

Chassis Layout and Alignment Adjustments (JK54)

Adjustments for Keyboard Tuning

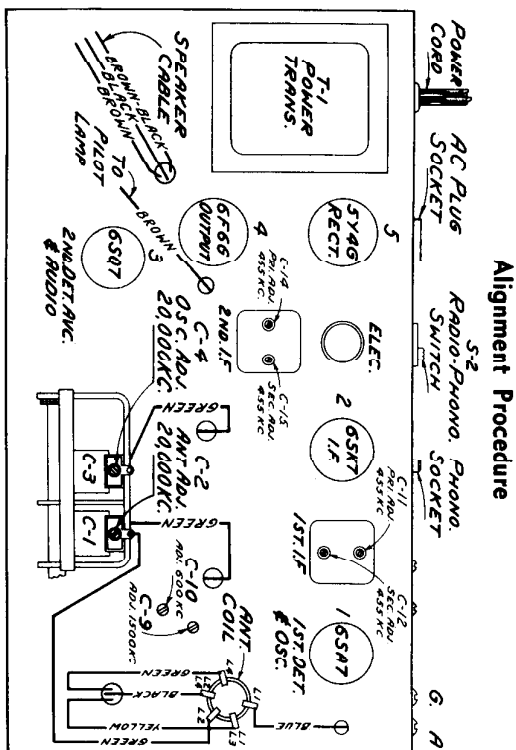
These models have five push keys for mechanical tuning of five different stations in the standard broadcast range. Allow at least a five minute warm-up period before making any adjustments.

To adjust the push-keys proceed as follows:—

1. Make a list of the desired stations, arranged in order from the low to the high frequencies.
2. Manually tune in the desired station accurately.
3. Loosen push key by turning counterclockwise.
4. Press the push key in as far as it will go and accurately retune station.
5. With the push key still held in, tighten it by turning in a clockwise direction.

ALIGNMENT DATA MODELS JK54, JK55. (RCA VICTOR A-21 AND A-34)

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Alignment Procedure

Cathode-Ray Alignment is the preferable method. Connections for the oscillograph are made in the usual manner.

Output Meter Alignment.—If this method is used, connect the meter across the voice coil, and turn the receiver volume control to maximum.

Tek-Oscillator.—For all alignment operations, connect the low side of the test-oscillator to the receiver chassis, and keep the output as low as possible to avoid A-V-C action.

The Alignment Procedure is carried out in the usual manner. By no means attempt to align these receivers without the assistance of an accurate test oscillator and visual output indicator.

Dial Indicator Adjustment.—With gang in full mesh (max. cap.) position, adjust pointer to the extreme left mark on dial plate.

Steps	Connect the high side of test-osc. to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output
1	6SK7 I-F grid in series with .01 mfd.	455 kc	"A" band	C14 and C15 (2nd I-F Trans.)
2	6SA7 det. grid in series with .01 mfd.	455 kc	Point between 550-750 kc	C11 and C12 (1st I-F Trans.)
3	Antenna Terminal, in series with 300 ohms	20 mc	"C" band	C24* (ant.)
4	Antenna Terminal, in series with 200 mmf.	600 k.c.	"A" band	C10 (osc.)
5	Antenna Terminal, in series with 200 mmf.	1,500 kc	1,500 kc "A" band	C9 (osc.)

*Use minimum capacity peak if two peaks can be obtained.

**Rock gang slightly and use maximum capacity peak if two peaks can be obtained with C2. Check to determine that C4 has been adjusted to the correct peak by tuning to approximately (13.5 mc), where a weaker signal should be received.

Note: Oscillator tracks 455 kc above signal on all bands.

Radiotron Socket Voltages

TYPE	PLATE	Screen Grid	Cathode	Heater
6SA7	278V	96V	0	6.0V
6SK7	278V	96V	0	6.0V
6SQ7	66V*	0	0	6.0V
6F6-G	288V	37V	178V	6.0V
5Y4-G			358V	5.0V

*Cannot be measured with an ordinary voltmeter.

NOTE: The voltage values listed above should hold within plus or minus 20% when measured with a 1,000 ohm per volt meter on a line voltage of 117 volts.