

Motorola

MODELS
62C1
62C2
62C3

MODELS
62C1A
62C2A
62C3A

CHASSIS
HS-299

ALIGNMENT

NOTE: It is recommended that an isolation transformer be placed between the power line and the receiver to avoid hum and electrical shocks. If an isolation transformer is not available, connect the low side of the signal generator to B- through a .1 mf capacitor.

1. Connect a low range output meter across the speaker voice coil.
2. Connect the low side of the signal generator to B-.
3. Set the signal generator for 400 cycle, 30% modulation.

4. Turn the receiver volume control to maximum.
5. Use a small fibre screwdriver for aligning the IF and diode transformers.
6. As stages are brought into alignment, reduce the signal generator output to a level which produces less than .40 volts (.05 watt) across the voice coil to avoid overloading the receiver.
7. See Figure 2 for adjustment locations and the following chart for procedure.

STEP	DUMMY ANTENNA	GENERATOR CONNECTION	GENERATOR FREQUENCY	GANG SETTING	ADJUST	REMARKS
IF ALIGNMENT						
1.	.1 mf	Grid of conv (RF section of gang)	455 Kc	Fully open	1, 2, 3 & 4 (IF cores)	Adjust for maximum.
RF ALIGNMENT						
2.	.1 mf	Grid of conv. (RF section of gang)	1620 Kc	Fully open	5 (Osc trim)	Adjust for maximum.
3.	-	Radiation loop*	1400 Kc	Tune for max	6 (RF trim)	Adjust for maximum.
4.	-	Radiation loop*	1400 Kc	Tune for max	7 (Ant trim)	Adjust for maximum.

*Connect generator output across 5-inch diameter, 5 turn loop and couple inductively to receiver loop. Keep generator loop perpendicular to axis of and at least 12 inches from receiver iron core loop.

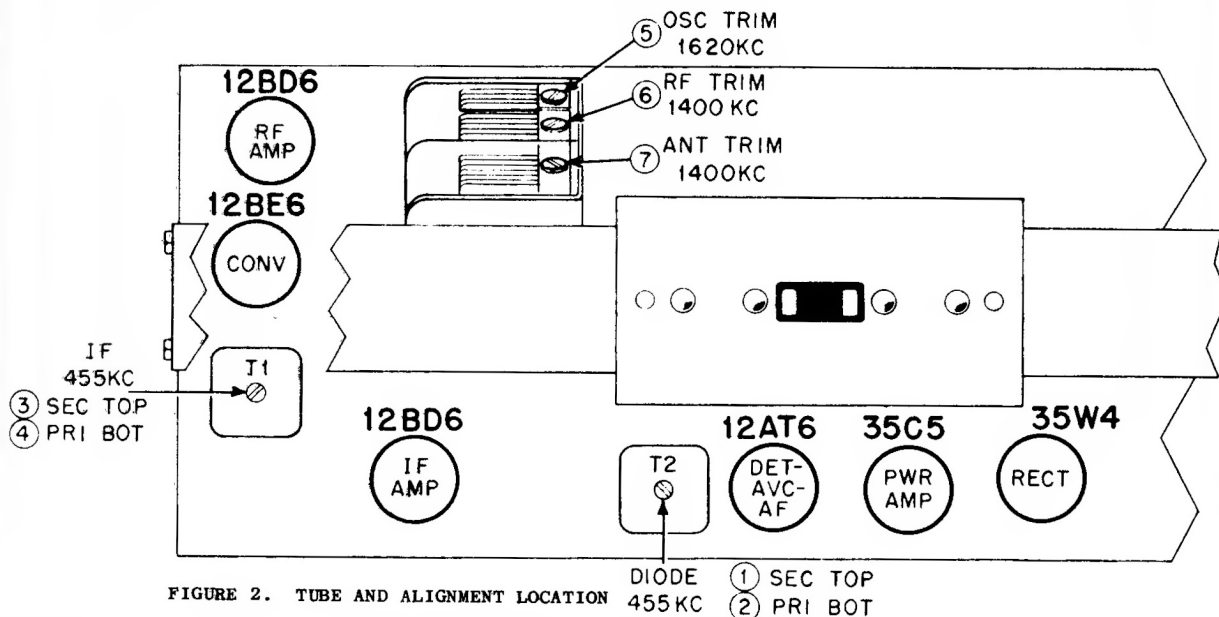


FIGURE 2. TUBE AND ALIGNMENT LOCATION

MOTOROLA, Inc.

