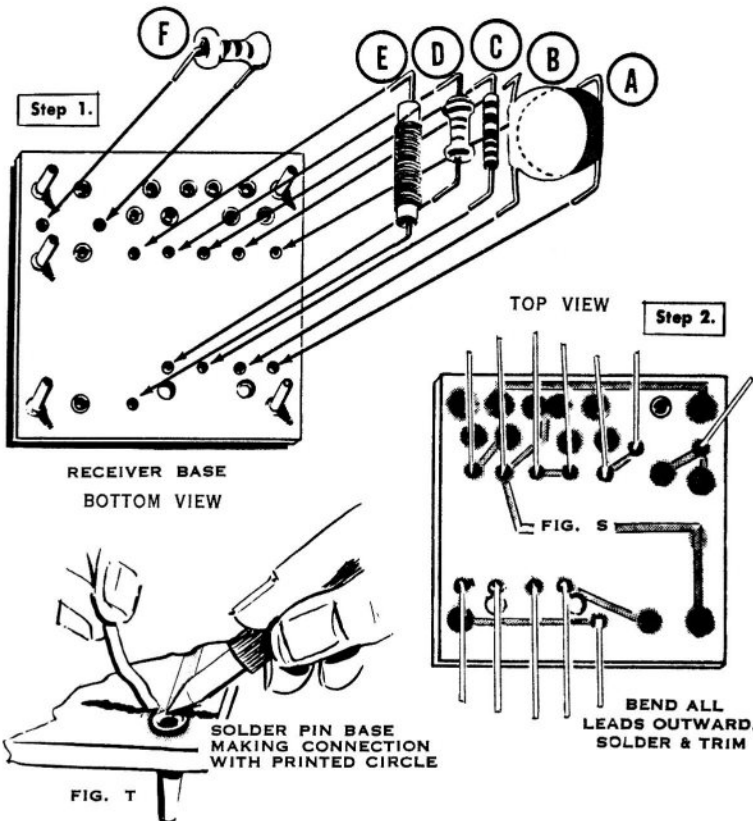


ASSEMBLY DRAWING FOR **TWIN TUBE** 27 MC RECEIVER



Instructions

The TWIN-TUBE Receiver Kit is designed for easy assembly and will perform successfully when instructions are followed carefully.

Step 1. Assemble components to Receiver Base

Bend leads so that components center between eyelets, and insert leads through eyelets. **DO NOT TRIM LEADS YET!**

Assemble components in this order:

- (1) Coupling Condenser (A)
- (2) By-Pass Condenser (B)
- (3) Grid Resistor (C)
- (4) Grid Condenser (D)
- (5) RF Choke (E)
- (6) Plate Condenser (F)

Step 2. Turn Receiver Base over, carefully holding components in place. Bend all leads outward (Fig. S) to lock components in position.

(1) Solder all leads in position following these instructions carefully. Make sure that solder joins the eyelet, component lead and printed circle under eyelet. **CAUTION:** Do not apply heat too long to the printed line, as excessive heat will break the bond between printed line and Receiver Base. Recommended soldering equipment: 35-watt (Ungar Pencil Iron). Use a good grade of small diameter 40-60 radio solder and a liquid alcohol-rosin flux.

(2) Snip off excess leads.

(3) Insert 8 Flea Clip tube connectors in proper eyelets.

(4) Solder Flea Clips in place from the top side of base, being careful not to get solder in spring grip. **CAUTION:** Inspect carefully to make certain that eyelet and Flea Clip joint are properly soldered to the printed circle under eyelet. Trim off flea clip points flush with eyelets.

(5) Place solder at base of mounting pins to secure proper connections. (Fig. T)

(6) Place solder in the 2 eyelets which will support the Tuning Coil assembly, making good connection with printed circle.

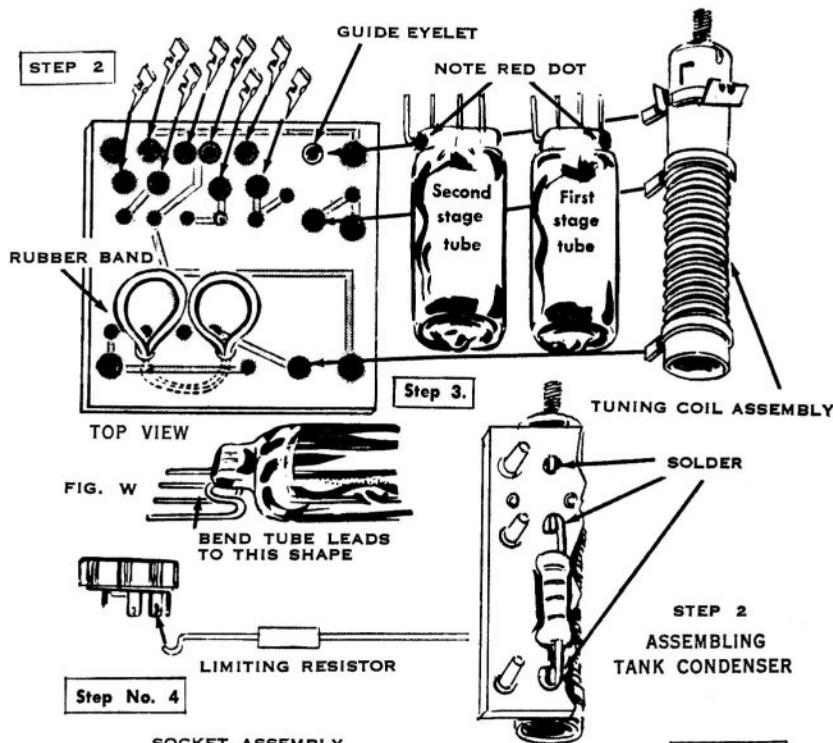
(7) Mount the Tuning Coil assembly by following these directions:

(a) Turn Receiver Base over.

