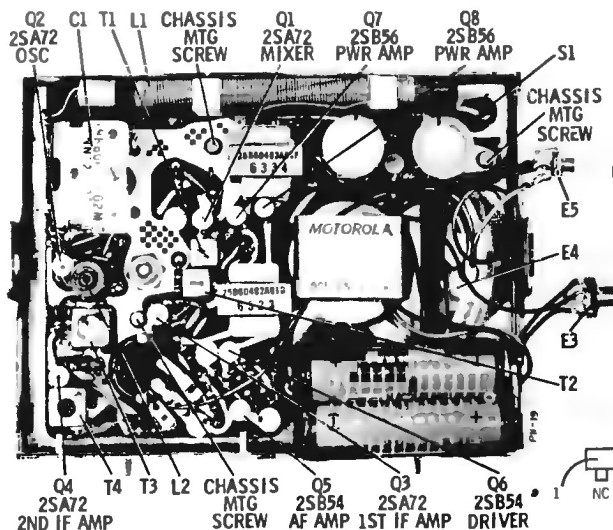
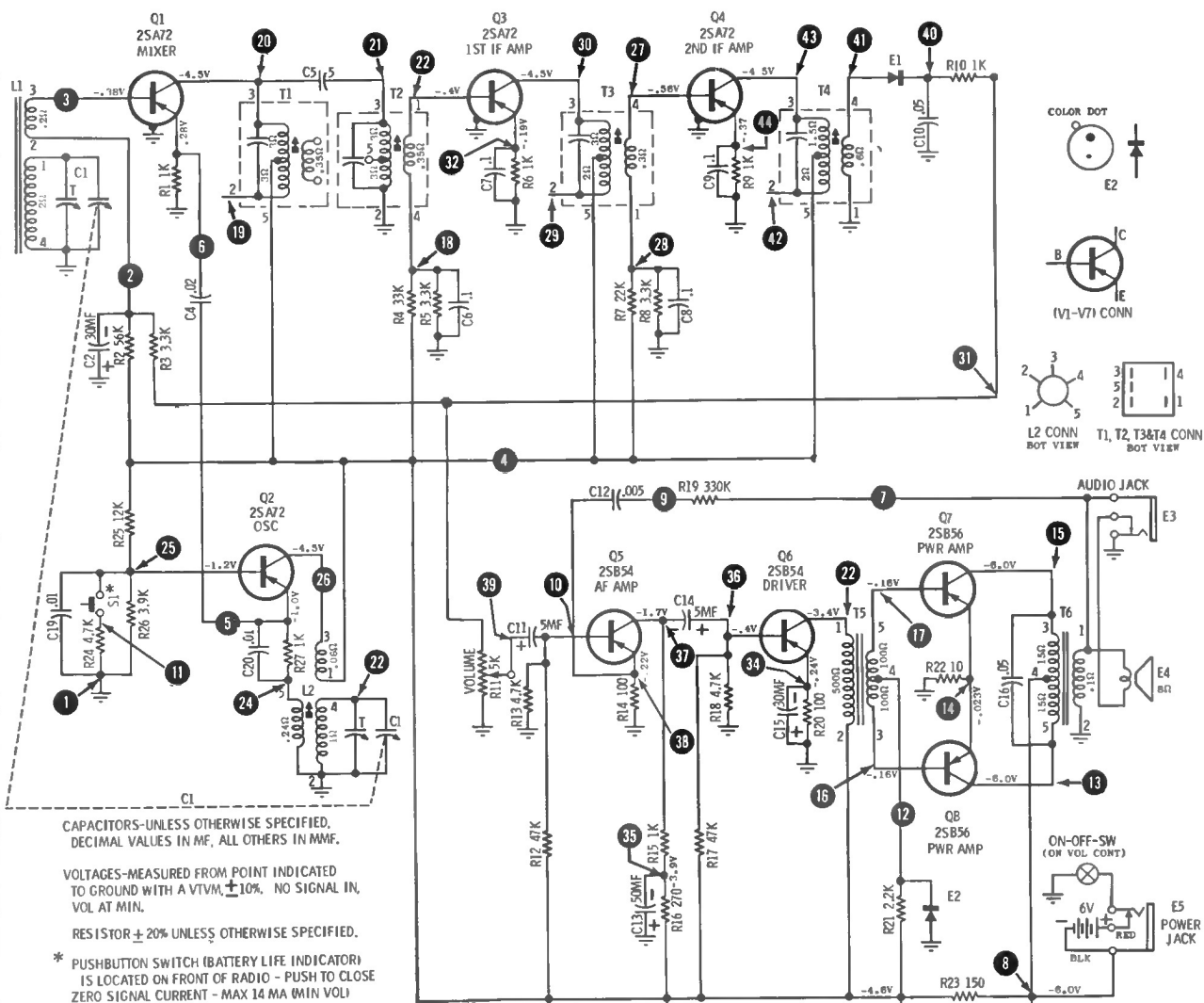




