 or 300 ahm leod-in. Adjustoble in oll directions for moximum signol pickup. Shpg. Wl., 3 lbs.
AN-22 List Price 12.35 Net 4.95 AN- 23 Entension bot for up to $60^{\circ}$ window. Nel 1.35 AN- 24 Entension bor for up to 72" window. Net 1.89

## K-G DELTA BEAM (6)

Combines principles of Hellz coil. folded dipole, stroighr dipole and Delfa match transformer. 6 pasition switch motches line impedonce and resonates antenna to match receiver inpul circult. Covers oll chonnels 2-83. Holf bell swivel on cleor plastic base to beam ontenno in best direction. Mounted on rubber. Shpg. wt., 4 tbs. List 9.95. AN-170
Not 4.90

## AUTOMATIC TV VOLTAGE REGULATOR <br> MODEL D-200 <br> - eEtuRns full hight and



WIDTH OF PICTURE WHEN LOW LINI VOLTAGE CAUSES DISTOR TATION OF PICTURE - ELIMINATIS INTERMITTENT automatically eoosts 10 volts

Refurns full height ond width of TV picture offected by low line voltoge. This 300 watt model will handle most requirements from 90 to 135 volts. Boosti 10 volts auto motically when line is below 110 volts. Increoses sel sensitivily. Reduces low line hazords. Simple pluge in Installation. Turns on and off with the TV set. Shpg. Wit 2 $1 / \mathrm{lbs}$.
TR-108 PERMA.POWER MODEL D. 200 - net eoch 5.85 PERMA.POWER MODEL D.101-Monuol model, con olso be switched for high line volfage odiustments.
TR-20


ACME T8394M VARIABLE VOLTAGE ADJUSTER
300 W . cantinuous duty variable tronsformer. Adiusted by rotary top sw. Used os step up or step down. Voltmeter shows sec. valtage. Pri. 95/100/105/110/115/120/125 volis of $50 / 60 \mathrm{cps}$. Sec. out $115 \mathrm{~V} .8^{\circ}$ cord and plug. Size $4^{7 / 4}$ $14^{\prime \prime} \times 5^{\prime \prime}$. Shpg. wh.. 9 lbs. TR.14 ... Net 11.32

## JFD VOLTAGE REGULATOR



Maintoins steody TV Piz by keeping AC/DC Ine valtoge constont. Automatic regulating protects TV set. Plug TV into regulator, and regulating into oullet Shog. Wing ly $\begin{array}{ll}\text { TS.11s } & 200 \text { watls } \\ \text { 15.116 } & 250 \text { walls }\end{array}$
 15.117300 walts Net 2.06


TV LINE VOLTAGE REGULATOR
A provective unit designed to keep line surges from damoging TV or radios. Surges reduced from max. 140 V. down to 110 V. Soves tubes uset. ©tc. Plug into outlet and re ceiver Into unit. Shpg. wi., I lb.
Clopestat TVA 200 to 300 wolts. Net 2.05 Clarast of TVB 300 to 375 watif.......Net 2.35

## TOWER • MAST • ACCESSORIES

## (1) <br>  <br> (4) COLLAR <br> Universolly odopted to masts up to $13 /{ }^{\circ}$ Hardened cone paints. Permits mast art entation when using guy wires. Shpg. wf 202.78. <br> Net 27 <br> for use where pipe graund is avail able. Heavy steel yoke for heod. <br> TL-15-4 ft. Shpg. wf... $11 / 2 \mathrm{lb} . . . . .47$ TL. 16-6 f1. Shpg. wi.. $21 / 4 \mathrm{lb} . . .$. . 59 <br> (2) STEEL TURNBUCKLES Tokes up guy-wire sloch. Rustpraof galvanized steel. Sizes $7 \% / /^{\prime \prime}$ apen, $51 / 2^{\prime \prime}$ closed. Shfg. wh., 8 oz. clased. Shfg. wl., 8 az <br> TS. 72 <br> (3) .........-..................................17 <br> (3) "GRIP" GROUND CLAMP Makes viselike grip on pipe. Shard polnted screw makes perfect conloct <br> TS-81 Shpg. Wf. 4 oz. . 15 <br> (5) GUY WIRE RING \& COLLAR Cast aluminum faoting guy wire ring and callar thot will permit-wermanent fostening of guy wires, yet permit camplefe orientation of the mast. Will fit mosts up to <br>  <br> TS.79 TS. $80-5$ <br> ame as abave but will take masts <br> (6) FLOATING GUY RING <br> Free-Flaating. Will not bind. Retains guy wire secursty, Gaivanized steel. Shpg. Tf. per ple. 10 ors. <br> TS-66. For $11 / 4^{\prime \prime}$ mast. Pkg. of 5.38

TOWERS - MAST SECTIONS
(A) SPAULDING

## "STRATO-TOWERS"

Migh auality beaded channel construction All riveled, no welds to rust. Rugged, sinc plated steel. Mare strength - less wind resistonce of tower tops. Yop sections occept ony ratotar. All sections fectory assembled. Each tower consists of ane ar mare $8^{\prime}$ sections plus an $8^{\prime}$ most, base plate and mast kit assembly. Moy be house bracketed or roof mounted. Free standing installations requite guring ev. ery 16". Roof mount, "house" bracket and guy stations are extro.
Stock
Ne. Height Sestns Weight
TL-124X
TL. $125 x$.
TL. 126X

| TL-127X | $40^{\circ}$ | 5 | 72 |
| :--- | :--- | :--- | :--- |

Mouse Bracket, Shpg. wf. 5 Ibs TL-128X
Roof Maunt Bose, Shpg. wt. 2 tb TL. 129 X
.Net 2.88
Guy Station, Shpg. wt. 4 lbs. TL. 130 K

Nof 3.25
Shipped F.O.B. Fronhfort, ind. No C.O.D. Send full remittonce to Lafovalto with order. Shipping charges. cellected on de ifvery.
(B) TELESCOPING TV MASTS
Heavy-duty telescoping masts, ideal for any F antenne array. Mot-dip sins galvanizing inside and autside pravides unusual ruggedness and impenetrable cormasion resistance. Designed for easy instollation and assembly. Musky thumb balts loek and assembly. Musiry thumb bolis lock sections outomatically. Na sllpping, no service. 18 gouge . 003 woll. Supplied
complete with oll guy rings, clamps and necessary hardware. Tofal $510 . \mathrm{ft}$. sec lians for height up to 50 th. O.D.
 \#4 ( $2^{*}$ ) . $5\left(21 / 4^{\prime \prime}\right)$. Shipping express

## only.

50-FT. MAST - Consists of all 5 sections Histod abaves Nas. 1, 2, 3, 4 and 5. Helght 50 foet. Shpg. wf., 39 ibs.
TL.63WX
Net 13.73
40.FT, MAST. Consisis of 4 sections: Nas. 1, 2, 3 and 4. Height 40 feel. Shpg. wt., 28 lbs.

## TL. 62 WX

$\qquad$ Net 10.05
30.FT. MAST. Consists of 3 sections. Nas. 1. 2, and 3. Height 30 feet. Shpg. wt., 21 ibs.
TL-bIWX
Ne: 7.28
20.FT. MAST. Consists of 2 sectians. Nos. 1 and 2. Height 20 feet, Shpg. wi., 14 lbs.

## TL.60WX

## (C) BANTAM TV TOWERS

New Bantam TV towers designed for convenient mounting on all peak or flat roaf tops. Eliminates cumbersame guy wires. Antenno tower is self sup. porting. Hot-dlp golvonized steel fub. ing insures strength ond corrosion. ing insures strength and corrasionprool service. Provided whith special, hordened, serew noils for strang and rigid fastening. Positive, leak-proat Installation is achieved by the sealline compaund permonently affized to the odiustable feet. Completely pre.os sembled. less mast.
7 Foot Instaliation. Use with $11 / \mathbf{s}^{\prime \prime}$ O.D. $\overline{2} 5^{\circ}$ mast.

TL. 64 WX Wi., $51 / 2$ lbs.... Net 4.46 - Foat Installation. Use with $11 / 4^{\prime \prime}$ O.D. $5^{\prime}$ most or 10 Foat Installations. Use with $11 / /^{\prime \prime}$ O.D. $\times 10^{\circ}$ mast Th-65 WX Wi., 7 lbs Net 5.85
(7) MOUNTING ACCESSORIES

Log screw expensian shield. $100 \%$ rust proaf. Shpg. wf. 10. 2 az.
Nef ….................. 09 eo. 10 for .81
 .04 ea. 10 for .36 Stor drill. $1 / 2^{*} \times 8^{\prime \prime}$ for drilling in cen crete, brick or stene. Shog. wt. 12 az. Net.
.49
(8) 3-WAY GUY WIRE CLAMP Fits mosts up to $21 / 2^{\prime \prime}$ diometer. Made of heory gouge steel. Shps. wt., 3 az.
TS-89 gouge steel. Shpe. Wi., 3 az. Net 29.

## (9) MAST GUY CLAMP

Mos 6 guying points. A handy thing to keep in the taal klt. Will occommadate masts up to one and ane-half inches in diometer. Shpg. wi., $1 / 2 \mathrm{lb}$.
(D) TV ANTENNA MASTS STEEL, MASTS. New carrosion-resistant 5 ft . steel mast made to fir alt antennas One and is taperad. "Jam Fit" construction with locking key. $11 / 4$ "O.D. TL. 12 W 5 ff . Wi., $21 / 2 \mathrm{Ibs}$. L. 13 W K 10 ft . Wt., $41 / 2 \mathrm{lbs}$. 69 TL-14WK $10 \mathrm{ft.e} 16$ gouge. Wi., 8 lbs ALUMINUM MAST5. 18 gouge.heory wall.high tensile sfrength. Rust and corrosion proof. Swaged far stacking.
TL-66W 5 ft . Wt. $11 / 2 \mathrm{lbs} . \quad 1.20$ $\mathrm{TL}-17 \mathrm{WX} 10 \mathrm{ff}$. Wi. $21 / 2 \mathrm{lbs} \quad 2.30$ 10 Fq . Most shipped vio express only.
GOLD ANODIZED
GOLD ANODIZED
ALUMINUM MASTING
GOLDEN ANOT FOR - IDEAL MAST FOR
GOLDEN ANODIZED ANTENNA
This Galden Anodized aluminum mast will outlast any anienna. Mode of o reugh. extra strong, drown oluminum allay. This $.050^{\prime \prime}$ wall mast is stronger than a 20 gouge sfeel mast. Permonontly eliminates corrosion problems. Ends are swaged for " "Jam-fit" so that two or mare masts may TL. 115 W s ft Wh.
TL. 115 W 5 ft . WI. I $1 / 2 \mathrm{lbs}$. Net 1.70 Th- $116 \mathrm{~W} \times 10 \mathrm{ft}$. Wf. $21 / 2$ lbs. Net 3.26


ALL ANGLE BASE
and ROOF MOUNT
ZUB2 $1 / 4$. All Angle Base and Roaf Maunt Mast populor swivel bose mount in use taday. Warks on ony surface-flet, slant, peak or wall. Heavy gouge weatherproofed steel. Takes any mass up ta $21 / 4$ O.D. Complete with hordware.wh., 2 lbs. rS-37. List 3.05 .

HOW TO INSTALL

TV ANTENNAS


This book describes in IImple layman's lan. ouage, how to install an antenno ond the various factors involved. It olso telis how so repair TV oniennas. No rechnical knowledge required. 32 Dages.
BK-7519
Net .50

## フult GUY WIRE FASTEN

Simply drew guy wire the ASTENER
Simply drew guy wire through the "griptite": laape wire back, and twist ance. Used estensively in armed service com municotion installotions.
TS-320 Shpe. wi., 4 or . ......... Net . 69 affect on signal sfrength. No ground needed. Maunls on bock of set. For 300 ohm lines. Shpg. wi., $1 / 2 \mathrm{Jb}$.
TS-235 HP-50-list 4.50 Nel Eoch 2.65
TV-FM interfenence filter

electricel disturbances in the antenno cir cuil. Clears disfurbances coused by neon, -Roy, ignition, oppliences, diathermy shart wave, etc. Shps. wi., i it.
TS-26s

##  <br> PRECISION CLARIFIER

New television picture "Clorifier:" Easily odiusted to remave any antemno.fed inter ferance causing picfure distartion: FM, diothermy, SW, ignition, amoteur, adjocent shonnel, etc. Does not oftenuate signal. Actually tunes out unwonfed sig. nol. Matches any antenna. Mefal case, finished in brawn enomel. Eosily installed. With instructions. Size, $4 \times 31 / 4$ $11 / 2$. Shpg. wf., 7 or.
TS.123-list 7.50

## MILLER HI PASS

 TV FILTERReduce inferference from indus. trial, commerclal and medica equipment. Also "Ham' sig nals below 40 Mc. No prac fical attenuation of TV signal abote 40 Me. Simple instollation. Can nect to TV set ontenno terminals. Size $11 / 2 \times 17 / 5 \times 31 / 2$. Shog. wi.. $1 / 2 \mathrm{lb}$. TS.321-300 Ohm Line Eo. 3.23

## JFD INTERFERENCE ELIMINATOR



Gats rid of oll interference below 50 megs -ham-diathermy - industrial-uelc. No

Mi-poss libter pastes ofl obove 40 me lejects all lepiects all below 40 mc
Automotically - liminates

Net 2.97

## TV INSTALLATION ACCESSORIES

N

## - BIG SAVINGS• SCREW-EYE INSULATORS <br> 31/ wood-scrow type with genvine polyethylene universal inserts $11 / 216$. <br> Tr.10-box of 50.98 <br>  <br>  <br> UNIVERSAL TWIN-LEAD CONNECTORS The plug of one thousond uses. Fits oll roons mission the sock- ots os well os $1 / /^{\circ}$ errystol holder ond octol tube socliets. Solder less. Shpg. wt., 2 or. 15. 102 <br> Motes with tronsmission line plug above for constant imof 300 .ohm line. Shog wrection TS. 101

| TWIN-LEAD POLARIZED |  |
| :---: | :---: |
| CONNECTORS |  |
| Potyitrene block, -2 |  |
| Ir polorlzed no mat nected. For stando holl measures $\mathrm{V}=\mathrm{a}$ | how often discon 300 ohm line. Each |
| TS-103-per tee |  |

## $\frac{3}{2}$

TWIN LEAD SOCKET Speeds splicing witho
Ts-104 W1., 2 or. 118 ea. 10 for 99e
MOSLEY ANTENNA CONNECTOR ror quick. solderless con. nection of lead in to N antenno terminal. fits rs-101 socket. Low.lors polystrrene and non-for. raus motal. Standord $1 / 2^{2}$ pocing. Shpg. wt., 2 az TS-35


## BAKELITE KNIFE SWITCH



Quantity limited. Excollent for TV an tenno switching. Heary metal parts mounted on bokelite bose. Double pole. double throw. Shpg. wi., 4 ot
SW. 24


## DUPLEX tV receptacle

 \& WALL PLATE
## Complete, convenient pack

 oge. Use for 2 TV sets or TV and FM. Neal. prafessionol installo. tion oppeorance. Firs stondord outlet box. lvory only. Shpg. wt., !/ Ib
## TS-249

TS-247-2 Contort Plug for 300 Oh
Leod
T5-295-Ouplex TV receptocle Net . 18 plote providing TV receptocle with wall plate, providing one 300 ohm \& one 4
wire outlet. List 2.03 Wi .. 8 oz . Net 1.20 TS.296-4 wire plug for obove, 300 ohm leods. Lht .59 Shpg. $\mathbf{w 1 . , ~} 8$ oz. Net .34
 The complete socke and olote combinotion. - puts both outlets in one locotion. Use with
standard wall boy standard woll box. lvary only. Shpg. wi. $1 / 2 \mathrm{Ib}$.

## PULTI-TV wITH

Idecl for hatels, mo multi-set instollo tions This new plug Mons. This now plug
contoins on isolatar contoins on isolator
circeuis that can sup. oly TV signol to 25 ply TV signol to 25 or 50 TV receivers from one antenna, depending on slanal strength. Shog. wi.. 2 oz.
T5-297-List 1.97 $\begin{array}{ccc}\text { Net eo. } 1.16 \\ \text { Lots of } 3 & 1.05 \text { eo. }\end{array}$

MAGI.PIUG
 $\frac{T S-297}{T S-298}$ ofs of 3
"CHEATER" EXTENSION
A 6 ft . extonsion for RCA. Philca, G.E. Admirol and other interlach type sets Handy for service hit and wark bench

## $\theta$.




6 permanent onchoring. Made of golvanized steel. Ts-7110 02. 5/pkg.5s eo. 5 for 23 7. DRIVE RING Acts os dependable Inchor for din guy wive whon hommered in of an ongle. Made of solvonized steel. T5.74. 10 or. (5/phg.) 5 reo. 5 for 238 8. "TAPPEE" STANOOFF INSULATOR Designed especiolly for use with open line Iransmission wire installations. Ideol for use as onchor point. spocer ond ele. Polystyrene block and golvanized steel hordwore. Av, wt., 5 oz. (5/pkg.).
15-291-5" wood screw.13e eo. 5 for 558 15-292-71/" wood screw

148 ea. 5 for 80
T5-293-5" strop lype 158 ea. 3 lor 39 a T5-294-71/3" slrap type $168 \mathrm{co}$.3 for 418

## INTERLOCK LINE CORD $\rightarrow$ A <br> interlock line cord.a

 Replocement cord for RCA. Philco, GE, Admiral, and others. It hos regular mold ed plug on ane end and speciol rubber plug on the other 10 fit TV sefs. Underwriter's labaralories opproved. A very handy thing to have in your service ki or on the workbench. Shog. wl. 1 lb. 15-105-6 ft. brown cordINTERLOCK TV LINE SOCKET-B Conventional mol inferfock sacke Stondord type used on all television re ceivers. Heovily ploted contoct pins, $11 / 4$ mounting conters. Shpg. wi. 6 oz
75. 106
.09
RCA 240A1 TV SET COUPLER
Operates iwo or more sets
from a single ontenno. Easy to instoll - self-confained wood screw. There's no need to cut or splice the lead be. couse connections ore outo. matically mode when t serew caps are tightened. Shog. wi., \& oz

## 賏CA 240A1



TV
TUBE
'BRITENER
.79 EACH in lots of 10
Absolufely no tools or soldering needed for instolling this hondy ineapensive iube reiuvenoior. You simply oftach iwo plugs os directed on the instructions. For mag. netic tubes ond PARALLEL CIRCUITS only.
Renews brighiness controst. Wi., 8 oz. Eo. MS. 12 in lats of 10, each.79- singly. 89
Wen WINDOW FEED-THRU NO DRILIING


At last a feed-thru thot posses your iv signol without drilling, breaking or dig. ging and withous signol loss. Just use odhesive supplied to offoch units one to wires. Quick eosy pand and offoch your wires. Quick, sasy and effeclive. Shpg. wi. 60 oz
9. MAST CLAMP Notched retoining clomp holds 2 morts firmly in sturdy U-bolf. Golvonized sleel.Wf. 4 oz. $12 /$ pko 15-96
10. U-BOLT Mode of golvonized steel. Supplied with nuts and woshers in ploce. TS.70 4 az. (2/pkg.). 6 ee. 2 for 10 11. ALL-ANGLE MOUNT Permits setting of $1 / h$ to $1 \frac{1}{4}$ " mosts of mest suitoble ongle for moximum reception. Rust-rosistont steel. With mounting hordwore. 15-83 8 oz. (3/pkg.). 318eo. 3 for 81 f
12. QUICK CLIP For speedy simple oftochment of ontenno leodin to TV set. Con't short out. Av. wi., 10 oz. (5/pkg.).


A new Universal picture lube brightener designed for application on $110^{\circ}$ picture tubes. A single heovy-duly unit which performs four woys. A simple odiustment odapts if for either series or parallel wired filoments and it con be used on electromognetic or electrostolle focus lubes. Shog. wi., I 1b. TS-283-For Syivonio Troe $110^{\circ}$ Tubes Net 2.20
TS.284-For RCA Troe $110^{\circ}$ Tube
Net 2.20


Restores brightness to dim TV picture tubes. Operates on oll tyoes-magnelic ar electrostalie-ond in all circults-parallel ar serieg 5 hpo. $w$ *., 10 oz. Eo
TS-170
Singly
each 1.29

## COLOR

 TUBE "BRITENER"extend the useful life of
all three-gun color tubes
Single-purpose outoformer britener. Pro. vides increared filament valtage to boast electron emission and relurn full contrast and calor quality. Shpg. wt., I lb TS-299-Lis!

## POPULAR PRICED TV ACCESSORIES

 up to ?" diam eler. Fully adiustoble can be easily ro toted. Complete with all necessany hard ware. Shpg. wt., 5 lbs.

Ne1 1.10


12" WALL MOUNT
Campletely canstructed of sfeet, using ex tra heavy gauge steel lubing which 'will not bind. Protected against corrosian by the ALCOTE finish. Speciol "sure grip" U.balts. Halds mast up to $11 / 2^{\prime \prime}$ O.D Tripad leg for ane section. Shog. wi. 3 lbs.
TS-2 50
Singly Each 2.19

ADJUSTABLE
TS-88
3....

NLL MOUNT
Lots of 3 Each 3.06

## All STAINLESS <br> STEEL CHIMNEY MOUNT



Mode entirely of stoinless sieelt The clips - rivets clips - rivets - screws - nuts - every piece is stainless steel. Everlasting-rusi prool-nan corrosive. Will take masts placing-do it pance and forget it! Com plete with $2-12 \mathrm{ft}$. stainless steel straps and oll hardware. Shpg. wt.. 4 lbs T5-245. List 8.05


## NO RUST BARGAIN MOUNT <br> $\underset{\substack{\text { Singly } \\ \text { foch }}}{\substack{1.98}}$

The ideal chimner maunt for life-lang satisfoctory service under the most severe conditions. Hot dip galvanized steel "Y." maunt. Two 10 ft . stoinless steel straps and stainless steel seals. And of Lafoy TS-90. ...........................ech 1.98 Lals of 3 Eacli 1.80

## $4^{\prime \prime}$ SNAP-IN VENT PIPE MOUNT

## $\frac{\pi}{4}+8$

Mast snaps into brackef. Snap in feature eliminates holding af mast while opply ing hardware. Single front locking car liage ball far easy ane hand lightening Sturdier, mast held clase ta vent pipe. Heavy gauge steel-bright zinc finish.
ONLY balt ta assemble bolt to secure mast in plose balt to lock bracket to vent pipe. Shpg. wf., 2 lb T5-289. List Price 2.10.... Net each 1.23


## WALL BRACKET

On of the most popular and proctical ontenna maunts. Secure. Iy grips all masts from I'. to $11 /{ }^{\prime \prime \prime}$ O.D. Made of rust resistant
steel. Supplied with hardware steel. Supplied with hardware. Shpg. wi., 2 lbs MS-13. Singly
In lats of 6
ea. 49
NO RUST ALUMINUM BRACKET Corrioge balts and frant lacking nuts for easy installation. Tokes masts up to $11 / /^{\circ \prime}$. Two brackefs complete with speciol full thread her head lag screws. Made of high TS-288. List Price 1.92 Net each 1.15 In lats of 3 each 1.05


STAINLESS STEEL
© STRAP KIT 1.49

Replacement kht. Cansists of $2 \mathbf{1 2}$-ft stoinless steel strops, stainless steel seals, iriangular eyebalts, lockwashers, hexnuts. Puts an end to rust and corrosion. Shpg. wt. 2 lbs.
TS-53. Lats of 3 .......................Each 1.34

## 6" ALUMINUM WALL BRACKET

Heavy gouge aluminum. Carriage balls throughout. Full thread hex head lag serews. Masts fust "snop.in" for easy serews. Masti fust "snop-in" for easy
handling. Tripod legs. Shoa. wh. 3 lbs. TS-156

4-WIRE ARRESTER
Chisel point contact ellmi. nates stripping; tightening wing nut completes installa fion. Low-lass polystyrene case. Alsa uso ble whth standard IV.FM ribban. Shag wi.. 1 1b
TS-59. Singly
Each .88
In lols of 6
Eoch .79

JFD "UTTLE GIANT" TWIN LEAD LIGHTNING ARRESTER Far Regular ar Oval Jumba Iwin lead. Underwriters Laborotories spreading of line necessary. Smalf size permits easy mounting onywhere - inside or oulside. Complete with ground lug and screws for wall ar window sill maunling. Special high dielectric, flame-retarding plastic canstructian does not vary line impedance. Insures maximum signal transfer TS.58, Singly Shpg. wf., 9 ox. Each .73

Lats af 6. Eoch . 66

 UHF-VHF
JFD ATIO3 CIGHTNING AARRESTER ATI03. Far tub. Jlar ond avol Underwriters lab. oratories Appraved. Waterpraof porcelain whth 4" aluminum graund wire and stain less steel strap. Shm. wt., 5 az TS-27.
list \$2.25. Net
1.32


JFD 3-1N-1 LIGHTNING ARRESTER UHF/VHF


AMPHENOL UNIVERSAL ARRESTERS
Tokes Rot fubulor VHF or FM. Guards both the set ond the signal. Lowest measurable loss-only $1 / 2$ db at 825 MC. Shpg. wt.

AMPMENOL 114.328
NET .79

## JFD MATCHING TRANSFORMER



Maiches any 72 ohm TV set ta
ony 300 othe on. ony $\mathbf{3 0 0}$ ohm onuse of noise free 72 ohm coar line with 300 ohm in col-plast far climate proaf permonency. Transfers maxistrength. Shpg. Wf.. $1 / 2$ ibs. Eo, 2.06
TS-236 AC-50 IIsi 3.50 Nel Eo,

JFD OUTDOQR SET COUPLERS NO MESSY INDOOR WIRING

## in LONG "LOSSY" LEADS - encopsulated in calplast for moximum weather proofing. Minimum insertion lass due ta nefwork of bifilar cond. Opimum solation tween sets. All match besealed in oir tight case maunted in a bulyrate housing. Shog. wf., $1 / 2$ lb. Net list <br> IS-23. AC. 402 set $300 \mathrm{ahm} \quad 3.502 .06$ T5-233 AC. $60 \quad 3 \mathrm{set} 300 \mathrm{ohm} 4.00 \quad 2.35$ T5-234 AC. $704 \mathrm{sel} 300 \mathrm{omm} 4.50 \quad 2.65$ <br> ANTENNA MATCHING "BALUN" COILS

Aulamatically match ontenno to input circull impedonce. Impedonce ratio 4:1 replacement for RCA Philco, Matoralo, efc. Und ta cansiruct the finest sel caup ters and matching transfarmers, Set of 2 complete with instructions. Shog wt bor TS-269

Net per poir . 66
TV ATTENUATOR H-PADS


PCN- 10


Permits attenvation of TV signal in antenno insfallations to secure aptimum performance. Matches the signal strength ta the requirements of the receiver. H-pad a combination of 5 resistors on steatite ceramic plate, has 4 lerminals and is in. stalted in series whit the 300 ahm iw in lead. Shipg. wt., 3 oz.


Special sow-footh washers grip transmission Itre securely without stripping or cut. fing wire. Designed far flat, tubular, aval or apen types. Constructed of law-lass material that assures less capacily and in. ductance, resulting in less ilne loasting on UHF. With mounting screw and steel stran U/I approred shog wi 10 ar sirap TS-11 - Lots of 10 ..............Eoch 29


## BIG VALUES IN TV ACCESSORIES

 TV PICTURE TUBE SHORT ELIMINATOR- Burns off Picture Tube shorts - Lengthens Picture Tube life

Eliminotes expensive piciure tube repoirs. No eloborote oquipmant needed. Repoirs grid ond calhode thorts in wo minutes-without pulling the chossisl Eosy to usedeconfominates cothodes-restores operotion of brightnes control. Con be used os often os needed. Simple "plug in, swith-on" operotion. Works with ony TV oicture tube
Shpg. wi., $1 / 2 \mathrm{lb}$
T5-282
Ne1 .99

- ONE JUMPER FOR ALL TV SETS
Extonds power from bock of TY set-unnecessory to move furniture to gel to woll plug. Turns off IV set from reor. Two hondy outlets tor soldering iron ond test equipment. Soves time ond elfort. Shag. wt., I lb.
TS-243 RETRACE ERASER


Destgned To tliminate Thetrace limes Thls plug-in elec Ironic netwark permits the sel owner to lurn up the brightness ond controst controis and enjoy optimum TV reception without the in. terference of onnoying lines. The RETRACE ERASER is masily instolled by plugging it in. To the bock of the cathode roy tube ond connecting one leod to the yoke. The in conllation can be done in less thon two min stallotion can be done Grid Type
For sels where video signol is fed into Grid Circuit of CRT.
TS-119.

## Cothode Type

For sets where video signol is fed into cath ode circuil of CRT.
TS. 157
Net 2.00


TUBE TESTER CRT ADAPTER

Convert ory fube tester tinto o CRT tester, No need to remove tube from cobinet. Test No ny picture fube for shorts, emission. $48^{\circ 0}$ leod. Shpg. wl. 12 oz . 15-158

Net 3.38

## P <br> TV <br> CHASSIS CARRIER

Sole, easy woy to corry TV chossis. Smaoth lubuler hondes. Positive lock on edge of chassis. Connol slip off. Holds until rechassis. Connof sis proctically oll TV chossis. Ellmleased. Fils proctically oll iV chassis. ElimShpg. wi., Ib
${ }^{\mathrm{r} 5221} \quad \mathrm{Net} 1.91$

TV CHASSIS SUPPORT


Just slip on edge of chossis-lighten thumb serews-and prop chassis in most convent. ent worthing position. Mode of heovily ploted steel. Foolproof time sover. Con ba lostened to bench. Shog. wi., 2 lbs TS-220


Exceptionally efficient line noise ellmi thotor. Utilizing duol ferrite core coils hoovily wound. Removes from line noise coused by motors, industrial RF, neons oppliances, elc. Particulerly uselut on TV and FM sels, radios, tuners, reford ploy ar. Automotic ortenuorions of unwonted disfurbonces. Shpg. wt., $11 / 2$ lbs
T5-267
Nel 3.75

10-PASS ADJUSTABLE LINE FILTER


De luxe ADIUSTABIE to. Poss LINE filter completely suppresses and eliminotes of naise picked up thru the line $A C$ or $D C$ - Exclusive Variable filter control

- Automatic allenuation above 10 KC 5hpg wi., 16.


## "3-P1" TVI FILTER

## - 14 COMFONENTS PRECISION

 CAPACITORS- PRECISION COILS

Lowest possible losi-maximum 3 dbs Sharp cut-off at 54 Mc . Attenuation stop bond exceeds 46 db is. Effectlvely suppresses interference coused by "ham" presses itler-diothermy ond $X$-roy-ieni-tion-rodio tronsmilter— $R$ F heating systems-apollonces-neon signs, Reduces "ysems-hopplionces-neon signs. Reduces snow coused by.. Frea. noise picked up of onfenno. Printed circuit design gives improved reliobility - low cost - light winghi-d sineored triple section trap. Easy to in. stoll. Complete with instructions. Shpg
wt., 4 oz. T5-219.................... 1.80

COLOR GUN KILLER
OPERAIES RED, GREEN
OR LIUE GUMS IMDIVID. OR ILUE GUNS INDIVIDTIONS TO MAKE PUEITY ADJUSTMENTS


Enobles eoch gun of the three gun kinescope - be operoted singlr or in combinotion. Avoids cutting or disconnecting leods 10 moke color purity odiustments. Shpg. wi. 8 or.
15-301
COLOR KINE ADAPTER WIT TEST COLOR PICTURE TUEES ON DLACK AND WHITE TUEE TESTERS

Enables eoch gun of o three-gun color pic. ture tube to be individuolly lested on tube testers designed for block and white pisture tubes. Shog. wh., 8 oz.
TS-302
.Net 2.63

## NEW! TV TUBE RESTORER

locates and corrects for - open cathode - meater to catmode SHORT - OPEN CONTROL GRID - CONTROL grid to cathooe short - LOW emission - COMBINATIONS Of above

[^10]
## LIGHT AND TELEVISION ClOCK



Ploced on 100 of TV cobinet the $\$ 700$ tite Clack provides proper omount of bockground light for televiewing. Accurote, rotating numerol trpe clock. Wolnut finish plostic cose. For 110 V ovele AC only. Size, $5 \times 5.7 / 16 \times 3.7 / 16^{\prime \prime}$. Shpg. wt., $21 / 2 \mathrm{lbs}$. ML-11, ...............incl. acise tox... 8.14

|  |
| :---: |

ICTURE TUDE TEST POINT ADAPTER

Ideal for toking meosurements of voltoge, reslistonce and video from the base of the picture tube. Just insert between $C R$ fube bose ond socket. All connections readily occessible. Soves time ond increases servicing efficiency. Shigg. $w f$. B oz.

## MS-43

## ETED EBY TEST POINT ADAPTERS

Designed to fit ony iype of minialure 7, 9 ond the stondard octol socket. The contoct tobs ore long enough for connections with test probe or olligotor clip. Ideat for in. circuit meosurements from top of equipment. MS.23-for 7 gin minioture Net eo. 1.32 MS-24-F or 8 pin octol type socket MS-25_for 9 pin novol typet 00.1 .29 Shpe. wi. 8 oz

Net eo.
1.47

TEST POINT
ADAPTER
FOR $110^{\circ}$
PICTURE TUBE

For Sylvonia lype $110^{\circ}$ tubes. ests.
MS. 464 List 3.25 eo.................Net 1.9 MS.464-list 3.25 eo............Net 1.91
For RCA type $110^{\circ}$ fube. ided for incir. cuit volloge and current tests.
M5-465 - 3.9
Shpg, w1. 8 oz


BARKHAUSEN
oscillation

## ELIMINATOR

Romove those vertical block bars (Barkhousen Oscillotion) from your IV screen with this Perfection B.O. Eliminotor Simply slip the B.O. Ellminator over the horisontol sweep oupput pube ond odiust like on ion trop mognet until the inter
T5.124-Shog. wl., $1 / 2 \mathrm{ib} . . . . . . .$. Net .73

FUSIBLE RESISTORS


Replocements for Motoroio. Crosley, Emer. Replocements for Motorolo, Crosley, Emer-
son, Roytheon, Philso, Hofimon, Hollicroff. son, Roytheon, Fhilso, Hoflmon, Hollieroff.
ers, Trulone, Sears, Montgomery Word, ers, Trutone, Sears, Montgomery Word, Sentinel. Arvin ond mony othersiShpg. wf.
TS-253-Kit of 4. 5.6 Ohms Net
TS-254-Kit of 4. 7.5 Ohms .76
TS-256-Kit of 4. 22 Ohms Eoch Kit
IF-323 Kit of E-4.7 ohms ralues Not.es. 25 GE REPLACEMENT FILAMENT RESISTOR MIT

Reploces filoment resistor in over 70 Generol Electric sels. Kit of 2 resistors ond instrictions. Shpg. w1. 2 oz
75. 146

Nef co. 1.44


2 MEG. 2 WATT $1 \%$ H.F. RESISTOR Popylap replecement in M.E. circuit of elmost TS. 145


ION TRAP MAGNETS

## FIXED TYPES

Single magnet, 45 gouss. Replaces most single units. TS-208..tots of 6 , eoch 19 e Shpe wt. B oz. Singly, eoch.... 24e Doublo mognet. Universol replocement for thousands of sets. TS-125 ..............Net 59c

## MILLER ADJUSTABLE ION TRAP



Adiustoble between 32 and 55 gouss. Toke the ploce of most single.magnet ion trops in use. Thumb-screw odiusiment permals selection of ony strength within its ronge. eosy replocement where original volue is eosy replocement where originol volue
Miller 6295
Net 73 c
HORIZONTAL BAR OENERATOR
provides Herisonial
Llanes On Any
f, V. Set
Qulcti-Accurote Alignment


Generates o series of equally spaced hori sontol lines 10 indicole picture lineority Simplifies precise selfing of roke. Makes possible accurate positioning of focus coil or mognet. Quick odiustment of vertical linearity, height and centering. No bulky oxpensive equipment needed. Plugs onfo . picfure tube. Completely self-contoined. TS.129.....Shpg. wf. 8 oz. .......Nef 1.12

# BIG VALUES IN TV ACCESSORIES 

UNIVERSAL EBY TV TESTING KIT Makes possible testing sets with picfure fube alectrically connectes in circuit, but removed from chasis. Reduces danger of contect with high voltege ferminals and rube breakage. Corsiction of anode tube soctet extension harnass and sturdy platic corrying case. CR! EXTENSION Is for both ELECTROSTAPIC and ELEC. TROMAGNETK tubes.
TS. 141 Shpg. wt. 2 lbs. Net 3.18 PHILCO SERVICE KIT
Complete kit of hornesses to service ony Phitco TV sel inferchossis ond onode extonsions. Shog. wt. 2 des T5.172


## color iv

 HARNESS KITCOLOR HARNESS MIT: Contolns extension harnesses necessary to service most color sets. Includes CRT, MiYoltage, deflection ond interchossis extensions. TS-274-Shog. wt., 2 lbs
UNIVERSAL COLOR MARNESS KIT. COIt Net 6.47 extonsions to seruice all color sots, including RCA. In. cluder CRT, tuner, convergence, hi-volloge, ond interChossis ontensions.
$T 5-275-5 h p g . ~ w t ., ~$
2
lbs. COLOR CRT EXTENSION: TS-276-Shog. 8 - 8 wires, for oll color CRTi. TUNER EXTENSION: 4 wires, for RCA sofs TS-277-Shps
CONVERGENCE EXTENSION i2 wires Ior CONVERGENCE EXTENSION: 12 wires, for oll color sens. TS-278-Shpg. Wh., 8 o2s. MI-VOLTAGE EXTENSION:
TS-279-ShDg. wt., 8 ozs.


