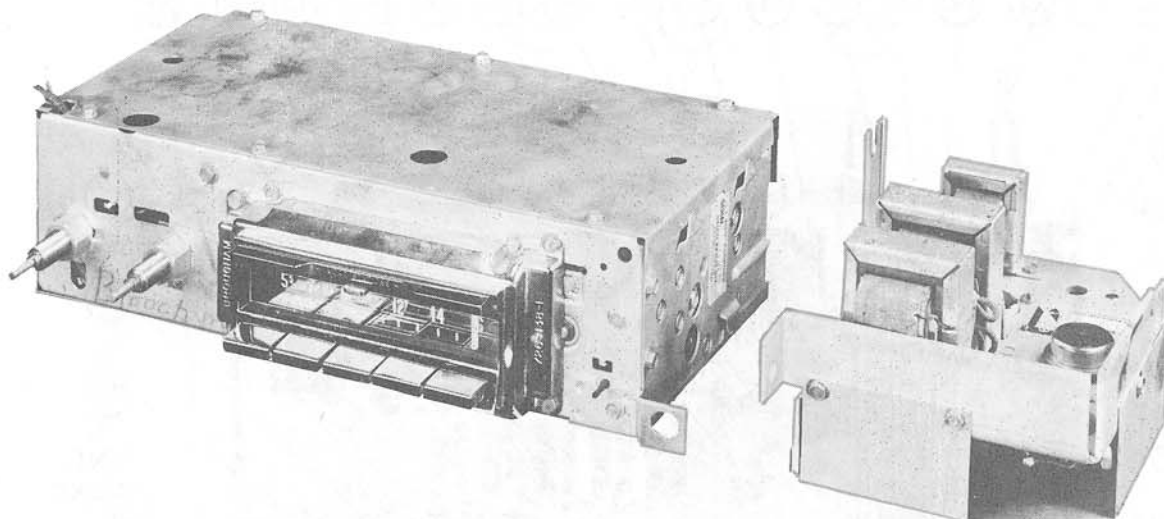


PHOTOFACT* Folder


**CADILLAC
MODEL 7268085**
**CADILLAC
MODEL 7268085**


TRADE NAME		Cadillac Brougham Model 7268085 (For 1957 Cadillac Brougham Automobiles)				
MANUFACTURER		Delco Radio Div., G. M. Corp., Kokomo, Indiana				
TYPE SET		Battery Operated Custom Built Transistorized AM Automobile Receiver				
POWER SUPPLY		12 Volts DC		RATING		350MA @ 12.6 Volts DC (Before Serial #HD80)
TUNING RANGE—BROADCAST		540-1600KC				2000MA @ 12.6 Volts DC (After Serial #HD80)
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
Set sensitivity and volume controls to maximum, tone control to treble. Attenuate signal generator so that VTVM readings do not exceed 3 Volts. Use an insulated alignment screwdriver for adjusting. Signal generator return lead should be very short.						
To set receiver to high frequency end, put a .018" feeler gauge (or bare #25 wire) in slot against high frequency stop. Press station bar and allow planetary arm to run against feeler gauge. Turn off receiver, then on.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
1.	High side to point B Low side to chassis.	262KC	High freq. end. (See alignment instructions)	DC probe to point A Common to chassis.	A1	Adjust for maximum deflection.
2.	"	"	"	"	A2	Adjust for MINIMUM deflection.
3.	High side to point C Low side to chassis.	"	"	"	A3, A4 A5, A6	Adjust for maximum deflection.
Check setting of oscillator coil core (A10). Rear of core should be 1 5/8" from mounting end of coil form. Antenna and RF coil cores (A11 & A12) should be as far from the mounting end of their coils as the oscillator coil core.						
4.	82mmf High side to antenna terminal. Low side to chassis.	1615KC	High freq. end. (See alignment instructions)	DC probe to point A Common to chassis.	A7, A8 A9	Adjust for maximum deflection.
5.	82mmf	600KC	Tune to 600KC signal	"	A10, A11 A12	"
6.	82mmf	1615KC	Tune to 1615KC signal	"	A8, A9	"
With radio installed in car and antenna fully extended, tune in a weak station between 600KC and 1000KC and adjust A9 for maximum output.						
POINTER ADJUSTMENT						
If necessary, turn pointer adjustment so that pointer coincides with 900KC on the dial when receiving a 900KC signal.						
PUSHBUTTON ADJUSTMENT						
1. Turn on receiver and allow a 10 minute warm-up period.						
2. Extend antenna fully.						
3. Pull pushbutton to the left and out.						
4. Tune manually to desired station. Press pushbutton in firmly.						
5. Repeat for remaining pushbuttons.						

