



the hallicrafters co.



Figure 1. Hallicrafters Model 5X-140

SECTION I GENERAL INFORMATION

The new Hallicrafters Model SX-140 is a precision built, highly sensitive, communications receiver providing coverage within the frequency range of 3.5 megacycles to 54 megacycles. For ease and flexibility of operation, a single tuning control is provided which covers the easy-to-read slide-rule dial specifically calibrated for the 80, 40, 20, 15, 10 and 6 meter bands. Five tubes plus two silicon rectifiers are employed in the latest superheterodyne circuit and provision is made for the reception of amplitude modulation (AM), single-sideband (SSB), and continuous wave (CW) signals over the entire tuning range.

For control of selectivity, a regenerative intermediate-frequency stage is employed. This control of regeneration also provides a boost in sensitivity to bring in weak or distant stations that would ordinarily be lost in the background noise.

A carrier level meter provides an aid for accurate tuning and a means of determining the relative strength of received signals.

The alignment procedure for the receiver has been greatly simplified with the use of a built-in crystal oscillator circuit to generate the required signals for alignment. A 1650-KC crystal (not supplied), plugged into the crystal calibrator socket, will permit the IF transformers to be aligned with the use of the Carrier Level meter as an output indicator.

Other special features include: auxiliary

switching, controlling an antenna changeover relay, turning on the transmitter, or shorting the speaker voice coil during transmitting (with the FUNCTION control set to STANDBY). The SELECTIVITY-BFO control, with its associated circuitry, permits continuously variable selectivity on AM reception to the point where the BFO starts. Beyond this point, the circuitry permits reception of CW and upper or lower SSB signals. The pitch of a CW signal may be varied with this control. The crystal oscillator circuit utilizes a 3.5-MC crystal which permits the operator to set the low frequency ends of the 80, 40, 20, 15 and 10 meter bands and 52.5 MC on the 6 meter band.

NOTE

Careful attention should be directed to the INSTALLATION and OPERATION instructions. They have been provided to insure satisfactory operation from this Hallicrafters precision built product. The receiver has an unusually high degree of sensitivity necessary to receive weak and distant stations. Careless operation of a high sensitivity receiver may result in excessive noise or background hiss. These undesirable effects can be held to a minimum by careful adjustment of the SELEC-TIVITY, TUNING, AUDIO GAIN and RF GAIN controls as well as the proper selection and arrangement of the antenna.

SECTION II

TECHNICAL DATA

TECHNICAL SPECIFICATIONS

TUBES Five, plus two Silicon Rectifiers

HEADPHONE OUTPUT Low to medium impedance (see para. 3-6)

ANTENNA INPUT..... Single wire or any 50-75 ohms, unbalanced

POWER CONSUMPTION 47 watts

AUDIO OUTPUT IMPEDANCE 3.2 ohms

NET WEIGHT 13.5 pounds

SHIPPING WEIGHT..... 14 pounds

RECEIVER FREQUENCY COVERAGE

| BAND IN METERS | FREQUENCY RANGE | INTERMEDIATE FREQUENCY | OSCILLATOR FREQUENCY RANGE | FCC BAND LIMITS |
|-------------------|--------------------|---------------------------|----------------------------------|--------------------|
| 80 | 3.5-4.0 MC | 1650 KC | 5150-5650 KC | 3.5-4.0 MC |
| 40 | 7.0-7.3 MC | 1650 KC | 8650-8950 KC | 7.0-7.3 MC |
| 20 | 14.0-14.4 MC | 1650 KC | 15650-16050 KC | 14.0-14.35 MC |
| 15 | 21.0-21.5 MC | 1650 KC | 11325-11575 KC | 21.0-21.45 MC |
| 10 | 28.0-29.9 MC | 1650 KC | 14825-15775 KC | 28.0-29.7 MC |
| 6 | 50.0-54.0 MC | 1650 KC | 24175-26175 KC | 50.0-54.0 MC |

On some bands the frequency range of the receiver has been extended above the actual FCC band limits to include the reception of some of the special service frequencies.

The oscillator frequency on the 80, 40, and 20 meter bands is higher than the received signal by the IF frequency. On the 15 and 10 meter bands, the oscillator second harmonic is used which is higher than the received signal by the IF frequency. On the 6 meter band, the oscillator second harmonic is used which is lower than the received signal by the IF frequency.

SECTION III

INSTALLATION

3-1. UNPACKING

After unpacking the receiver, examine it closely for damage which may have occurred in transit. Should any sign of damage be apparent, file a claim immediately with the carrier stating the extent of damage. Carefully check all shipping labels and tags for instructions before removing or destroying them.

3-2. LOCATION

The receiver is equipped with rubber mounting feet for table or shelf mounting. When locating the receiver, avoid excessively warm locations such as those near radiators and heating vents. Allow at least one inch of clearance between the back of the receiver and the wall for proper ventilation.

3-3. POWER SOURCE

The SX-140 Receiver is designed to operate from a 105-125 volt, 60 cycle AC power source. Power consumption is 47 watts.

NOTE

If in doubt about your power source, contact your local power company prior to inserting the power cord into an AC power outlet. Connecting the receiver to the wrong power source may cause

extensive damage to the unit and costly repairs.

3-4. ANTENNAS

The RF input of the receiver is designed for operation from either a single-wire antenna (fig. 2), a half-wave doublet or other tuned antenna with transmission line impedances from 50 to 75 ohms (fig. 3 and 4.). Antenna connections are made to a two-terminal strip at the rear of the receiver marked A (antenna) and G (chassis ground).

The single wire antenna (fig. 2) may be used in an area where antenna space is limited. When using this antenna, a ground lead from terminal G to a water pipe or other earth ground will improve reception.

For the best performance, however, a co-axial-fed dipole, tuned to the center of the desired band, is the recommended type of antenna to be used (fig. 3). The impedance of this antenna is approximately 75 ohms. When using this antenna, the center conductor of the coax is connected to terminal A and the outer conductor (braid shield) is connected to terminal G.

For further information regarding antennas, refer to the "A.R.R.L. Antenna Book", published by the American Radio Relay League, West Hartford, Conn., U.S.A.

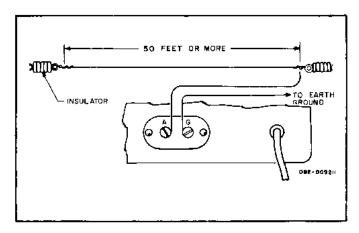


Figure 2. Single Wire Antenna.

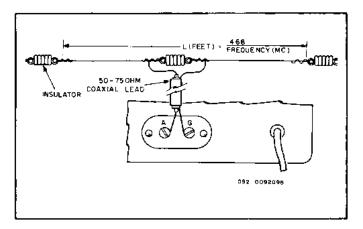


Figure 3. Dipole Antenna Using Coaxial Lead-in.

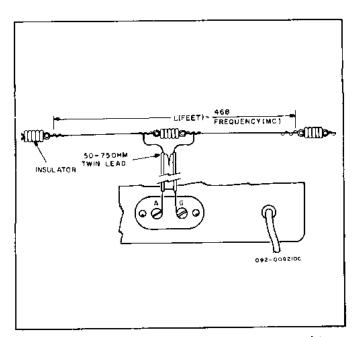


Figure 4. Dipole Antenna Using Twin Lead-in.

3-5. SPEAKER CONNECTION

The speaker terminal board is marked SPKR and GND. Internally, the hot lead from the output transformer is connected through the PHONES jack (J1) to the SPKR terminal; the other

transformer lead is connected to chassis ground.

3-6. HEADPHONES

The headphone jack, marked PHONES, is located on the front panel of the receiver (as seen in figure 5) and is wired to automatically disable the speaker when the headphones are plugged in. The headphone output impedance is not critical, and any commercial headphones may be used, including crystal types, as no direct current flows in the headphone circuit. For maximum headphone output, the use of low-impedance magnetic phones (50 to 1000 ohm) is recommended.

3-7. TYPICAL SYSTEM CONNECTION

A four terminal strip is provided at the rear of the chassis to connect the Receiver into a station control system (see figs. 6 and 7). With the FUNCTION switch in the STANDBY position, terminals 1 and 2 are shorted together as are terminals 3 and 4, thus providing auxiliary switching functions. Figure 6 illustrates the receiver controlling the antenna changeover relay and the station transmitter (such as the HT-40). Figure 7 illustrates the Receiver controlling the station speaker and available contacts for another auxiliary switching function.

SECTION IV

FUNCTION OF OPERATING CONTROLS

4-1. GENERAL

Each control of the receiver performs a definite function which contributes to its reception capabilities. Full appreciation of the receiver is to be expected only after becoming familiar with each of the controls and the effect each control has on the performance of the receiver.

A brief description of each control is contained in the following paragraphs (see figure 5).

4-2. FUNCTION CONTROL

The FUNCTION control, a four-position rotary switch, is used to select the desired operating condition of the receiver. Auxiliary switching functions are also controlled by this switch, refer to paragraph 3-7. Operating conditions for each switch position are as follows:

- In the OFF position, no power is applied.
- In the STANDBY position, power is applied to the receiver; however, a high negative bias is applied to the RF tube (V1A) grid to prevent the reception of signals.

