

PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



AUDIOVOX 1975 SERIES

NOTE: Chassis 136-1024 is basic unit for all models listed below.

BKS-75-TPX/A (Buick)	FMK-75-TPX/A (Ford, Merc.)
BU-75-TPX/A (Buick)	FMU-75-TPX/A (Ford)
CA-75-TPX/A (Chev)	FO-75-TPX/A (Ford, Merc.)
CH-75-TPX/A (Chev)	FPT-75-TPX/A (Ford, Merc.)
CHT-75-TPX/A (Chev, GMC)	FTR-75-TPX/A (Ford, Merc.)
CNO-75-TPX/A (Chev, Buick, Olds, Pontiac)	HO-75-TPX/A (Amer. Motors)
CPR-75-TPX/A (Merc)	MAT-75-TPX/A (Amer. Motors)
CTV-75-TPX/A (Chev)	OL-75-TPX/A (Olds.)
CVA-75-TPX/A (Chev)	OLF-75-TPX/A (Olds.)
DA-75-TPX/A (Dodge, Ply)	OPL-75-TPX/A (Opel)
DCF-75-TPX/A (Dodge, Chry, Ply)	PAC-75-TPX/A (Amer. Motors)
DMO-75-TPX/A (Dodge, Chry, Ply)	PF-75-TPX/A (Pontiac)
DTR-75-TPX/A (Dodge, Ply)	PGP-75-TPX/A (Pontiac)
DVA-75-TPX/A (Dodge, Ply)	PO-75-TPX/A (Pontiac)
ECO-75-TPX/A (Ford)	TM-2000 (Univ.)
FDT-75-TPX/A (Ford)	TM-2500 (Univ.) (Chas. 136-1037)
FGA-75-TPX/A (Ford, Merc.)	VE-75-TPX/A (Buick, Chev, Olds, Pontiac)

136-1027

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

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6AL-890

ADJUSTMENTS

ADJUST	REMARKS
Head Azimuth	Play a test cartridge and adjust B1 for maximum on an AC VTVM across output.
Head Height	Play a test cartridge, follow instructions with cartridge, and adjust B2 for proper response.

TROUBLE CHART

SYMPTOM	REMARKS
Capstan does not rotate.	Belt (1) dirty, worn, or broken. Assembly (10) binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch (S7) dirty. Cam (3) binding or worn. Pawl (4) worn. Assembly (6) binding. Solenoid (L6) defective or not supplied with power. Cartridge defective.
Wow or flutter	Belt (1) dirty or worn. Capstan dirty or binding. Cartridge defective. Motor defective.
Sound weak or distorted	Head dirty, misaligned, or defective. Cartridge defective. Amplifiers defective.
Tape is pulled from cartridge.	Cartridge defective. Capstan dirty or scored.

MECHANICAL PARTS LIST

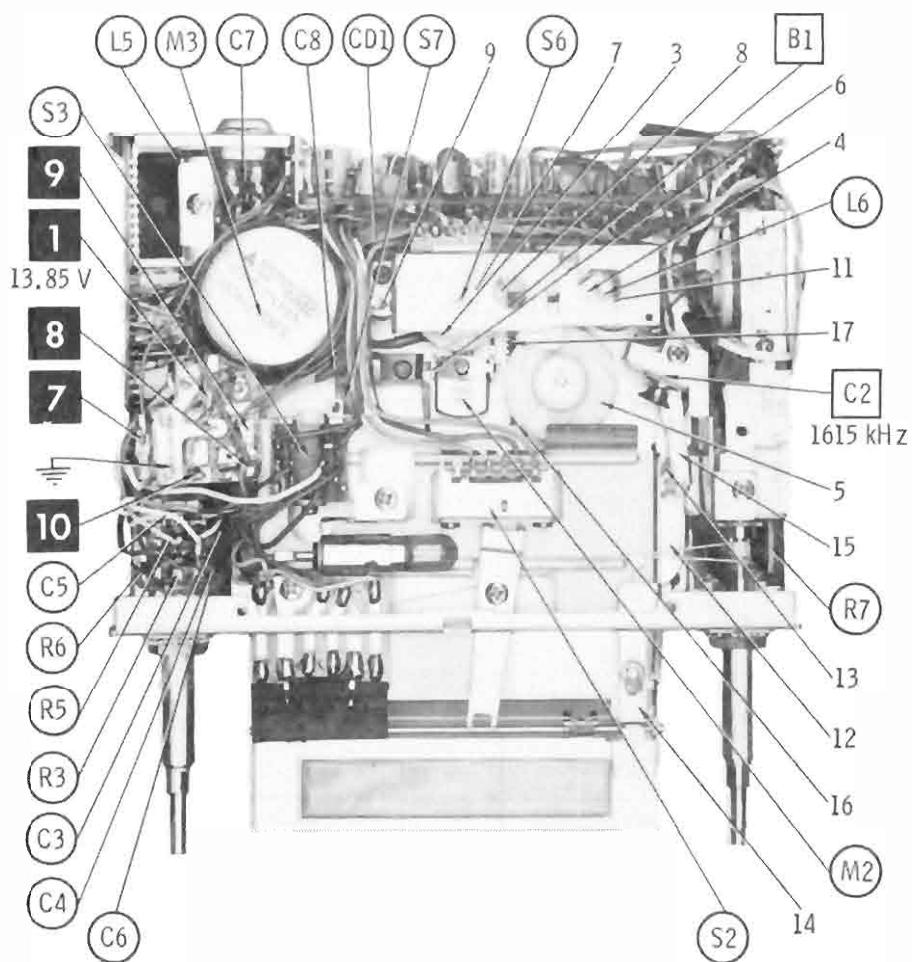
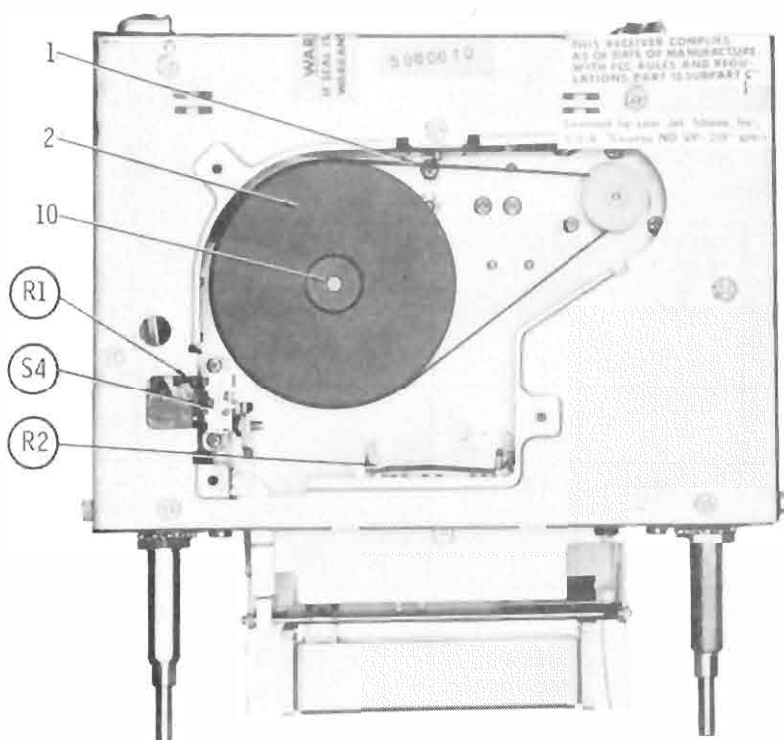
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1*	26810-173*	Flywheel Drive Belt*	9	26810-242	Height Tension Spring
2	26810-193-1	Flywheel	10	26810-171	Flywheel Housing Assembly
3	26810-180	Track Changing Cam Assembly	11	(1)	Pawl Spring
4	(1)	Pawl	12	26810-196	Cartridge Detent Arm
5	26810-181	Pawl Drive Wheel	13		Detent Spring
6	26810-197	Head Shift Assembly	14	26810-234	Eject Arm
7	26810-245	Head Lifting Spring	15		Detent Release Arm
8		Azimuth Adjustment Spring	16		Eject Rod
			17		Eject Rod Spring

(1) Part of Track Changing Cam Assembly (3).