HOWARD W. SAMS & CO., INC. • Indianapolis 5, 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 H245

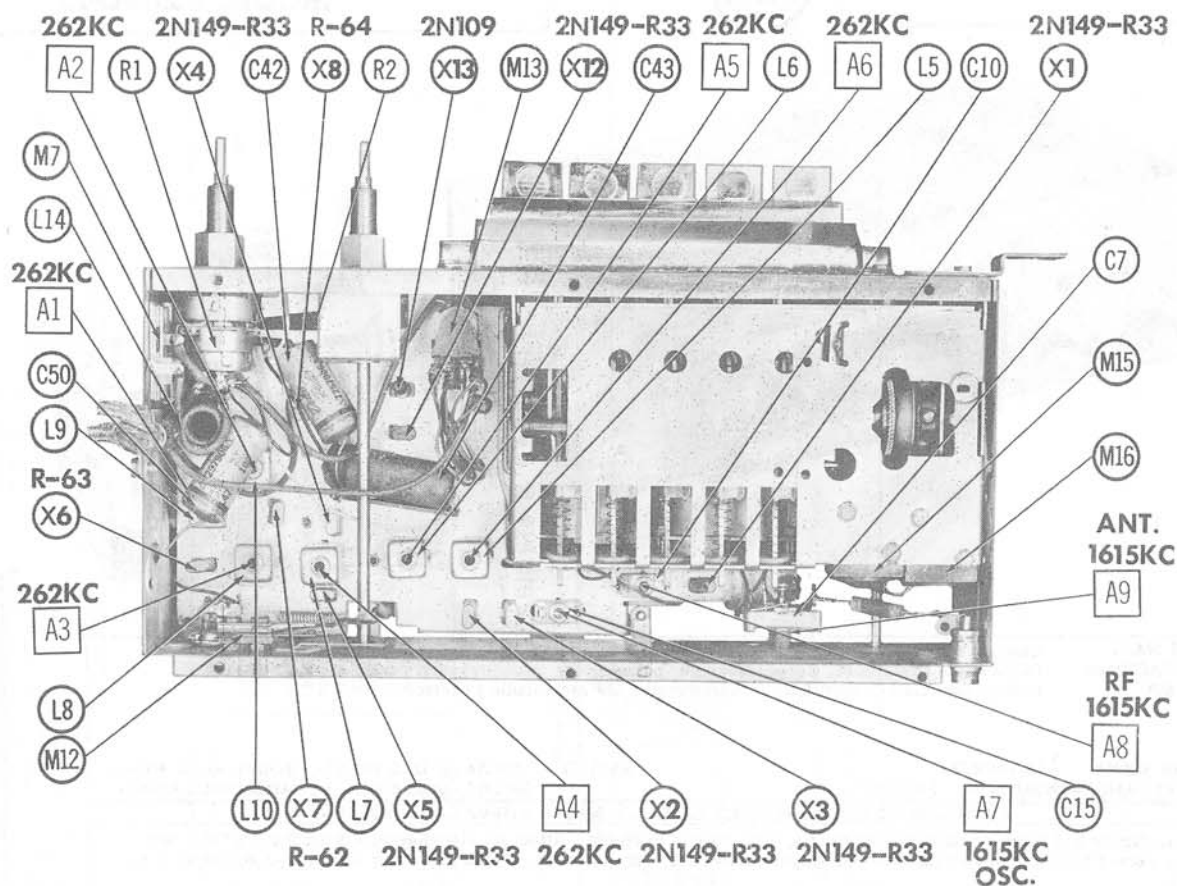
the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1958 Howard W. Sams & Co., Inc., Indianapolis 5, Indiana. Printed in U.S. of America

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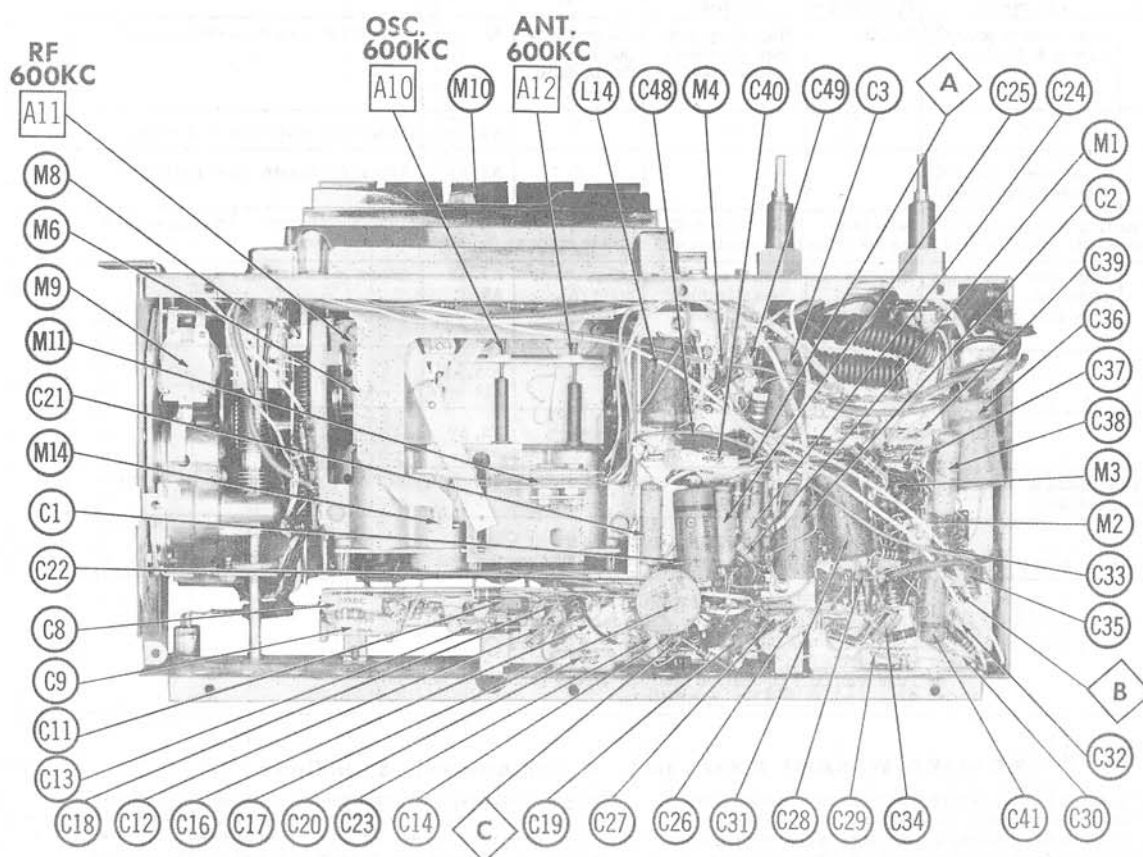
SET 389

