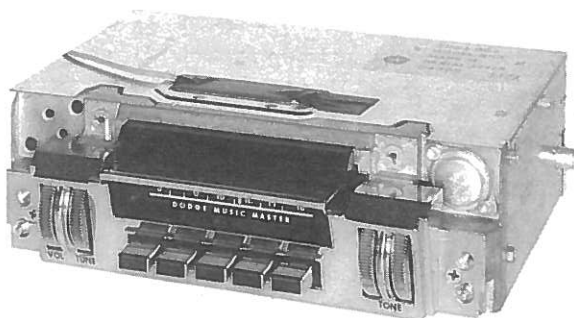




PHOTOFACT[®] with

CIRCUITRACE[®]



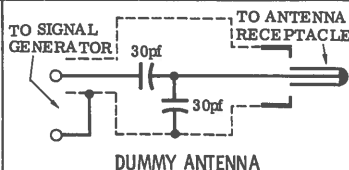
TRADE NAME : Dodge Model 253 (2884067) 1968 Monaco, Polara
 SUPPLIER : For Current Address, See Annual Index
 TYPE SET : 5-Transistor AM Receiver
 POWER SUPPLY : 12 Volt Storage Battery
 RATING : .65 Amp @ 12.6 Volts DC

DODGE MODEL 253

ALIGNMENT INSTRUCTIONS


Check for specified source voltage.
 Use only enough generator output to provide a usable indication.
 Suggested Alignment Tools:

