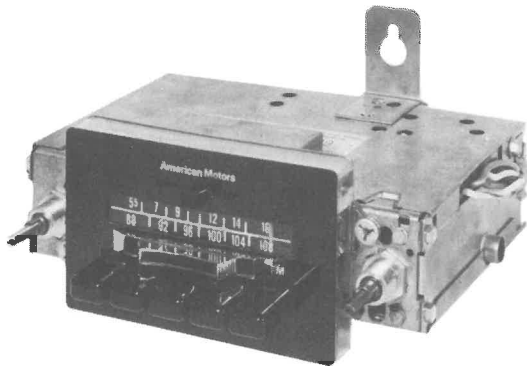


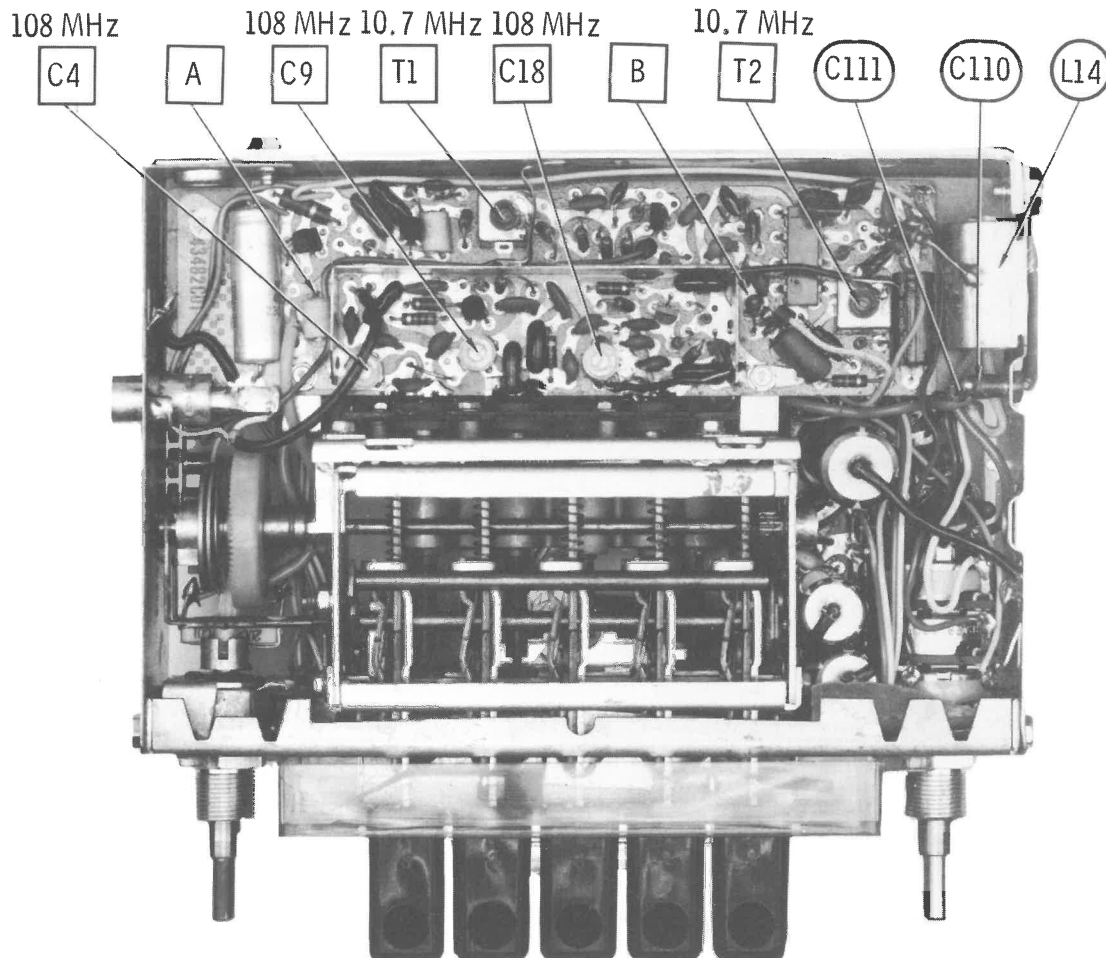
PHOTOFACT[®] with CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE: Manufacturer Part Numbers Shown Are MOTOROLA



MODELS 5HT3510 (3672718)
(75 Gremlin, Hornet)
5KJ3511 (5454307)
(75 Jeep Cherokee, Truck, Wagon)
5RA3509 (3665162)
(75 Matador)
5RA3517 (3690422)
(75 Pacer)



AMERICAN MOTORS 1975 SERIES

CHASSIS-BOTTOM

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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ALIGNMENT INSTRUCTIONS

Check for specified source voltage.

Use only enough generator output to provide a usable indication.

Suggested Alignment Tools:

GC ELECTRONICS

ALL 8290, 8868, 9087

PUSH-BUTTON ADJUSTMENT

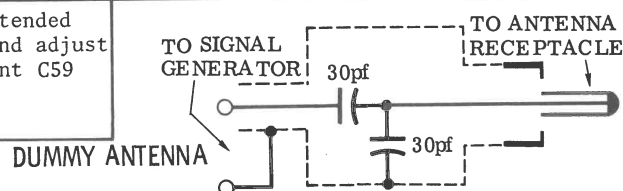
1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to point A, low side to ground.	262kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T6, T5, T4, T3	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C70, C63, C59	"

Tuner alignment is not necessary unless associated components have been disturbed. If necessary, back tuning cores L10, L11, L12 out of coils but not out of forms. Repeat step 2.

Thru dummy antenna to antenna input.	1000kHz	Tune to signal	Output meter across voice coil.	L12, L11, L10	Adjust for maximum. Repeat alignment until no further improvement is noted.
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With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust C59 for maximum output. Antenna adjustment C59 is located behind dummy and tuning knobs.



FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to point A		low side to ground.		
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to point B, common to ground.	T2, T1	Adjust for maximum.

