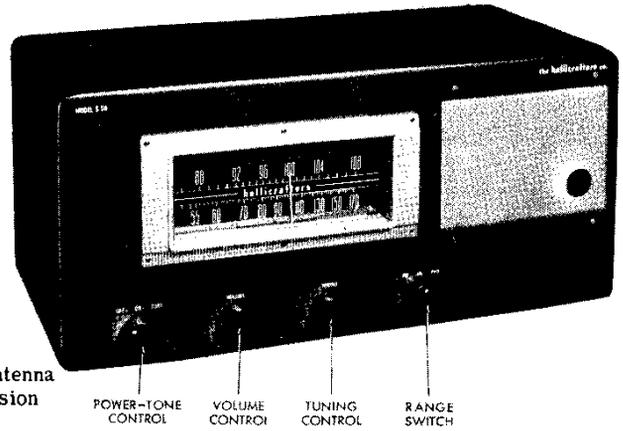


GENERAL

- Tubes Six plus rectifier
- Speaker. 5-inch PM
- Voice Coil Impedance. . . . 3.2 ohms
- Antenna. Provisions for external antenna with 300-ohm transmission line
- Phono Input High Impedance
- Tuning Manual
- Frequency Range. . . . Broadcast 540 kc - 1600 kc
Frequency Modulation 88 mc - 108 mc
- Intermediate Frequency. 455 kc/10.7 mc
- Power Supply 105-125 V., DC or 60 cycles AC
- Power Consumption . . . 28 Watts



ALIGNMENT PROCEDURE

- Generator connection See chart
- Generator ground See chart.
- Output meter connection Across voice call
- Electronic voltmeter See chart connection
- Volumn control position Maximum
- Tone control position Optional

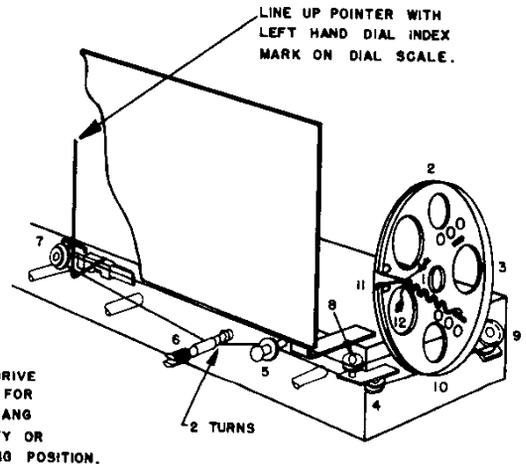
REPLACING LAMPS

Refer to Fig. 4. for the location of the dial lamps used in receiver. To gain access to the defective lamp, reach in through the cabinet cover and unclip the dial lamp socket by compressing the side springs. The socket may then be brought out into the open to change the defective lamp. Replace defective lamps with 6-8 V. Mazda #47 (Brown bead) lamps or equivalent.

The standard RMA dummy specified in the alignment chart consist of a 200 mmf condenser in series with a 20 uh r-f choke which is shunted by a 400 mmf condenser in series with a 400 ohm carbon resistor.

RESTRINGING DIAL CORD

To restring the dial cable, the chassis must be removed from the cabinet. Pull the four control knobs from their shafts, remove the three chassis screws at the bottom of the cabinet and lift the chassis from the cabinet through the top cover. Restringing the dial drive with a 48-inch length of 20 lb. test dial cord following the stringing sequence shown in Fig. 1. With the tuning condenser set at maximum capacity (closed) attach the dial pointer to the drive string and line it up with the left hand index mark on the dial scale.



DIAL DRIVE SHOWN FOR MAX. GANG CAPACITY OR INDEXING POSITION.

92 B 513

Fig. 1. Dial cable stringing procedure (92B513)