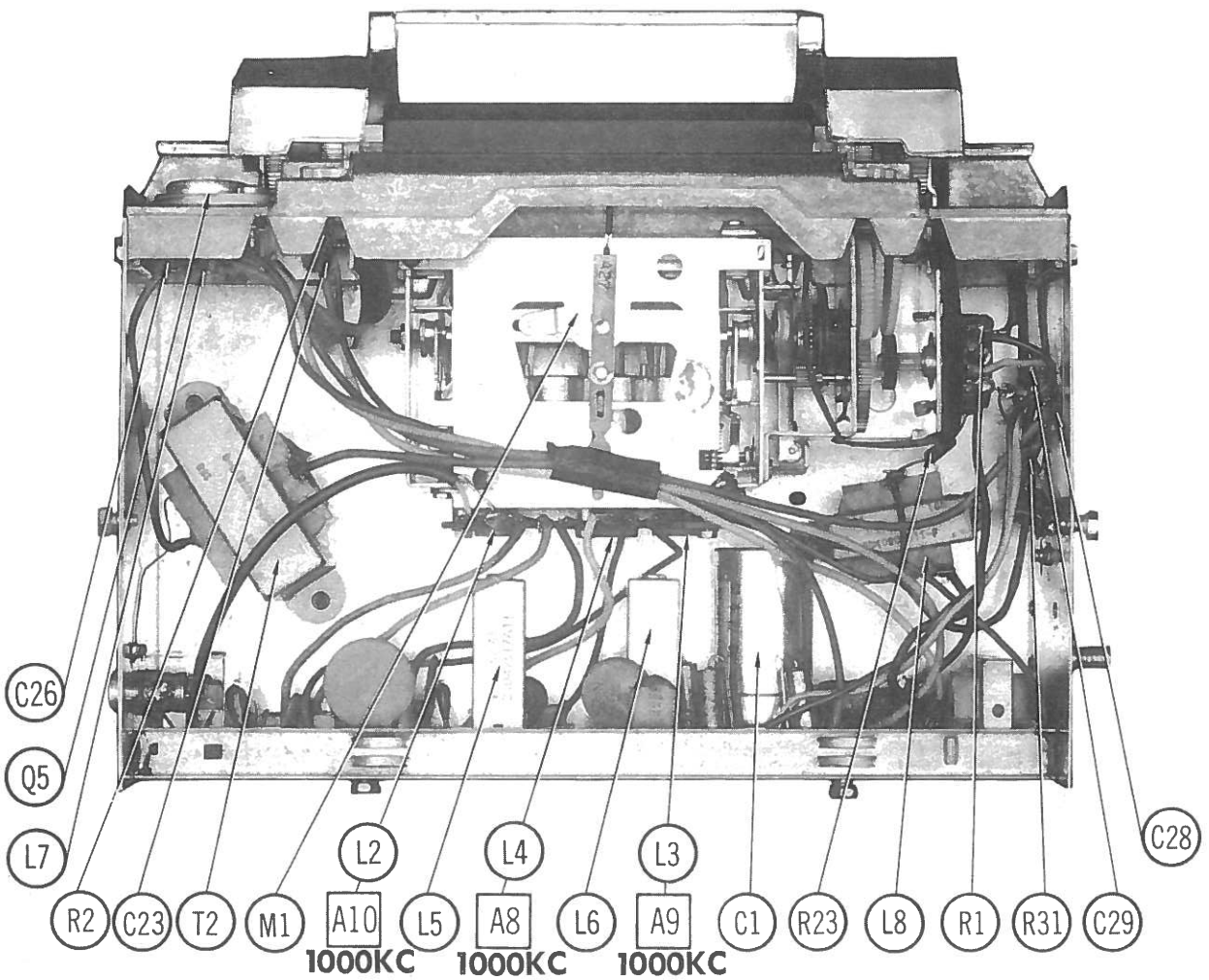
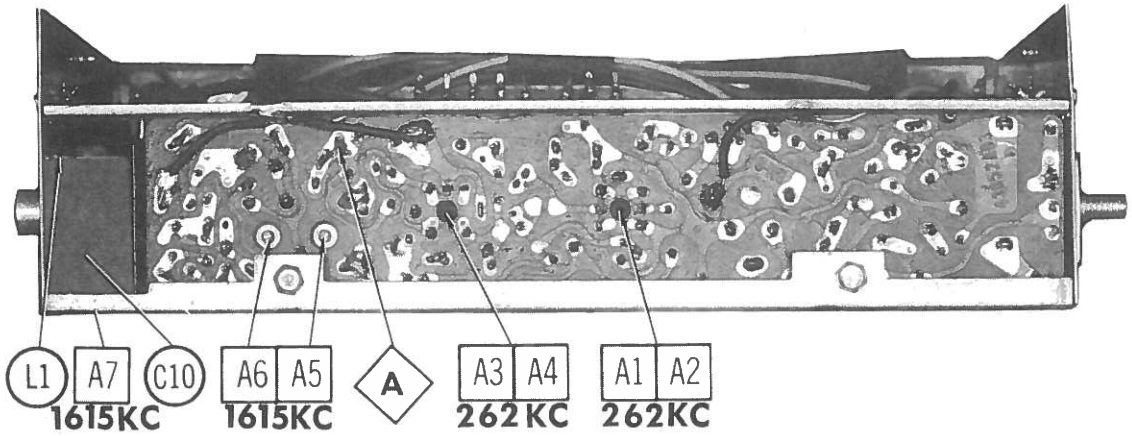
A1 thru A4. GENERAL CEMENT: 9296,9297,9300
 WALSCO. 2510,2546,2547
 A5,A6,A7. GENERAL CEMENT. 9290,8868,9087
 WALSCO: 2525,2528,2587