FOLDER 6

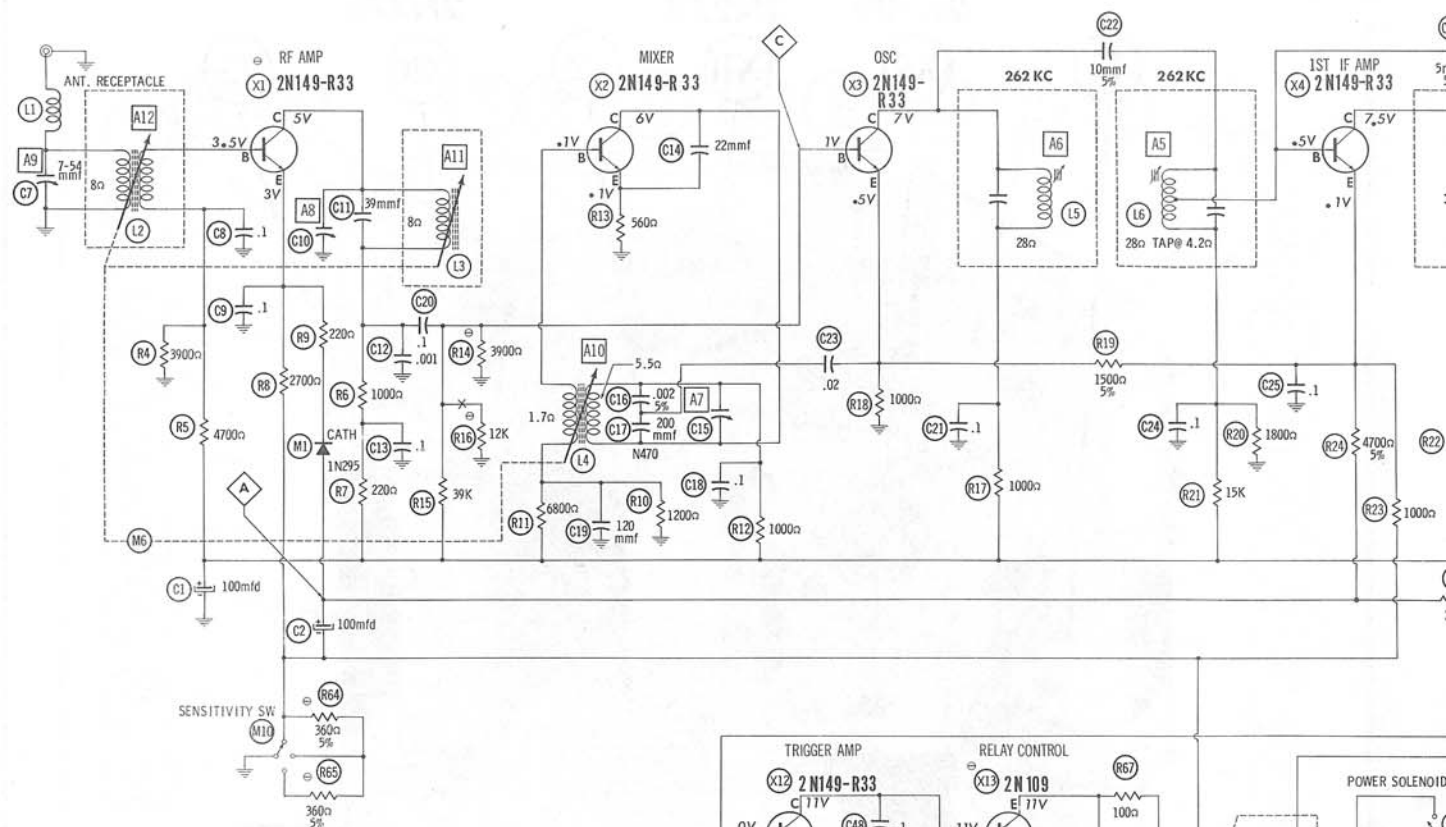
**CADILLAC
MODEL 7268085**



CHASSIS TOP VIEW



CHASSIS BOTTOM VIEW - CAPACITOR & MISCELLANEOUS IDENTIFICATION



RESISTANCE MEASUREMENTS NOT GIVEN FOR X10 & X11 BECAUSE OF WIDE VARIATION IN INTERNAL TRANSISTOR RESISTANCE

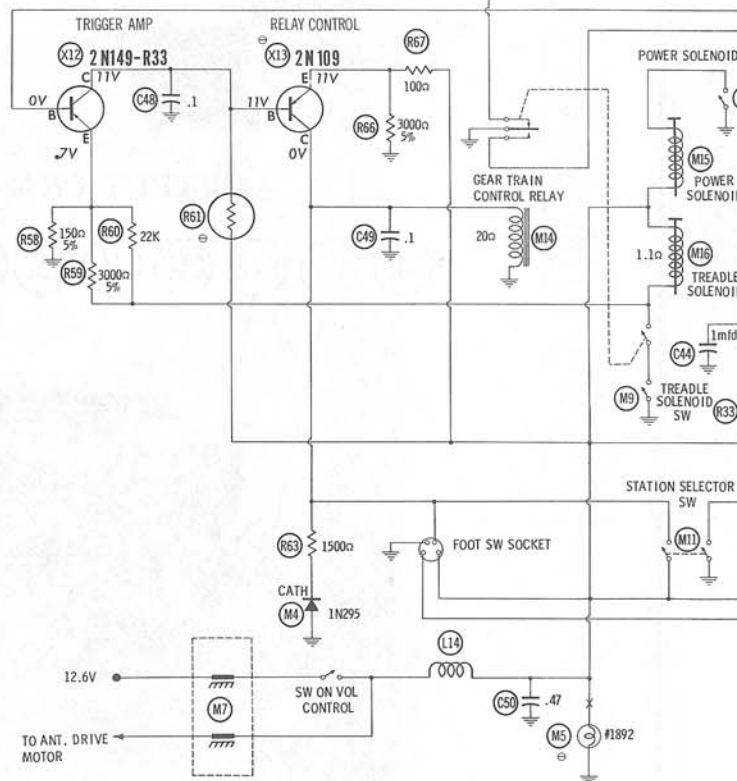
ITEM	TYPE	BASE	EMITTER	COLLECTOR
X1	2N149-R33	2300Ω	2000Ω	†1700Ω