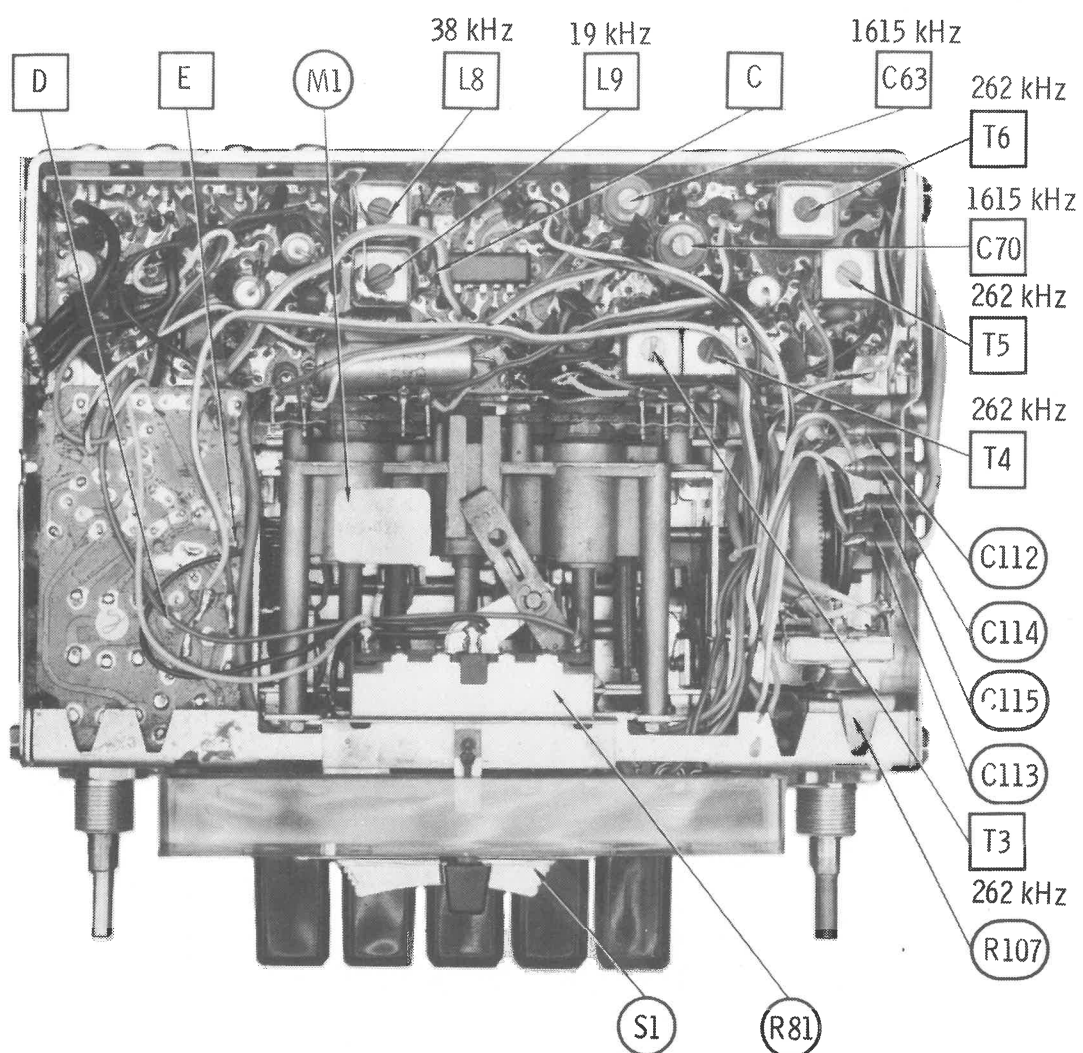
FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.

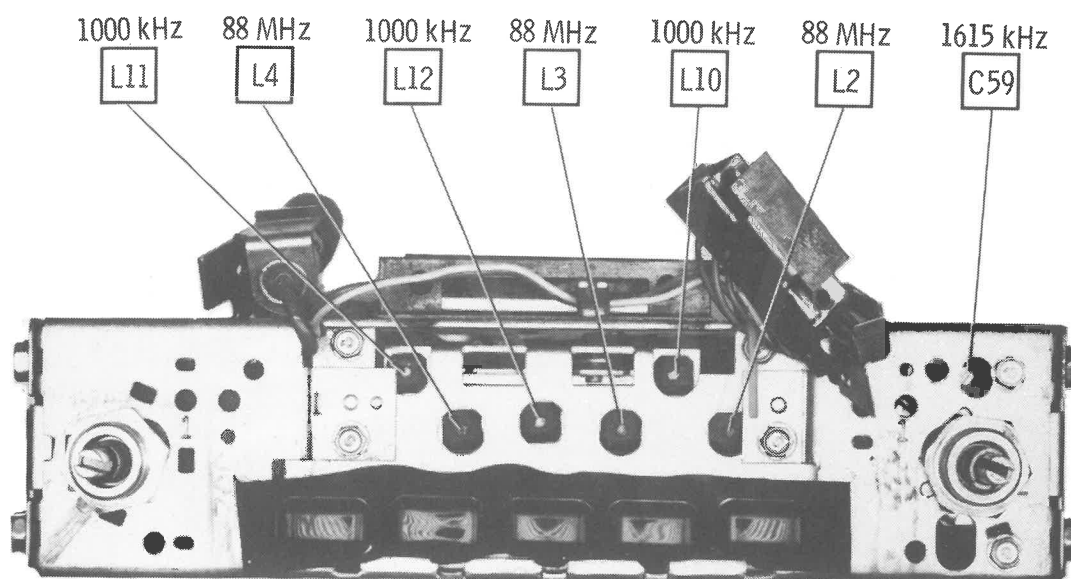
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
88MHz Unmodulated	Low freq end	DC probe of VTVM to point B, common to ground.	L4, L3, L2	Adjust for maximum.
108MHz Unmodulated	Tune to signal	"	C18, C9, C4	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

FM STEREO MULTIPLEX ALIGNMENT USING FM STEREO SIGNAL GENERATOR (± .0001% ACCURACY)

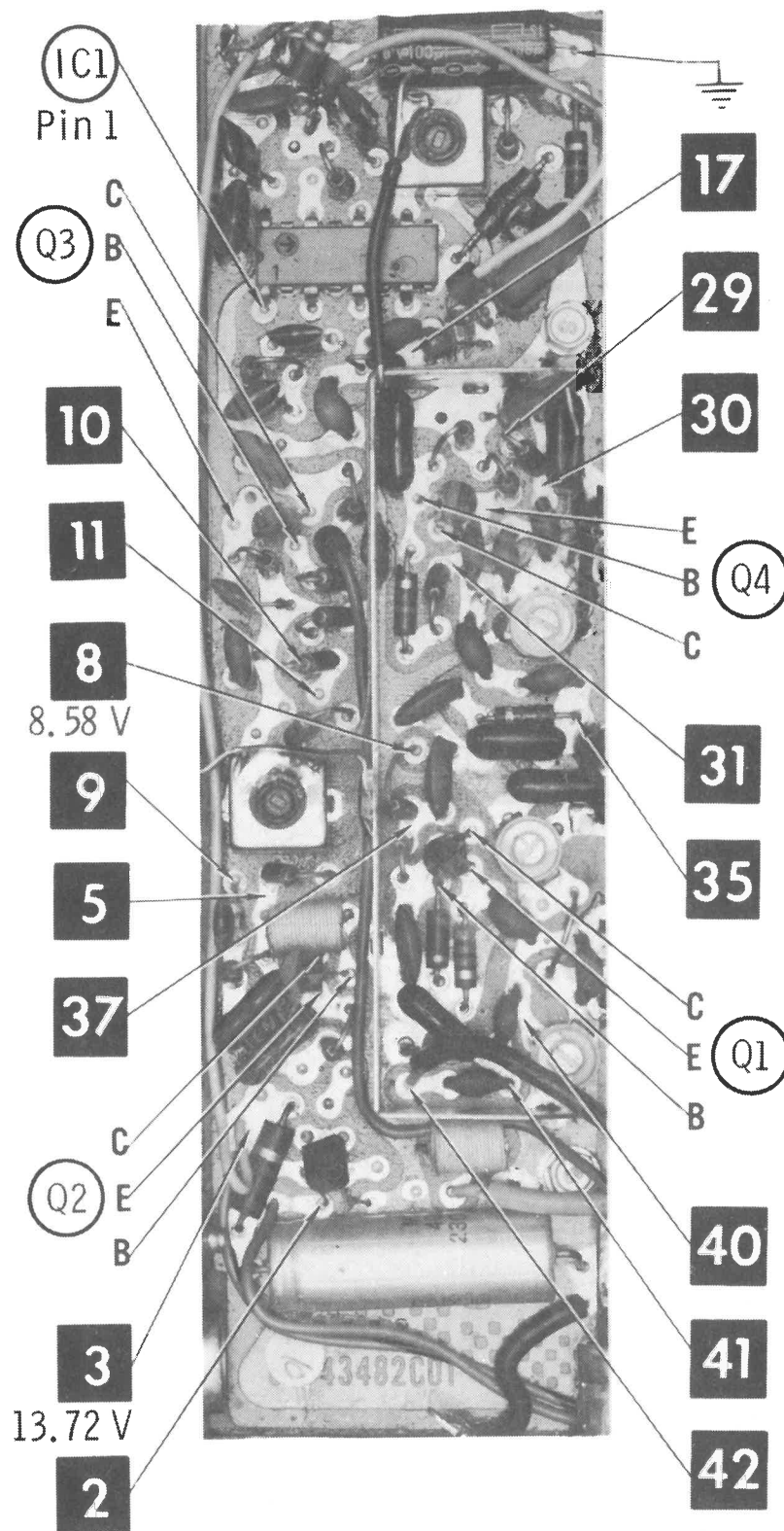
High side of generator thru 47K to point A,		low side to ground.		
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS	
19kHz	Vert input of scope thru 47K to point C, low side to ground.	L9, L8	Adjust for maximum 38kHz response.	
Modulated Left Channel	Vert input of scope to point D, low side to ground.	L8, L9	Adjust for MINIMUM. This step should require only slight adjustment.	
Modulated Right Channel	Vert input of scope to point E, low side to ground.		Check for MINIMUM. If necessary, make compromise adjustment of L8, L9.	



