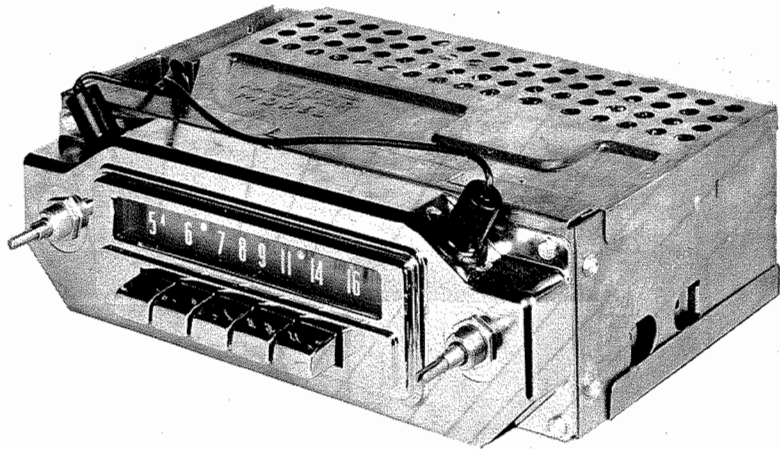




MOPAR
MODEL 858

MOPAR
MODEL 858



TRADE NAME Mopar Model 858 (94BC) for 1959 Chrysler Automobiles
MANUFACTURER Philco Corp., Tioga & "C" Streets, Philadelphia, Pa.
TYPE SET Battery Operated 4 Tube Custom Built AM Automobile Receiver with Transistorized Output

POWER SUPPLY 12 Volt Storage Battery
TUNING RANGE—BROADCAST 530-1605 KC

RATING 1.4 Amp. @ 12.6 Volts DC

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Set Volume at MINIMUM. Set Tone fully clockwise.
Use only enough generator output to provide a usable indication on VTVM.
Suggested Alignment Tools: A1 thru A4 GENERAL CEMENT #8606, 8606L, 8282, 9295
WALSCO #2526, 2543, 2544, 2545
A5, A6 GENERAL CEMENT #5000, 5003, 8276, 8290
WALSCO #2512, 2525
A8, A9, A10 GENERAL CEMENT #9050L, 9150
WALSCO #2521

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
1. .1mfd	High side to pin 7 (grid) of converter. Low side to chassis.	262.5KC (Unmod)	High Freq. end stop	DC probe to point Δ . Common to chassis.	A1, A2, A3, A4	Adjust for maximum deflection.
2. Fig. 1	Thru dummy (Fig.1) to antenna receptacle	1605KC	"	"	A5, A6, A7	"
Step 3 is not necessary unless tuner has been tampered with or associated components have been replaced. Back tuning cores A8, A9 and A10 out of coils. Repeat step 2.						
3. Fig. 1	Thru dummy (Fig.1) to antenna receptacle	1200KC	Tuner carriage .285 inch from high end stop.	DC probe to point Δ . Common to chassis.	A8, A9, A10	Adjust for maximum deflection. Repeat steps 2 and 3.

