

# TEST SPECIFICATIONS

## FM - STEREO ADAPTOR MODEL 655

### TEST INSTRUMENTS AND CONDITIONS

A.C. Voltmeter  
 Oscilloscope  
 FM Signal Generator  
 Composite Signal Source  
 All tests at 117 volts line

### TEST FREQUENCIES REQUIRED

19.0 Kc  $\pm$  3 cycles or 38 Kc  $\pm$  6 cycles  
 67.5 Kc  $\pm$  500 cycles  
 38.0 Kc  $\pm$  500 cycles  
 22.0 Kc  $\pm$  500 cycles  
 54.0 Kc  $\pm$  500 cycles

### TEST PROCEDURE

Stop oscillator by shorting Pin 1 of T-3 to chassis.

Inject .1 volt at 19 Kc  $\pm$  500 cycles. Adjust R-4 fully clockwise (from top of chassis). Connect AC voltmeter across R-4. Adjust T-1 for null at 19 Kc. (R-5 must be open for this alignment). Connect R-5.

Inject .1 volt at 38 Kc. Connect AC voltmeter to Pin 2 of T-2. Adjust top core for maximum output. Inject .1 volt at 67.5 Kc. Adjust bottom core for minimum output.

Short input signal. Remove jumper from Pin 1 of T-3. Adjust oscillator coil T-3 to 19 Kc  $\pm$  50 cycles. Connect oscilloscope to Pin 1 of T-4. Adjust T-4 for maximum output and symmetry. Re-adjust oscillator coil T-3 to 19 Kc  $\pm$  3 cycles.

Connect adaptor to radio chassis. Connect 500 uv composite signal to radio chassis. Adjust radio chassis for .5 watt balanced output on monaural switch position. Switch to multiplex FM position. Adjust R-4 for 3 db attenuation of output.

NOTE:- The receiver adjustment on monaural should remain fixed and should only require a periodic check.

To check separation remove modulation from one channel and read separation on output meters.

NOTE:- R-4 should be turned counter-clockwise (from top of chassis) to prevent overloading the output meters when the receiver is turned on.

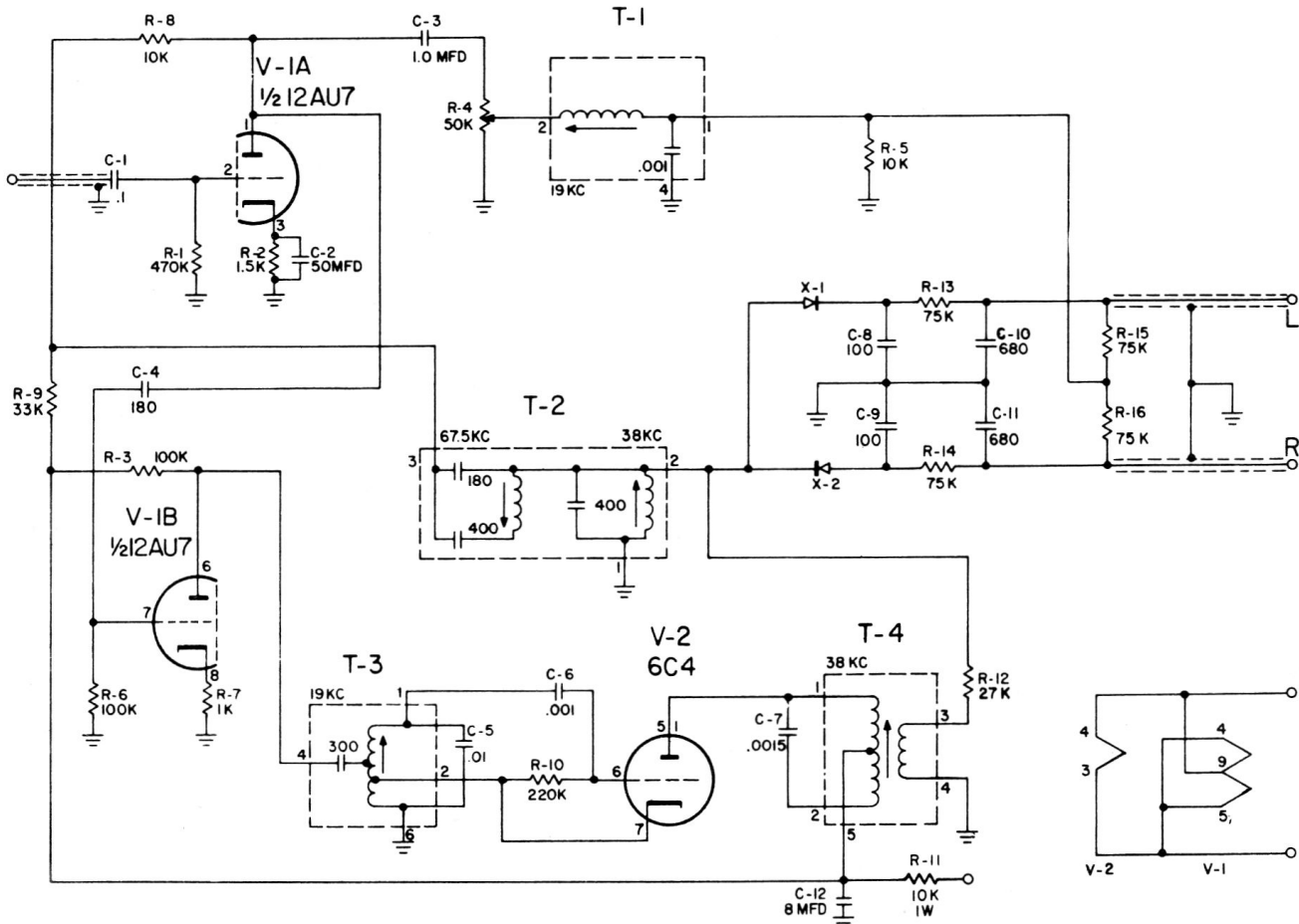


DIAGRAM OF CONNECTIONS FM-STEREO ADAPTOR MODEL 655