- 3. In the AM position, amplitude modulated signals may be received and the AVC circuit is activated.
- 4. In the CW-SSB position, continuous wave and single-sideband signals may be received. The AVC is reduced for CW and SSB reception. The carrier level meter is disabled to prevent damage by a strong signal.

4-3. BAND SELECTOR CONTROL

The BAND SELECTOR control is a six-position rotary switch, permitting the receiver to receive signals on either the 80, 40, 20, 15, 10, or 6 meter band.

4-4. CAL-OFF CONTROL

The CAL-OFF control is a DPDT slide switch. In the CAL position, the 3.5-MC crystal marker circuit is actuated and provides beat signals at 3.5, 7.0, 14.0, 21.0, 28.0, and 52.5 MC. With the switch in the OFF position, the crystal marker circuit is disabled and no beat notes will be heard.

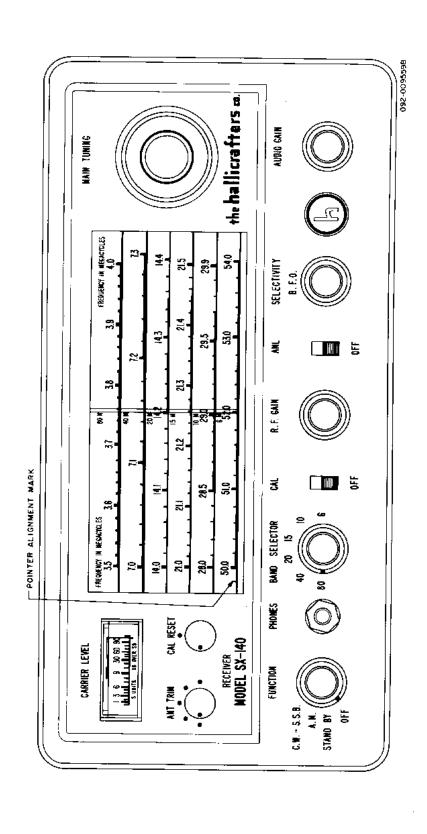


Figure 5. Front Panel.

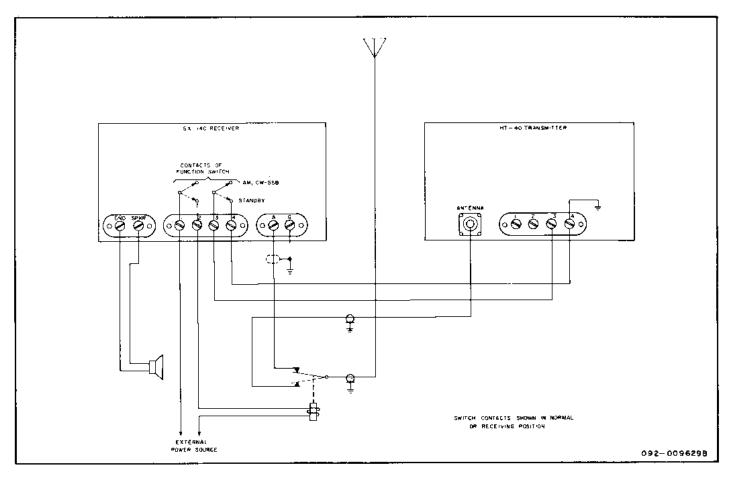


Figure 6. Station Control, Receiver Controlling Antenna Relay and Transmitter.

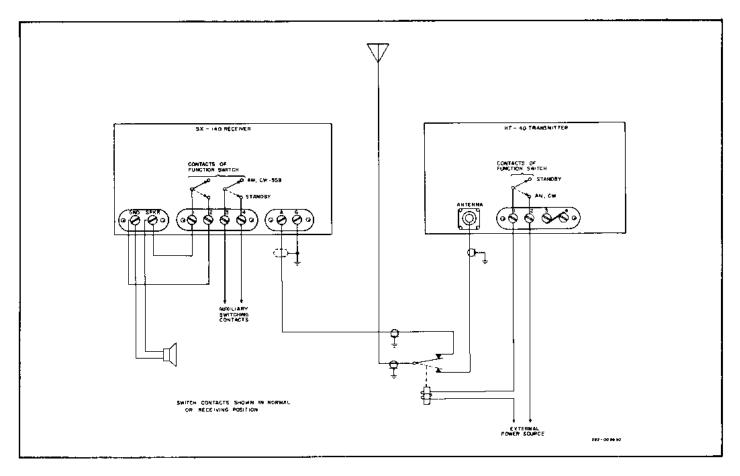


Figure 7. Station Control, Transmitter Controlling Antenna Relay.

4-5. ANL-OFF CONTROL

The ANL-OFF control is a SPDT slide switch. When the ANL-OFF switch is in the ANL position, the noise reducing circuit is actuated to improve reception of signals in the presence of high noise level, such as, ignition noise, atmospheric static, etc. When placed in the OFF position, the receiver resumes its normal reception of signals.

4-6. RF GAIN CONTROL

The RF GAIN control is a variable resistor in series with the cathode of the RF tube V1A. In the extreme counterclockwise position, maximum resistance is introduced into the cathode circuit thus developing maximum cathode bias to cut off the plate current. In the clockwise position, minimum cathode bias is developed, plate current increases, and RF gain is maximum.

4-7. AUDIO GAIN CONTROL

The AUDIO GAIN control, a variable resistor, regulates the receiver volume. Clockwise rotation increases the volume; counterclockwise rotation decreases the volume.

4-8. SELECTIVITY-BFO CONTROL

The SELECTIVITY-BFO controls the effective resistance connected between the IF tube (V3) suppressor and chassis ground. This control varies the regeneration capabilities of the IF stage up to and beyond the point of oscillation. During the reception of AM signals, the selectivity of the IF stage can be varied from approximately 8 KC (control fully counterclockwise) to approximately 2 KC (control advanced to the point just below the point of oscillation). For the reception of CW and SSB signals, advance the control to the point of oscillation or beyond. By varying the control beyond the point of oscillation, the pitch of a CW signal may be varied as desired.

4-9. MAIN TUNING CONTROL

The MAIN TUNING control is a variable capacitor which determines the oscillator frequency. It engages and moves the pointer on the slide-rule dial when tuning in stations.

4-10. CAL RESET CONTROL

The CAL RESET control is a variable capacitor connected in parallel with the MAIN TUNING capacitor to permit recalibration of the dial pointer on each band. This may be considered as an electrical pointer reset. It is used primarily in connection with the CAL-OFF switch when setting the low frequency limits of each band and the 52.5 MC point on the 6 mèter band.

4-11. ANT TRIM CONTROL

The ANT TRIM control is a variable capacitor which is connected across the secondary of the antenna coils as each coil is switched into the circuit. It maintains perfect tracking of signals on all frequencies of each band.

4-12. USE OF THE CARRIER LEVEL METER

The carrier level meter is useful only when the FUNCTION switch is set in the AM position and permits the operator to obtain a relative signal strength indication of the AM signals received. When the FUNCTION switch is set to the CW-SSB position, the carrier level meter is disabled to prevent the pointer from being abused.

In the AM position, the carrier level meter is very sensitive and will permit an excellent visual display of the relative strength of the incoming signals.

4-13. SERVICE OR OPERATIONS QUESTIONS

For any further information regarding operation or servicing of the receiver, contact The Hallicrafters dealer from which the receiver was purchased. The Hallicrafters Company maintains an extensive system of authorized service centers where any required service will be performed promptly and efficiently at a nominal charge. All Hallicrafters Authorized Service Centers display the sign shown below. For the location of the one nearest you, consult the telephone directory.



Do not make any service shipments to the factory unless instructed to do so by letter. The Hallicrafters Company will not accept the responsibility for any unauthorized shipments.

The Hallicrafters Company reserves the privilege of making revisions in current production of equipment and assumes no obligation to incorporate these revisions in earlier models.

SECTION V

RECEIVER OPERATION

5-1. STANDBY

Rotate the FUNCTION control to the STAND-BY position. In this position, power is applied to the receiver, as indicated by illumination of the tuning dial, thus allowing the receiver to warm up prior to calibration or normal operation (reception of AM, CW or SSB signals).

