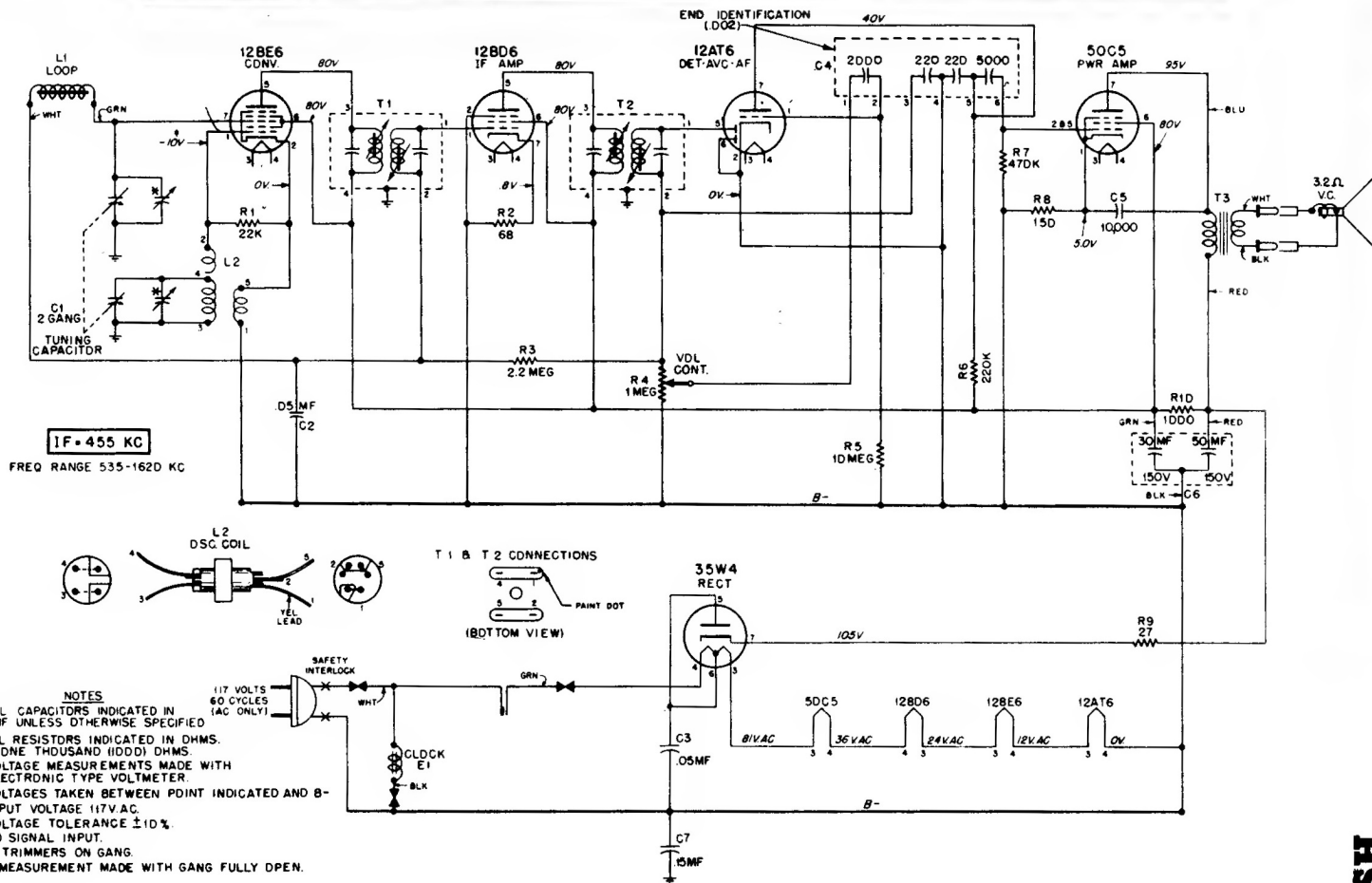


Motorola



MODELS
52CW1
52CW2
52CW3
52CW4
CHASSIS
HS-329

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 4 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. (pin 7, 12BE6)	455 Kc	Fully open	1, 2, 3 & 4 (IF cores)	Adjust for maximum.
RF ALIGNMENT 2.	.1 mf	Grid of conv. (pin 7, 12BE6)	1620 Kc	Fully open	5 (Osc)	Adjust for maximum.
3.	-	Radiation loop*	1400 Kc	Tune for max	6 (Ant)	Adjust for maximum.