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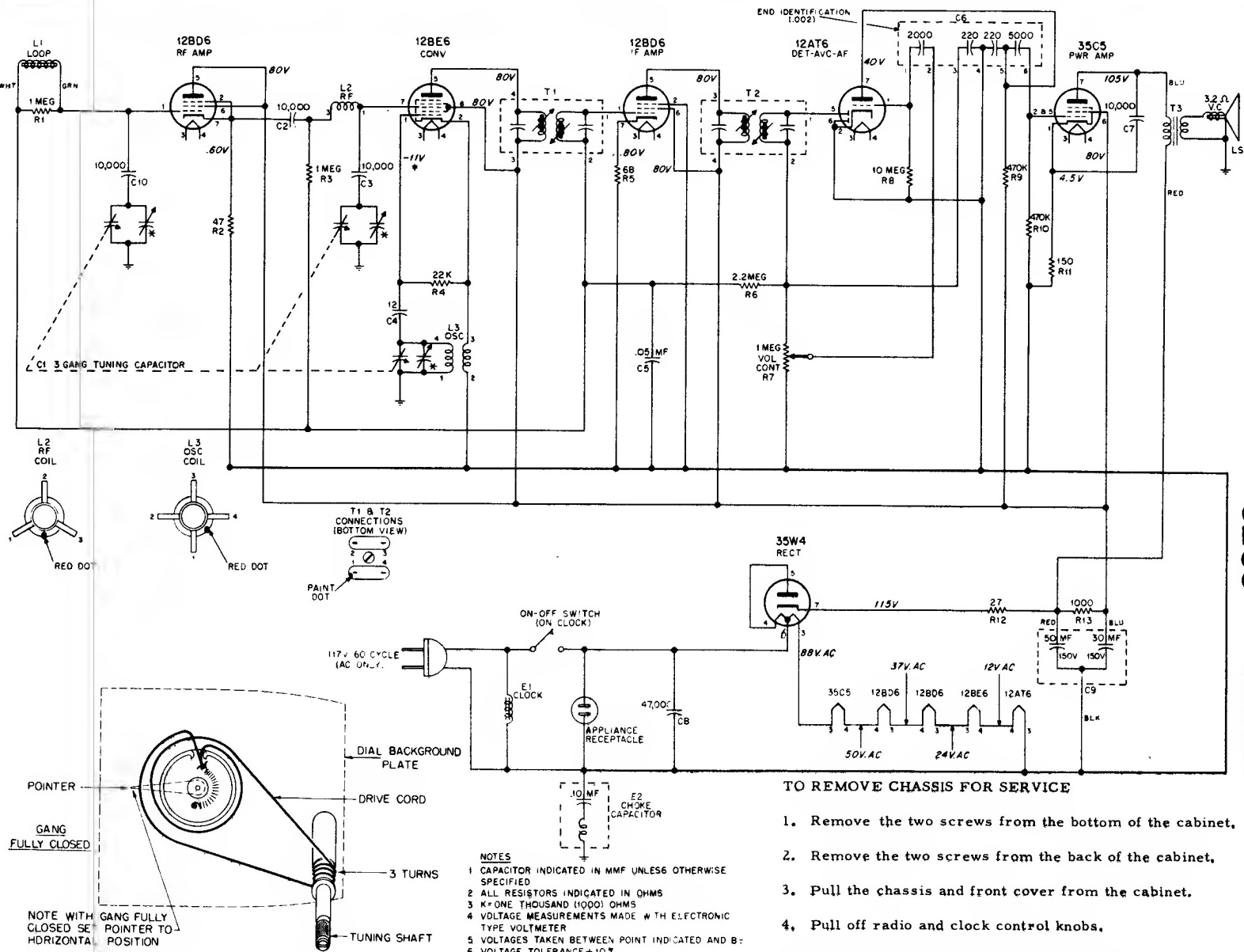


FIGURE 3. STRING DRIVE DETAIL

TO REMOVE CHASSIS FOR SERVICE

1. Remove the two screws from the bottom of the cabinet.
2. Remove the two screws from the back of the cabinet.
3. Pull the chassis and front cover from the cabinet.
4. Pull off radio and clock control knobs.
5. Insert a screwdriver into the loops on the ends of the front cover retainer springs, and pry the springs from their slots in the chassis.

NOTES

- 1 CAPACITOR INDICATED IN MMF UNLESS OTHERWISE SPECIFIED
- 2 ALL RESISTORS INDICATED IN OHMS
- 3 K=ONE THOUSAND (1000) OHMS
- 4 VOLTAGE MEASUREMENTS MADE WITH ELECTRONIC TYPE VOLTMETER
- 5 VOLTAGES TAKEN BETWEEN POINT INDICATED AND B:
- 6 VOLTAGE TOLERANCE +10%
- 7 INPUT VOLTAGE 117 V AC
- 8 NO SIGNAL INPUT
- 9 * MEASUREMENT MADE WITH GANG FULLY OPEN
- 10 * TRIMMERS ON GANG