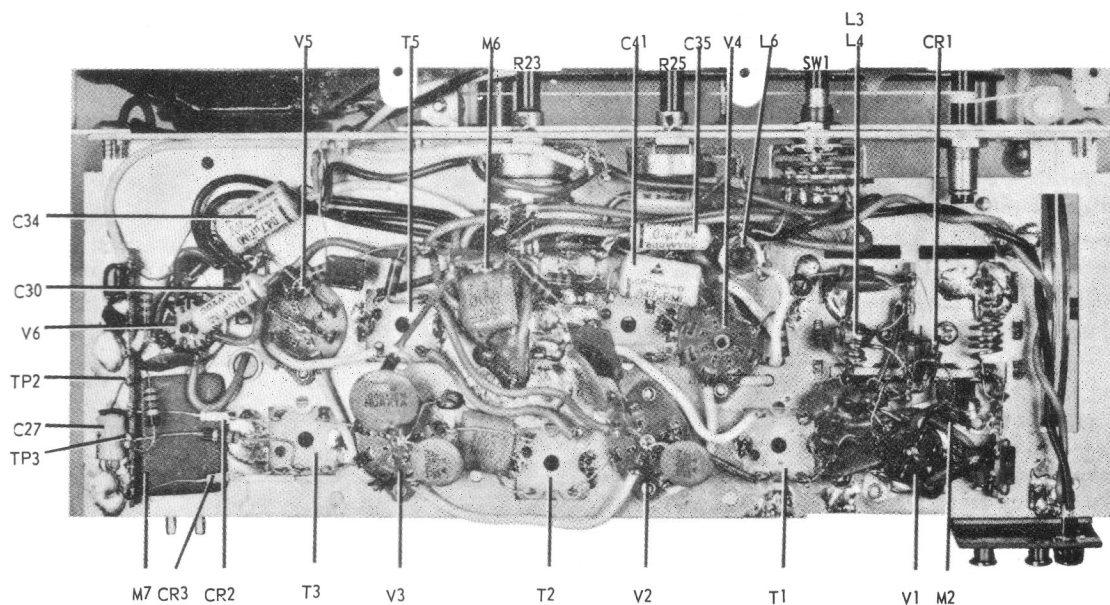


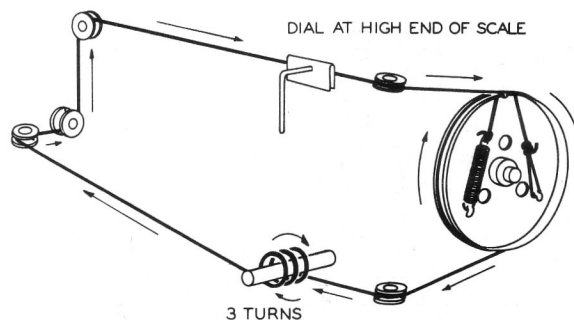
TOP VIEW OF CHASSIS SHOWING ALIGNMENT POINTS AND COMPONENTS

Note: Dashed (— — —) lines indicate slug nearest chassis.



BOTTOM VIEW OF CHASSIS

DIAL STRINGING DIAGRAM



ALIGNMENT PROCEDURE

AM ALIGNMENT

- WARNING:** The chassis of this receiver is connected directly to one side of the AC line. Use an isolation transformer or make certain that the ground leads of the receiver and test equipment are all connected to the grounded side of the AC line.
- Allow set and test equipment to warm up for at least five minutes before proceeding.
- Connect output meter or VTVM across speaker terminals. Turn function switch to AM position, volume control fully open.
- Use non-metallic alignment tools. Use an insulated screwdriver with blade no wider than 3/32".
- When aligning both AM and FM, align AM first.

STEP	CONNECTION OF SIGNAL GENERATOR	SIGNAL GENERATOR FREQUENCY	RECEIVER GANG SETTING	ADJUSTMENT
1	Through a .1 mf capacitor Lug at G on top of gang	455 KC 30% Mod.	Fully open	Ⓐ Ⓑ Ⓒ and Ⓓ for maximum on output meter.
2	Use a radiated signal. Loop of several turns of wire, or place generator lead close to antenna loop for adequate signal pickup.	535 KC 30% MOD.	Fully open	Ⓕ for maximum
3		1620 KC 30% MOD.	Fully open	Ⓖ for maximum
4		Repeat above two steps until 535-1620 KC range is established.		
5	Same as Steps 2, 3 and 4	1400 KC 30% MOD.	Tune in generator signal	Ⓖ for maximum

FM RF AND IF ALIGNMENT USING AM SIGNAL GENERATION AND VTVM

- Use isolation transformer as called for in AM alignment. Set function switch to FM position.
- For IF alignment, inject the 10.7MC unmodulated signal at C11 adjustment location Q on top of tuning gang.
- For RF alignment, inject signal into antenna terminals as follows: High side of signal generator to nickel screw through a 120 ohm resistor; low side to brass screw through a 150 ohm resistor.
- Use the lowest signal input possible to give a usable reading on the 1.5V minus DC scale, except in step 2 use maximum signal and the zero center scale, if available.

STEP	SIGNAL GENERATOR CONNECTION	SIGNAL GENERATOR FREQUENCY	RECEIVER DIAL SETTING	VTVM CONNECTION	ADJUSTMENT	REMARKS
1	Lug at Q on top of gang	10.7 Unmod.	High end. (Dial fully clockwise)	VTVM to TP2 Ground to Chassis	Ⓝ Ⓜ Ⓟ Ⓡ and Ⓛ for maximum	
2	Same as Step 1	10.7 Unmod.	Same as Step 1	Move VTVM lead to TP3.	Ⓜ for zero center	Use zero center scale on VTVM. Increase signal input to maximum.

NOTE: When Ⓜ is properly adjusted, meter will swing sharply from zero center as core is mis-adjusted in either direction.

3	Antenna terminals through resistors described in paragraph 3 above.	108.4 MC UNMOD.	Same as Step 1	Same as Step 1	Ⓢ for maximum	Only slight adjustment will be required.
4	Same as Step 4	106 MC UNMOD.	Tune in 106 MC on dial	Same as Step 1	Ⓟ for maximum	