Highly emcient 3 sel coupler. For coup. ling 2 or 3 TV or FM sets to one onionno of ony type. No interoction-less thon 6 db insertion loss. 40 to 50 db relection ralio. Shos. Wl., 1 lb . TS-266 Net 2.97


2-SET COUPLER .85

TRI-SET COUPLER
.85 in sets of 3
Uses one antenno for two sefs. Compact electronic set coupler ossures performance of iwo TV sets on one installiation. Easy to connect. Nothing to $g 0$ wrong. Shpg. Wt 1 lb.
$\mathrm{MS}-18$ Eoch . 90 In lots of 3. Eoch . 85

## SIGNAL ATTENUATOR



May be uned with all TV iets troubled
with encessive siowith encessive sional. Eliminates poor sync., multiple im picture ite. when
coused by slonal averlosainy lignal reaching set. laduces most cressmodulation effects. Adustable far ell signal erest. Simple to mount-simple to insteli. Shpeg. Wet. or. T5-218 Singly, each ..ase 1.94 Net eech in lats of 3

Net 4.76

Net 8.53


UNIVERSAL TV \& CRT EXTENSION CORD
Permits lesting of picture tube oufside of chassis. Fits any duodecal bosed lube. 5 color coded leads. $36^{\prime \prime}$ long male ond female bokelit sections with full socket ond 6 leods for electrostotic as well os mognetic fubes.
TS-138-5hpg. wi. 1 Ib
ANODE EXTENSION
For connecting picture tube while outside of set when testing. 30" long for gloss TS-46. Shpg. wi. 3 ot Some
TS. 171 obove, but for metol rubes

TV SECOND ANODE CONNECTOR
Not 1.26

For TV plcture tubes. Silver ploted snop butfon. I h " diomeler rubber prolected cop. Supplied with $12^{\prime \prime}$ wire leods. Shps. WI. 3 or.
T5-47 lots of 6 , eoch, .26 Simgly, each …... . 29


UNIVERSAL YONE EXTENSION HARNESS

Used in coniunction with the tube harness ond the anode harness to focilitote servicing. Provides extension from yoke and coll Assembly to chossis. For any mote or model using octol plug and sochets os extension. Shpo. wf. 8 oz.

Not 1.32


Join ony combination of VMF, or VMF. UHF ontennos to use one tronsmission line. Stable circuits seporote ofl chonnels outomoticelly and ossure olmost $100 \%$ signal transfer. Highest Isolotion between seporote inputs elliminotes interoction Weotherproof. Complete with most clome Shpg. wt.e 1 ib
Stock No. To Couple Antennos Net Stock No. To Couple Antemnos Net
TS-159-VHF(2.6) and VHF(7-13) 2.06 TS-159—VHF(2.6) and VHF(7.13) 2.06
TS.160—VHF(2.13), UMF(14-83) 2.20 TS.160—VHF $(2 \cdot 13), ~ U H F(14-8$
TS.161 $-\operatorname{VHF}(2.6)-V H F(7-13)$

## TUNER

 Cleaner- Injector Type
- Cleans a Lubricases - Ellminates Noise
- Long Lasting Protec.


## 90

New, wox-free Iubricant Contoins no carbon ref Non-taric, non-inflammable. Mypo-strle iniector neede prevents drift ond drlp. Retords Corrosion - keeps tuners cleoner longer. Easily reoches hord-ta-get of spots. Does not offect electricol properties - hormiess to insulation and soldered foints. Eosy-to-use - long losting. Shpg. wh. 12 oz
TS-324
Net .90
and UHF(14-83)
and UHF(14-83) 2.65


## TUNER LUBRICANT

### 1.19

A new, detergent-oction lubricont with sillcone oil odded. Re-cleans and re-fubri cotes with each rotation of funer or control. Eosy ta use, lust apply, and rotate | TS-325 ................. Net 12.19 |
| :--- |
| Nith free iniectar. Shpg. 12 or |



Requires mo bollery or line voltoge. A whisper con operote this welf. powered, vell-contoined telephane. Excelteat speech fidelity Unsur. possed for ute in erecting TV antennos. Ideal for home or ofnce poom inter communicotion Efective over distonces to hom or ofice No. 16 twisted wire, up to 15 miles with No. 19 twisted wirs. 12 units can be connected in parallel. Unoble. With singled wire and plound tefurn. Aptroclive blach, moldod phenolic hondref. Com. plete, reody-io-aperote. With $31 / 2 \mathrm{H}, 2$-conductor, coble, mest clips list $5 i 3.75$. iniulotors. Less extension wire. Shos. Wi., $11 / 8 \mathrm{lbi}$. WL-21-WNEELEE SPT- 102 HANDSTT. Per Phone. Net 9.62 2 cond. wire or
BELDEN ESE
per ff. . 035
BELOEN 4
per 100 f1. 2.10

## WHEELER SOUND-POWERED PHONE

## STANDARD COIL "GUIDED GRID" TUNERS

## - Newer - Smaller. Universal Replacement

Newest developmont. Greotly improved goin, signol. to-noise rotio, and overoll performonce. Foctory preset If frequency is odlustoble to fit porticulor pet. Replaces most older types of standord coll tuners. Universol shoft is easily cut to needed size. Complofe Universol shoft is eosily cut to needed size. Camplete
with tubes ond insteuctions. Shpg. WI. 3 Ibs.


Net 21.50

| $\begin{aligned} & \text { stock } \\ & \text { no. } \end{aligned}$ | votr | $\begin{aligned} & \text { EACH } \\ & \text { SINGLY } \end{aligned}$ | EACH <br> LOTS OF |
| :---: | :---: | :---: | :---: |
| C-607 | 32 KV | 29 | 19 |

## LAST MINUTE SPECIALS

## NEW GRANCO FM TUNER



Provides superb high fidelity FM Reception by fust plugging into any amplifier and speaker, phonogroph, Y. V.. Custom Music System, or tope recorder, Super selective eception even in fringe areas. Exclusive no drift cooxiol knobs. Built in antenno. A tubes. Madern style cobinat. Site $01 / 4^{\prime \prime}$ Wide, $4 "$ Deep. $4 / z^{\prime \prime}$ High. Shpg. wi., 4 Ibs. Granco 7 300G Gunmetol Blue Nel 18.75 Gronco I 300E Ebony

Nel 18.75

## COSINE YOKES



## SPECIAL

VALUES
POPULAR
REPLACEMENTS

## REPLACEMENT FOR

 RCA 7495270 direct drive cosine yoke. Exocy replocement for RCA 74952, Stencor DY10. Merit MD30 and Ram Y70F30/5. Complete with leods ond naiwark. Shpo. wi.. I Ib. 3.75 $70^{\circ}$ cosine. Herizontal inductance $8 \mathbf{M H}$, vertical induct. once 50 MM . Reploces Stonsor DYBA, Merit MDF. 72 and Rom Y7OFOB. Complete with leads ond network, Shpo. wi.. 1 lb.
$70^{\circ}-30 / 50 \mathrm{mH}$
$70^{\circ}$ cosine. Herizontol inductonce 30 MH , vertical induct. once 50 MH . Reploces Stoncor OY12A, Merit MDF71, Rom 70F25. With leads and network. Shpg. wi., 1 ib 75.19


Full range $4^{\text {ne }}$ n $8^{\prime \prime}$ aunitiory speoker in on ocoustically consprucled, finished weod cobinet. Two buill-in volume controls ollow use of exfension speoker alone. TV speoker controk ollow use of both fogother for stereaphonic sound quality. No olone, or both togather for stereaphonic sound quality. No nevel. Wondertul for the hord of heoring when used as o close.up personal speoker. Mahogony finish, with gold grille. Shpg. wl., 4 tbs.
SK-76
Nol 7.38

## QUTRUT KFRS FOR $6 K 6 \leq 12$

 4 wattwire
wound
cocus
comthol


Primary 6500 ohms. Motches $6 K 6 . ~ G A O S$, $6 F 6$ to 3.2 ohm V.C. 1500 V insulation. Mig centers $2^{\prime \prime}$ " $1 \%$ "high. Shps. Wi. 11 b
Th. 69 Nel 39 COHTROL Replocement for moiority of TV sels. 4 watt 1500 ohm with innurled shofi. Shps. Wi. 7 ox
VC- 12

## NEW! GRANCO FM RECEIVER



Smort, new design, combined with odvonced engineering. result in this versotile FM recelver. So comport it octuolly fits in the polm of your hond-yel its porformonce exceeds thot of sels severol limes the size. Enclusive new ROYAL "G" FM luner with Cooxiol Frequency Control assures drift-free performonce. Speoker and cobinet ore specially designed for optimum ocoustic response. Eosy view mindow dial and fine vernier tuning for easy opero tion. Powerful circult provides highly efficiont operation by use of mulliple purpose tubes. Complete with bulth-in ontenno. Avoiloble in cholce of two.tone color combino. tions. For 110 V. AC.DC. Size 91/2". $\mathrm{m}^{\prime \prime} \mathrm{d}^{\prime \prime} 5^{\prime \prime} \mathrm{h}$. Shog. wt., 5 lbs
GRANCO 601 P -Grey and White. List 29.95. Net 24.50 GRANCO 601G-Turquaise Green and White.
list 32.95
GRANCO 601 -Coral and White ist 32.95. Net 24.95

## NEW! GRANCO AM-FM RECEIVER



This mognificent AM and FM rodio is so compoct it octually con fit in the polm of your hond... yet it hos omozing volume ond offers comple: rodio reception. The powerful chossis employs double duty tubes to provide 8 tube per. formonce. The sosy-view window diol utillizes the prin. ciple of vernier tuning to provide occurate pinpointing of stotions. High sensitivity .... wide bond soleclivily : ocoustic chomber sound system. now ROYAL "G luner. bulti-in antennas for both AM and FM powerfut Alnica $V$ extended ronge speoker. Avoiloble in chaice of ottractive iwotone color combinatlons. Size $91 / 7^{\prime \prime} \times 4^{\prime \prime} d \times 5^{\prime \prime} \mathrm{h}$. For 110.120 VAC.DC. Shog. wt.. GRANCO 701 P -Grey and White. List 39.95 Not 31.95 GRANCO 701G-Turquols Green and White.
List 42.95
GRANCO 701R-Coral and white, list 42.95. Net 32.45

## SPECIAL LAFAYETTE HI-FI AND PA ACCESSORIES



## REMOTE MICROPHONE VOLUME CONTROL <br> 

No more running to the $P$. A. omplifier to odiust volume when you are using a mike. Now, contral volume output right of the microphone. Altoched befween the microphone and the coble, this complefely shielded contral hos proctically no insertion loss and induces no hum. Con be used ot ony desired dislonce.
Fitted on one end with a femole miko Connector and mole mike Connector on the opposite end. Finished in gleaming chrome, its oppecrance will blend in with the mest expensive misrophones. Comes completely reody to ust. Shpg. wi., 12 oz
MS-755 Remote Volume Contral

## FAMOUS BRAND MOLDED PLASTIC TUBULAR CAPACITORS



Overstock of one of the best known copocitor monu focturers. Fresh, new slock, Molded in entro hord plostic, tested of twice roled voltoge, with solidly onchored leads, At ofrection of their usuol price. Avg. Shps. wt., 5 oz.

| Steck Ne. | CAP | DCWV | 10 fer | 100 for |
| :---: | :---: | :---: | :---: | :---: |
| C.741 | 006 | 600 V | .45 | 3.95 |
| C.750 | 001 | 400 V | .45 | 3.95 |

## VIDEO DETECTOR COIL WITH INIO5 DIODE

## Lot of 10 25c ounariry umiteo

The INIOS Diode which iuss snops oul of its holder is werth more than the price of the whole ossembly. Enact re. placement for Sylvanio part 57.73869 .1 . Shpg. Wi., 8 ors. SP.90-In lots of


| NO. | RATIO | MTG. CENTERS |
| :---: | :---: | :---: |
| TR.35 | $8.5: 1$ | $3 \%^{\prime \prime}$ |
| Th.39 | $44.4: 1$ | $2.13 / 16^{\prime \prime}$ |
| TR.74 | $45: 1$ | $2 \% 4^{\prime \prime}$ |

ANY TYPE ShDg. wh. 11 cz
Lats of 3, each
TV CHOKES ANY TYPE
49c
LIMITED QUANTITIES



## LAFAYETTE'S CATCH OF THE CENTURY IN RODS AND REELS

- Genuine tubular super glass rod stands roughest action.needs minimum care solid.comfortableNATURAL CORK GRIP SINGLE WIRE-NON FOULING GUIDES
A first quality tubulor tholfowl fibreglass spinning rod-plenty ofopower, action and eye appeal. All the features of rods selling far above lafayette's price. Solid-comfortable-naiural cark handle with anodized aluminum reel retaining rings. Holds reel solidly and securely. Extra large guides with neat, even nylon wrapping. Sealed against moisture. Long, strong extra deep foining ferrule-precisoly fitted. Guides are hard-rust resistant-and properly spaced. Braced tip-top guide. Entire rod finfished in hard, durable, black lacquer. Popular 2 piece, 5 foot length. Shpg., wi, $11 / \mathrm{lbs}$. T-SOI FIAREGLASS SPINNING ROD

Net 3.29


- $51 / 2$ FT. MEDIUM-LIGHT ACTION POSITIVE LOCK REEL SEAT

Finest 2 piese, hollow fibreglass, medium-light ection spin sast rod. Five inch web, shaped sark grip on a die cast oluminum offset handle. Positive, threaded ring, locking reel seat. Designed for closed face spin cast reels! Chrame ploted, stainless steel guides and braced, offisel lip-top. Chromed, slainless bultplate. Extra deep, precisely fited ferrules. Colorful, seoled, nylon wrappings. Fine oction with plenty of bock bone. Casts flies, itreamers, bugs and poppers. Shps. wt., I $1 / 2$ lbs.
IT-SOS FIBREGLASS SPIN-CASt ROO
(C) TUBULAR FIBREGLASS " 7 SEAS" SPINNING ROD


- for fresh and salt water spinningl - actual welght onty 5 ozs.! - compare to rods selling for TWICE AS MUCH
All the extro power you need to tand the "big ones" -in fresh or salt water. Hallaw glass construction for that "live" action-plus "bock-bone", when you need it. 4"cork fore grips $61 / 2$ " sork butt with vinyl butl plate. Extra-large, non-fouling, diamond-hard guide "Snoke" design allows guides to tlex with rod. Braced tip top of super-hardened, stainleis sleel. Fixed reel seal polished brass with shrome retaining collar and lock nut. Glossy black lasquered finish. Colorful, sealed nylon windings. 2 plece blade with extro deep FT-502 FIBREGLASS SPINNING ROD
(D) SPECIAL SPINNING REEL
- gold anodized spool hylon bevel gear - anti-reverse lock

A fine, light spinning reel with all the features found in far more oxpensive reels. Strang-sfurdy handsome appearance. Selective antireverse loek. Chrome plated pickup arm. Body of non-sorroding, ebony finished, aluminum alloy. Housing and spool of gold anodized aluminum for maximum corrosion resistance. Noiseless, smooth running, nylon bevel gear. Handle is removable for storage. Holds 200 yds. of 4 lb . test line. Gear ratio of 310 I . Shpg. wl., I lbs FT-5 12 SPINNING REEL

Net 2.95
(E) PUSH BUTTON SPIN CAST REEL

Closed face-back lash 'ree-push button action. Push button spring release-assures instantaneous line control the mament the fure hits woter. Brass Gears-precision machined to assure long, trouble-free service. Finger-tip Anti-Reverse leverufor mament the fure Loaded Geared Drag Adjustment-may be set for any lension. Attractively finished in triple locquered ebony with gold-anodized spool cover. Chrome plated double handle crank. Insorporates the features and trouble-free performance of whe most expensive reels. Complete with so yds. of 6 lb . line monofilament line and rubber practien plug. Actual weight only $8 \mathrm{y} / \mathrm{g}$ ozi Shpg expensive IT-Sis PUSH BUTTON SPIN CAST REEL
(F) NEW! "SPIN-TACULAR" REEL

- Interchangeagle spools - finger tip antl-reverse

Finest-fastest imported spin reel. Ulira smooth recovery, ratio about 4 to 1 . Full bail, stainless pickup. Positive, smooth drog with click built into spool. Friction free line guide of diamond-hard tungsten corbide. Por when playing, netting or trolling. Metal reel with two interchangeable spools. Capacities of from 200 yds . of 10 lb . line, 340 yds. of 6 lb . line, 100 yds . of 4 lb . line, down 10200 yds . of $\% \mathrm{lb}$. line. "Naturat-form" knob on reel handle, handle foldi baek for starage. Carrosion resistant blakk finish. Complete with extro spool, spool case, cloth bag and Intructions. Actual weight oss. shpg. wt., 1 lb .4 or.
RT-S IS "SPIN-TACUIAR" REEL

## (G) NEWI "7 SEAS" SPIN REEL.

- all the features of the most expensive reets

The "greatest" for surf-easting, trolling, spinning or any solf water Fishing. High pressure moulded of an oluminum-magnesium olloy, sufface treated and anti-corrosion coaled. Eliminates need for the usual care and cleaning assoclated with sall water gear. Unique plonetary gear system crasswinds line for greater line capacity and the smoothest, langest casts you ever model "Back-lash"; is a thing of the past. Fully odiustable, positive drag action. Built right into the spool far amoath, constant tension. Full ball pisk up of chromed bronze. Line guide of super hard chromium carbide. Torpedo handle, spring toaded, folds back for storage. Positive, finger tip anti-reverse control. All the features normally found in the most expensive reeti. Actual weight 10 azs. Shpg. who, 2 ths TT-SIA "\% SEAS" SPIN REEL

## (H) "7 SEAS" TROLLING REEL

- fingertip fre spool clutch - adjustable star orag

Universal salf water reel. Powerful star drag, free spaol, fast reltieve. All metal construction af highly carrosian resistant alloys. Aluminum-magnesium olloy spool. 3 inch diameter side plates-with sotin black, miple baked, rust resistant, permanent finish. Conventional free spool lover. Hardened bronze gears. Counter weighted, lorpedo handle. Chrome plafed, hand polished frame. Self Jubricoting, long losting bronze bearings. Capactity 250 yds . of 27 lb . line. Actual weight 17 ozs. Shpg. wi., $1 / 2 \mathrm{lbs}$. TT-5 IS "7 SEAS" TROLLING REEL


## Thor $\cdot$ SPEEDWAY•SUPREME•THOMAS IND.

THOR SPEEDWAY " 20 " $1 / 4$ " DRILL
 roors. Buill for continuous production on Powerful, Ul approved, universal motar wood or metal. a stoet, $1 /{ }^{\mu}$ in hardwood Boll and sell " capricotity branze beoringe throughout No bod seed 2400 RPM Strong, lightweighi coit aluminum alloy howing S M. fially desioned $e 0$, choin fir proateat loraso. Spe rioly der ith. Grigeer swith. Bocked by Lofoyelte's famous Money THOR SPEEDWAY " 20 "
..Net 11.33
THOR-SPEEDW AY SPEEDSAW


- RATED 3.1 AMPS
- 3400 STROKES

PER MINUTE

- TILTS TO $45^{\circ}$
ast exciting fool on the morket fodoyl It replaces the hondsaw for all types of sowing and takes oll the hard work out of the job. Will cut wood, metal, com. position; cuts straight and true and witl cut bevel angles to $45^{\circ}$ either side of the culting line. Being a small blode, the sow con cut curves, circles, scrails eosily Con be used for long ponel cuts, ripping, cross cutting, even on $2 \times 4$ 's; and it blows awoy the sawdust while cutting. Will cut wood up to $2^{\prime \prime}$ thick and steel $1^{N N}$ thick. Its molar is meant for a lifelime-has ollite bearings. Operates on $110 / 115 \mathrm{~V}$ AC-DC, has on-off position push through slide wifch, UL approved. Comes with I lis saw blode (wood) and wrench, $6^{\prime} 2^{\prime \prime}$ conductor cord. Measurer $61 /{ }^{\prime \prime}$ \& $x \mathrm{x}^{1 / 2 \mathrm{M}} \mathrm{H}$. Shpg. wi., 5 lbs.
THOR SPEEDWAY "17".
THOR SPEEDWAY'"14'SANDER
 performance! motor driven -3450 RPM - sanos -smooths suffs-polishes-ruesi
- USE SHEET OR FREE (WET) abrasivesi
Gel this now top quality sonder for all sonding uses. Here's an orbitol mollion, motor driven finishing sander (no load speod... 3450 RPM) thot sands, mooths, buffs, polishes, or rubs with both sheet abrosives or wat (free) abrasives. Sanding area- $41 / 2^{m} \times 51 /{ }^{\mathrm{N}}$. Fealures al seoled ball beorings; direct-connected ofr-cooled motor. Rugeed blue hammerloid cast aluminum body. Hondy 110.120 V 60 ercle AC anly Shop 7 appraved. Use on 110.120 V 60 cycle AC anly, Shog. wt., 7 lb

THOR "14"
Not 14.67
THOR 16822. Lambiwool polishing pod ................... 70 THO 16905 . I8 sheets ossorted sondpoper Net .88


## BABCO RIGHT ANGLE DRIVE

- halves or DOUBLIS DRIL SPEED


### 3.30

Close coupled-right ongle attachment for working in confined spaces. 2 to 1 geor ratio permits holving ar doubling drill speed. High speed for drilling and anding-slow speed for pollshing-large hole drill-ing-mosenry drilling, etc. Fits $1 / 4^{\prime \prime}$ chuck ar moy be screwed directly to drill spindle. Includes $1 / \mathrm{e}-24$ male and lemale adopters-and $1 / 4$ ploin shoft odopter. Shpo. wr.. I It
MB-269
Net 3.30

NEW! THOR SPEEDWAY " 30 " 3/8" DRILL

- heavy outy

RATED FULL 3.1 AMPSI

- 1/8* Jacobs geared chuck
- desigmed for maintenance AND INSTALLATION.


DRIVES HOLE SAWS UP TO $21 / 2$ INCH
More power for service work-production lines-mechonices -or anyone requiring an extra heovy duty $\%$ "drill. $y^{\prime \prime}$ capacity in steel-3 $1^{\prime \prime}$ in hardwood. Seoled radial thrust ball beoring -other beorings oilite. 925 rpm no load speed, 610 rpm full load speed. Die-cost housing, steel gears, and specially reinforeed construction assure long ilfo. Trigger switch with locking pin. $\delta$ ft. type SL UL approved cord, universal series wound AC.DC motor. For 110.120 volth, AC/OC. Overall length $8 \% / \%^{\prime \prime}$. Shpg. wi., 6 lbs.
THOR SPEEDWAY "30"
Net 16.63
NEW SPEEDWAY NO. $707^{\prime \prime}$ SAW

- I.S H.P.

MOTOR

- ADJUSTABLE

SIGHTING
GUIDE

- retractable GLADE GUARD
- WIDE RANGE CUITING VISION
Here is a truly bie bargoin. The new professional 7 powerhouse feotures large blode guard liffer lever, eosy clomping knobs for ongle ond cul adiustments, and sofety Itp elutch. Ampere rating is 10 amps. The 10 amper motor has no lood speed of 6000 rpm . Depth of cut vories from $\mathrm{K}_{4}^{\prime \prime}$ to $2 \mathrm{Y}^{\prime \prime}$. Culs $11^{\prime \prime \prime}$ stack of $45^{\circ}$. Hos large oc curote protractor and adiustable sighting gulde. Oversize momentory sofety switch is UL approved. 10 feet 3 -conductor type-\$J UL-approved lead cord is provided. Housed in sporkling, high polished cast aluminum alloy. Complete with one $7^{\prime \prime}$ combination blade. For 110.120 V ., 25-60 cycles, $A C$ or $D C$. Shpe. wi., 17 lbs.
THOR NO. 70 .............. 5.00 Down
HD-465. Exira Cambinotion Blade for Thor 70 Net $\mathbf{2 7 . 5 0}$ 10 oz.

Shpg. wf. NEW BABCO NO. 94S UNIVERSAL DRILL
NEW BABCO NO. 945 UNIVERSAL DRILL PRESS STAND

- ADJUSTABLE DEPTH STOF
 - ADJUSTABLE CRADLE - ADJUSTABLE DEPTH


### 10.44

The new Bobco Universal Drill Press con be used for any $1 / 4{ }^{\prime \prime}$ pistol grlp electric drill. Feo. tures rack and pinion geor feed, and odiustable depth sloge. Handle gives up ta 15 to 1 leveroge. Thumb screw odlustment is provided. Drlil press head is clamped in rigid posifion. Precision accurote slide moves in V-ways with tako-up GiB for weor. $21 /{ }^{2}$ strake. Square bose is provided with thats for drili bit and for bolting wark to base. Other features include sping cefurn tension, fast hand-action, heod clamps and odjustable depth gouge dial. Shpg. Wf., 6 lbs.
HD-464


- COMPLETELY PORTABLE
- NOT A FLIMSY
"VIBRATOR"
- for all paint SPRAYING DUTIES
Mere "t a precision-built complete point-praying oultil monufoclured to the highest profestional standords ond vel sriced for the homeowners. With infegrat $1 / 6 \mathrm{H} . \mathrm{P}$. mator compressor unit, not a vibrator. Now it's easy to do a protessionol.looking point job, 4 limes foster than with o brush. Use it for other spraying or blowing duties 100. Spray odiustoble from o dime size $1010^{\prime \prime}$ wide. fealures on cosy louse iwo-linger trigger gun; the body is guoranteed 10 be unbreohoble. With 6 ft . cord, plug and 8 H . of hose. Shpg. wi., IS lbs.
MO-4is. Reg. 39.95 ........... 5.00 Down Net 29.95

THOR SPEEDWAY $1 / \mathbf{2}^{\prime \prime}$ DRILL

- FULL 6.5 AMP POWER RATING
- TWO-POSITION
- REAR HANDLE
- HEAVY DUTY

SEALED THRUST SALL BEARING ON SPINDIE


This high power $1 /{ }^{\prime \prime}$ Drill in the low priced field is builf to professional standords throughout. Features sofoty switch with push button lock and removable top hondie. The rear arip hondle can be revolved to vertical or hori zontal posifion. It can oliso be removed for close quarter workl Specificatiom: $1 / 2^{\prime \prime}$ capacity in steol; " copocity in wood; 6.5 amp roting; $400 \mathrm{r} . \mathrm{p} . \mathrm{m}$. full lood speed; $13 / 4^{\circ}$ pindle offset. For $115 \mathrm{~V}, A C / D C$. Complete with 10 fee 3-wire, type SJ, UL opproved lood cord: and 3-jow oeored chuck with key. Overall length with reor hondle is $14 \% /{ }^{\prime \prime}$ Shpg. wt., 14 fos.
THOR NÖ. 40 ............. 5.00 Down .............. Nol 24.95


New low-priced speedgrinder feotures rugged construction, buith-in dependobility and top quolity feolures. $241 / 2^{\prime \prime}$, $1 / 2^{\prime \prime}$ wheels.(1) 40 grit, (1) 70 grit. Only $91 / 4^{*}$ lang. Rubber feet prevent vibration. Oliess beorings. Eve shields ond bulti-in woter coaling tray. Ideol for sharpening oll tocls. Cen be used for sanding, polishing, etc, with praper wheels. Shpg. Wi., 9 lbs.
THOR 118
Ne! 13.96

## NEW MODEL 4100 VERSAMATIC



- WITH YANKEE STYLE BIT HOLDER
- TURNS $1 / *^{\prime \prime}$ DRILL INTO HIGH POWER TOOL
- REVERSES—INCREASES POWERREDUCES SPEED
Seven to one speed reduction develops tremendous tarquel Hand clutch control for eosy, instant stap-start actionl look of these fabulous featuresl Power screw driver-handles largest screws-reverses ta extract theml Power drill tapping headl Plenty of pawer for oversize drillingl Perfect far concreto or any kind of masonry drillingl low speed far concreto or any higd of mosonry drilingl low speed tool that onyons can usel Comes complete with serew driver bit-Phillipi bit- $1 / 4$ sockel set adopfer-wrench pin driver bit-Phillips bit- $1 / 4$ sockel set adopfer-wrench pin and insiruction book. Shpg. wf., 5 tbs
HD-195


## $1 / 2^{\prime \prime}$ CHUCK FOR VERSAMATIC

Geared chuck-5/64" to $1 / 2^{\prime \prime}$ copacity-\#33 toper to fil Supreme Versamatic. Shpg. wt., $1 / 2$ Ib

Nef 7.38

## NEW! SUPREME VERSAMATE



- 7x more power -firs All DRILIS - Yankee style 7.49 BIT
holotr

The fost, sofe, cosy way to drive even the lorgest screws into the hardest of waads. Versamote is a farward speed reducer, power mulfiplier for all portable drills. Add on odopter ond it's a fine power wrench; with $1 / 2$ " chuck, It will enable you to use masonory bit hale saws, ete factory guaranteed to work without follure. Comes with serewdriver bil and instructions. Shpg. wt., 5 lbs.