5-2. CALIBRATION

A special crystal oscillator circuit (with crystal) has been incorporated into the receiver to enable the operator to accurately calibrate each band. A 3.5-MC crystal inserted into the crystal socket (see fig. 8) provides a signal that will zerobeat with the local oscillator to provide a calibration marker at the low frequency edge of the 80, 40, 20, 15 and 10 meter bands and at 52.5 MC on the 6 meter band. For calibration of the receiver preset the controls as indicated:

ANT TRIM........Center of range

FUNCTION.....CW-SSB

CAL-OFF..........CAL

ANL-OFFOFF

clockwise

AUDIO GAINMaximum clockwise

BAND SELECTOR 80

MAIN TUNING 3.5 MC

SELECTIVITY-BFO. . . . Maximum clockwise

The band edge calibration points for the 80, 40, 20, 15 and 10 meter bands are 3.5, 7.0, 14.0, 21.0, and 28.0 MC respectively. These signals are

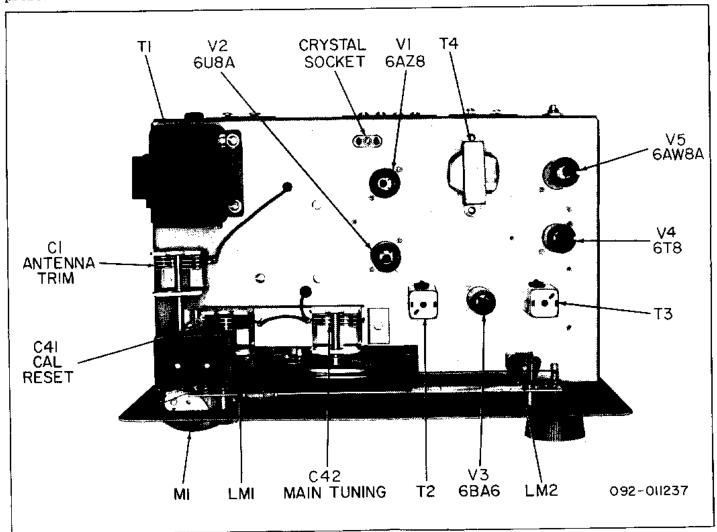


Figure 8. Top View Alignments.

available from the fundamental and even harmonics of the 3.5-MC crystal oscillator. Since no even harmonic of 3.5 MC will fall in the 6 meter band, an odd harmonic, 52.5 MC is used.

Beginning with the 80 meter band at 3.5 MC, rotate the CAL RESET control until a beat note is heard. It may be necessary to advance the RF GAIN control clockwise until the beat note is audible. Adjust the CAL RESET control to obtain a zero-beat which completes the calibration of the 80 meter band. As each band is calibrated from the 80 to the 6 meter band, it will be found that the harmonics become weaker, thus necessitating further advance of the RF GAIN control.

If on any band, during the calibration procedure, no beat note is heard with any setting of the CAL RESET control, it is assumed that this band is out of alignment and the alignment procedure should be followed (see section VI).

NOTE

Since all bands are calibrated with the CAL RESET control, only the last band calibrated is in proper calibration. Each time the receiver is switched to a different band for reception, the band calibration should be checked.

5-3. CW RECEPTION

For CW reception set the receiver controls as follows:

FUNCTION..... CW-SSB

BAND SELECTOR . . . Desired band

CAL-OFF OFF

RF GAIN Maximum clock-

wise

ANL-OFF OFF

SELECTIVITY-BFO. . Maximum clock-

wise

AUDIO GAIN..... Center of range

ANT TRIM..... For maximum background noise

CAL RESET..... Previously set

(para, 5-2)

NOTE

For practice in tuning in a CW signal. the 40 meter band is recommended as there are usually an abundance of CW stations on the air at all times of the day or night.

- Starting at the lower frequency end of the band, rotate the MAIN TUNING control until a CW signal is located. Reduce or increase the volume if necessary (see step 3). Continue tuning until the zero-beat of the signal is reached. Either side of the zero-beat point may be used for the reception of CW signals. Signal pitch may be varied to a comfortable listening level by tuning nearer to or further from the zerobeat.
- 3. Rotate the AUDIO GAIN control to maintain a comfortable listening level throughout the tuning procedure.
- Rotate the SELECTIVITY-BFO control counterclockwise to the point just above the point where the circuit drops out of oscillation. At this point, the receiver will have maximum selectivity for separating stations operating on frequencies near the frequency of the desired station. Slight readjustment of the MAIN TUNING control may be required.
- Rotate the RF GAIN control counterclockwise to reduce background noise to a minimum while maintaining an adequate listening level.
- Rock the ANT TRIM control to obtain maximum signal level.

5-4. SSB RECEPTION

The procedure for tuning in an SSB signal is identical to the above procedure for tuning a CW signal, with one important difference. Only one side of the zero-beat or zero signal point may be used for the reception of the SSB signal. When the transmitting station is operating on the lower sideband it will be necessary to use the high frequency side of the zero signal point; and conversely, when the transmitter is transmitting on the upper sideband the low frequency side of the zero-signal point must be used.

As a typical example, with controls set the same as outlined for the reception of a CW signal. rotate the MAIN TUNING knob until unintelligible speech is heard. Rotate the knob further, through zero-beat if necessary, until the speech becomes intelligible. Some stations will be intelligible on the high side of the zero-signal while others will be intelligible on the low side of the zero-signal point.

NOTE

It will be found that, on the average, the SSB stations on 40 meters will be transmitting lower sideband signals while on the 20 and 80 meter bands the stations will be transmitting on the upper sideband.

5-5. AM RECEPTION

 For AM reception, set the receiver controls as follows:

FUNCTION AM

BAND SELECTOR . . . Desired band

CAL-OFF OFF

RF GAIN Maximum clock-

wise

ANL-OFF OFF

SELECTIVITY-BFO. . Maximum counter-

clockwise

AUDIO GAIN. Maximum clock-

wise

ANT TRIM, For maximum

background noise

CAL RESET..... Previously set

(para. 5-2)

2. Rotate the MAIN TUNING control to

locate an AM signal. Reduce the volume as required (see step 3). Tune the MAIN TUNING control for maximum indication on the carrier level meter.

- 3. Rotate the AUDIO GAIN control to maintain the desired listening level throughout the tuning process.
- 4. The selectivity of the receiver may be increased by rotating the SELEC-TIVITY-BFO control clockwise. Maximum selectivity is attained at a point just below the point where the circuit begins to oscillate.
- Rotate the RF GAIN control counterclockwise to reduce background noise to a minimum while maintaining an adequate listening level.
- Rock the ANT TRIM control for maximum indication on the carrier level meter.
- To reduce excessive noise, such as atmospheric static and ignition noise, set the ANL-OFF switch to the ANL position.

SECTION VI

SERVICE DATA

6-1. TUBE AND DIAL LAMP REPLACEMENT

To gain access to the tubes and dial lamps, remove the chassis from the cabinet (see para. 6-2). The location of the tubes and dial lamps are shown in figure 8.

6-2. CHASSIS REMOVAL

The chassis may be removed from the cabinet by removing the four screws from the rear of the cabinet. When removing the chassis from the cabinet, care should be taken not to damage any of the components.

6-3. CARRIER LEVEL METER ADJUSTMENT

To adjust the carrier level meter, disconnect antenna and short the antenna terminal to the ground terminal. Set the RF GAIN maximum clockwise, and the SELECTIVITY-BFO control maximum counterclockwise. Set the ANL-OFF switch to the OFF position and turn the receiver on by rotating the FUNCTION control to the AM position, allowing approximately five minutes to warm-up. Adjust the carrier level meter control

on the rear of the chassis (see figure 9) until the carrier level meter reads "O".

6-4. DIAL CORD RESTRINGING

Remove the chassis from the cabinet to restring the dial cord (see paragraph 6-2). Rotate the tuning drum fully clockwise (tuning capacitor plates open). Care should be taken not to damage the capacitor plates. Referring to figure 10 for the stringing procedure, tie the dial cord to the dial cord spring and follow the arrows and the number sequence to restring the dial cord. Keep just enough tension on the dial cord during stringing to prevent it from slipping off the tuning drum or idler pulleys. When the other end of the dial cord is tied to the dial cord spring, the spring should be expanded about 1/4 inch.

Place the pointer on the pointer rail and engage the dial cord, but do not crimp the clips. Rotate the MAIN TUNING control fully counterclockwise to close the tuning capacitor. Keeping the tuning capacitor closed, align the pointer with the mark approximately 5/16 inch to the left of the 50-MC mark on the 6 meter band. Crimp the clips to prevent slippage. Replace the chassis in the cabinet.

