

ALIGNMENT PROCEDURE

Check dial pointer position, see DIAL CALIBRATION paragraph.

Volume Control—Maximum All Adjustments.
Allow Chassis and Signal Generator to "Heat Up" for several Minutes

The equipment in column at right is required for aligning:

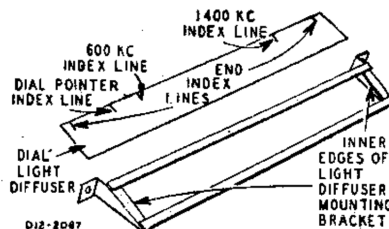
Signal Generator which will provide an accurately calibrated signal at the test frequencies as listed.

Output Indicating Meter: Non-Metallic Screw-driver.

Dummy Antennas—.1mf., 50 mmf.

FREQUENCY SETTING	SIGNAL GENERATOR ANTENNA CONNECTION	GROUND CONNECTION	DUMMY ANTENNA	TUNER SETTING	ADJUST TRIMMERS TO MAXIMUM (See Trimmer Illustration)
455 KC	Control Grid 12SK7—I. F.	Point "X" 12SK7—I. F. Prong No. 3	.1 mf.	Turn Drive Pulley to Counterclockwise Position	2nd I. F. (C7) & (C8)
455 KC	Control Grid 12SA7—1st Det.	Same As Above	.1 mf.	Turn Drive Pulley to Counterclockwise Position	1st I. F. (C5) & (C6)
1610 KC	Control Grid 12SA7—1st Det.	Same As Above	.1 mf.	Turn Drive Pulley to Maximum Counterclockwise Position	Oscillator (C4)
1610 KC	External Antenna Clip On Loop	Chassis	50 mmf.	Turn Drive Pulley to Maximum Counterclockwise Position	Antenna (C-2)

DIAL CALIBRATION

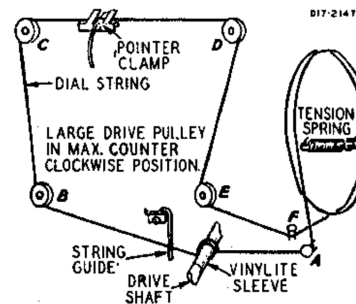


In order to align the receiver, the dial pointer must be positioned on the dial string correctly with reference to the dial. Index lines are provided on the dial light diffuser for this purpose.

Before aligning the receiver (or when replacing the dial light diffuser) check the position of the diffuser strip, making certain that the two extreme index lines are aligned with the inner edges of the diffuser mounting bracket opening. The bracket should be crimped at one point to prevent movement of the diffuser strip. To position the dial pointer, turn the large drive pulley to the maximum clockwise position. The dial pointer should be directly over the dial pointer index line. (See illustration).

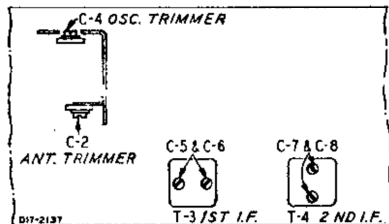
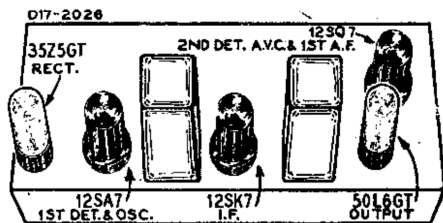
TUNING ASSEMBLY SERVICE

Exact requirements in the tuning assembly make it impractical to replace the drive cord, coils and components in this assembly other than the trimmer condensers. Should the drive cord break, or components other than the trimmer condensers require service, the entire assembly must be ordered and replaced as a unit.



DRIVE CORD REPLACEMENT

Turn the large drive pulley to the maximum counterclockwise position. Use a new 53 inch drive cord, tie one end to the tension spring and fasten the other end of the spring to the drive pulley. Install the cord as shown in the illustration. Wind two turns clockwise around the tuning shaft with the turns progressing away from the chassis. After string is installed, stretch the tension spring and tie free end of cord to spring. Cut off excess string.