ALIGNMENT CHART

Dummy Antenna	Signal Generator Coupling	Signal Generator Frequency	Radio Range Switch Position	Radio Dial Setting	Adjust	Remarks
1. .01 mfd. cap.	High side to stator plates of high cap. mixer section. Generator ground to chassis.	455 kc	AM	1000 kc	A,B,C,D	Adjust for max. audio output at voice coil. Keep audio output below 50 mw to avoid AVC action.
2. .01 mfd. cap.	High side to stator plates of low cap. mixer section. Generator ground to chassis.	10.7 mc (No modulation)	FM	100 mc	E,F,G,H	Adjust for max. DC voltage between pin #7 of the 12 AL5 and ground buss. Connect a 500,000 ohm resistor in series with voltmeter probe. Use just enough signal generator output to obtain approx. 2 volts at the electronic voltmeter.
3. After completing the adjustments required by step 2, detune the signal generator on each side of 10.7 mc and note the generator dial or frequency reading for one half of the DC voltage measured by the electronic voltmeter. Use just enough signal generator output to obtain a maximum of 2 volts at the center frequency of the IF channel. Set the signal generator frequency at the midpoint of the two readings obtained above and align the FM detector transformer as follows:						
4. Without changing the setup, adjust the primary of the FM detector transformer (I) for maximum DC voltage. Disconnect the electronic voltmeter probe and reconnect it at the junction of R-13 and 14 using the 500,000-ohm resistor as before for isolation. Adjust the secondary of the FM detector (J) for the null or zero DC voltage. This completes the IF amplifier adjustment.						
5. Std. RMA dummy	To terminals "D-D" on rear chassis apron. Connect RMA dummy to unby-passed terminal.	1500 kc	AM	1500 kc	*K,L	Adjust for max. audio output as in step 1.
		600 kc	AM	600 kc	*M	
6. 300-ohm carbon resistor	To terminals "D-D" on rear chassis apron. Connect resistor to high side or unby-passed terminal.	108 mc	FM	108 mc	*N,O	Adjust for max. DC voltage as in step 2.

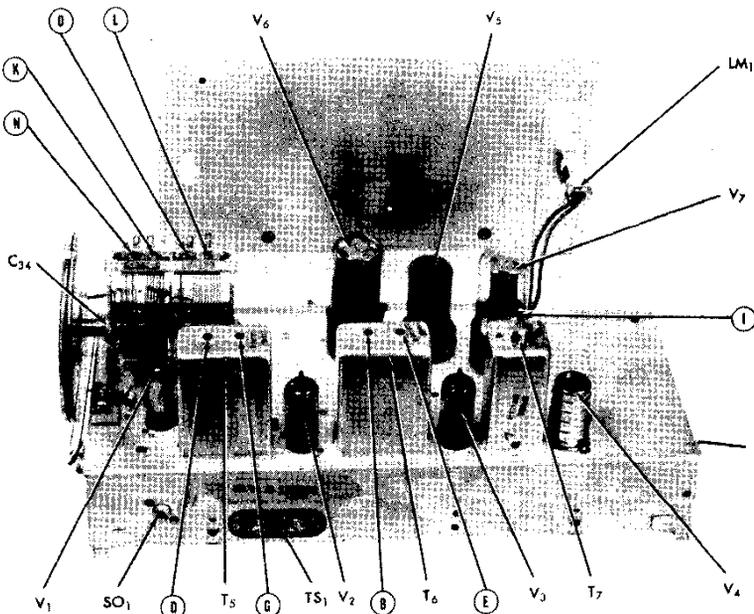
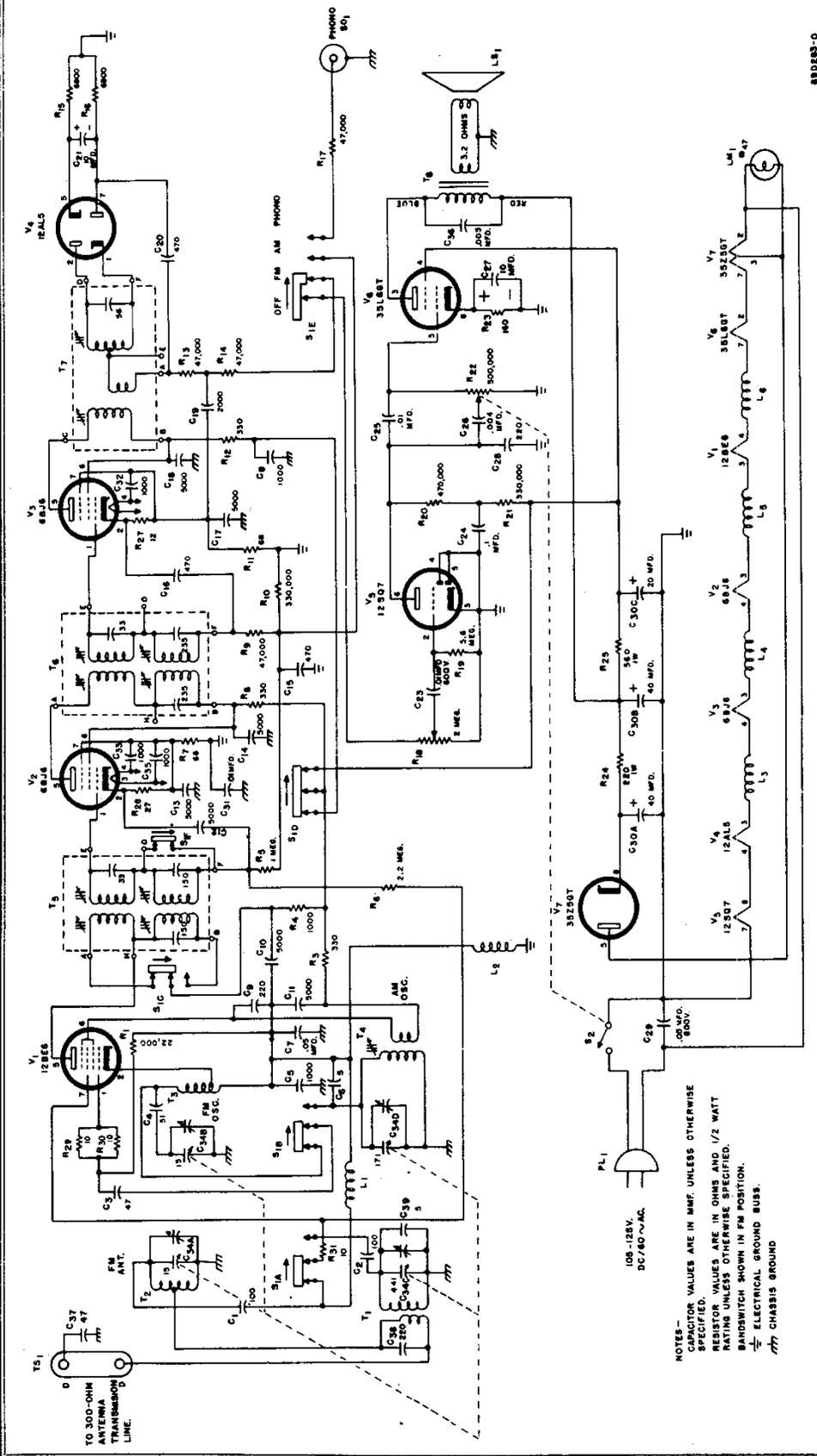