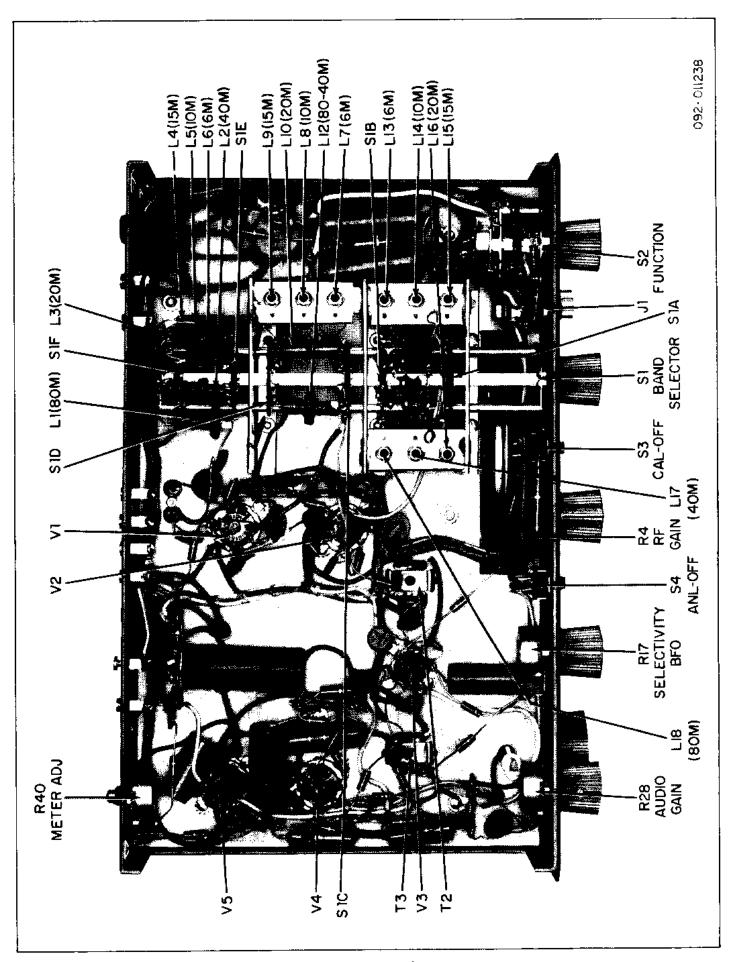


Figure 9. Bottom View Alignments.

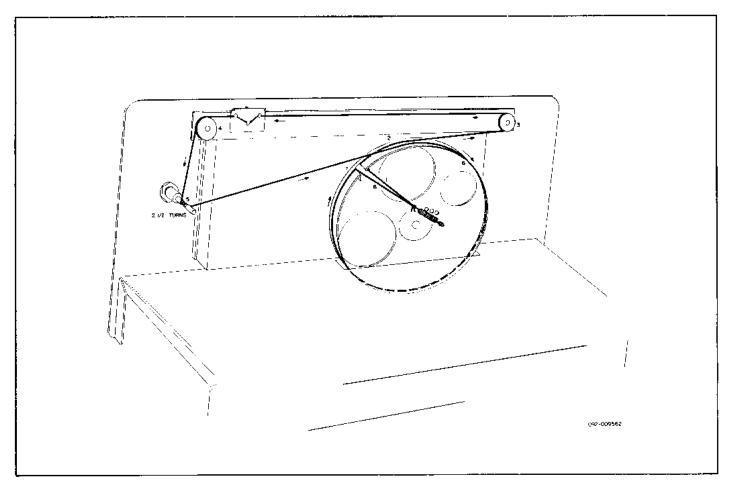


Figure 10. Dial Restringing.

TROUBLESHOOTING CHART

| Symptom | Probable Cause | Suggested Remedy |
|---|---|---|
| No reception of any signals on any band on speaker or phones but with tubes and pilot lights lighting. | V1, V2, V3, V4, V5 defective; CR2, CR3 defective. Open Audio Transformer. C52, C53, C54 shorted. Open Filter Re- sistor R46. | Replace defective tube. Replace defective dioderectifier. Replace Audio Transformer. Replace defective capacitor. Replace resistor. |
| | Any component associated with V1, V2, V3, V4, and/or V5 that may become defective and open or short the signal circuit. | Replace defective component after determining cause by referring to the voltage chart (figure 11) and the schematic diagram (figure 12), measuring voltages at various significant points, etc. |
| Reception of AM signals but no reception of intelligible CW or SSB signals. | Triode oscillator section of V2 6U8A defective. | Replace 6U8A tube. |
| No signals on any one band. | Antenna coils L1, L2, L3, L4, L5 and/or L6 open or shorted. RF coils L7, L8, L9, L10, and/or L12 shorted or open. Oscillator coils L13, L14, L15, L16, L17, and/or L18 open or shorted. | Replace defective coil. Replace defective coil. Replace defective coil. |

TROUBLESHOOTING CHART Cont.

| Symptom | Probable Cause | Suggested Remedy |
|------------------------------------|---|------------------------------|
| No signals on any one band (cont.) | Also open or shorted capacitors associated in the circuit with the above Antenna, RF, or Oscillator coils (Refer to Schematic Diagram). | Replace defective capacitor. |
| | Defective Bandswitch contact on one or more wafers. | Replace defective section. |
| Weak signals on all bands. | V1, V2, V3, V4, and/or V5 defective. | Replace defective tube. |

Numerous obscure troubles which may occur with any well-designed electrical equipment may occur in this receiver as well. Therefore, should any trouble occur that may not be readily corrected with the suggestions contained in the above trouble shooting chart, refer to service and operating questions, paragraph 4-13.

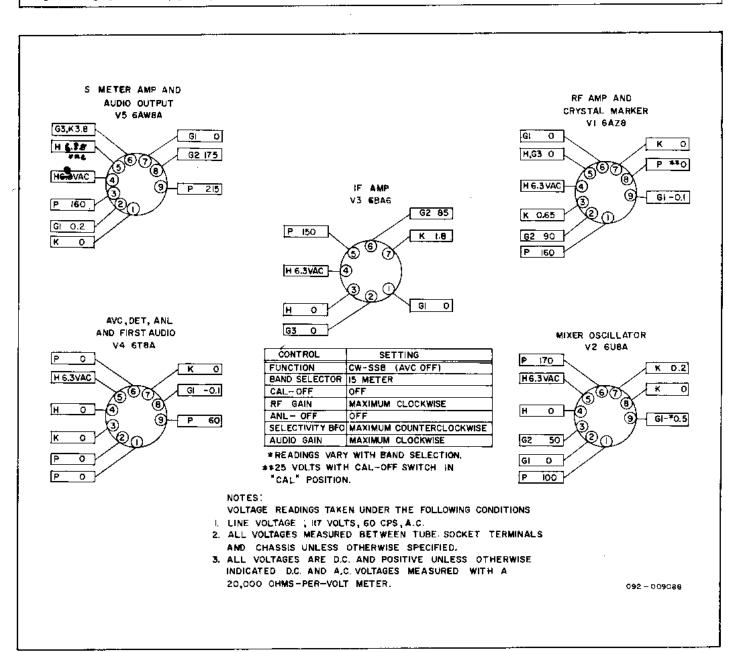


Figure 11. Voltage Chart.

SECTION VII

ALIGNMENT

7-1. GENERAL

This receiver has been carefully aligned at the factory by specially trained personnel using precision equipment. Alignment of the receiver should not be required unless the receiver has been tampered with or component parts have been replaced in the IF or oscillator stages.

Two methods of aligning the IF and oscillator stages are described in the following paragraphs of this alignment procedure. Method one requires only a non-metallic alignment tool for adjusting the slugs in the IF transformers and a 1650-KC crystal inserted into the crystal socket for IF alignment. A similar non-metallic alignment tool for adjusting the slugs in the oscillator coils and a 3.5-MC crystal inserted into the crystal socket provides an accurate method of oscillator alignment on all bands. Method two requires the same non-metallic alignment tools for adjusting the slugs in the IF transformers and oscillator coils, a signal generator, a 0.02-mfd capacitor, a 27-ohm resistor and an output meter (AC scale of a VTVM or a conventional output meter).

7-2. IF ALIGNMENT, METHOD ONE

EQUIPMENT REQUIRED

- 1. 1650-KC crystal
- 2. Non-metallic alignment tool for IF transformers

PROCEDURE

- 1. Disconnect antenna and remove the chassis from the cabinet (see para. 6-2).
- 2. Insert 1650-KC crystal in crystal socket (see fig. 8).
- 3. Set controls as follows:

ANT TRIM Center of range

CAL RESET Center of range

FUNCTION AM

BAND SELECTOR . . 10

MAIN TUNING 29.0 MC

CAL-OFF.... CAL

RF GAIN Center of range

ANL-OFF.... OFF

SELECTIVITY-BFO. . Maximum counterclockwise

AUDIO GAIN..... Any position

- Adjust RF GAIN control until carrier level meter reads approximately S9.
- 5. Adjust the slugs in the IF transformers, T3 and T2 (see figures 8 and 9), for maximum deflection on the carrier level meter; make adjustments in the following order.

NOTE: After each adjustment, bring the meter reading back to S9.

T3 secondary (top of can)

T3 primary (bottom of can)

T2 secondary (top of can)

T2 primary (bottom of can)

- 6. Repeat step 5 for final peaking of IF transformers.
- Set the CAL-OFF switch to the OFF position and remove the 1650-KC crystal.

7-3. OSCILLATOR ALIGNMENT, METHOD ONE

EQUIPMENT REQUIRED

- 1. 3.5-MC crystal
- 2. 2.2K ohm test resistor
- 3. Non-metallic alignment tool for the oscillator coils.

PROCEDURE

- 1. Insert 3.5-MC crystal in crystal socket.
- 2. Set controls as follows:

ANT TRIM Center of range

CAL RESET Center of range

FUNCTION..... CW-SSB

BAND SELECTOR . . . As indicated in

step 4

CAL-OFF.... CAL

RF GAIN Center of range

ANL-OFF..... OFF

SELECTIVITY-BFO. . Maximum clock-

wise

AUDIO GAIN..... Maximum clock-

wise

MAIN TUNING As indicated in

step 4

 Set the indicated controls and install the 2.2K ohm test resistor across the 47K ohm resistor, R34. This resistor is connected between terminal 2 on crystal socket XY1 and GND lug 3 on tube socket XV1.