X2	2N149-R33	1100Ω	560Ω	†1500Ω
X3	2N149-R33	2800Ω	700Ω	†1500Ω
X4	2N149-R33	1500Ω	1400Ω	†1500Ω
X5	2N149-R33	520Ω	2200Ω	†1500Ω
X6	R63	85Ω	330Ω	†100Ω
X7	R62	95Ω	1150Ω	†20Ω
X8	R64	5700Ω	5000Ω	†750Ω
X9	2N109	†850Ω	†200Ω	190Ω
X12	2N149-R33	0Ω	150Ω	†11Ω
X13	2N109	†11Ω	110Ω	270Ω

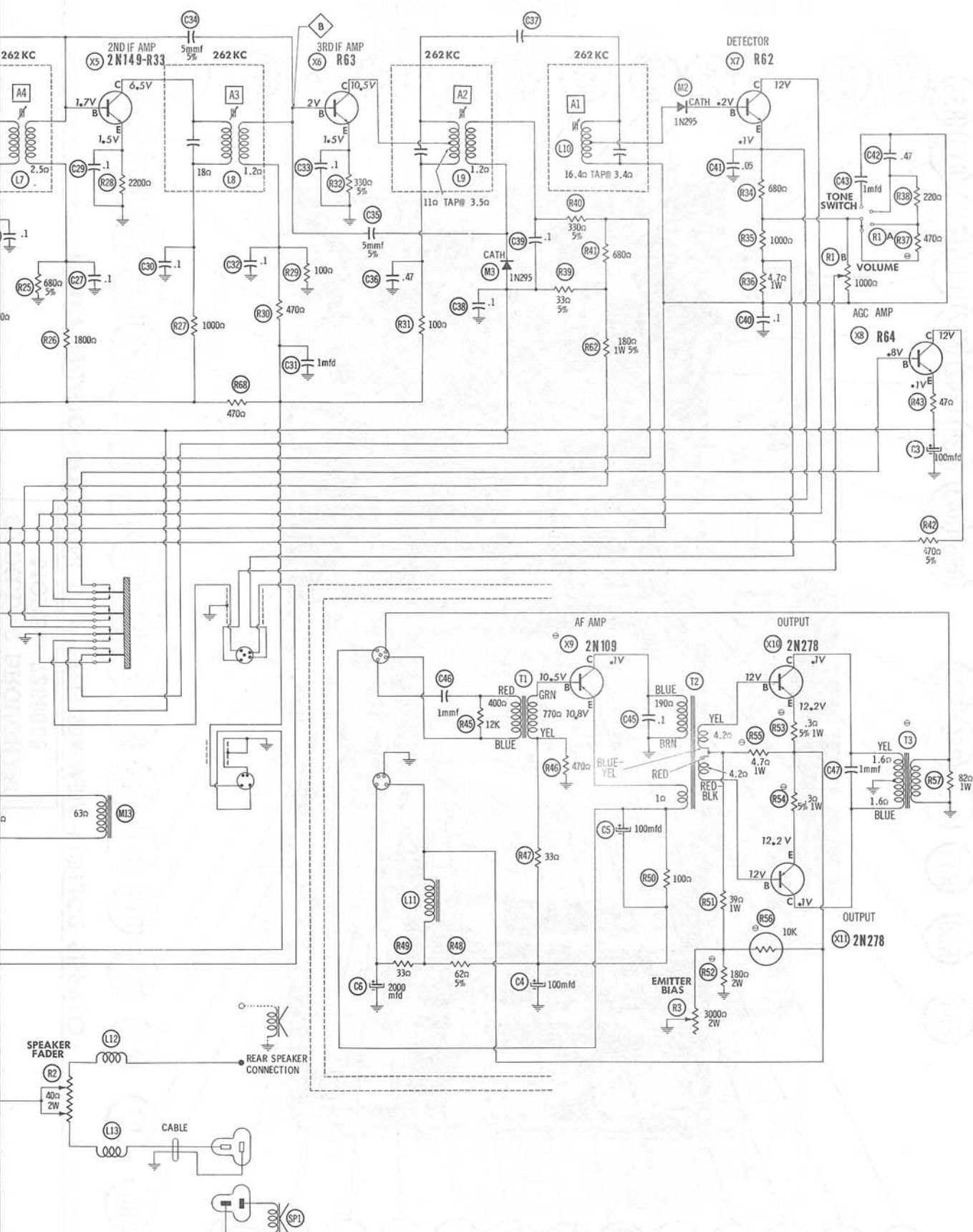
TRANSISTORS REMOVED FOR RESISTANCE MEASUREMENTS
† MEASURED FROM JUNCTION OF L14 AND C50

- DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
- Socket connections shown as bottom views.
- Measured values are from socket pin to common negative.
- Battery voltage maintained at 12.6 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage measurements.

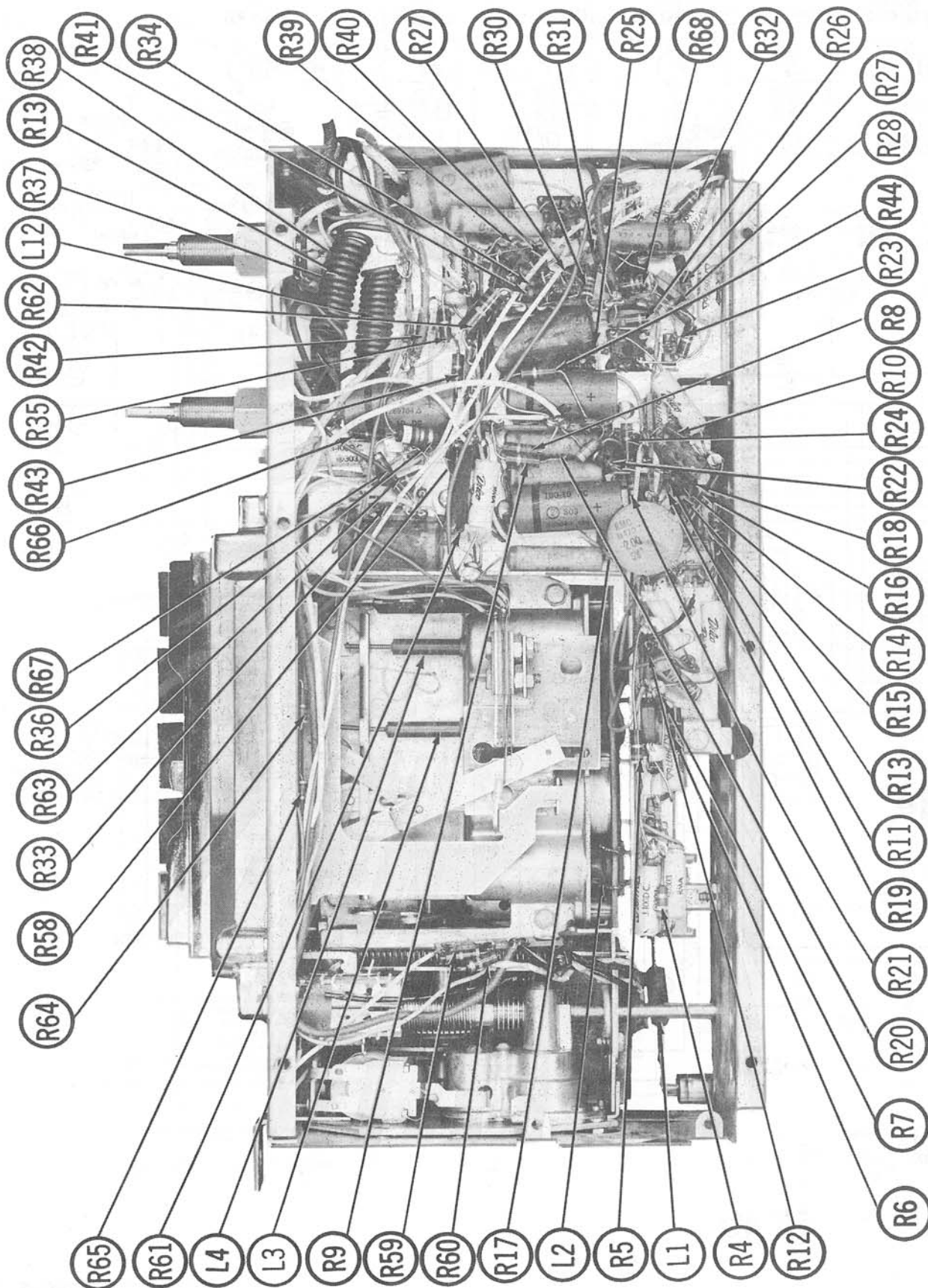
SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC



