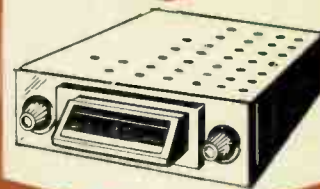


# SAMS PHOTOFACT<sup>®</sup>

## AUTO RADIO SERIES



AR-223

# 223

AUG., 1976



### CONTENTS

#### AUDIOVOX

1975 Series

#### DODGE

Demon, Swinger (76)  
2CH1605, 5CH1605

#### FORD

Granada, Mustang (76)  
1FD4607, 2FD4607

Maverick (76)  
1FD4608, 2FD4608

Pinto (76)  
1PN4605

#### MERCURY

Comet (76)  
1FD4608, 2FD4608

Monarch (76)  
1FD3607, 2FD4607

#### PLYMOUTH

Duster, Scamp  
Valiant (76)  
2CH1605, 5CH1605

#### UNIVERSAL

AFCO  
SB-480

#### UNIVERSAL (Cont.)

Channel Master  
6275  
6382

Motorola  
5FM216A  
5FM365A

Realistic  
12-1802



\$3.50

\$4.40 IN CANADA

Cat. No. AR-223



# SAMS PHOTOFACT<sup>®</sup>

## AUTO RADIO SERIES



VOLUME

**223**



by the

*Howard W. Sams* ENGINEERING STAFF



**HOWARD W. SAMS & CO., INC.**

INDIANAPOLIS INDIANA

**FIRST EDITION  
FIRST PRINTING—AUGUST, 1976**

**PHOTOFACT®  
AUTO RADIO SERIES  
VOLUME 223**

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Library of Congress Catalog Card Number: 49-11493



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**AUTO RADIO SERIES**

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## **GENERAL SERVICING INFORMATION**

The following information applies to all tape units in this volume, and should be followed before any adjustments are made or trouble diagnosis is attempted. Any exceptions or additions will be found in the detailed servicing procedures for each tape unit.

### **POWER SOURCES**

Many tape units require full supply voltage for proper operation. Be sure the supply voltage is maintained at the rated value under load while making adjustments.

### **CLEANING**

All head faces should be cleaned with head cleaner or methyl alcohol to remove dust and accumulated oxide. (An applicator may be fashioned from absorbent cotton.) Do not use a screwdriver or any metallic object near the head faces.

*CAUTION: Avoid getting head cleaner on any plastic surface.*

Clean capstans, pressure rollers, and tape guides with alcohol using a soft lint-free cloth. Also use alcohol to remove oil and grease from drive belts and other driving surfaces.

### **LUBRICATING**

Clean all surfaces before lubricating. Apply a few drops of #20 machine oil to all bearings and rotating bushings. Apply a thin film of light, nonhardening grease to all cam surfaces and pawls, if they have been factory lubricated. Always wipe excess oil or grease from parts that have been lubricated.

*CAUTION: Oil and grease must be kept off all driving surfaces as well as any parts which may transfer oil or grease to them.*

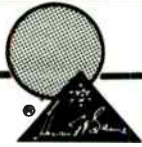
### **DEMAGNETIZING**

Heads require demagnetizing at regular intervals to maintain high-frequency response, dynamic range, and low distortion. (Follow instructions included with the demagnetizing unit.) After demagnetizing the heads, keep all screwdrivers and other metallic objects away from the head faces. Tape guides may also require occasional demagnetizing.

*IMPORTANT: Be sure to demagnetize the heads after making resistance measurements in the head circuits.*

### **CARTRIDGES**

Many problems associated with tape units result from defective cartridges. Always try a cartridge known to be good before attempting repairs.