# LAFAYETTE'S "PORTABLE POWER" SHOP 

## NEW! WEN 'SOUPED UP' <br> SABRE SAW MODEL 909 - HEAVY DUTY - full 6 Amp. - $1 / 3$ M.P. Motor-1" Stroke - largest cutting capacity - $6^{4 \prime 9} 90^{\circ}$ Cut - $4^{\prime \prime 4} 45^{\circ} \mathrm{Cur}$ <br> 

Bigger-more powerful-more versatile-fasfer culting. Super long blode osily cuts through $6^{\circ \prime} x 6^{\prime \prime}$ Iumber. Culs $4^{\prime \prime} x 4^{\prime \prime}$ of a $45^{\circ}$ onglel Power enough to cut steel plote up $10 \mathrm{~V}^{\prime \prime}$ thick-iron pipe up $10 \mathbf{2}^{\prime \prime}$ in diameter, Comfortable-conventionol sow grip with oumiliory hnob for 2 hond control. Sow tilis $45^{\circ}$-sole plate olwoys remains flat. Finger control trigger-switch. Constant air streom flows dust from line of sut. 3400 i" strokes per min. Includes soven blodes for cutting wood-steel-hordboord - sheel metol-plpe-loother - rubber -formico-efc. Equlpped with rip gulde ond circle cutter gulde. 8 ft .3 cond cord and odopler. 110 woth. 6 amp.,
 HD-466 List 44.95 .......... S.00 Down ..........Net 29.97 Exiro Blades for WEN 909 ; Set af seven replocement blades. Shpp. wi.. is ib
WEN 900 tist 3.40 ..................................................... 2.33


NEWI RAM HI-TORQUE
1/4" DRILL

- Full 2.9 omperes
- Multiple Thrust ball bearings

13. 85 - $1 /{ }^{\prime \prime}$ Geared Chuck ond Key

Powerful, cool-running drill for all medium-duty applica fions. User o heovy duty universol type series wound motor for extro efficient performonce. Motor works well on boih AC and DC, $110-120$ volts, permitting operotion olmosi everywhere. Multiple heavy duly thrust boll bearings or used for smooth running evon with lorge loods. Drill has o no-load speed of 2000 R.P.M., full lood speed of 1200 R.P.M. Uses trigger-tyoe on-off switch with loching pln for continuous operation, and automotic release feature. $1 / 2 "$ copocity in hordwood, $1 / 4^{"}$ in steel. Uses on extro rugged geared Jocobs chuck with $1 / 4$ low. With 6 foot, 2 canductor UL opproved card. Overall length $9^{\circ}$ Shpg. $w 1 ., 5 \mathrm{lbs}$
HD-365. tist 23.50 ..............................................Net 13.95


## DREMEL JIG-SAW

23.48 ROTARY motor

Outcuts and outperforms heovier units selling for much more. Extro rueged, built for heary duty use. Cuts wood up to $13 / 4^{\prime \prime}$ thich-plostics-light matals. $15^{\prime \prime}$ throof-culs to center of $30^{\circ}$ circte. Powertul, self contoined, rotory motor. Exclusive roching oction. Toble tilis to $45^{\circ}$. Sofe enough for youngsters. $8^{\prime \prime} \times 23^{\prime \prime}$.
$91 / 2^{\circ}$ overall. For $110.120 \mathrm{~V} 60 \mathrm{cy} A C$ only. U1 op. $9 \mathrm{~V}^{\prime \prime}$ overall. For 110.120 V 60 cy . AC only. UL op. proved. Shpg. wi., 14 lbs.
MD. 245.
5.00 Down

Net 23.48
DREMEL MOTO-SAW
Lightning last - makes 7200 strokes per minute ond cuis 1 foot o minute through wood up to $1 / \mathbf{c}^{\text {" }}$ thich! the onty electrically driven hand fig sow that sows the most intricote polterns, cufs of ony ongle and warks on ossembled proiects. Automgtic switch in the handle. For 110 volls, $50 / 60$ cycles. AC Sup plied complete with cord and plug and 3 blodes. Shfg. wi., 2 ibs.
HD-293 ....................... 57 HD. 294-12 entro Blodes 6 ox. Nel .47

- WEN 2 SPEED $3 / 8$ " POWER DRILL
 MODEL 808
- HI SPEED-3000 RPM - LOW SPEED 1000 RPM
- capacity in


WOOD $1 / 16^{\prime \prime} 1021 / 2$ - ball thrust eearings

One drill with the proper speed ond tolque for avery lob. Husky-powerful-but not bulky. HI speed for sand-ing-sowing-grinding-brushing-buffing. Low speed for polishing-woxing-screwdriving-point mixingmosonry drilling. Ingeniously wound motor delivers maxImum forque under lood. Auxlliory handle can be in. serted at lop or bollom. Change speed by shiffing $1 / 4$ geored chuck to other power toke off. Trigger switch with locking pin. 6 ft . rubber cavered cord. UL approved. Overoll length $121 / 4 " 110.120 \mathrm{~V}$. AC/OC. Shpe. wi., 5 lbs.
HD-467 ..................... 5.00 Down .......................Net 19.97
WEN ELECTRIC POWER SAW KIT


A universol power saw hit for the home worlshop. This complete set includes the time praven 505 saw, rip-sowing ahochment, perfect circle cufter, assortment of 5 blodes, ond heavy gouge metal box. Sow has many extra featuresi Cuts $2 x$ i's coally in seconds. Sofe to use, easy to handio. Does the work of a rip sow, a lis sow or o bond sow. Operotes as coping, crosscut, scratl, hock or heyhoie saw. Mokes lis own storting hole on inside cuts. Saws wood, plastics, motals, composition board, herd rubber, otc. Cuts straight lines, curves, circles ond intricate designs. Air stream blaws sowdust aff guide Ithe. Well bolanced, light waight. 115 V AC-DC 1.8 amp motor. 2650 itrakes per minute. tength of stroke, $5 / 3^{\circ} .63 / 4^{\circ} \mid \times 5^{\circ} \mathrm{H} \times 6^{\circ}$ D. U.L. opproved cord. Shpg. wt., 7 lbs.
MD-488 ...... Sow Kit, list 29.95 ….................Not 19.57 Model 505 SAW with 3 ossorted blodes, less other ocModel 505 SAW with 3 .
orher oc.
HD. 66 SAW ...............................................Not 17.57 5 bloctes, jointer, protrector, tip fence, ond circle culter. $5 \times 15 \times 7 \%$ steet. Shpe. wi., 12 lbs.
HD. 470
Nel 8.64
WEN 50-A-34. Pkge. of 3 assorted blade: .. $1 / 2 \mathrm{Ib}$. Nof . 34
NEW BVI DE LUXE SPRAYER KIT


This hit prepores you for any ond every hind of sproving jab indoors or out. Enobles you to cover lorge areas fost -fences. outdoor furnilure, sidings. floors. Con be used os mathprooler, or garden sprayer. The fomous de luxt version of the Burgess Elestric Sprayer with genuine sapphire nozzle is the heart of this hit. Sprover comes sapphire nozzle is the heart of this Kit. Sprover comes nozzle odopler, point strainer, is ft. cord. "How to Point" booklet, spore ports hit, hond sander. Complete tit in smonty designed steel corrying cose. Shpo. wi., $81 / 2 \mathrm{lba}$.
MD-366-list 29.95 .. 5.00 Down ....Not 19.97
 cating Maly Sulanite bearings $7 \%$ motor with self lubri cound arbor hole Cuts to a depth of $2.7 / 14^{\prime \prime}$ Angle of cu round arbor hole. Cufs to $0^{\circ}$ depth of $2.7 / 10^{\circ}$. Angle of cut con be adiusted from $0^{\circ}$ to $45^{\circ}$, with depth of cut of 218 at $45^{\circ}$. Na lood motor speed 4500 R.P.M. This rug ged but lighiweigh sow in deslgned for of fortless one honded operation. For 110.120 valis DC or 50.60 cycle AC. Lustrous mirror finish. Combination rip and cross-cut blode and rip-guide included. Ut approved. 3 conductor cord, Shpg. wt., 15 lbs.
HD-359. Sow-lis1 49.98 ........5.00 Down.........Nel 27.95

SAW TABLE. Perfect complement to the "88" Sow. Al lows cutting of ony ongle between $45^{\circ}$ and $90^{\circ}$. Com plete with miter gauge and rip fance. Shpg. wt., 12 lbs. HD-360. Sow toble, List 17.50 ..........................Net 11.65 COMEINATION OFFEI. COnsist of the HD. 359 sow and HD. 360 saw toble, of o further saving in price. HD-364. Sow and Toble ........ 5.00 Down .........Net 36.90

COMBINAIION LLADE for up or crosscut work
HD. 361 Shpg. wh., Ith.lbs. ............................................ 1.69 FLOORING CUT-OFF BLADE for smoother crosscut thon comblnation blode.
MD-362 Shpg. wi., |1/z.lbs, ........................................... 1.69
PLANER ELADE will cul off, mitre, and rip smooth enough to eliminole sonding.
HD-363 Shog, wt., I $1 /$. Ibs.

## NEW BVI TOTE SAW



A beoutifully designed bondsow for the home croffs man, corpenter, cuttom instoller. Cuts straight or curved cuts to center of pieces $24^{\circ \circ}$ wide, any length-in wood, plastics, fite, steel-olmost anythingl Mas builhin duol coil cotory molor housed in rugeed cost oluminum and steel cosing. Adiustoble blode guord protects aperator Mos positive choin drive and eosy tension odiustment light enough to be completely portoble. Operotes on $115 v$ hough to be complerely porioble MD-367-list 34.95 5.00 Down Not 21.30

## NEW BVI BELT SANDER



For the meticulous crofisman, corpenter or cobinel moter. this sturdity built colt oluminum sonder is on excellent buy of this low cost. Sands right into corners. Has a 2-woy switch-for constont or momentary opero. tlion. Operotes o $115 \mathrm{~V}, 60$ eycle rotery moter that gives outomotic belt tension. Its cosy-io-grip handes make it - pleasure to operate. Comes complete with $2-2^{\prime \prime}$ n $17 \% \%^{\prime \prime}$ belts-I coorse. I medium-osy to slip on. Shpg. wt., 8 lbs.
MD-368-Lis! 24.95

## ACCESSORIES MAKE YOUR DRILL A PORTABLE MULTI-TOOL


(A) SANDING AND POLISHING KIT - USE WITN ANY DRIL $Q$ DURABLE PJECES High quollty sanding ond polishing kit for use with ony tiondord drill or drill press. Cufs working tlme to frocllon, while toking the work out of sonding. Ideal for oll types of sonding, removing rust-point, ond polishing hobby-croft, outo of. Kit contoins flexible rubber $5^{\prime \prime}$ bocking disc, 7 ossorted-groin sonding discs, ond $6^{\prime \prime}$ lombs wool polishing bonnet. Shpg. wt., 1 Ib. HD-270

Net 1.43
(8) 10 pc . Power Boring Set: For $\% "$ electric drill or drill press. 8 different biti plus shonk ond wrench. Sizes $1 / 4^{\prime \prime}, \%^{\prime \prime}, \%^{\prime \prime}, \%^{\prime \prime}, 1 / 4^{n}, \%^{\prime \prime}$, $1^{\prime \prime}$ and $11_{4}{ }^{\prime \prime}$. Rost, clean bore of any ongle. Shpg. wh., 1 lb .
HD. 181 HD. 181 1.09
(C) 4 PC. Wility Kit: Grinds, polishes, shorpens, cleons, finithes. Kit contoins $3^{\prime \prime}$ grinding wheel $h^{\prime \prime}$ thich, $3^{\prime \prime}$ double thick mualln buff, $3^{\prime \prime}$ wire wheel. Flonged orbor with $\%^{\prime \prime}$ shank. Alt wheels hove $1 / 2^{\prime \prime}$ bore. Shpg. wi.. MD-392 Net. 99
(D) 29 pc. Drill Set: 29 chrome vonadium twist drills with indexed metol stond. Sizes $1 / 16^{\prime \prime}$ to $1 / z^{\prime \prime}$ by diths. Shpg. wh., 4 lbs.
HD-214
Net 5.40
(E) Turned down shanksi Same as obove, but with shanks lurned down for $1 / 4^{\text {" }}$ drill. HD-4 40

Nof 7.29

## (F) HEDGE TRIMMER ATTACHMENT

Converti any $\mathrm{y}_{4}{ }^{\text {w }}$ drlll Inte on easy handing hedoetrimerer. Steel and aluminum construction. Slatib. npe 10 cumisg blode. simple cam ection, $1 / 4$ atroke. Lighrwelgtit . . . ceay handling. Shpe. wt. 3 lbs.
MD-97.
Not 6.39

## (G) ARCO SAW WITH DADO-ARBOR

- CUTS $2 \times 4 \cdot$ IN ONI CUT
exvolutionory, new "Arso-Saw" when. Adjustoble "Dado. Nibor", cult any groove up to $y_{3}{ }^{\prime \prime}$ wide E I" doep on ONE CUII Aber swivels cowblass to cut leroe groeves with little power-no heovy duty drlll moeded. "Dodo-Atbor" "esilly removed for stroight and anole cuts with precision Depth. Coval-Rip Gages.
 With instructions and foctory everontes. Shpe. wh., 4 lbe.
MD-197 $\qquad$ LIST 12.05 $\qquad$ Not 8.63
 MD-116-Hyearbon Crosscut Blade. 1.23
HD-117-Hycerben lis Ilode
1.23
HD-11E-Atrearbon Combination Slade. 1.23


## (H) ARCO JIG SAW

Cuts penfect dirclen ony slze up to $20^{\circ}$ diemeter, ripes occurate widths ony sise up to $10^{\circ}$ wide. An erpociolly desiroble home workyhop lool because of itt versalli. Ity. Does work of Jis, Karhole, Caping, Mip, Croskut. sand and Heckeowl For Intricate paiterns, the Jie Sow is simply guided over the cutting lime whils the Automotic Air-blower blowi sowduat oway from blode. Cuts plywood, ploitics, wollboord, motolitoven lum. ber up to 2 an, 4 'Il storts inside holes without bering. ber up to 2. AI Storts inside holes without boring. Hos Rioht Angle Drive, atrong Safely. Yote and Worm Drive Clomp. Self. Iubrikating Llferime Leorings. Slades ore arlly changed in recondi with ordinory ecrowdriver. Complete with Cirele. Cufter it it Goge. fig Sow Slode. instructlons and 90 doy foctory Guor: ontec. Shps. W1., \& lbs.
MD-196 $\qquad$ LIST 10.85 $\qquad$ Not 7.30 Jlosom-Iess Clicie Cumer and hip Gose. Shpg. wt. ${ }^{3} 1 \mathrm{lbr}$. $\qquad$ LIST 8.85 $\qquad$ Net 6.63
teploce $\qquad$
$\qquad$
HD-S\%
$\square$ of 6 Asiod. - Net 1.30
(I)CARBIDEMASONRYDRILLS

Premier carbide tipped mosonry drills, mode in Hollond. For ust on concrete, brick, tile, plaster, etc. Pocked in red platic kit. Fits any electric drill.

| Trpe | Slize | L | Shonk Dla. | Wi. | Net EO. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MD-303 | $1 / 4^{n}$ | $4^{n}$ | $7 / 32^{n}$ | 208 | 59 | HD-393

HD -394 H0-395 HD-396 $1 / 4{ }^{\prime \prime}$
$5 / 10^{\prime \prime}$
$1 / /^{\prime \prime}$
$1 /{ }^{\prime \prime}$
4"
4"
4"
A"
$7 / 32^{\prime \prime}$
$7 / 32^{\prime \prime}$
$1 / 4{ }^{\prime \prime}$

$1 / 4$ | 2 | or |
| :---: | :---: |
| 2 | or |
| 2 | or |
| 3 | or | 4-Plece Ser. In ottroctive red platic til Fits any ioctric $5 / 1$ HD-397. Shpe. wr. 6021

Net 2.56

## (J) WOOD SCREW COUNTERSINK


Sel contains a cold forged bits and "Depth-o-Dapter" Esectly profitied for 5 most populor kerow uires. Ad. luits for llush, putty or dowol plue counternink. For
 - $211 / 4^{*}, 10$ ond $12 \times 1 \mathrm{~h}^{2 /}$. Permits fort, multiple boring of duplicete holes exoctly ollite. shps. wh., borine
$1 / 2$ ib.
Net 1.27

## (K) FOAM DISC SANDING KIT

## - RUBBER-FLEX SWIVEL DRIVE

NEW POWER SANDING DRILI ACCESSORY. Fits ony $y_{6}{ }^{\prime \prime}$. or larger electric drill. The sonding surface floati on - poly-foom pod. Sands flot or curved surfocer. Con't gouge-no swivel mocks. Soft foom bocker pod forms eosily gouge-no swivel mocks. Soft toom bocker pod forms eosily causet pod to "wolk' outomotically. Complete with pade flexi-drive, o assorted sonding dises and instructions. floxi-drive, 8 osso
Shpg. Wi.. 8 oxi.
Shpg. Wi
HD- 483
Net 1.67
(L)

DRILL. SAW - CUT - REAM four lobs with one bit. Use with ony electric drill or drill pross. Cuts circles, ovals, squares, otc. With. stands severe continuous use. Cut, wood, plastic, bokelite, steol, brass, copper, etc. Shpg. w1., 402. HD. 75 —Wood Etif........................................... 69

## (M) BABCO GRASS TRIMMER

- Fest Sheoring octions Sofe operetion with blade guard Smaoth, Cleon Curing Now you can lok odvonloge of thot electric drill in your work shop to trim gross with this unit. Attoches to ony $1 / 4$ " lectric drill. Ideol for culting gross grown over sidewoll stepping stones or close to woll. Neot ond fost cutting. Ten times foster thon hond sheors. The retory blode is . imes foster thon thond sheors. The retory blorte is well vorded, top ond sides, fo insure sofo oderofion. $51 / 2$ shorpener. Shpg. wi.. I ib.

| MDorpener. Shpg. |
| :--- |
| MD |
| 199 . List 3.50 |

Net 2.62

## (N) KNIFE SHARPENER DRILL <br> ATIACHMENT

Proctical-efficient-precision built knife shorponer. At. teches to omy $1 / 4^{\prime \prime}$ or $\%{ }^{\text {" }}$ drill. Puts ${ }^{\circ}$ o perfect edge on any tnifa. Shorpens both sides of blode af once. Usos top quallity Norton Alundum obrosive wheols. Oilite brass beorings never require lubricoting. Nickel ploted steel shoft. High Impoct polystyiono cosing. Shpg. wt.. 1 Ib. HD-272........ 2.69
(O) HIGH SPEED COUNTER SANK

Fast cutting-five flutes- $82^{\circ}$ onglo. Made of fine grade hi-speed stoel. For userin ony mochinoble material weh os metol, waod and plostic. Has five cerefully ground flutes for cutting on $82^{\circ}$ ongle to receive wood ond machine serew heads. Has $1 / "^{\prime \prime}$ shant for use in ony electric drill or drill piess. length overall. $21 / 2^{\prime \prime}$. Shpg. wt., 6 oz .
ND.76 $-\ldots . . . . .$.

## (P) DRIL MATE SHARPENER

Handy low cost drill sherpener-sharpens drills from $1 / 16^{\prime \prime}$ to $1 / 4^{\prime \prime}$ sixe. Uso it olso to shorpen chisels, tnivel, plane bits, scissors, wood bits, carving tools, enive1, plone bifs, scissors, wood bits, carving tools, -permanently lubriceted. Drill holder Is fectory pre. -permanenily lubricated. Drill holdar is factory pre. rest tills to ony ongle. Grinding whoel is high grode, rest tilts to ony ongle. Ginding wheol is high grode,
fine gris, oluminous oxide stone. Shpe. wh., $3 / 4 \mathrm{~lm}$ ib.

$$
\text { ND. } 243
$$

## (5) SCREW-MATIC <br> SCREWDRIVER ATTACNMENT FOR ELECTRIC DRILES

Con be fitted to ony fized or portable dilli, to drive up $10 \mathrm{~K}_{6}$ " diamater wood icrewi quickly ond cosily. Bit idies until pressure is applied. poweriul "non-sllp" industrialetype clutch disengeges ifielf when acrew is driven home. Speciol bit holder prevents bit from stipping out of screw slot. Includes two hordened tool steel $1 / 4$ " hen bits for No. 2 Phillipi head and for No. 6 to No. 14 slotted screws. Shos. Wi., 1/h lbs.
HD-463
Not 3.97

## (T) ROTARY RASP

For use with ony $\mathrm{Y}_{4}$ " electric drill or drill press. Made of hord ned steel, it is ideal for shoping of waed, plastic, ilbre etc- planing of floors and boords-mixing of points, olls and other heavy liqulds. Extremely handy for the home craffsman, hobbyist, handyman otc. $21 / 0^{\text {" }}$ In diameter
13/16" wide. Shpg. wt. . $1 / 2$ lb.
MD-4 58
Net 1.66
(R) CHUCK KEY HOLDER

Koeps your geored chuck key right with your drill. No more fumbling or lost theys. Key snops freely in ond out of holder. Always ready to use. Fits all drills and chuck Hoys. Quickly installed. Shpg, wi., $1 / 2 \mathrm{lb}$. MD. 271

BEST VALUES - LARGEST STOCKS - DEPENDABLE SERVICE


SHOP KING SWIVEL VISE (A): $31 / y^{\prime \prime}$ wide, serroted, hardened steel top jows apen to $4^{\prime \prime}$ maximum. Swivel base has $200^{\circ}$ rotation-lacks by stide for nut. Equipped with easily removed pipe-vise jaws. Beauifully designed-pre. cisian mochined-sturdily constructed. Complete with polished, remavable top jows-pipe iaws and cut-ofl toal. Flange mount bolts to bench. Shps. Wt. 16 Ibs.
HD-106
.Nat 9.33
(B) "VILLAGE BLACKSMITH"' ANVIL

Here is warkbench equipment lang wanted -0 rugged form-and-home size onvil. $8^{\prime \prime}$ long, $376^{\prime \prime}$ high and $3^{\prime \prime}$ wide of the bose. Find hundreds of uses in melal work, woodwork, leotherwark, etc. Exclusivaly built for the home cruftsmen, habbyists and farmers. Shpe. wt., 8 lbs.
MD .404
3.29

## MAGNICATOR

## - WALL STUD LOCATER

Hong shelves, cabinels, boffes, pictures, mirrors, etc. ta wall orea backed by stud. Mognicator locates natls or ather mesol within $1 / 4^{\prime \prime}$ of indicator. Points out nails In studs to pin point best hanging area. in studs to pin
Shpg. wh., 4 azs. HD-285

Net eo. In lots of 3.39

## MAGNAGRIP CABINET LATCH

- positive - quiet -


## SECUREI

- USE ON HI-FI

CABINETS AND

## CONSOLES

For cobinets - doars - gotes - scree Use in workshoo - kilchen - parage - den - any ploce you hove a door requires a simple, pasitive, quiep latch. Magnetism lasts o lifetime. Simple to insfoll - costs no more than old fash. loned friction cotches. Shpe. wt., 6 ass. HD-218

Set of $3-$ Nel .79 Singly, Each .29
LENK INSTANT FIRE EXTINGUISHER


## - YOU CAN'Y AFFORD

 TO BE WITHOUT ONEIExtingulshes all types of Ares safoly and quickly. Electrical - all - oreose - oic. A must In the shop - hame - outo - beat camp - offect Full coniral valve - turns on
ond off. Includes mounting brocket. Shpe. wt. ond
2 lbs.
Lenk 72 ..................................................... Net 1.47

## INSL-X TOOL DIP

Entremely high diefoctric strength for moximum protection. Ne more tedious toping of toal handles. Just dip and let dry-resists acid, alkall, water and ail. Bright red colar lacates
(c) DOUBLE END BALL BEARING MANDREL
Ideal for small shap ar hame. Equipped with hardened tall beorings and reces. Threaded $1 / 2^{N} \times 20$ on each end. $11 / 2$ " pulley far "V" beli drive. Bulid your awn erinder, sander, buffer, lach shaft, sow, etc. Shpg. Wh. grinder
2 lbs.
HD. 240 . $\qquad$ Ne1 2.32
VERSA-VISE (D): All the feofures of o regular vise-pluslocks in ony pasition, just tighten jows. Turns to ony work pasition. Use stonding or laid flot-furms $360^{\circ}$ bither way. larger jow surfaces- $3 h^{\prime \prime} \times 2 \%^{\prime \prime}$-plus removable pipe jows. Jaws open 5 "
HD. 282 Shpe. Wi., 17 lbs
Net 10.49
Right Angle Adopters Adds belt adiustment for halding Right Angle Adoplors Adds belt adiu
work at any angle. Shpg. Wt., 2 h lbs.
HO-283
Net 2.18

## FORGED <br> STEEL HAMMER

All steel - curved slaw style - one piece construction. Ellminates braken handles and flying hoads. Well balonced for non-firing use. Non slip - suede finish - rub. ber grip. Shaped like conventianal waoden hondle. Shpo wh., 2 tbs

Nat 1.89

## 24 Camel Hair BRUSHES

- SIZES 1 THROUGH 6
- RUSTPROOF ALUMINUM FERRULES
 HD-340
(48 brushes)
......................... 1.00
Prolessianal Packase: I44 Brushes, Ass'f, Plastic Contoiner. HD-479 Shpg. Wi., 1 lb.


## 4-PIECE

## PAINT BRUSH

## KIT

Ideal for "Do.lf-Yourwif" pointers. All pure bristlevulconized in rubber. For ouch-up, trims, furniture, sash and maulding. Consists of 1 each- $1 / 3^{\prime \prime}, 1^{\prime \prime}, 11 / 3,2^{\prime \prime}$


## NEWI PRECISION (\$/AL LEVEL

)
your insufoted tool at o glance. Also recem. mended for use on Radio \& TV parts. 6 oz. can. MS. 50

Net 79

## "RUB-R-IZE" LIQUID RUBBER

- WATERPROOFS - REPAIRS - INSULATES Shockproof toals-insulate wires and terminal-weatherprools Ifonilionpolches ownings, convas, finaleum, roofs, leaders, hoses. Naivral liavid rubber. Entreme flezibility. Avallable In Red-Green-Black-Transporent. Specity colar.
MS-104-2 ox. bottle...........Net . 54 MS.76 - $1 / 2$ pt. Shpe. wi.,
MS. $77-1$ 1t.a...............
$11 / 2 \mathrm{lb} . \ldots \ldots . . . . . . . . . . . . . .$.
- Roods Elovation from $0^{\circ}$ 10 $90^{\circ} 1$
- Roads Inch Rlse per foot to $12^{\prime \prime} 1$
- ouick-accurate -floating dial


### 1.83

Simple-sturdy-efficiont-precision leveling device. Extreme accurocy- perfect for leveling uD hl-fi furntables. Used in roofing-traming-dralnoge-garden work -ma sonry Cement work-general repoirs. Accuralely squared sides permit leveling from lop-bottam-or sides. One side of dial collbreted in degrees-other side in Inchen per foat. The pivaled-free moving-dial flaots in a special llquid. Nat offected by temperoture from $40^{\circ}$ below 0 to $200^{\circ}$. Comen to instont stop-no wagging or vibration. Eosy reoding through bullt-in mognifier ond red pointer. Cose molded of high impect plostic. $4^{\prime \prime} \times 23 / 4^{\prime \prime} \times 1 / \mathrm{e}^{\mathrm{\prime} \mathrm{\prime}}$. Dial measures opprozimately $2^{\circ}$ in diometer. Shpg. wt., $1 / 3 \mathrm{ib}$.
MD.33?

0.

PERMA.POWER MAGNEFORMER (E): Comooct. Dortable unit for efther magnetizing or demagnetizing any small tools such as screwdrivers, nut runners, pltars, tweezers, etc. Il does the iob in lens than 10 seconds. Ideat for use by service, lechnicions, habbyists, engineers, and all those who use mall tools. Operotes on 115 volt oc. Complete with simple instructions. Shpg. wt., $21 / 2$ lbs. HD. 400 - list 7.50 ...Net 4.40
ADJUSTABLE C CLAMPS (F): Forged tool steel clamps Bright-plated finish. "Quict-set" adjustabla action Bright-plated finish. "Quick-set" adjustabla action.
Stronger thon cost trpe clamps. Avg. Shpg. Wi. per polr 1 lb .
MD.401-2" Clomp ...memso.......amon-Net per Poir . 75

HD-402-3" Clomp ...............................Net per Poir . 89
HD $403-4^{*}$ Clomp


The "ULTRA" Electro-Tool Kit - Designed with the Technician in mind - Professional

Quality Throughout All the most often needed tools
solected innest-mast compoct corofully Eoch component tool chosen to offer ullifiy and quolity. The "ULTRA" kit contoins the following: 5 k " insulated side cutters, $5^{\prime \prime}$ Insule:ed chrome placed diagonols. $6^{\prime \prime}$ Insulated chrame plated tong nase, 30 watt soldering iran, 3 offsel open-end wrenches cavering from $14^{\prime \prime}$ to $1 / 2^{\prime \prime}, 5^{\prime \prime}$ chrome plated tweezers, shockpraof amberaid chuck handle, $3 / 32$ nd screw driver blade, $5 / 32$ nd screwdriver blade, \#l recessed screwdriver blade, punch-awl blodes, 1/" nut driver blade, solder and flum. Pliers insulated for 10,000 valts, hand haned cutting edges. Side culters have beveled nose, diogonals have provision for wire stripping, lang nase has "wrench" grip iows and cutters. The entire set is nested in a zippered, fitted, lined book rype carry. ing case with handle. Measures a scant $9^{\prime \prime}=5^{\prime \prime} \times 2^{\prime \prime}$ Shpe. wi., 21/2 lbs.
MASTER DIRECT READING CALIPER

- Read size directly from scolel
- Meosures round, Mot.
or Irregular ta $4^{\prime \prime}$ thicki
- Precisely collbrated

In inches by 32nd's!
Throat atcommodoles Up to 3"!


The most hondy, convenient, useful toal of its kind. Indispensoble to mochinists, taalmakers, palternmakers, droftsmen. Inspectors, hobbyists, and hame craftsmen. Measures reund. Hot, or irregular shapes up to four inches thick. Sise is read directly on a $0-4$ inch black on white scale callbrated in inches by 32 nd's. Squeezing handle apens caliper-a spring closes if oently on watt. long, curved legs reach over abstructions to measure up to 3 inches in from the ofge of a part. Penetrotes to the bottom of groaves ond slats only $1 / 16^{\prime \prime}$ wide. Knurted thumbscrew lock, the caliper of ony mid-scale posilion for use as - gouge. Shpp, wi., I lb.

HO. 339
.Net 1.03

## DEVIL-LEVEL



- measures pitch in degrees.
- MEASURES INCH EISE per foot.
- floating pointer FOR HAIRLINE ACCURACY.
The tirst new leveling device in over one hundred years Flaoting pointer gives true level or inclinotion of a glance. Only $2^{\prime \prime}$ square by $I^{\prime \prime}$ thick. Molded case of speciolity selected plastic. Painter bab flaats in oil. Reads any ongle instontly. Cose design altows leveling from top.batiom.or sides. Nolhing to breok or get out of order. levels ony lob-lorge or 3 moll. Shpe. Wh., 4 azs
HD. 185
Net 1.37


## THE RIGHT TOOLS AT THE RIGHT PRICE



## FLEXIBLE SHAFT

 ATTACHMENT FOR ELECTRIC DRILLS - dril wherever you will - takes up to$1 / 6^{\prime \prime}$ SIZE DRILLS
2.39

Operates off any fized or portable $1 /{ }^{\prime \prime}$ power drill; en. obles you to drill of ony ongle anywhere. Cepocity Comes in bor with completo instructions. Shipg wf. I lb. HD-389


Hondy sel of 6 precision screwdrivers with nickel plated Inurled handies, swivel heads and lem. pered steel blodes. One each from No. 0 io 5blade slies: $025^{\mu \mathrm{m}}$ to $100^{\prime \prime}$. In plostic kit. MD. 444 wi..........Not. 69

## 7-PIECE SUPER

 NUT-DRIVER SETMosi popular socket sizen-polished, hardened iteel defochable shafts. Plastic hondle with precision clutch. Contains: $1-3 / 16^{\circ}$

$1 / 2$ hex nut shoft, $1-1 / 4$ " hex nut

 shaff. $1-11 / 32^{\circ}$ hex $1-7 / 16^{\prime \prime}$ hex nut shaft nut shaft. $1-\%^{\prime \prime}$ her nut shoft MD-14-Shpg. wf., 2 lbs.
BENCH AND WOODWORK VISES


CLAMP-ON BENCH VISE (A)
Sturat, orocticol ond enficionly, (onytrvctiod, $21 / 24$ wide
 Ccuratir mochiised polianod ond locquered. Unexicelle for ordinory iabs in shop, home or goroge. Sheg. $31 / 2$ lbs.
MD. 107

## NEW BENCH VISE (B)

Sturdy, proctical ond officiont. Twin S/1o evido bors on. zuro vernier smoolh oction, A lorge "T" froe oction tiom. oning ber fis connocted to drive ccrow. Sol wreew on vite Qormins removol of divive sreve from viro body. Knyriod
 screw pars ale mum l1/2.. Shpa. wi., $31 / 2 \mathrm{bs}$ bs.
ND-356
Not ooch 1.10
WOODWORKERS VISE (C)

- $61 / 2^{\prime \prime} \times 31 / 2^{\prime \prime}$ JAWS
- OPENS TO $41 / 2^{\prime \prime}$

A Ane, procticol tool to the mall thop:home-form or zorooe: Guidos ore of finaly mochinod cold rollited stool. Groy iron iowi-loce oround ond fnished. \%" diometer screw -6 throod per Inch. Stppe. wt., 6 lbs.


SCREW EXTRACTOR SET

- For $1 / 0^{00}$ 10 $\%$ " scriws

Five piece, chrome vanedium. screw entroctor
 bolfs-studs. even $1 /{ }^{\omega}$ and $1 / 4$ " pipe. Simply drill domoged seraw. fwist artroctor in-and mooden cose. Shpe. wi. 116 .
mooden
MD. 273

- Tested Beyond Professional Speclfications
Professianal quality-wheavy duty-forged from special heat treated, ollay steel. Chrome ploted to resist rust. Insulated with fitted, vinyl, non-slit handle grips-pratects up ta 10.000 valts. Mand haned cutling edges. Mochine milled teeth. Handles shaped for wasy grip and maximum leverage. Short fulcrum distance for greater gripping Shpg. wh. 10 az
MD. 350 ó" $^{\prime \prime}$ Diagonal culter wire stripper

HD-35 $16^{\prime \prime}$ Long nose-side cutter whe stripper
HD. $3526^{\prime \prime}$ Electronic oblique culter, wire stripper HD-353 $6^{\prime \prime}$ Lang choin nose-side eutter-gripper MD-354 $7^{\prime \prime}$ Linesmon', side cutiers-beveled nose

### 1.69

7 in 1 HOLE SAW motor arber. rotory sander lathe. Cyclindrical som blades cut holes from $1^{\prime \prime}$ to $2 y^{\prime \prime}$ diameter in ony $\%$ " stock. Hole sires ore $1 " \%^{\prime \prime}, 1 \%^{\prime \prime}, 1 \% \%^{\prime \prime}, 2 \%^{\prime \prime}, 2 \%^{\prime \prime}$. 2 $1 /{ }^{\prime \prime}$. True size carbon steel zow blodes fit into deep mochined groaves in tool head and ore locked Into place by a full length lock icrew. Cuts wood, plat and oumatic slug efectar Shipping $\mathrm{wf}$. ., I 1 h lbs.
Stict 1.69 HD-225

Net 1.69
$1 / 2^{\prime \prime}$ CHUCK FOR $1 / 4^{\prime \prime}$ DRILLS


Converts $1 / \mathbf{N}^{m}$ olectric drill to $1 / 2 \mathrm{~m}$. cepacily Property mochined to insure correct bolonce. Moy olso be used an stondard $1 / 2 \times 24$ motar arbar or shoff. Shog. Wi., 1 lb . HD 203
0.4 .59

## WIRE

STRIPPER-CUTTER compered sieal-hondy-oasy to use wire Mripper. Powl com lock sels to wire gouge. Designed te fit your grip-
utos minimum prossure. Specially ground cutting dges. cos minimum pressure. Speciolly ground cutting edges. light and strips of ony paint olong
MD. 264


LOCKING PLI-RENCH

Super power locking combination pliers, wrench, clamp ond vise. Exerfs over 1,000 lbs, of pressure. Hoot treoted, drop farged fows. Mochine milled teeth. length $10^{\prime \prime}$. Shpe. wi., 1 Ib.
MD-1 26

VINYL INSULATED "PROFESSIONAL" Your CHOICE

HANDY WARDING FILE SET


- individual files - special steel-detp CUT-HARDWOOD HANDLES

First quality Germon mode Ale net. Perfort for inop home - hobby wort. Kil conslats of hat, half reund, irl. hord wood handice. Sturdy olestle secket eave Included, Shpg. wf. $1 / 1 / \mathrm{tb}$.
HD-21s

## WRENCH SET Multi-Use

## - 8 Precision

Wrenches


Fully nickel piated-spocial onolvis alloy tool steel. Meot freoted and hardened. 16 sizes sover the most often en. countered nuts in the automotive. TV-radio-applionce and hobby fieldi. Sises range from $13 / 64^{\circ}$ to $7 / 16^{\prime \prime}$. Set In. cludes cese with transparent caver. Shpg. Wi.. 8 oz. MD. 405


## JACOBS TYPE

 DRILL CHUCKComparable ta Jacabs IB. Key troe geared tooth chuck.
Copacity $0 . \%^{" \prime}$, thread $\%^{" M}$ Copacity $0.1^{* \prime}$. Rugeediy consiructed. Polished finish. Uied as sfondord equipment on most alectric drills. Made ta rigid specificallons. Compare our really low price You't find this some chuck selling for twice os muchl 5 hpg. wi., I lb
HD-186
ETM MAND TAP SET

- AMERICAN STANDARD THREAD
- 5 MOST NEEDED SIZES

RUGGED TAP WRENCM
Handy too set includes most often used sizes. Consists of 6.32, 8.32, 10-32, $3 / 16-24$, and $1 / 4.20$ taps, rugeed iap wrench with T-bar handle; ofl in heovy plostic pouch. All threads ore American Standord. Extremely useful for repolir and servicemen. Shpg. wf.. I Ib.
MO. 410
99

## 13 PC

 TWIST DRILL SET 1.29Set of 13 high quality chreme vanedium twist drills, complate with moial indez. Sires: $1 / 16^{\prime \prime}$ to $1 / \mathrm{s}^{\prime \prime}$ by G4ths. Shpog. wt.
MD.il3 .Net 1.29

## 20 PC. AUTO SOCKET SET

## - ${ }^{2}$ Ideol for auto or home. Contains 8 regu. lor 12 -point sackerl $7 / 16^{\prime \prime}, 1 / s^{\prime \prime} .9 / 16^{\prime \prime}$ $\%{ }^{\prime \prime}$, $11 / 16^{\prime \prime}, \% "^{\prime \prime}, \%^{\prime \prime}$, and $15 / 16^{\prime \prime} \%^{\prime \prime}$ drive hoz. I handle, 1 retchet handle. I screwdriver odopterg alsa 7 ignition sock-  $y_{2}{ }^{\prime \prime}$, and $y^{\prime \prime}$ internol knurled recket, $1 /{ }^{\prime \prime}$ drive hex. $t$ handle. All parts ore properly heai freated and nickel-ploted. $\square \begin{aligned} & \text { Mounted in red woll brectel. Shpg. wt.. } \\ & 3 \text { Ibi. } \\ & \text { H0-446 }\end{aligned}$ NIEW MASTER FINISHER

A moster tool for all hond finishing jabs, both coorse and fine; also for grinding, polishing ond other vses in home and shap. Molds sandpeper and obrosive, aukkly reploseable. $51 / 2^{\prime \prime}$ lang body, lapered
MO-414—Shpg. wt., 8 oz.............................................. 72

## SPECIAL WORKSHOP VALUES

## NEWI RATCHET HEAD "VERSATOOL'为 $1.60^{\circ}$

- Worts Right-Left-ond Loctiedl Fits Slotted and Recessed Screwsl - Use Stroight or Ottset Verratllo-compact-durable. Ideal for the profersianal Fhobbyit-craftiman. Heat treoled-pool stool bloder. Full isized butrrale handle ond knurled grip. Fits ony pocket - onty $41 / 2^{n}$ long whon closed - no protruding blodes. Salect any of three bloder - lacki instontly in position. Can beositioned at right angles for esira leverage. Universal ratchet oderates in elither direction or tocks. $\mathrm{Y}^{\prime \prime}$ nut driver in heod. Chrome ploted finish. Shpg. wi. I lb.
HD-317-List 2.40
Rafchet Head SOCKETOOL
 Amaringly verwatilel Handles corrioge bolts, mochine bolfs, lag chine screws, wood screws, cap icrews-ony ityle of heod-slotled. recesised, square or hex. position-handy for herd-to-reach potilion-handy for hord-to-reoch ploces. Universol ratched heod works right, loft or lock-speeds Shelfon suregrip ratchet hondles straight hen odopter; offiel her odapter; 5 hen sockets-
$7 / 16^{\prime \prime} \%^{\prime \prime}$. $11 / 32^{\prime \prime}$. $5 / 16^{\prime \prime}, \%^{\prime \prime} 3$ square sockets$7 / 16^{\circ}$. $\%$ ", $5 / 16^{\%}$; iool theel screwdriver bif for slotted screws; lool steel scrowdriver bit for recessed head (Phil. lipis serews. A fine smoll tool set, ruggedly constructed for hord usoge. Complefe In duroble plastic case. Shpo. HD-451.