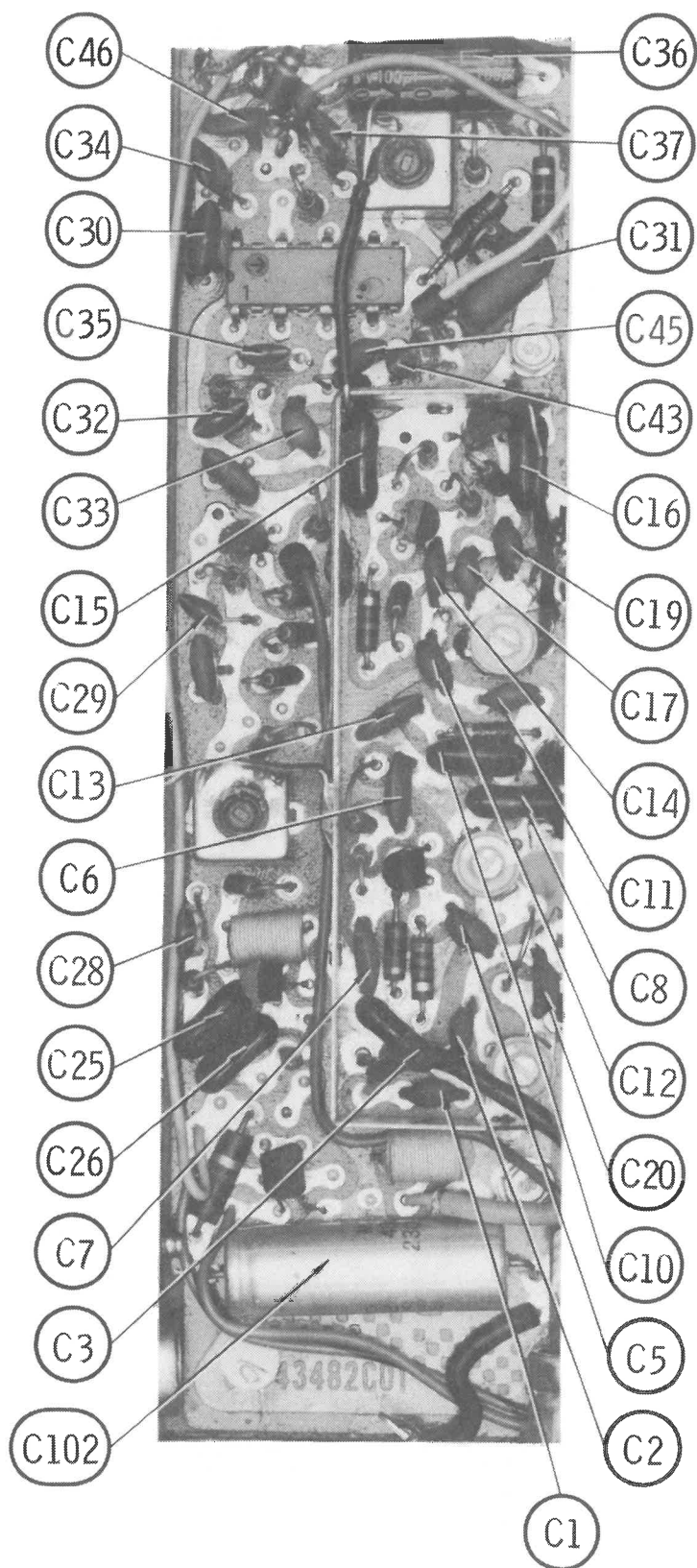
CHASSIS-TOP



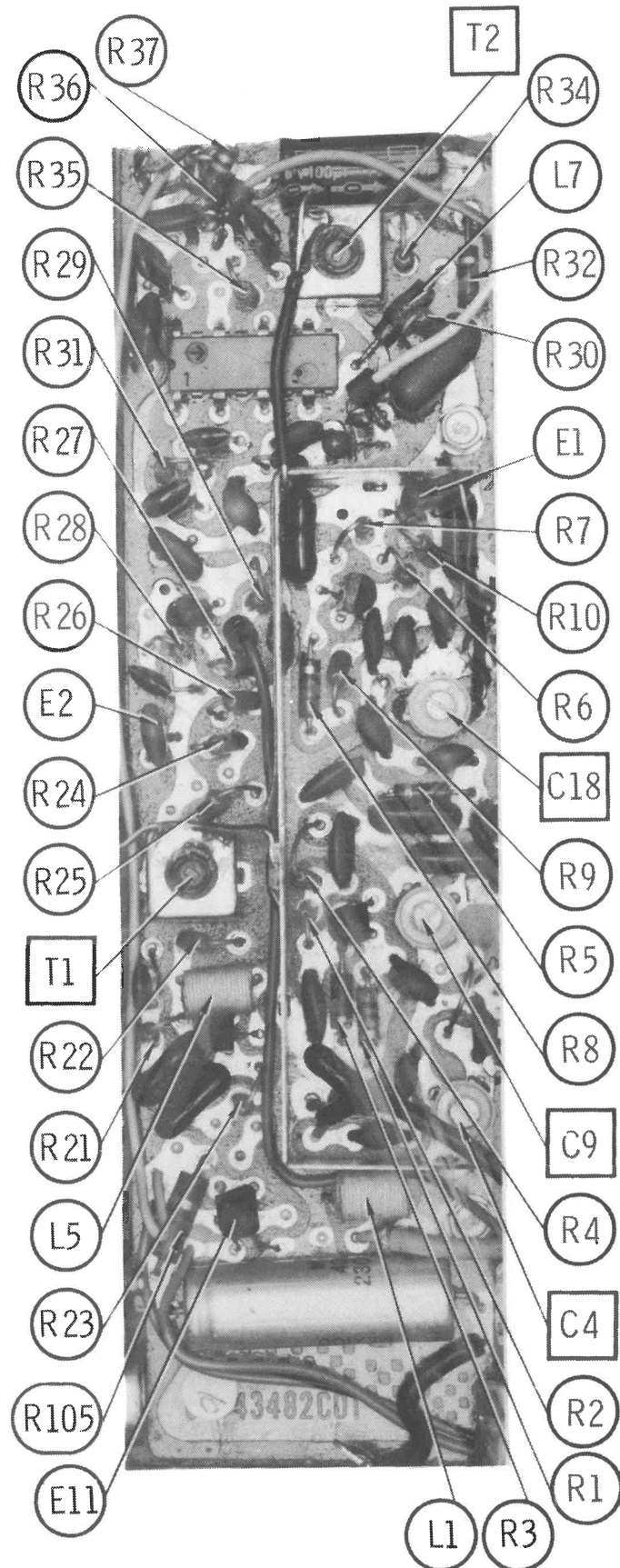
