

TRADE NAME	Packard Model 484649 (For 1957 Packard Automobiles)		
MANUFACTURER	Delco Radio Div., G. M. Corp., Kokomo, Indiana		
TYPE SET	Battery Operated Custom Built AM Automobile Receiver		
TUBES (Eight)	Types 12BA6 RF Amp., 12BE6 Conv., 12BA6 IF Amp., 12BF6 Det. -AVC -AF Amp., 12AU7 Trigger, (2) 12V6GT Output, 0Z4 Rectifier		
POWER SUPPLY	12 Volt Storage Battery	RATING	3.4 Amp. @ 12.6 Volts DC
TUNING RANGE—BROADCAST	540KC-1600KC		

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting. Tone control to "Treble".

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
1 .1MFD	High side to pin 7 (grid) of 12BE6 (V2). Low side to chassis.	260KC (400v Mod)	High frequency end stop	Across C3	A1, A2, A3	Adjust for maximum output.
2 "	"	"	"	"	A4	Adjust for MINIMUM output.
Check setting of oscillator core (A8). Rear of core should be 1 25/32" from mounting end of coil form.						
3 68MFD	High side to Antenna receptacle. Low side to chassis.	1615KC	High frequency end stop	Across C3	A5, A6, A7	Adjust for maximum output.
4 "	"	600KC	Tune to 600KC signal	"	A9, A10	"
5 "	"	1615KC	High frequency end stop	"	A6, A7	"
6 "	"	1000KC	Tune to 1000KC signal	"		If necessary, adjust pointer (with pointer adjustment screw) to coincide with 1000KC on dial.
7	With radio installed in car and antenna fully extended, tune in a weak station between 600KC and 1000KC, and adjust A7 for maximum volume.					

PUSHBUTTON ADJUSTMENT

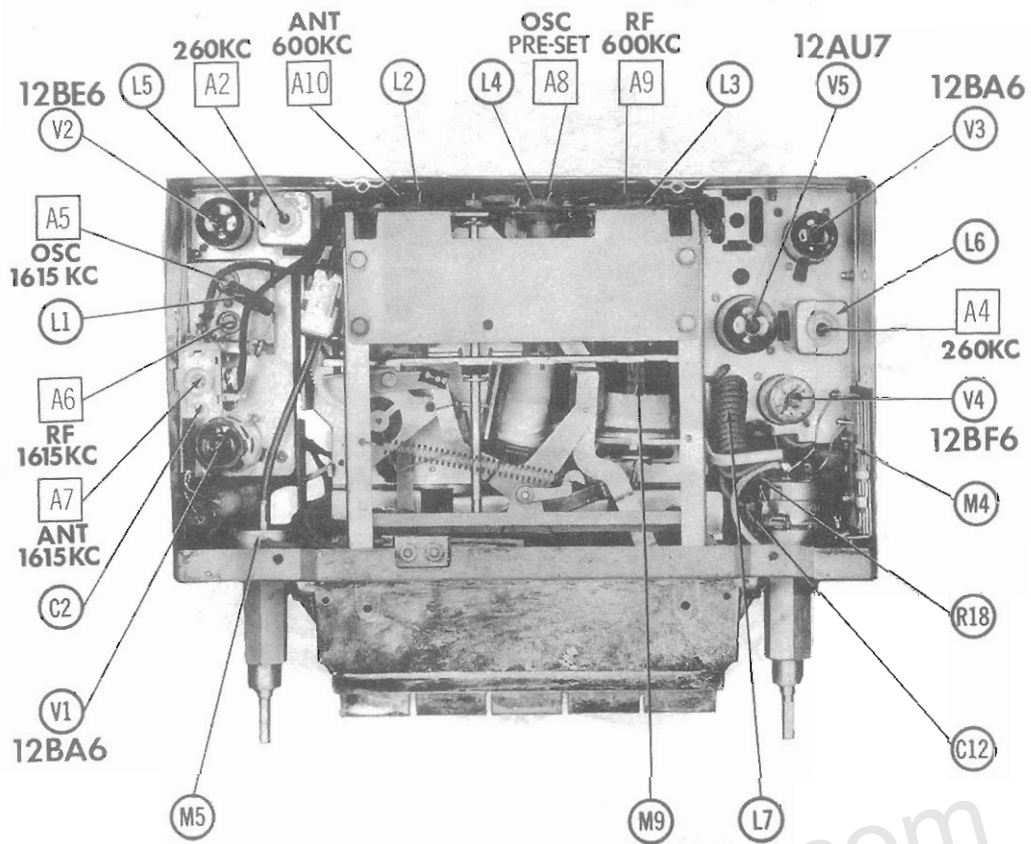
1. Open hinged door below the dial so that selector tabs are exposed.
2. Tune manually to desired station near left end of dial.
3. Move selector tab on extreme left until tab coincides with pointer tip.
4. Repeat procedure for remaining tabs choosing station from left to right on dial.