*Connect generator output across 5" 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.

TO REMOVE CHASSIS FOR SERVICE

1. Pull off the two radio control knobs.
2. Remove the four screws from the back cover.
3. Pull off the back cover.
4. Disconnect the speaker leads.
5. Disconnect the three leads to the clock.

TO REMOVE CLOCK FROM CABINET

1. Remove the radio chassis as above.
2. Pull off the three clock control knobs.
3. Remove the clock dial scale.
4. Remove the three speed nuts which fasten the clock to the cabinet.
5. Remove the clock carefully, to prevent damage to its hands or face.

TO REPLACE CLOCK DIAL BACKGROUND

1. Remove the clock from the cabinet as above.
2. Carefully pull off the four hands.
3. Remove the clock dial background.
4. Install new background.
5. Turn the radio control shaft ("B") to "AUTO" position.
6. Slowly rotate the automatic time set shaft ("C") clockwise until a "click" is heard, indicating that the switch contacts have closed. Do not overshoot this point.
7. Reassemble all four hands in the 12 o'clock position.

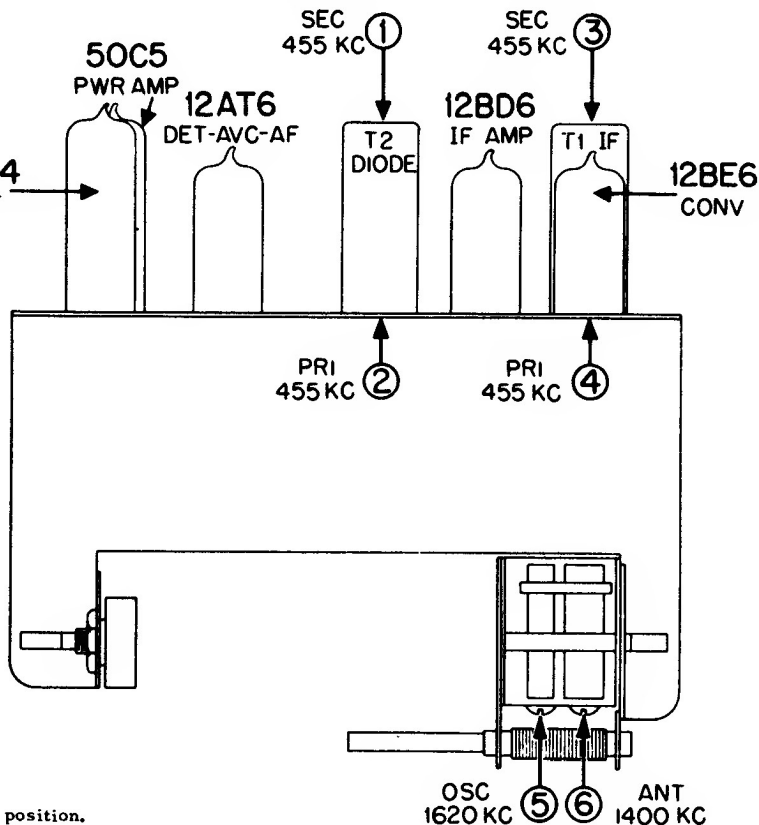


FIGURE 4. TUBE AND ALIGNMENT LOCATIONS

8. Check the operation of the clock to be sure the radio turns on at the time indicated on the automatic time dial scale.