* Flywheel Drive Belt - E-V/GAME Replacement Number 1424-21.
WALSCO Replacement Number 1424-21.

CLEANING LUBRICATING HEAD DEMAGNETIZING

Refer to "General Servicing Information" on page 4.



AUDIOVOX 1975 SERIES

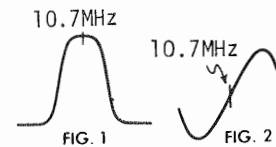
CHASSIS

ALIGNMENT INSTRUCTIONS

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

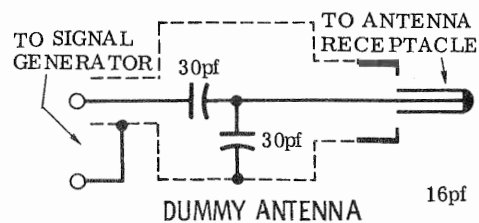
Suggested Alignment Tools: GC ELECTRONICS:

ALL8290, 8868, 9087



GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to point A, low side to ground.	455kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T103, T102	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C135, C127, C2	"
Thru dummy antenna to antenna input.	600kHz	Tune to signal	Output meter across voice coil.	L101	Adjust for maximum. Repeat alignment until no further improvement is noted.

With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust C3 for maximum output. Antenna adjustment C2 is located inside tape door right rear corner.



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

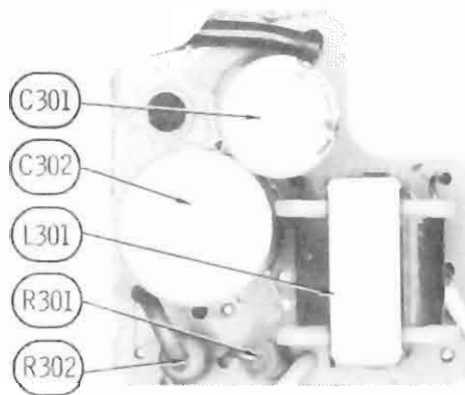
High side of generator thru .001uF to point A, low side to ground.

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.	T101, IFT	Adjust for maximum.

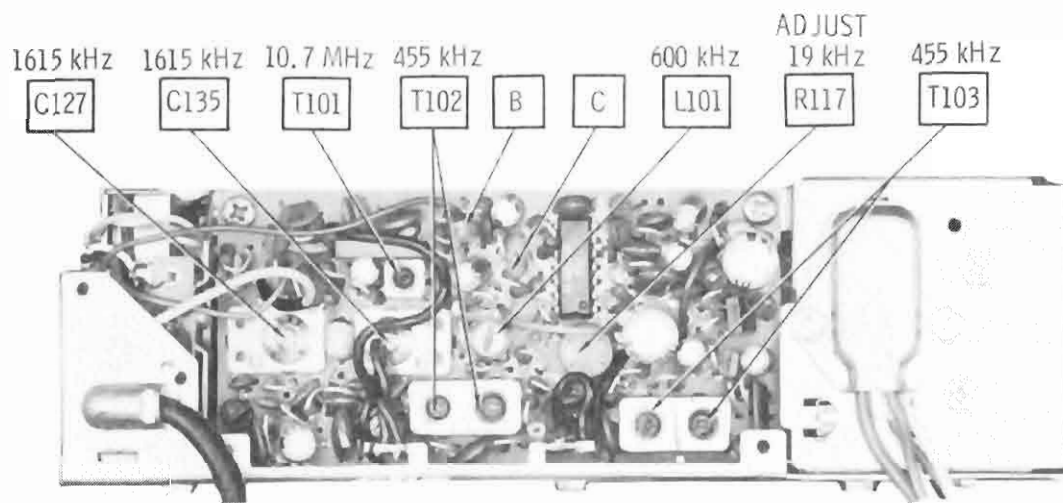
FM RF ALIGNMENT—SELECTOR IN FM POSITION

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.

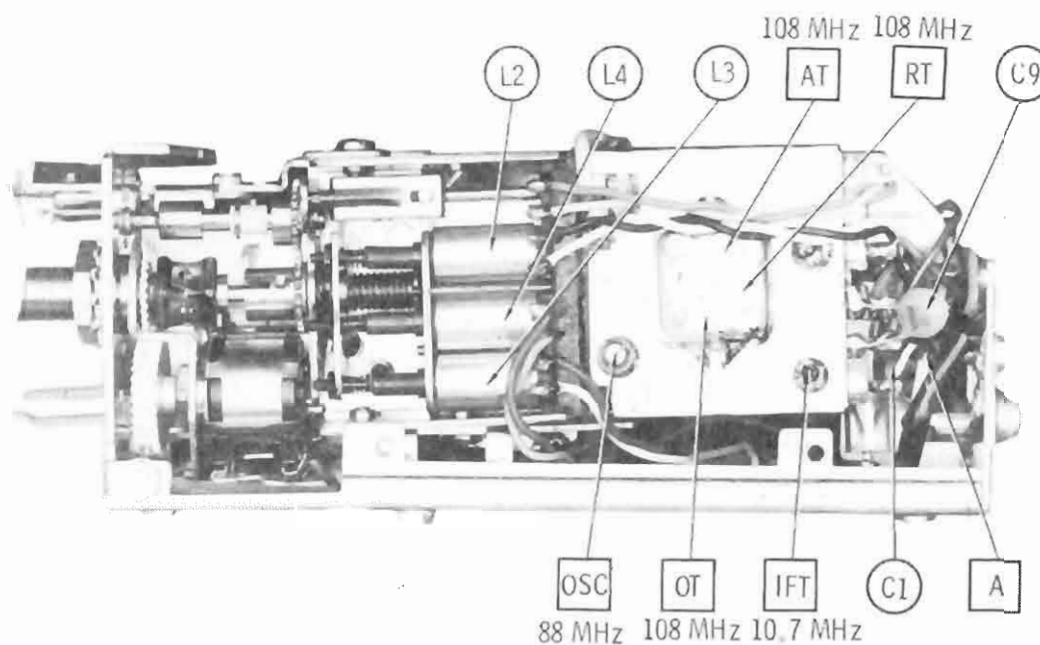
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
88MHz Unmodulated	Low freq end	DC probe of VTVM to point B, common to ground.	Osc	Adjust for maximum.
108MHz Unmodulated	Tune to signal	"	OT, RT, AT	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.



