3. Insert the replacement transformer and solder the connections. *Note:* No special precautions are necessary when mounting the new transformer. It is not necessary to twist the transformer mounting lugs of the new transformer before soldering.

VALVE SOCKET REPAIRS

Intermittent valve socket pin contacts can usually be repaired by bending the contacts so they grasp the valve pins better. A pointed tool should be used between the socket hole and the socket contact. *See Figure 8.*

REPLACING VALVE SOCKETS

The following procedure is recommended:-

1. Apply the soldering iron and brushing procedure to each socket lug as given in earlier instructions for removing components.

2. Apply the soldering iron to each lug (including grounding lug) and bend the socket lugs upward from the copper foil with a screwdriver. *See Figure 9.* Note: That on some boards, the socket lugs are folded back.

3. Rebrush the connections. This must be done while the solder is molten.

4. Cut the lugs off the socket as close as possible to the panel. Rebrush connections if necessary.

5. Apply the soldering iron to the grounding lug (centre terminal) and lift socket from the panel.

6. Clean the board as described previously.

CAUTION

When installing the new socket, it may be difficult to insert the socket lugs through the holes in the panel due to the very close tolerance. If too much pressure is applied in attempting to force the socket terminals through the holes, the panel may break. Therefore, enlarge the holes slightly so that the socket terminals can be inserted without any excessive pressure. A small reamer or penknife can be used for this purpose.

7. Insert new socket, bend over its lug and solder the connection.

REPAIRING DAMAGED WIRING

1. Should a portion of the foil be damaged or broken during removal or insertion of the socket or component, the damaged foil should be removed and piece or hook up wire fitted in its place. *See Figure 10.*

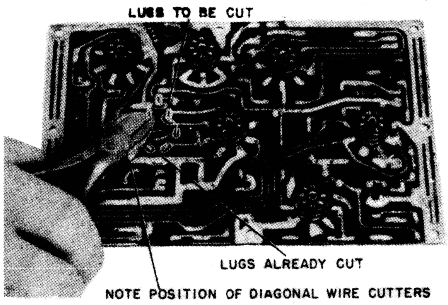

FIGURE 7. Cutting Off Lugs of Defective Transformer, to Permit Easier Removal.

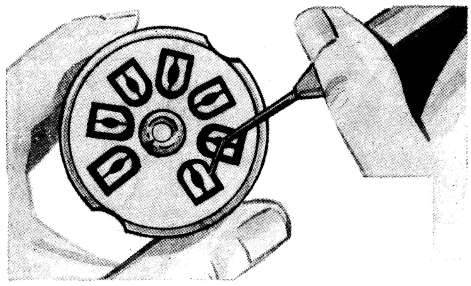

FIGURE 8. Tightening of Intermittant Valve Socket Contacts.

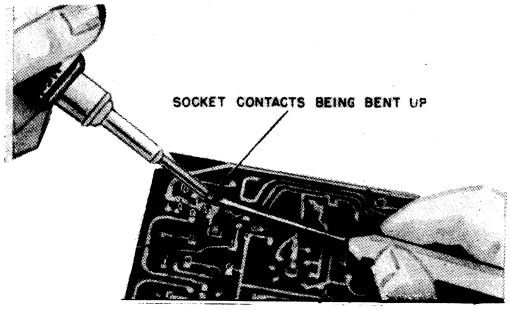

FIGURE 9. Bending Up Valve Socket Contacts to Permit Removal of Socket.

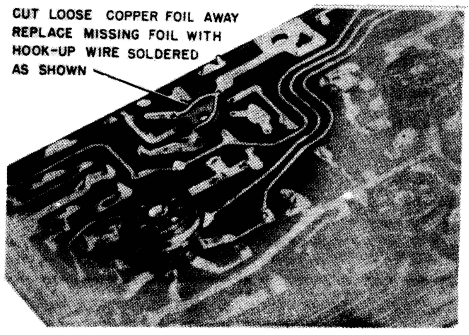

FIGURE 10. Jumper Wire Used to Replace Missing Metal Foil.