Fig. 2. Top view, alignment, adjustments and component location

MODEL S-58

THE HALLICRAFTERS CO.



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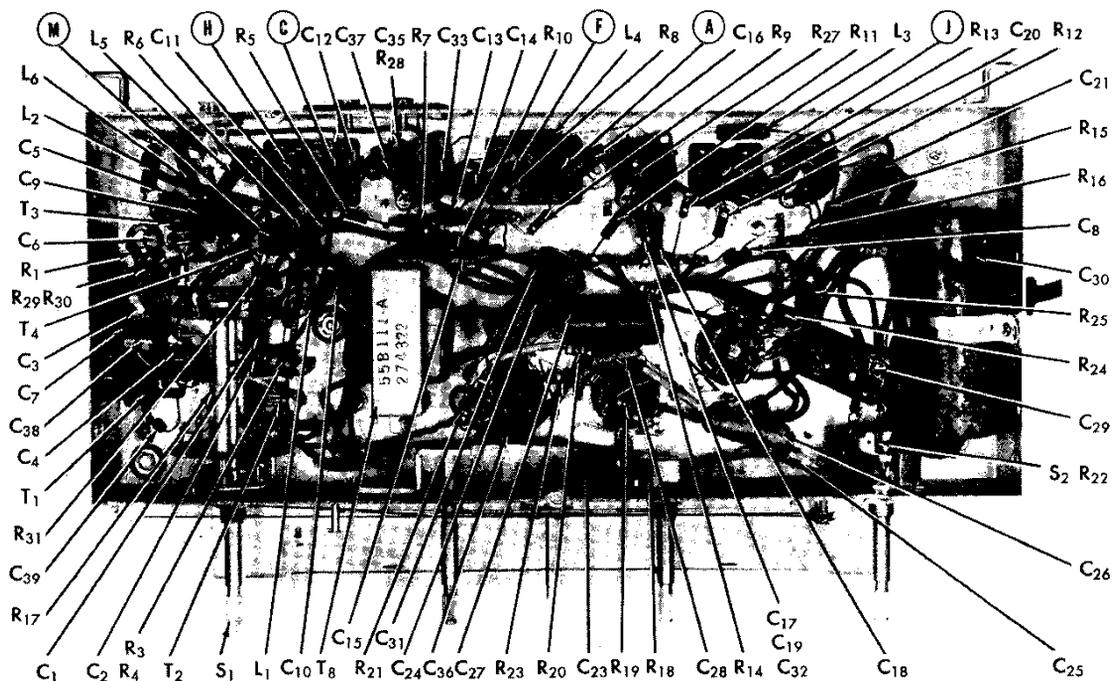
FIG. 6. Schematic diagram.