PUSHBUTTON ADJUSTMENT

1. Tune manually to desired station.
2. Pull out pushbutton; press in firmly.
3. Repeat for remaining pushbuttons.

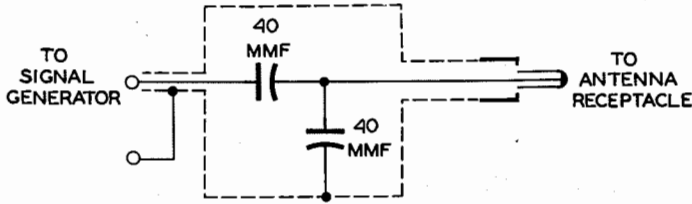


FIG.1

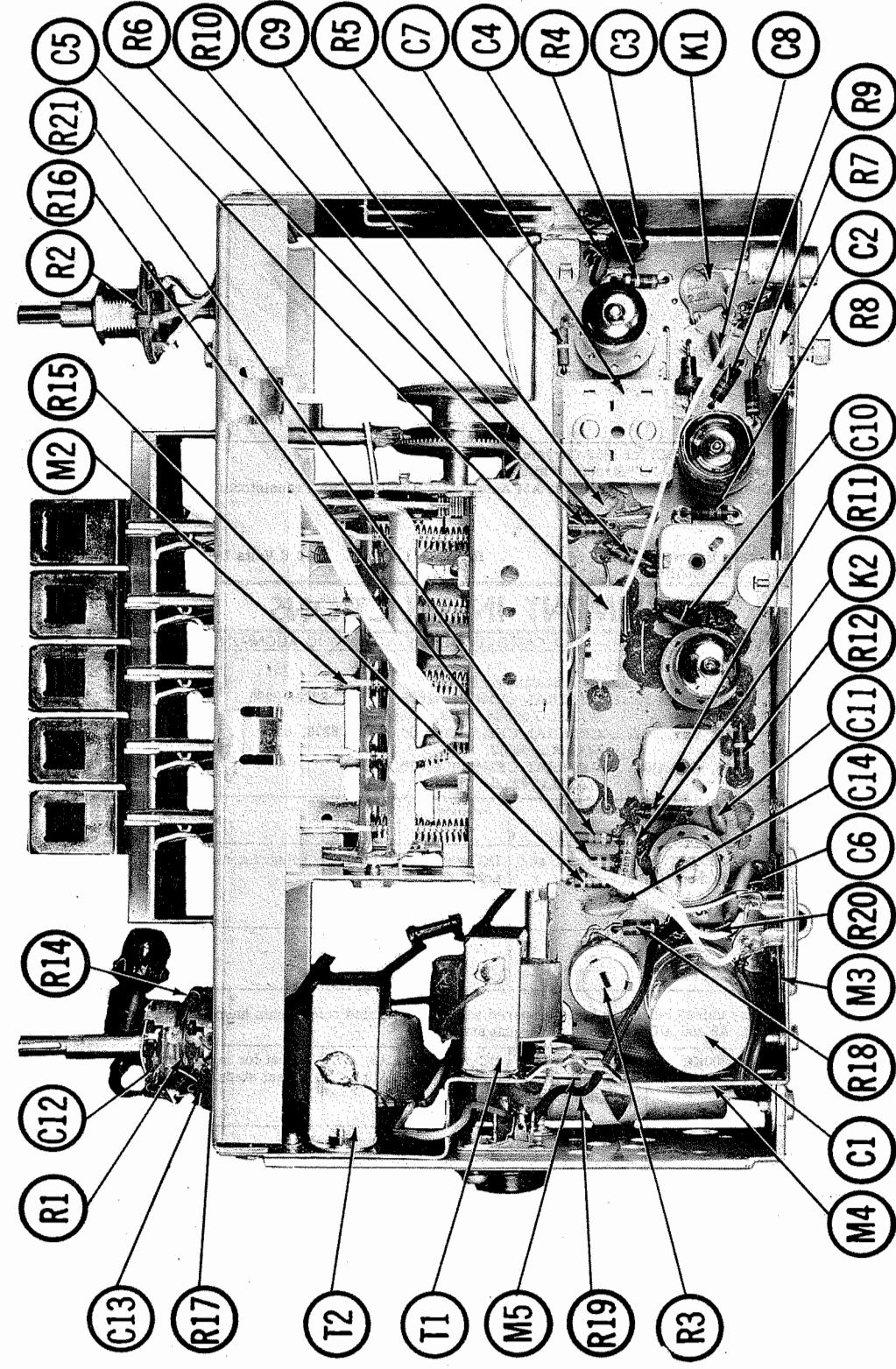
HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of JD258

the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1959 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America

MOPAR
MODEL 858

SET 457
FOLDER 11



CHASSIS TOP VIEW - CAPACITOR, RESISTOR, MISC, & TRANS IDENT.

TUBES (GENERAL ELECTRIC, SYLVANIA)

PARTS LIST AND DESCRIPTIONS

CONTROLS

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	RF Amplifier Converter	12BL6		V3	IF Amplifier Det. -AVC-AF Amp.	12EK6	
V2		12AD6		V4		12FM6	12FK3 *

* Alternate.

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			CBS PART No.	RCA PART No.	RAYTHEON PART No.	
X1	2N1009	Driver	2N256A	2N1009		PNP
X2	2N235A	Output	2N256A	2N301	2N235A	PNP, Note 1

Note 1. When replacing, apply silicone grease to both sides of insulator.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	VOLT.	TOL.	REPLACEMENT DATA	NOTES
	CAP.			CORNELL-DUBIER PART No.	
C1A	500	16	220353-13	BENDIX PART No.	
C1B	250	16			
C1C	250	16			

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	VOLT.	TOL.	REPLACEMENT DATA	NOTES
	CAP.			AEROVOX PART No.	
C2	4-75			BENDIX PART No.	
C3	110	5%			
C4	33				
C5	1	100			
C6	0.1	100			
C7A	80-230				
C7B	370-445				
C8	82	10%			
C9	51	N750 10%			
C10	1000				
C11	88				
C12	3900				
C13	1500				
C14	10000				

Some versions may use film in this application (Part #220353-47).