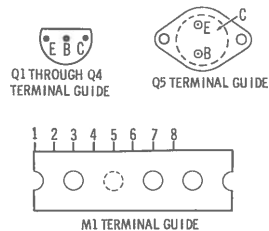
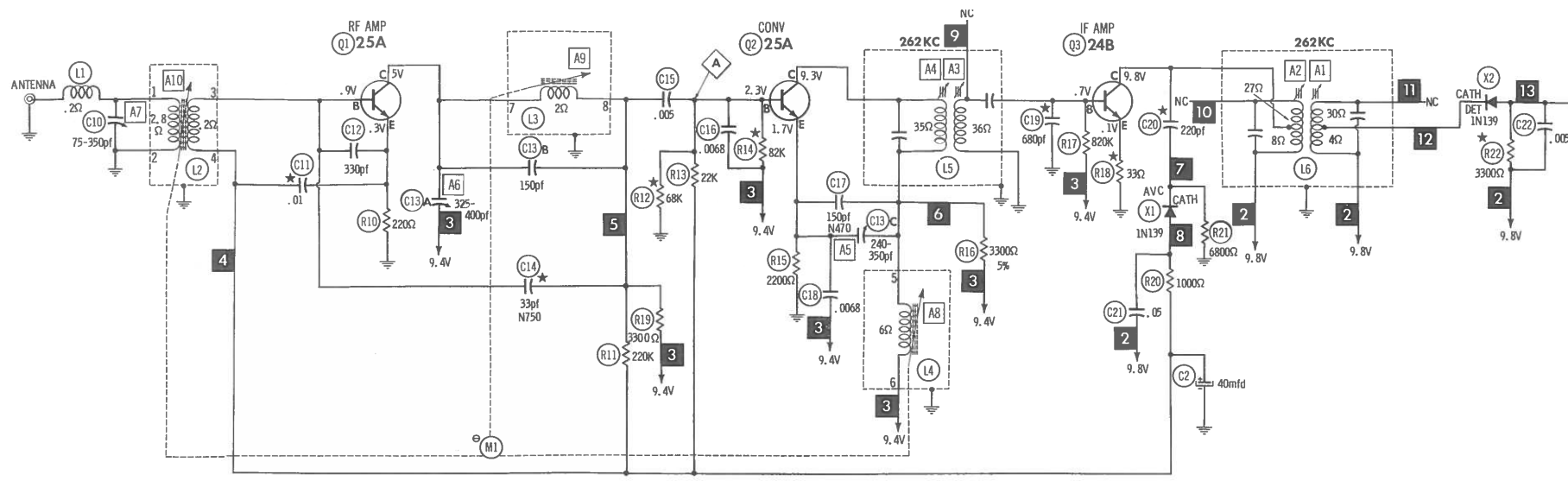


PUSH-BUTTON ADJUSTMENT

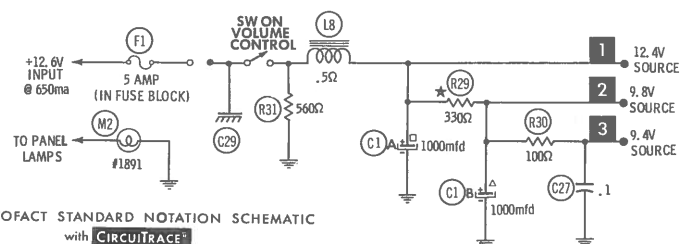
1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1. High side thru .1mfd to point  , low side to ground.	262KC (400v Mod.)	High freq. end stop.	Output meter across voice coil.	A1, A2, A3, A4	Adjust for maximum.
2. Thru dummy antenna to antenna receptacle.	1615KC	"	"	A5, A6, A7	"
Step 3 is not necessary unless tuner has been tampered with or associated components have been replaced. If necessary, back tuning cores (A8, A9, A10) out of coils but not out of forms. Repeat Step 2.					
3. Thru dummy antenna to antenna receptacle.	1000KC	Tune to signal.	Output meter across voice coil.	A8, A9, A10	Adjust for maximum. Repeat Steps 2 and 3 until no further improvement is noted.
With radio installed in car and antenna extended to desired height, tune in a weak station near 1400KC and adjust A7 for maximum output. Antenna adjustment (A7) is located bottom right rear corner.					