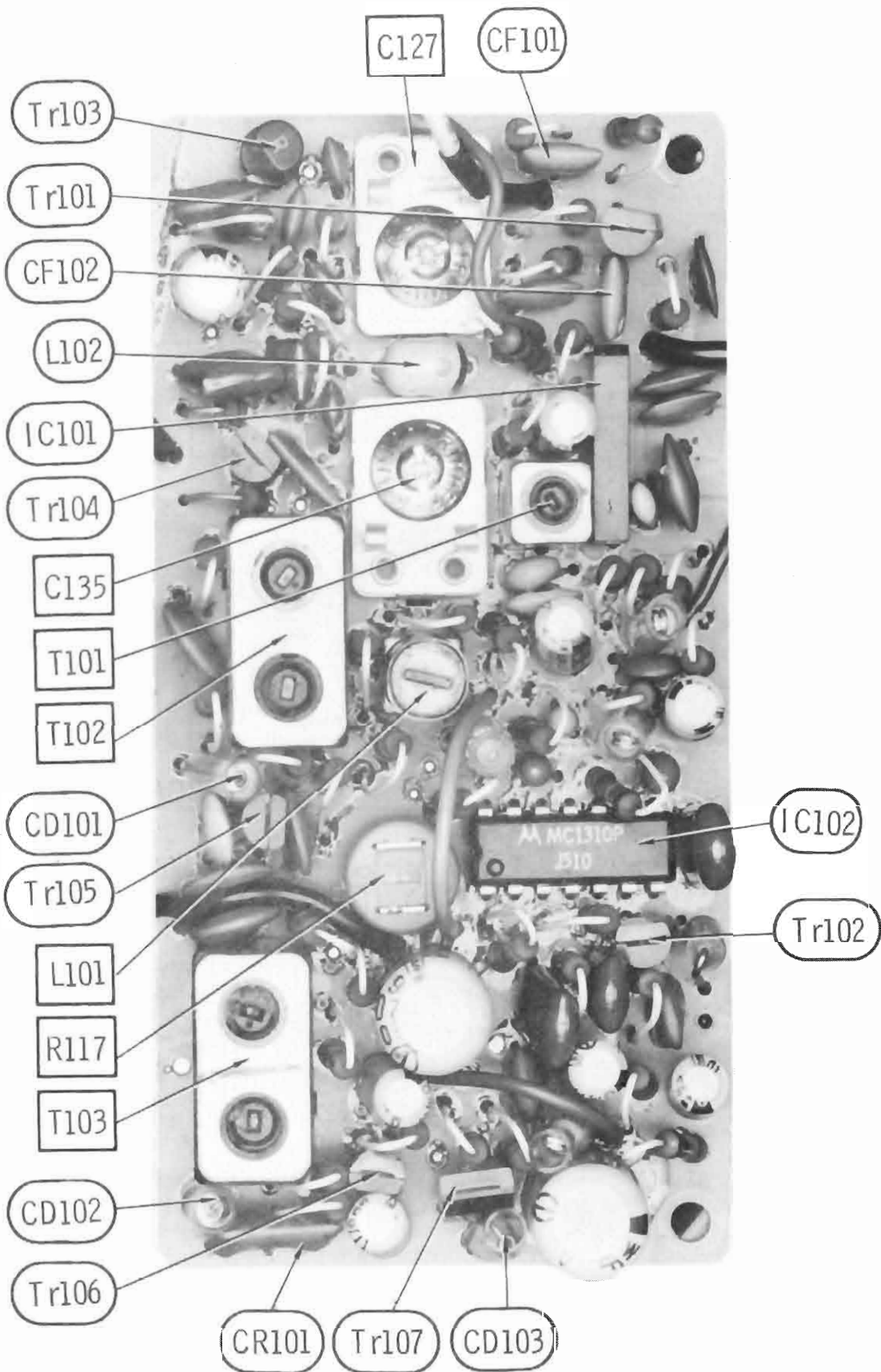
FILTER BOARD



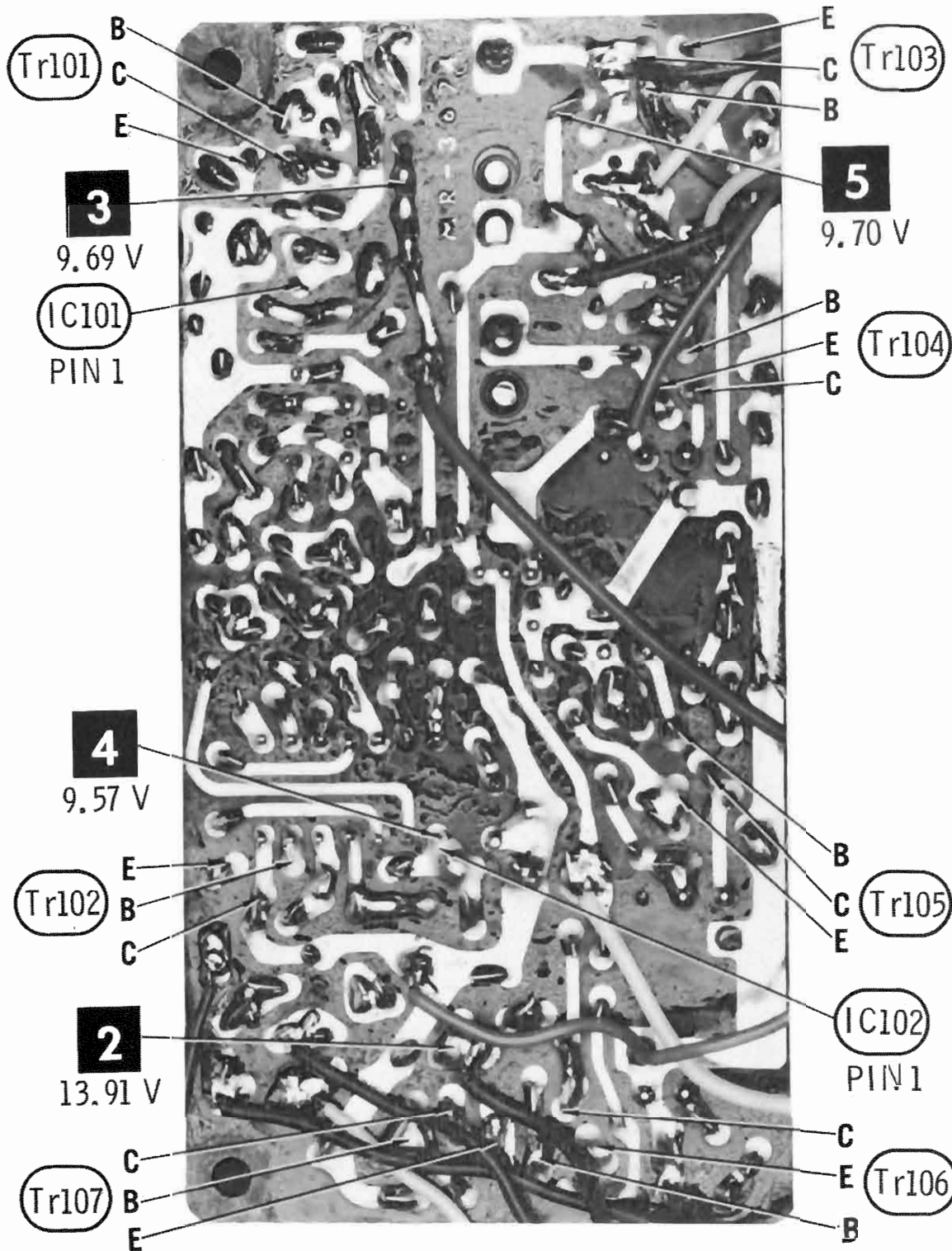
CHASSIS BOARD - REAR VIEW



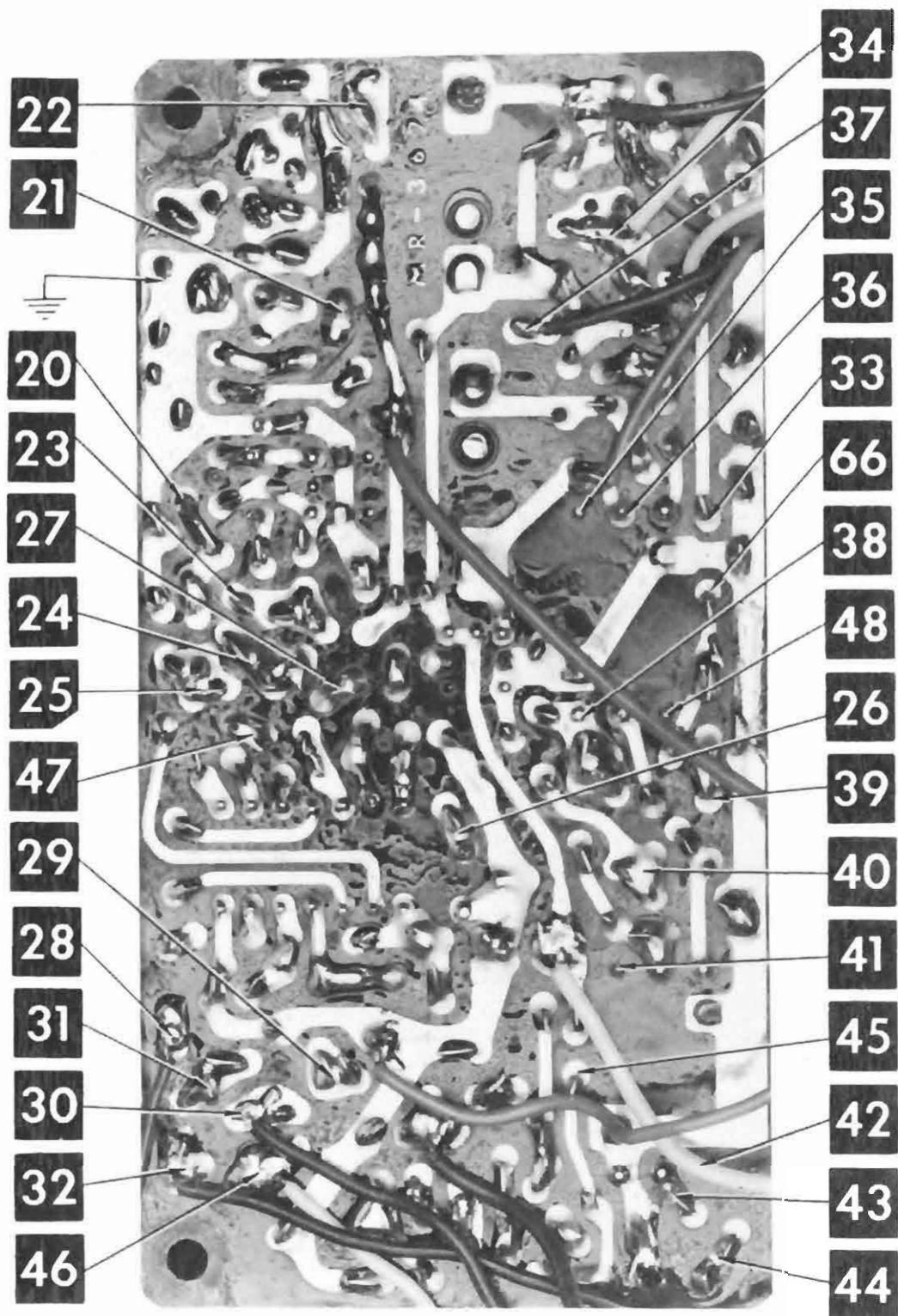
CHASSIS - RIGHT SIDE