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (DRIVER)

ITEM No.	URNS RATIO	REPLACEMENT DATA	NOTES
	PRI. SEC.	Merit PART No.	
T1	5-8 1	2090700-2	

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA	NOTES
	PRI.	Merit PART No.	
T2	222 tap @ 3-40	2090648-4	

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	BENDIX PART No.	QUAM PART No.	
SP1	5" x 7" PM	3-40		2090744-2 ①	57A21	① Includes cover.

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	BENDIX PART No.	REPLACEMENT DATA
K1	RF Cathode	220mmf, 2200Ω		
K2	AF Amp. Plate	4500mmf, 6800Ω		

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA
			BENDIX PART No.
M1	SF2	7.5A 32V	30707-5 (TAG 7½A 32V)

Located on fuse block in auto.

MISCELLANEOUS

ITEM No.	PART NAME	BENDIX PART No.	NOTES
M2	Tuner	2090682-4	
M3	Spark Plate	220267-12	Complete
M4	Spark Plate	220267-16	300mmf
M5	Printed Board	2090944-1	280mmf

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob Ass'y.	2090782-2	
Pushbutton Ass'y.	2090940-1	
Dial Glass	2090780-1	
Printer	2090129-13	

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8830 (Solid) Available in Ten Colors
Shielded Hook-up Wire Use BELDEN No. 8834 (Stranded) Available in Ten Colors
Bonding Strap Use BELDEN No. 8885
..... Use BELDEN No. 8881

ITEM No.	RATING	REPLACEMENT DATA	INSTALLATION NOTES
	RESIST. ANCE	WATTS	
R1A	2meg	2090687-2	
R1B	2meg		
R1C	Switch		
R1D	Bushing		
R2	300	2090627-2	
R3	300	2090181-6	

† "Concentrict" Equivalent: K-8 Kit with Base Elements & Shafte: B11-139, P14-028 (Panel) B18-135X, R9-110 (Rear) 78-2 (Switch) S-11 (Bushing)

* "STA-LOC" Equivalent: F226L, RU26T16, O8812, I8312, U9432.

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA	NOTES
	OHMS	WATT	
R4	680K	220604B-484	
R5	220K	220604B-224	
R6	15meg	220604B-156	
R7	4.7meg	220603B-475	
R8	3.3meg	220604B-333	
R9	33K	220604B-333	
R10	47meg	220604B-476	
R11	2.2meg	220603B-225	
R12	150K	220604B-154	

COILS (RF-IF)

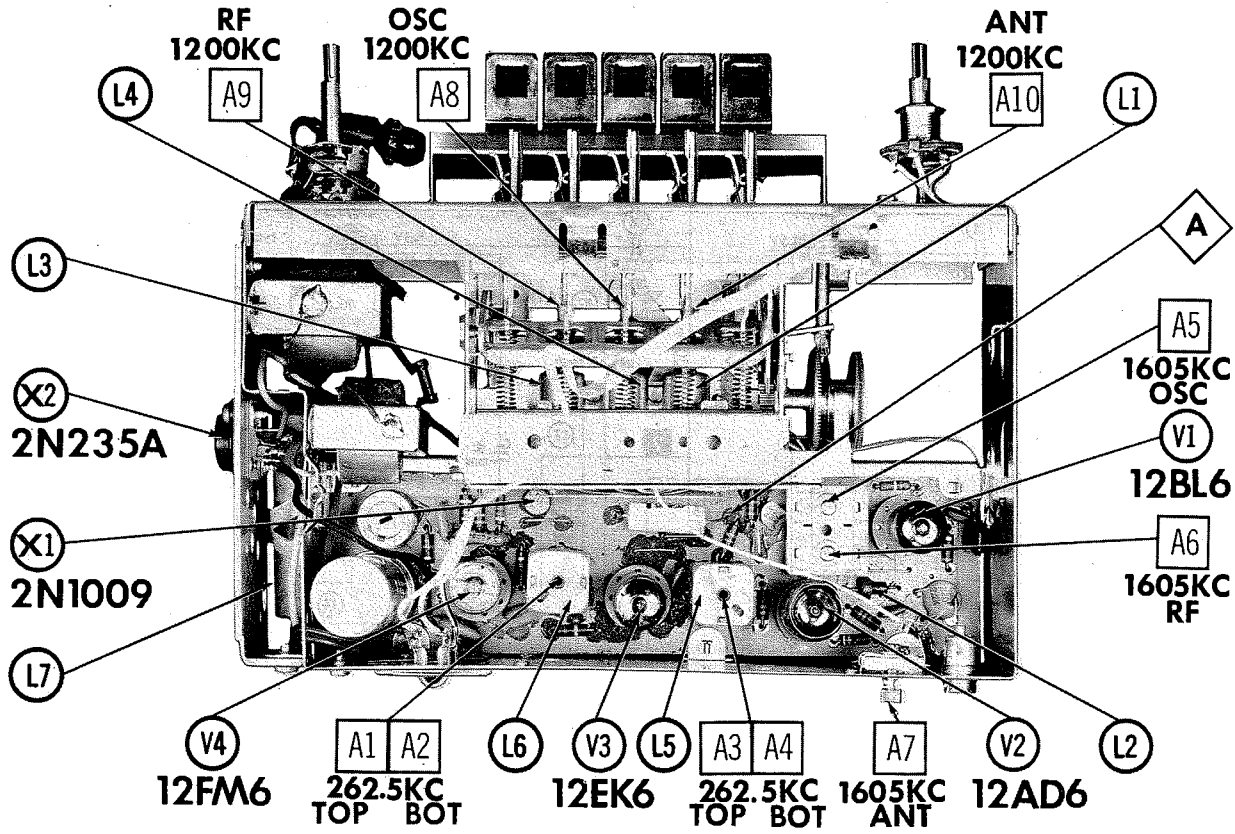
ITEM No.	USE	BENDIX PART No.	NOTES
L1	Ant. Tuning Coil	2090088-5	
L2	RF Choke	2090088-5	
L3	RF Tuning Coil	2090878-1	
L4	Sec. Tuning Coil	2090877-1	
L5	Input IF Trans.		
L6	Output IF Trans.		

