

INSTRUCTIONS for INSTALLATION and OPERATION of

5U 5P

Grunow Radio

MODELS 587-589-599 — CHASSIS 5U-5U-5P

Five Tube Superheterodyne Broadcast and Short Wave Receiver with Teledial

GENERAL HOUSEHOLD UTILITIES COMPANY

Form 38674

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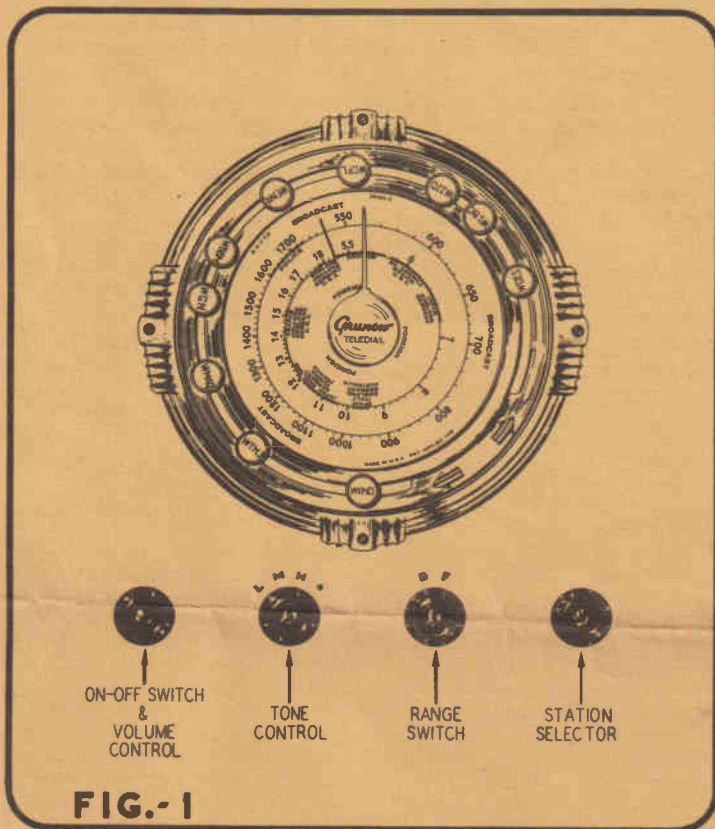


FIG. 1

DESCRIPTION

Frequency Range. This receiver covers the Broadcast and Police Band, 550 to 1750 kilocycles, and the Short Wave Band, 5.5 megacycles to 18 megacycles. (A megacycle equals 1000 kilocycles).

Tube Complement. The tubes used in this receiver and their functions are as follows: 6A7 1st Detector and Oscillator, 6D6 I.F. Amplifier, 75 2nd Detector, Automatic Volume Control and Audio Amplifier, 42 Power Output and 80 Rectifier. See Fig. 2 for locations.

Power Supply. This receiver is designed for operation on a line voltage of 105 to 125 volts, 50-60 cycles A.C. This model is also available for power supply of 105 to 125 volts, 25 to 50 cycles A.C. for use in localities having this type of power service.

Caution. If there is any doubt concerning your power supply, consult your Grunow dealer or the local power company.

Power Consumption. 50 watts.

INSTALLATION

Preliminary. After unpacking the receiver, refer to Fig. 2 and note that the tubes are firmly inserted in their proper sockets and the grid clips are in place.

Antenna. An outdoor Antenna about fifty feet in length, including lead-in, erected as high as possible in a location free from the shielding effect of nearby buildings and electric power lines, will give best results. The Antenna lead-in wire should be tightly connected and taped to the *Blue* Antenna wire (Fig. 2), leading from the chassis.

Caution. Under no circumstances should a so-called "light-socket Antenna" be used with this receiver as it may damage the receiver or cause fire.

Ground. It is important that a good ground connection be used. As a general rule, cold water pipes make good grounds.

The Black wire (Fig. 2) is the ground lead and should be tightly connected and taped to the ground lead.

OPERATION

1. **Teledial.** The Teledial is a Grunow feature that enables one to silently tune the receiver to any one of ten pre-selected stations with accuracy, speed and ease. Tuning is accomplished by pushing in the button of the desired station with the finger and at the same time turning the dial either right or left toward the bottom of the dial—a click is heard and the station is tuned in.

Instructions for setting up your favorite stations on the Teledial are explained in a later paragraph.

2. **Switch and Volume Control.** Turn this knob slightly to the right from the off position until a click is heard and the dial becomes illuminated. Further rotation increases volume. Allow about 30 seconds for the tubes to heat up.