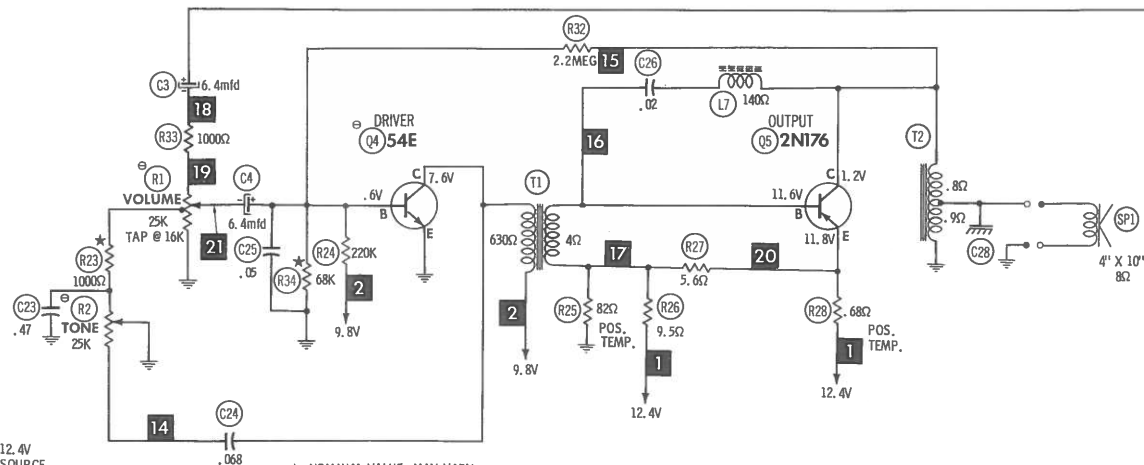


Resistors are 1/2 watt or less and rated 10% or 20% unless otherwise indicated.



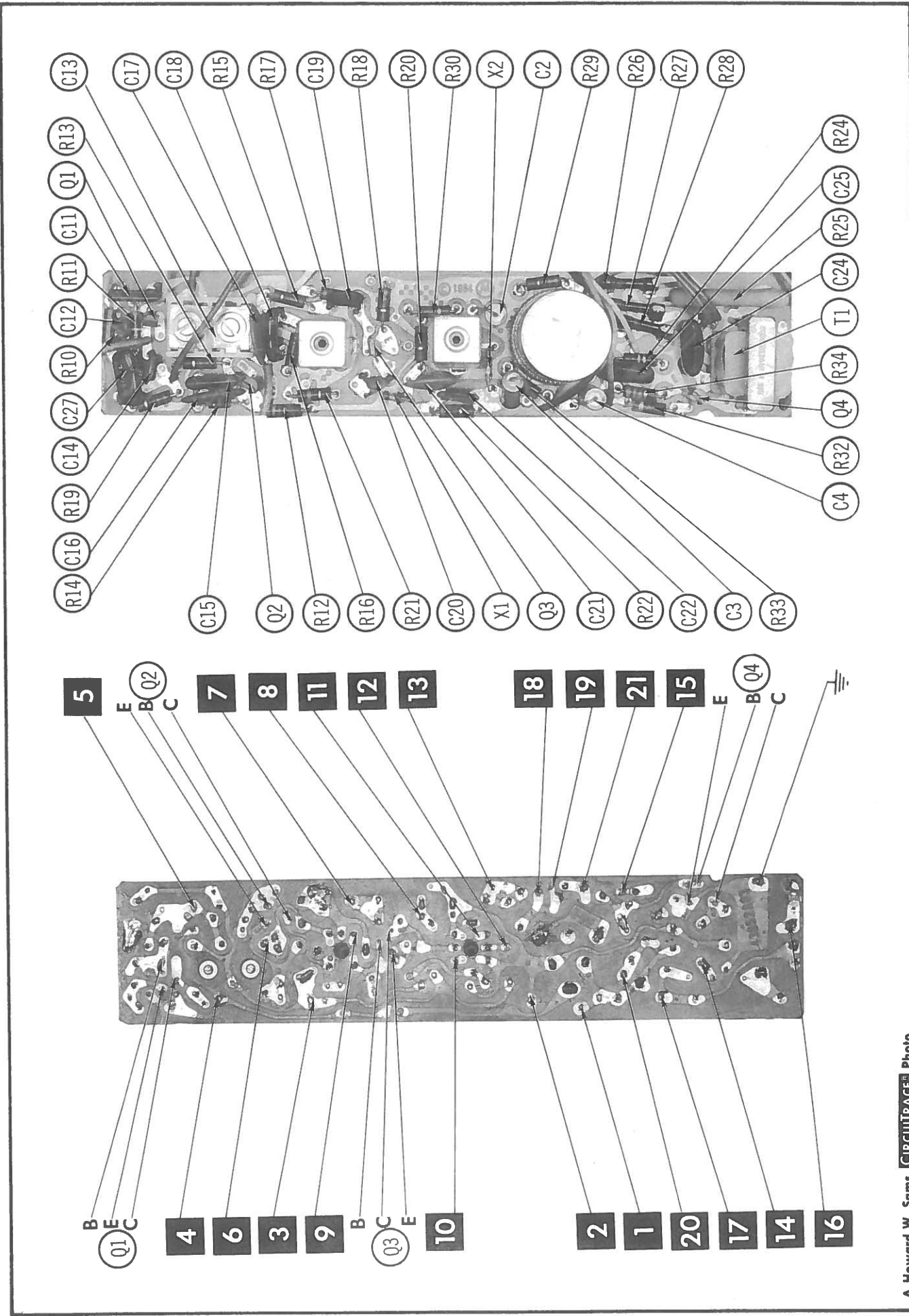
A PHOTOFAC STANDARD NOTATION SCHEMATIC
with CIRCUITACE™