NOTE

The 2.2K ohm test resistor must be removed before calibrating the oscillator on the 15, 10, and 6 meter bands.

 Slowly adjust the slug in each oscillator coil as indicated in the following table. Readjustment of the RF GAIN control will be required to maintain a comfortable listening level.

- 5. Set the RF GAIN control fully clockwise when adjusting the 15, 10 and 6 meter oscillator coils. Refer to Figure 9 for location of the oscillator coils. All oscillator coils should be adjusted for the loudest zero-beat signal.
- 6. Connect an antenna to the receiver and check each band's approximate calibration. Should any band's calibration not test correctly, you have selected an image zero beat and it will be necessary to recalibrate the band in error.
- 7. Set the CAL-OFF switch to OFF.
- 8. Connect the antenna; adjust the RF coils L7, L8, and L9 for maximum noise while readjusting the RF GAIN control as necessary to maintain a comfortable listening level.

| BAND SELECTOR | MAIN TUNING | ADJUSTMENT SLUG IN | ADJUST FOR |
|------------------|----------------|-----------------------|---------------|
| 80(OSC) | 3.5 MC | L18 | Zero-Beat |
| 40(OSC) | 7.0 MC | L17 | Same as above |
| 20(OSC) | 14.0 MC | L16 | Same as above |
| 15(OSC) | 21.0 MC | L15 | Same as above |
| 15(RF) | 21,25 MC | L9 | Maximum Noise |
| 10(OSC) | 28.0 MC | L14 | Zero-Beat |
| 10(RF) | 28.75 MC | L8 | Maximum Noise |
| 6(OSC) | 52,5 MC | L13 | Zero-Beat |
| 6(RF) | 51.5 MC | L7 | Maximum Noise |

7-4. IF ALIGNMENT, METHOD TWO

EQUIPMENT REQUIRED

- Signal generator
- 2. Output meter
- 3. 0.02 mfd capacitor
- A non-metallic alignment tool for IF transformer slugs.

PROCEDURE

- Disconnect the antenna and remove the chassis from the cabinet (see para. 6-2).
- Preset the controls as follows:

ANT TRIM Center of range Center of range CAL RESET FUNCTION CW-SSB BAND SELECTOR 10 MAIN TUNING 29.0 MC CAL-OFF OFF RF GAIN Maximum clockwise ANL-OFF OFFSELECTIVITY-BFO Maximum counterclockwise. AUDIO GAIN Maximum clockwise

- 3. Connect the high side of the signal generator through the 0.02 mfd capacitor to pin 2 of the oscillator mixer tube (V2A) and the ground side to the chassis (see figures 8 and 9).
- 4. Set the signal generator frequency to

1650 KC (1.65 MC).

- 5. Connect the output meter across the SPKR terminals with speaker connected and adjust the signal generator output (modulated 400 CPS) for adequate indication on the output meter, approximately 25 milliwatts.
- 6. Adjust IF transformer (T3 and T2) slugs for maximum indication on the output meter in the order listed below, readjusting signal generator output, if necessary, to maintain an indication on the output meter, of approximately 25 milliwatts.

T3 secondary (top of can)
T3 primary (bottom of can)
T2 secondary (top of can)
T2 primary (bottom of can)

- Repeat step 6 for final peaking of IF transformers.
- 8. Disconnect the signal generator and the 0.02 mfd capacitor.

7-5. OSCILLATOR ALIGNMENT, METHOD TWO

EQUIPMENT REQUIRED

Signal generator

- Output meter
- 3. 27-ohm resistor
- 4. A non-metallic alignment tool for the oscillator coil slugs.

PROCEDURE

1. Preset the controls as follows:

ANT TRIM

Center of range

CAL RESET

Center of range

FUNCTION

CW-SSB

BAND SELECTOR

80

MAIN TUNING

3.5 MC

CAL-OFF

OFF

RF GAIN

Maximum clock-

wise

ANL-OFF

OFF

SELECTIVITY-BFO

Maximum counter-

clockwise

AUDIO GAIN

Maximum clock-

wise

- 2. Connect the high side of the signal generator through the 27-ohm resistor to the antenna terminal and the ground side to chassis.
- 3. The output meter should still be connected across the SPKR terminals.
- Set the signal generator frequency to 3.5 MC.
- 5. Adjust the signal generator output (modulated 400 CPS) for adequate output indication on the output meter, approximately 25 milliwatts.

- counterclockwise to end of travel; rotate the slug clockwise until the 400 CPS audio signal is heard in the speaker. Rock slug slowly back and forth until maximum deflection is indicated on the output meter, and the speaker audio level is maximum.
- 7. Adjust the oscillator coils for the remaining bands by setting the controls and making adjustments as indicated in the following table. Readjust signal generator output, if necessary, to maintain a reading of approximately 25 milliwatts on the output meter.
- 8. RF Alignment on 6, 10, and 15 meters.
- 15 meters: After the oscillator alignment has been completed, set MAIN TUNING control to 21,25 MC. Tune signal generator until maximum output is noted at SPKR jack. Adjust the ANT TRIM for maximum output while slightly rocking the signal generator output back and forth. Adjust L9 for maximum output while slightly rocking signal generator output.

10 meters: Same as above; adjust L8 with main tuning and signal generator at 28.75 MC.

6 meters:

Same as above; adjust L7 with main tuning and signal gene-

rator at 51.5 MC.

| BAND | MAIN | SIG, GEN. | | |
|----------|----------|-----------|--------|---|
| SELECTOR | TUNING | FREQUENCY | ADJUST | ADJUST FOR |
| 80 | 3.5 MC | 3.5 MC | L18 | Maximum deflection on the output meter. |
| 40 | 7.0 MC | 7.0 MC | L17 | Same as above |
| 20 | 14.0 MC | 14,0 MC | L16 | Same as above |
| 15 | 21.0 MC | 21.0 MC | L15 | Same as above |
| 10 | 28.0 MC | 28.0 MC | L14 | Same as above |
| 6 | *50.0 MC | 50,0 MC | L13 | Same as above |

^{*}If the signal generator to be used is not calibrated to 50 MC, it may be set to 25 MC, thus utilizing the second harmonic which is 50 MC.