# PHOTOFACT<sup>®</sup> with

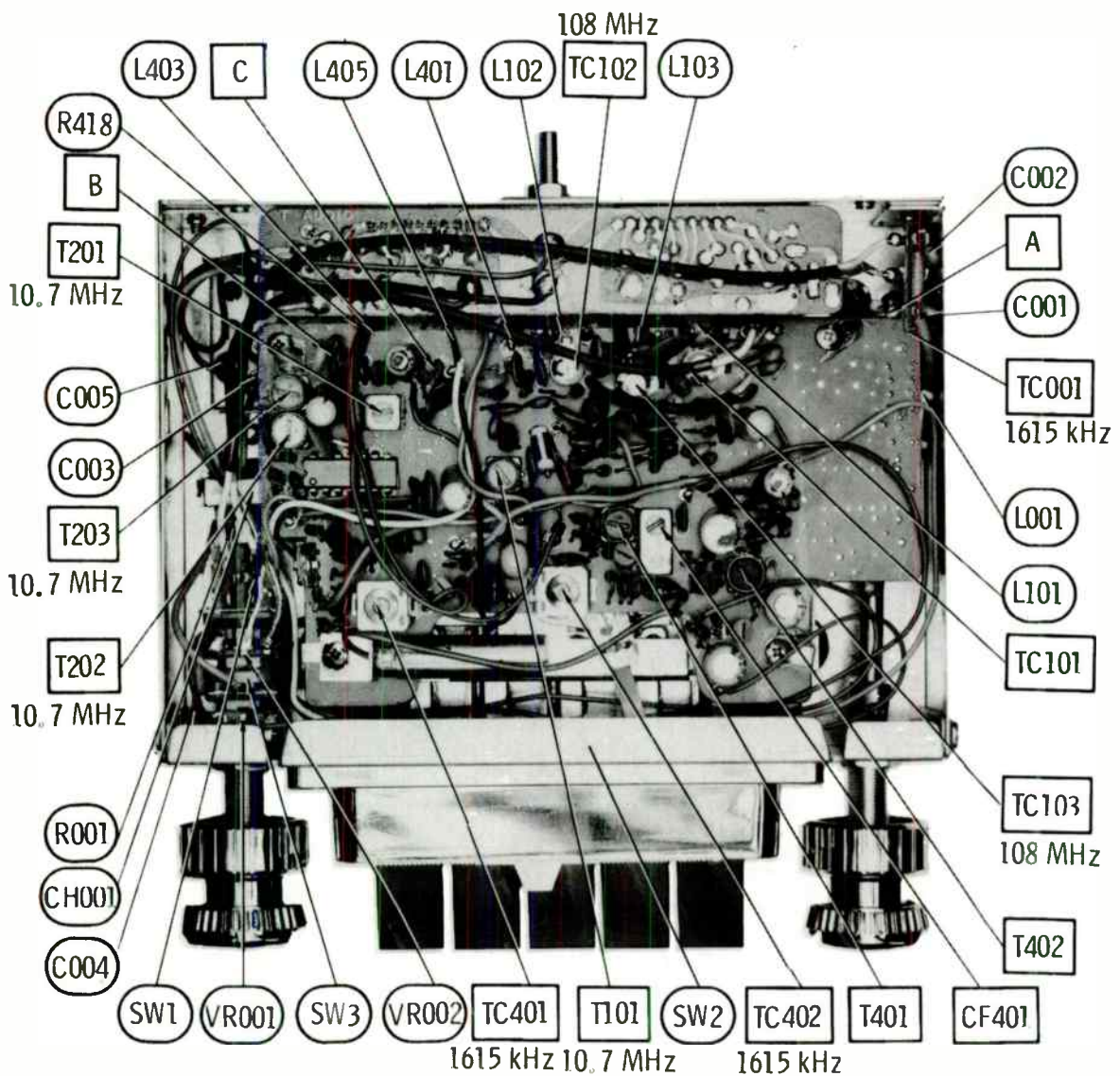
# CIRCUITRACE<sup>®</sup>

For Supplier Address See PHOTOFACT Index



MODEL SB-480

AFCCO MODEL SB-480



CHASSIS-TOP VIEW

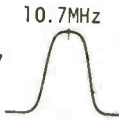
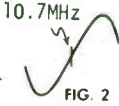
**HOWARD W. SAMS & CO., INC.** Indianapolis, Indiana 46206

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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

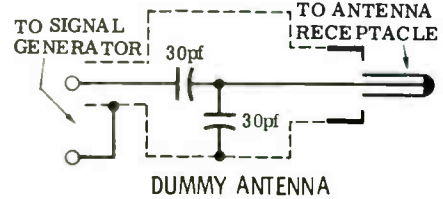
**PUSH-BUTTON ADJUSTMENT**

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.	455kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T402, CF401	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	TC402 TC401 TC001	"

Thru dummy antenna to antenna input.	600kHz	Tune to signal	Output meter across voice coil.	T401	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 TC001 for maximum output. Antenna adjustment TC001 is located on bottom 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.	T202, T201 T101	Adjust for maximum.
"	"	DC probe of VTVM to point C, common to ground.	T203	Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting.