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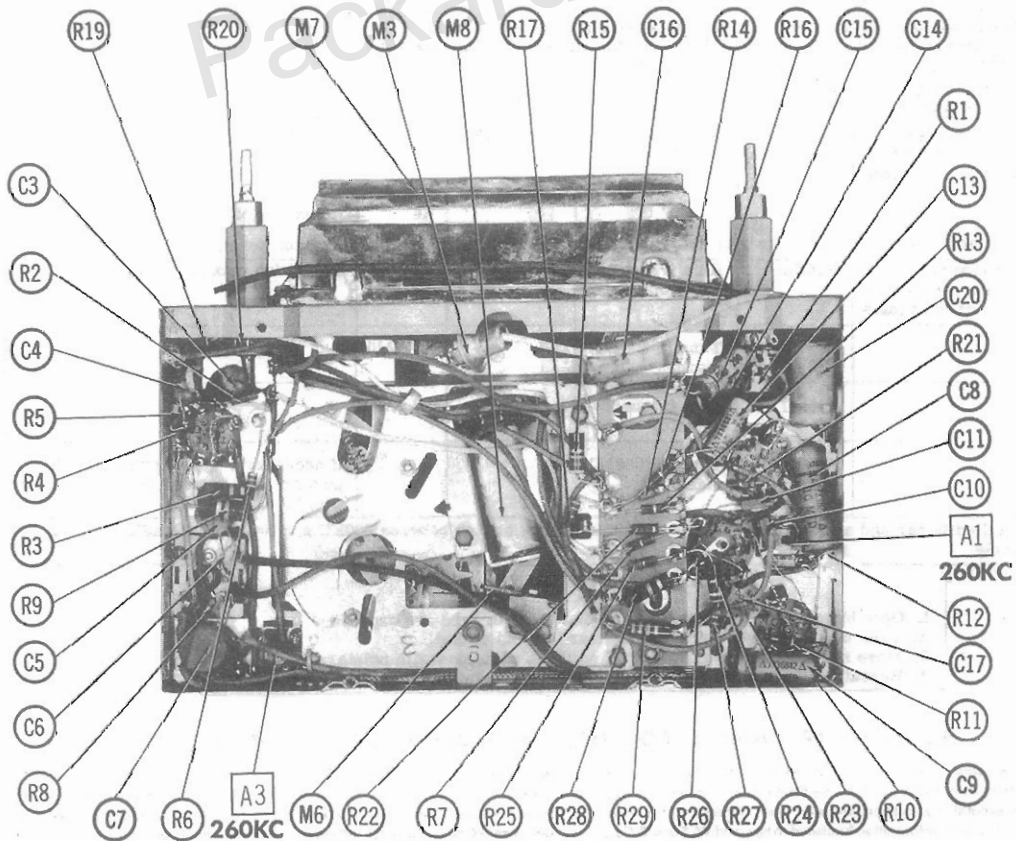
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PACKARD
MODEL 484649