Nel 2.25

- EVERY LUBRICATION NEED IN ONE KITI - 3 SPECIALLY COMPOUNDED IURRICANTS - EACM LUBRICANT IN spicial puffer gun
Three rop-quality Iubriconts in one cenveniant poctroge. One tube of fing, dry powdered graphilic Jubricant. One lube of oll-purpere ofl for home owners, sportimen. hob byists, industry. One tubs of liguid graphitic lubricent. long losting, weotherpreof. MB-253
MO-254 Drr Lubricont Ner, eo. . 18 or Mare Net. . 17 HO-255 All Purvew Oil Not, ©0. 18 or More ec. Is ND. 256 Liquid Graphite Nef, © . 39 or More eo. . 34



### 1.20 <br> TUBING CUTTER

A quality cutter for copper, brass, or atuminum tubing. Providas up to i" capocity. Equioped with olloy iteel culting wheel and slide-lock reomer. Ideol for light plumbing etc. Shpg. wi., 8 oz. N0-346

### 1.36 <br> FIBERGLASS REPAIR KIT

- Plantie Fiberglasa Stronger Thon Steel - Self Borting in Minutos - Sculps litie Madeling Clor - Fixes fost to last

For quietz, easy. low rost perma nent repalis to wood, metsl, dianic., concrele. Pibersiass. ceramite.
lmost my materis) crscized, dented. holed or rusted. Fhy materisurs newly perfected ensily-worlted materisl which hardens gutitly to a tutigh. duratile. Wisterproof plastle that It stroncer than steel. Also included tas cloth, hardening agent and fast siee. Aiso toty to use. Shpte ot. I K lbs.

VINYL PLASTIC ELECTRICAL TAPE

- cuarantero first grade 546
- 60 FT. y $1 / 4$ "
in lots
- $10,900 \mathrm{v}$. вваакоонн of 24
 Extremely high dielectric strength of $10,900 \mathrm{~V}$ breakdown Insulation resistonce of one million megohms. Over $150 \%$ elongorion of break. Excellent resistance ogoinst acids alkalis, olls, solt water, etc. Tensile strength of 15 lbs per in. High conformobilltys Forms tight, smocth pro tective wrap. Shpg. wh., 6 oz.
HD-216-Plastic electrical tope, 70 per rall; in lops o


## DREMEL

MOTO-TOOL KIT
Designed for light grinding, pol ishing, drilling, carving, sanding, sawing, engraving, routing, otc. Handles of cosily as a pencil. Does fine defoil work with pinpoint accurocy. Ideal in thop, industry, lab, hobby, madel mok ini, hom work shop, otc. Aulomatic shuck lock-oil less beorings-bakelit. housing. Works in wood-mefal -plestics-ilass-leathers-ic. Includes sfoel cutters emery wheels, drum sander, mpadiels, brushes, cut-of wheels, polishing wheols, dressingstone, poltshing and sanding acessories, fic. All in stee cose, 110 120V. AC/DC. Shpg. wi.. 5 lbr
HO. 2 2.
Not 18.52

## NEW! MITER-MASTER



- HANDY TOOLS IN ONE - RUGGED STEEL CONSTRUCTION A universal tool for the workshop. Can be used as a mitering guide. diameter gauge, occurele square, marking goupe, center finder and conveniont ruler. Shpo. wt., $11 / 8$ Ibs.
MD-413-list 2.50
20-PIECE TAP AND DIE SET



## - NATIONAL COARSE SIZES

Twenty of the mout often needed top and dies. Sizen populorly used in radic Contains one, shop and light industry of the following sizer: $6-32$ die in each $\begin{array}{llll}\text { of the following sizes: } 6-32, & 8.32 & 10 \\ 24, & 12-24, & 1 / 4-20, & 5 / 16-18, \\ 7 / 6-16 .\end{array}$ $24,12-24,1 / 4-20$, 5/16-18. $1 / 6-16$,
$7 / 16-14$, and $1 / 2-13$. Includes die stack and adjustable fop wrench. Entire set contoined in o flited metal cose. Shpg. 5.59 HD. 252

Not 5.59

## 2 in 1 EYELET TOOL

- PUNCHES HOLE-SETS EYELET AT SAME TIME
- COMPLETE WITH 300 EYELETS

Neotly - cosilly - punchen holes and sefs eyolels in fobric - convos - olostic - leother - peper - cord boord. Ooes a professional looking job every time. Use it on belts, shoes, sneokers, tarpoulin, luggoge, sparts equipment, flags, bonners, shower curtains. Prevents teor. ing of materiols - aclually strengthens them. Hundreds of uses for everyone - everywhere. Complete with 300 astorted eyelefs and instructions. Shpg. wi., ith Ibs. HD-42-EYELET TOOL ....................................... 1.59 HD-443 EXTRA EYELETS - Pkg. of 300 ...............Net 39

## NEW Swingline 3.99

 \#101 Stapler Gun- Migh Compression Model
- Steples withia 1/16" ef cerner
- $100 \%$ Jom Preef
- Open Chennel leading

Revolutionory, now stoplo gun with tremendous, pile driv. Ing oction. Delivert as mush diving power os moching twice its sire ond welght. Highly moneuverable - per. fectly balanced - extremely lighiweighi. All cose hord ened steel construction. Rust proof, bonderized finish. No oling required at any time. User two staples sizer $4 / 18^{\prime \prime}$ and $\$ / 16^{\prime \prime}$ - with no mechanical shonges. Used in carpentry - woodworking - fencing - upholster disploy work - insulating. - screenine - weother strip. ping - eic. Built in staple exproctor. Visible stople lood indicotor. Monde locki flush when not in use Camplete with pockage of $5 / 16^{\circ}$ alaples. Shpg. wt., $11 / \mathrm{lbs}$. ND. 322 List 84.05
ND. 323 Hg $10004 / 16^{\circ}$ staples …....................Not . 40
NB. $314 \mathrm{Ang} 10005 / 16^{\circ}$ stoples
. Nel .40
Multi-Purpose Staple Gun Kit

12.87

- Ono squeero... and you've nalled ist - 4 New Artachments

Kit contoins everything you need far $100 \%$ of noiling lobs. One hond operation-double leveroge for mose in handling. Shoots a siaple wherever you'd drive noll T. 50 gun hondles four different stople sizes, $\% \%^{\circ}$ noll "/", and $9 / 16^{\prime \prime}$. Includer $T .50$ gun, 5000 ou't itoples ond stople remover. Plus now screen stopling attochment wire stopling ottochment, window shad fcylindrical surs lace) affachment. Shpo i, indow shade \{cylindricol sur HD-474
.Not 12.87

## All PURPOSE GREASE GUN

- Functional-Ireuble.Fres -Easy looding
- 3.000 lbs. Prescure per Sq. Inch


## - ${ }^{2}$ 's smatim monit

$\$ 1.98$
Functional, troublefres, ail-purpose, as modern button control. Developi up to 3,000 ibs. pressure per square inch. The 3 inch straight nozzle makes easy wort of those hard-to-reoch greote fittings. The ideal lubrlestor for mainraining powered hown mowers, workshop tools, outomobiles, oulboord motors, troctors, shain sews, ite. Amber tronslycent body with o relfow bose. Made of taugh tenite, stonds by itself. Fiti hond comfortably. Shpe. wt., $1 / 2$ ib
HD. 334
Nef rach 1.95

## HYDRAULIC PUMP OILER

 - PEAFEC OLEER FON 1001 USES LIGHTWEIGHT HANDY-THANSLUCENT TENITE A new shop-home-office occessorg. Gives fine. pressurised streom thal ubricates hord to ger al ploces. soomlons construction of durable ton of oil of oil. Iubricoles oll troes of mochla orr-hand and power lools-apoll temoroble bose for easy eanverance Remoroble bese for cesy fitting. Drio proof-leak preof derign. Oufmoder e old fashioned oll con. Shpe. wt 1/2 lb.

MD-245
Net eo., ses
18 PC. HEX KEY WRENCH SET HANDLES $9 \uparrow \%$ OF HEX KEY NEEDSI
Set conglyl of 9 hort arim wrenches

 are made of fing jualtty tool steel.
Brichiolated -quality montrolled. Pact. ed in is in poket plestic roll up tit. Handy kit fur abou, garaze. holne wortshop. Shpe. Wt. I 1 gn libs. HD-242

# Depend on lafayette For Outstanding Values！ 

## 6 PIECE MAGNETIC SCREW DRIVER SET

ive inierchangeable－hardened on ompered－tool steel blades：unbreak ble，thockproof，chuck－type amber handle．Consists of $1-4 \times y^{\prime \prime}$ blade， $1-4 \times 3 / 16^{\prime \prime}$ blade， $1-6 \times 1 / 4^{\prime \prime}$ blade， $-6^{\prime \prime}$ \＃1 Philips head， $1-6^{\prime \prime} \# 2$ hilips head，I－amber
MD．10－Camplete with plastic case

## 6 PIECE RATCHET SCREW DRIVER SET

Three－way ratchet with brass gear mechanism．five interchangeable fully polishod，hardened and fem pered toal stel blades．Unbreak ble，hoctroroof non－Anflommobl omb，hockion， amber handle．Cansists of $1-31 / 2$
／6 cabinet， $1-31 / 123 / 16$ cabinet
－51／xI／\％mechanic， 1 －Philips 華｜4／4x3／16．1－Philipe \＃2 $41 / x 1 / 4,1$－Amber ratehet hondie with chucit．In piastic roll up klt．Shpg．wt．，i lb
MD－159
10 PIECE NUT

## AND SCREW DRIVER SET

fully polithed，hardened tompered，tool steel blades and hen－drivert fine chromite plated for long life．Siz nul driver $-3 / 16^{\prime \prime}, 6^{\prime \prime \prime}, 5 / 16^{\prime \prime}, 11 / 32^{\prime \prime}, \psi_{0}^{\prime \prime}, 7 / 16^{\prime \prime}$ ．Three
 $1 / 4^{\prime \prime}$ ．Unbreatable，shockproof，non－Inflammable amber hondte with flanged chuck．Complete with heory plastic roll up tif．Shpg．wt．， 1 ib．
MD． 160
Net 1.59


Eight sockete $3 / 16^{\prime \prime}, 7 / 32^{\prime \prime}$ $1 / 4^{\prime \prime} .9 / 32^{\prime \prime} .5 / 16^{\circ}, 11 / 32^{\prime}$ $3 / 8^{\prime \prime}$ and $7 / 16^{\prime \prime}$ ．Flesible thaft drive for those hard to reach spots．Fiot，reversible retchet drive． $31 / 2$ watensio Mo． 119 Net 1.59

## ADJUSTABLE END WRENCHES



Drop forged steel．Hardened jawn－Polished noses． MP－43－4 $1^{\prime \prime}$ ．Shpe．wt．， 4 oz
MD－4－ $6 y_{4 " \text {＂}}$ Shpg．wt．， 6 oz
MD－45－8＂．Shpe．wt．， 10 oz．
MD－193－ $10^{\prime \prime}$ ．Shpe wr．， 1 io $5 \%$ •
103－10．Shps．wi，10．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．95 ©0

## 7＂COMBINATION TIN SNIPS

## 过 $1.16^{\circ}$ cuis curves

Made of forged sleel，hardened，lempered and pround． Highest quality pollshed steel blades retein keen culting edges．Handles hevo blue lacquer finith．Shpe，wh．， 2 lbs． MD－411

## TORPEDO AND LINE LEVEL SET

 पव द्र 01.49Nine way oluminum torpedo level with chreme plated top Has three loval vials，horizontol，vertical plumb，and $45^{\circ}$ Precisely machined base．Rust proof－can＇t warp．LIne lavel is hex shaped for use as surfece ievel；oluminum far light woight－lesi thon $y_{1}$ oz． 2 hook hold level securely on line．Shpe．wi．，I Ib．
MD－241－Set of 2 levels
Not 1.49

## ELECTRIC HANDI－SPRAYER

Sove fime and moneyl 80 lb ，nozzle presivie sives professional results． Sproys all types of paint，enomels ond lecavers．Any spreyoble llauidl Ex． clusive swival nazzie permis spraying up，down，or sidewrove withoul thiting lor．Instant iproy control－lingertip odjustmont from mist to cene ar straight streaml High Impoct olostic housing－ all parts of stainless steel and bross． Complete with 16 or．Moson Jar and 8 ff ．cord．Shpg．w． 4 lbs．
MD． 73 …．．．．．．．．．．．．．．．．．．．Not，e0．6．2S lets of 3．©0． 5.97

2.85 SWEDISH STEEL CHISEL SET


## －Sizes $1^{1 "}-4 / 2^{\prime \prime}-1 / 2^{\prime \prime}-1 /{ }^{\prime \prime}$

Augced．tang type，well bslanced chisels． Tang extends well into plastle handle． mushoom of breas．Hand forced hardened mushroont of break．Hisnd foriced hardened sharpnets．Shpe．Wt．． $11 / 3$ lbs． HD－426

Not 2.85

## ＂FOREMAN＂LAYOUT TOOL


－does any layout work with Ease
scaibes circles up to 20 feet in diam．

Not fust another rulo－but a multi－purpose 10 f ．layaut tool．Doet any layout work－marking，scribing，squaring out roomst scales plons，marks any material with half－line occurocy：occepts knlie blade for ripping sheetrock，eici marks radius up to 10 ft ．；lecks in at any place on scale． $10 \mathrm{ft} . \times 3 / 4$ white tope includer scelos for 32 nds．， 16 thes．－ inchos，foot plus inchy archliects scales，the loyout scale， cutomatle lock，scribing pin．Shpg．wt．，I lb． MD－ 110.
2.75


## FRACTION OF AN INCH

 ADDING MACHINE－ADDS AND suatRacts fractions
－CORRECT AnswERS INSTANTLY －NO CONVERTING
This new tool permils continuaus adding or subtracting of fractions，decimal equivolents，or mixed fractions and decimols．Answers are shown instantly．Only one mov ing part－aztreme simplicity of eperation．Inveluoble for the shop and technical school－office－foctory－ machinlsts－deslgners－draftsmen－ongincers．Anyone who works with froctional measurements．Made of satin－finished aluminum－only one maving part－num bers and Ifies etched and filled far years af trouble free service．Complete with plastic case and instruc． tlons．Shpe．wi．， $1 / 2$ it．
HD－297．
．Net 2.65


## MAGNA－MAG

6X moonifying glass with bult in masnet．Aftaches to any ferrous metol．Simplifies reading of vernier scelen，celipers，goges，rules，ofc．A vest pocket tool for mochinists，ley outmen，drattimen．Inspectors，engl． neers．Saves IIme，reduces eyestrain insures accuracy．Detects surfoce flaws in dies，sheet metal，efc．WIII withstand rugged urage．Shpg．Wt．， 4 or．
HD－2 1
Net 69

## VERNIER SLIDING CALIPER

## .95



Sherp pointed proiections for accurate dividing，scribing． tc．Leck nut lnsures agoinat errors ceused by sliding gauge．Rule graduated in 16 th and 32nds plus $5^{\prime \prime}$ depth gauge．Precislon－made．Shpe．wt．，I lb．
MO－221
Net .95

GRIPSO TRIGGERMATIC VISE PLIERS
－SMOOTH TRIGGER RELEASE

Vise pliers lock an with one ton orip．Turnbuckle adjust． ment with concealed threads．Releaser instantly with the touch of a finger． 5 tools in ones hand vise－nut wrench－ pipe wrench－clamp－pliers，Shpg，wl．，IV，lbs． HD－238

Net 2.21

## GRIPSO MULTI－DUTY PLIERS <br> － 10 TO 1 COMPOUND LEVERAGE

Now 3－plece dosion muttiplies hond power 10 times 4 position parallel laws give non－silip grip on nuts，bolts， plpes，pins，anything in hord－fo－reach places．Won＇t chew corners off nuts．
MD－239－Shpg．wt．．Its Ibt
Net 2.32

## GRIPSO GEAR LOCK PLIERS

－power ACTION

Most powerful－practical plier ever made．Won＇t slip under any lood．Geared for greater leverage in each position． Positive orip on round or hat surfaces．Snips 10 penny nall with ase．Opens parallet to $1 \%$＂．Length $9 \%{ }^{\prime \prime}$ ．High quallity alloy steol．chrome plated．Shpe．Wi．，
MD．2 4
Net 2.35

－EASY ADJUSTMENT
OF CUTTING BLADE
ides and base are ground and pollihed far high aceuracy In this low cost wood plane． $6 \%$＂overall length， $1 \%{ }^{*}$ wide．Sperialty hardened，pelished steel blade．Shpg．wt． 2 lbe．
HD－412．－．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 1.20

## 5 PIECE <br> OPEN END <br> WRENCH SET <br>  <br> Streamilined ponel bor wrench set．The beat designed cer－ bon steel wrench on the morket．Ten different openings $5 / 18^{\prime \prime}$ to $\frac{1}{4} 4^{\prime \prime}$ emborsed in wrench．Velca rust resistont finish．With hinged contoiner．Shpg．wt．， 1 ib． <br> HD． 162 <br> Net .98

## TRI－TAP TOOL

### 1.95

－SERERICREN－CAATSMEN－MECNANICS
－ONE TOOL TAPS TMREE BIz量 TMREADS
－6／32－6／32－10／32
Cleans－cuts－taps ony of the three most common thread slies used in electronic and electrical work．Three sizes on shes uled in electronic and electrical work．Threes sitet on one tool－saves time－siminales searching．Hardness
to 80 Rockwell on scale C material，Shpg．wh．， I lb．
to 80 Ro
MD－2 19
Not 1.85


Tubular frame．Adluste for $8^{\prime \prime \prime}-10^{\circ}-12^{\prime \prime}$ blode．Contoured handle and thumb rest far firm grip and comfart．Chrome plated ivbular steel frame．
MD－211－Shpg．wt．， 2 Ibs，．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．Net 1.35 MD－212－10 Blade 24 teeth per In． 60 oz．．．．．．．Dos． 59 MD－213－12 Blade 24 teeth per In． 6 oz．．．．．．．．Dos．． 69

## AUTOMATIC SCREWDRIVER

3－way spiral ratchel．Spring return．Fully wekel plated． Rosewood handle． 3 screwdriver bits． $16^{\prime \prime}$ long．
MD－281－Shpg．wt．， $11 / 1$ lbs．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．．． 2.40

## SAVE - With Lafayette Shop Essentials!

## 6" DIAGONAL

 SIDE CUTTING PLIERS

- Scientifically heat treated
- Haned and fitted culting edges

Procision made by croflsmen of drop forged steel which is hordoned ond rempered. Highly polished to o professional linish which ys rusi rod fimed Mondles ore properly designed to give maxlmum cuto iting leverige. Worth many times the ting loveroge. Worth many HD-49

Het eoch .79

$\dagger$

## TOOL STEEL PRECISION

 TAPERED REAMER- Long gradual taper
- Removable "T" for use in drill chuck

Quickly onlargas holes to $\%$ " in diomefer in metals, wood ond plostic. Remaves burrs and countersinks holes. Hos grodual taper down to $1_{0} 0^{\prime \prime}$ paint. Will fit any $\%_{0^{\prime \prime}}$ drill chuck. Mochined ond furned cutting. drill chuck. Mochined ond Murned curting edges. Overoll length 4 it is.
MD-357
Net each 59

## LIGHT WEIGHT LONG NOSE <br> 

Ideol for oll types of dellicate work and for reoching into hord-lo-got-ot places. Spifing closing-holds wires, nuts, screws, elc. Hondy for mechonics, assomblers, habbyists. $81 / 4$ tons. with soft plostic colored hon. dies. Shpg. wh., 4 oz.
HD-462
Not .94


The anty proctical way to grip and Thold imin practicm and plecos. $1 \%$ " dio can lawe open to $/ /=$. Wountod on a 4 comfortable, forrulad wooden han di. Hold, worl for drilling, morliding illime. nwing. otc. Endion user Mop ond mondirort. Shpe. We. 1 lb .

## Pin Vise



Has tanderd $1 / 4 "$ ehuck with 3 hard oned jans. Cluck opening from 0 " to $1 / 4$ ". Set on "easy-grip" ferruled wood handle $4^{-}$tong Holdi amall drills. roomers, scrow bith, files, ote A not. ural" for the nobbyist and craffsmen, Shpe. Wt. $1 / 2 \mathrm{ll}$.
MD. 95

Not 65 C

## 8' LONG NOSE PLIER WITH SIDE CUTTERS



- Hardened and tempered steel
- Provision lor stripping wire
- Knurled sure grip handles

This polished pliter is mode of drap forged steel which is rust resistont. Is built to withstond years of rough lough work. Shpg. wt., I lb.
HD. 51
Nol each .89

## 43/4" STUBBY SIDE <br> CUTTER PLIERS

Miniafure, drop forged, combination sid cutters. Designed for use in electranicshobby work-ignition-itc. Wherever small versatile pliers ore needed. Shps. wf., 8 oz. HD-50.

## "MAGIC TIP" <br> SLUG RETRIEVER <br> (10) <br> 

New funing slug retriever for Stondord Coll funers. Fits now wide slolted slugs. Fits doep sealed tuning units. Retrieve lost slugs whowt removing chassis. Molding mechonism is internol and fully outomotic. Alloy blode; Tenite handle. Precision built to lost. Shpg. Wt., 8 az HD-40-11" overall ................. Net 1.68 MD-41-15" overoll ......................Net 2.24

## BLONDE PRECISION OILER

is o drop or a squirt of oil where you want it. The only procilical Instrument for precision oiling. Spout is only .003 in. diam. Mode of stainless steel and buty. rote. Filled with cleor, non-stoining mechine oll. Con be reblled. Hypo oction prevents messy, harmiul overolling of presision equipment. Shag. wf., 4 oz. MD. 311

## MILLER WIRE STRIPPER



A really good wire stripper ond cutter. For any sise wire, stronded or solid. Adiustable arm on handle for vorying wire sizes. Cuts and strips af ony point along wire. Made of hardened toot steet - Bnaly ground culting edoes. For servicemon - strio or production work. Shps. wt. 4 oz .
 SELF OPENING STIUIPPER:
Similor to above except hos bullt in spring device to held cutter open. Speeds work on praduction line. Hos ring- loich to hold blodes in closed position. Shpg. wi. 4 or,

## ALL-PURPOSE <br> HACK SAW

Fits where ordinory hack sows cannot be used. With $71 / \mathbf{N}^{*}$ lopering blode. Shog. 10 oz.
HD-43.............................................. 29
HD-44-Extro blade

## s" CHROME PLATED

 DIAGONAL CUTTERS- heavily chrome plated - also designed for crimping wire - scientificalir honed and fitted cutters
WIII nip and cut wire equolly well. They ore mode of hoot treoted, tempered, ond hordened steel. The precision cuttors are sharpened ond filted to micrometer tolerance They ore heovily chromed to a high lustrous finish. HD-355 ..Wi., I lb....Net ooch . 79


## PLIER <br> GRIPS

Taugh, non-skid insulation. Bright red for cosy locoting in toal box. Molded rings at end offord length desired. With instructlons for opplying. Shog. wt., 6 oz. HD-125.
WHITE-FACE STEEL TAPE


6 ff . white blade with eosy-to-reod block morkings. Unbroakoble die-cost case with bright-ploted finish. Case is squared to permit inside ond oufside readings. Blode is $1 / 2^{\cdots}$ wide best spring steel. Baked white enomel finish. Shpg. W1., 6 oz.
HD-79-
Net .45
10 fl . tope: (A) Similor to obove but 10 feet long - for that added canvenience when extro length is needed. Wt., 6 oz. MD. 178.

30 ff . tape: (B) New 50 ff . white steel tooe in non-breakoble cose. Non-Rust. Clear black numerals on white. light weight. Eoslest rewind - 30\% less turns. Shpp HD-179


12 PIECE SCREW
DRIVER SET

- 10 Popular Slie Ditvers
- 2 Metal Wall Racks
Here is a 12 -plece serew driver set that cantoins a size for every job ond for every need. Magnerlzed blades. Plastic handies U.L. opproved. Includes 2 metol wall rocks for easy mounting. Shpg. wt., 12 oz . MD-406.

Net . 99


## MAGNETIZED HEX KEY SET

- 7 Popular size Wrenches Maldad Rack-Case
Seven mognetized wrenches mode of brightplated, hordened tool steell $5 / 64^{\prime \prime}, 3 / 32^{\prime \prime}$. $1 /{ }^{\prime \prime \prime}$; $5 / 32^{\prime \prime}$; 3/16" 7/32"; $1 / 4^{\prime \prime}$. Molded rack-cose with tronsporent cover keeos wrenches neatly separated for quick hondy use. Shpg. wf., 5 oz. MD-407.......... 5 .
MD-407.
Net .59


## AUTOMATIC PUNCH

### 1.98 -

Speedy, outomatic, and adlustoble - o single-hand operoted punch gives light or heary Impressions with lust the furn of a scrow. Shpg. Wt., 8 oz.
HO-171.

## ADJUSTABLE WATER PUMP PLIERS



- Drop Forged steel Polished Head $81 / 2^{\prime \prime}$ versotile, odiustable pliefs. Wrench type actlon-slip joint convenience. Milled toeth for firm, non-slip grip. 5 positionslows porollel in eoch. Shpg. w1., I lb. HD-52...

COMBINATION SQUARE


Made of fempered and hordened-fool steel, this reversible screw driver con be instontly converted into elther o Philips type or one with a regular $1 /{ }^{\prime \prime}$ " blode. Just pull out. choose the desired type, and snap in. Ma. chined plostic handle is shockproof and flomeproof. Blode is mogneflized. Shpg. wt., 4 oz.
MD-408.
POCKET "PENCIL" MAGNET

- GIVES YOU 10 INCH FINGERS!
- retrieving tool - nall starter

Powerful Alnico magnet contained in peus type body with pocket cllp. Fleriblo arten.
 nuts. Eerews. Tachers - separate omell alumeInum, brass and ateel parto - holde small
parts for assembly or soldoring - holde srasil
 pocket juat litre pencill Eilundrede of une In ohop or home.

## NEW JIFFY TOOL RACK

- HOLDS UP 1029 TOOLSI Now hondy reck for workshops-garegekitchen. All rust proof oluminum-only 12" long. Soves drower space. liems hung and remaved quickly ond eosily. Con olso be used on peg-boardl Quick-masy installa. tlon comes with 3 mounting serows. And what a pricel Shpg. wt. 5 oz .
HD-157.
eoch. 45

ADJUSTABLE HACK SAW


Complele with 8.Inch blade.
Accommodates $8^{\prime \prime}$ to $12^{\prime \prime}$ blades. Blade con bo foced in four diroctions. Easy-grip compasition handle, nickel-ploted shock. HD-170 .... Shpg. wh., $11 / 2$ lbs.........Net . 69 HD-212 $10^{\prime \prime}$ flade, 24 seeth per in. Dz. . 59 HD- $21312^{*}$ Blode, 24 teeth oer in. Dz. . 69

## TOOLS FOR LAB - INDUSTRY - WORKSHOP

Deluxe Automatic Wire Stripper

- "Delloyed Action Return" - 3 hole prosision ground blader - Strips solid or stronded Strips sizes 12 to 20 Automatic - efficient - easy to use. Strips insulation from all wires, 12 to 20, neally and quickly. Delayed relurn action prevents crushing fine wires. A real time sover for servicemen electrical workers - production lines - etc. Narraw spaced handles far easy grip. Lightweight and easy action for leas fatigue. No bother of chonging blades or odiusting cutter for varying wire sizes. Entremely well builp for yeors of service and uniform performance. Shpg, wt., I $1 / 4$ ths
HD. 349 - Llist $\$ 8.25$
Ne: 3.45
per pr. Net. 97


First quality-rugged-skififulls made-acrewdrivers and hex nut driters. Forged of handles. Winged end of shate prerents stect. Shock proof-break proot Xicelle plastic handies. Winged end of shaft prevents turning of blade In handle. Pertect hurr-free Areraze shpg. wt. of screwdriver is 6 azs. of nut driver 8 ozs.

## SCREWDRIVERS

| $\begin{aligned} & \text { ROUND } \\ & \text { Storth } \\ & \text { No. } \end{aligned}$ | $\text { Type }=$ | Stant | Size | Over | Net |
| :---: | :---: | :---: | :---: | :---: | :---: |
| H0.484 | R144 | 4" | \% | $8{ }^{\prime \prime}$ | 75 |
| H0.485 | A146 | $8{ }^{\prime \prime \prime}$ | \% | $10^{\prime \prime}$ | 78 |
| H0.486 | R148 | $8{ }^{\prime \prime}$ | 4 | 12" | . 84 |
| P0.487 | R182 | $2^{\prime \prime} \mathrm{I}$ | 16 | \% 46 | . 33 |
| HD. 488 | A183 | 3" 1 | 1/1 |  | . 27 |
| MO. 489 | R184 | 1"1 | \% | 64 | . 39 |
| MD. 490 | R186 | $6^{\prime \prime}$ |  |  | 42 |
| HD | R188 | $8{ }^{\prime \prime}$ | , | 103 | . 54 |
| SET-SCREW TYPE - Wjth pockel cllp |  |  |  |  |  |
| 4 M .492 | R184: |  | H" |  | 27 |
| M0.493 | R3323 | $3^{\prime \prime \prime} \times$ | $3 / 32^{\prime \prime}$ | \%" | 27 |

SQUARE BLADE-heatler Juty

| H0-494 | S144 | $4 \prime$ | 8" ${ }^{\prime \prime}$ |
| :---: | :---: | :---: | :---: |
| H0.495 | \$146 | $6^{\prime \prime} \times 1 /$ | 10*. 87 |
| MD. 496 | 8148 | $8^{\prime \prime}$ I ${ }^{\prime \prime}$ | $12^{\prime \prime} .96$ |
| HD. 497 | 53164 |  | 7\%".66 |
| PHILLIPS | SCREWDRIVERS-alloy steel |  |  |
| HD. 498 | $\times 101$ | $3^{\prime \prime}$ H ${ }^{\prime \prime}$ pt | 644 " 69 |
| HD-499 | $\times 102$ | 4" ${ }^{\text {\# }} 2$ | 7\% ${ }^{1 / 4} 10.67$ |
| HD. 500 | $\times 103$ | $6{ }^{\prime \prime}$ 妾3 ${ }^{\text {p }}$ | $10^{\prime \prime} 1.17$ |
| HD-501 | $\times 108$ | $6^{\prime \prime}$ \# 1 yt | $10^{\prime \prime} .75$ |

HEX NUT DRIVERS

- Used as Volume Contral Wraneh

| $\begin{aligned} & \text { Seock } \\ & \text { No. } \end{aligned}$ | Type ${ }^{\text {F }}$ | Nut Size | Length | Net |
| :---: | :---: | :---: | :---: | :---: |
| H0.502 | 6 | 3/16" | $6^{\prime \prime}$ | . 72 |
| H0.503 | 7 | 7/324 | 6" | . 72 |
| HD-504 | 8 | 1/4" | $6^{\prime \prime}$ | . 72 |
| HD-505 | 9 | 9/32" | $6^{\prime \prime}$ | . 72 |
| H0-506 | 10 | $5 / 16^{\prime \prime}$ | $6^{\prime \prime}$ | . 72 |
| H0-507 | 11 | 11/32" | $6^{\prime \prime}$ | . 72 |
| HD-508 | 12 | 3/8" | 6 " | . 72 |
| H0.509 | 48 | 1/4" | $9^{\prime \prime}$ | . 81 |
| HD. 510 | A10 | 5/16" | 9 " | . 1 |
| MO-511 | 412 | $3 / 8{ }^{\circ \prime \prime}$ | 9 9' | . 81 |
| MD. 512 | S8 | 1/4" | 3-1/4" | . 57 |
| MO-513 | 510 | $5 / 16^{\prime \prime}$ | 3-1/4'" | . 57 |
| HO-514 | S12 | 3/8" | 3-1/f" | . 57 |

## NEW HOPDY

- Accurtt level and insiline Measure One Man Con

Do Any levelling tob - A tool of a Thousand Uses Meosures incline down to the thinness of a dime at 25 ff . I also shows how much correction is needed. Simple to operate: iusi 3 osy steps. Emplays sollt image principle for microUse if far brick laving, table levelling do any levelling job carpentry, yord grading, cantaur olowing and thausand opher uses. Truly a handy and useful instrument and thausand ofher briek mason and hondyman. Shog, wt. 6 lbs every complete HD-417 In lats of 6

Net 4.86
HDe44 1 Corrying Cose for Hoppy Transif..


## XCELITE 150 TOOL HOLSTER

Mode of pllable form fiting heovy leather. Stitched to solid Russel Soddle leather back. Tap quality hot wax thread, locked with steel rivets. 5 pockets and knife snap. Snap is specially designed far one hand mation to attach, remove knife. Ruggedly constructed for o life lime of hard use. Overall size $8^{\circ}$ less rools. Shpg. wt., 1 lb . HD. 523

Net 3. 15

NO. 127 WALL SET
Seven mast popular, color coded Nut Drivers in o barrow. proof" steel wall rock. Includes wrenches from $3 / 16^{-1}$ to $3 / 3^{\prime \prime}$. All blades highly polished. Metol holder in red wrinkle finish. Shos. wh., $21 / 2 \mathrm{lbs}$.
HD- 524
 Net 5.76

## XCELITE SEIZER

All stainless steel. $6^{\prime \prime}$ lang. They hove unusual holding qual. itles necessory in many servicing situations. Shpg wt plo HD- $\mathrm{H}^{1} \mathrm{~B}^{1 / 2}$ lbs.

