

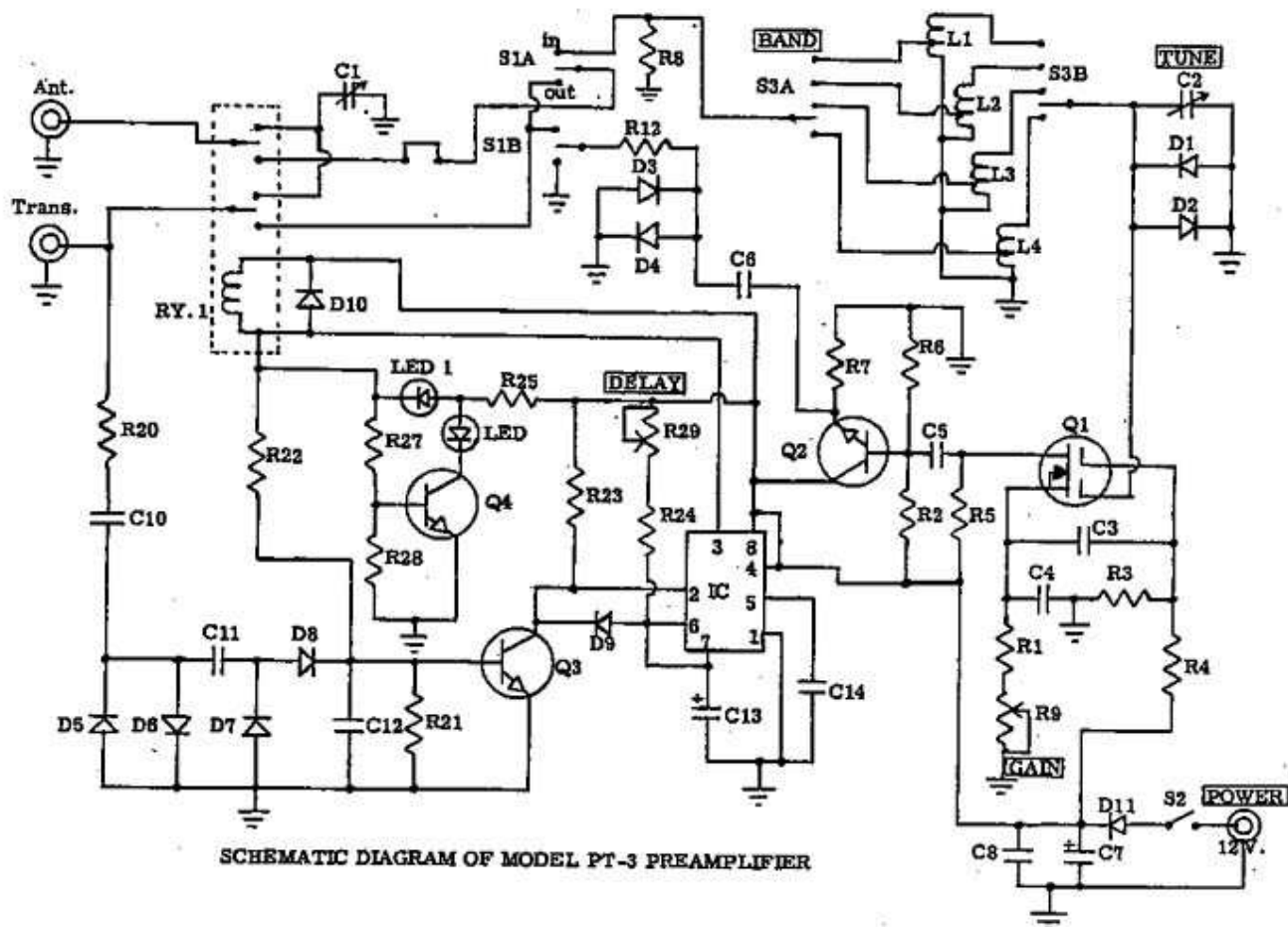
## ALIGNMENT PROCEDURE

The preamplifier section of the PT-3 has no adjustments. All tuning is done with the variable tuning capacitor on the front panel.

In order to obtain as good an impedance match as possible between the PT-3, the transceiver and the load, it may be necessary to adjust C1. C1 is a mica trimmer that is mounted on the PC board near the rear panel. It is adjustable from the top when the cabinet is removed. C1 is actually a reactance cancelling capacitor which is used to reduce the SWR. It has been adjusted at the factory and should not require further adjustment unless it has been inadvertently misadjusted or unless impedances or other factors at the station are not normal.

The adjustment procedure is as follows: (DO NOT attempt to make this adjustment unless you have a good SWR bridge and a good 50 ohm load.)

- (1) Connect a transmitter or transceiver to the input of the SWR bridge.
- (2) Connect a 12 volt DC supply to the power jack on the rear of the PT-3.
- (3) Connect one end of a coaxial cable to the PT-3 jack that is marked "TRANS". Connect the other end of the cable to the output side of the SWR bridge.
- (4) Connect a dummy load to the PT-3 jack that is marked "ANTENNA".
- (5) Turn the power switch of the PT-3 to "ON".
- (6) Tune up the transmitter on 52 MHz. If 52 MHz is not available, use the highest frequency that is available. The power that is used should be between 35 and 100 watts.
- (7) Switch the SWR bridge to read Reflected Power.
- (8) Adjust C1 for a minimum reading of the Reflected Power. Use an insulated screwdriver for this adjustment.



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