# INSTRUCTION FOR INSTALLATION OF PLUG-IN RELAY TR-4

1. Remove top and bottom cabinet from chassis.
2. Remove seven (7) screws securing the power amplifier cage.
3. Unsolder the RF choke from the load cap frame.

4. Remove the relay.
   A. Clip ten (10) leads to the relay.
   B. Remove two (2) screws securing the relay to the chassis.
5. Unsolder center conductor from the fuse bulb holder and the shield from ground.
6. Remove the SO-239 from sub-assembly.
7. Carefully unsolder all connections from terminal posts and remove excess solder from these terminals.

   CAUTION: The body of the feed-thru cap. is made of ceramic and will not with-stand excessive pressure or abuse.

8. Route coax through the access hole #8 of the relay board.
9. Align the relay board over the terminals, check for proper alignment.

   NOTE: It may be necessary to bend the terminal post slightly for proper alignment.

10. Slide the relay board over the terminal posts and position so the board lays on the flats of the terminal posts.

    NOTE: Some terminal posts are crimped, there-by enabling the board to rest on the flats. In these units, position the relay board down upon these crimps. Do Not attempt to go beyond the crimps on the terminal posts.

11. After checking for proper alignment of the relay board, solder all terminal posts.

    NOTE: It may be necessary to maintain slight pressure on top of the relay board to maintain alignment while soldering.

12. Install SO-239 on the sub-assembly.

    NOTE: It may be necessary to bevel the relay board before installation.

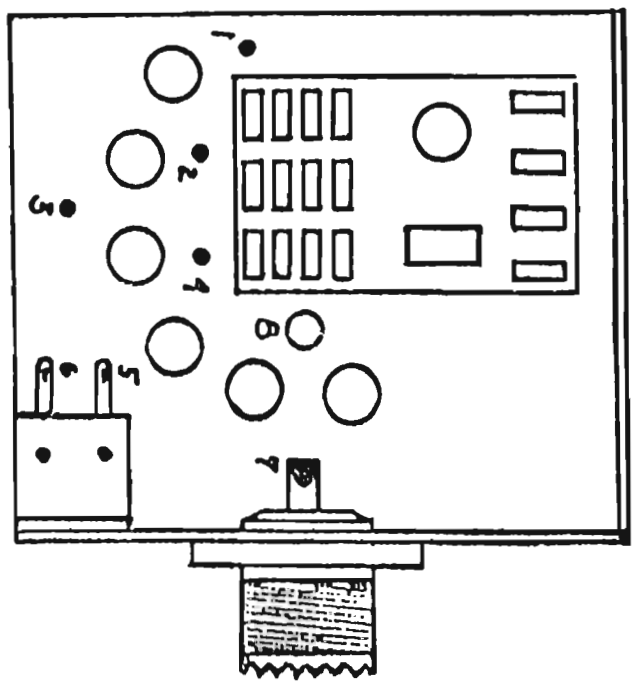
13. Solder center conductor of the coax to terminal #6 of the fuse bulb holder and the shield to ground.
14. Connect terminal #2 to terminal #5 on fuse bulb holder, solder both connections.
15. Connect terminal #3 to center conductor of SO-239, terminal #7, solder both connections.
16. Connect terminal #1 to ground lug on fuse bulb, solder both connections.

    NOTE: If there isn't a ground lug on the fuse bulb, any convenient ground will be sufficient.

17. Connect terminal #4 to the junction of 10pf disc cap. and the load cap. Solder both connections.

    NOTE: On some units there will be a 2.2 meg ohm resistor at this junction.

18. Install relay.
19. Resolder RF choke to the load cap frame and center conductor of SO-239.
20. Replace fuse buld in holder, if removed.
21. Secure power amplifier cage to the chassis.
22. Replace top and bottom sections of the cabinet.




## TR-4 - PLUG-IN - RELAY PARTS LIST

1 - Relay Board
4 - 3" bare wire (general hook-up) #22
2 - 5" black spaghetti
1 - 4" gray/white Tracer wire (ground) #22
1 - Set of instructions
1 - Plug-in Relay