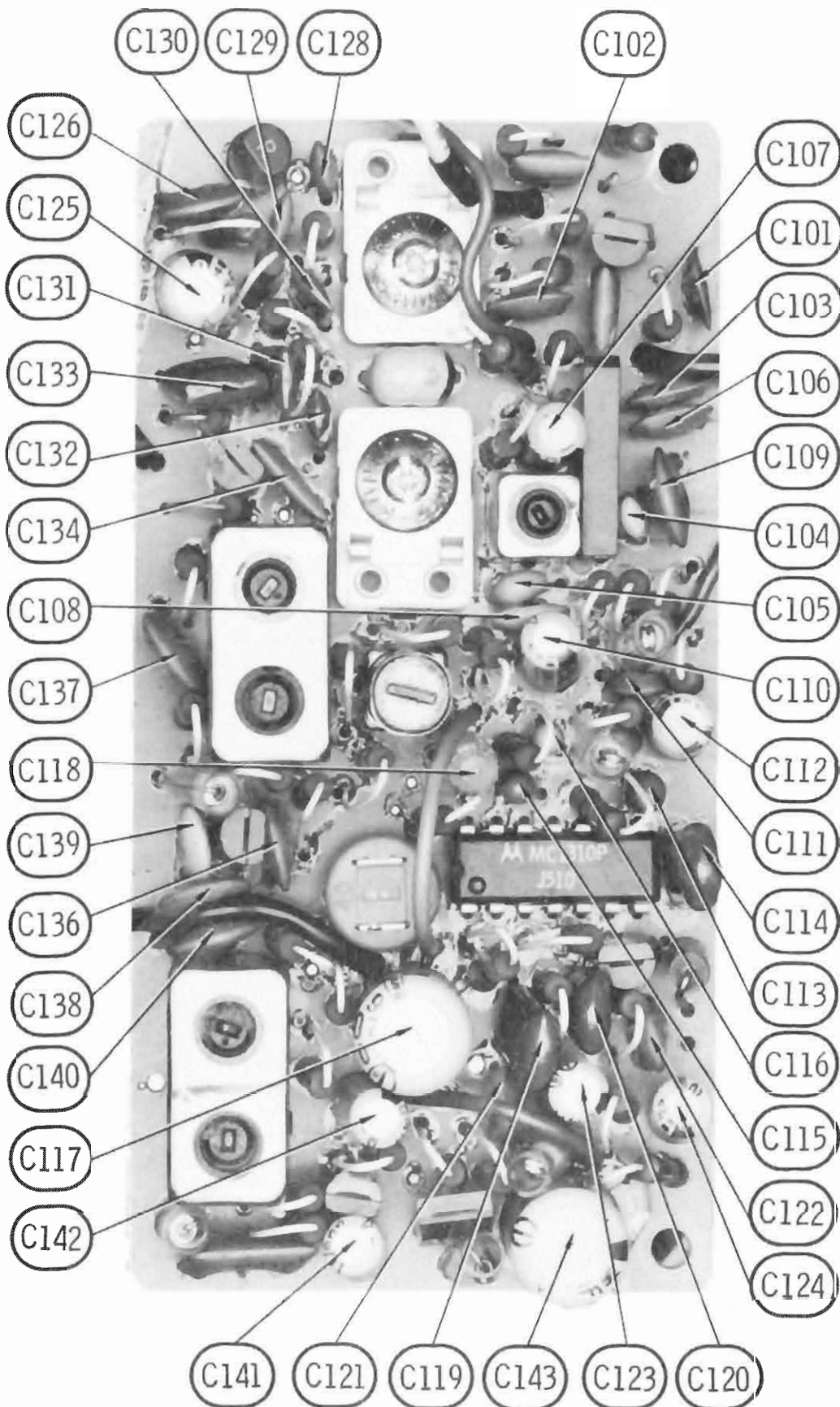
RADIO BOARD - TOP VIEW



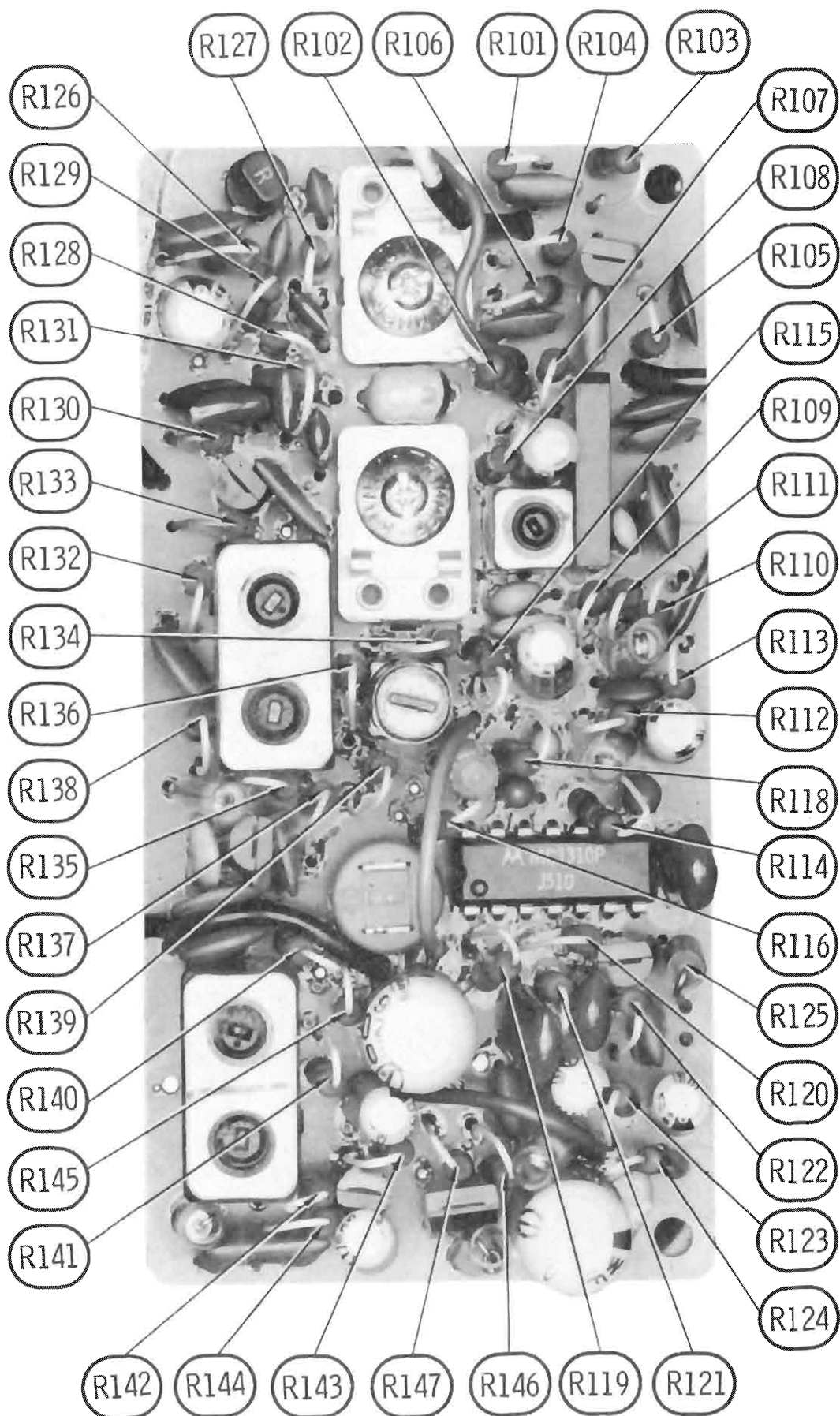
RADIO BOARD - BOTTOM VIEW



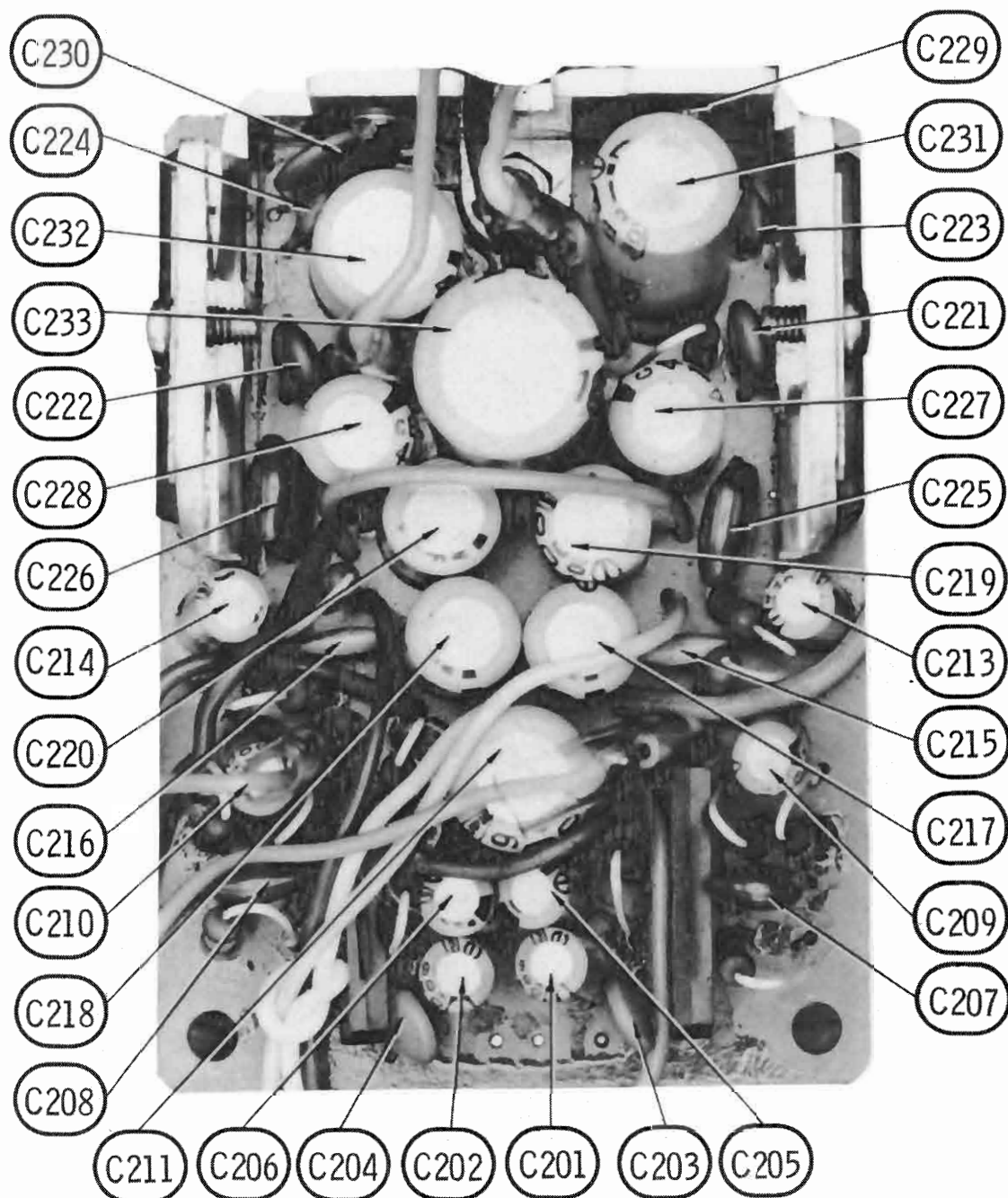