42H Stroight Nose
Net 4.27


NO. 99 PR MULTI-PURPOSE SET
11 interchangeable nut drivers and serewdrivers in a durable roll plastic kit. 9 nut divers from $3 / 16^{\prime \prime}$ to $1 / 4^{\prime \prime}$ - double ended standard screwdriver - double ended Phitlips screwdriver - single hondle far all blades. All bladas interchange easily. Shpg. wt., 2 lbs.
HD-5 25

Net 8.67
No. 99 JR - Packel size version of the famaus 99 PR. You get 7 nut drivers, $3 / 16^{\prime \prime}$ ta $3 / 6^{\prime \prime}-2$ Phillips blodes -2 standard screwdriver blades - and $99-2$ handle. All in rall-up durable plastic kit. Shpg. wi., $11 / 8 \mathrm{lbs}$ ND 726 Net 7.50

NO. 137 BENCH SET
Sturdy, hondy, metal bench set. The mast trequently used nuf drivers - colar caded handles - highly palishod blades. Size:



## POWER CRAFT JIG SAW

- enclosed mechanism
- self lube bushings
- rugGed construction 0.05

Pistol grip hondle gives excellent contral. Three blades supplied One medium, one fine, metal cupting and ane waodcutting. Cuts casp ir an, nails, bolis, sheet metal, plpe, plastic boord, 8 X , condult, hard and saft woods, aluminum, brass, lead, plosfic, frazen faods, elc. Shpg, wf. 12 oz . MD-47..

## "CHAMP" CRIMPING TOOL

- STRIPS WIRES
- cuts bolts
- crimps lugs


New model also crimps solderless terminals and con nectors. Three teols in anel Cuts and strips wire fram sizet 22 to 10. Cuts brass or steel mochine screws without dom oging the threads; size $10-24,10-32,8-32,6-32$ and 4-40. Has accurately sized stripping natches and procision threaded cutter holes plus stud size gwage stamped on tool. Hardened steel, shock-praf plastic hondle.
MD-66-Shpg. wt., 1 ib.........................................Nei 4.95

## 12 NEEDLE FILES - SWISS PATTERN

Mandy, pocket-sized affset screwdrivers with built in ratch. -1. The perfect answer to thase "knuckle busting" hard-ta $5 / 16^{\prime \prime}$ p.aces. Drivers are $43 / 4^{\prime \prime}$ lang, with either $1 / 4^{\circ "}$ and Srigh piated blade ar $=1$ and $=2$ Phillips ivpe blades. Bright plated finish - pasifive ratchet action. Shpg. wt., HD-24's - Regular blades HD-246 - Rhillips Type MD-247 - Sel of two
Page 280
Net .59 Net .59 Net 1.05 MD-88 .....Net 1.95



## RATCHET OFFSET SCREWDRIVERS

## NeW NEW CHASSIS

- EASY-SMOOTH-HOLES IN SHEEY METAL
 , $11 \%$

Five most often needed round hole punches. Do the iob in minutes $\rightarrow$ sove hours of tedious hand lobor. Cu's smooth occurote holes far sockets - plugs - contrals penel lighis - switches - terminals - most radio ports Warks equally well with sheef metol - sheet plostics composition boord etc. Drive with ony wrench - or with 1 handle included. Punch sizes included are $1 / 2^{\prime \prime}, 1 / \%^{\prime \prime}$ $3 / 4{ }^{\prime \prime}, 1^{\prime \prime}$ and $11 / /^{\prime \prime}$. Supplied complete with punches, dies, I drive hondle, tapered reomer, fitted wooden case and instruclions. Shpg, $w \dagger$. $21 / 3$ lbs HD-471 Nel eo., 5.49 , Nel eo., in lap of $3 \ldots 4.94$

NEW! SQUARE PUNCH SET

## - 3 NEEDED SIIES - COMPARABLE


 easy to use.


Sove lime - sove fort - cutting square holes in chossis - ponels - sheet metal up to $\%$ ". Mast often needed sizes for squor chossis componenis. Multiple cuts ollow ony slize square hole. Drive punches with any wrench or wlth T drive handle included. Cuts smooth, occurate squore holes in mapal - bokelife - plabtic - composition boord eic. Complet with $1 / 3^{\prime \prime}, 5 / \%^{\prime \prime}, 1^{\text {ne }}$ punches - dies - drive screw, T. hondle and wooden cose. Shpg. wf., 2 lbs. HO-480

III

## 5 PC. ASSORTED FILE SET 98

Five files selected for utility and durability. Good quolity-equal to tiles selling far far more. Eoch one a different pottern - three slondord shopes - iwa triangular. Sizes o" to 12". Shpg. WP., 2 lbs.
HD-456
Nef .98

## genam cmsss sumests 8 8. Cut holes in metals up to $1 /{ }^{\text {" }}$ thick with the Iurn of on ordinory wrench. No sowing, reoming or filing. TYPE 730 ,

 ordinory wrench. No sowing, reoming or filiRound Holes, AVG. Shag. wi., I $1 / 2$ lbs, eo

| Stock No. | Sire | Net ea. | stock No. | Sixe | Net ea. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HD. 590 | 1/2" | 2.29 | HD-603 | 1 | 2.65 |
| HD-591 | $9 / 16^{\prime \prime}$ | 3.53 | HD-604 | 1\% | 3.00 |
| HD. 592 | \%" | 2.29 | HD-605 | $11 / 8$ | 3.39 |
| HD-593 | 11/16" | 2.29 | HD-606 | $1 \%$ " | 3.97 |
| HD. 594 | \%" | 2.29 | HD-607 | $13 / 4$ | 4.50 |
| HD. 595 | 13/16" | 2.29 | HD-608 | 1\%" | 5.60 |
| HD-596 | \%" | 2.29 | MD-609 | $2{ }^{\prime \prime}$ | 6.04 |
| HD-597 | 15/16" | 3.97 | HD-610 | 21/0" | 10.80 |
| HD-598 | 1 "' | 2.51 | HD-611 | 21 | 6.57 |
| HD-599 | $1.1 / 16^{\circ}$ | 2.65 | HD.612 | 21/8" | 13.00 |
| HD-600 | $11 / 4$ | 2.65 | HD-613 | 2\%" | 16.09 |
| HD-601 | 1-5/32" | 2.65 | HD-614 | 2.25/32" | 11.02 |
| HD-602 | $1-3 / 16^{\prime \prime}$ | 2.65 | HD-615 | $3^{\prime \prime}$ | 22.93 |
| TYPE 731, Square holes, AVG. Shpg. wi., 2 lbs. |  |  |  |  |  |
| HD-616 | $1 / 3^{\prime \prime}$ | 4.18 | HD-619 | \%" | 5.29 |
| HD-617 | \%" | 4.32 | HD-620 |  | 5.73 |
| HD. 618 | 3/4" | 4.76 |  |  |  |
| TYPE 732 , KEYED SOCKETS. AVG. Shpg. wr., $11 / 2 \mathrm{lbs}$ eo. |  |  |  |  |  |
| HD-621 | 13/32"' | 4.41 | HD-624 | 1-17/64** | 5.15 |
| HD-622 | 15/16" | 4.32 | HD-625 | 1-21/04** | 5.59 |
| HD-623 | 1.11/64' | 4.71 |  |  |  |
| Replocement cap screws for 730, round hole. punches |  |  |  |  |  |
| obove. Shpg, wi.: 4 ors, N/ Net 26 |  |  |  |  |  |
| HD-627 | 1/6" ${ }^{\prime \prime}$ | rough | /16" | Net | . 26 |
| HD-628 for $\mathrm{I}^{\prime \prime}$ through $11 / 20$.... .............Net . 30 |  |  |  |  |  |
| HD-629 for $1 \%$ " and $13 /{ }^{\prime \prime}$ |  |  |  |  |  |
| MD-630 for $1 \%$ "' through 2-25/32" ............. Net . 53 |  |  |  |  |  |
| MD-631 for $23 / 4{ }^{\prime \prime}$ and $3^{\prime \prime}$ |  |  |  |  |  |

PRECISION MACHINISTS FILES


- dead smooth cut
- 8 popular styies
1.49

Made of exceptionolly high grode steel. Designed to meet the requirements of Tool Rooms - Instrument Mokers Morhinists and Engineers. Used wherever the demond is tor fine work within occurate limits. All ore opproximately $8^{\prime \prime}$ long overall - popallel (mochine lype) long. Set includes: Three square, crossing, dovetoil (verge), holf round, warding, pillor (one sofe edge), square and round. All ore Deod Smooth (No. 3) Cut. In heovy plostic case. Wi. 1 ib . Wf. 1 ib
HD-473

Not 1.49
Precision Engineers Flles: Similor to obove files. Deod smooth (No. 3) cut. All ore appraximately $9^{\prime \prime}$ lang. Slighly heovier stock. Set includes 3 square, holf round, pillor lone sofe edgel, square and round. In heavy plastic cose. Shpg. wt.. I lb.
HD-472
Net 1.10
?

## - 5 NATIONAL COARSE SIZES

Ten tops and dies - most popular notional coorse size. High quality - low cost set for servicemen, hobbyists, experimenters, repoir shops and handymen. Set includes one 100 ond one die of the following sizes. $1 / \mathrm{a}-20$, $5 / 16-18,3 / 8-16,7 / 16.14,1 / 2-13$. Complete with die slock, lop wrenc
HD-635

Net 2.69

## Nan <br> 12 PC. WOOD CARVING SET 1. 29

Polished blodes of good quality high corbon steel. Core fully tempered to take and hald a keen edge. Strong smooth hardwood handles. Heary ferrules. Set includes gauges, speor polnis, round nose, shews, porting pools, etc. For wood corving, sculpluring, linoleum, block corving. Shpg. WI. $3 / 4 \mathrm{lb}$.
HD- 636

Nel 1.29


Culs everything - from soff wood to tough steell It's o planel it's a filel Here in a single toal is o greas new way to do alt sorts of planing, filing, smoothing. Reploceoble blode, double sided for double.life, shopes quickly, easily, gives smoother finish on wood and metal, even cuts speet. Die cast aluminum body-reversible hande. Complefe with
non-clogging, reversible, coorse blade. Shog, wt., 12 azs. non-clogging, reversible, coorse blode. Shpg. Wh. i 12 ozs.
HD- 637
HD- 638

| Nel 2.59 |
| :--- | ---: |
| Nel |

HD-638 Mndium blode, 2 oz.
Net 73

## KRAEUTER "INDUSTRIAL" PLIERS



- ALL WITH HEAVILY INSULATED HANDLES Fine quality-hommer-forged from high grode tool steel. Individually titied, tempered and adjusted. Fully polished heods. Rust-resistont blue tempered handes.

| $\begin{aligned} & \text { STOCK } \\ & \text { ND. } \end{aligned}$ | TYPE | FIG. | DESCRIPTION | NET |
| :---: | :---: | :---: | :---: | :---: |
| MD.650 | 4501.5CG | A | 5~ Diagonal Cutters | 2.24 |
| HD. 651 | 4501.6CG | A | 6* Diagonal Cutters | 2.58 |
| HD-652 | 5601 CG | 8 | 5" Needie Point Dlagonals | 2.83 |
| MD. 653 | 1661CG | C | 6" Long Nose Side Cutter | 2.55 |
| HD. 654 | 1631CG | 0 | 51/2" Curved Long Nose | 2.65 |
| HD-655 | 1830CG | E | 61/2" Slde Cutters | 2.31 |
| HD-656 | 710 CG | F | $10^{\prime \prime}$ Joint Pliers | 2.39 |
| HD. 657 | 1663CG | G | $6^{\circ \prime \prime}$ End Cutters | 3.23 |
| HD. 658 | 2612CG | H | 61/2" Wire Stripper Diag. | 3.09 |
| HD. 659 | 4610CG | 1 | $7{ }^{\text {º Heavy Duty Diag. }}$ | 2.50 |

CHANNELLOCK ELECTRONIC PLIERS


Forged from high grode steet, praperly heat treated, precision mochined for precision work. Specially designed for fine electronics work, these four pliers will sotisfy more thon $90 \%$ of service, repoir and construction needs. Do hundreds of iobs eosier, losier. lang, slender reach precision-matched jows . . hand-honed, speciolly hord ened cutting edges. Blue plastic grips. The 748 . lang reach, end culters ore fine enough to cut o humon hoir-rugged enough to cut 12 gouge copper wire. The 738 . Jong reoch, round nose will pick UD o humon hoir with its precision mochined ports. The 728 -lang reach diaganal cutters have a patented wire stripper that really warks. The 718-lang reoch, flat nose hos o bulldag grip with watchmokers precision. length $8^{*}$. Avg. Shpg. wh., 8 ozs
MD-640 748 Lang reoch.end cutter Net 2.55

HD-642 728 Long reach-round Nel 2.33
MD-643 718 long reach-flot nose...... Net 2.35
MINIATURE WRENCH SETS

Five, Piny offset open end wrenches, Atl interchongeoble use one hondle. Tough, heot trealed steel. Easily remove or offoch the tiny nuts used in sub-minioture electrenic wark, habby, aeronoutical, automative, etc. Sizes are: $5 / 64^{\prime \prime} \cdot 3 / 32^{\prime \prime}, 7 / 64^{\prime \prime}, 1 / 6^{\prime \prime}$ and $5 / 32^{\prime \prime}$. Shps. Wh., B ars. HD-645
Fiva interchongeoble, tiny hen socket wrenches. All fit the some handle. Hold tiny nuts for $\pm 00, \pm 0$ ond $=1$ ihreod Easily gets into recessed hales. Fifs hex nups $5 / 64^{\prime \prime}, 3 / 32^{\prime \prime}$ $7 / 04^{\prime \prime}$ " $\%$ "and $5 / 32^{\prime \prime}$. Mognetized to hold those finy ones firmly. Complete with dust proof, stond up cose. Shpg. WD. 644 $\qquad$
PRECISION SCREWDRIVER SET
Five interchongeoble blodes insert quichly ond firmly info chuck. Blates ore precision mochined, hordened sleel in sizes $100^{\prime \prime}, .080^{\circ \prime} .070^{\prime \prime} .055^{\prime \prime}$ and $.040^{\prime \prime}$. Hondle has swivel top. Perfect for repoiring rodios, oppllances, coms eras, lectric razors, musical instruments, efc. Encellent for kite and model builders. Complate with bose and tran sporent dust caver. Shpg. Wi., 8 oss.
HD-42
HD-42
Ne1 .99

## MINIATURE SCREW HOLDING SCREW DRIVER SET

A tiny SCREW HOLDING Screw Driver Set that contcins o wwiveltod driver handle whase solid locking chuck takes either the $21 /{ }^{\prime \prime}$ or the $13 / /^{\prime \prime}$
length blades. Each blade con interchangeobly length blodes. Eoch blade con interchongeobly toke the spring steel clip that holds all piny screws better than fingers. All four parts are cleverly conloined
MD-64

Net .89

## ADJUSTABLE CURVE

## A

Enables onyone to drow curved designs with ose. The rule is eosily bent 10 ony desired curve with the fingers. Once bent, the rule stoys curved without being held. White plastic frame encloses lead bor ond o steel sheet suppart. Overol F-441

NEW! PRUNING SAW


Remorkuble new blode development for oll fost pruning trimming:wood sowing. Fine Sheffield steel blade com. bined with heavy duty hocksow frome. The ideof tool for pruning.culting green or dried lags-raugh or heavy lum buts threet forpers-foresters-public ufilitios, etc. Culs thr
2 lbs.
HD-4S
HD-453 Blode only, firs oll $12^{\prime \prime}$ Hock sows
HD-211 Heory Duty Hack sow
Net 1.97
Net .83
Net 1.35


Page 282
YOUR ORDER IS SHIPPED AT THE CURRENT PRICE SO THAT YOU BENEFIT FROM ANY PRICE REDUCTION

# Soldering Tools and Solder 



T$\because$ TRIG.R-HEAT, transformerless, instont heap soldering gun. Wotrage outamaticolly regulaied. Only 8 oz. $1 / 4^{\text {" }}$ pretinned lip. Moximum wotts 150 - minimum 75. UL appraved cord and plug. Shag. wi., $11 / 8$ lbs.
MO. 552 2387 tess light .........Net 5.51
MO. 553 238tf with light ......Net 5.87 MD-554 Replocement tip and alement unil w. 10 ors.... Net 2.94

## WALL PENCIL IRONS

## THERMOSTATIC BRAIN

Built to toke "production-line punishment". Qulck heoling-thermastatic octlon prevents tip burning. Drowi heovi est current to heat-drops to idle cur ront when taken from work. 18HD, industrial type. 25 watts. Weighs only 1 oz. 147 has range of 125 to 40 watt MD. 55 only $11 / 1802$. Shpg. wt., 8 oz.
 MD-55614T $\mathrm{H}^{\prime \prime}$ tip w........Net 5.23 HD- 558 Tip for 14 T wf. 2 oz. Net .26

Chemalloy fluXLESS ALUMINUM SOLDER

- EASILY SOLDERS OR WELDS ALUMINUM
- requires no flux OR CLEANING
- EASY AND SAFE TO USE Now. Improved, fluxless aluminum salder will solder, braze, or weld aluminum, zinc, potmetels, copper, bross, golvanized mefols, aluminlzed-copperized-linned
surfaces, Solders thinnest pouge alumi. surfaces. Soldars thinnest gouge olumi. num-even foil-without burn-through, Solders and "fills" die cosp parts. Can be mochined ond polished. Anfi-friction properties permit its use as a dry bearing matal. Use proctically any heap source such os forches-hot plotes-sfove burn-ers-soldering guns or irons. Does not solatter or explode-requires no special thil! or core in handling. Reodily with. stands immersion and conlact with liquids -excepling the mast violent chemicats. Use $500^{\circ}$ for overage work. $800^{\circ}$ for heovy wort on high tensile strength iaints.
 HD. 5611 lb. Buli $500^{\circ} \ldots . .$. Net 1.59



## NEW!

30 watt industrial SOLDERING PENCIL

BUILT FOR CONTINUOUS DUTY

- LGHTWEIGHTA MERE 2 OZS.
- PERFECTLY BALANCEDNO FATIGUEI
- EXCEPTIONALIY

COOL RUNNING!

## ORYX MINIATURE IRONS



- WORLO'S LIGMTEST - ONLY $1 / 4$ OUNCE!
- INCOMPARABLE FOR TRANSIS. TOR WORKI
- ONLY 6" LONG!

Heots in 30 secands-lang life-low val. loge element. Prevents domage 10 small ossemblies- pin poinf heal concentrotion. Sturdy-no ceramic or mico formers. Op. erates from ony $\delta$ volf source-including dry cells, wet cells, filament or step. dry colis, wet ce

## QEPMCEMENT TIPS

Types marked * are solid nickel, others are nickel plated copper.

| Stock No. | Type | Size | For Model | Nel |
| :---: | :---: | :---: | :---: | :---: |
| HB- 537 | A | 5/32" | 6A, 9.6 | . 49 |
| HD-538 | 8 | 3/32" | 6A, 9.6 | . 49 |
| HD-539 | C | 3/16" | $12 \cdot 6$ | . 49 |
| HD-540 | $0^{\circ}$ | 5/32* | 12.6 | 1.76 |
| HD-541 | E | 3/32" | 12.6 | 1.76 |
| HD-542 | F | 3/16" | 18 | 1.22 |
| HD-543 | $G^{\circ}$ | 3/16" | 18.25 | 1.81 |
| HD-544 | H | 1/4" | 25 | 2.30 |

110 valt AC input, 6 volis 3 omp. out. put. For all 6 V . Oryx lrens. With cord HD. 545 Tyoe 54203 Wt., 2 hbs.
HD. 545 TYp 12 VOLT TRANSFORMER
110 valt AC input, 12 voli 2 omp. aut put. For Model 25 and other 12 V . irans Whth card and iran halders. Shpg. Wh.,

## 2 lbs. HD. 54

| $\begin{array}{c}\text { MD-5 } \\ \text { Stock } \\ \text { No. }\end{array}$ | Type | Watts | Tip | 1.11 | More |
| :--- | :---: | :---: | :---: | :---: | :---: |
| HD-530 | 6 | 6 | Fixed | 4.85 | 4.36 |
| HD-531 | $6 A$ | 6 | $B$ | 4.85 | 4.36 |
| HD-532 | 9.6 | 8.3 | A | 4.85 | 4.36 |
| HD-533 | 11 | 10 | 0 | 6.81 | 6.32 |
| HD-534 | 12.6 | 12 | C | 4.85 | 4.36 |
| HD-535 | 18 | 18 | $G$ | 7.35 | 6.91 |
| HD-536 | $25.12 \dagger$ | 25 | H | 7.84 | 7.40 |

- Develops $800^{\circ}$ F.
tDevelops $1000^{\circ}$ F., uses 12 volt source.


## LENKLP TORCH MODEL 295LP <br> $196^{1602 \text { rut }}$ <br> CONTAINER

An all purpose liquified petroleum torch. Does regular soldering-sweat fittings - silver soldering-remove fin ishes, paints and putfy. Self sealing valve permits safe removal of toreh head. Lights instantly-no priming, no waiting. Clean-sootless - odorless
flame More than $2200^{\circ} \mathrm{F}$. Shpo wt. flame. More than $2200^{\circ}$ F. Shpg. wt. $11 / 2$ lbs.
MO- 564
NET 1.96
REPLACEMENT FUEL TANK—for all Lenk LP Torches. Shpa. wh., I lb.

SPYRALINE SOLDER DISPENSER

- $00 \%$ TIN 1 fi. of high quolity. $1 / 10^{\circ} 60 / 40$ ortivored rosin core solder in hondy dit. pemser. Container is nan-inhammabieaflords insulotion when working a "hot" circuit. Eliminates waste-pull out only whet you need. Koep, solder clean ond unsinaled. Qeoches into "herd-ta-getof' joinfs. Shpo. wi., $1 / 8 \mathrm{lb}$.
HD-228 .......Speciol, Phg. of 3, 1.32
Singly, Each
SPYRALINE PRINTED CIRCUIT TOUCH UP SOLDER
LOW HEAT ALLOY $=238$.
An ollay designed for a fast bond with out overhealing crifical circuit boord overloys. Has o brood band melting ronge of $240^{\circ}$. $320^{\circ} \mathrm{F}$; can use low wattoge soldering iron. Sofe for silver coramics and transistors. Shog. wt., 1/1 16 .
HO-416 Not . 62, ea. Package of 31.69
"SAL-MEY" FLUX
SOLERS ALL
MTALS
- NON-CORROSIVE
non-corrosive Aux that will solder oll metals cleonily and permanently-copper to aluminums oluminum to oluminum sopper to steel, etc. No speciol treotment of metal requited. Enioys nation-wide use. Packed in 1 oz. tubes
HD-427 per tube Not 72e
 KESTER SOLDER AND FLUX

Uniform compound of $40 \%$ in and $60 \%$ lead ith eveniy distributed

HD-572 Resin core 3/32 ${ }^{\text {N }}$ Dio. $\mathbf{- 3}^{3}$ oz. Tin HD-573 Resin core 3/32* Dio.-1 1b. Sp. HO-574 Rosin core 3/32 N Dic. 5 N 16 I. 50 NO-574 Rosin core 3/32 Dio. 5 Noib. Sp. MD-575 Resin core $1 / 16^{\prime \prime}$ Dia. -1 16. Sp. MD. 576 Rasin care $1 / 16^{\prime \prime}$ Dia. -5 lb . 50. HD. 577 Acid core $\mathrm{y}_{4}{ }^{\prime \prime}$ Dia. -3 az . If HD-578 Acid core $\%$ " Dio. -1 th. Sp. MD. 579 Acid core $\mathrm{K}^{\prime \prime}$ Dio,-5 Ib. Sp. Net 5.35 KESTER RESIN-FIVE SOLDER Very active rosin core flux. Non-corroinc, trass, nickel plate and ferrous metals.
HD-580 3-3/32" Dio.-1 Ib. Sp. Net 1.11 HD. $5813 / 32^{\prime \prime}$ Dio. 5 itb. Sp. Net 5.35 HD. 581 3/32" Dio. -5 lb . Sp. Net 5.35
HD. $582 \mathrm{l} 1 / 16^{\prime \prime}$ Dio. -1 lb Sp. Net 1.14 HD. $5821 / 16^{\prime \prime}$ Dio. -1 lb . Sp. Net 1.14
HD- $583 \mathrm{l} / 16^{\prime \prime}$ Dia,-5 ib. Sp. Net 5.50 KESTER PASTE FLUX
HO. 584 Nan-Corrosive 2 oz....... Net 12

## ERSIN MULTICORE SOLDER

 Maximum flux action at correct solder melting point. Fast melting, non-corro-sive, non-sticky, non-toxic. 5-core consive, non-sticky, non-foxic. 5-core construction insures cleansing action. $40 \% \mathrm{fin}, 60 \%$ lead. No. 16 gauge.
MO. 585 I Ib. spool.
HD.586.7 Ib. spool............................... 9.45.
Ersin Multicore $60 / 40$ Solder $60 \%$ fin. $40 \%$ lead. \#16 gauge.
MO. 587 I lb. Spool ....................... 1.76 HO-588 7 lb. Spool

Net 12.04
SERVICE PACK: 18 Gauge $60 / 40 \mathrm{~S}$ core solder. Approximafely $20^{\circ}$ on MD-589 \$hpg. Wt.. 12 ozs..........Net . 49

## Values for Servicemen and Dealers



SPECIAL STEEL CABINET (A)-An ideal all-steel cabinet for stocking ond storing small parts. Three drowers contoin six partitions ond one drower one par. lition for larger parts. Beauliful blue hommertone tinish. Sire $6^{\prime \prime}$ wide. $61 / 6^{\prime \prime}$ high, $8^{\prime \prime}$ deep. Shpg. wt. 3 lbs.
STEEL MULTI-DRAWER (B) -Convenient storoge small parts. Constructed with tongue and slot designed o interlock with other units of top, bottom or side. Moy be fitted oround existing fintures for ecanamy of sooce. Handy pull and holder for contents card. Iwo ane green tinish all steel construction. Sire: 23 $21 / \mathrm{x} 5^{\circ} \mathrm{W}$ it 10
MC. 11

Eo., 39c

## NEW! Knicknack CABINET

 $21 / 4^{\prime \prime} \times 11 /{ }^{\prime \prime}$ COMPARABLE VALUE 6.98 Porfoct sloroge for articles up to 6" longl Holds threod, pins, bolts, screws, nolls, stomps, iewolry, cosmelics, fishing lures - hundreds of other items used in home, of-
fice or shop. Crystol cleor tronsparent plastic drowers for "quick pleking." cannot spill, yet instantly removoble to carry to work areo. strength. Smooth sliding ribs molded into bottom ossure oasy opening and extra rigidily. Removoble dividers moke one drowar into three compartments. Welded steel cobinet stands, stacki or hangs on wall. Includes Index lobels, crosswise dividers. Cobinet measures $9^{\prime \prime \prime}$ H $10^{\prime \prime} \mathrm{W} \times 0^{\prime \prime} \mathrm{O}$. Shpg. wt . 8 lbs .
MC-32 .............................................................. 35
18 BENDING AND FORMING BRAKE

- FOR EXPERIMENTERS-SERVICEMEN-SHOPS
- CLEAN SMOOTH EENDS
- FORMS UP TO $90^{\circ}$
- HANDLES UP TO 18 WIDTH IN UP TO 16 GAUGE THICKNESS.
Unique desion permits forming chassis bozes, covers troys, etc. by means of 1 " deep slots in broke-bar which allow corners to fold in. Provides flange edges up to high. Eosy to odiust for thickness, occurocr, ongle o bend. Rugged cons
Shpg. wt. 20 lbs .
Shpg. wt. 20 I
"DROP TOP"' FOLDING BRACKETS

- mounts on any wall surface
- foolproof safety catches Put your walls to work with these new Drop Top brockets. Mounts on any wall surfare. Makes any top-lableflush door-plywood panel-ere. a folding, wall mount. ed unit. Opens to become a strong, steady work bench-toble-desh. Closes flat ogainst the wall. Solety catches lock brockets in harizantal position. Can't swaywigale or bounce. Made of heavy, rigid sleel, bluewray boked-on finish. Sel includes 2 brackets, 4 lug serews, 4 Rawl olugs, 4 wood screws and wrench. $22^{\circ}$

HD.318-list 7.95
Page 284
Net per pr. 8.50

STAK-UP STORAGE CABINETS (E)-Convenient logical smoll ports storoge. Add units of you need them. Stockup os high os you chase-toke opon essily. See thru drowers with "shop" to prevent spill ond lock. Shpg. wh ., $11 / 2 \mathrm{lbs}$. MC. 23-1 double ond 2 single drowers........Not 1.15 MC.24-4 single drowers................................ 1.15 TRANSPARENT UTILITY BOXES (F)-Attroctive plostic boxes ideol for storing screws, nuts, bolts ond hundreds of sther smoll parts. With hinged cover ond buill. in ponti.

| Slork Na . | Dimensions | Compart. | wt. | Eoch |
| :---: | :---: | :---: | :---: | :---: |
| MS.51 | 83 $1 / 2^{\prime \prime} \times 1.316^{\prime \prime}$ | 5 | ${ }^{3} \mathrm{Oz}$. | . 41 |
| MS. 52 |  | - | $7 \mathrm{OL}_{2}$ | . 53 |
| MS-53 | 7"n31/:"81.3/16" | - | 3 Oz | . 41 |
| MS-54 |  | 12 | 7 Oz . | . 53 |
| MS | $103 / 4 \times 6.4 \times 1 \frac{1}{4}$ | 18 | $17 \mathrm{O}_{2}$ | 1.35 |

## AKRO-MILS HAZ-BIN CABINETS <br> - STACK-STANDOR HANG

## Akro-Mils cobinets allow per

 fect storage ond inventory of oll small eloctronic parts. No more frantic moments wasted searehing for small, mis ploced items. Drowors can be divided to meet specific noeds. Stand an flot surtace, can be stocked, or hung from wall. Stack Har-Bin Cabinets back to back-side to side-or top to botrom. Includes index labels, dividers, rubber feef. DRAWERS ore $23 /^{\prime \prime}$ Wide, $1.7 / 16^{\prime \prime}$ Deep, $5 \%$ " long. All madels $0^{\prime \prime}$ deep. $J .24$ through J. $48121 / 2^{\prime \prime}$ wide. J. 64 through J. $12825 \%{ }^{\prime \prime}$ wide.| $\begin{gathered} \mathrm{Stach} \\ \mathrm{No} \\ \hline \end{gathered}$ | Mode | Drawers | Helght | Welght | $\begin{aligned} & \text { Not } \\ & \text { an. } \end{aligned}$ | Net ea. lots of 3 assitd |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MC. 26 WX | 1.128 | 128 | 301/2" | 50 lbs | 52.98 | 47.68 |
| MC-27WX | 1.96 | 96 | 221/2" | 38 lbs . | 41.98 | 37.78 |
| MC.28WX | 1.64 | 64 | 15\%" | 24 lbs | 23.98 | 21.58 |
| MC.29WX | J. 48 | 48 | 221/2" | 18 lbs | 18.98 | 17.08 |
| MC-30 | J. 32 | 32 | 15\%" | 12 lds | 11.98 | 10.78 |
| MC-31 | 11.24 | 24 | 12\%" | 10 lb | 9.48 |  |


'Little Smith" Anvil "Litlle Smith" is the perfect tinkerer-model maker-or iust ploin foolin' orounder. Meosures only $41 / h^{\prime \prime} \times 21 / "^{\prime \prime} \times 2 \%$ " overall. Rugged enough figh for home or habby. Makes a pertect paper welght for the crafismen's bench or desk. Shpg. wf., 2 lbs, HO-460

Net .98

## 3-Way Combo Hammer



Practical combinotion of hard and soft foced hammer Permanent stondord hommer head on one side-inierchangeoblo, solitic rubber and plostic heads fit orher side. Merol porion is chrome plated. Smoolh resilient hordwood handle. Guaranted lbs become your mast often-used hammer. Shag. wh. 2 lbs.
HD-459 HO-168 6 jors $18 " \times 5$ " Board. Shpg. Wi. $21 / 2$ lbs. 1.05

## TAP, DRILL AND DIE SET




## ADJUSTABLE HARDWOOD LEGS

- Self leveling swivel glide
- Easy to attach!

Mode of genvine hordwood. $13 \%^{\prime \prime}$ in diometer at the lop, graceful taper. Each leg has a brushed bross ferrule at the tip. Sanded, reody to finish. Adjust to straight or flored style after attoching platforml Makes any TV set a con. solettel Build your own hi.fi cobinetsl Set of lour legs-complete with hardwore.

| Stock No. | Hf. | Shpe Wt. | Net |
| :---: | :---: | :---: | :---: |
| ML.96 | $31 / 2{ }^{\prime \prime}$ | $11 / 2 \mathrm{lbs}$ | 2.55 |
| ML. 76 | 6 | 13/6 lbs. | 2.70 |
| ML.99 | 9" | 21/2 lbs. | 3.00 |
| ML-77 | 12" | $21 / 2$ lbs. | 3.15 |
| ML-102 | 14* | $31 / 4 \mathrm{lbs}$. | 3.45 |
| ML. 78 | 16" | $31 / 4$ lbs. | 3.60 |
| ML. 103 | 18" | 4 lbs. | 4.05 |
| ML-79 | 22* | $41 / 4$ lbs. | 4.50 |
| ML-80 | 28* | $41 / 2$ lbs. | 5.40 |

## TAPERED BRASS FINISH LEGS

- tubular construction
- fine sailin finish

Give o contemporory look to iV sets, rodios, record players, rables, choirs, bookcases, chests, etc. New heovy duty bracket for straight or flared style. All steel rust-resistont leas with locquered satin bross electroplate finish. Automotic self leveling, self locking glide. Sel of 4 legs-complete with hordwore.

| Stack No. | Ht. | Shpg. W. | Ne $\dagger$ |
| :---: | :---: | :---: | :---: |
| ML-87 | $6^{\prime \prime}$ | 21/4 lbs. | 5.85 |
| ML-88 | $11 *$ | 4 lbs . | 6.75 |
| ML-89 | $16^{\prime \prime}$ | $51 / 4 \mathrm{lbs}$. | 7.65 |
| ML-90 | 22" | 63/4 lbs. | 8.10 |
| ML-91 | 29* | $81 / 4 \mathrm{lbs}$. | 9.90 |

## WROUGHT IRON LEGS

Do it yourself. With these smartly styled 'hoirpin" ${ }^{2}$ legs you can build modern benches.