3. **Range Switch.** The frequency range in which the receiver is to be operated is controlled by this switch. To operate the receiver on Broadcast—turn the knob to the left (B) and use the outer section of the dial for tuning. Turning the knob to the right (F) allows the receiver to be used in the Short-Wave (Foreign) position and the inner section of the dial should be used for tuning.

4. **Tone Control.** This knob operates a 4 position switch—in number one position, left (L), the low notes of the musical range are emphasized. Number two (M) position is normal or medium, number three (H) emphasizes the high notes, and when turned to number four (●) position the silencing effect of the Teledial is cut out.

5. **Station Selector.** To tune in a station on the Broadcast Band (not using the Teledial) turn the range switch to the left (B), and the volume control to the right. Rotate the Station Selector knob slowly until a station is heard, and then decrease the volume to somewhat below the desired intensity. Then adjust the station selector knob until the signal is tuned in at its clearest and strongest point. The volume control may then be readjusted to give the desired volume.

To tune in a station on the Short Wave Band, turn the range switch to the right (F) and proceed the same as tuning on the Broadcast Band. It is important to turn the station selector knob very slowly as it is possible to pass over a short wave station signal without realizing it.

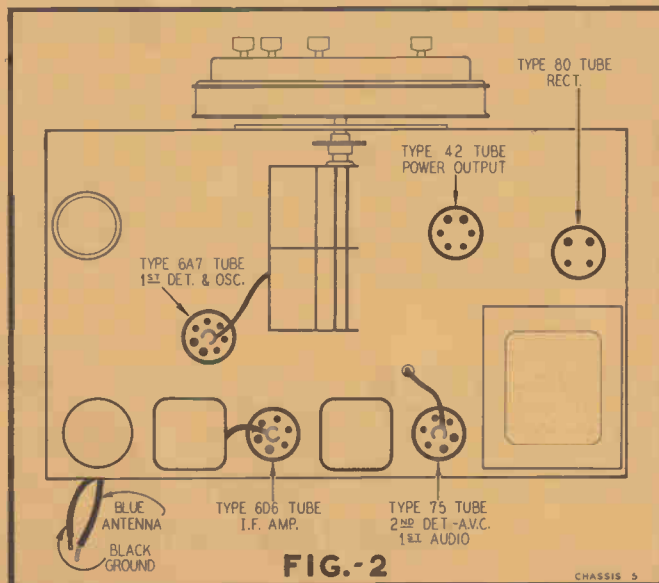
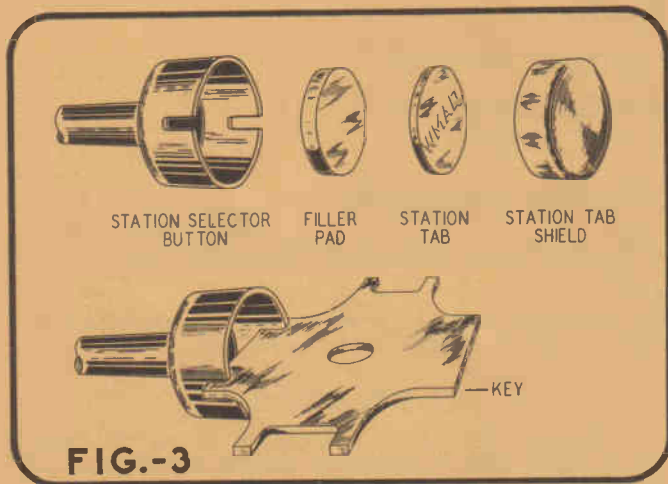


FIG. 2

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INSTRUCTIONS FOR SETTING UP YOUR FAVORITE STATIONS ON THE TELEDIAL

The Teledial is an automatic device to assist the user in rapidly locating and tuning in favorite stations with silence (no noise between stations). Tuning is accomplished by setting up a button in the circular slot of the rotatable section of the dial at the exact position in which an accurately tuned station is located. The Button is clamped at this position so that it will act as a guide or index pin and when the station represented by this button is desired—the button is pushed in and turned to the bottom of the dial where the projection of the button falls into a recess (stop position) indicating the position in which this pre-selected station will be properly tuned in.

The Station Selector Button is held in place on the rotatable section of the dial by a screw clamp built into each button assembly. This clamp may be loosened or tightened by turning the head of the button to the left or right respectively with the Teledial Key provided for this purpose. (See Fig. 3).

Only the most used broadcast stations (your favorites) should be set up. In some cases you may find that two of your favorite stations will be so close together around the dial that it will be impossible to set up both of them. In this case it will be necessary to choose between the two as to which one you will set up.