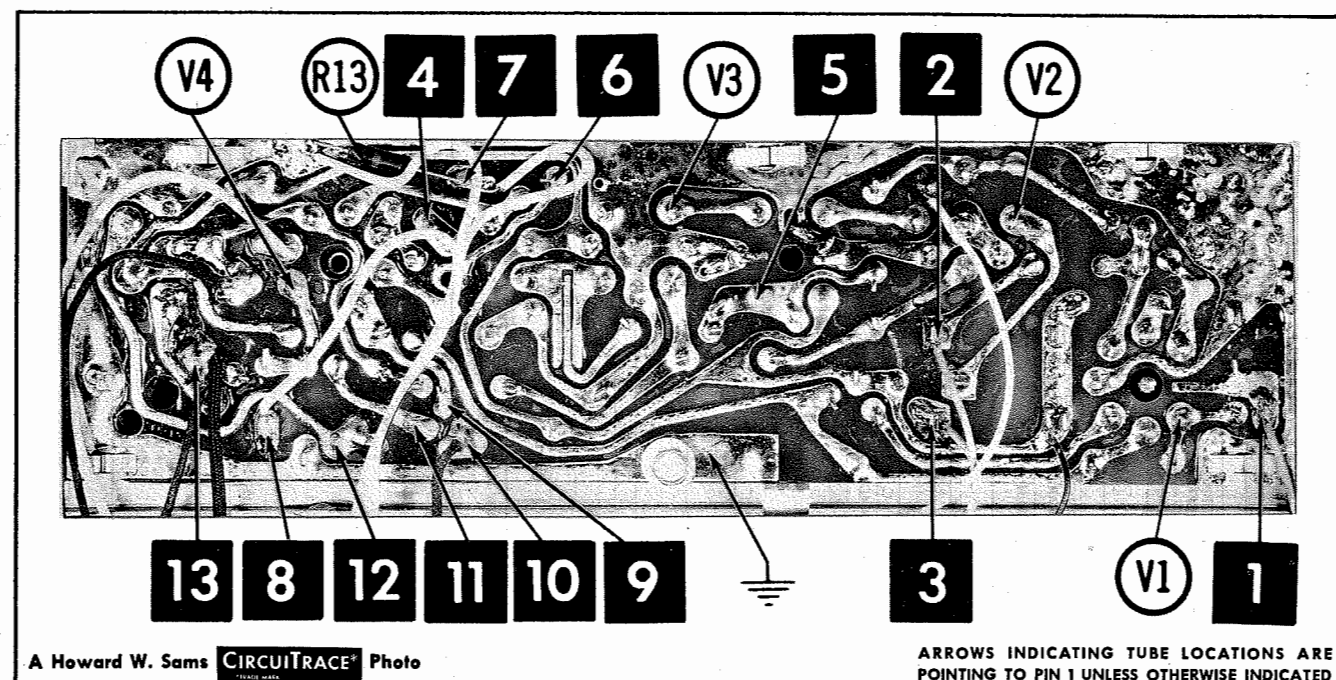
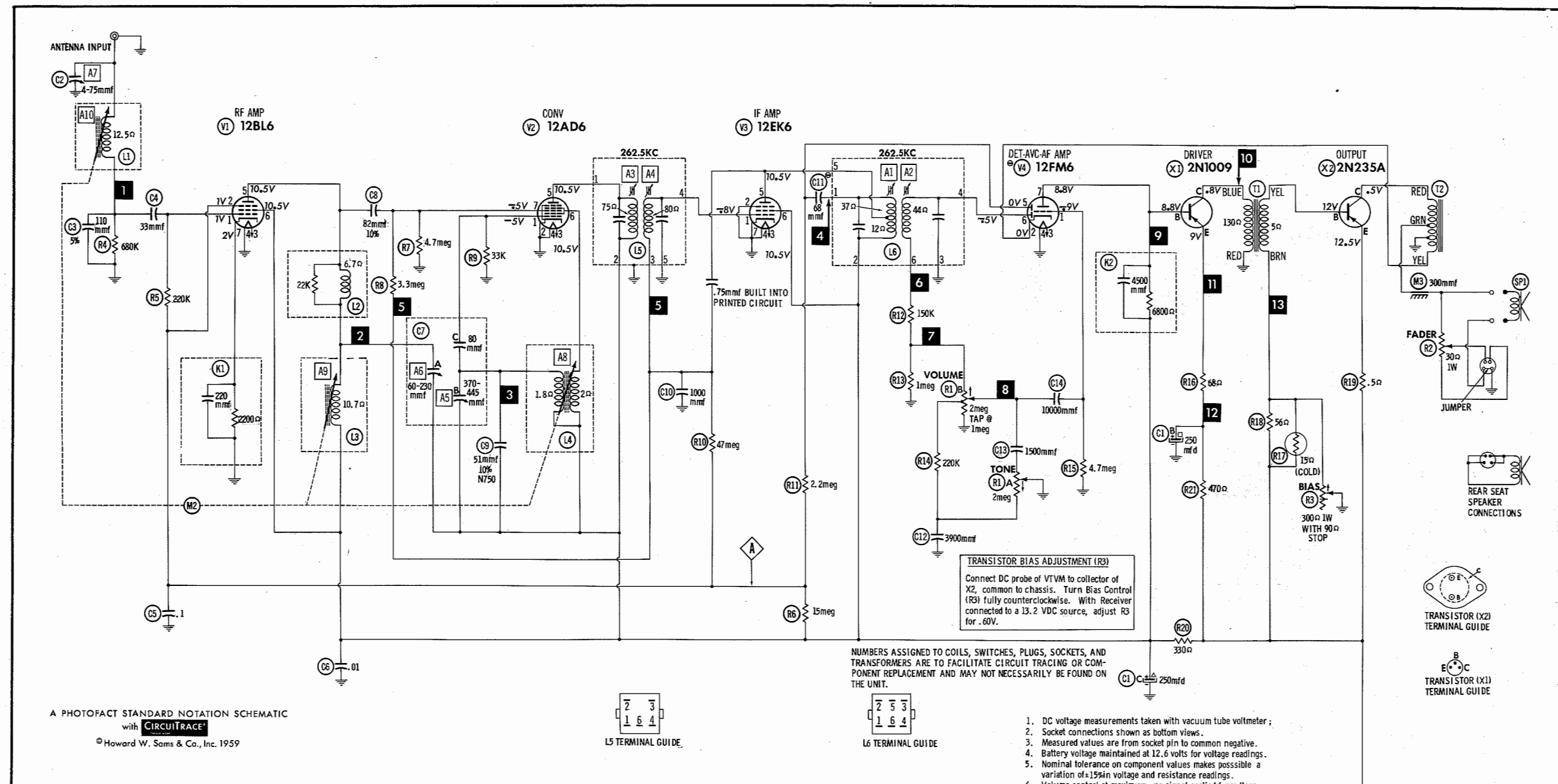
Wound on 22K resistor.

FILTER CHOKE

ITEM No.	RATINGS	REPLACEMENT DATA	NOTES
	DC RES. (Ω)	INDUCTANCE (μH)	
L7	1.4A	.36	.0015 Hr.

CHASSIS—TOP VIEW





MOPAR
MODEL 858