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- 0. See parts list
- 1. Voltage measurements taken with vacuum tube voltmeter.
- 2. All controls set for normal operation, no signal applied.
- 3. Measured values are from socket pin or terminal to common ground.
- 4. All terminals viewed from bottom unless otherwise designated.
- 5. Numbers assigned to terminals may not be found on the unit.
- 6. Supply voltage maintained at rated value for voltage readings.
- 7. Resistance measurements not given because of the wide variation in internal resistance of transistor.

DODGE MODEL 253



DODGE MODEL 253

A Howard W. Sams CIRCUITRACE[®] Photo

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Shielded Hook-up Wire	8524 (Stranded) Available in 12 Colors
Bonding Strap	Use BELDEN No. 8885
	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	SYLVANIA PART No.
Q1	25A	RF Amp	48-134804	DS-71	GE-11	TR-21	SK-3018	ECG 107
Q2	25A	Converter	48-134804	DS-72	GE-11	TR-21	SK-3018	ECG 107
Q3	24B	IF Amp	48-134807	DS-72	GE-11	TR-21	SK-3018	ECG 107
Q4	54E	Driver	48-134846	DS-66	GE-10	TR-21	SK-3020	ECG 123
Q5	2N176	Output *	48-134749	DS-520	GE-3	TR-01	SK-3009	ECG 104

* When replacing, apply silicone grease to both sides of insulator. Tighten mounting screws securely.

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS		NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X1	48-134816 (1N461)	1N82A	1N82A	ECG 112			
X2	48-134587 (1N139)	1N295	1N295	ECG 109			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MOTOROLA PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.
C1A	1000 16V	23C40516A08					
B	1000 16V						
C2	40 16V	23C41928A20	CRE615A	EA30-50	NLW40-25	MT1-17	MTA40E30
C3	6.4 40V	23C41928A07	CRE755A	EA50-10	NLW6-50	MT1-5	TT50X6
C4	6.4 40V	23C41928A07	CRE755A	EA50-10	NLW6-50	MT1-5	TT50X6