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

High side of generator thru .001uF to point A, low side to ground.  
 Use only enough marker signal for indication. Use 60-hertz, frequency-modulated signal, 450kHz sweep. Use 60-hertz sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz 450kHz Sweep	Point of non-interference	Vert input of scope to point B, low side to ground.	T202, T201, T101	Disconnect stabilizing capacitor C210. Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Reconnect C210.
"	"	Vert input of scope to point C, low side to ground.	T203	Adjust T203 to place marker at center of S curve similar to Fig. 2. Readjust T202 for maximum amplitude and straightness of line.

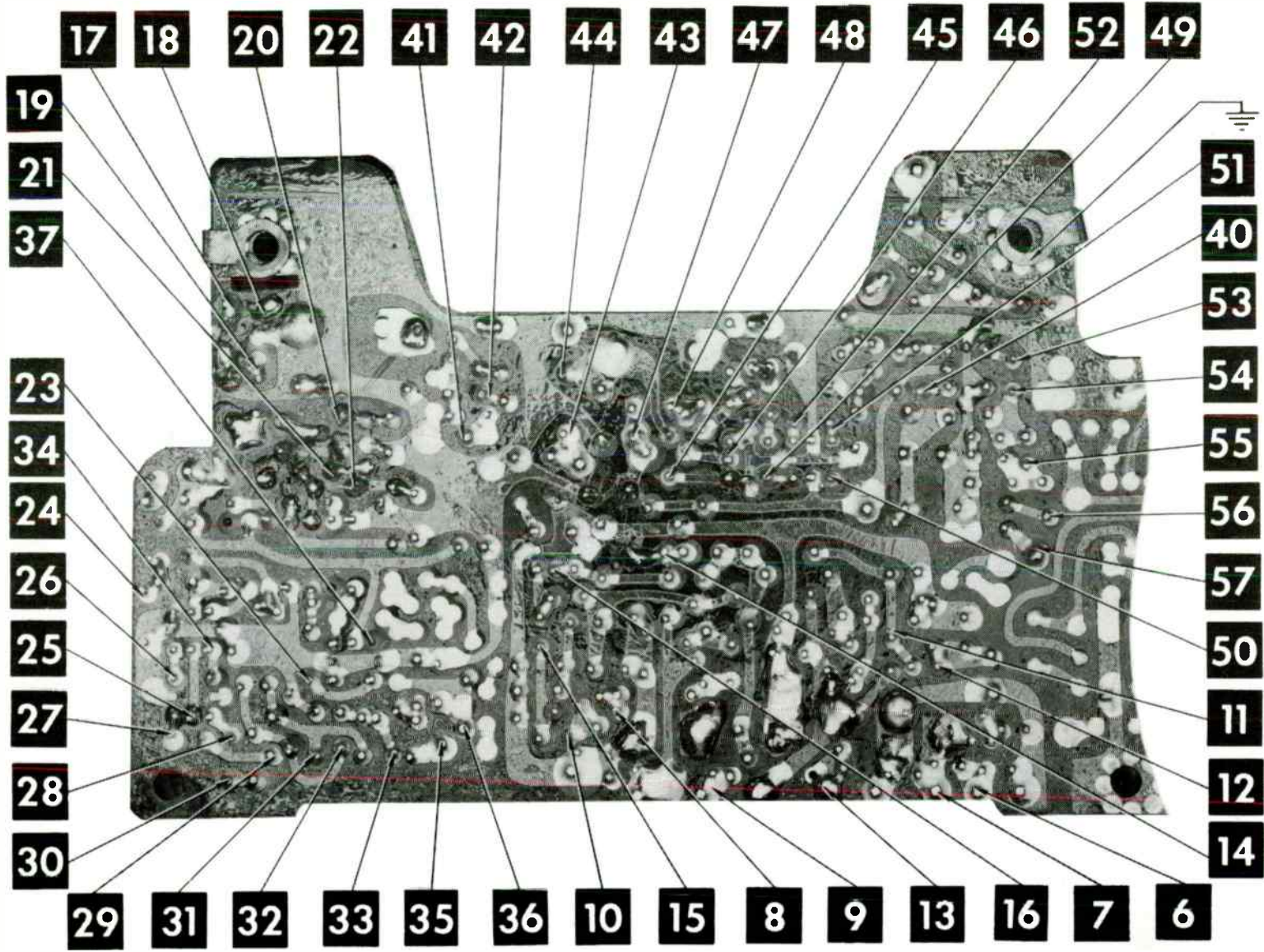
### FM RF ALIGNMENT—SELECTOR IN FM POSITION