NOTES—
 CAPACITOR VALUES ARE IN MFD UNLESS OTHERWISE SPECIFIED.
 RESISTOR VALUES ARE IN OHMS AND 1/2 WATT RATING UNLESS OTHERWISE SPECIFIED.
 BANDSWITCH SHOWN IN FM POSITION.
 ELECTRICAL GROUND BUSH.
 CHASSIS GROUND

LAST C SYMBOL — C-39
 LAST R SYMBOL — R-31

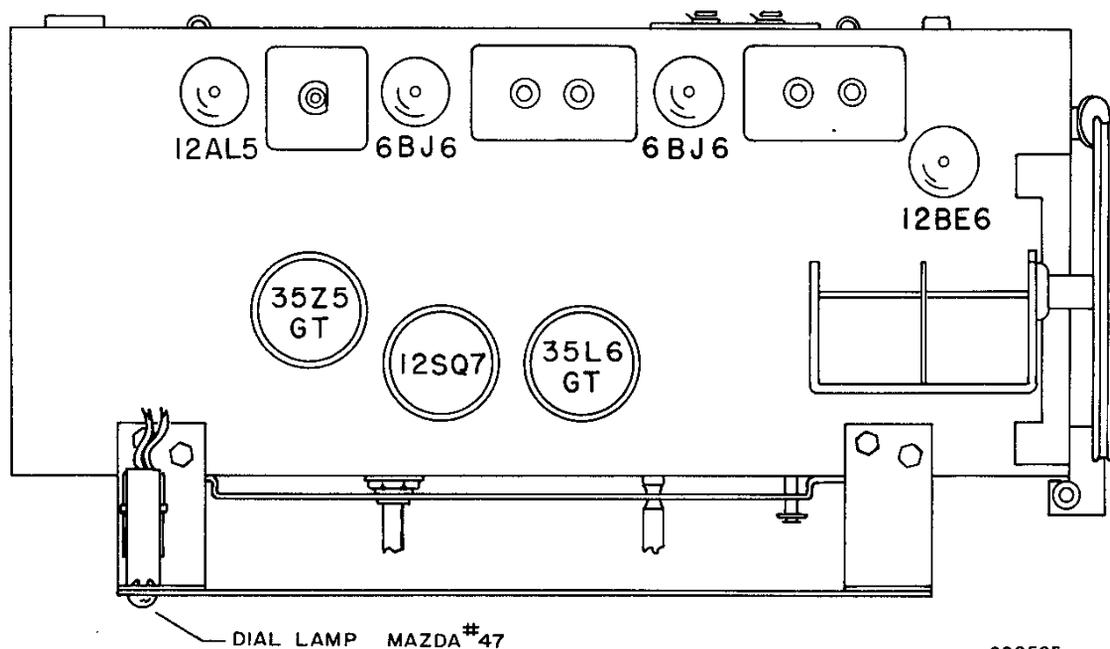
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MODEL S-58



92X512

Fig. 3. Bottom view, alignment adjustments and component location



92C505

Fig. 4. Top view, location of tubes and dial lamps.

MODEL S-58

THE HALLICRAFTERS CO.