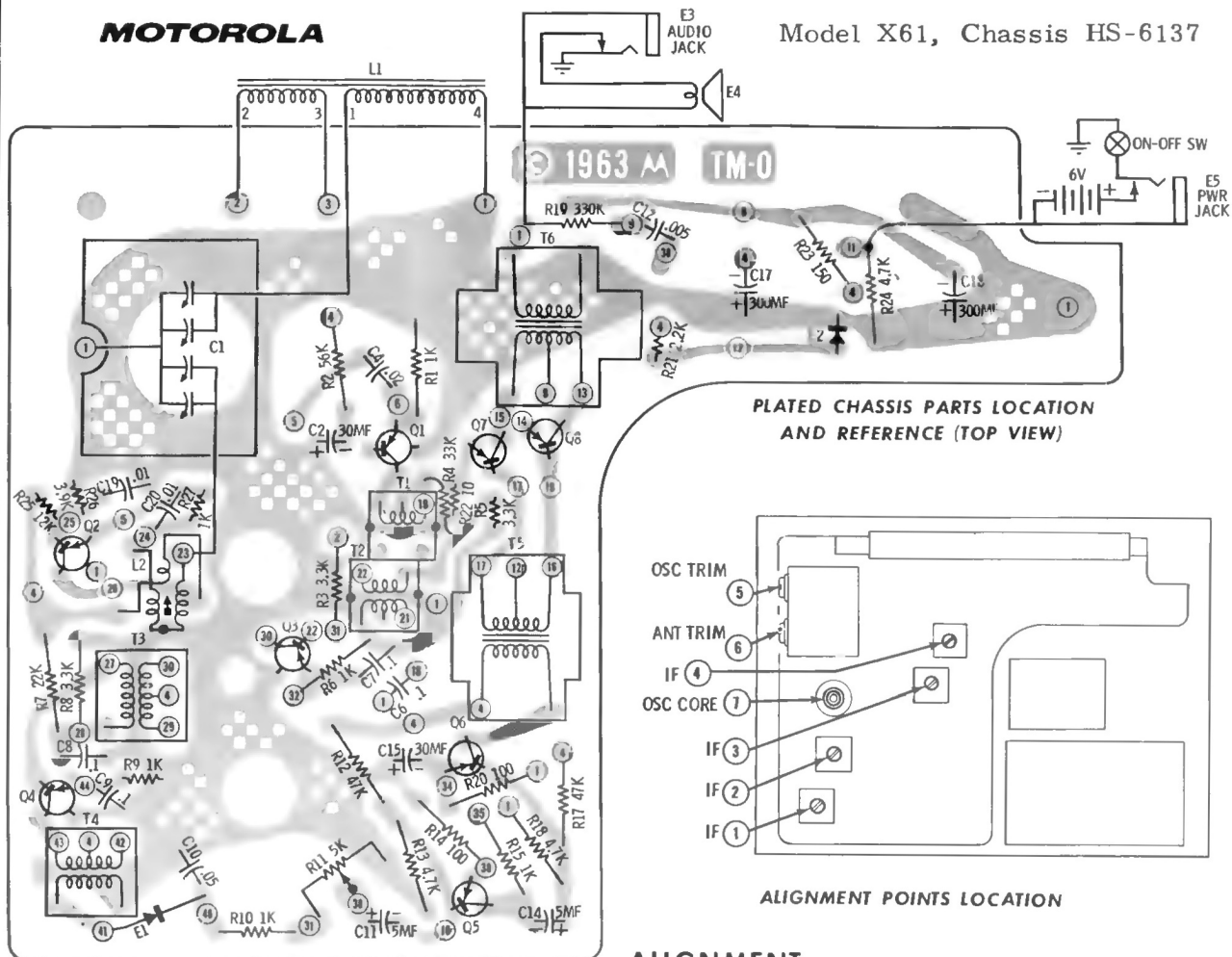
PARTS LOCATION

CHASSIS SERVICE AND REMOVAL

1. From front of radio, remove two (2) control knobs and nuts that mount the earphone jack and the external power supply jack.
2. Remove the two (2) cabinet mounting screws (they are located on the sides of the cabinet, under the carrying handle - lift the handle to expose them).
3. Lift the escutcheon and chassis as an assembly out of the cabinet.
4. To remove the chassis from the escutcheon, remove the battery, remove three (3) chassis mounting screws and, if necessary, unsolder leads connected to chassis.

MOTOROLA

Model X61, Chassis HS-6137



ALIGNMENT

Connect an output meter across the speaker. Set volume to maximum. Attenuate signal generator output so as not to exceed .40 volt on output meter at all times to prevent overloading and AGC action. Alignment should be performed with the chassis in the cabinet.

STEP	GENERATOR CONNECTION	GENERATOR FREQUENCY (400 cycle mod)	GANG SETTING	ADJUST	REMARKS
IF ALIGNMENT					
1.	Radiation loop*	455Kc	Fully opened (1620Kc)	1, 2, 3 & 4	Adjust for maximum. Repeat adjustments #1 and #2.
RF ALIGNMENT					
NOTE: Before performing RF alignment, check oscillator tuning range; with gang fully opened, set should tune to 1620Kc $\pm$ 15Kc; with gang fully closed, 532Kc $\pm$ 5Kc. If oscillator does not cover this range, perform Steps A, B and C at this point. . . . otherwise, skip over them and go on to Step 2.					
A.	Radiation loop*	532Kc	Fully closed (532Kc)	7	Adjust for maximum.
B.	Radiation loop*	1620Kc	Fully opened (1620Kc)	5	Adjust for maximum.
C. Repeat Steps A and B until oscillator covers required range; Step B should be last adjustment.					
2.	Radiation loop*	1620Kc	Fully opened (1620Kc)	5	Adjust for maximum.
3.	Radiation loop*	1400Kc	Tune for maximum	6	Adjust for maximum.

*Connect generator output across 5" diameter, 5-turn loop and couple inductively to receiver antenna. Keep radiation loop at least 12" from receiver antenna.