SERVICE PARTS LIST

| Ø-1 | | *T-111 | Schematic | | Hallicrafters | Schematic | | Hallicrafters |
|--|---|--|--|--|--|---------------|--|---|
| Schematic Symbol | Description | Hallicrafters Part Number | Symbol | | Part Number | Symbol | Description | Part Number |
| 5,61502 | Descripcion | 1 23 L HOMEOUT | 5,11201 | Debet tperon | 1411 1141111111 | 5,1,3501 | 2-continue | 1411 14111111111 |
| | CAPACITORS | | | *RESISTORS (cont.) | | | SWITCHES | |
| | | | -10 11 01 | | | *** | # | |
| C1 | 5.2-25.8 mmf., ANT TRIM | 048-000492 | R10, 15, 24 | | and broaks | \$1 | Switch, Rotary, BAND | 060-002388 |
| C2, 9, 43 | 47 mmf., 500V, 2%; Dura- | 482-151470 | | 47K ohm 15K ohm | 451-252473 | S2 | SELECTOR | . 000 000007 |
| C9 4 7 1 | mica | | | 1.5K ohm | 451-252153 451-252152 | S2 S3 | Switch, Rotary, FUNCTION Switch, DPDT, CAL-OFF | 060-002260 |
| C3, 4, 1, 1 | 3, 14, 15, 17, 18, 19, 47, 56 | 047-100224 | | Resistor, Var., SELEC- | 025-001944 | S4 | Switch, SPDT, ANL-OFF | 060-200967 |
| | .01 mid., 500V, 20%; Cer. Disc | 041-100224 | | TIVITY; 2K ohm | 450-001944 | 34 | Switch, BFD1, AND-OFF | 000-200401 |
| C5, 8, 27, | | | | 82 chm | 451-252820 | | | |
| 00,0,21, | .005 mfd., 500V, 20%; Cer. | 047-100442 | | 22K ohm | 451-252223 | | JACKS, PLUGS, AND SOCK | ETS |
| | Disc | V1, 134112 | | 2.2K ohm | 451-252222 | | | |
| C6, 23, 24 | .1 mid., 200V, 20%; | 499-014104 | | 270K ohm | 451-252274 | J1 | Jack, Phone | 036-100002 |
| | Moulded Paper | | | 150K ohm | 451-252154 | PL1 | Line Cord and Plug | 087-100078 |
| C10, 11, 4 | | | | Resistor, Var., AUDIO | 025-001942 | XV3 | Socket, Tube; 7 pin min. | 006-000948 |
| , , | .02 mfd., 500V, +80-20%; | 047-100242 | | GAIN; 500K ohm | | XV1, 2, 4, | | |
| | Cer. Disc | | R29, 42 | 10 megohm | 451-252106 | | Socket, Tube; 9 pin min. | 006-000947 |
| C12 | 10 mmf., 500V, 2%; Dura- | 482-131100 | R30 | 220K ohm | 451-252224 | XY1 | Socket, Crystal | 006-100346 |
| | mica | | | 10K ohm, 10%; 1W | 451-352103 | | Socket, Pilot light, left | 086-000541 |
| C16, 49 | 10 mfd., 50V; Electrolytic | 045-000724 | | 2.2 megohm | 451-252225 | | Socket, Pilot light, right | 086-000542 |
| C20, 22 | 100 mmf., 500V; 10%; Cer. | 047-201182 | | 1.8K ohm | 451-252182 | | | |
| | Disc | | | 560 ohm | 451-252561 | | | |
| C21 | 8 mfd., 250V; Electrolytic | 045-000721 | | Resistor, Var., (Carrier | 025-001943 | | TUBES AND LAMPS | |
| C25, 26 | .001 mfd., 500V, GMV; Cex | . 047-200230 | | Level Meter); 2K ohm | | | | |
| | Disc | | | 470K ohm | 451 - 252474 | V1 | 6AZ8; RF Amplifier, | 090-901417 |
| C28 | .1 mfd., 400V, 20%; Moulds | ed 499-024104 | | 180 ohm | 451 -2521 B1 | | Crystal Marker | |
| | Paper | | | 27 ohm, 10%; 1W | 451 - 352270 | V2 | 6U8A; Mixer, Oscillator | 090-901285 |
| C29 | 22 mmf., 500V, 2%; Dura- | 482-151220 | | 10 ohm | 451 - 252100 | V3 | 6BA6; IF Amplifier | 090-901112 |
| | mica | | | 820 ohm. 10%; 2W | 451-652821 | V4 | 6T8A; AVC, Det, ANL, | 090-901403 |
| C31 | 56 mmf., 500V, 2%; Dura- | 482-161560 | R47 | 100K ohm, 10%; 1W | 451-352104 | | 1st Audio Amplifier | |
| con | mica | 400 161041 | ***** | DECTE: 100 1 (0 | | V 5 | 6AW8A; Carrier Level Mete | LOBO-BOILOS |
| C33 | 330 mmf. 500V, 2%; Dura- | 482-161331 | TAIL RESE | STORS are 10%, 1/2 watt, ca | roon type. | | Amplifier, Audio Output | |
| | | | 1 | | | T 264 A | | 020 100010 |
| 026 | mica | 400 100650 094 | unless oth | erwise specified. | , | LM1, 2 | Pilot Lamp #47 | 039-100019 |
| C35 | 265 mmf., 500V, 2%; | 493-122650-334 | unless oth | erwise specified. | Q F , | LM1,2 | Pilot Lamp #47 | |
| | 265 mmf., 500V, 2%; Duramica | | unless oth | | | LM1,2 | | |
| C35 | 265 mmf., 500V, 2%; Duramtea 175 mmf., 500V, 2%; | 493-122650-334 493-121750-334 | | erwise specified. TRANSFORMERS | , | LM1, 2 | Ptlot Lamp #47 MISCELLANEOUS PARTS | i |
| C37 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica | 493-121750-334 | Ti | TRANSFORMERS Transformer, Power | 052-000853 | LM1,2 | Pilot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly | 150-900785 |
| | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; | | T1 T2,3 | TRANSFORMERS Transformer, Power Transformer, IF | 052-000853 050-000751 | LM1,2 | Pilot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer | i |
| C37 C39 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. | 493-121750-334 491-104690-83 | T1 T2,3 | TRANSFORMERS Transformer, Power | 052-000853 050-000751 | ŕ | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting | 150-900785 076-100385 |
| C37 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE- | 493-121750-334 | T1 T2,3 | TRANSFORMERS Transformer, Power Transformer, IF | 052-000853 050-000751 | CRI | Pilot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer | 150-900785 |
| C37 C39 C41 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE- SET | 493-121750-334 491-104690-83 048-000510 | T1 T2,3 | TRANSFORMERS Transformer, Power Transformer, IF | 052-000853 050-000751 | ŕ | Pilot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon | 150-900785 076-100385 019-102354 |
| C37 C39 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE- SET Capacitor, Var.; MAIN | 493-121750-334 491-104690-83 | T1 T2,3 | TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output | 052-000853 050-000751 | CRI | Pilot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon | 150-900785 076-100385 019-102354 027-000283 |
| C37 C39 C41 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE- SET | 493-121750-334 491-104690-83 048-000510 | TI T2,3 T4 | TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output | 052-000853 050-000751 055-000480 | CRI | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord | 150-900785 076-190385 019-192354 027-000283 038-000049 063-005042 083-009915 |
| C37 C39 C41 C42 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE- SET Capacitor, Var.; MAIN TUNING | 493-121750-334 491-104590-83 048-000510 048-000494 | T1 T2,3 T4 | TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS | 052-000853 050-000751 055-000460 | CRI | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate | 150-900785 076-190385 019-102354 027-000283 038-000049 083-005042 083-009915 150-000509 |
| C37 C39 C41 C42 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE- SET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Dura- | 493-121750-334 491-104690-83 048-000510 048-000494 482-151270 | T1 T2, 3 T4 L1 L2 L3 | TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (40 Meter Band Coil, Antenna (20 Meter Band | 052-000853 050-000751 055-000480 0 051-002970 0 051-002971 0 051-002972 | CRI | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL | 150-900785 076-190385 019-192354 027-000283 038-000049 063-005042 083-009915 |
| C37 C39 C41 C42 C45 C50, 51 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE- SET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Dura- nica | 493-121750-334 491-104690-83 048-000510 048-000494 482-151270 047-200752 | T1 T2, 3 T4 L1 L2 L3 L4 | TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band | 052-000853 050-000751 055-000480 0 051-002970 0 051-002971 0 051-002972 0 051-002973 | CRI | Pilot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET | 150-900785 076-100385 019-102354 027-000283 038-000049 063-005042 083-009015 150-000509 015-001564 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE- SET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Dura- mica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic | 493-121750-334 491-104690-83 048-000510 048-000494 482-151270 047-200752 045-000725 | T1 T2, 3 T4 L1 L2 L3 L4 L5 | TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (10 Met | 052-000853 050-000751 055-000460 0 051-002970 0 051-002971 0 051-002972 0 051-002973 0 051-002974 | CRI | Pilot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly City, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND | 150-900785 076-190385 019-102354 027-000283 038-000049 083-005042 083-009915 150-000509 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 250V; Electrolytic | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000725 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 | TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (10 Meter Band Coil, Antenna (10 Meter Band Coil, Antenna (10 Meter Band | 052-000853 050-000751 055-000460 051-002970 051-002971 051-002972 051-002973 051-002974 | CRI | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR | 150-900785 076-190385 019-192354 027-090283 038-090049 083-090915 150-090509 015-091564 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 150V; Electrolytic 56 mmf., N750, 5%; Cer. | 493-121750-334 491-104690-83 048-000510 048-000494 482-151270 047-200752 045-000725 | T1 T2, 3 T4 L1 L2 L3 L4 L5 L6 L7 | TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (40 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (16 Meter Band Coil, Antenna (6 Meter Band) Coil, RF (6 Meter Band) Coil, RF (6 Meter Band) | 052-000853 050-000751 055-000460 051-002970 051-002971 051-002973 051-002973 051-002975 051-002975 | CRI | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO | 150-900785 076-100385 019-102354 027-000283 038-000049 063-005042 083-009915 150-000509 015-001564 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 250V; Electrolytic | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000725 | T1 T2, 3 T4 L1 L2 L3 L4 L5 L6 L7 L8 | TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (6 Meter Band Coil, Antenna (6 Meter Band) Coil, RF (8 Meter Band) Coil, RF (10 Meter Band) | 052-000853 050-000751 055-000460 0 051-002970 0 051-002971 0 051-002972 0 051-002974 