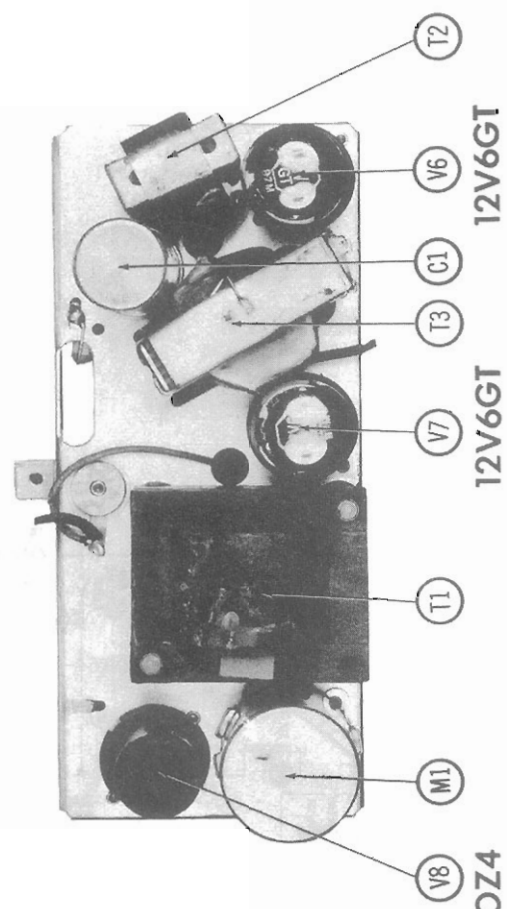


CHASSIS-TOP VIEW

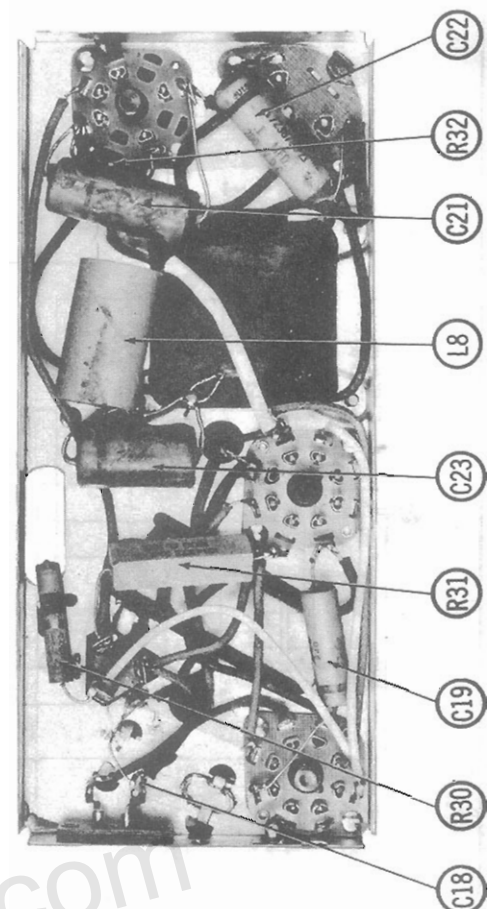


CHASSIS-BOTTOM VIEW

POWER CHASSIS—TOP VIEW



CHASSIS—BOTTOM VIEW



PARTS LIST AND DESCRIPTIONS TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	RF Amplifier Converter	12BA6		V5	Trigger Output	12AU7	
V2	IF Amplifier	12BE6		V6	Output Rectifier	12V6GT	
V3	IF Amplifier	12BA6		V7	Output Rectifier	12V6GT	
V4	DeL. -AVC-AF Amp.	12BF6		V8	Rectifier	OZ4	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA			
	CAP.	VOLT.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLOY PART No.	SPRAGUE PART No.
C1A	20	400	AFH3-120	C0980	FP345.8	T-550
C1B	40	400				
C1C	20	25				