The proper procedure in setting up the Teledial is as follows:

1. Turn the receiver on and allow it to be in operation for about ten minutes before setting the Teledial Buttons in position.
2. Turn the Range Switch knob to the broadcast position (B) and the Tone Control knob to number four position (●). It is necessary to have the Tone Control on the dot (●) position when setting up the Station Selector Buttons so as to prevent the receiver becoming silent when a button is pushed in.
3. Make a list of the favorite stations (10 maximum) that you wish to set up on the Teledial in the order of their frequency (550 to 1500 K.C.).
4. Loosen the Teledial Buttons and distribute them over the dial in the approximate position of the stations you wish to receive.
5. Tune in the station of the lowest frequency on the list and slide the loosened Teledial Button into place (stop position) at the bottom of the dial. You will note that when the station is tuned in the Button will be at the bottom of the dial, directly under the dial pointer—the pointer will point to the approximate frequency of the station. Figure 1 shows a typical set-up of the stations in the Chicago area. Station "WIND" is set in the But-

ton at the bottom of the dial and the dial pointer points to the station frequency (560 K.C.).

6. Hold the Button in the "pushed in" position and adjust the station selector knob until the signal is tuned in at its clearest and strongest point. Now still holding the button in, firmly tighten the button in this exact position with the Teledial Key and proceed on thru the entire list of favorite stations in a like manner.

7. Select from the Grunow Teledial Station List as supplied with each Teledial Receiver, a Station Tab having the Call Letters of the stations set up on the dial.

8. Push out the Station Tab from the list with your fingers and insert it in the Teledial Button (See Fig. 3) with the Station Call Letters reading in such a way as to be right side up when turned to the bottom of the dial (See Fig. 1). Now insert the celluloid Station Tab Shield, pushing it firmly into the button to hold the tab.

9. If, for any reason, any of the buttons should happen to shift out of their proper position, due to long use or being improperly tightened when originally set up, or if you wish to change a station, the buttons may easily be readjusted by loosening the button head with the Teledial Key and readjusting the button as explained in paragraphs 3, 4 and 5 above.

All receivers have a tendency to shift calibration very slightly over a period of time and when new tubes are installed. However this "shift" may easily be compensated for in a few minutes by readjusting the buttons as mentioned above.

All Grunow receivers using Teledial have been especially designed to reduce this "shift" to a minimum throughout the life of the receiver.

MAINTENANCE

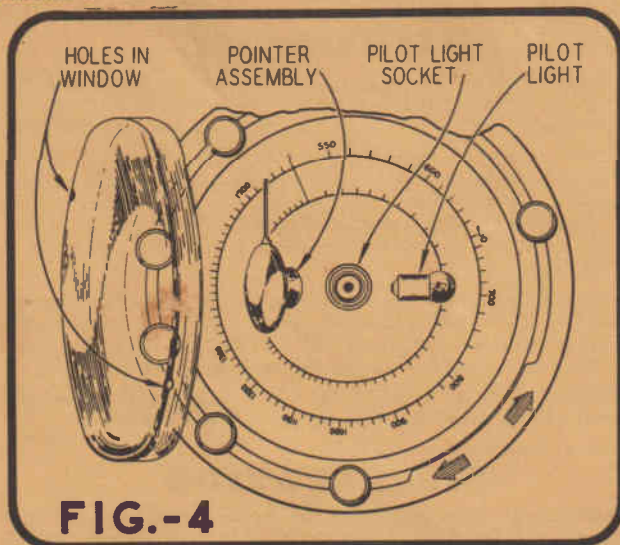
PILOT LIGHT. The Pilot Light (Mazda 51-6.8V) is of the Bayonet Base Type and is located directly behind the Dial Pointer (Fig. 4). If it becomes necessary to replace the light, it may be removed as follows:

1. The Pyralin Window over the dial may be removed by inserting two pointed objects, such as sharpened pencils, through the small holes in the edge of the window and lifting outward.

2. Remove the Dial Pointer by pulling outward. This will expose the Pilot Light, which may be removed for replacement.

The tubes should be checked occasionally, either by taking them out and having them tested by your Grunow dealer, or by obtaining a set of new tubes, inserting them one at a time, noting any difference in performance.

Periodic inspection of the antenna and ground is recommended, to be certain that all joints are clean and tight and that the antenna is well insulated at all points.



WARRANTY

GENERAL HOUSEHOLD UTILITIES COMPANY warrants each new radio product manufactured by it to be free from defective material and workmanship and agrees to remedy any such defect or to furnish a new part in exchange for any part of any unit of its manufacture which under normal installation, use and service, discloses such defect, provided the unit is returned to

our authorized distributor from whom purchased, intact, for our examination, with all transportation charges prepaid within ninety days from the date of sale to original purchaser and provided that such examination discloses, in our judgment that it is defective. This warranty is in effect only when the warranty card packed with this receiver has been properly filled out and returned to

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