CHASSIS-FRONT



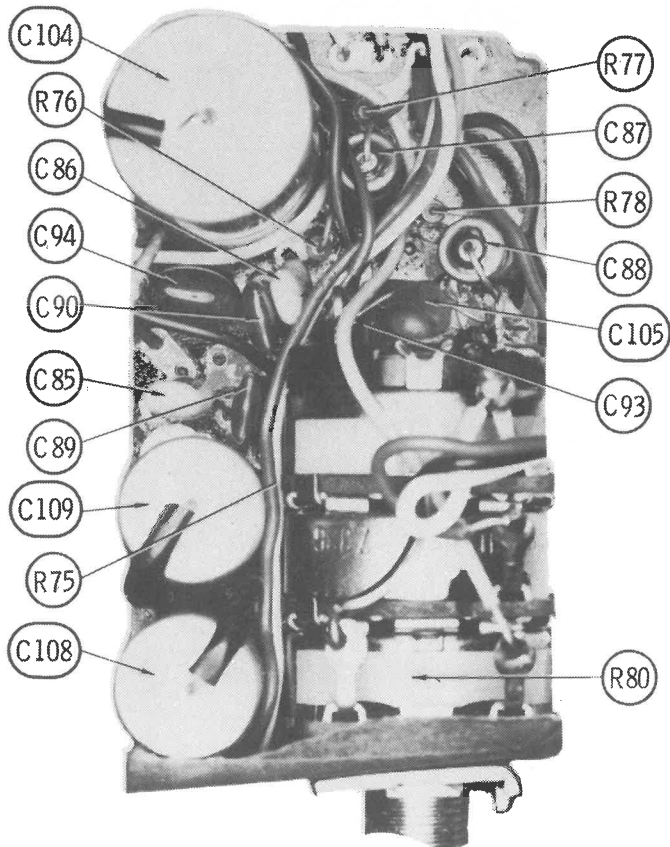
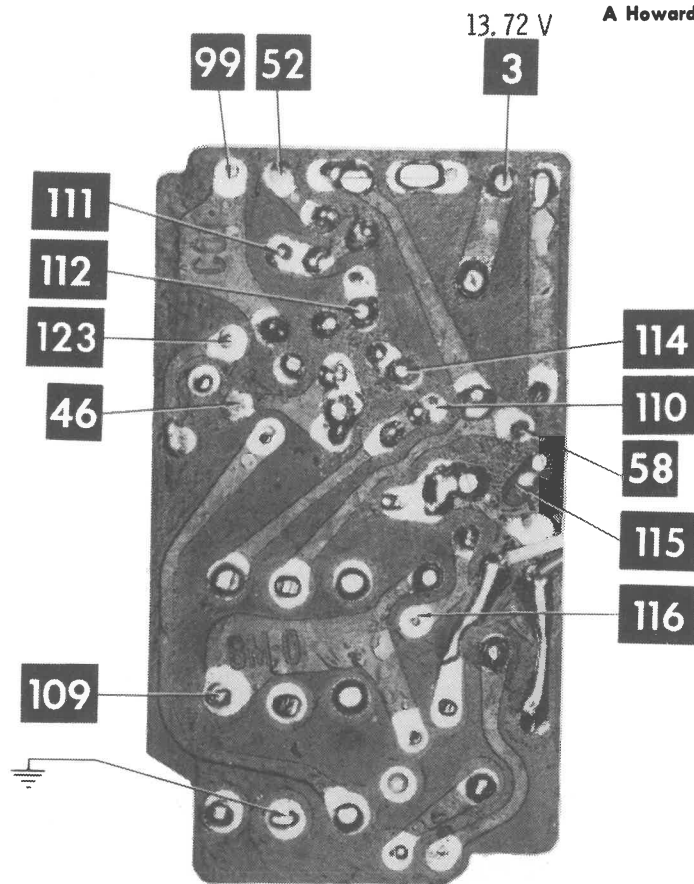
FM BOARD