(b) Touch soldering iron to the 2 eyelets. This action will heat the previously soldered joints sufficiently to allow the Tuning Coil assembly to be pressed into the 2 soldered eyelets and guide eyelets.

(8) Mount Tank Condenser by wrapping leads around Tuning Coil assembly terminals. Solder each joint. Trim off excess leads. Now solder the front Tuning Coil assembly terminal and eyelet as shown.

(9) Clean entire circuit using a good grade of commercial flux remover. Recommended substitute: Alcohol or Toluene.



Step 3. Tube Assembly.

(1) Assemble rubber band tube holder by inserting loops into two holes in base.

(2) Using small nose pliers, bend all tube leads to conform to shape shown in (Fig. W)

(3) First stage tube is assembled so that the red dot is to your right, as shown. Second stage tube should be installed so that red dot is on your left, as shown.

(4) Complete tube assembly by inserting leads through hole in Flea Clips, letting leads pass through spring grip. Snip off excess leads. **Caution:** Do not apply excessive pressure to Flea Clips.

(5) Loop rubber bands over each tube at rear.

Step No. 4 Socket Assembly.

(1) Assemble Limiting Resistor and Potentiometer as a sub-assembly by inserting crimped end of lead through hole in center lug and solder. (Do not allow too large a build-up of solder at this joint.)

(2) Assemble Potentiometer through mounting holes in base. Place nuts on mounting studs and tighten firmly. (Not too much pressure).

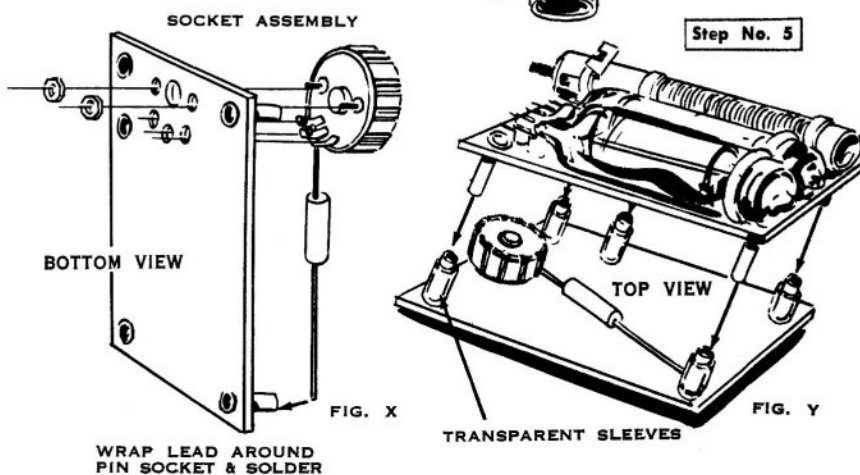
(3) Bend lead of Limiting Resistor around socket pin, (Fig. X) and solder close to base of socket pin. (Do not allow solder to build up.) Clip off excess lead.

(4) Install 5 transparent sleeves over socket pins.

Step No. 5 Installing in Model.

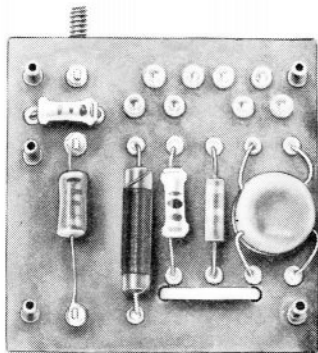
(1) Mount socket Assembly in model, following installation and operating instructions manual.

(2) Assemble Receiver Base to Socket Assembly by lining up pins with pin sockets and pressing together (Fig. Y).

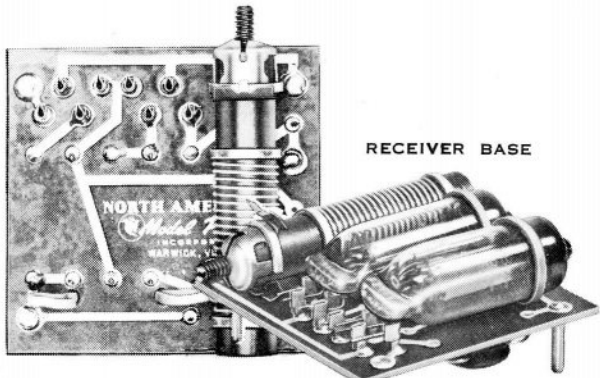


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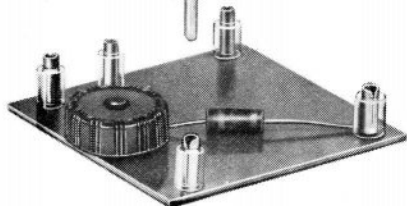
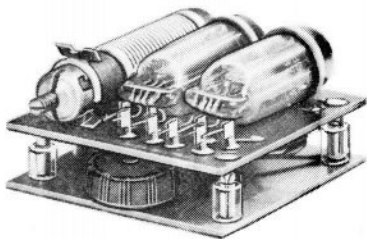
BOTTOM VIEW



TOP VIEW

RECEIVER BASE

Four views
of the
Twin-Tube
Receiver



SOCKET ASSEMBLY

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