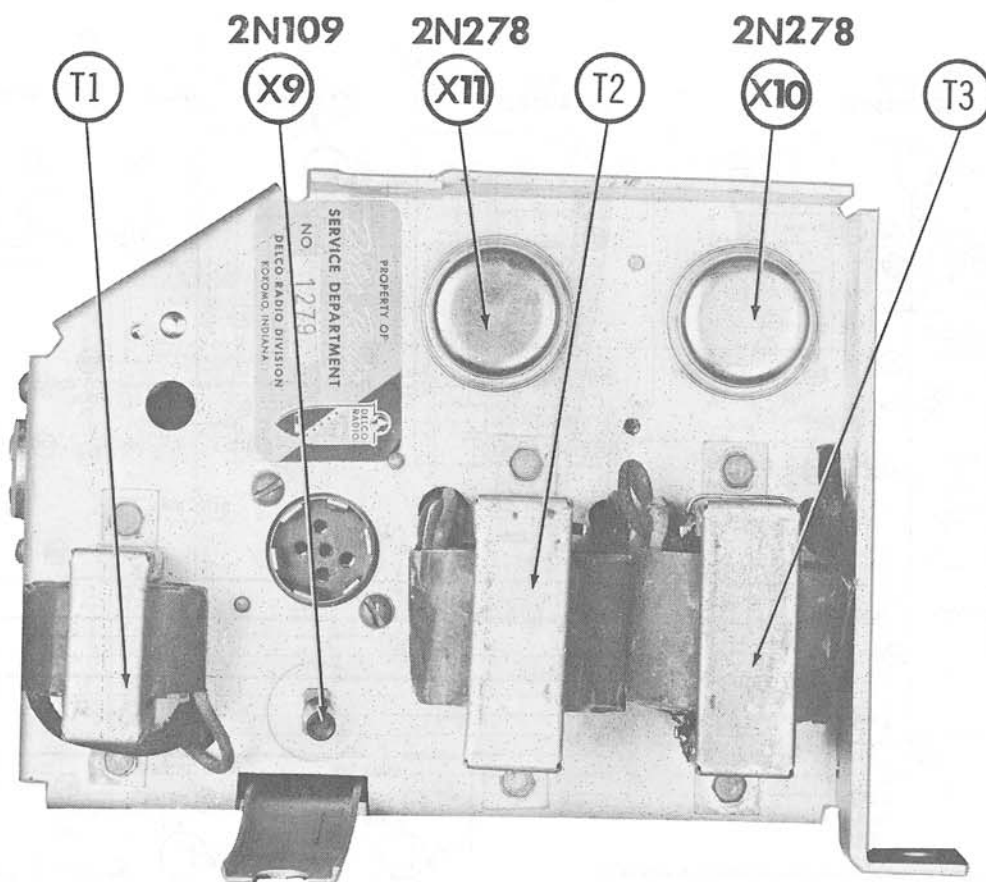


389-6

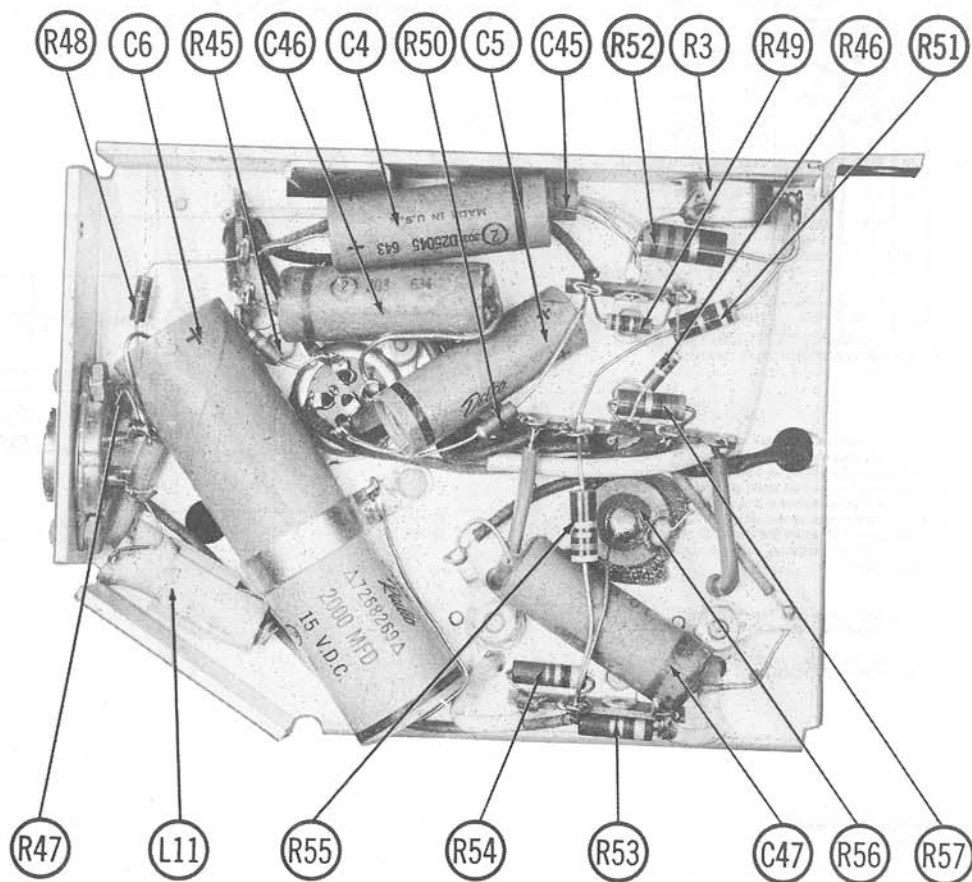


FOLDER 6

CADILLAC BROUGHAM
MODEL 7268085



OUTPUT CHASSIS - TOP VIEW



OUTPUT CHASSIS - BOTTOM VIEW

PARTS LIST AND DESCRIPTIONS TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			CBS PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
X1	2N149-R33	RF Amplifier	2N440			A 2N150-R34 may be used in some versions.
X2	2N149-R33	Mixer	2N439			
X3	2N149-R33	Oscillator	2N439			
X4	2N149-R33	1st IF Amplifier	2N439			
X5	2N149-R33	2nd IF Amplifier	2N439			
X6	R-63	3rd IF Amplifier				
X7	R-62	Detector				
X8	R-64	AGC Amplifier				
X9	2N109	AF Amplifier	2N180	2N360		
X10	2N278	Output				
X11	2N278	Trigger Amplifier	2N439			
X12	2N109	Relay Control	2N180	2N360		

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	VOIT.	REPLACEMENT DATA					
			DELCO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.
C1	100	10	7269784	PRS12V100	BRI100-15	TC2501	TP-100-15	MTH-1210
C2	100	10	7269784	PRS12V100	BRI100-15	TC2501	TP-100-15	MTH-1210
C3	100	10	7269784	PRS12V100	BRI100-15	TC2501	TP-100-15	MTH-1210
C4	100	25	7269784	PRS12V100	BRI100-25	TC2501	TP-100-25	MTH-1210
C5	100	25	7269784	PRS12V100	BRI100-25	TC2501	TP-100-25	MTH-1210
C6	2000	15	7269789	PRS12V100	BRI20001	TC1501	TP-1000-15	MTH-1210

* Non Catalog Item

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 CAP.	VOIT.	REPLACEMENT DATA						NOTES
			DELCO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	