$\nabla$boakcases, pobles etc, mor mount them on your present tV eif or other furniture. Sturdily constructed of $1 /{ }^{\circ}$ " rod with welded steel top alreody drilled for insertion of screws. Sel of 4 legs.

| Stock No. | Ht. | Shpg. W中. |
| :---: | :---: | :---: |
| ML. 53 | 6 " | $31 / 2 \mathrm{lbs}$. |
| ML. 54 | 12" | 5 tbs. |
| ML. 55 | 17** | $61 / 2 \mathrm{Jbs}$. |
| ML. 56 | 24** | 8 lbs. |
| ML-57 | 29" | $91 / 2 \mathrm{lbs}$. |

## Net

2.25

| .25 |
| :--- |
| 2.89 |



- Lifetlme Sanding Accessaries
- Lifelime Janding and Cutring Tools
- Miraele Abrasive - harder than steel
- Makes sandpaper obsolete

The amozing discovery of brozing tungsten corbide grits to steel moker passible the finest sanding equipment ever known. Eoch grit becames a sonding edge thot performs perfectly and stays keen ond shorp indefinitely ... and mokes sandpoper obsolete. Far use on wood, plostic, plaster, wallboard. All comporition moterials. Ell minates forever the nuisonce of stopping to chonge torn or wamout sandpoper. Faster-cosier-soves time, effort, and money. Discs for use with oll standard power drills, sheets for use with oll stondord oscillating ond arbitol sonders. Ave. Shog. Wh. for discs and sheet-6 ozs.
(A) Handy-Sander: Mond-sanding lock kif. Contoins sanding block, one fine grit sheet, one coarse grlt sheet and felf pad. Cleans easily with solvent or wire brush. Shog. wf., I lb
MD-319
Extro sheets for Mondy. Sonder Pkg of 2-1 coorset 1 . Net 1.69 Shog. wf., 4 ozs
HD 445
Net 1.12
B) 5-in-1 Wheel: For use with power saws. Shopes-sawi - plouphs-runds-dodoes. Cuts and sands in one oper. otion. No bind, drog or kick bock, 80 grlit on one side. 36 grit on edge ond ather side. Never needs shorpening. Shog. wh. 1 lb

Wheel, $1 / 2^{"}$ Arbor with reducer to $1 / \%^{\text {N }}$
Not 5.21

| TYPE | Fine Grit (150) | Med Grit (80) | Coarse Grit (60) | Net ea. |
| :---: | :---: | :---: | :---: | :---: |
| D) 5" Sanding Disc <br> C) $5^{\circ} 8^{\circ} \times 9^{\prime \prime}$ Sheet | $\begin{aligned} & \mathrm{HO} .429 \\ & \mathrm{HO}-432 \end{aligned}$ | $\begin{aligned} & \text { HO-430 } \\ & \text { HD-433 } \end{aligned}$ | $\begin{aligned} & \text { HO-431 } \\ & \text { HD-434 } \end{aligned}$ | $\begin{array}{r} .87 \\ 1.12 \end{array}$ |

FoMa CUSTOM SHELF ACCESSORIES


- Designed for open-shelf Hi-Fi units
- Create your own sookshelf-Wall-Units-ete.
- Go as Migh and as Wide as you choose

Change blank walls into the most functional ond oftractive oreas in your home. Eosily installed-odlust shelf height in secands-create on inflite number of designs. Brockets ore odiustable of $l^{\prime \prime}$ intervols, locking nut tightens ogoinst strip. Exclusive "Link" strip standords, 12" long, con be interlacked to moke ony length stondard. Chonge and enlorge woll arrongements at ony fime. Slim stondords ore borely visible. Shelves have o oiry, flooling look. Solln chrome ond satin bross finish. Shelves not included.
Finish Stock No. Whelf shpo. We. Per Pair

SATAN
CMROME

|  | ML-19* | \% | \% ${ }^{\text {\% }}$ | ós |
| :---: | :---: | :---: | :---: | :---: |
| SATIN | ML. 199 | *" | 110 cr . | 1.15 |
| RHASS | ML. 200 | 10" | 12 az . | 1.23 |
|  | ML. 201 | 12" | 14 in , | 1.39 |

"I.Ink" sirfin winll standiartif, $12^{\text {n }}$ long, Interlock in any de-




New. odiustoble support for wall mogozine rock. Adiust to four positions, up to a $45^{\circ}$ ongle. Finish Silver-tane or Sotin Brass.

| Finish | Spock No. | Shelf Width | Shpg. Wi. | Net Per Pair |
| :---: | :---: | :---: | :---: | :---: |
| Silver. | ML-205 | $10^{\prime \prime}$ | 14 ar. | 2.18 |
| tone | ML-206 | 12** | 1 lb . | 2.33 |
| Solin- | ML-207 | $10^{\prime \prime}$ | 14 oz. | 2.33 |
| Brass | ML-208 | $12^{\prime \prime}$ | 1 ib . | 2.63 |

ROCK MAPLE Shelf Brackets

## - Unilimited Decoratar Arrangements

- Unyielding Cantilever Design

The eosiest-quickest way to add shelves to ony wall. 8rackets and standards are of solid moplesteel reinforced. WIII support hundreds of pounds. Unique gripping method assures slip-proof. firm hold and perfect alienment. Simple to build with no holes to drill-just serew into ploce. Extremely versotlle-build os high or os wide os you like. Perlect for record storoge-hi-fi instaltations-bookshelves-decorotor disploy. Sotin smooth-reody for finish.

| finish. <br> Stack No. | Description | Shpg. Wh. | Net Per Pair |
| :---: | :---: | :---: | :---: |
| ML. 141 | $8^{\prime \prime}$ brockel | 3/4 16. | . 54 |
| ML-142 | $8^{\prime \prime}$ brockel | 1/4 lb. | . 63 |
| ML-143 | 10" brackel | 1 lb . | . 72 |
| ML-144 | 12" brocket | $11 / 2 \mathrm{lbs}$. | . 81 |
| ML- 145 | 14* bracket | 2 lbs. | 1.00 |
| ML-146 | $131 / 2$ " Stendord | 2 lbs. | .81 |
| ML-147 | 6" Siondord | 8 oz . | . 54 |



## NEW! LEVEL-ALL

Universal Surface leveler

Level onyihing - onywhere - onylimel Shelves record changers-shop iools-comeros-stoves-refrigerotors building prolects - cobinets - troilers - and mony more items. Simply center the bubble in the ring. The "Level-All"t moy be mounted on o larger base, or trued up board, for spon. ning lorge oreos. A professional tool-a home creflimen ning lorge oreos. A profe
necessity. Shog. Wh.. 4 ofs.
HD- 667

## Hobbyists- Students- Experimenters



In no sense of the word o loy or godget. This mochine is o scientific instrument copoble of producing 75,000 volts -mokes sparks up 102 tong-yet it is obsolutely sole becouse the current is infinitesimal. The science teocher -science lover-or hobbyit con perform experiments to astound sfudents-friends-fomily. Mokes smoke disop. peor-dely grovity-lurns propeilers of o distonce-fransforms alomic onergy into light-moket ortificiol lighining -smoshes otoms-demanstrotes ionic spoce ship driveond mony orher experiments. Constructed of the finest moteriols. Will do esoctly-for instruction purposeswhat generotors thot cost 3 to 10 times more will do. The perfect device to teach the secrets of otomic physics and eloctricity. Will hold on oudience spellbound os it performs trick offer omozing trick. Includes on experiment hit and illustroted experiment monuol. Monvol er. ploins the "how" and "why". You will invent mony now experiments of your own. A fine reseorch tool thot will give reors of beneficiol service to the institution or Individual who owns on $110 \mathrm{~V}, \mathrm{AC}$ or DC. P.171 Assembled-Shpe. wl.. 4 tbs. Net 11.95


Full $180^{\circ}$ profractor scale, finest oifcrofi oluminum with block salin finish. Engroved, whife filled numbers ond morkings ore mochine colibroted $10 \pm .0005$ of on inchl Folds like o jocknife . . slips into drower or brlefcose. eliminotes clutter of T-square, ruler, protroctor, friongles. Clomps to drawing board or sketch pod. Loyout chossis. diogroms. skefches, design detoil, survers etc. F-287 Draftette with $3^{N}$ scole, shpg. wt., 1 Ib . List 4.95 Net 3.95 F. 289 Droftefte with 3 a $5^{\prime \prime}$ scole, oltoched to $11^{\prime \prime} \times 17^{\prime \prime}$
drowing boord. Shps. wl., 3 lbs. drawing boord. Shpg. wh., 3 lbs.
Iist 6.50 ............................................................. 5.20 F-401 Droftelle with $4 \times 6^{\prime \prime}$ scote. $\mathrm{list}_{3} 6.95$....Net 5.56 F-402 $4 \times 6^{\prime \prime}$ Droffette mounted on $11^{\prime \prime}$. $17^{\prime \prime}$ drewing boord. list 8.50 Net 6.80

HARD MAPLE PANTOGRAPH

## - enlarges


diagrams
diagrams
tuctng anods etc. Mast rapid, accurate means of re bors ore $21 \%$ long and $3 / 4$ wide. Locquered highly finished bors ore $21{ }^{\prime \prime}$ long and $3 / 4$ "wide. Heavy melol stondard, with bearing timinotes all friction. Chrome ploted hard-ware-rotio thumb screws ond num. Complefe with leod. occessories and detailed instructions. Shpg. wf. 2 lbs
F-15s
Page 286
Not 3.75

NEW JET-E-RASE ELECTRIC ERASING MACHINE

- PORTABLE - MOTOR DRIVENI
- tIME SAVING - LIGHT WEIGHT - CONVENIENTI
- FINGER TIP CONTROLI
- 4 ERASERS - 4 COLLETS - 2 BRUSHESI

The new. enclusive. Lofoyette bottery operoted erosing mochine is the most modern eroser ovoiloble. Sleek and streomlined os o rocket-eroses fost os o iet. The entire unif hos been designed for convenience-eose and speed in erosing. Botrery operation does oway with bulky M.C. molorstroiling line cords-donger of shock. Sofe enough for children to use. Enfire unit-Including bottery-weighs onty 4 az. Fits the hond as noturolly os otor ensures quit-smooth rumning-vibrotion free operotion Permanently motor ensures quist-smooit rutning-vibrotion free operolion. Permanenily lubrtcoted, precision bearings ossure lang, trouble free life. Inctudes four proser coils. One soft-1wo medium hord-one grilly-io cover oll erosing problems. Two brushes-one soft-one stiff-for slean up, and fowr collets
that accept both the eraser cores and brushes. Easily replaseoble boltery that accept both the eroser cores and brushes. Easily replaseoble bottery Ir o No. 1 or "C" cett. Supplied with boltery. Shpg. wi., $1 / 2$ Ib. F-4 16
F-424 Kif of iwo eoch, eroser and brushes.
Net 1.49

## SUPER MICRO-MOTORS

- HAE THE WEIGHT-TWICE THE POWERI HIGHER SPEED-LOWER DRAPNI - PERMANENTLY LUBRICATEDI DOUBEE PERMANENT FERRITE MAGNETSI Eapertly designed, miniofure, D.C. permonent mognet motors. Ruggedized con struction for Industrial vie. Highest power and speed to waight rotio of ony minioture motor mokes these o "noturol" for models ond remote contro opolications. Ferrite mognels prectude possibility of demognetizofion and commutator in precise position, Utilizes phosohor-bronze brushes ond bross sleere bearings May beshounied by meons of motor mount supplied or by means of topped hole in motor cose Ave. Shpg w1. 4 or Complete with leods.


## Steal

| Stert Ne. | Vef. <br>  | Drein Ma. | WPM | M. | W. |  | Bhaft Div. | W\%. | NET <br> EA. | $\text { OF }{ }^{O}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| F.403 | 1.5.4.5 | 200.300 | \$000.6000 | 1 | 1\%" | 11/3' | 7/32" | 1\%02. | . 69 | 62 |
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- extremely efficient
- VOLTAGE RANGE 1.5 to GV.D.C.
 Enceptlonally versotile minioture D. motor. Operating voltoge from 1.5 to 0 Will operate on toly low current droin. below rated requirements. Boll bearing afford moxtmum efficiency. Transporent plostic brush housing-removoble brushes - iubular form. Overoll size $21 / 4$ " 1 "D. Shoft $1 / 12^{\prime \prime}$. Weight $21 / 4$ Recommended for industrial and loboro tory development work. Used in remote control devices, models, disploys, elc.
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Registers 0 to 9999. Highly polished chromium plated bross cose. Attoched finger. ring ond compoct shope for comforl in holding. Plunger operoled for smooth, easy oc. tion. large, cleorly reod num. erols. Knurled resel hnob sefs register to zero in one furn. Precision acsurocy for lob, kohool and industriat users. Involuoble for inventory con. etc. Smoll shecking-trofic, Ir $1.5 / 16^{\circ} \times 13 \%{ }^{\circ}$ opermis. concealed onerolion . permits Wt. $1 / 2$ 16. perolion. Shpg. -. 48

## ILLUMINATED MAGNIFIER

- 5X MAGNIFICATION -

2" FIELDI

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A fine, fized-focus Illuminated mognifier-magnifies work
 limired usage in industry-shop-hobbies. for checking timited usoge in indusiry-shop-hobbies. for checking tools and dies-costings-forgings-welds-fic. Inspection of meter movements-fine soldering electronic repoirs. Magnified area easily accessible through cut out invalu. oble in hobties such os stomp or coin collecting, photog. rophy, entymology - minerology - elc. Encellent mop reoder. Completely portoble- Wes wo No. 2 cells fo power. Weight $3 / 4$ Ibs., length $81 / 2^{\prime \prime}$ overoll. Shpg. wi. $11 / 2 \mathrm{lbs}$
F- 193
Net 2.95
-

## SUPER DIAL-A-MATIC ADDING MACHINE



- ADDS UP TO 999,999 ACCURATELYI
- SUBTRACTS AND MULTIPLIES TOOI
- aUTomatic clearing ear I

Nowest "Diol-A.Molic" odding machine. Great for doily colculolion smoll businesses homework. etc. Automotic cleoring bar clears all dials instant. ly. Polyethylene, skidproof bose for convenient one hond operotion. All moving parts of DuPont Nylon. With dioling sfylus ond instructions. Shpe. wt., 1 lb . F-274

Not 2.70

S-Plece Dial-A-Merict Simitor to Super Diol-A-Motic 3-Plece Diol-A-Metict Simitor to Super Diol-A.Motic
but odds to 99,999 . Does not hove outomotic clearing. but odds to 99,999 . Does not hove oufomotic clearing
Fost.occurote-fits pocket or purse. Shpg. wf.. $1 / 3 \mathrm{lb}$.
F-189
Lots of 3 ec. 1.35

Net 2.75



 ans of lopped hole in motor cose. Ave. Shpe. wi., 4or. Complete with


## POPULAR LOW COST SPECIALTIES

Read-or write-or watch television while lying down - with all the vision case of silting upright, Ingenious, optically correct, prismatic readers give you "right-angle" vision to any object you care to view. Even bedridden patienis can reod - while lying flat - for hours without tiring. The prismatic system - working like a pair of tiny periscopes - angles your vision but odds no correction or aberration. Can even be used in conjunction with ordinory glasses. The light gothering power of the prisms octually gives a brighter image than normal. No fitting prablems - prism plane is fully adjustable lacks in of angle of your choosing. The crown glass prisms are precisely aligned and ground ta the closest tolerance. Specially suited for the ovid reader-invalid-traveler. Shipg. Wt., 6 azs. F-439?

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"READ-EASE"

## $30 x, 60 \mathrm{~mm}$ SPOTTING SCOPE

- Binocular Type Complete With Focus Leather Case


A prismatic telescope using the same fine features as expensive binoculars! Field of view is 85 feet at 1000 yds.! llance due to great 60 mm objective lens. Exceptionally liance due to great 60 mm objective lens. Exceptionally tripod! The perfect companion for shooting - hunting tripod! The perfect companion for shooting - hunting -
viewing - naturalists - and hobbyists. Comes equipped viewing - naturalists - and hobbyists. Comes equipped with $111 / 2^{\prime \prime}$ tripod and mount and zlppered leather carry ing case for both scope and tripod. Shpg. wt., $21 / 2$ lbs

## MINIATURE MUSIC

 BOX MOVEMENTS- precision moving parts - more than 3-minutes PLAYING TIME
- RUGGEDLY BULT
- beautiful tone

These minialure music box movements have on infinite number of opplicotions for the ingenious home bullder. Con be mounted in cigaretfe boxes, perfume cases, etc. The unit is so delicotely balonced thot o sllght touch on the flywheel is sufficient to start or stop the movement. Hos full 18 note scole. Precision-built drum and moving ports ore made to last o life.lime. Components are mounted on o die-cost chassls. Comple:e with threaded mpunting holes and winding koy- Size $1 / 4 \times 2 \% \times 1 / /^{\prime \prime}$ Shpg. wi., 6 oz.

## M5-578 ............. AULD LANG SYNE MS-579 ........... HAPPY BIRTHDAY

 MS-580 ...........HERE COMES THE BRIDE BLUE DANUBE WALTZNet 1.88 MS-580 .........HERE COMES THE 8RIDE ........ Net 1.88

ALCOMAX MAGNETS


## POWER MAGNET

- LIFTS 50 TIMES ITS OWN WEIGHT Mode of Aleomox-a materiol with 12 dimes the mas netic energy of tungsten steel. Designed for mast officient perfarmonce/weight rotio - will lift up to so Hmes its own weight. Horsesthoe shope with ploted keeper. Ideol tor such opplicotions os mapnetic clutch, liffing, work
 F. 55


## POCKET MAGNET

An Alnico mognet useful for inspection of hardwore to cort sleel from bross, us a retriever of smoll ports. Highly miclent. Size 1 "H a $11 / 0^{\prime \prime} 5 / 16^{\circ} \mathrm{D}$. $1 / 6^{\prime \prime}$ between poles. 5 hpg wi., 3 oz. With ploted teeper.

## LABORATORY SET

This set has been speciolly designed for schools, loboratories, and technicions, for testing and demonstrating the mognelic properties of permonent mognets. Fine hordwood case contains o pair of bar mognels $2^{\prime \prime} \times 1 / 2^{\prime \prime}$ diom. . - horsestoe magnet 13 " high $\times 1-5 / 16^{*} \times 1 / 6^{" d}$ deep with $5 / 16^{\prime \prime}$ spacing belween poles, and o bridge mosnet $7 / 16^{\prime \prime}$ high $x 28 / 32^{\prime \prime} \times 5 / 16^{\prime \prime}$ deep with $1 / 4^{\prime \prime}$ spoce between poles. 5 hpg . Wi.. $11 / 2$ los. Nel 3.45 ECCOBOND 26 - sוcks ANYTHING TO ANYTHING FOREVERI New epoxy resin patch kit -
handiest banding agent ever for the lab bench or production line. Many industrial applica. tions - repalis tools, hardware - furnityre - boots. A resilien epoxy polymer - features pemanent adhesion o metals, plastics, paper, ceramics, etc. Patches and bonds anythingl Cures in four hours of room temperafure - in minutes at 150 F . Chemically inert - physically extremely strong. Forms a permanent part of the repoirsd item. Can be sanded or worked - takes paint readily. White calor. Mixes easily - use only os much os you need. Shpg. wf., 8 azs

## ELECTRIC MANICURE SET <br> 

- FAST - EFFICIENT - PROFESSIONAL RESULTS Trims and shapes nails quickly and easily. Removes callouses - cuticle - dry skin fast and efficiently. Self contained, battery operated mator. The Electric Manicure Set has tiny emery wheels, silicon carbon wheels, chamals, cotton buffer, fine brush - all slip easily
into drive unit. Light weight - shaped to hold like into drive unit. Light weight - shaped to hold lik
a pencil - easier to use than ordinary manicure im a pencil - easier to use than ordinary manicure im
plements. Operates on one 1.5 valt fashlight battery Complete with accessories. Shpg, wh., 8 ozs. F-446
Battery for above, $=1$ cell, Shpg. w1., 3 cz......Net 1.69 BA. 156


## NEW! FLASH-DRIVER KIT



New design for greater turning power-shadow free operation. Just the thing for those dark corners-emer gency work, home, shap, or outomobile. Light and screw driver in one-like having a third hand. 2 stand ard screwdriver blades and 2 Phillips type blades. Pasitive action chuck takes all 4 blades. Flash-handle uses 2 Il cells. With plastic all up pauch. Less bat teries. Shpg. wt., 12 ozs.
MD-665.
Net 1.19 Botfery f
$8 A-156$

Nep .13

## NEW! <br> 13 Pc. COMBO. KIT



- oesigned for radio/t.v. service

All the mast papular service taols in ane handy, roll. up kit. Man sized $41 /{ }^{\prime \prime}$, chuck type amberoid handle with built-in neon tester. Six hardened tempered nut
drivers, $7 / 16^{\prime \prime}-11 / 32^{\prime \prime}-3 / 0^{\prime \prime}-5 / 10^{\prime \prime}-1 / 4^{\prime \prime}-3 / 16^{\prime \prime}$. Three drivers, $7 / 16^{\prime \prime}-11 / 32^{\prime \prime}-3 / /^{\prime \prime}-5 / 10^{\prime \prime}-1 / 4^{\prime \prime}-3 / 16^{\prime \prime}$. Three
serew driver blades-1wa standard and ane Philips serew driver blades-1wa standard and ane Philips
type. $41 / 2^{m}$ diaganals with insulated handles and stripper notch. $51 / 3^{\text {* }}$ long noise pliers with insulated handles ond stripper notch. Lightweight pencil-type 30 watt soldering iron. All in a tough, plastic, roll-up kit. Shpg. wt., 2 lbs.
HD. 664
Nel 5.39


The Abney topagraphic level enables the user to determine ground elevation-measures degrees of slape or inclination-run a level line-etc. Permits preliminary surveying with little or na experience. Fine prismatie system. Are scale is divided into 60 degrees bath sides of zera. Vernier seale reads 1 to 10 minutes. Are swings from 0 to 90 degrees. Particularly useful in laying out drains-retaining walls and fences-driveways-fields-etc. includes leather cose and strap. Shpg. wt., 3 lbs.

## INDOOR-OUTDOOR THERMOMETER

## ell inside and outside temperature

 instonity - from the comfort of your room. Inside location - ideal for quick casy reading. Duat tubes single scale for nstant visual comporison. Plastic cose ith modern fopered lines. $8^{\prime \prime} \mathrm{a}^{\prime \prime} \mathrm{g}^{\circ}$ $48^{\prime \prime}$ lang copper copillary tube and bulb. Large scale numeral for ease of reoding. No moving parts to become worn, Shpo. Wi. i parls to become f-321Net 2.29


MAXIMUM-MINIMUM YHERMOMEYER


For weather enthusiasts-gordeners-formers, efc. Gives three readings at o glance - maximum, minimum and present lemperafures. Self.reglstering - no Knobs -
magnels - or push buttons needed for reset. Magnifying lens cose for ease of reading. Maintoins outomatic check on temperoture voriations. Makes you the local weather expert. Shpg. wt., 1 ib.
F-372 $\qquad$
ROAST MEAT
THERMOMETER


Take the guesswork out of raosting. Rugged sensing prabe plus meter movement tells you the correct tem. perature for roasting meat. The meter scale $\&$ divided into six sections marked Beef Rare, Tender Ham, Beef Medium, Beef Well-done, Lamb-Fresh Pork, and Paul. try. Non-breakable plastic window affords easy read ing. Sh
F.422

## RAIN GAUGE

Farmers, gardeners, weather hobbyists. All need this sturdy, molded plastic rain gauge, precision manufactured to give occurote mits recarding of minute Quantities of pre mits recarding of minure Quantities of precipitarian. Exclusive easily-aperared Cumu lative Rainfall Indicator. The gouge hos large numerals an on easy-ta-read scale graduated up to $51 / z$ inehes. Scoles in black back for easy readabllity. With camplete
 back for easy readability. With complete insuructions far maunting and use, ta abtain weather-station aceuracy io $1 / 10$ th of an inch. Overall length $10 \mathrm{y} / \mathrm{s}^{\circ}$ width

Net 1.59



## AIR CONDITIONER <br> \section*{FILTER}

- FOR ANY ROOM AIR CONDITIONER - Made OF B.F. GOODRICH "TEXLITE" - PERMANENT - WASHABLE
- Free llow desien increases elficiency. Fomous Goodrich Texlite" -thousands of rubberized busties-give opttmum oir flow ond moximum filtrotion. Rigid-needs no frome. Retoins shope under pressure-will not lloke. Trims to fit ony room air conditioner. Shpg. wh., $1 / 4 \mathrm{lb}$. ML- 152 FREE FLOW FILTER

Net ea. in lots of 3 ea.
Furnace Filter: One size fits oll furnoces. No frome re. quired first cut ta size. $20^{\circ \prime} \times 25^{\circ \circ}$. full one inch thick Reasonable - Just wash, rinse and use again. Mildew proof - retains na water, Famous Goodrich "Te slite" traps more dust, dirt, lint and soot than other filters Shpg. Wi., 1 lb.

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(afal/ette's IMPORTED SLIDE RULES

LIST 30.00 15.95 - 25 Scales with 8 Log Log Scales - $40^{\prime \prime}$ Log Log Dec. Fractlons Scale Extonded Ronge Avoids "Going Off Scale" ExtraP Scale Simplifies Computations

## This brand now $10^{-1}$ log log duploz trio slide rulo is buitt for the most onacting demands

 100 scotes $-0^{-1}$ iog ond reselting of the slide is eliminated by the The noed for the froublesome and-for ond reselting of the slide is aliminated by the oxtemsions of the C and D scaler. Other scole arrangoments olso ollow easier colculolion of problems involving the volue of trigonomelric functions. The iwin set of Log Log seales in four sections each runs from 1.001 to 100,000 ond .999 to 00001 , thereby enlarging the scale by one scale tength -och compared with ordinary $\log \log$ slide rules. Eatro fealures include the ${ }^{p}$ scole which enables easy somputotions af vector problems invalving iwo sides of a right triangle. Scales include $1101,1102,1103, \mathrm{DF}, \mathrm{CF}, \mathrm{ClF}, \mathrm{CI}, \mathrm{C}, \mathrm{D}, 113,112$, and 111 , 1100 , L, K, A, B, S, ST, T, C, D, DI, P, and 110 . Complete with instruction book and soddle leather cose. Overoll longth is $14^{2 \prime}$. Shpg. wt., $11 / 2 \mathrm{lbs}$. F-428 LIST 30.00Net 15.95

## $10^{\prime \prime}$ LOG LOG DUPLEX TRIG SLIDE RULE

$115 T 25.00$ 10.45
F.341


F-340
 non-hygrascopic bamboo. All scales are machine engraved an white plossic in permonently occurate colibrations. Adiusting serews permit varying the rension on the slide. 21 scoles in all including the more frequently used $C, D$ and $C I$ scoles on both sides of the rule. Evaluates trigonometric,
algebroic and esponential problems. 110 and 1100 scales refer lo scole. All other scales coordinate and refer to $D$ scale. Scoles ore 1 , ibl, DF, CF, CIF, C1, C, D, $113,112,110,1100$, A, B, K, C1, C, D, S, ST and T. Scole chorocteristics permit muttiplication, division, proportian, inverse proportion, reciprocats, celongents, quares, square roots, cubes, cube powert ond roots of numbers less thon l, powers and roots of numbers oreoter than 1, logorithms to bose ".". The most often used slide rule in oll basic fields science, ongineering, pioduction ond economics. Shpg, wasic $11 / 2$ lbs science, engineering, poduction ond economics.
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## 5" POCKET SLIDE RULE

5" Perket silde Rule: Conveniont pocket slized stide rule of speciolly selected and treoted bamboo. Will not warp, shrink or tengthen under verying efmospheric condifians. A, B, CI, C, D ond $K$ scoles engroved on white plostic surfoce. Reverse side of slide hos stanciord $\$, I$ and $T$ scoles. The upper, beveled dge of the rule is groduoted in $\mathrm{m} / \mathrm{m}$ to 13 cm . Other edge is divided inte 5 inches by $32 n d s$. Oniy $5-13 / 16^{\prime \prime}$ long over off. Corried easily in any pocket. Shpg. wi., 8 ot.
F-340 LIST 6.00
Net 2.89
SLI TRIGONOMETRIC
SLIDE
$8^{\prime \prime}$ trig slide rule of lominated, selected bomboa. Foce of white plastic with enproved, permanently occurote colibro. fions. Exceptionat dimensional stabillity under oll otmos. pheric conditions. Solin-finished focing provides o high readobility, virtually glarefree face. Scales are A. B, CI, $C, D$, and $K$ on foce - 5,1 , and $T$ on reverse of silde. Tablo of formula and avivalents is printed on metol bock. C scole also has convenient conversion marks for changing degrees to redians, and for colculations involv. ing areas of circles. Shop. wi., 8 or. F-381 $8^{\prime \prime}$ Trig Slide Rule ........................................... 1.95


4" CIRCULAR SLIDE RULE

- MON-MTGRDSCDPIC $1 / 8$ " PLASTIC - ENDLESS SCALES - 12 SCALES

Versatile, cempect, circular slide rule, as wosy to reod os - 10 inch stralght rule. Speciot $1 /$ " "hick plostic will nal $^{\text {s }}$ shrink or eapond under vorying ellimatic conditions. 12 seporate scales rolve problems in multiplication
division...proportion. division....proportion ....squores ... cubes rools. sines . Cotines. . tongents. Also hes callbrated marks for converting degrees to rodions and for colculations involving oreas af circles. Smooth, posi. tive oction on all sceles ond cursor. Complate with leatherette cose. Shpg Wr., 4 oz.
F-382 Circulor Slide Rule
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Sturdy plastic pomplote contoining all commonly used mothematicel symbols: plus and minus signs, roofs, brock. ets. integrels, summation, infinity. the complete small letters of the Greet olphabet including etc.. plus some of the Greel capital letters used in mathomoticel formulae, mony symbols present in several sises. Precision milled for smoothness of cul, uses .030 mathematical qualin plastic. Site $61 / s^{\prime \prime}, 71 / z^{\prime \prime}$. Shps. wh., 4 oz .


The GENIG SLIDE RULE
silde rulo dosign to achiove the graduations and accurocy of o 66 inch slide iule. This rule may be used to give onswers with up to 5 digit accuracy, ond quickly solve problems involving multiplication, division, roots, powers, logorithms, proportions, and percentoges. Cylindrical con. struction leofures all-metel construction with plastic coated spiral scoles. $11 / "^{\prime \prime}$ diameter ond $10^{\prime \prime}$ long, the rute col. lopses to $6^{\circ}$. small enough to be cosily corried in o porkef. Almost indestructible, connot worp. Shge. wt..


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- Contor whal A№thered
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A Wee of imperted alctel pleted bras Instrumenti priced tar beiow the usul price for this quellity. Contain We sell-centering composs, one les linuchte joint Fil dividel, ppuil, pen parts and divider $4 / \mathrm{m}^{-}$center whee edjuitment with inferchongestble needie paimpl; upinge
 whel edjugtmom and Interchengeable needle point; two 3\%" rullo pent: artre handio for pen and pacill parts: adluntmont tool; loed cem and loeds; and ware parts tit. all In velvet llaned sesp cloolng cenc. Smpo. Wi. $1 / 2$ lbe. -4

UTILITY DRAFTING SET

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Made in Germany of hard ralled, nickel plat ed bross. All instruments ore nested in o flited relvat lined cose. Con $34 / 4$ " bow instrument -one a divider, ane - pencil and one o pen
o pencll ond one o pen
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$8^{\prime \prime}$ PROPORTIONAL DIVIDER Exiremely accurote finel) - IMPORTED FROM
mode proportional dividers. Bosic equipment for trofts. GERMANY men architests men -architerts - one neers - sudents. Reploce. able steel points - in hard, lealher covered, felt fined ase. Used for proportional coduclions and enlargements, copying drowings in enlasged or reduced scols, dividing lines or circles Into equal ports, quick solving of dif. ficull measuring problems, finding distonces on maps without scoles, efc. Fiol form. replaceoble steal points. Pres. sure setting. Gradvared for lines from $1 / /^{\prime \prime}$ to $10^{\prime \prime}$ Circles from $\mathrm{on}^{\prime \prime}$ to $10^{\prime \prime}$. Ex. cellent, oxcurate ufllity mod. il. Shpg. wi. 8 ort.
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Professional GIANT BOW


- 6" Sise with Center Wheel Adjustment
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Eoch of these extremoly precise optical instrumonts hos cooted lons - clomped in (not iust glued) prisms lightweight alloy oll-metal body - wealherproof, feor proof outer covering. Mode to our own rigld specifica tions. Lofoyelte's fomous money-bock guorantee opplies as olwoysl focus: Elther central locys (C.F.) by means of a single wheet and one odjustable evepiece, or individual focus (I.F.) wherein both eye pleces ore seporately odiusioble. Power: Is number of times imoge is magnifiod. For exomple, $7 \times(7$ power) means the object will oppear 7 times lareer (or closer). Second number used (1.e. " 50 " in $7 \times 50$ ) is the diometer, in milli melers, of the oblective len
Cooted lenses - tend to reduce reflection and poss up to 50 more light than uncoated lanses. "W.A. = Wide Angle. $10.1^{\circ}$ of 1000 yords. \& L.W. Extro ligh weight.
STOCYMO TYPE SHPG. NET
STOCK-NO. TYPE WT., EACH $\begin{array}{llll}\text { F-183 } & 7 \times 35 \text { C.F. } & 3 \text { lbs. } & 19.95 \\ \text { F-184. } & 7 \times 35 \text { C.F.W.A. } & 31 / 2 \text { ibs. } & 29.50\end{array}$ $\begin{array}{llll}\text { F-184 } & 7 \times 35 \text { C.F.W.A. } & 31 / 2 \mathrm{lbs} . & 29.50 \\ \text { F-164 } & 7 \times 50 \text { C.F. } & 31 / 2 \mathrm{lbs} . & 22.50\end{array}$ F-185 $20 \times 50 \mathrm{C}$. F. Ton to Above. 28.95


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 COMPASS- Jeweled Movemen
- Brass

Glmbal

- $2^{\circ}$ Graduations


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mporiod compass for wil or molor boafs. Entirely non mognefic and corrosion resistont. Finely mode of glass bross- and locquered ook. Direct-reading $300^{\circ}$ diol. Colibroted every $2^{\circ}$. All cordinal poinis ofe oversized Shorp, block morkings on white bockground. Composs is cosily removed from gimbol for vefekeeping. Moy be mounted os o permonent binnacle or used os o porroble unit. Overall dimensions ore $4 \%{ }^{\prime \prime} \times 4 \frac{1}{4}$ " $31 / /^{\prime \prime}$ Composs is 74 mm . Shpe. $w f ., 11 / \mathrm{s}$ tbs.
F. 386

Net 3.29

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Mounis anywhere on cors-boots-trucks-fractors-motor creles. Non-glore, universol mounting brockel. Mos cosily compensoted compass ovailoble. Just o twist of the bottom or top knob. Extremely occurote. Constructed to withstand all driving shocks. Impertont to the dolly driver. Invaluable for bools and rroctors. Large viewing wIndow ond figures for cose of reoding. Includes mounting occessories and instructions. llluminated madel in cludes both 6 and 12 volt bulbs. Shpg. Wi. I it.
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Top quality, drop forged steel, one piece scout oze. Perfectly bolonced. Re-curved. shock absorbing handle. Alr-cushioned rubber grip. Fully polished head and shaft. 24 oz. Weight, $131 / 3^{\prime \prime}$ overall. With noilpuller. Fine steel can be shorpened to o "shoving

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- New Electronic "Fish-Killer"!
- Ends "Misses" Forever!
- No Nibble Too Light To Notice!
- Fresh Or Salt Water-Fits All Rods

The Angler's dreom moteriolizedl This new electronic fishing oid turns every "nibble" into a "catch." Many good "biles" have been missed due to relionce on mere sixth sense. The "ELECTRO-STRIKEOMETER" (0), product of extensive reseorch, gives even o rank novice the "feel" of the expert fishermon. The meter will indicote even the finiest nibble by the most wary "boll-steoters." The "ELECTRO.STRIKEOMETER" R oscurotoly indicotes ond advises you when ther're nibbling, when they've bltten, and when to "set" your hookt the ontire unlt weigh only 3 oz . and con be reodity fized to ony fresh or soll water rod. Can even be used with o "drop line"I Does not interfere with your line while casting or retrieving. Adiustoble for varying degreas of sensifivity. Powered by on easily reploced, liny 1.5 V dry cell. Housed in a streomlined, grey plostic body. Wide view, eosy to read, moter foce. Con be used under ony weother conditions. Supplied with o 1.5 V bottery, skin-tight sltp-on cover for solf woter use; rod mount ond instructions. Overoll iize $51 / 2^{\prime \prime} \times 112^{\prime \prime} \times 11 / 4^{\prime \prime}$. Shpg. wt., $41 / 2 \mathrm{oz}$.
FT. 536
Reolocament batiery for above
8A-153"N" cell.
.Net 6.29
Net . OB
LENSATIC POCKET COMPASS
for "Cross Couniry Navigation."
For compers-hikers-hunters -tourists. Some type os those used exclusively by the ormed forces to determino one's position ln unknown couniry. Jeweled beoring metol scole with cardina Twin sale 0 to 84 and 0 to 360. Bezel rolotes $360^{\circ}$ with $3^{\circ}$ click stops for ease In computing. "Notch and hoirline" sighting for occurhoirlmo aximuth reodings occur ote aximuth reodings. Lons allows viewing of composs heading while slghting for aximuth. Iuminous reference lines on $2^{\prime \prime}$ diometer gloss foce plote. Block anodized oluminum cose with bross fittings. Folds compoctly to pocket watch size. Complete with drawstring pouch and instructions. Shpg. wf. . or or
F-493
Nel 2.25

## MAP MEASURER \& COMPASS



Not o godget-but areol in strument.