SERVICE PARTS LIST

Description	Hallicrafters Part Number	Hallicrafters Part Number	Ref. No.	Ref. No.	Description
COILS AND TRANSFORMERS (Cont.)					
Transformer, AM osc. stage	51B1063	CC26UK101K	T-4	C-1,2	100 mmf. 500 V., ceramic
Transformer, 1st IF stage	50B399	CC21UK470K	T-5	C-3	47 mmf. 500 V., ceramic
Transformer, 2nd IF stage	50B400	CC21UK510J	T-6	C-4	51 mmf. 500 V., ceramic
Transformer, ratio detector	50B401	47B20A102N5	T-7	C-5,8,32,33	1000 mmf. 500 V., ceramic
Transformer, audio output	55B111		T-8	35	
		CC21UK050K		C-6	5 mmf. 500 V., ceramic
		46AY503J		C-7	.05 mfd. 600 V., tubular
		CM20A221M		C-9,28,38	220 mmf. 500 V., mica
		47A168	S-1	C-10,11,12,	5000 mmf. 500 V., ceramic
			S-2	13,14,17,	
				18,36	
		CM20A471M		C-15,16,20	470 mmf. 500 V., mica
		47B20A202M5		C-19	2000 mmf. 500 V., ceramic
		45A121		C-21,27	10 mfd. 25 V., electrolytic
		46AZ103J	PL-1	C-23,25,31	.01 mfd. 600 V., tubular
		46AU104J		C-24	.1 mfd. 200 V., tubular
		46AZ402J		C-26	.004 mfd. 600 V., tubular
		46AR503J	SO-1	C-29	.05 mfd. 600 V., molded paper
		45B130		C-30	40-40-20 mfd. 150 V., electrolytic
				C-34	Capacitor, main tuning
		48C203		C-37	47 mmf. 500 V., mica
		CM20A470M		C-39	5 mmf. 500 V., bakelite
		47A160-6			
			V-1		
			V-2		
			V-3		
		RC20AE223K		R-1	22,000 ohms $\frac{1}{2}$ watt, carbon
		RC20AE331M		R-3,8,12	330 ohms $\frac{1}{2}$ watt, carbon
		RC20AE102M	V-4	R-4	1000 ohms $\frac{1}{2}$ watt, carbon
		RC20AE105M	V-5	R-5	1 megohm $\frac{1}{2}$ watt, carbon
		RC20AE225M	V-6	R-6	2.2 megohms $\frac{1}{2}$ watt, carbon
		RC20AE680K	V-7	R-7,11	68 ohms $\frac{1}{2}$ watt, carbon
		RC20AE473M	LM-1	R-9,13,14,17	47,000 ohms $\frac{1}{2}$ watt, carbon
		RC20AE334M		R-10,21	330,000 ohms $\frac{1}{2}$ watt, carbon
		RC20AE682K		R-15,16	6800 ohms $\frac{1}{2}$ watt, carbon
		25B824		R-18	2 megohms, VOLUME control
		RC20AE565M		R-19	5.6 megohms $\frac{1}{2}$ watt, carbon
		RC20AE474M	TS-1	R-20	470,000 ohms $\frac{1}{2}$ watt, carbon
		25B758		R-22	500,000 ohms, TONE control (switch S2)
		RC20AE151K		R-23	150 ohms $\frac{1}{2}$ watt, carbon
		RC30AE221M		R-24	220 ohms 1 watt, carbon
		RC30AE561K		R-25	560 ohms 1 watt, carbon
		RC20AE120K		R-27	12 ohms $\frac{1}{2}$ watt, carbon
		RC20AE270K		R-28	27 ohms $\frac{1}{2}$ watt, carbon
		RC20AE100K		R-29,30,31	10 ohms $\frac{1}{2}$ watt, carbon
		53B153		L-1,2,3,4,5,	Coil, R.F. choke
				6	
		51B1064		T-1	Transformer, AM antenna stage
		51A1061		T-2	Transformer, FM mixer stage
		51A1082		T-3	Transformer, FM osc. stage
CONDENSERS					
SWITCHES					
Switch assembly, band selector	60B328				
Power switch, part of tone control, R-22					
PLUGS AND SOCKETS					
Line cord and plug	87B1669				
Socket, miniature (tube)	6A308				
Socket, octal (tube)	8A296				
Receptacle, phono.	36A029				
Socket, dial light	86A036-4				
TUBES, RECTIFIERS AND LAMPS					
Type 12BE6, mixer/osc.	90X12BE6				
Type 6BJ6, 1st IF amp.	90X6BJ6				
Type 6BJ6, 2nd IF amp. (FM) & detector (AM)	90X6BJ6				
Type 12AL5, detector (FM)	90X12AL5				
Type 12SQ7, audio amp.	90X12SQ7				
Type 35L6 GT, audio power amp.	90X35L6GT				
Type 35Z5GT, rectifier	90X35Z5GT				
Dial lamp, 6-8 V., Mazda #47 (brown bead)	39A004				
MISCELLANEOUS					
Terminal strip, antenna	88A379				
Lock, line cord	76A397				
Escutcheon	7D067-3				
Dial glass (clear)	22B205				
Clip, dial glass	76A331				
Grill, speaker	7C016-2				
Speaker, P.M.	85B050				
Dial plate	63B332				
Dial background (black)	32A446				
Dial scale (glass)	22C212				
Clip, dial scale	76A390				
Spacer, rubber	16A126				
Pointer, dial	82A152				
Shield, miniature tube	69A332				
Knob, OFF-ON-TONE and FM-AM-PHO controls	15B142-1				
Knob, VOLUME and TUNING controls	15B067-3				