C7	7-54	100	7269656						
C8	1	100	7269776						
C9	1	100	7269776						
C10	1	100	7269776						
C11	39	100	7269776	468-000039	5W5Q39	GP-39	UC-5439	1FM-439	
C12	1	100	7269776	468-000011	5W5Q11	GP-11	UC-521	1FM-421	
C13	1	100	7269776	468-000022	5W5Q22	GP-22	UC-5422	1FM-422	
C14	22	100	7269776						
C15	0.02	100	7269776						
C16	0.02	100	7269776						
C17	200	100	7269776						
C18	1	100	7269776						
C19	120	100	7269776						
C20	1	100	7269776						
C21	1	100	7269776						
C22	10	100	7269776						
C23	0.02	100	7269776						
C24	1	100	7269776						
C25	1	100	7269776						
C26	1	100	7269776						
C27	1	100	7269776						
C28	5	100	7269776						
C29	1	100	7269776						
C30	1	100	7269776						
C31	1.0	50	7269776						
C32	1	100	7269776						
C33	1	100	7269776						
C34	5	50	7269776						
C35	5	50	7269776						
C36	47	50	7269776						
C37	10	100	7269776						
C38	1	100	7269776						
C39	1	100	7269776						

PARTS LIST AND DESCRIPTIONS (Continued) CAPACITORS (cont)

ITEM No.	RATING CAP.	VOIT.	REPLACEMENT DATA						NOTES
			DELCO PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	
C40	1	100	7269776						
C41	0.05	100	7269781						
C42	47	100	6692	P288N-47	CUB2P47				
C43	1.0	100	7269522	P288N-1.0	CUB2W1				
C44	1.0	50	7269779						
C45	1	100	7271042	P288N-1	CUB2P1				
C46	1.0	100	7269522	P288N-1.0	CUB2W1				
C47	1.0	100	7269522	P288N-1	CUB2P1				
C48	1	100	7269776						
C49	1	100	7269776						
C50	47	100	6692	P288N-47	CUB2P47				