RADIO BOARD - BOTTOM VIEW



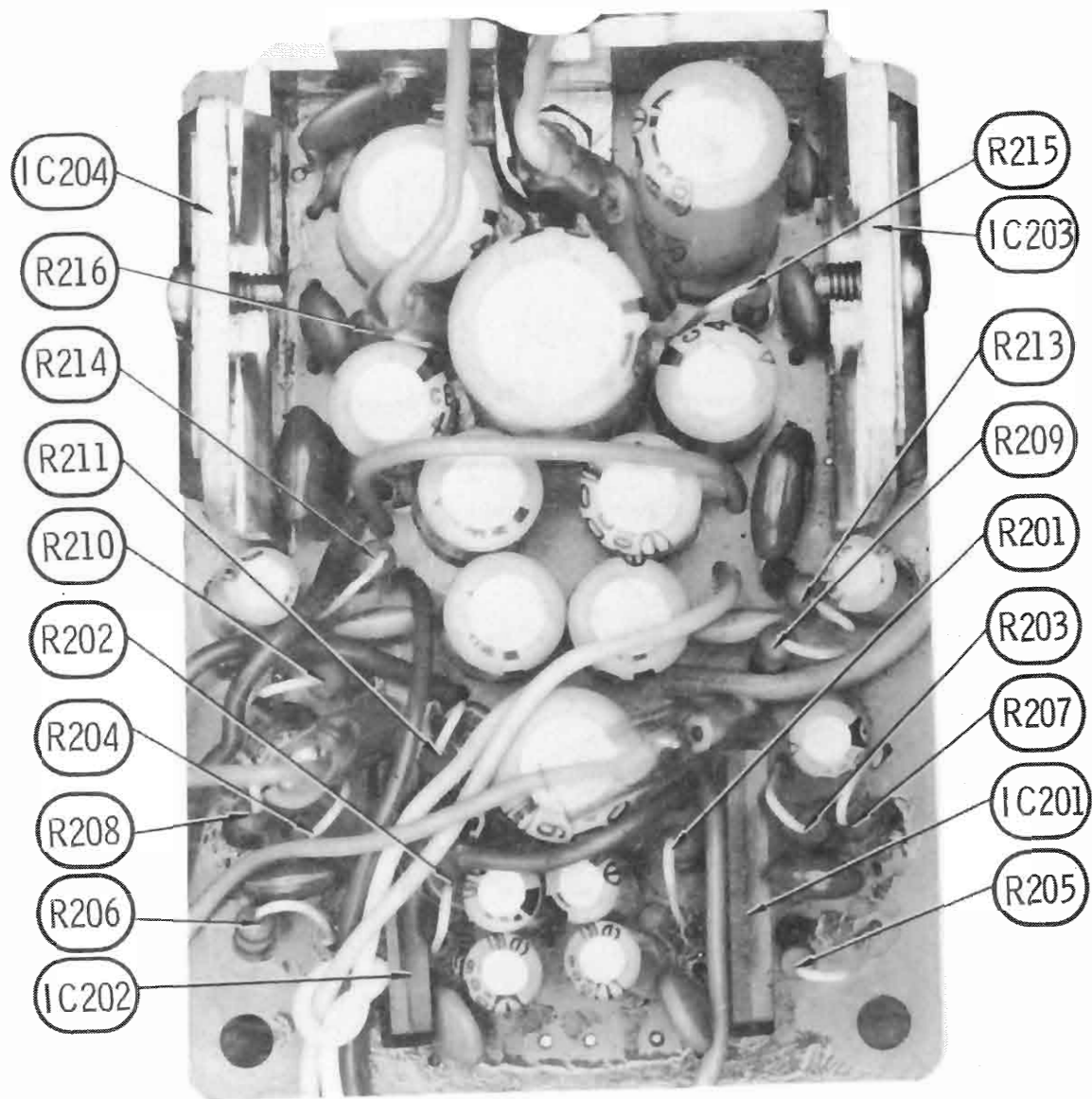
RADIO BOARD - TOP VIEW



RADIO BOARD - TOP VIEW



AUDIO BOARD - TOP VIEW

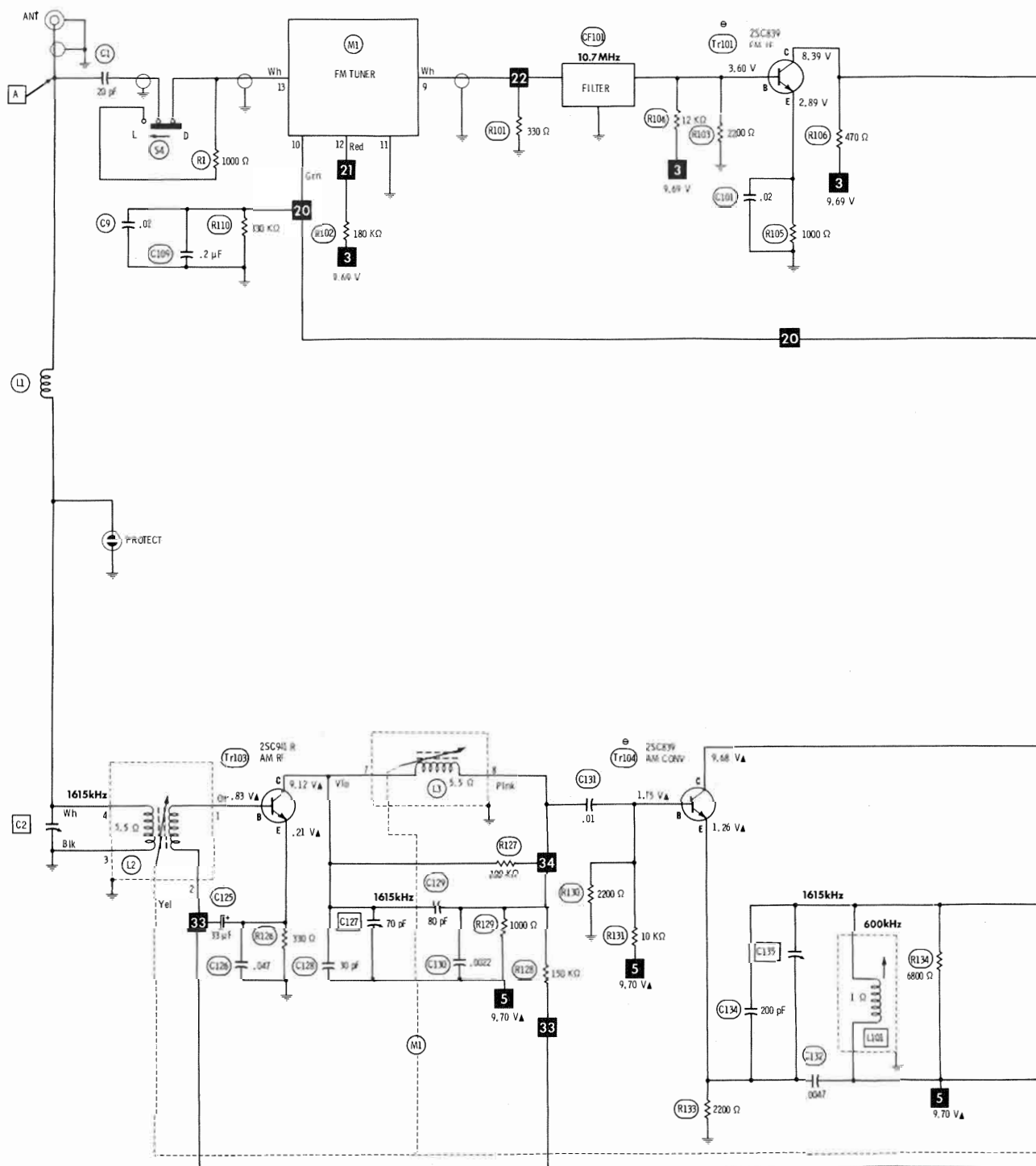


AUDIO BOARD - TOP VIEW



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NOTE: DEMAGNETIZE HEADS AFTER SERVICING



Measurements with switching as shown unless noted:

■ FM Stereo signal ▲ AM
◆ Tape play

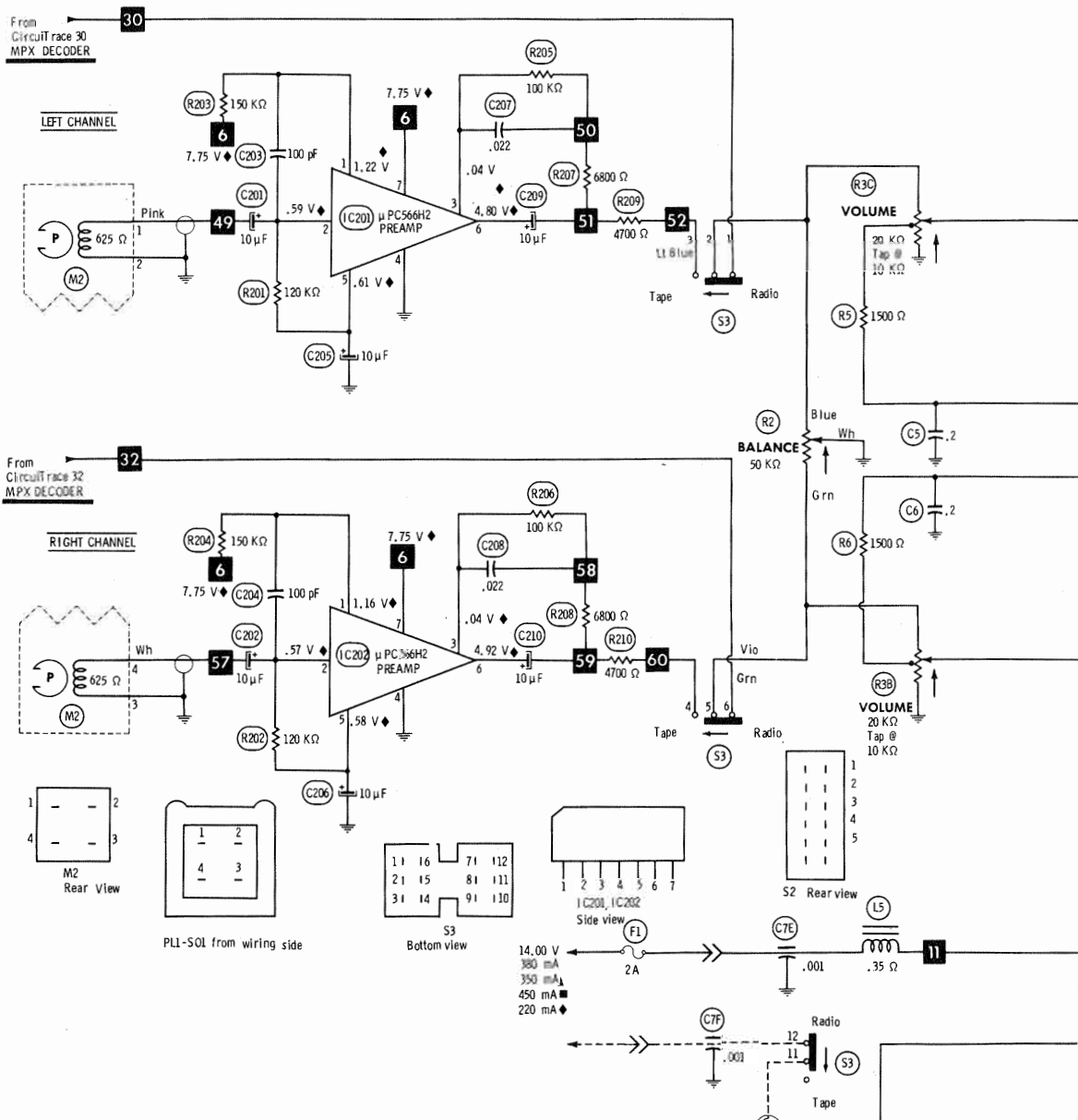
A PHOTOFACT STANDARD NOTATION SCHEMATIC
WITH **CIRCUITRACE®**

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Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

- ✕ Circuitry not used in some versions
- Circuitry used in some versions
- ⊖ See parts list
- ✱ Nominal value
- ⏏ Ground
- ⏏ Chassis
- ▽ Common tie point

NOTE: DEMAGNETIZE HEADS AFTER SERVICING

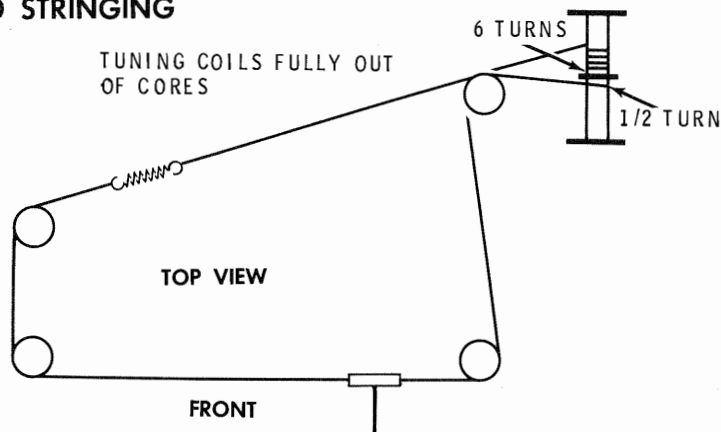


- Value in () used in some versions.

[illegible]



DIAL CORD STRINGING



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.

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA						
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
CD1	1N4002		GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116
	1N4001(1)		GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116
CD101	1N60P	26810-51	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD102	1N60P	26810-51	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD103	Q2Z-10A	26810-52	GEZD-10	PTC506	HEPZ0413	RE 115	SK3061	RT-241	ECG140
	10V Zener								
IC101	TA7130P	26810-156							
IC102	MC1310P	26810-157							
IC201	UPC566H2	26810-158							
IC202	UPC566H2	26810-158							
IC203	TA7205P	26810-159							
	TA7205A(1)								
IC204	TA7205P	26810-159							
	TA7205A(1)								
TR101	2SC839	26810-151	GE-61	PTC101	HEPS0024	RE 13	SK3046	RT-107A	ECG123A
	2SC1675	26810-151(1)	GE-20	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG229
TR102	2SA642	26810-152	GE-82	PTC103	HEPS0019	RE 26	SK3118	RT-126A	ECG159
TR103	2SC941R	26810-153	GE-210	PTC115	HEPS0016	RE 192	SK3122	RT-102	ECG199
TR104	2SC839	26810-151	GE-61	PTC101	HEPS0024	RE 13	SK3046	RT-107A	ECG123A
	2SC1675	26810-151(1)	GE-20	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG229
TR105	2SC839	26810-151	GE-61	PTC101	HEPS0024	RE 13	SK3046	RT-107A	ECG123A
	2SC1675	26810-151(1)	GE-20	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG229
TR106	2SC945	26810-154	GE-212	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG123A
TR107	2SD471	26810-155	GE-47	PTC136	HEPS0014	RE 17	SK3020	RT-172	ECG289
	2SC509	26810-155(1)	GE-81	PTC136	HEPS0014	RE 17	SK3024	RT-172	ECG128

(1) Used in some versions.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C107	10 16V	26810-10	PC10-25	VTT10A25	EV-1222
C110	1 50V	26810-12	PC1-50	MTV1CB50	EV-1615
C112	1 50V	26810-12	PC1-50	MTV1CB50	EV-1615
C113	2.2 16V	26810-14		TDC225M035FL	SD35-2929
C115	.22 35V	26810-16		TDC224M050EL	SD50-R229
C116	.47 35V	26810-17		TDC474M050EL	SD50-R479
C117	220 16V	26810-18	PC250-25	VTT220G16	EV-1240
C123	3.3 35V	26810-22	PC5-50	VTT3R3A50	EV-1618
C124	3.3 35V	26810-22	PC5-50	VTT3R3A50	EV-1618
C125	33 6.3V	26810-23	PC30-25	VTT33A10	EV-1125
C141	3.3 35V	26810-22	PC5-50	VTT3R3A50	EV-1618
C142	3.3 35V	26810-22	PC5-50	VTT3R3A50	EV-1618
C143	220 16V	26810-18	PC250-25	VTT220G16	EV-1240
C201	10 16V	26810-10	PC10-25	VTT10A25	EV-1222
C202	10 16V	26810-10	PC10-25	VTT10A25	EV-1222
C205	10 16V	26810-10	PC10-25	VTT10A25	EV-1222
C206	10 16V	26810-10	PC10-25	VTT10A25	EV-1222
C209	10 16V	26810-10	PC10-25	VTT10A25	EV-1222
C210	10 16V	26810-10	PC10-25	VTT10A25	EV-1222
C211	220 16V	26810-18 (1)	PC250-25	VTT220G16	EV-1240
	330 16V	26810-34 (1)	WBR300-35	VTT330H16	EV-1245
C213	1 50V	26810-12	PC1-50	MTV1CB50	EV-1615
C214	1 50V	26810-12	PC1-50	MTV1CB50	EV-1615
C217	47 16V	26810-35	PC50-16	VTT47D16	EV-1226
C218	47 16V	26810-35	PC50-16	VTT47D16	EV-1226
C219	100 10V	26810-36	PC100-10	VTT100E10	EV-1130
C220	100 10V	26810-36	PC100-10	VTT100E10	EV-1130
C227	47 16V	26810-35	PC50-16	VTT47D16	EV-1226
C228	47 16V	26810-35	PC50-16	VTT47D16	EV-1226
C231	470 16V	26810-38	PC500-16	VTT470J16	EV-1250
C232	470 16V	26810-38	PC500-16	VTT470J16	EV-1250
C233	1000 16V	26810-39	PC1000-16	VTT1000L16	EV-1260
C234	470 16V	26810-38	PC500-16	VTT470J16	EV-1250
C235	1000 16V	26810-39	PC1000-16	VTT1000L16	EV-1260