FM BOARD

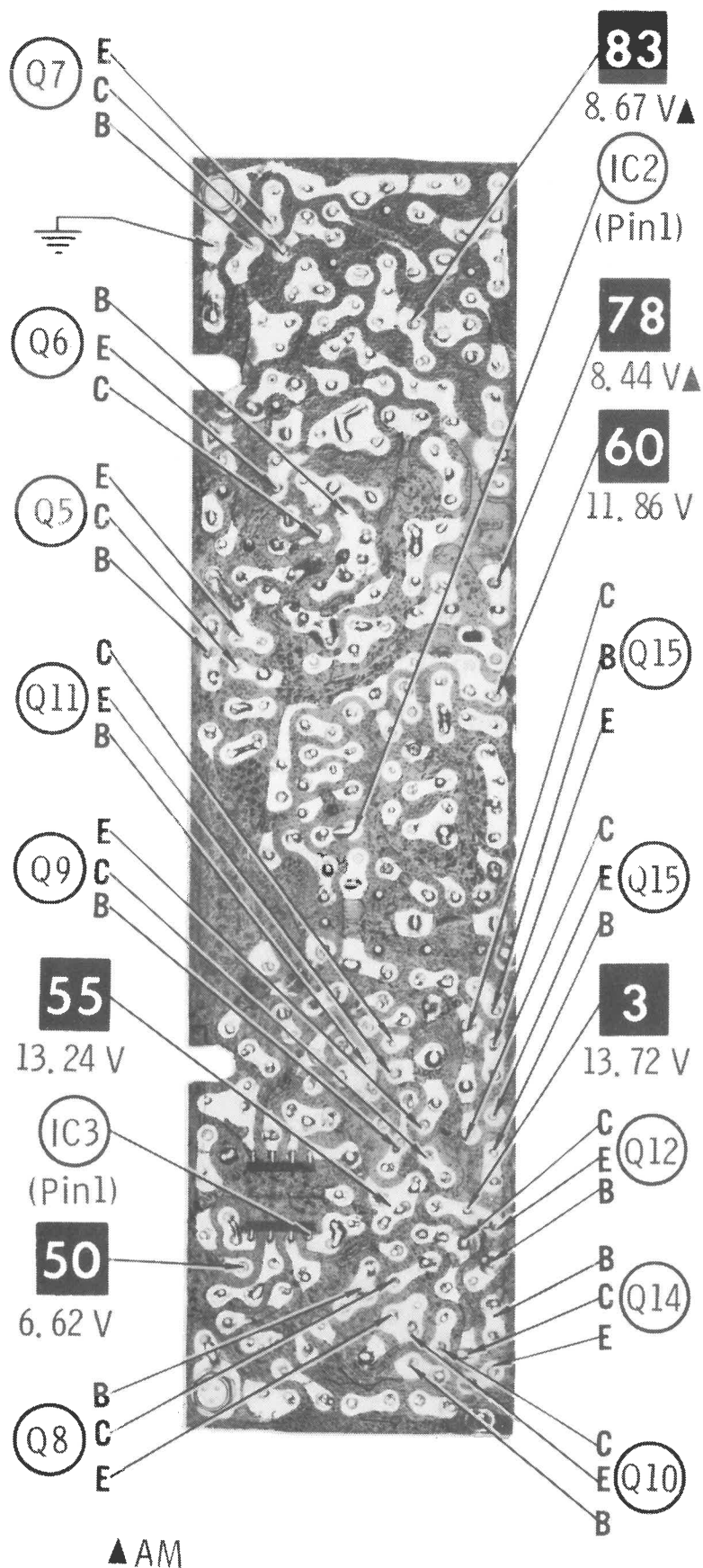


FM BOARD

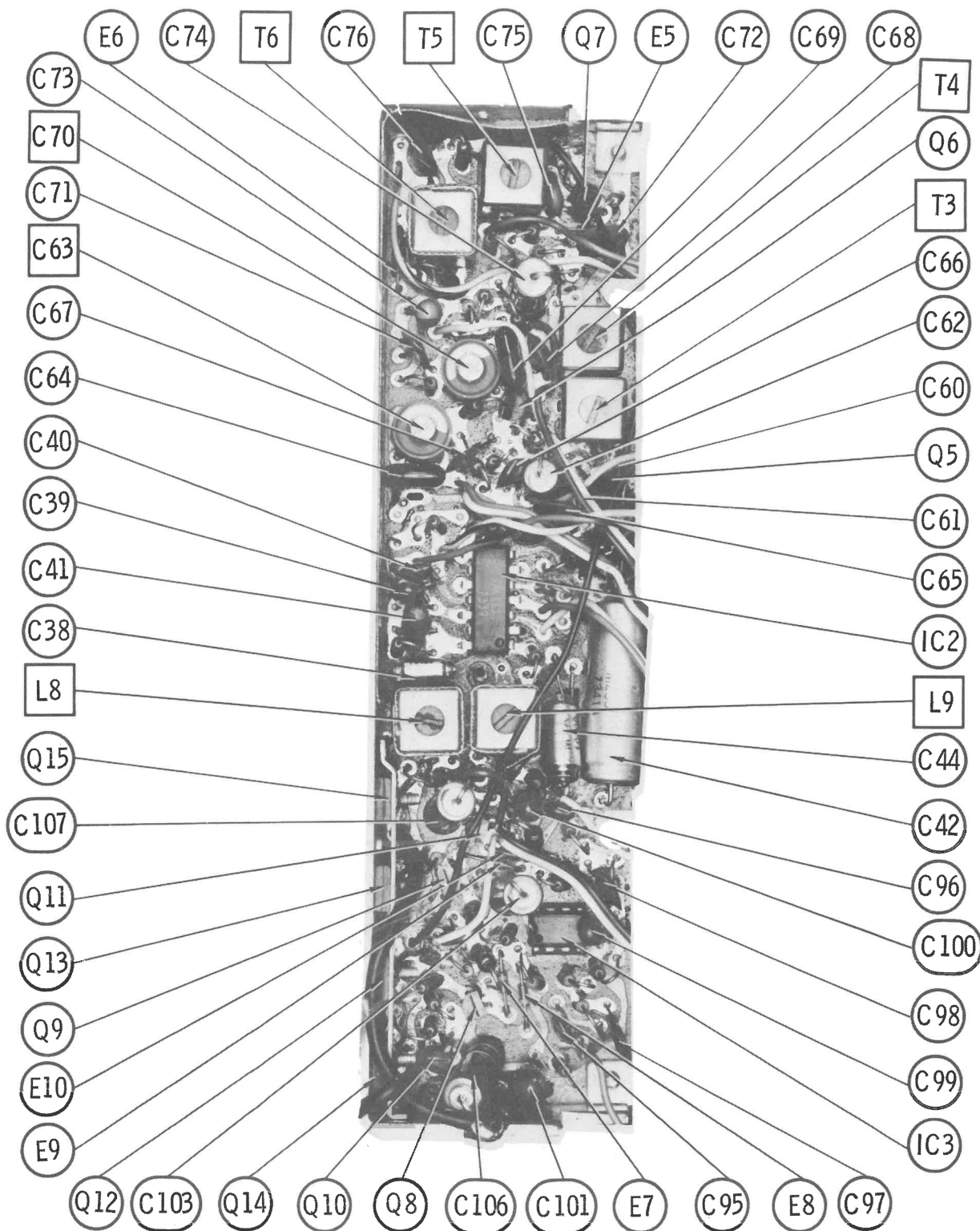


CONTROL BOARD

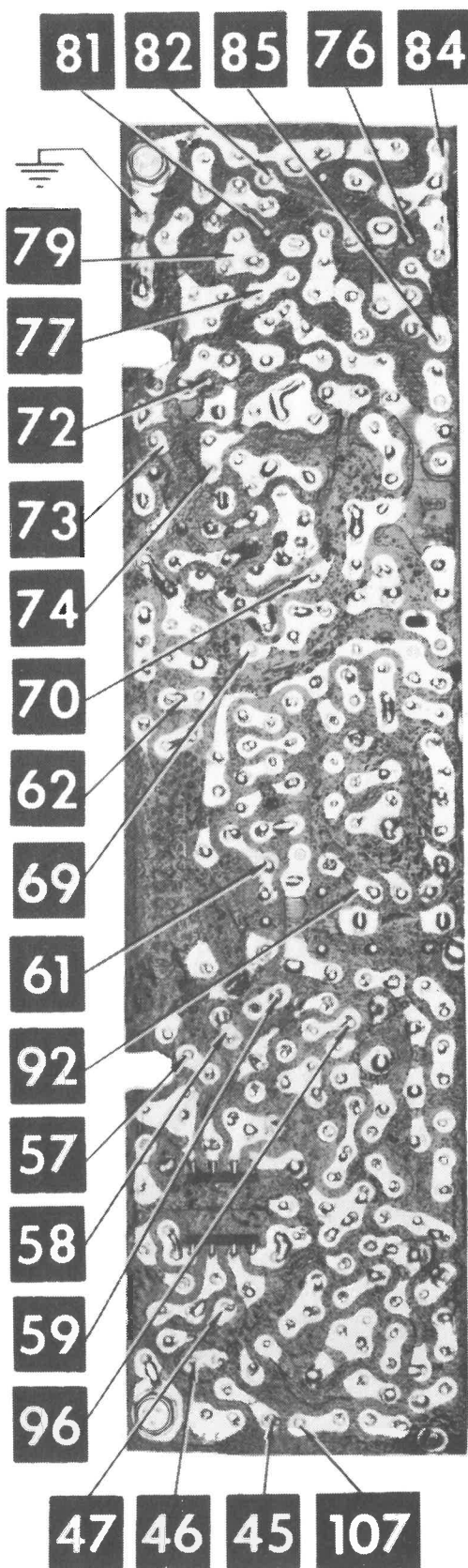
AMERICAN MOTORS 1975 SERIES



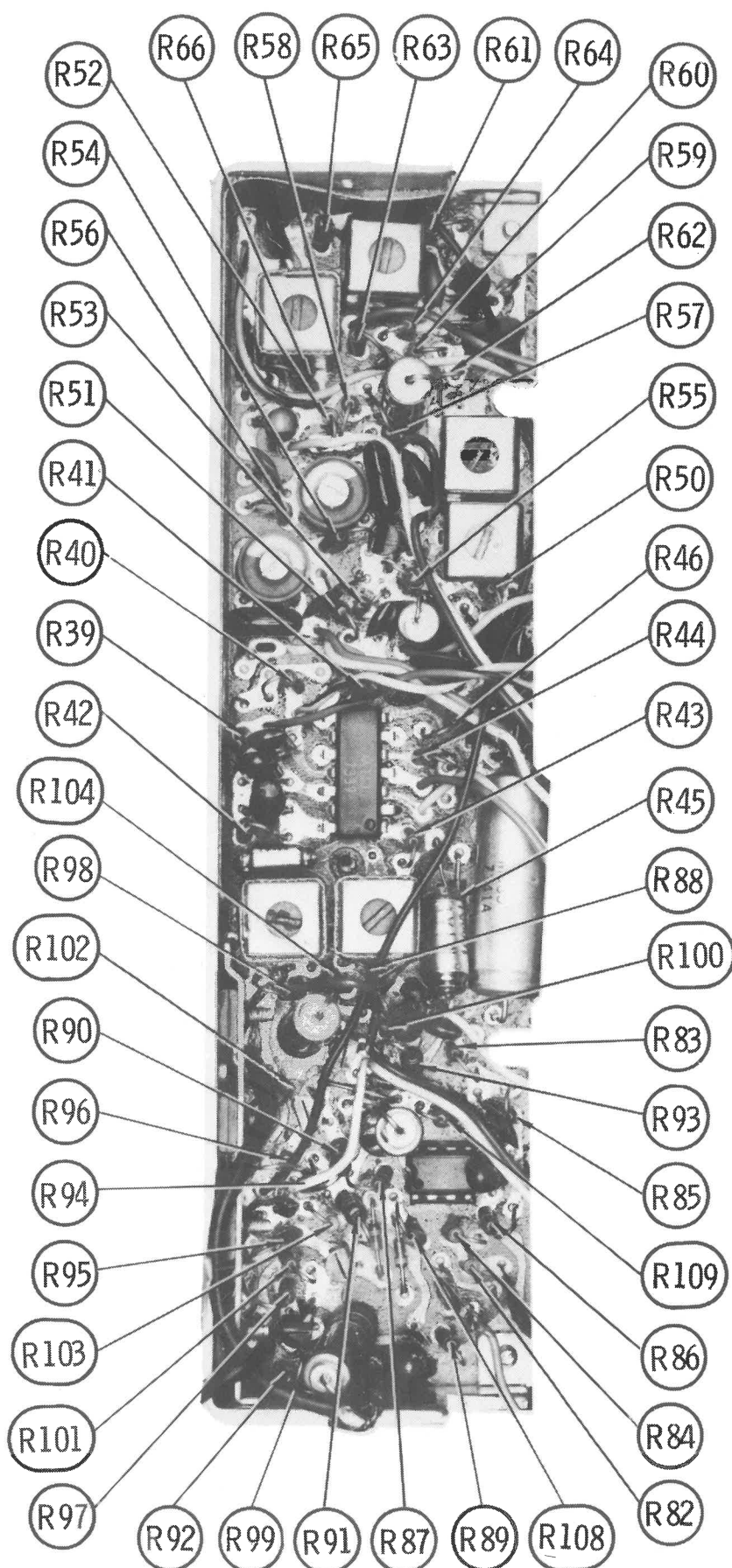
AM-MPX-AUDIO BOARD



AM-MPX-AUDIO BOARD

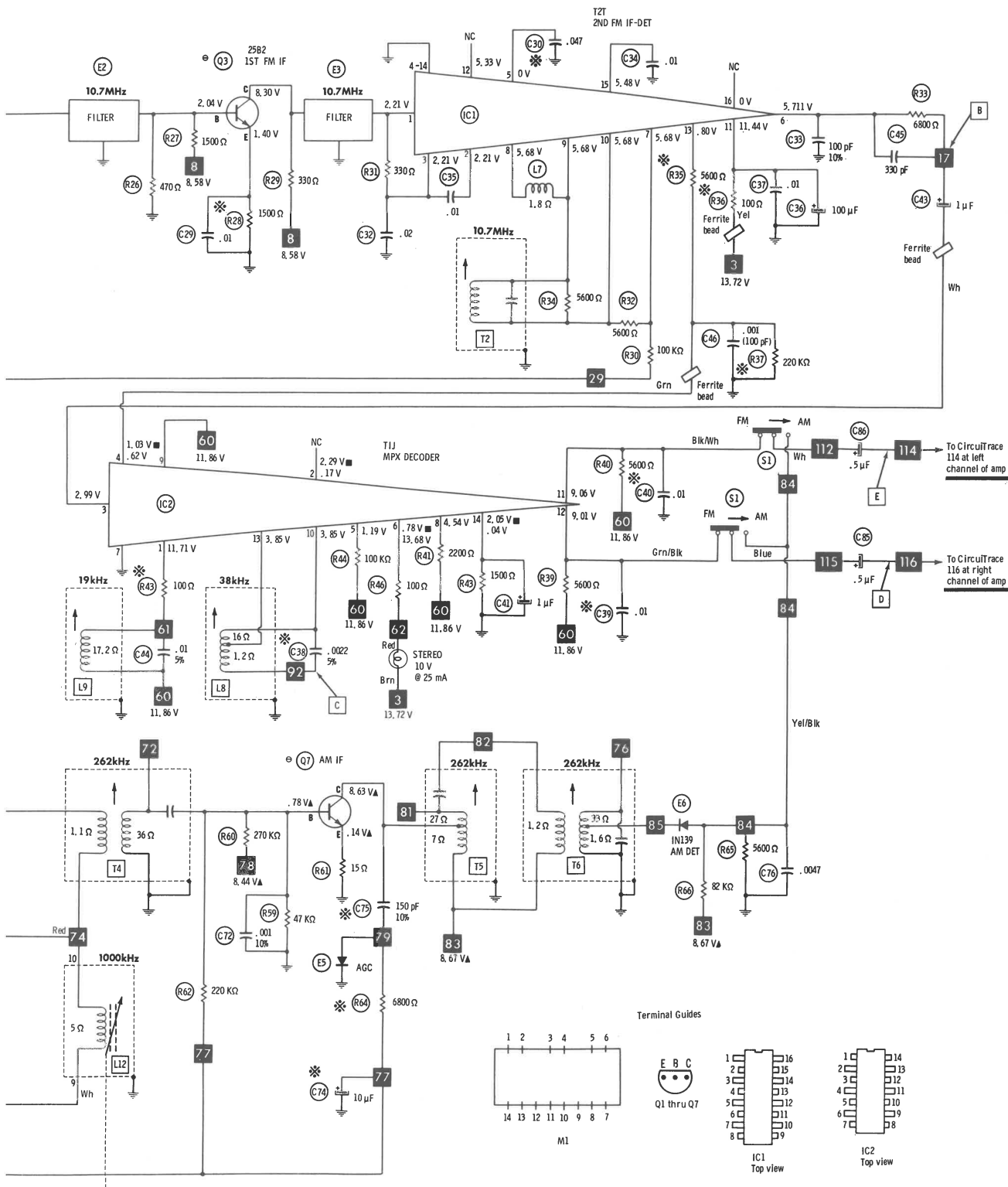


AM-MPX-AUDIO BOARD



AM-FM-AUDIO BOARD





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 8524 (Stranded) Available in 12 Colors
Shielded Hook-up Wire	Use BELDEN No. 8885
Rear Seat Speaker Extension Cable	Use BELDEN No. 8782 (Stranded) Coded Parallel Leads
Bonding Strap	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
E1	352*	48-40516C02	GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	
E5	DHD800	48-134816	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
E6	1N139	48-137495	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
E7	D7Z	48-137514	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
E8	D7Z	48-137514	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
E9	D7Z	48-137514	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
E10	D7Z	48-137514	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
E11		48-41763C03	GEZD-9.1	Z1209	ZB9.1B	HEPZ0412	RE 113	SK3060	RT-240	ECG5073
IC1	8.4V-9V Zener	51-10658A01			PTC767			SK3147	TVM-39	ECG788