- Measures distonces on ony she mop.
- Meosures curved or Irregulor shopes.
Exclusive at Lafayotiel a map measurer with built-in compsss! For the motorist - comper - hunter boating enthusiast. An indispenreble unit of equipment, Just trece along route on map and multiply milos-per inch factor by reading on dial. Also readi directly in inches up to $39^{\circ}$. Ruilt-in magnetic compars has cardinal ond second ary points-fult 360 markings in Complete with leather sheath Shpg. Wt. 8 OL . F-47 LI5T..... 2.75 ....Not 1.59
FOLDING CAMPERS SAW


## ancornone

Hondy, compoet folding saw. Wine-inch spring sleel blode folds bock into polished, hordwood hondle. Speciol smop lock keep's blode in sowing position. Ideal componion for compers, hunters, or os o gordener's pruning sow. Special shope ond "set" of teeth mokes sowing bronches o reol "isnop." Overoll size only $10 \%$ " $2^{\prime \prime}, 1 / 4 "$. Shpg. wi. . 8 oz .
HD-482


MINIATURE IMPROVED HOIST

SMALL ENOUGH TO EIT YOUR POCKETI
PRE LUbRICATEO for hfei LIF1 1000 TO 2000 POUNOS!

The only truly miniofure hoist avoilable. Indispensoble in industrial plonts and workshops. Perfoct for hunters booters-airplone awners-motorists Great strength ond ing booters-oirplone owners-motorists. Greot strength and liny size permirs hundreds of uses - con be o.reol hite sover in an emergency. Mode of high grode oluminum with steel oxlas. Prelubricoted for life. Two lifting slings - one on top and one al bottom - with heovy, welded steel rings: Nylan coble supplied tests of 550 lbs . per strand. "Midget hoist comes with 70 f . of Nylon coble, hos o 5 to 1 rotio - 1000 lb . Test - and weighs only 13 oz. "Tiny" hoist hos 100 t . of Nrlon coble, 7 to 1 rotio 2000 lbs. tes - ond weighs only 15 oz . Does all your llfting sofely and coslly.
MD-330-" Midget" shpe. wt. 11/1 tbs. ........Net 8.33 MD-331-"Viny" shpo. w1. $2 \mathrm{lbs} . . . . . . . . . . . . . . . . . . N e t ~ 10.83$ BURGESS BOAT-LITE KIT


## - Eosy To Install-No Extras To Buy

 - Meets U.S.C. G. Requirements - For All Closs "A" And Class "1" Boaps Running Light And Stern LlghtNow Burgess Bool-lite kit-ful of footures never before offered to small boat owners. Contoins every thing needed to moet U. S. Coast Guard requirements for lights on smoll boots. New combinotion bow light with optically periect Red-Green fresnel lens. Projocts light over one mile. Correctly shielded. Made of speciol corrosionresistont olumlnum olloy. New stern light-flog sfoff hos unique Jug-in feoture. Quick-easy removal for sofe oping. No noils, screwe or clomps-iust alugs in. Cor osion-resistont oluminum ollor with lomp vislble for 2 miles. Kif includes heavy-duty, o volt, seoled-in-steel bot tery, all necessary hardware, mounting brockets, wire weather-proof switch and instructions. Shpg. Wh., 7 lbs.

# WE INVITE COMPARISON! WE DEFY COMPEITION!!! <br> ALL MERCHANDISE SOLD ON A MONEY BACK GUARANTEE-YOU BE THE JUDGE. 



| ELECTRIC SLIDE VIEWER (A) <br> - For oll size slldes-from 35 mm to $21 / 4 \times 2 \%$. <br> Mokes slide viewing a pleasural Versatile built in odoptor centers oll stides for correct mognificotion. Pransparencies ore britHianily llluminoted ond enlarged through a fine optically ground and polished lens. Electrically oper oted-equipped with bulb. socket, on-off switch, 6 HI . cord and plug. All steel construction-finished in platinum groy enomol. Shps. wi. 2 lbs. <br> F-26 <br> Not 3.75 |
| :---: |
| TILT-TOP (E) <br> Precision mode-- all brass-hearily chrome plated. All-angle "lilt-Tap" fits German and American Tripods and Cameras. Positive lacking action at every possible angle. Inexpensive - indispensable accessory. Shpe. wi. 8 ozs. <br> F. 160 <br> Nef 1.39 |

LOW COST TIIPOD (B)

- Regular $\$ 6.95$ Value
- Lightwaight - Low Cast - Sturdyl Five section sturdy bross tripod. Extends to $45^{\prime \prime}$ - telescopes down to $121 / 2^{\prime \prime}$. Woighs a scont 16 ox. Chromo trimmed hood has tension adiust screws for eoch log. Fits all tripod sockets. Posllive lock. Ign acitan. A "muss" ta toke the "liggle" out of those special shots. Shpg. Wt. 2 lbs F-214


## PANHEAD (F)

- Pan Till with A single Motiont Sturdy brass construetion - high pollshed chrome finish. Camera refaining screw rototes - mokes furning camara unneces. sory. Woighs only $4 \mathbf{0 z}$. Mandlo is dotachoble for compoctness. Twist of hando locks both pan and tilt. Pans $260^{\circ}$ tllis approx. $145^{\circ}$ - Sh $^{215}$....................................... 1.66


## "35" CLIP-ON EXPOSURE METER



- Fits camera accessory shae - ASA scale 610 3200
- Measures reflected and incident light

Exceptianally convenient oxposure meter. Clips right on camera-quick eosy reading. Gives beller, mare occurotely exposod piefures with a minimum of elfort. Speeds $1 / 1000$ to 30 sec. Lens operture $\mathrm{f}, 1$ to $\mathrm{ti22}$. Light volue scole
(ivs) from t to 18 . Cine seltings from a to 64 fromes per ILVS) from 1 to 18 . Cine setings from 8 to 64 fromes per
tec. Measures reflected and incident light. Mounts on cam. iec. Measwres reflected ond incident light. Mounts on cam. instructions. Shpe. w1., i/2 ib.
F-351-Reg. 9.00
F-351-Reg. 9.00 ............................... 5.95

PORTABLE 35 MM TABLE VIEWER \& PROJECTOR

- holds 36 SlIDE 5 - FAST SLIDE CMANGE LEVE Here it o lightweight ond compect 35 Mh viower that comperen with models welling hor more thon proof construetion. Une it as a roble viewer with or proiect rour slides an a ligh-colored wall projection screan ond enioy O 10 sa. H. pieture with the some sharp focus. Mogozine holds 36 Hider thot change with the Mict of o lever. Com. poct steot con with corrrimg hondte measures only $10^{\circ} \times>^{*} \mathrm{z} 31 / 2^{-\infty}$ coop. Supolicd completer with slondord 100 wot orolecition bulb, $\$ 3.5$ lens, pro. foction mirres. viow acreen. oniofl iwhich. lime cord and instruction. For los-11s V.AC a0eno. cord.
flon.
F.27.
Not 19.95


## AMPLEX

## PHOTOFLASH

## FLASH BULBS

NEW PF-I - THE ULTIMATE IN LOW COST FLASH BULES - "MY-T-MYTE" AND "SYNCNHO SURE" PMOTOFLASH BULES - LOWEST PRICES-HIGHEST QUALITY GUARANTEED FOR PERFORMANCE Av. Shpg. Wt. 4 oes.


LEATHER GADGET BAG (C)
Genuine pigskin-not plestic. Full $10^{\prime \prime}$. $8^{\prime \prime} \times 4^{\prime \prime}$. Holds your camero and all occossories. 20" zipper top. Zippar pouch In lid holds filfers, olc. Outside pouch with strop ond buckle. All brass hordware. Loops and strops on botlom to hold tripod. Includes shoulder strap and pad. frpg. wi., 1 Ib
F-320 List 8.95
COLLAPSIBLE ILIUMINATED MAGNIFIE宽 (G)
Collopsible lens pulls aut, outomatically lighting flashlight. Magnities work 5 times. Ideol for oxamination of coins, stamps, ofc. Sizo4K" 1 1\%". Shpg.w1.060z 8-426
-0. 98
Lot of 3 ................................. 85
Burg-15s 2 bollery 12 roquired for obove
$\bullet 0.08$

15 SECOND SELF-TIMER (D)
Fits directly in the cable releose of all cameros and also has speciol odapter for Leico-type release sockeis. Plunger length adiustoble to protect shufter mechonism. Automatically relrachs offer picture has been token-permitting film advance and shutter aporotion without remaval. May be sel for 15 seconds or less.
Av. Shpg. Wi.., 4 ars.
F-25
Not 1.98

## 35 mm SLIDE FILE (H)

Pertable all steot 35 mm slide file. Store $1502 \times 2$ glass slides or $3002 \times 2$ cordboord alides. Includes indez cord, and numbered strips for quick, cosy Identificotion. Metol hondle and 2 inap cotches. Finishod in olatinum gray enomel. Shpe. wt. 3 lbs F-161 .................................. 1.69

$\bullet$

## - LIGHTWEIGHT - STURDY - LOW COST

Five section, chrome plated, brass iripod. Extonds $1049^{\prime \prime}$ telescopes down to $12 \frac{1}{\mathbf{g}^{\prime \prime}}$. Weighs only 20 ozs. Tension adjust screws for eoch leg. Camera retoining screw on ponheos rotates - mokes furning comera unnecessary. Pons and tilis with o single motion. Hondle is detachable. Pons $360^{\circ}$ - tilts $145^{\circ}$. A "must" to take the "itggle" out of these special shots. Shpo. Wl., $21 / 2$ lbs.
F-295
Nel 4.49

## FAMOUS MAKE LENS ACCESSORIES



Permits use of ony tens eccessory in some 8 - for lons mounts from 23 to 30.5 mm - Serlor $\$$ aceessorles. Shpg. wi. 3 or - -225 longe C-for sons mounts from 31 to 36 mm - Series 5 occentories.
F-226 ....................................Nel 1.22 Range D - for tone mounfs from 36 to 42 mm - Series 6 occestories. Net 1.67

## CLOSE-UP LENS

No. +1 for $18^{\prime \prime}$ to $38^{\prime \prime}$ owoy, +2 for No. +1 ior to $19^{\prime \prime}$ awoy. +3 for subiects $9^{\prime \prime}$ to $13^{\prime \prime}$ oway. Snpg. wf., 3 oz F. $229-f 1$ for Series $5 \ldots . .$. Net 2.15

F. $230-11$ for Series $6 \ldots 2.55$ F-230 - -1 for Series 6 …..... Net 2.55 F-231 - -2 for Series 5 ........ Net 2.15 \begin{tabular}{l}
F-232 - -2 for Series 6 <br>
P. ......... Net 2.55 <br>
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P-461 - -3 for Series 5 ......... Not 2.15 <br>
\hline-3 for Series 6 ....... Nel 2.55
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## LENS HOODS

Acts as sunshade-reduce glare, WI., 3 oz F-246 Serles 5 ............................Nat 1.71 F-247 Serles 5.A for Min Comeras

Not 1.71

## FILTERS

"A" for using indoar calor film ouldoors. "A." for using new tyo "F." Ektachrome indeor film outdoers. "5kylight" (haze). use wh calar film io reduce heze "K2" for conirest-claud ffect. "goC" fer day light color film indoors with clear flash. "Bh' color lilm hiocrs with clear flash. "B" for rain high speed Ekfochrome and F2145 "A"" Serles 5
"A............... Net 1.80
Nel 23.25 P-463 "A" Series 7 ................. Net 3.67 6237 "F". Series 5 ................ Not 1.80 238 "F". Serlas 6 …............. Net 2.25 F-464 "F" Series 7 ................. Nei 3.67
F240 "Skylight" (Haze) Serias 5
241 "Skyligh" (Maze) Serios Not 1.80
Net 2.25
-465 "Skylight" (Haze) Series 7
Not 1.67
243 "K2"' Series 5 ................ Net 1.80 244 "K2" Series 6 ................ Not 2.25
POLARJ-VUE SCREEN

- Brighter, mare vivid, Calor Shats Mast effective polarizing serean and viaw combination. You see the oxact poloriza. tions needed for your pictures. Controls refleclions fram surfaces such as oloss. woter, wood elc. Yiolds spectaculor sty offecti. Use for lode-in - fode-out lop dissolves, Threoded frant and bock for use with odditionol accessories. Supolied with pauch ond complete instructions. Av. Shpg. Wi. 4028

| F-312 Series 5 | Not 7.27 |
| :---: | :---: |
| -313 Series 6 | Not 8.06 |
| F-467 Series 7 | Nel 10.50 |

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INCIUDING POWER PACK and battery

## New "SPEEDLITE" Electronic Photoflash operates on 110 V AC or Midget Battery Pack

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- featherweight - super powered - 4 second recycie - 50 WATT SEC. OUTPUT - COLOR BALANCED LIGHT - BUILT IN DIFFUSER
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Designed by one of the foremost eleciranic flash engineers. More pawermmore practical fectures than any ather unit in lis price class. Thausonds of lloshes fram ane lifetime tube-pays far tiself in savings an flash. bulbs-less than $1 / 2$ cent per flash. Featherwelght flash hood weighs only 16 ois. Entire unit-including bat-
 exfends 5 f . Iar aff-comera or bounce flash. 15 f . AC card gives practically unlimited movement when operating on AC. Univertal bracket fits any comerg with o tripod socket. Gun alsa maunts on side of portable pack. Light is calor balanced ( $6500^{\circ}$ Kolvin) for calor pictures without filters. Kadachrame guide 25-Tri-X guide 120 . Recycles in 3 to 4 seconds. Speed 1/700 sec. flash duration. Giver soft, even, wide angle itlumination. "Ready" light an head indicates fiash is ready ta fire. "Easy-off" clamp permits rapld off camera use. Socket on head for extension or multiple llash use. Far any comera having X (zero deloy) orn conplete with battery portable pact, 5 ft cailed card shutler card, 15 ft . A.C. cord. mounting brockel, clamp and instruction boak. Shpg. wh., 4 lbs.
F-370
Nel 25.95
Replacement Baftery for obeve. Shps. wh., I Ib
BA-306 thit 7.95
.Net 5.56

## NEW AUXILIARY LENSES

- TELEPHOTO - TWICE AS CLOSEI - WIDE ANGLE - $75 \%$ MONE - CLOSE UP - DOWN $10 \quad 61 / 2^{\prime \prime}$ !


Telephate shots - wide angle shats ar extreme clase ups. Easy ot 1.2 .3 with the new ouxiliary lemses. Each lens is hord cooted for maximum light transmission. Prefocused and calor carrected. Na increase in exposure setting is necessary. Wide angle and lelephoto lonset screw into bring yauf subject iwice os. clase with Telephoto - add $75 \%$ mare oreo with the Wide angle. Indispensable far panoramic shols. Clase up lens hil consists al $+1,+2$, and +3 Prosor lonses-allows facussing down to $6 \frac{1 / 2}{\prime \prime}$ for omazing close-up results. All auxiliory lenses are supplied in caw. hide cases. Use with any calor or black and white film. The clase up lenses require an adopter ring for mouning on your camero. Shps. WI. of each ouziliary lens appron. 6 ogs.
 F-189-AUX. WIDE ANGLE LENS (A) Net 9.90 -294-CLOSE UP SET IE!
F-4O8-YIEW FINDER FOR TELEPHOTO AND W-A IENS (C) -4ce Adopler ring for PACRAGE DEALS One eoch of the ouxillory tomes, clase up set, edapier, end view finder. Shpg. Wh. $11 / 2$ les.
-491

## NEW-BOOSTER EXPOSURE METER

### 6.95

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- ASA Scale-lVS Scole
- Stills or Movies
- Includes booster-Leather
cases-neck cord
Extremely versolile - extromely simple. Highly legible direct reading dial. Speeds fram 4 sec. to $1 / 1000 \mathrm{sec}$. lons operture seltings from lil to fi32. ASA scole 6 to 800. IVS scale 1 to 18. Cine acole 8, 16, 24 and 32 fromes per steond. Booster cell mokes posible readings of extromely law light levels. Smoll-rugged-lightwoight. Includes booster cell, leather cases, neck card and in. structions. Shpe. w1., it it.
F-349 Hst 11.95
 FOLDING BC FLASH GUN - roldos hika a tan to ank 2"I - etricient a.c opirationi
hoond nea - uniave - oecket size - cempierely telding, honh wait of botoyelio " fomone low-cesil Emeiont $4 h^{\prime \prime}$ hiameter metal reflector then pebbled hainh to otiminete Hoevy melded combinery coect with built in ant hi velteete.
 -iocter - enfension sertet. Slomderd inoed Eith prosure
 coor of sev. Cemplote with cord fer fichining ond sen. deneer. Shee. wh. 1 liv. fejep Cemplote tith sece Not 3.0 BAIIT Battery for above


## MORE CAMERA for the Money than any Other



## CHECK the features Then CHECK the PRICE!

Comparable Value 59.50

- 3 Fast f 1.8 Lenses. 4 Speeds-including Slow Motion. Single Frame Exposure. "Combo-View" finder-for normal, wide angle and telephoto areas. - "Drop in" Spool Loading. Builtin Exposure Guide. Die Cast Aluminum Body. Slide Rule Footage Indicator.

Truly modern-truly versatile-and truly Inexpen. sivell Lafayette's "8-73" puts movie-making in the snop-that class. Fost if 1.8 lenies-normal wide angle ond tolephato for fine color movies oven in dim light. Fixed focus on alf three-nover noedr "Iumate-focusing." Single dial expoture sething-for all three lenses. Positive lock turrel iwitch from normol to relophato to wide ongleovery time. The lensotic opticial viowfinder fromes
the areo for each separate lens. "Drop-in" spoel loading-casy and ecanamical-mokes revarse loading on impossibility. All lenses recessed in their own sun-shodas. Four operating speeds plus their own sun-shodas. Four operating speeds plus
single frame expoiure far frick effects. Heovy dinglo fram. exposure for trick effects. Heory duty-governor controlled-spring wind motor. The "8. 73 " offers more for ters money than any ather 8 mm mavie camera. Shpg. wh., 3 lbs. F-470 Comera only … 5.00 Down ... Net 29.95 F-469 leather Care for " 8 -13". 8 oc......Not 2.95

## PRECISION 8 mm MOVIE LENSES

## FASTEST! FINEST! LOWEST PRICES!

- $11 / 2^{\prime \prime} f 1.4$ Telephoto - 6.5 mm f1.4 Wide Angle
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Lafoyefte - and only Laforelfe-has these lenses of prices nover before possiblel Now you con add that distont scene-thase exciting close ups. Add untimited versotility to your movie comero. The finest coaved oplics are used thraughoutfully color corrected. Fit all 8 mm comeras with. slondard D mount such as Kodak, Koystone, Revere, Delur, Bolez H8, olc. Salin chrome finish. Removable lens hoads. Acsept stondord filtert. Individual lenses complete with leather coset. Sets are pocked in iowel trpe presentotion in case. Camplete with lens cops.
$11 / \mathbf{2}^{\prime \prime}$ \$1.4 Telephoto: Fastest ovallable lens for 8 mm . Exceptional speed-atreme sharpness. Foceses 3 k ft . to infinity. Click stops $\mathbf{\$ 1 . 4}$ to fl 6 . 3x magnification. 5 element lens. Focusing mount. Shpg. wi., 1 lb.
F-299-L1st 44.95
Not 16.59
0.5 mm f1.4 Wide Angle: Extreme wido angle. Covers 4 E arse af normal lons. Extramely fost-for poorest light conditions. Click stops fl .4 to 116.8 olement retro. forus formula. Focusing mount. Shpg. wi., I ib.

$11 / \mathbf{x}^{\prime \prime}$ f1.9 Telephoto: Foit, shorp, fully coated. Click sfops 11.9 to 116 . Focuses 3.5 ft . To infinity. 3r megnification. 5 element systems. Focusing mount. Shpg. wf., 1 16. 302 -List 38.95

Net 12.95
6.5 mm f1.9 Wide Angle: Covers $4 x$ area of normal lens. 8 eloment retrofocus formulo. Fized focus for universal focusing. Click stops $\mathrm{fl.9}$ to 116 . Shpg. wt..
1 tb.
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Fi.4 Matched Set: The finest availoble. Both fI .4 Telophoto and fI .4 Wide Anglo in o deluxe, lewal type, presentation case. Shpg. wt., 2 lbs. F-304-List 89.95 5.00 Down

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- Falds to $16^{\prime \prime}$ Including Panhead! - Extends to $47^{\prime \prime}$ PLUS $7^{" 1}$ Elevatorl - Trl-Filt heod - Moves In 3 plonesl

For ony :mall comoro - $35 m m$ - rofori - or morio. Protesionol avolity for profestional couvtrs. Strone stoadr - liohtwemiont. Poncil slim, chrome plotod, brast toest lock socuraty in ploce- - told down roodiliry. Sinole oction till-pon - ond iwing over tor takinos pic.tures in vertical or horizontal format. Goored olevector centerpost with positive lock and folding cronk. Weighs only 31 ozs. All the most wanted foatures in one triped. Shpg. wt., $21 / 2$ lbs.
F-339 Ust 19.95
Not 9.4
NEW "mini-pro" 2" x 2" MM SLIDE PROJECTOR

- COMPACT - ONLY $81 / 2^{\prime \prime} \times 6^{\prime \prime} \times 41^{\prime \prime}$ OVERALL
- BRIGHTER - SHARPER - EVEN IN LIGHTED ROOMS

- $80 \mathrm{~mm} / 3.5$ COATEO 3 ELEMENT LENS

A new, partable prolector for showing mounted $2^{\prime \prime}$ m $2^{\prime \prime} 35$ mm transporencies. An unusualty fine, com. pound lens syafem develops o brilliance seldom found in prolect. ore of for higher wattage. Prolection tens in i/3.5 three clement, \$/3.5, three eloment, triplet type, anostig. mat, oxtromely fine, ospheric, multi. con. denser systom multh. pliet the lamp output giving the maximum il. ceminotlon posilble. Ex imoges-even in lighted rooms. Highly efficient dauble fube venturi cooling plua hardened, heot absorbing filter. Sildes will not "pop" out of focus-eliminater constont rofocusing. Flot field projectlon elliminates the usual distortion. Proiection distance ranger from 3 feet to 26 foet. Flll a $40^{N} \geq 40^{\prime \prime}$ icreen of 10 foet. At 26 feet you oet a giant 8 ft . by 15 ft . picture. Elevating knobs tlit praiector to desired angle. Weighi less than $31 / 2$ lbs. Includes 150 walf pro iection lamp, attrastive, sturdy corrying cose, stondord iwo slide carrier, six
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## afayettes DIRECT IMPORTS Make These Prices Possible <br> 79.50 <br> Probessionally Designed and Produced <br> 2.4" EQUATORIAL REFRACTOR <br> - 800 mm . Focal Length 62 -mm. Objective

Polaris<br>- Mieromotion adjustments on both axes<br>- Coated optics throughour - Equatorial mount

## $160 x-88 x-40 x$ with eyepleces included $200 x^{*}$ by use of optional eyepiece

 Latest in a long line of Lafayetfe refractors at reasonable prices. The unusual value of the Polaris is recognizable in the following specifications. Objective: Fraunnoter-type achromat, hard coated, 62.5 mm .800 mm . focal length. Collecrs about 75 times as much light as the naked eye, resolving power 2 seconds, faintest discernible star 10.7 magnitude. All evepieces are hard-coated Huygenians. Eyepieces included: 160x ( $5-\mathrm{mm}$ ), $88 \times(9-\mathrm{mm}), 40 \times(20-\mathrm{mm}), 22 \mathrm{n}(35-\mathrm{mm})$.Finder scope is $6 x, 20 \mathrm{~mm}$. Equatorial mount with slow-motion controls in right ascension and declination. Tripod head with latitude adiustment. Clamp lever for declination and inclinatien. Accessories include sunglass, star diagonal, erecting prism, sun propection screen, field trlpod, and wooden case. Magnificalions of $100 \mathrm{x}, 88 \mathrm{x}$, and 40 x . Rach-and-pinion focusing.' Heavy plating used throughout to prevent rusting. Shipping wi. 30 lbs .

## F342 wx

Het 79.50
F391 200x obrainable by use of optionat 4 -mm Orthoscopic Eyepisce
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## Achromatic BARLOW LENS



Makes Any Good Telescope Better
Improves Deflntions Eye Relief The Borlam lens to o nepative idivar
 of mognificotion of any given 1et of eyepieces. Greater eye reliof is pro-vided-even on shart foral length erepieces. Sharpens deflinition and reduces image deterioration by permitting use of low.pawer eyepioses to achiove high magnification. This olso provides far greater illuminallan and o wider fietd. By increasing the effective locol length of the abiective-ond reducing its relative aperture-il greally reduces oberrotions present in poarly carrected eyepieces. Lofoyette's Barlaw tons will make any gaod telescape perform like a mush lorger one. Fits oll tofoyetre totescapes ercept F. 330 Enplorer. Accepts oreoieces of $24.5 \mathrm{~mm}\left(.97^{\prime \prime}\right)$ O.D. ond fits draw tubes of that size. Shpg. wi., 1 tb.
F-423
(23)................. 4.95

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Monufactured to eztremely close tolerences by one of world's leoding manufacturers of opticol accessories. These oculors al
low you to oblain monimum perfarmonce fram your refractor or refector. You con determine the magnification pessible by
dividing the focal length of the - yepiece into the facal length of the tolercope objective lon All are hard cooted. The 24.5 mm O.D., $\left(.97^{\circ}\right)$ fits mast iele. scepes currently ovallable. Avp shog. wl., 3 az.

Stock \# Description
Not, ea
8.95
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Page 296 F. 451

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volis ACJDC. volts ACJDC. tomp is easily reploced. Solf sontained switch, sord ond plug. Iomp body
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OPTICAL SPECIFICATIONS: Four ochromatic. coored obiectives $4 \times / 0.15$ n.o., $10 \times 10.25$ n.0., $10 \times / 0.65$ n.o., oil immersion $100 \times / 1.25$ n.0. Eight poired ereDieces. Two each $5 x$ Huygenion, 10x Huygenian, 15x peri-planatic, 20x Kellner. Dust proof quadrupie re. volving nosepiece.
BODY: Interchangeoble Binocular tube inelined $45^{\circ}$ graduated Interpupillory adiustment, left eyefube ad justs for refroctive difference between iwo eyes. Mo. nocular fube is extendable, graduated in mm from
140 mm 140 mm to 190 mm . Porfocal at 170 mm .
STAGE; Squore stage $125 \mathrm{~mm} \times 130 \mathrm{~mm}$. Mechanical stage with $30 \mathrm{~mm} \times 70 \mathrm{~mm}$ range of movement with vernler occurate to 0.1 mm . Sllides of practically every shope and size, including petri dishes, can be used. rOCUSING: Caorse focus by meons of coazial rock and pinion drive on dovetail slide. Fine focus by coGrial micrometer slaw motion Meyer's type odiust. Graduated 1 division equals .002 mm 12 micron in. tervals). Spring laoded action prevents driving through
subject. subject.
SUBSTAGE: Rack and pinion driven. Double fens bright field condenser (interchangeablo) 1.2 n.a. Vils diaphrasm. fitter holder, stop ogoinst overwind, 50 mm plana-concave mirror.
Satin block baked enamel finish. Chrome trim. 131/~" ${ }^{\circ} 81 /{ }^{\prime \prime} \times 51 / 4$ overoll. Net weight 34 lbs. Includes fitted cobinet of fine grained ook with lock ond key, Sce of ceder oll, spring clips, spanner, blue filser.
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OPTICAL SPECIFICATIONS: Four cooted achromatic objectives. $4 \times / 0.10$ n.0., $10 x / 0.25$ n.o., $40 \times / 0.65$
 $\mathrm{n} . a$.. all immersion $100 X / 1.25$ n.0. Three eyepieces,
$5 X$ Huybenian, $10 X$ Hurgenian, ond i $\$ x$ peri-plonatic. BODY: Extendoble, monacular tube. Graduoted in mms from 155 mm fo. 200 mm . Poriocal at 170 mm .
STAGE: Square stoge $120 \mathrm{~mm} \times 125 \mathrm{~mm}$. Groduoted mechanical stoge with $50 \mathrm{~mm} \times 80 \mathrm{~mm}$ range of movement. Vernier accurate to 0.1 mm . Accepts slides of practically every size and shape including petri dishes. FOCUSING: Coarse focus by means of rock ond pinion drive on dovetoll slide. Fine focus by coaxiat, lever type, micro-motion. Full 16 revolutions for 3 mm trovel. trye, micro-motion. Full 16 revolutions for 3 mm travel.
Spring laoded solety device provents driving through Spring laoded sof ety device prevents
subiect. Focusing tension adjustable.
SUBSTAGE: Ring type, rack ond pinion drive. Double leni bright field condenser (interchangeable) 1.2 n.a., irfs diaphragm, filter holder, stop against over wind, 50 mm plane-cencave mirror.
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OPTICAL SPECIFICATIONS: Six peired, ochremotic, coated obiectiver, $2 x, 4 x, 6 x$, Interchongeable by means of o dovefoll tide. Six polred widefield eyepieces. Coated and corrected for chrometic aberration and field curvalure. Two each $5 x$ Hurgenian, 10x Kellner ond $15 \times$ Kellner
BODY: Inclinable $90^{\circ}$, cooted prism system for maximum Jight transmission, inter pupillary adjustment 55 mm fo 75 mm , eyepiece diopter odjustmemt.
STAGE: $90 \mathrm{~mm} \times 100 \mathrm{~mm}$ removoble sloge. 70 mm Aush top glass plele, long spring clips, OCUSING
FOCUSING: Rock ond pinion focusing mechanism with $3^{\prime \prime}$ ezcursion of the rack. Dovereil slide, oversize knobs, adiustable focusing tension.
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Lafayotre's policy is to quote the lawest prices possible. Our catolog prices ore NET, and do not inciude shipping charges oxcept where morked POSTPA1D. All discounts have beon deducted, Including $\mathbf{2 \%}$ discount for cosh.

Yau always receive Lafoyette's lawest current price, should econamic or other factors affecting our costs, allow us to reduce prices below or other factors affocting our cosis, oilaw catolog prices. All prices in this cetalog are subject to the stated catolog prices. All prices in this catalog are subject to change without

Our low price palicy is posisible because wo buy for CASH ond sell or CASH. We da not corry open accounts, oxcept for EASY PAY PLAN. (see opposite poge). We pass on to yau all sovings affected by oliminating costly bookkeoping.

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1. Print, or write plainily, your name and address on our convenient order blank or any plain stationery (we will provide additionol order blonks upon requast). If your arder is to be shipped to on oddress or person other than yourself, be sure to provide us with complete information.
2. Indicote how you want your arder shipped by checking the proper quare. We follow yaur instructions unless postal or carrier regulo. tlons restrict us, or unless a change is in vour best interest. " $X$ " after the cotalog stock number indica:es that the hom is shipped wa ex. press (see above, "EXPRESS SHIPMENTS").
3. Fill in the complete stack number of each liem ordered, avantity desired, description (include manufacturer's name where appro. priatel, color, price and shipping weight.
4. Total the shipping weights of all ltems and change ounces 10 pounds (16 ounces to a pound).
5. Camputo the fetal amaunt for liems ordered. If arder is to be shipped Parcal Post, wie rate toble on this page to estimate postoge to be added to your remittance. Overages promplly refunded. Do not send freight ar express chorges, these shipments are semt shipping charges collect at no odditional cost to you.
6. Enter amount far tax (lf anyl, and amount due an provious ardar (if any).
7. Add up the potal emount of your order and entor in TOTAL Space.
8. Enter amount you are remitting in space provided next to tind of order-(fully Paid, Easy Poy, COD Deposill) in Amount Enclosed spoce. If you are ordering Through our canvenient Easy Poy Plon, be sure you use ink, and fill in the full information requested on the reverie sid of the order blank.
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| Amount of Order plus Postage | Pastal Manay Order Rotes | $\begin{align*} & \text { Pontal COD }  \tag{array}\\ & \text { Fees } \end{align*}$ |
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| Up to $\$ 5.00$ | 15\% | 30. |
| \$5.01 10 \$10.00 | 20. | 40. |
| \$10.01 to \$25.00 | 30. | 60. |
| \$25.01 ta \$50.00 | 30. | 70. |
| \$50.01 to \$100.00 | 30 | 808 |

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Express charges are also determined by the weight of the shipment and the distance of consignee from the shipper. The follawing chart indicates opproximate charges. Add 3\% Federal Transportatian Tax.

| WEIGNT | MILES | MILES | MILES | MILES | MILES | MILES | MILES | MILLES | MILES |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 Mbs. | 2.23 | 2.33 | 2.61 | 2.92 | 3.24 | 3.63 | 4.87 | 5.34 | 5.50 |  |
| 30 | $\cdots$ | 2.52 | 2.66 | 3.09 | 3.56 | 4.05 | 4.61 | 6.47 | 7.18 | 7.43 |
| 40 | $\cdots$ | 2.80 | 3.00 | 3.57 | 4.19 | 4.84 | 5.60 | 8.08 | 9.02 | 9.34 |
| 50 | $\cdots$ | 3.08 | 3.33 | 4.05 | 4.84 | 5.64 | 6.58 | 9.68 | 10.86 | 11.26 |
| 60 | $\cdots$ | 3.37 | 3.66 | 4.54 | 5.47 | 6.45 | 7.58 | 11.28 | 12.71 | 13.19 |
| 70 | $\cdots$ | 3.66 | 3.99 | 5.02 | 6.10 | 7.25 | 8.56 | 12.90 | 14.54 | 15.11 |
| 80 | $\cdots$ | 3.85 | 4.33 | 5.50 | 6.74 | 8.04 | 9.55 | 14.50 | 16.39 | 17.04 |
| 90 | $\cdots$ | 4.23 | 4.67 | 5.98 | 7.38 | 8.84 | 10.54 | 16.11 | 18.23 | 18.96 |
| 100 | $\cdots$ | 4.51 | 5.01 | 6.46 | 8.02 | 9.64 | 11.51 | 17.71 | 20.07 | 20.87 |

Hill is nacevory to rcite to us:
On Fully Poid Orders, we rofurn your ariginal arder popars. Please check ofl explonations on the arder and related papers. If you do writo, please return all arder popers, invalce, and reloted popers. If you da nat have the arder poperi, please give us the complete stack number, quantity and descripThe camplete stack number, quantity and descrip-

Express charges with your order. Charges are collected upon delivery at no extra cost to you. If there is na agent in your town, specily your neorest express office. Insurance is included in your ex. press rates.