0 051-002975 0 051-003156 0 051-003157 | CRI | Pilot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO | 150-900785 076-100385 019-102354 027-000283 038-000049 063-005042 083-00915 150-000509 015-001564 015-001725 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 250V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000725 | T1 T2, 3 T4 L1 L2 L3 L4 L5 L6 L7 L8 | erwise specified. TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (16 Meter Band Coil, Antenna (16 Meter Band) Coil, Rf (6 Meter Band) Coil, RF (15 Meter Band) Coil, RF (15 Meter Band) Coil, RF (15 Meter Band) | 052-000853 050-000751 055-000460 051-002970 051-002971 051-002972 051-002974 051-002975 051-003156 051-003157 | CRI | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING | 150-900785 076-100385 019-102354 027-000283 038-000049 033-005042 083-009915 150-000509 015-001564 015-001725 015-001464 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 150V; Electrolytic 56 mmf., N750, 5%; Cer. | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000725 | T1 T2, 3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 | TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (40 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (10 Meter Band Coil, Antenna (10 Meter Band) Coil, Ref (8 Meter Band) Coil, RF (10 Meter Band) Coil, RF (20 Meter Band) Coil, RF (20 Meter Band) Coil, RF (20 Meter Band) | 052-000853 050-000751 055-000480 051-002970 051-002971 051-002972 051-002973 051-002975 051-003156 051-003157 051-003158 | CRI | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord | 150-900785 076-100385 019-102354 027-000283 038-000049 063-005042 083-00915 150-000509 015-001564 015-001725 015-001464 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 C58 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE- SET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Dura- mica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 250V; Electrolytic 40 mfd., N750, 5%; Cer. Tub. *RESISTORS | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000725 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L10 | TRANSFORMERS Transformer, Power Transformer, IF Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (40 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (16 Meter Band Coil, Antenna (16 Meter Band) Coil, RF (8 Meter Band) Coil, RF (10 Meter Band) Coil, RF (10 Meter Band) Coil, RF (120 Meter Band) Coil, RF (15 Meter Band) Coil, RF (80 Meter Band) Coil, RF (80 Meter Band) | 052-000853 050-000751 055-000480 051-002970 051-002971 051-002973 051-002974 051-002975 051-003156 051-003157 051-003158 051-002966 051-002964 | CRI | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning | 150-900785 076-100385 019-102354 027-000283 038-000049 063-005042 083-00915 150-000509 015-001564 015-001725 015-001464 015-001736 076-200397 082-000489 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE-SET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 250V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. *RESISTORS , 25, 36 | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000722 491-105560-95 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L10 | rransformer, Power Transformer, IF Transformer, IF Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (16 Meter Band Coil, Antenna (16 Meter Band) Coil, Aftenna (16 Meter Band) Coil, Rf (8 Meter Band) Coil, RF (15 Meter Band) Coil, RF (20 Meter Band) Coil, Coil, RF (30 Meter Band) Coil, Coil, RF (30 Meter Band) Coil, Coil, RF (30 Meter Band) Coil, Co | 052-000853 050-000751 055-000480 051-002970 051-002971 051-002972 051-002973 051-002975 051-003156 051-003157 051-003158 | CRI | Pilot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning Pointer, Track Assembly | 150-900785 076-190385 019-102354 027-000283 038-000049 063-005042 083-009915 150-000509 015-001564 015-001725 015-001736 076-200397 082-000489 150-000711 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 C58 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 250V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. *RESISTORS , 25, 36 1 megohm | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000722 491-105560-95 | T1 T2, 3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L10 L12 | erwise specified. TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (40 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (10 Meter Band Coil, Antenna (10 Meter Band) Coil, RF (8 Meter Band) Coil, RF (10 Meter Band) Coil, RF (20 Meter Band) Coil, RF (20 Meter Band) Coil, RF (80 Meter Band) Coil, Cocillator (6 Meter Band) | 052-000853 050-000751 055-000460 051-002970 051-002971 051-002972 051-002974 051-002974 051-003156 051-003157 051-003158 051-002966 051-002964 | CRI CR2, 3 | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning Prinker, Track Assembly Ring, Retaining | 150-900785 076-100385 019-102354 027-000283 038-000049 063-009015 150-000509 015-001564 015-001725 015-001464 015-001736 076-200397 082-000489 156-000711 076-109883 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 C58 R1, 22, 23 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE-SET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 250V; Electrolytic 40 mfd., 750V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. *RESISTORS ,25,36 1 megohm 22 ohm | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000722 491-105560-95 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L12 L13 | erwise specified. TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (40 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (16 Meter Band Coil, Antenna (16 Meter Band) Coil, RF (8 Meter Band) Coil, RF (10 Meter Band) Coil, RF (20 Meter Band) Coil, RF (20 Meter Band) Coil, RF (80 Meter Band) Coil, RF (80 Meter Band) Coil, RF (80 Meter Band) Coil, Oscillator (8 Meter Band) Coil, Oscillator (10 Meter | 052-000853 050-000751 055-000480 051-002970 051-002971 051-002973 051-002974 051-002975 051-003156 051-003157 051-003158 051-002966 051-002964 | CRI | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning Pointer, Track Assembly Ring, Retaining Carrier Level Meter | 150-900785 076-100385 019-102354 027-000283 038-000049 063-005042 083-00915 150-000509 015-001564 015-001725 015-001736 076-200397 082-000489 150-000711 076-100883 082-000492 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 C58 R1, 22, 23, R2 R3, 11 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RE- SET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Dura- mica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 250V; Electrolytic 40 mfd., 750V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. *RESISTORS ,25, 36 1 megohm 22 ohm 68 chm | 493-121750-334 491-104690-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000722 491-105560-95 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L12 L13 | erwise specified. TRANSFORMERS Transformer, Power Transformer, IF Transformer, FF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (16 Meter Band Coil, Antenna (16 Meter Band Coil, Antenna (6 Meter Band) Coil, RF (8 Meter Band) Coil, RF (10 Meter Band) Coil, RF (20 Meter Band) Coil, RF (20 Meter Band) Coil, RF (80 Meter Band) Coil, RF (80 Meter Band) Coil, Coil, RF (80 Meter Band) Coil, Cocillator (6 Meter Band) Coil, Oscillator (10 Meter Band) | 052-000853 050-000751 055-000460 051-002970 051-002972 051-002973 051-002973 051-002975 051-002975 051-003156 051-003158 051-002966 051-002964 051-002963 | CRI CR2, 3 | Pilot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning Pointer, Track Assembly Ring, Retaining Carrier Level Meter Shaft, Main Tuning | 150-900785 076-190385 019-102354 027-000283 038-000049 063-005042 083-00915 150-000509 015-001564 015-001725 015-001464 015-001736 076-200397 082-000489 150-000492 074-002451 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 C58 R1, 22, 23 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. *RESISTORS , 25, 36 1 megohm 22 ohm 68 ohm Resistor, Var., R.F. GAIN | 493-121750-334 491-104690-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000722 491-105560-95 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L12 L13 L14 L15 | rransformer, Power Transformer, IF Transformer, IF Transformer, IF Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (16 Meter Band Coil, Antenna (10 Meter Band Coil, Antenna (10 Meter Band) Coil, RF (8 Meter Band) Coil, RF (15 Meter Band) Coil, RF (20 Meter Band) Coil, RF (20 Meter Band) Coil, RF (80 Meter Band) Coil, RF (80 Meter Band) Coil, Cocillator (6 Meter Band) Coil, Oscillator (10 Meter Band) Coil, Oscillator (10 Meter Band) Coil, Oscillator (15 Meter | 052-000853 050-000751 055-000460 051-002970 051-002971 051-002972 051-002974 051-002974 051-003156 051-003157 051-003158 051-002966 051-002964 | CRI CR2, 3 | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning Pointer, Track Assembly Ring, Retaining Carrier Level Meter Shaft, Main Tuning Shield, Pilot Lamp | 150-900785 076-100385 019-102354 027-000283 038-000049 063-005042 083-000915 150-000509 015-001564 015-001725 015-001464 015-001736 076-200397 082-000489 156-000971 076-100883 082-000492 074-002451 086-100037 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 C58 R1, 22, 23 R2 R3, 11 R4 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 250V; Electrolytic 40 mfd., 750V; Electrolytic 40 mfd., 750V; Electrolytic 40 mfd., 750V; Electrolytic 40 mfd., 750V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. *RESISTORS ,25, 36 1 megohm 22 ohm 68 ohm Resistor, Var., R.F. GAIN 12K ohm | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000722 491-105560-95 451-252105 