

Code Part
No. Description

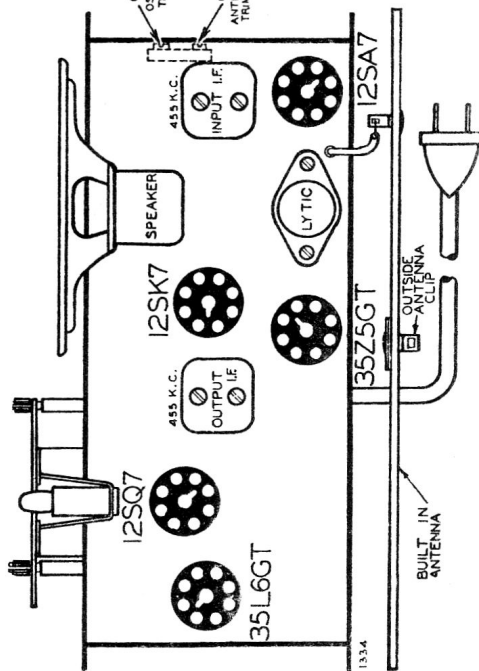
RESISTORS

R1	1301	25M ohm— $\frac{1}{4}$ w.
R2	130215	25 ohm— $\frac{1}{4}$ w.
R3	130168	100 ohm— $\frac{1}{4}$ w.
R4	130315	75 ohm— $\frac{1}{4}$ w.
R5	1304	3 megohm— $\frac{1}{4}$ w.
R6	101251	1 megohm volume control and switch
R7	1309	200M ohm— $\frac{1}{4}$ w.
R8	130257	5 megohm— $\frac{1}{4}$ w.
R9	1309	200M ohm— $\frac{1}{4}$ w.
R10	1303	500M ohm— $\frac{1}{4}$ w.
R11	130166	150 ohm— $\frac{1}{4}$ w.
R12	130287	1200 ohm—1 w.

CONDENSERS

C1	131262	Washer cond. (ant. clip on ant. plate)
C2	12912	.00025 mica
C3	124150	Antenna section dual trimmer
C4	12938	.00005 mica
C5	1001	.1 x 400 v.
C6	124150	Oscillator section dual trimmer
C7	1009	.05 x 200 v.
C8	1295	.0001 mica
C9	10025	.002 x 600 v.
C10	100110	.2 x 400 v.
C11	12921	.0002 mica
C12	100106	.004 x 600 v.
C13	11992	20 mfd. x 150 v. lytic
C14	11992	40 mfd. x 150 v. lytic
C15	100-9	.05 x 200 v.
C16	10026	.02 x 400 v.

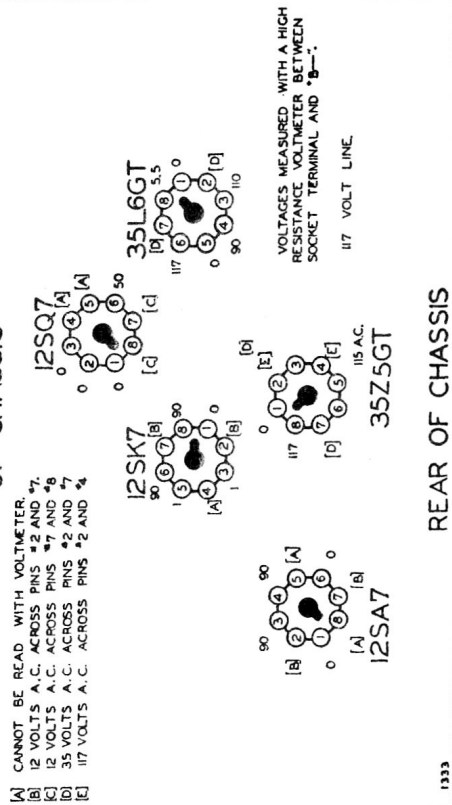
C3 and C6 are in same unit.
C13 and C14 are in same unit.



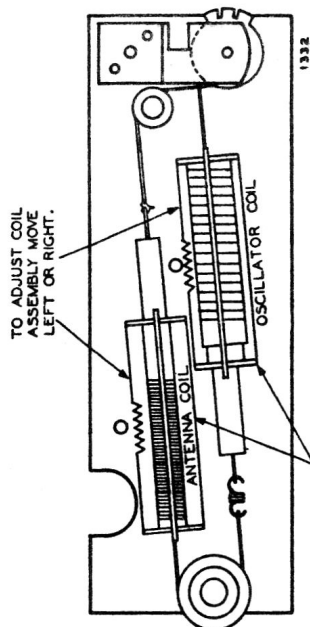
T1	13611	Antenna Assembly (Permeability tuning Antenna Section)
T2	13611	Permeability tuning assembly (Oscillator Section)
T3	108140J	Input I.F. coil 455 kc.
T4	108141E	Output I.F. coil 455 kc.