IC2	T2T	51-10422A02	GEIC-8	IC-511	PTC709	HEPC6094P	RE 319-IC	SK3159	TVM-6	ECG718
IC3	T2R	51-10650A01				HEPC6102P			TVM-61	ECG778
Q1		48-134825	GE-17	TR-21	PTC136	HEPS0033	RE 9	SK3018	RT-108A	ECG107
Q2		48-134825	GE-17	TR-21	PTC136	HEPS0033	RE 9	SK3018	RT-108A	ECG107
Q3	25B2	48-134805	GE-20	TR-21	PTC136	HEPS0025	RE 10	SK3018	RT-107	ECG229
Q4		48-134857	GE-17	TR-95	PTC136	HEPS0020	RE 10	SK3018	RT-113	ECG108
Q5	25B2	48-134805	GE-20	TR-21	PTC136	HEPS0025	RE 10	SK3018	RT-107	ECG229
Q6	25A2	48-134804	GE-20	TR-21	PTC136	HEPS0025	RE 13	SK3018	RT-107	ECG123A
Q7	54D	48-134811	GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3124	RT-172	ECG123A
Q8	54E	48-134846(5)	GE-81	TR-24	PTC178	HEPS0015	RE 192	SK3137	RT-108A	ECG287
Q9	54E	48-134846(5)	GE-81	TR-24	PTC178	HEPS0015	RE 192	SK3137	RT-108A	ECG287
Q10	829A	48-134830(5)	GE-82	TR-30	PTC177	HEPS0019	RE 193	SK3138	RT-126A	ECG288
Q11	829A	48-134830(5)	GE-82	TR-30	PTC177	HEPS0019	RE 193	SK3138	RT-126A	ECG288
Q12	P4E	48-137331(5)								
Q13	P4E	48-137331(5)								
Q14	A6C	48-137145(5)								
Q15	A6C	48-137145(5)								

* Number on unit.

(5) Half of complementary pair.

AMERICAN MOTORS 1975 SERIES

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C36	100 16V	23-42674B43	EP15-100	PC100-16	VTT100F16	EV-1230