CONTROLS

ITEM No.	RATING RESIST.	WATTS	REPLACEMENT DATA				INSTALLATION NOTES
			DELCO PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	
R1A	Switch	1/2	7269483				
R2	Switch	2	7269482				
R3	3000Ω	2	7269743				

RESISTORS

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

ITEM No.	RATING OHMS	WATT	NOTES	DELCO PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	NOTES
R4	3900Ω			132					
R5	4700Ω			133					
R6	1000Ω			125					
R7	220Ω			117					
R8	2700Ω			110					
R9	220Ω			117					
R10	1200Ω			126					
R11	8900Ω			135					
R12	1000Ω			125					
R13	560Ω			122					
R14	3900Ω			132					
R15	39K			121					
R16	12K			121					
R17	1000Ω			125					
R18	1000Ω			125					
R19	1500Ω	5%		1219488					
R20	1800Ω			128					
R21	15K			123					
R22	1000Ω			125					
R23	1000Ω			125					
R24	4700Ω	5%		7269772					
R25	690Ω	5%		1219493					
R26	1800Ω			128					
R27	1000Ω			125					
R28	2200Ω			129					
R29	100Ω			7269787					
R30	470Ω			121					
R31	100Ω			7269787					
R32	330Ω	5%		7269788					
R33	18Ω			1104					
R34	680Ω			123					
R35	1000Ω			125					

Note 1. Some versions may use 3000Ω 5% in this application (Part #7269773).
 Note 2. Not used in some versions.
 Note 3. Some versions may use 220Ω in this application (Part #117).
 Note 4. Some versions may use 100Ω in this application (Part #113).
 Note 5. Versions after serial #HD80 use two .561 resistors in parallel in this application (Part #7270333).
 Note 6. Versions after serial #HD80 use 39Ω in this application (Part #108).
 Note 7. Temperature compensating unit.
 Note 8. Part of sensitivity switch (M10).

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (INTERSTAGE)

ITEM No.	TURNS RATIO		REPLACEMENT DATA				NOTES
	PRI.	SEC.	DELCO PART No.	Hallidorsen PART No.	Merit PART No.	Stancor PART No.	
T1	7:	1	7269336				

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO		REPLACEMENT DATA				NOTES
	PRI.	SEC.	DELCO PART No.	Hallidorsen PART No.	Merit PART No.	Stancor PART No.	
T2	4:5:	1	7269339				
	35:	1					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	DELCO PART No.	Hallidorsen PART No.	Merit PART No.	Stancor PART No.	
T3	1380	6-80	7268193 ①				① Versions above serial #HD80 use Part #7270327

SPEAKER

ITEM No.	TYPE		REPLACEMENT DATA		NOTES
	SIZE	FIELD	DELCO PART No.	QUAM PART No.	
SP1	6" X 9"	PM	7269816	69A328.6	

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		DELCO PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	
L1	Antenna Coil	7255738	19-1004	BC-565	4810	6 Microhenries
L2	Ant. Trans.	122105				
L3	RF Coil	1221050				187 Microhenries 1.4 Microhenry 1.4 Microhenry 1.7 Microhenry
L4	Osc. Coil	1221004				
L5	1st IF Pri.	1221001				
L6	1st IF Sec.	1221003				
L7	2nd IF Trans.	1221005				
L8	3rd IF Trans.	1221007				
L9	4th IF Pri.	1221009				
L10	4th IF Sec.	1221011				
L11	"A" Supply Choke	7265642				
L12	Spkr. Lead Choke	1217846	19-1001	BC-562	4804	
L13	Spkr. Lead Choke	1217846	19-1001	BC-562	4804	
L14	"A" Lead Choke	7258554				

PARTS LIST AND DESCRIPTIONS (Continued)

CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		DELCO PART No.	CBS PART No.	SYLVANIA PART No.	
M1	1N295	7269746	IN60	IN34A	AGC Delay AM Detector AGC Rectifier Relay Control Clamper
M2	1N295	7269746	IN60	IN34A	
M3	1N295	7269746	IN60	IN34A	
M4	1N295	7269746	IN60	IN34A	

MISCELLANEOUS

ITEM No.	PART NAME	DELCO PART No.	NOTES
M5	Pilot Light	274020	#1892 (Not used in some versions)
M6	Tuner	1220308	
M7	Spark Plate	7268030	
M8	Switch	7268030	
M9	Switch	7268030	
M10	Switch	7268755	
M11	Switch	1220963	
M12	Switch	1220962	
M13	Relay	7263471	
M14	Relay	7268296	
M15	Solenoid	7268040	
M16	Solenoid	7268050	
M17	Power Solenoid		
M18	Treadle Solenoid		
M19	Sensitivity Station Selector		
M20	Antenna Override		
M21	4 Section		
M22	Gear Train Control		
M23	Power Treadle		

CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Dial Glass	7269448	ON-OFF-Volume, Tuning Tone, Speaker Fader Set of Five (includes front bearing plate)
Escutcheon	7269758	
Knob	1466055	
Knob	1466056	
Dial Pointer	1220999	
Pushbutton	1220974	

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors
Shielded Hook-up Wire	Use BELDEN No. 8524 (Stranded) Available in Ten Colors
Bonding Strap	Use BELDEN No. 8865
	Use BELDEN No. 8601