FIXED CAPACITORS

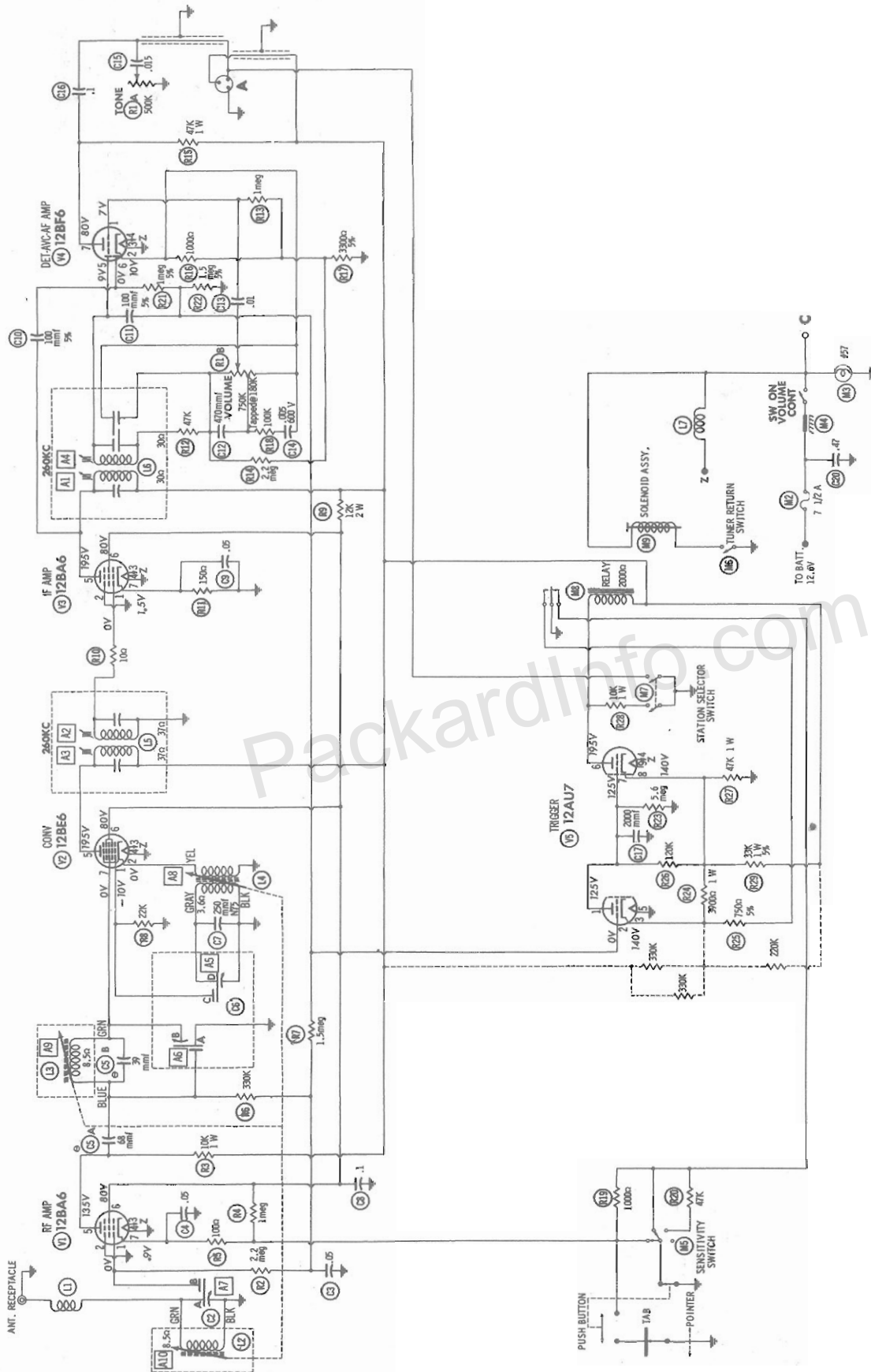
Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING		REPLACEMENT DATA						NOTES	
	CAP.	VOLT.	DELCO PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLOY PART No.		SPRAGUE PART No.
C2A	.05	200	7206240	BPD-05	DF-503	CUB485	CUB485	ED-68	GEM-415	2TM-55
C3	.05	200	6612	BPD-05	DF-503	CUB485	CUB485	ED-39	GEM-415	2TM-55
C4	.05	200	6612	BPD-000088	DD-680	L10Q98	L10Q98		UC-5468	5GA-Q88
C5A	.68	39		BPD-000038	DD-390	L10Q39	L10Q39		UC-5439	5GA-Q39
C6A	.01	400	7242454							
C7	.250	400	7266598	P488N-1	DF-104	CUB4PI	CUB4PI		GEM-401	4TM-P1
C8	.05	200	6612	BPD-05	DF-503	CUB485	CUB485		GEM-415	2TM-55
C9	.05	200	6612	1489-0001	TCCZ-100	22R571	22R571		ZT-531	MS-31
C10	.100	500	1210498	1489-0001	TCCZ-100	22R571	22R571		ZT-531	MS-31
C11	.100	500	1210498	BPD-00047	DD-471	5W5747	5W5747		UC-5247	5GA-T47
C12	.470	400	6653	BPD-01	DD-103	CUB4S1	CUB4S1		GEM-411	4TM-S1
C13	.01	400	6653	BPD-005	DD-502	CUB6DS	CUB6DS		GEM-425	6TM-D5
C14	.005	400	7257719	BPD-015	DD-104	CUB6SU	CUB6SU		GEM-415	4TM-S15
C15	.015	200	6613	P488N-1	DD-202	BYA10D2	BYA10D2		GEM-401	4TM-P1
C16	.1	400	6352	BPD-002	DD-101	L10T1	L10T1		UC-5522	5HK-T1
C17	2000	1000	6371	BPD-0001	DD-302	CUB2P47	CUB2P47		UC-5510	5GA-T1
C18	.003	1000	6563	P1068N-003	DD-101	CUB2P47	CUB2P47		GEM-1023	10TM-D3
C20	.47	100	6662	P288N-47	DD-6-702	CUB1GD7	CUB1GD7		GEM-2047	2TM-P47
C21	.007	1800	6667	P1688N-007	DF-104	CUB2P1	CUB2P1		GEM-1627	MB-DT
C22	.1	200	6690	P288N-1	DF-104	CUB2P1	CUB2P1		GEM-201	2TM-P1
C23	.47	100	6662	P288N-47	DF-104	CUB2P47	CUB2P47		GEM-2047	2TM-P47