C41	1 15V	23-43280A17			TDC105M035EL	SD35-19
C42	400 16V	23-42674B10	EA15-500	WBR500-16	TT15X400	TVA-1161.5
C43	1 25V	23-42582B03			TDC105M035EL	SD35-19
C62	47 10V	23-42674B35	EP15-50	PC50-16	VTT47D16	EV-1226
C73	33 10V	23-42582B01			TDC336M010FL	SD10-339
C74	10 16V	23-42674B31	EA15-10	WBR10-25	TT15X10	TVA-1145
C85	.5 15V	23-43280A25			TDC474M050EL	SD50-R479
C86	.5 15V	23-43280A25			TDC474M050EL	SD50-R479
C87	.2 15V	23-43280A19			TDC224M050EL	SD50-R229
C88	.2 15V	23-43280A19			TDC224M050EL	SD50-R229
C99	33 10V	23-42582B01			TDC336M010FL	SD10-339
C100	6.8 35V	23-42582B10			TDC685M035FL	SD35-6R89
C101	6.8 35V	23-42582B10			TDC685M035FL	SD35-6R89
C102	400 16V	23-42674B10	EA15-500	WBR500-16	TT15X400	TVA-1161.5
C103	68 16V	23-42674B39	EA15-50	WBR50-25	MTA50E15	TVA-1150
C104	1500 16V	23-42674B41	EA15-2000	WBR1500-16	TT15X1500A	TVA-1175.5
C106	100 10V	23-42674B38 (1)	EA15-100	WBR100-16	MTA100E10	TVA-1130
	47 10V	23-42674B35 (1)	EP15-50	PC50-16	VTT47D16	EV-1226
C107	100 10V	23-42674B38 (1)	EA15-100	WBR100-16	MTA100E10	TVA-1130
	47 10V	23-42674B35 (1)	EP15-50	PC50-16	VTT47D16	EV-1226
C108	1000 10V	23-42674B42	EA15-1000	WBR1000-16	TC1210D	TVA-1128
C109	1000 10V	23-42674B42	EA15-1000	WBR1000-16	TC1210D	TVA-1128

(1) Used in some versions.

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.