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
108MHz Unmodulated	Tune to signal	DC probe of VTVM to point B, common to ground.	TC103, TC102, TC101.	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

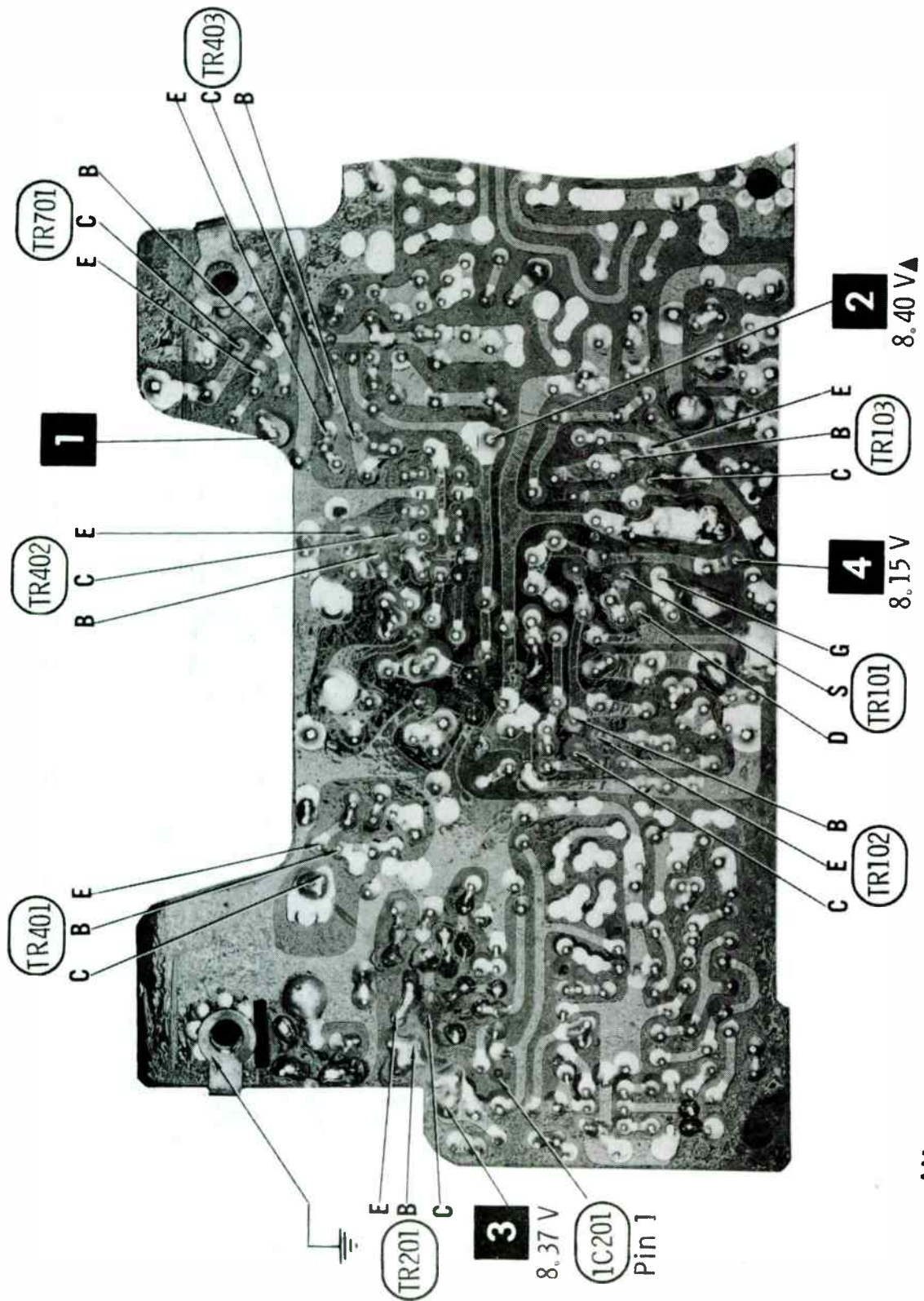


