

# MULTIPLEX ALIGNMENT PROCEDURE

NOTE:- The following applies to chassis equipped with type 521-507 FM Stereo plug-in adaptor.

- 1) Feed 1 volt approximately of 67.5 Kc  $\pm$  500 cycles signal to Pin 7 of FM Multiplex Adaptor socket.
- 2) Connect an AC-VTVM to Pin 3 of T-1 and short out L-2.
- 3) Adjust L-1 for minimum reading on AC-VTVM.
- 4) Remove short from L-2 and feed in (at antenna) an RF signal modulated with a multiplex composite signal with information on one channel only. Signal to be strong enough so that there is one (1) volt AC at Multiplex input.
- 5) Adjust L-2 until you hear the 19 KC locking in.
- 6) With AC-VTVM still connected to Pin 3 of T-1, adjust T-1 for maximum. Both core to be on outside peak.
- 7) Reduce RF signal at antenna to a low level (approx. .07 volt AC at Multiplex input) and adjust L-2 for 19 KC to lock-in.
- 8) Increase RF signal for 1 volt AC at multiplex input and check separation, to be 12 DB or better. If not, re-adjust bottom of T-1 to improve separation beyond 12 DB.

<u>RESPONSE</u>	<u>19 KC</u>	<u>38 KC</u>	<u>54 KC</u>	<u>67.5 KC</u>
	0	+6DB	-8.5DB	-37 DB
<u>TOLERANCE</u>		$\pm$ 2DB	$\pm$ 2 DB	- 3 DB
<u>SEPARATION</u>	12 DB minimum at 1000 cycles. 6 DB minimum at 8000 cycles.			
<u>VOLTAGES</u>	Pin 2 or 3 of T-1 to be 2.7 volts AC RMS minimum.			