NOTICE: There is a power rating label on the chassis. This label specifies the power supply on which the radio may be used, and identifies the radio as to chassis, dial and issue letter. When ordering parts or writing, give ALL information appearing on this label.

MISCELLANEOUS	
12A432	5" P.M. speaker
	Cone and voice coil assembly (specify part number and letters stamped on speaker)
3A303	Tube socket octal (8 prong) moulded
10A300	Knob (ivory)
10A297	Knob (walnut)
55X255	Cabinet (ivory)
55X267	Cabinet (walnut)
28X292	Snap button (mounting loop to chassis)
	No. 6 x 1/2" slotted hex head P.K. Type "Z" screw (mounting loop to cabinet)
14X335	Grille metal
	Grille, cloth No. 426 Egg Shell (for ivory cabinet)
	Grille, cloth No. 418 Brown (for walnut cabinet)
13X328	Line cord and plug assembly

TRANSFORMERS AND COILS	
9A1834	T 1 "B" range loop antenna (for walnut cabinet)
9A1835	T 1 "B" range loop antenna (for ivory cabinet)
	T 2 Part of Tuning Assembly
9A1808	T 3 1st I-F coil assembly
9A1809	T 4 2nd I-F coil assembly
51X122	T 5 Output transformer
	T 6 Part of Tuning Assembly
CAPACITORS	
D66102	C 1 .901 MF 400V Tubular
17A238	C 2 4 70 mmf Trimmer
47X446	C 3 47 mmf Moulded
17A239	C 4 40 370 mmf Trimmer
	C-5, C-6 Part of T-3, 1st I-F Transformer
	C-7, C-8 Part of T-4, 2nd I-F Transformer
47X112	C 9A, C-9B 50 mmf Dual mica capacitor
B66503	C-10 .05 mf 200 Tubular
R66103	C-11, C-13, C-14 .01 mf 200 V Tubular
47X468	C 12 220 mmf Moulded
B66204	C-15 .20 mf 200 V Tubular
D66104	C 16 .10 mf 400 V Tubular
45X341	C-17A 50 mf 150 V Tubular
	C-17B 50 mf 150 V Dry electrolytic capacitor
RESISTORS	
B8439	R-1 39,000 ohms 0.5 watt Carbon
B85225	R-2 2.2 meg 0.5 watt Carbon
B5473	R-3 47,000 ohms 0.5 watt Carbon

36X352	R-4	500,000 ohm		Volume control and line switch
B85685	R 5	6.8 meg.	0.5 watt	Carbon
B84474	R 6	470,000 ohms	0.5 watt	Carbon
B85474	R 7	470,000 ohms	0.5 watt	Carbon
B83151	R 8	150 ohms	0.5 watt	Carbon
B85224	R 9	220,000 ohms	0.5 watt	Carbon
B84270	R 10	27 ohms	0.5 watt	Carbon
C85152	L-11	1500 ohms	1.0 watt	Carbon
DIAL AND DRIVE ASSEMBLY				
28A96				Tuning Assembly complete with coils, trimmers, etc.
11X119				Fibre shield (Tuner housing)
28X518				Trimount Stud (Mfg. fibre shield)
24X446				Idler pulley
25X1459				Pointer bracket
15X223				Pointer
25X1470				Holder, light diffuser
41X79				Dial light diffuser
26X482				Drive shaft (tuning)
19X192				"C" washer (for drive shaft)
				53" drive cord (18 lb. test)
28X113				Drive cord tension spring
7A194				Pilot light socket assembly
				No 47 pilot light
58X639				Dial (for ivory cabinet)
58X641				Dial (for walnut cabinet)
30X508				Dial clamp (upper)
30X509				Dial clamp (lower)