MAIN BOARD-BOTTOM VIEW



AFCO MODEL SB-480

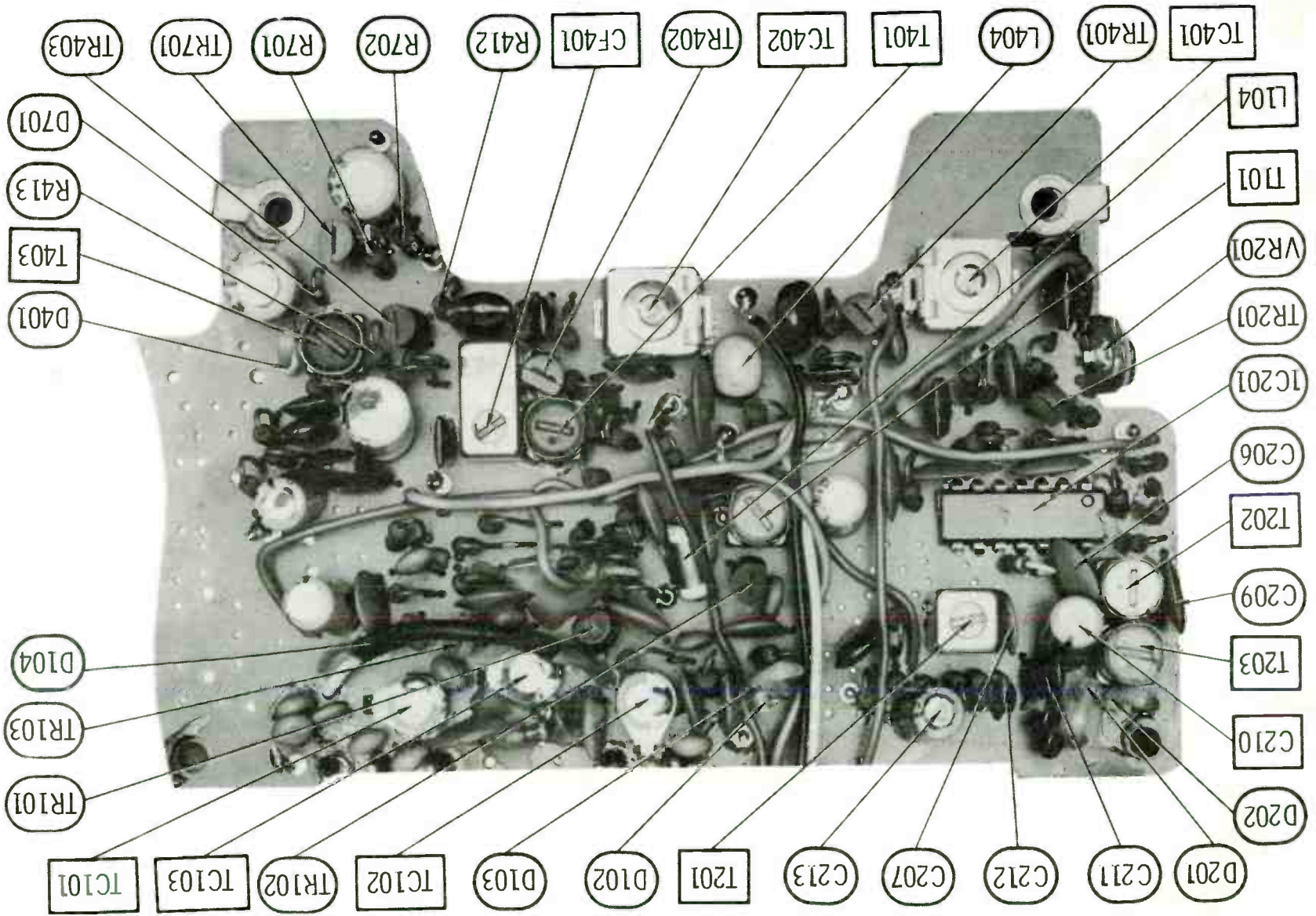
A Howard W. Sams CIRCUITRACE Photo