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.
C10	110-340	#20B40746A13				465		
C11	.01 100V	†	DBE6S1	CPR-10000J	DMF2S1	4DP-1-103	PVC211	2TM-S10
C12	330		GPD X5F331K	DD-331	JBZ601YP331K	CCD-331	GP335	5GA-T33
C13A	325-400	#20C40481A09						
B	150							
C	240-350							
C14	33 N750	†	N750-DI 33	DTN-33	CZ601UJ330K	CCTN-330	CN7433	10TCU-Q33
C15	.005 100V	†	DBE6D5	CPR-5000J	DPMS6D5	6DP-1-502	PVC625	6PS-D50
C16	.0068		GPD XR5682K	DD-682	BYX601ZU682P	CCD-682	GP268	10TS-D68
C17	150 N470					*	*	10TCT-T15
C18	.0068 100V		DBE6D68	CPR-6800J	DMF6D68	6DP-1-682	PVC6268	6PS-D68
C19	680	(.001) †	GPD X5F681K	DD-681	BYZ601ZU681P	CCD-681	GP368	5GA-T18
C20	220	†	GPD X5F221K	DD-221	JBZ601YP221K	CCD-221	GP322	5GA-T22
C21	.05		GPD Z5V503P	DD-503			GP150	5GA-S50
C22	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C23	.47 3V			UK-474	HCS3R0XR474P		MAG3047	HY-130
C24	.068 100V		DBE4S68		DMF4S68	4DP-3-683	PVC6168	4PS-S68
C25	.05 100V		DBE6S5	DD-503	DPMS6S5	6DP-3-503	PVC615	6PS-S50
C26	.02 100V		DBE6S22	DD-203	DMF4S22	4DP-2-223	PVC6122	4PS-S22
C27	.1 100V		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C28		#64K561877						
C29		#64K561877						

Motorola Part Number.

† Nominal Value.

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

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA			
			MOTOROLA PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.
R1	Volume/Switch	25K Tap @ 19K	18C43746A01 ①			B20-121X, TM8, 76-1 or (BU11, CF49T, SS4, GC)
R2	Tone	25K	18C40908B01			RU34T24, SL37, SD750, US41

① Part Number 18-41797B01 includes Volume Control/Switch and Gear Assembly.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		MOTOROLA PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	RF Choke (1.5uh)	24C40788A04	19-1001	4604	T856
L2	Antenna	①			
L3	RF	①			
L4	Oscillator	①			
L5	Input IF	24D42517A11			
		24D42517A09 ②			
L6	Output IF	24D42517A12		8010	
		24D42517A10 ②			
L7	10KC Trap (14, 4mh)	24K565351		70F152A1	T847

① Part of M1 or (Coils and Mounting Plate Assembly Part Number 1-40100B63).
② Alternate Part Number.

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MOTOROLA PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L8	650ma	.5Ω	9mh	25D40907B11	C-4095	TC-2	TR-152	TY17XT	

TRANSFORMER (DRIVER)

ITEM No.	TURNS RATIO			REPLACEMENT DATA					NOTES
				MOTOROLA PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC. 1	SEC. 2						
T1	16	1		25D42917A10					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			MOTOROLA PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
T2	18Ω Tap	@ 8Ω	25D41307B15					

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA			NOTES
		MOTOROLA PART No.	JENSEN PART No.	QUAM PART No.	
SP1	4" X 10" PM 8Ω	50D42859A02	P4X10T9	410A2Z8	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	AGC 5 Amp		In Fuse Block	AGC 5		311005		

MISCELLANEOUS

ITEM No.	PART NAME	MOTOROLA PART No.	NOTES
M1	Tuner	1V43500A33	AT-562
	Tuning Coils	1V40100B63	
M2	Dial Lamp	65-4030HA01	CHICAGO MINIATURE Replacement CM-1893

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
Escutcheon	13-41594B01	Dial Pointer	52-40244B16
Dial Glass	34-43672A01	Push Button	38-41815B01