① In some versions C5 is two single units, C5A Part #6369 & C5B Part #6366.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	RESIST. ANCE	WATTS	DELCO PART No.	CENTRALAB PART No.	IRC PART No.	
R1A	500K		7266091		QJ-856A	UE14785
R1B	750K					
R1C	Switch					



Main Chassis

PARTS LIST AND DESCRIPTIONS (Continued) RESISTORS

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

ITEM No.	RATING		REPLACEMENT DATA		NOTES
	OHMS	WATT	DELCO PART No.	IRC PART No.	
R2	2.2Meg		1239	BTS-2, 2Meg	
R3	10K	1	1174	BTA-10K	
R4	1Meg		1235	BTS-1Meg	
R5	100Ω		1113	BTS-100	
R6	330K		1229	BTS-330K	
R7	1.5Meg		1237	BTS-1.5Meg	
R8	22K		1216	BTS-22K	
R9	12K	2	1276	BTS-12K	
R10	10Ω		1101	BTS-10	
R11	150Ω		1115	BTS-150	
R12	47K		1219	BTS-47K	
R13	1Meg		1235	BTS-1Meg	
R14	2.2Meg		1239	BTS-2.2Meg	
R15	47K		1239	BTS-47K	
R16	1000Ω	1	1128	BTA-1000	
R17	3300Ω	5%	1220173	BTS-3300 5%	

Note 1. Migr. states to replace R31 with 2700Ω 2W (Part #1204) & 5000Ω 1W (Part #1171) connected in parallel.

TRANSFORMER (VIBRATOR)

ITEM No.	RATING		REPLACEMENT DATA		Triad PART No.
	DELCO PART No.	SEC. 3	Holliderson PART No.	Merit PART No.	
T1	12.6VCT ① 1.3A ② .082A	550VCT	6067	V3902 P-2861	P-6489 22R82 V-31

TRANSFORMER (AUDIO INPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA		NOTES
	DELCO PART No.	SEC.	Holliderson PART No.	Merit PART No.	
T2	60Ω	3-40	A-3010	A-3010	

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA		NOTES
	DELCO PART No.	SEC.	Holliderson PART No.	Merit PART No.	
T3	7100Ω CT	3-40	6063	ZL002 ① A-2603 ② A-3823 ③ 23588 ④ S-532 ⑤	① Use original channel mounting frame.

SPEAKER

ITEM No.	TYPE		REPLACEMENT DATA		NOTES
	DELCO PART No.	V. C. IMP.	DELCO PART No.	QUAM PART No.	
SP1	6" X 9"	8-4Ω	7986144	99A3	

PARTS LIST & DESCRIPTION (continued) COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			NOTES
		DELCO PART No.	MEISSNER PART No.	MERIT PART No.	
L1	AnL Coupling Coil	7255738	19-1004	4610	6.5 Microhenries
L2	Antenna Coil	7257979			
L3	RF Coil	7257979			
L4	Osc. Coil	7263287			
L6	Input IF	1219508		12-HI	
L6	Output IF	1220204			
L7	Fl. Choke	7241708			
L8	Vib. Hash Choke	1221077			

VIBRATOR

ITEM No.	TYPE	INPUT VOLTS	FREQUENCY	REPLACEMENT DATA		NOTES
				DELCO PART No.	RADIART PART No.	
M1	Interrupter	12.6V	115 Hz	8555	G1602/G383	6330

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA		BUSS PART No.
			DELCO PART No.	UTTEFUSE PART No.	
M2	SFE	7 1/2A	455640	30307.5 (TAG 7 1/2A)	155009

MISCELLANEOUS

ITEM No.	PART NAME	DELCO PART No.	REPLACEMENT DATA		NOTES
			DELCO PART No.	HOLDER	
M3	Dial Light				#57 Sensitivity Tuner Return Station Selector
M4	Spark Plate	1220308			
M5	Switch	7260886			
M6	Switch	7263340			
M7	Switch	7266300			
M8	Relay	1220258			
M9	Solenoid Ass'y.	1220685			

CABINETS & CABINET PARTS

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

ITEM No.	NAME	REPLACEMENT DATA		DESCRIPTION
		DELCO PART No.	QUAM PART No.	
	Knob	7270072		Control Tone
	Lever	7266329		
	Dial Glass	7263586		