451-252200 451-252280 025-002040 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L12 L13 L14 | erwise specified. TRANSFORMERS Transformer, Power Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (40 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (16 Meter Band Coil, Antenna (10 Meter Band) Coil, Antenna (60 Meter Band) Coil, RF (80 Meter Band) Coil, RF (20 Meter Band) Coil, RF (20 Meter Band) Coil, RF (80 Meter Band) Coil, RF (80 Meter Band) Coil, Cocillator (6 Meter Band) Coil, Oscillator (10 Meter Band) Coil, Oscillator (15 Meter Band) Coil, Oscillator (15 Meter Band) Coil, Oscillator (15 Meter Band) | 052-000853 050-000751 055-000480 0 051-002970 0 051-002971 0 051-002973 0 051-002973 0 051-002974 0 051-002975 0 051-003156 0 051-003158 0 051-002966 0 051-002963 0 051-002962 | CRI CR2, 3 | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weid Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weid Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning Pointer, Track Assembly Ring, Retaining Carrier Level Meter Shaft, Main Tuning Shield, Pilot Lamp Spacer, Track | 150-900785 076-100385 019-102354 027-000283 038-000049 063-005042 083-00915 150-000509 015-001564 015-001725 015-001736 078-200397 082-000489 150-000711 076-109883 082-000492 074-002451 086-100037 073-003695 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 C58 R1, 22, 23, R2 R3, 11 R4 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. *RESISTORS , 25, 36 1 megohm 22 ohm 68 ohm Resistor, Var., R.F. GAIN | 493-121750-334 491-104690-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000722 491-105560-95 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L12 L13 L14 L15 L15 | rransformer, Power Transformer, IF Transformer, IF Transformer, IF Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (16 Meter Band Coil, Antenna (10 Meter Band Coil, Antenna (10 Meter Band) Coil, RF (8 Meter Band) Coil, RF (15 Meter Band) Coil, RF (20 Meter Band) Coil, RF (20 Meter Band) Coil, RF (80 Meter Band) Coil, RF (80 Meter Band) Coil, Cocillator (6 Meter Band) Coil, Oscillator (10 Meter Band) Coil, Oscillator (10 Meter Band) Coil, Oscillator (15 Meter | 052-000853 050-000751 055-000460 051-002970 051-002972 051-002973 051-002973 051-002975 051-002975 051-003156 051-003158 051-002966 051-002964 051-002963 | CRI CR2, 3 | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning Pointer, Track Assembly Ring, Retaining Carrier Level Meter Shaft, Main Tuning Shield, Pilot Lamp | 150-900785 076-100385 019-102354 027-000283 038-000049 063-005042 083-000915 150-000509 015-001564 015-001725 015-001464 015-001736 076-200397 082-000489 156-000971 076-100883 082-000492 074-002451 086-100037 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 C58 R1, 22, 23 R2 R3, 11 R4 R5 R6, 12 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. *RESISTORS , 25, 36 1 megohm 22 ohm 68 ohm Resistor, Var., R.F. GAIN 12K ohm 10K ohm 33K ohm | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000722 491-105560-95 451-252105 451-252220 451-252280 025-002040 451-252103 451-252333 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L12 L13 L14 L15 | rransformer, Power Transformer, Fr COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (16 Meter Band) Coil, Antenna (10 Meter Band) Coil, RF (6 Meter Band) Coil, RF (15 Meter Band) Coil, RF (20 Meter Band) Coil, RF (20 Meter Band) Coil, RF (80 Meter Band) Coil, Cocillator (6 Meter Band) Coil, Oscillator (10 Meter Band) Coil, Oscillator (20 Meter Band) | 052-000853 050-000751 055-000480 0 051-002970 0 051-002971 0 051-002973 0 051-002973 0 051-002974 0 051-002975 0 051-003156 0 051-003158 0 051-002966 0 051-002963 0 051-002962 | CRI CR2, 3 | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning Pointer, Track Assembly Ring, Retaining Carrier Level Meter Shaft, Main Tuning Shield, Pilot Lamp Spacer, Track Spring, Dial Cord Terminal Board, Antenna | 150-900785 076-100385 019-102354 027-000283 038-000049 063-005042 083-00915 150-001564 015-001725 015-001464 015-001736 076-200397 082-000489 156-00071 076-100883 082-000492 074-002451 086-100037 073-003895 075-000838 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 C58 R1, 22, 23 R2 R3, 11 R4 R5 R6, 12 R7 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 250V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. *RESISTORS ,25, 36 1 megohm 22 ohm 68 ohm Resistor, Var., R.F. GAIN 12K ohm 10K ohm 33K ohm 15K ohm, 10%, 1W | 493-121750-334 491-104690-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000722 491-105560-95 451-252105 451-25220 451-25220 451-25220 451-252103 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L12 L13 L14 L15 L16 L17 | erwise specified. TRANSFORMERS Transformer, Power Transformer, IF Transformer, Fr Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (6 Meter Band) Coil, RF (6 Meter Band) Coil, RF (10 Meter Band) Coil, RF (20 Meter Band) Coil, RF (80 Meter Band) Coil, RF (80 Meter Band) Coil, Oscillator (6 Meter Band) Coil, Oscillator (10 Meter Band) Coil, Oscillator (15 Meter Band) | 052-000853 050-000751 055-000460) 051-002970) 051-002971) 051-002973) 051-002973 051-002975 051-003156 051-003157 051-003156 051-003156 051-002964 051-002963 051-002964 | CRI CR2, 3 | Pilot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, FINCTION, BAND SELECTOR Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning Pointer, Track Assembly Ring, Retaining Carrier Level Meter Shaft, Main Tuning Shield, Pilot Lamp Spacer, Track Spring, Dial Cord | 150-900785 076-100385 019-102354 027-000283 038-000049 063-005042 083-009915 150-000509 015-001564 015-001725 015-001464 015-001736 076-200397 082-000492 074-002451 086-100037 073-003889 075-000888 088-20206 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 C58 R1, 22, 23 R2 R3, 11 R4 R5 R6, 12 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. *RESISTORS , 25, 36 1 megohm 22 ohm 68 ohm Resistor, Var., R.F. GAIN 12K ohm 10K ohm 33K ohm | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000722 491-105560-95 451-252105 451-252200 451-252280 451-252103 451-252103 451-252333 451-352153 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L12 L13 L14 L16 L17 | rransformer, Power Transformer, IF Transformer, IF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (10 Meter Band Coil, Antenna (10 Meter Band Coil, Antenna (10 Meter Band) Coil, RF (8 Meter Band) Coil, RF (10 Meter Band) Coil, RF (20 Meter Band) Coil, RF (80 Meter Band) Coil, Cocillator (6 Meter Band) Coil, Oscillator (10 Meter Band) Coil, Oscillator (10 Meter Band) Coil, Oscillator (20 Meter Band) | 052-000853 050-000751 055-000460) 051-002970) 051-002971) 051-002973) 051-002973 051-002975 051-003156 051-003157 051-003156 051-003156 051-002964 051-002963 051-002964 | CRI CR2, 3 | Ptlot Lamp #47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, R. F. GAIN, AUDIO GAIN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning Pointer, Track Assembly Ring, Retaining Carrier Level Meter Shaft, Main Tuning Shield, Pilot Lamp Spacer, Track Spring, Dial Cord Terminal Board, Antenna Terminal Board, Antenna | 150-900785 076-100385 019-102354 027-000263 038-000049 063-009015 150-000509 015-001564 015-001725 015-001725 015-001464 015-001736 076-200397 082-000489 150-000711 076-109883 082-000492 074-002451 088-100037 073-003695 075-000838 088-20206 088-002411 |
| C37 C39 C41 C42 C45 C50, 51 C52, 53 C54 C58 R1, 22, 23, R2 R3, 11 R4 R5 R6, 12 R7 R8, 14 | 265 mmf., 500V, 2%; Duramica 175 mmf., 500V, 2%; Duramica 59 mmf., 500V, ±2%; N470; Cer. Tub. Capacitor, Var.; CAL RESET Capacitor, Var.; MAIN TUNING 27 mmf., 500V, 2%; Duramica .01 mfd., 1400V, GMV; Cer Disc 40 mfd., 150V; Electrolytic 40 mfd., 250V; Electrolytic 56 mmf., N750, 5%; Cer. Tub. *RESISTORS ,25, 36 1 megohm 22 ohm 68 ohm Resistor, Var., R.F. GAIN 12K ohm 10K ohm 33K ohm 15K ohm, 10%, 1W | 493-121750-334 491-104590-83 048-000510 048-000494 482-151270 047-200752 045-000725 045-000722 491-105560-95 451-252105 451-252200 451-252280 451-252103 451-252103 451-252333 451-352153 | T1 T2,3 T4 L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L12 L13 L14 L15 L15 L14 L15 L14 | erwise specified. TRANSFORMERS Transformer, Power Transformer, IF Transformer, FF Transformer, Audio Output COILS Coil, Antenna (80 Meter Band Coil, Antenna (20 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (15 Meter Band Coil, Antenna (6 Meter Band) Coil, RF (6 Meter Band) Coil, RF (15 Meter Band) Coil, RF (20 Meter Band) Coil, RF (80 Meter Band) Coil, RF (80 Meter Band) Coil, Oscillator (6 Meter Band) Coil, Oscillator (10 Meter Band) Coil, Oscillator (20 Meter Band) Coil, Oscillator (40 Meter Band) | 052-000853 050-000751 055-000480) 051-002970) 051-002971) 051-002973) 051-002973) 051-002975 051-003156 051-003157 051-003158 051-002964 051-002964 051-002964 051-002964 | CRI CR2, 3 | Pilot Lamp *47 MISCELLANEOUS PARTS Cabinet Weld Assembly Clip, IF Transformer Mounting Diode, Silicon Rectifier, Silicon Dial Cord Dial Plate Dial Window (calibrated) Front Panel Weld Assembly Knob, ANT TRIM, CAL RESET Knob, FUNCTION, BAND SELECTOR Knob, F. GAIN, AUDIO GAN, SELECTIVITY-BFO Knob, MAIN TUNING Lock, Line Cord Pointer, Main Tuning Pointer, Track Assembly Ring, Retaining Carrier Level Meter Shaft, Main Tuning Shield, Pilot Lamp Spacer, Track Spring, Dial Cord Terminal Board, Antenna Terminal Board, 4 contact Terminal Board, Speaker | 150-900785 076-100385 019-102354 028-000049 033-000049 063-005042 083-000915 150-000509 015-001564 015-001725 015-001464 015-001736 076-200397 082-000489 150-000711 076-100883 082-000492 074-002451 088-002412 088-002412 088-002412 |