HOW TO RETURN
By Porcel Posi-place all order papers, corpespondence, ond your instructions, in on envelape INSIDE your pockoge. On the outside of the pacte. age. marh "FIRST CLASS MAIL "ENCIOSED" and add the addlitional amount of first class postage for the enclesure. If porcel was received domaged, be sure yau receive a report fram yaur pastman and
given us the same name and address that appeared on your order
On Easy Pay Orders-Be sure yeu mention yaur EP Accaunt number
IMPORTANT-If sending in a new order, please write alf carrespondence or cemarks not related te write all correspondence or temarks not on a separate sheet of poper. This will your arder on o separate sheet of paper. This will

## MERCHANDISE

enclose with popers. By Express-If your shipment is received damaged,
obtoin a report from your express agent and mali obtoin a report from your express agent and mall
to us. Woit until you receive aur instructions an how to us. Woil until you receive aur instructions an how
to relurn. NOTE-Merchandiso nat regularly stocked to relurn. NOTE-Merchandise nat regularly stacked
that has been ardered speciol for you is NOT rethat has been ardered speciol for

PARCEL POST RATES FOR ALL ZONES
Subject to post offioe rate changes

| $\begin{aligned} & \text { WEIGHT } \\ & \text { IN } \\ & \text { IBS. } \end{aligned}$ | IOCAL | 2 ONES |  |  |  |  |  |  |
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|  |  | $\begin{aligned} & 1.2 \\ & \text { U } \mathrm{TO} \\ & 150 \\ & \text { MILES } \end{aligned}$ | $\begin{aligned} & 3 \\ & 150 \mathrm{TO} \\ & 300 \\ & \text { MILES } \end{aligned}$ | $\begin{aligned} & 4 \\ & 300^{\mathrm{T}} \mathrm{TO} \\ & 800^{2} \\ & \text { MILES } \end{aligned}$ | $\begin{aligned} & 500^{5} \text { TO } \\ & 1.000 \\ & \text { MILES } \end{aligned}$ | $\begin{aligned} & 6 \\ & 1.000 \mathrm{TO} \\ & 1.400 \\ & \text { MILES } \end{aligned}$ | $\begin{aligned} & 7 \\ & 1,400 \mathrm{TO} \\ & 1,800 \\ & \text { MILES } \end{aligned}$ | $\begin{aligned} & 8 \\ & \text { OVER } \\ & \text { 1,800 } \\ & \text { MILES } \end{aligned}$ |
| 1. | 50.18 | \$0.23 | 50.23 | S0.24 | \$0.26 | \$0.28 | $\$ 0.30$ | \$0.32 |
| 2 | . 20 | . 27 | . 29 | . 31 | . 36 | . 40 | 46 | . 51 |
| 3 | . 21 | . 31 | . 34 | . 38 | 45 | 52 | . 61 | . 69 |
| $4 . .$. | . 23 | . 35 | . 39 | . 45 | . 54 | . 64 | . 76 | . 87 |
| 5 | . 24 | . 39 | . 44 | . 52 | . 63 | . 76 | .91 | 1.05 |
| 6 | . 26 | . 43 | . 49 | . 59 | . 73 | 88 | 1.06 | 1.23 |
| 7 ... | . 27 | 47 | . 54 | . 66 | . 82 | 1.00 | 1.22 | 1.41 |
| $8 \ldots$ | . 29 | . 51 | . 60 | . 73 | . 81 | 1.12 | 1.37 | 1.59 |
| 9 | . 30 | . 55 | . 65 | . 80 | 1.00 | 1.24 | 1.52 | 1.77 |
| 10 | . 32 | . 59 | . 70 | . 87 | 1.10 | 1.36 | 1.67 | 1.95 |
| 11. | . 33 | .63 | . 75 | . 93 | 1.19 | 1.48 | 1.82 | 2.13 |
| 12 | . 34 | 67 | . 80 | 1.00 | 1.28 | 1.60 | 1.98 | 2.31 |
| 13 | . 36 | .71 | . 85 | 1.07 | 1.37 | 1.72 | 2.13 | 2.49 |
| 14 | . 37 | . 75 | . 90 | 1.14 | 1.47 | 1.84 | 2.28 | 2.67 |
| 15.... | . 39 | . 79 | . 91 | 1.21 | 1.56 | 1.96 | 2.43 | 2.85 |
| 16 | . 40 | . 83 | 1.01 | 1.28 | 1.65 | 2.08 | 2.58 | 3.03 |
| 17 | .42 | . 87 | 1.06 | 1.35 | 1.74 | 2.20 | 2.74 | 3.21 |
| 18 | . 43 | .91 | 1.11 | 1.42 | 1.84 | 2.32 | 2.89 | 3.39 |
| 19. | .45 | . 95 | 1.18 | 1.49 | 1.93 | 2.44 | 3.04 | 3.57 |
| 20. | . 46 | .99 | 1.21 | 1.56 | 2.02 | 2.56 | 3.19 | 3.75 |
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Adding Machine ....278,286 Alarms ..................... 133 Alignment

Tope
Tools .................................i74

## AMATEUR

##  Ampinfers ..212,214,215 Koys ..................220 Mobile $213,217,219,221$ Receivers ....211,213,215 Transcoivers ….215,217 <br> Transmithers, Kit 217,218 Transmithor-exciter .. 214 <br> 

## AMPLIFIER

Amotour ....212,214,215 HI-Fi ...2,6,8,20-30,65, Hi-Fi Kitt.... $65,67,69,70$ P.A. $\quad . \quad \begin{array}{r}229-233,308 \\ 249,250,252\end{array}$ Phono Kit ….......101,104 Recording
Recording. Playbock .... 93

## ANTENNA

 Boses ….................. 219

Boostors ….......... 257 Boosters ................. 257 Colls $. .137,166,219,266$ Halo | Installation Kir ......... 2258 |
| :--- |

 Mast Rototors ................... 257 Springs ....a............. 219 Towert ...................... 264

## ANTEMNAS

Amateur ....216-219,221 Coopitick .136.137,169 | Loopstick $1136,137,1139$ |
| :--- |
| Transistor loop $\quad 258.137$ | TV. Indoor .......258, 200, 262,263 WIndow …........221,283

Anvil Arrestor, llohining $\quad . . .266$ Audio mixers ..........84,244

## Auto



Boffles, Speoker ..234,244 Boses Motol Chossis $\quad . . . . .71,208$
Record Chonger $. . .75,13$,
Turntable .....81,82,102
Binding Pos
Binoculors
Blades Tool
Blow Torch

## Blower Boords

## Perforated

Phone Mounting -..... 140 nting. 71,73,
$75,81,82,102$
Printed Circult .......... 141
Speaker ............. 102
Baoks .....114,199-207,298

## Boosters

FM …............................ 257
Brockets, Mounting 136.121 ,
Breadboard, Mosonite 140
Broadcoster, Wireless 101
Bulb Remaver, pilot ... 163
Buzzer, High
Frequency
Frequency ................. 220


## CABLES Cooxial <br> Coaxial ................... 177 Intercom Jumper ...................96 Microphone ..... 176.239 Parallel Parallel ..................176 Phono Speaker Extension .176 

 Collpers ….............275, 278 AccossoriesEquipment......291,292
291.292 Cons, Tape Storage .......90 Copocitance, Decode .. 138 Copocitonce,
Substitutión
CAPACITORS
Ceromic ..........142,148, 149,176
$.142,143$, Electrolytic
$146,150.142,143$,
141, High Voltag $6 . . .154,152$,
153,268 Mice ........................ 178 145,151,152,154
Mofor Siarting OII Filled
Porceloin Cased 143.152 Printed Clircult ......... 143. Quartz Seal $\ldots \ldots \ldots \ldots 154$
Tantalum........154 Temperalure
Campensated
Trimmer ..........149.167 $149,153,269$ Twist Prong $\ldots .146,147$
Vorloble .... $115,136,138$

## CARTRIDGE

CARTRIDGE
Hi-Fi ...24,76-79,98,100
Microphone $\ldots . .239,241$
Phono . 24,76.79,98-100 Phono .24,76-79,98-100
Service Kif ............... 100

## Tape

Bokplite .................... 138
Corrying
73
Corrying .............................. 228
Equipment ............ 208
Meter
Meter
Plastic
Minioture ....-140,228 Record
Speoker ............................... 208

## Coment

Record
Baftery 120,188,238,306 Plugs ….................. 238 Chassis, Metal ......208,210
Chest, Tape Storage ...... 90
Chisel Set
CHOKES
Filter $. . . . . . . . . . . . . . .127,128 ~$
R.F. ....................... 166
TV
TV
Clizen Bond
Eoulpment 211,212,216
Tronscoiver 211,212,216
Transmliter Kit $\ldots \ldots . .223$
CLAMPS

Cleoners 104,175,256.268
CIIPS

Curve, Adjustable ..... 281
Cushions, Heodphone 169
Cutters ..............278. 279
 Transistor .................. 137
Tuner Video Detector .......... 269 Winder ..................... 228

## COMMUNICATION

EOUIPMENT
211.217 .218

Kits ...........211,217,218

## CONNECTORS


Printed Circuit ........ 141
RF ........................ 165
Terminal Blork ....... 154
Twin Leod ..............265 CONTROLS


## COUPIERS

$138,265,266,268$


## DEMAGNETIZE



EARPHONES

## Foder, Speaker .....96,235 Files

## flters

| - | Telephone ..228,247,250 |
| :---: | :---: |
| ILTERS | Wireless ...........227,251 |
| Air Conditloner ........ 287 | ion Trops .................... 267 |
| Furnace ................... 287 |  |
| Interference ......145,264 |  |

Amplifier ................... 257 Recelver ....212,217,269 Televerter ............ 257 Tuners Tel. $9,21,23,25$,
FM-AM ${ }^{27 \cdot 29,215,232,269}$
Rocelver $\begin{array}{r}\text {........20,22,27 } \\ 212,269\end{array}$
Tuners $\begin{array}{r}9,21,23,25,26 \\ 28.30,66,229\end{array}$ Foundation, Amplifier 208 Fuse Mounfings .............. 161


## JACKS

Banana ….................172
Minlature ........140,164;
Phone .................169-171
Phono
Jowels, Pilot Light ....... 163
Jumper Leod Kil ............ 171
Spray Con 256 Hardware

KIt .............................. 178 kadio-TV .................... 175 Heodphones ..........168-170 Cushions ................. 169 Heads, Recarding ........93
Hearing Alds ........ 169.301 Hearing Alds ........169.301
Heaters, Immersion ... 256 HIGH FIDELTY
Accestories $103,96,97,99$; Amplifiers $.2,6,8,20.30$, Cartridges .....24,76.79, 98,100
$3,36,37$. $39,41,44,46,48$
$51,52,58,59,62,63$ Equipment Cobinot 62,63
> M.AM

Receivers ......20,22,27
pllfiers ..10,22-29,
$68,70,77,230.233$
Record Changers . $71-75$
Record Players ....73-75
Record Players,$\ldots .73-75$
Speakeri $\ldots . .27,31,32,34$,
35. $50,54-57,61,63$

Speaker Crossovers $\ldots .32$,
$35,40,42,43,46,47,56$
pooker Systoms .31,33, $47,49,41 \cdot 43,46$. 59.62,307 Systoms ........3,7,8,10-19 Tapes
Tope Recorders ............80.91
Te Test Record ............ 103
Tone Arm .....24,73,77,
Uners $\ldots .9,21,23,25.30$,
$66,215,229,231,269$ Turntobles $.73,75,80.83$
Turntable K 11 Hoist, Miniature ........290
Horns .............35,246-248 Horns
Humidity Sensor........... $.141 ~$


Keys, Code Practice .... 220 KITS

Amotour Amplifier .. 214 Amateur
Amplifier ........65,67,69 5,67,69.
$70,225,226$
$229-233,308$
Anolog Computer ... 226
Antenno Installatlon 258
Auto Speoker ........... 235
Citizens Band
Transmliter
Code Practice
Communications ........ 225
Drowing ............ 217.218
Electric Brain....... .226
Epoxy Encapsulation 141
Experimenter ....222,226,
Finishing $\quad . . . . . . . .33,58$
Fishing ............271,290
Hardwar
HI-Fi System .......64,65

Jumper leads 171
lamp ........................ 256 Meler .................186,189
Microscope
Accessorites -....... 299 Modulotar ................. 217 Motarized Amplifier ........... 228 Photocell Reloy ...... 222 Preompliffer
$224,230-233,70,308$ rinted Circuli ..........141 $\begin{array}{r}\text { Probe .................. } 186 \\ \text { Radio } \\ \hline\end{array}$ Recoiver ...211.222.226 Receiver Coll .......... 136 Record Cleaner ........ 104 Romote
Contral .....u70,76,233 Scratch
Speoker
Crassovers .............. 63
peaker Enclos ure .....33, 37,46,58,59
$39,41,42,46,58$
Sproyer ..................... 273
Tone Arm ..............79 Tone Arm .................79 79

Tronsmitter 224-226,228
Tuner ..........66,229,231.
VOM ..........190.193.196
VTVM ..186,189,190,193
Knobs .........................178,139,178

Lamp

Layou
leods
Jumper
Phon
High Voltage ..................... 172
Legs ...........................285
Levels ...102,275,278,285
Clinomoter, Phono ......... 287
light Coat Kht ........... 175
Lightning Arresters ...... 266
Line Cord, AC ..........173

## M

Magnets ........267,279,287 Magnifiors ....278,286,291.
Mognetizer Tools .ne.... 278
Morlne Radio
Equipment ........215,217
Masfo, TV ................... 264
Megophone, Power ...... 247
Motel
Edgewise Ponal 182,185
Exposure …......291,292
Frequency ..............184
Grid Dip ...........217,218
Pone!
Panel ............ 182.185
Siereo Balance ........ 179
Time
Tuning
VU
Microlite
Accessorles
MICROPHONE
Accessories 85,239,242
Adoptors ..........24,245
Cortridees ........239,241
Miners . 84,85,103,244
Stonds 239,243,245,255
Miepophones ................. 2421

Contact …..........241,243 Miniature. $140,169,239$ 241,242
Microscopes $\quad \begin{array}{r}294,296 \\ 298.300\end{array}, ~$

Photo-Electric

| Light Swltch ............ 133 Photoflash ................ 292 |
| :---: |
| Pilot Lights ...162,163,178 |
| Plates, Auto Trim ....... 237 |
| 8otton. ............. 208, 210 |
| - |
| Pllars |
|  |
| LUGS |

pivgs
Banana ................... 172
Coble 165
Double ....................... 170
Minlature 140.164 .169

MOTORS
Analyzer 238
Miniature
Synchranaus …......... 156
Mounting Boords.
Phono . $71,73,75,81,82$,
Maunts
Antenna $. . .219,264,266$
Movle Cameras........ .293
Movie Lenses ..........293
Multtesters ..180,181,186,
MULTIPLEX ADAPTOR
Music Box Movements 287
N
Needles, Phono 77.79,94, 95,104
Networks, Crossover
See Crossovers
Notching Tool ............. 209
Navotran ................... 286


Oullets $187,189,190,193$

| Pads | Recard ........................ 102 |
| :---: | :---: |
| Pads, | Tope ......................... 92 |
| Isolatlon .............. 101 | WADIO CONTEOL |
| Speaker .......63,96,121 | Crystals .................. 223 |
| PANELS | Escopements ........... 223 |
| ofors .............182-185 |  |
| Plywood s................. 102 | Recpivers .................. 223 |
| Relay Rack .............. 210 | Relay .................... 223 |
| Ponheod ..............291. 293 | Servo- |
| Pantograph ................ 286 | mochanism ........... 223 |
| Patio Lamps ................ 256 | Sockel ................... 223 |
| PAYMENT PLAN, EASY | Transmithers ............ 223 |
| 302 | Tbiephones ............ 217 |
| Phones | Kits ..................138,211 |
| Sound-Powered ....... 268 | 224-226,228 |
| PHONO | RADIO |
|  | Automobile ............ 237 |
| $97,99,101,102,104,244$ | Klis ...............138,211. |
| Amplifiers .........101.104 | 217,224-228 |
| Cortridges ......24,76-79. | Pockef .................. 224 |
| 98-100 | Portoble ....226,228,306 |
| Changers .............71-75 | Toble .................... 306 |
| Covers ....t............... 101 | Translstor $\ldots \ldots .1224-226$, |
| Leads ...................... 101 | 228,237.306 |
| Level Screws ........... 102 | Finder .................... 271 |
| Mixers .................... 244 | "Rood-Ease" |
| Motors .................... 101 | Glasses ................. 287 |
| Mounting Boords 71.73, | Reamers ..............209,279 |
| 75,81,82,102 | RECEIVES |
| Playens ..................73-75 <br> Pluge 8 Jack 96,97,168. | Communication 211-213, <br> 215-217, 223, 226 |
| 171 | FM ..........212,217,269 |
| Sivll $\ldots . .77-79,94,95,104$ | Kit ............211,222,226 |
| Syitems .....3,7,8,10-19, | Moblle .....215,217,218 |
| 65,101,229,330 | Stereo ........20,22,23,27 |
| Tono Arme 24,73,77,79, | Receptacles, |
| 80,98 | Lamp ...............162,173 |
| Turntables 73,75,79.83, | - ECORD $^{\text {d }}$ |
| 101 | Accessarles ..71, 102,104 |
| Wires ..................... 176 | Albums ............. ....m. 102 |
| Phonographs ...........83,89 | Brush ...................... 104 |
| Phonograph, Stereo ..83,89 | Cobinels .................. 62 |
| Phatocels ................. 140 | Core KIt .................. 104 |
| Photo-Electic Alarms 133 | Carrying Case ......... 102 | <br> \title{

NDEX(Cont'd)
} <br> \title{
NDEX(Cont'd)
}


| Changers | Tips $\qquad$ 282 <br> Spoghetl! $\qquad$ 177 |
| :---: | :---: |
| Clpaner Kit ............. 104 | SPEAKER |
| Covers .................. 101 | Baffles …….....234,244 |
| Spiders .................... 102 | Controls .............35,121. |
| RECORDING | 235,269 |
| Slanks .................... 138 | Crossovers .....32,35,40, |
| Heods ........................ 93 | 42,43,46,47,56 |
| QECORDS | Drivers .....244,246.248 |
| Code Praclice z........ 220 | Enclosures .....33,36,37. |
| Foreign Language .... 102 | 39,41,44,46,48,51, |
| HI-Fi Tesi ................ 103 | 52,58,59,62,63 |
| RECTIPIES | Faders .............96,235 |
| $109,110,112,113,115$ | Kits, Auto <br> Phase $\qquad$ |
| Reel Locks ...................93 | Confral .....96,97,269 |
| Reols | Reducing 8oords ..... 102 |
| $.90$ | Switches . $96.97,235,269$ |
| $\text { Soin .......................... } 270$ | Systems .....31.33,36,38, |
| Refractometer, | $\begin{array}{r} 39,41-44,46,47 \\ 49 \cdot 53,55,57 \cdot 62,307 \end{array}$ |



Refraciors ............294,295 Registar, Tally ............. 286 Regulators,
Voltage ...........131, 263
Rejuvenotor, TV ... 191.197 RELAYS
Antenna Swltching .. 159 Delay
Purpose .......... 158.159 Latching ............159.160 Miniature .. $156,158.160$ Pholocell .................. 222 Plote CIrcult ........... 159 Powor .............158,160 Semote Cantral .. 160,223 Sensifive ....156,159,160 esistance Type ........ 160 Desistance
Substitution Box ...............188

## RESISTORS



| Sander $\quad$..........272-274,285Sows $\quad . . . . . . . .272-274,276$,$279.281,290$ |  |
| :---: | :---: |
| Scratch Remover <br> KII $\qquad$ 175 |  |
| Screen, |  |
| Sensor, Humidity ........ 141 |  |
| Shafts, Cantrol ............. 122 |  |
|  |  |
| Sheets, Polytyrene | tyrene ............... 140 |
| Shelf |  |
| Accessories | sories ............. 285 |
| Slenal |  |
| $\begin{aligned} & \text { Iniector ............................. } 180 \\ & \text { Trocer ........... } 190 \end{aligned}$ |  |
|  |  |
| SADDE |  |
| Drawer | er .................... 102 |
| File ..................291,293 |  |
| Prolector ............... 293 |  |
| Rul . ................288.289 |  |
| Viewers ...........291,293 |  |
| Slider .......................... 102 |  |
| SOCKETS |  |
| Auto ....................... 276 |  |
| Cable ..............164,165 |  |
| Crystol ................... 141 |  |
| Miniature | ture ................ 164 |
| Panel ................... 165 |  |
| Pilot Light .............. 163 |  |
| Printad Circull ....... 164 |  |
| Translstor ............... 164 |  |
| Tube ................164,178 |  |
| SOLDER |  |
| ..................... 283 |  |
| Alds ................. 282,283 |  |
| Flux ........................ 283 |  |
| Guns .................282,283 |  |
| Irons .................282,283 |  |
| Kits -..................... 282 |  |



## SPEAKERS

## TAPE RECORDING

EQUIPMENT
Cloth ....................... 82
Auto Rear Seat ........ 235 Hi-FI ....27,31,32,34,35, 37-50,54-57,61,63 Minialure ............50,234 Outdoar .............246,248 Pillow
Public
....234,244
246-248,253
Replocement ......234, 269 Spectroscepe ....................297 Spindles
45 RPM ............71,73.99 Splicers, Tape ........92,178 Spray Enamet …............256 Sprayer,
Electric .....272,273,278 Sprays,
Square,

## Combination ........... 279 Standoff Insulotars . Staples

STEREO

|  | Picture TubeBrightener ........... 265 |
| :---: | :---: |
| Accessorios $\begin{array}{r}\text {....26, 32,97 } \\ 269,307\end{array}$ |  |
| Adapters .......24,35,70, | Reluvenotor 191,197,265 |
| 93,97,101 | Remato Control .......169 |
| Add on | Coupler ...........265,268 |
| Systems ......37,39,307 | Sockets ............265,268 |
| Ampliflers $\ldots . .2,6,20-24$, | Tables .................... 263 |
| Amplifiors | Twin-Leod |
| 231,233 | Wire .............177,265 |
| Earphones .......168,170 | Teloverter, FM ........... 257 |
|  | TERMENAL STRIPS |
| Kits .........39.66-70,230, | 138,165 |
|  | Kits .......................178 |
| Multiplex <br> Adaptor $\qquad$ | TEST EQUIPMENT |
|  | 180,181,183,186-198,238 |
| Selector ...w.96,97,269 | Kits $\ldots . .180,183,186-190$, |
| Phonographs ......83,89 |  |
| Preomplifiers ..10,22-29, $68,77,230,231,233$ | Leads................ $.172 ~$Probes $\ldots . .186,187,189$,$192-195,198$ |
| Recelvers ....20,22,23,27 |  |
| Record Changers ..71-7 | Bottery .............183,195 |
| Remote | Circult ....................172 |
| Control .. 18,26,70,75, | Thermistors ...............117 |
|  | Thermomefers .....195,287 |
| Speaker | Time Switches -.......... 137 |
| Systems .. 36, 39,41,43; $60,61,307$ | Timers ... 157,191,238,293 |
| Tuners ....9,21,23,25,26, | Tone Arms ...24,73,77,79, |
|  | Cantrol |
| Volume |  |
| Bolance ...........97,179 | TOOL |
| Stylt, | Accessories ...........272, |
| Cortridge .......77-79,94, | Cobinets .................. 284 |
| Stylochron .................. 103 | Holster .................... 280 |
| Stylus Inspection | Rocks ..................... 279 |
| Microscope | Sets ............277.280,287 |
| Siylus Pressure <br> Gauges $\qquad$ 73,104 | TOOLS$\begin{array}{r} 174,273,275-281 \\ 283,284,287,290 \end{array}$ |
| Sun Batteries .......li40,225 |  |
| SWITCHES | Power .............272,273 |
| Accessories ............ 157 | Touch.Ups ................. 174 |
| Automatic tight ....... 133 | Towers, IV Antenna .... 264 Tronsceivers ........211,212, 215.217 |
| Control .............121,122 |  |
| Knife ..............155,265 |  |
| Lever ..............155,156 | TRANSFORMERS |
|  | Audia ........128,130,135 Blas-Erase |
| Miniature .. $135,155,156$ |  |
| Phono $\qquad$ 101 | Blas-Erose <br> Oscillatar $\qquad$ 93 |
| Potentiometer ......... 121 | Blocking |
| Push-Button ......154-156 | Oscillator ........... 126 |
| Recr Speoker ......... 235 | Constant Voltoge .... 131 |
| Ratary .............155,156, | Driver ........129,134,135 |
|  | Fllament ...........127.129 |
| Slide ..........a........... 155 | Flyback .................. 126 |

# ELECTRO-VOICE LOW-RESONANCE SYSTEMS 

## WTTO ULTRA-COMPACT SYSTEMS DESIGNED FOR STEREO


er in size. E-V engineers have developed a series of bass speakers that provide optimum efficiency and bass-range extension - exen though enclosed in relatively small, sealed cabinets. The use of diffrection horns with treble and VHF drivers in these systems (a wide-angle cone speaker is used in the Leyton) assures extended response and wide dvnamic range over the greates: possible listening area. Only E-V brings you the all-important FUSION. All cabinets are custom-crafted of select hardicood veneers, witk lustrous handrubbed finishes to meet the most discriminating standards. Whether starting frem seratch or converting to stereo, the $E$-V
Low-Resonance systems will meet your demand for full-range superlative sound.

This system has been designed to provide the finest reproduction possible in a modest size. Employs a specially designed $12^{\prime \prime}$ super-low-frequency driver with 3 lb . magnet, treble driver, and VHF driver. Response from 35 to 19,000 cps. Complete with 2 level controls and crossover. Size: $121 / 3 \times 25 \times 14^{\prime \prime}$.

## Royal 400

14.45 Down 14.45 Down 14.45 Down Phenomenal response from the most luxurious low-resonance system available. One complete additional octave of bass is obtained from the special $18^{\prime \prime}$ woofer. Provides great power handling capacity. Full 3 -way system featuring $18^{\circ}$ woofer, $8^{\prime \prime}$ cone mid-range in totally isolated cavity, crossing over at 3500 cps into compression VHF driver with Integral diffraction horn. Response 30 cps to 19 KC. Size: $251 / 4 \times 15 \times 273 / 4{ }^{\prime \prime}$. Shpg. Wt., 103 lbs . GB-52WX Mahogany finish. . 24.45 Down. . Net 244.51 GB.53WX Walnut finish. . . . 24.45 Down. . Net 244.51 GB-54WX Limed oak finsh. 24.45 Down. . Net 244.51

Net 144.55
Net 144.55
Net 144.55


GB-62WX Mahogany linish GB-63WX Walnut finish GB-64WX Unfinished birch

The Leyton top pertormance on your bookshelf from this new modestly-priced system utilizing a special $12^{\prime \prime}$ high-compliance lowfrequency driver and matched 8 " high-frequency unit. Size: $24 \times 12$ $\times 14 \frac{1}{8^{\prime \prime}}$. Shpg. Wt., 29 lbs.
8.28 Down. .......... Net 82.81
8.28 Down . . . . . . . . . Net 8281
7.40 Down . . . . . . . Net 73.99

Net 82.81
7.40 Down . . . . . . . . Net 73.99


GB-58WX Mahogany finish GB-59WX Walnut finish GB-50WX Limed oak finish GB-51wX Unfinished birch

Esquire 200 version of the pop includes special $12^{\prime \prime}$ low Regal 111 driver which crosses ower equency driver which crosses over at 1000 cps into an 8 " cone driver. From 3500 cps, a VHF compression driver with diffraction horn is used. Frequency response from 40 cps to 19 KC . 8 ohms impedance. Size: $131 / 2 \times 25 \times 14^{\prime \prime}$. Shpg. Wt., 32 lbs.
10.93 Down . . . . . . . . . . Net 109.27
10.93 Down . . . . . . . . . Net 109.27
10.93 Down . . . . . . . Net 109.51
10.93 Down
9.75 Down

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Before filling out amounts see EASY PAY PLAN SCHEDULE and example. Figure your sums first on separate paper to avold errors. USE INK. DO NOT ERASE OR CROSS OUT

NOTICE TO THE BUYER: 1. Do not sign this agreement before you read it or if It contains any blank space. 2. You are entitled to a completely filled in copy of this agreement. 3. Under the law, you have the right to pay off in advance the full amount due and under certain conditions to obtain a partial refund of the credit service charge.

## LAFAYETTE RADIO CORPORATION (SELLER) <br> 165-08 LIBERTY AVE., JAMAICA 33, N. Y.

sells and buyer purchases merchandise as described on reverse side hereof to be kept in good repair and unencumbered at buyer's stated address. Seller shall retain title to and right to possession of merchandise until fully paid. Upon default of any payment or payments seller may declare entire unpaid balance due at once and may also repossess merchandise retaining previous payments as compensation for the use thereof. If proceeds of resale of merchandise are insulficient to cover buyer's obligation buyer will pay the deficiency to seller; if proceeds result in overage, seller will pay such overage to buyer. Payments will be made to the place and/or to any party designated by the seller in writing.

Account Number
Buyer's Copy Mailed-Date
By


Lafayette radio Corporation (SEller) buyen retail installment Contract

"EASY PAY-PLAN" PAYMENT SCHEDULE

| If Unpaid Balance is | Credif Service Charge | Monthly Payment | If Unpald Balance is | Credit Service Charge | Monthiy Payment | If Unpold Bolance is | Credil Service Charge | Monthly Parment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $15.00-25.00$ | 2.50 | 5.00 | 100.01-110.00 | 11.00 | 10.00 | 250.01-275.00 | 27.50 | 17.00 |
| $25.01-30.00$ | 3.00 | 5.00 | 110.01-120.00 | 12.00 | 10.00 | $275.01-300.00$ | 30.00 | 19.00 |
| $30.01-35.00$ | 3.50 | 5.00 | 120.01-130.00 | 13.00 | 10.00 | $300.01-350.00$ | 35.00 | 21.00 |
| $35.01-40.00$ | 4.00 | 5.00 | 130.01-140.00 | 14.00 | 11.00 | 350.01-400.00 | 40.00 | 24.00 |
| $40.01-50.00$ | 5.00 | 5.00 | 140.01-150.00 | 15.00 | 12.00 | 400.01-450.00 | 45.00 | 27.00 |
| $50.01-60.00$ | 6.00 | 6.00 | 150.01-160.00 | 16.00 | 12.00 | 450.01-500.00 | 50.00 | 30.00 |
| $60.01-70.00$ | 7.00 | 7.00 | 160.01-180.00 | 18.00 | 13.00 | On orders over $\$ 500.00$, send down payment of $10 \%$ or more Payments and credit serviçe charge will be in proportion to amounts shown on schedule. |  |  |
| $70.0 .1-80.00$ | 8.00 | 7.00 | 180.01-200.00 | 20.00 | 14.00 |  |  |  |
| $80.01-90.00$ | 9.00 | 8.00 | 200.01-225.00 | 22.50 | 15.00 |  |  |  |
| $90.01-100.00$ | 10.00 | 9.00 | 225.01-250.00 | 25.00 | 16.00 |  |  |  |

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Printed in U.S.A.

## MINIMUM ORDER $\$ 20.00$ TOTAL CASH PRICE DOWN PAYMENT 10\% OR MORE. MINIMUM $\$ 5$

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Before filling out amounts see EASY PAY PLAN SCHEDULE and example. Figure your sums first on separate paper to avoid eprors. USE INK. DO NOT ERASE OR CROSS OUT.

NOYICE TO THE BUYER: 1. Do not sign this agreement before you read it or if it contains any blank space. 2. You are entitled to a completely filled in copy of this agreement. 3. Under the law, you have the right to pay off in advance the full amount due and under certain conditions to obtain a partiol refund of the credit service charge.

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Buyer's Copy Mailed-Date By

## (Please Print)

Name
Present
Home Address
City Zone__State
How Long Ât
This Address
Telephone

To fill in spaces below correctly refer to EASY PAY PLAN Schedule on this sheet and note example.

1. Total Cash Price*
2. Sales Tax (if any)
3. Total (items $1+2$ )
4. Down Payment
( $10 \%$ or more) $\$ 5$. Min.
5. Unpaid Balance
(item 3 minus item 4)
6. Credit Service Charge
(See EASY PA Y Schedule)
7. EASY PAY BALANCE (Add items $5+6$ )
Total EASY PAY Price
(Add items 3+6)
EASY PAY ORDERS SENT SHIPPING
CHARGES COLLECT. DO NOT INCLUDE SHIPPING CHARGES.

## EXAMPLE

If Item (5) Unpaid
Balance
$=106.50$ Item (6) Credit Service Charge $=11.00$ Item (7) EASY
PAY Balance $=117.50$ Your Monthly Payment
(See Schedule) is 10.00 You will pay $\$ 10.00$ for 11 months or 110.00 And your EINAL Monthly payment will be $\quad 7.50$

RETAIL INSTALLMENT CONTRACT

"EASY PAY-PLAN" PAYMENT SCHEDULE


For purpose of receiving credit for above EASY PAY PLAN purchase, the buyer makes the following representation


# LAFAYETTE RADIO <br>  World's Faremost Sukplier of Electronic Campanents <br> 165-08 LIBERTY AVENUE - JAMAICA 33, NEW YORK 




[^0]:    - DC applied to all preamplifier and tone controf tube heaters for hum-free operation plan equalization on phono inputs - NARTB tape equalization on tape head inputs individual blas and balance con. trols Hum balance Control Excellent DC power supply regulation provided by silicon diodes Total of 9 tubes, plus 3 silicon diodes-uses premlum 6CW5/EL86 output tubes.

[^1]:    PK-157
    Net 2.45
    PK-158-Sapphire 4 replacement needle...... Net 69

[^2]:    

[^3]:    INDUSTRIAL USERS－WRITE FOR QUOTATIONS ON QUANTITY ORDERS

[^4]:    Page 148

[^5]:    WORLD'S FOREMOST SUPPLIER OF ELECTRONIC COMPONENTS

[^6]:    DEPENO ON LAFAYETTE FOR EVERYTHING IN RADID, TV \& INOUSTRIAL ELECTRONICS

[^7]:    Fow whi find the comploto listing of noition and lampi to fit those batem-
    see Inden.

[^8]:    Page 168

[^9]:    is available on lafayette's easy payment p

[^10]:    One simple unit provides the cure to any defective picfure tube in ony IV set. Works on electrostotic or electromognotic focus picture tubes in series or poralled-wired filaon electrostotic or electromognetic ocus picture tubes in series or poralle
    ment iv zols. Corrects for dozens of picture tube foults. Shpg. wh., 1 lb.
    75.268

    -Net 3.23