T5	10595B	Output transformer.
T6	114239	5" P.M. speaker
S1		On-off switch on volume control
P1	107249	Pilot lite bulb T47

BOTTOM VIEW OF CHASSIS

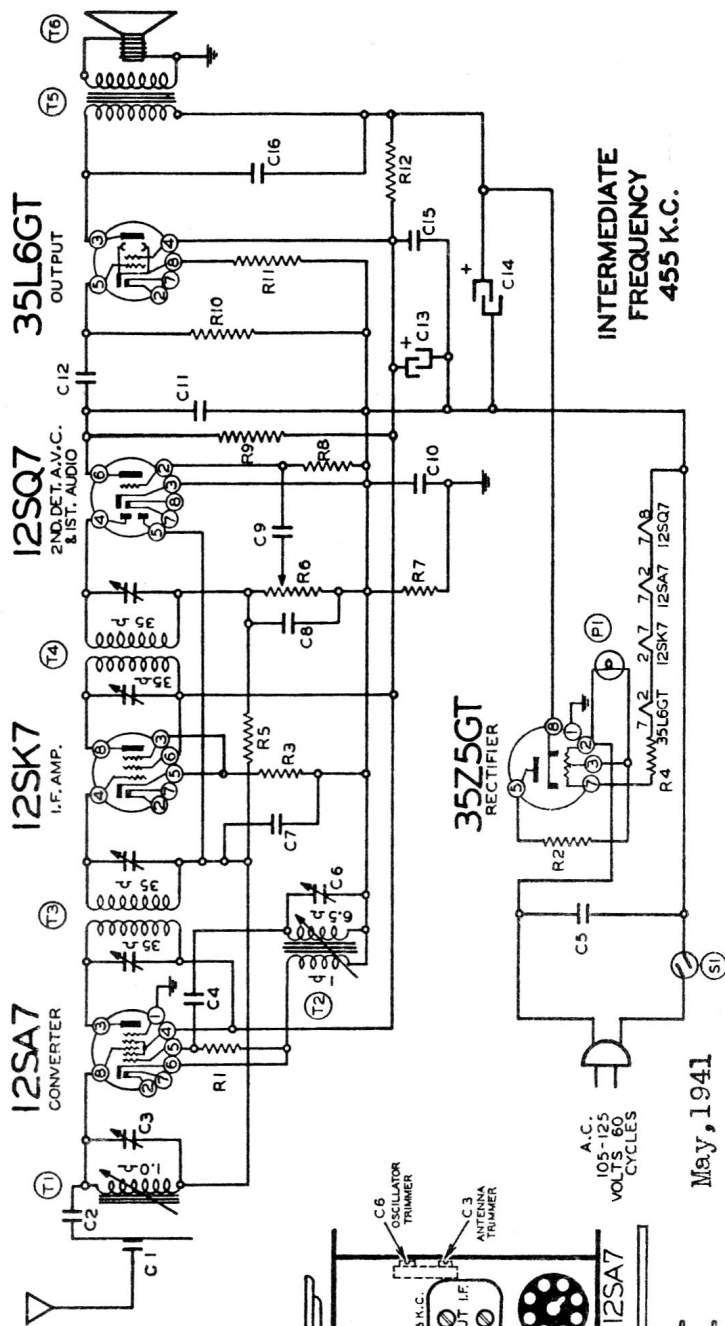


REAR OF CHASSIS



NOTE: THE ANTENNA COIL ASSEMBLY IS MADE SO THAT IT IS MOVABLE LEFT OR RIGHT. WHEN MAKING THE ADJUSTMENT AS GIVEN IN THE ALIGNMENT PROCEDURE MOVE COIL ASSEMBLY VERY SLOWLY

COIL ASSEMBLY VIEW



INTERMEDIATE
FREQUENCY
455 K.C.

May, 1941

TECHNICAL DATA MODEL 5DA1

Power Consumption	- - - - -	35 Watts	Selectivity - 59 KC Broad at 1000 Times Signal at 1000 KC
Power Output	- - - - -	800 Milliwatts Undistorted	Tuning Frequency Range - - - - 535 to 1720 KC
Sensitivity (for .05 Watts Output) - 30 Microvolts Average	- - - - -		Intermediate Frequency - - - - 455 KC
	- - - - -		Speaker - - - - - 5 in. P. M. Dynamic

ALIGNMENT PROCEDURE

BAND	SIGNAL GENERATOR Frequency Setting	Dummy Antenna	Connection to Radio	Position of Iron Cores (Dial Setting)	Trimmer's Adjusted (In Order Shown)	Trimmer Function	Adjustment
I. F.	455 Kc.	.1 MFD.	Connect to Grid of 12SA7	Iron Cores All the way out	Two trimmers on top of output I. F. can	Output I. F.	Adjust to maximum output
	455 Kc.	.1 MFD.	Connect to Grid of 12SA7	Iron Cores All the way out	Two trimmers on top of input I. F. can	Input I. F.	Adjust to maximum output
BROAD- CAST BAND	1720 Kc.	.1 MFD.	Connect to Grid of 12SA7	Iron Cores All the way out	Trimmer (C6) (See chassis view)	Oscillator	Adjust to maximum output
	1720 Kc.	200 MMF.	Connect to Outside Antenna Clip	Iron Cores All the way out	Trimmer (C3) (See chassis view)	Antenna	Adjust to maximum output
	1400 Kc.	200 MMF.	Connect to Outside Antenna Clip	Turn Dial to 1400 Kc.	Adjust position of antenna coil (See coil assembly view)	Antenna Coil Adjustment	Adjust to maximum output (See Note "A")
	1720 Kc.	200 MMF.	Connect to Outside Antenna Clip	Turn Dial to 1720 Kc.	Adjust trimmer (C3) (See chassis view)	Antenna	Check for tracking (See Note "B")

NOTE "A"—The antenna coil assembly is made so that it is movable. When making the adjustment as given in the alignment procedure move the coil assembly very slowly. It can be moved by hand or by pivoting one edge of the blade of a screwdriver in the hole and engaging the blade in the gear teeth of the coil form.

NOTE "B"—After the antenna coil has been tracked at 1400 Kc. it is necessary to check the antenna trimmer (C3) adjustment again at 1720 Kc. If no appreciable change in trimmer adjustment is made the coil is in track, if the trimmer requires considerable change it will be necessary to again adjust the position of the antenna coil at 1400 Kc. These two adjustments should be tried several times until no change of trimmer adjustment is required at 1720 Kc.