(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	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	20	26810-2	DTZ-20	NP020	CN0420	10TCC-Q20
C2	60					
C3	.2 12V			DPMS2P2	PVC602	2PS-P20
C4	.2 12V			DPMS2P2	PVC602	2PS-P20
C5	.2 12V			DPMS2P2	PVC602	2PS-P20
C6	.2 12V			DPMS2P2	PVC602	2PS-P20
C7A	.001	(1)				
B	.001	(1)				
C	.001	(1)				
D	.001	(1)				
E	.001	(1)				
C8	.05	26810-8	DC-503	MGP05	MAG5015	TGL-S50
C9	.02		DC-203		MAG5012	2SS-S20
C101	.02		DC-203		MAG5012	2SS-S20
C102	.02		DC-203		MAG5012	2SS-S20
C103	.02		DC-203		MAG5012	2SS-S20
C104	22 N220				*	10TCR-Q22
C105	10	26810-25	DTZ-10	NP010	CN0410	10TCC-Q10
C106	.02		DC-203		MAG5012	2SS-S20
C108	220		DD-221		GP322	10TS-T22
C109	.2 12V			DPMS2P2	PVC602	2PS-P20
C111	.001		DD-102	GP1000	GP210	2SS-D10
C114	.047		DC-503	MGP05	MAG5015	TGL-S50
C118	470	26810-26	DD-471	GP470	GP347	10TS-T47
C119	.033 25V		DC-303		GP130	TG-S30
C120	.033 25V		DC-303		GP130	TG-S30
C121	.022 25V		DC-203		MAG5012	2SS-S20
C122	.022 25V		DC-203		MAG5012	2SS-S20
C126	.047 25V		DC-503	MGP05	MAG5015	TGL-S50
C127	70	26810-27				
C128	30					
C129	80		DTZ-82	NP082	CN0482	10TCC-Q82
C130	.0022		DD-222		GP222	2SS-D22
C131	.01		DC-103	GP10000	MAG5011	2SS-S10
C132	.0047		DD-472	GP4700	GP247	2SS-D47
C133	.047	26810-31	DC-503	MGP05	MAG5015	TGL-S50
C134	200 N470				*	10TCT-T20
C135	70					
C136	.047 25V		DC-503	MGP05	MAG5015	TGL-S50
C137	.2 12V			DPMS2P2	PVC602	2PS-P20
C138	.047 25V		DC-503	MGP05	MAG5015	TGL-S50
C139	220	26810-25	DD-221		GP322	10TS-T22
C140	.047 25V		DC-503	MGP05	MAG5015	TGL-S50
C203	100		DTZ-100	NP0100	CN0310	10TCC-T10
C204	100		DTZ-100	NP0100	CN0310	10TCC-T10
C207	.022		DC-203		MAG5012	2SS-S20
C208	.022		DC-203		MAG5012	2SS-S20
C215	220	26810-25	DD-221		GP322	10TS-T22
C216	220		DD-221		GP322	10TS-T22
C221	100		DTZ-100	NP0100	CN0310	10TCC-T10
C222	100		DTZ-100	NP0100	CN0310	10TCC-T10
C223	50		DTZ-50	NP050	CN0450	10TCC-Q50
C224	50		DTZ-50	NP050	CN0450	10TCC-Q50
C225	.047	26810-84	DC-503	MGP05	MAG5015	TGL-S50
C226	.047		DC-503	MGP05	MAG5015	TGL-S50
C229	.2 12V			DPMS2P2	PVC602	2PS-P20
C230	.2 12V			DPMS2P2	PVC602	2PS-P20

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

(1) Part of Feedthru Assembly Part Number 26810-4.

AUDIOVOX 1975 SERIES

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	TRW PART No.
R2	Balance	20K	26810-81			
R3A	Tone	50K	VR-136 (5)			
B	Volume - Right	20K Tap @ 10K	26810-82			
C	Volume - Left/Power Switch/Manual Program Switch	20K Tap @ 10K				
	Tone	50K	26810-83 (18)			
	Volume - Right	20K Tap @ 10K				
	Volume - Left/Power Switch/Manual Program Switch	20K Tap @ 10K				
R7A	Fader - Left	100 2W	26810-84			
B	Fader - Right	100 2W	VR-234 (5)			
R117	19kHz - Adjust	6800	26810-106			
			VR-134 (5)			

(5) Number on unit.

(18) Used in Model TM-2500/136-1027.

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.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	AM Ant Choke (4.7uH)	2681071			(1) Part of M1 (Tuner)
L2	AM Ant	(1)			
L3	AM RF	(1)			
L4	AM Osc Tuning	(1)			
L101	AM Osc	26810-75			
L102	Image Trap (4.7uH)	26810-76			
T101	Quadrature	26810-141			
T102	IF (455kHz)	26810-142			
T103	IF (455kHz)	26810-143			

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.	
L5	450mA	.35	1.7mH	26810-73			
L301	100mA	.4	1.3mH	26810-77			

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	2A	26810-282						

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF101	Filter	26810-53	10.7MHz (SFE 10.7mA on unit)
CF102	Filter	26810-53	10.7MHz (SFE 10.7mA on unit)
CR101	Network	26810-54	AM Selector
L6	Solenoid	26810-74	Headshift
M1	Tuner	26810-72	(Assembly)
M2	Head	26810-56	8-Track Stereo Play
M3	Motor	26810-57	Tape Transport (2400 rpm @ 13.73V)
S2	Switch	26810-131	AM/FM
S3	Switch	26810-132	Tape/Radio
S4	Switch	26810-133	Local
S6	Switch	26810-180	Program Indicator (Cam Assembly)
S7	Switch	26810-262	Auto Program Selector
	Printed Circuit Board	26810-218	IF/MPX (No. MR3674)
	Printed Circuit Board	26810-216	Audio (No. KR3671)
	Printed Circuit Board	26810-217	Filter
	Printed Circuit Board Assembly	26810-61	Program Indicator

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

ITEM	PART No.	ITEM	PART No.
Escutcheon (Assembly) (1) (3)	26810-191	Button, Eject (3)	26810-202
Escutcheon (Assembly) (1) (4)	26810-191		26810-203
Tape Door (Assembly) (2)	26810-189	Button, Local (3)	26810-204
Tape Door Shaft	26810-236		26810-205
Tape Door Spring	26810-244	Knob, Tone & Fader (5)	26810-206
Dial Pointer	26810-219		26810-207
		Knob, Volume & Tuning (4)	26810-208

(1) Includes AM/FM Button, Balance Knob.

(2) Includes dial scale.

(3) Models 136-1024, 136-1027.

(4) Models TM2000, TM2500.

(5) Model TM2500.

(6) Model TM2000.

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