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	22 NPO 10%	20-40429B03 (1) 20-40429B01 (1)	DTZ-22	NP022	CN0422	10TCC-Q22
C2	4.7 N150				*	10TCP-V47
C3	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C4	4.5-20 3.5-13					
C5	2.2 10% NPO	20-40429B03	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C6	.005		DC-502	GP5000	TA250	2SS-D50
C7	.005		DC-502	GP5000	TA250	2SS-D50
C8	33 10%		DTZ-33	NP033	CN0433	10TCC-Q33
C9	4.5-20					
C10	72 10%		DTZ-75	NP075	CN0475	10TCC-Q75
C11	8 10%					
C12	1 +.25 NPO					
C13	.005 20%		DC-502	GP5000	TA250	2SS-D50
C14	4.7 +.25 NPO					
C15	220 5%	20-40429B04 (1)	DTZ-220			10TCC-T22
C16	220 5%		DTZ-220			10TCC-T22
C17	10 N220 5%				*	10TCR-Q10
C18	3.5-9				*	10TCP-V39
C19	3.5 N150 10%					
C20	4.7 +.25 NPO					
C25	220 5%		DTZ-220			10TCC-T22
C26	220 5%		DTZ-220			10TCC-T22
C28	.01		DC-103	GP10000	MAG5011	2SS-S10
C29	.01		DC-103	GP10000	MAG5011	2SS-S10
C30	.047	20-40647C01			GP140	5GA-S40
C31	.1		DC-104	MGP1	MAG5001	TG-P10
C32	.02		DC-203		MAG5012	2SS-S20
C33	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C34	.01 10%					10TS-S10
C35	.01 10%					10TS-S10
C37	.01					10TS-S10
C38	.0022 N150 5%		CPR-2200J	CD19FD222J03	SX222	424ME2201J501
C39	.01 10%					10TS-S10
C40	.01 10%					10TS-S10
C44	.01 N150 5% 33V	20-40647C01	CPR-10000J	CD20FD103J03	SX110	10TS-T33
C45	330 10%		DD-331	GP330	GP333	10TS-D10
C46	.001 10%		DD-102		GP210	
C59	70-300					
C60	330 10%		DD-331	GP330	GP333	10TS-T33
C61	.0047 10%					10TS-D47
C63	10-60	20-43646B01				
C64	330 5%		CPR-330J	CD15FD331J03	SX333	424ME3300J501
C65	180 N750 5%		DTN-180			10TCU-T18
C66	.01 10%					10TS-S10
C67	.0047 10%					10TS-D47
C68	70 N750 5%		DTN-68	N68	CN7468	10TCU-Q68
C69	300 5%		CPR-300J	CD15FD301J03	SX330	424ME3000J501
C70	10-60					
C71	.0047 10%					10TS-D47
C72	.001 10%		DD-102		GP210	10TS-D10
C75	150 10%	20-43646B01	DTZ-150		CN0315	10TCC-T15
C76	.0047 10%					10TS-D47
C89	.02		DC-203		MAG5012	2SS-S20
C90	.02		DC-203		MAG5012	2SS-S20
C93	.047 10%			DPMS2S47	EWFI1A147	1PB-S47
C94	.047 10%			DPMS2S47	EWFI1A147	1PB-S47
C95	.047 10%			DPMS2S47	EWFI1A147	1PB-S47
C96	.047 10%			DPMS2S47	EWFI1A147	1PB-S47
C97	.0047 10%					10TS-D47
C98	.0047 10%					10TS-D47
C105	.047	21-560232	DC-503	MGP05	MAG5015	TGL-S50
C110	.001					
C111	.001					
C112	.001					
C113	.001					
C114	.001					
C115	.001					

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

(1) Used in some versions.

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.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R80a	Tone	30K	18-42925C03				
b	Volume - Left	50K Tap @ 13K	18C42925C03L (5)				
c	Volume - Right/Power Switch	50K Tap @ 13K					
R81	Balance	20K	18-43012C03 18C42334C03 (5)				
	Balance	20K	18-42334C01 (18)				
	Balance	20K	18-43438C06 (19)				
R107a	Fader - Right	35 2W	18-41993C02 (20)				
b	Fader - Left	35 2W					

(5) Number on unit.

(18) Used in Model 5HT3510 (3672718).

(19) Used in Model 5KJ3511 (5454307).

(20) Used in Models 5RA3509 (3665162), 5HT3510 (3672718), & 5RA3517 (3690422).

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	AM Antenna Choke	24-40788A08		4602	(1) Part of M1 (Tuner)
L2	FM Antenna	(1)			
L3	FM RF	(1)			
L4	FM Osc.	(1)			
L5	10.7MHz Trap	24-40788A08		4602	
L7	RF Choke	24-42991C06			
L8	38kHz	24-42814C02			
L9	19kHz	24-42814C02			
L10	AM Antenna	(1)			
L11	AM RF	(1)			
L12	AM Osc	(1)			
T1	FM Input IF	24-41713C05			
T2	Quadrature	24-42147C02			
T3	AM Input IF	24-41714C01			
T4	AM Interstage IF	24-41714C02			
T5	AM Interstage IF	24-41714C05			
T6	AM Output IF	24-41714C06			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L14	145mA (1) 245mA (2)	.5	.1mH	24-41694C04			(1) Models 5RA3504, 5RA3517 (2) Models 5HT3510, 5KJ3511

AMERICAN MOTORS 1975 SERIES

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.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1 SP2	5" PM, 8 Ohms 5" PM, 8 Ohms 5 1/4" PM, 8 Ohms	50-43488C01 50-43488C01 50-42796C01		Front Rear, Except 5RA3517 Rear: Model 5RA3517

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	5 A	65-122345		AGA5	HAF	301005	150145	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
E2 E3 M1	Ceramic Filter Ceramic Filter Tuner Assembly	91-43353A53 91-43353A53 77-41900C47 77-41900C48 77-41900C71	SFE10.7MA, replace in matched pairs. SFE10.7MA, replace in matched pairs. FS-263 (5RA3509, 5RA3517) FS-287 (5HT3510) FS-313 (5KJ3511)
S1	Tuning Coil Assembly Switch Printed Circuit Board Printed Circuit Board Printed Circuit Board	1-43000C06 40-43939B03 84-43002C01 84-42981C01 84-43008C01	AM/FM (5RA3509, 5RA3517) AM/FM (5HT3510, 5KJ3511) FM, No. 84D43482C01 AM/MPX/Audio, No. 84D42981C01. Control

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Escutcheon, 5RA3509, 5RA3517 (1)	1-43600C74	Knob, Volume, 5RA3509, 5KJ3511	36-42734C02
Escutcheon, 5HT3510 (1)	1-43600C91	Knob, Volume, 5RA3517	36-40243E01
Escutcheon, 5KT3511 (1)		Knob, Volume/Tuning, 5HT3510	36-40363C01
Scale, Dial 5HT3510	34-41353C03	Knob, Tuning 5RA3509, 5KJ3511	36-42734C02
Scale, Dial 5KJ3511	34-42329C03	Knob, Tuning, 5RA3517	36-40243E02
Pointer, Dial Assembly, 5RA3509, 5RA3517	52-42479B4	Knob, Tone/Fader 5RA3509	36-43939C01
Pointer, Dial Assembly 5HT3510	52-42479B38	Knob, Tone/Fader 5HT3510	36-40362C01
Pointer, Dial Assembly 5KJ3511	52-40281C20	Knob, Tone/Fader 5KJ3511	36-40039B01
Button, AM/FM, 5RA3509, 5RA3517	38-42928C01	Knob, Tone/Fader 5RA3517	36-40244E01
Button, AM/FM, 5HT3510	38-40185C01	Button, Tuning, 5RA3509, 5RA3517(5 used)	38-42185B02
Button, AM/FM 5KJ3511	38-41578C07	Button, Tuning, 5HT3510, 5KJ3511(5 used)	38-42185B01
Button, Balance 5HT3510	38-42929C01		
Button, Balance 5RA3509, 5RA3517	36-42927C01		

(1) Includes Dial Scale.