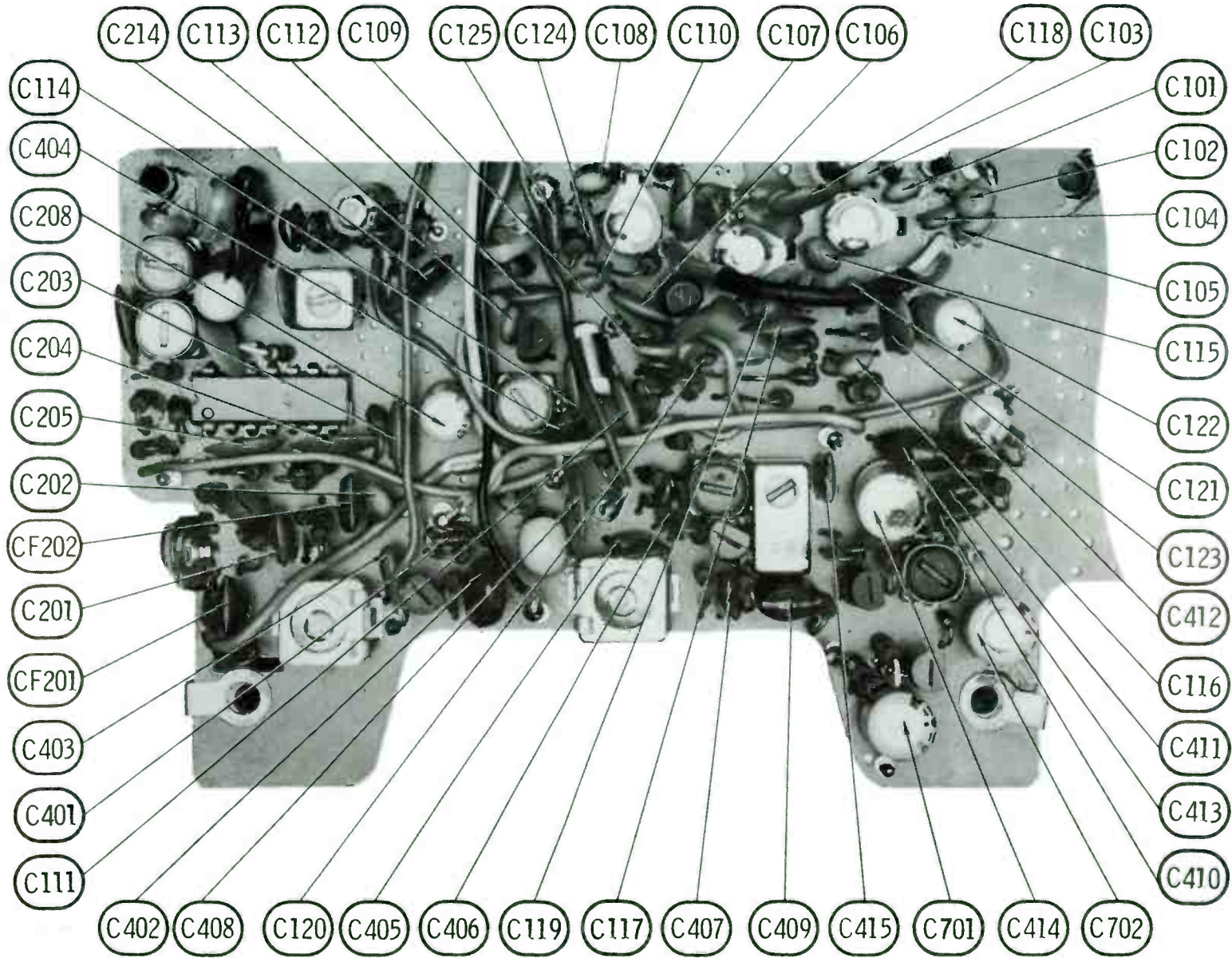
▲AM

MAIN BOARD-BOTTOM VIEW

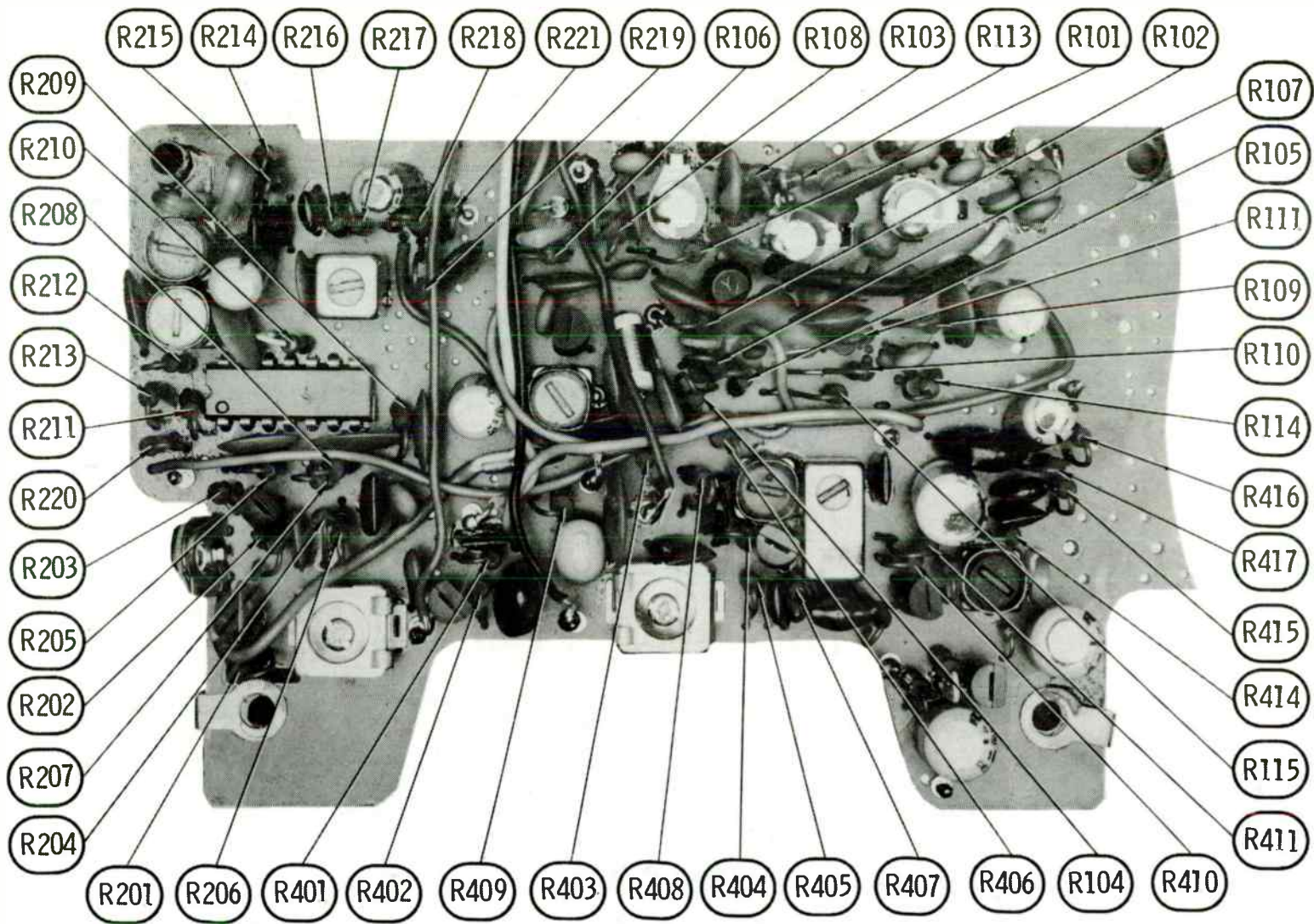




MAIN BOARD-TOP VIEW





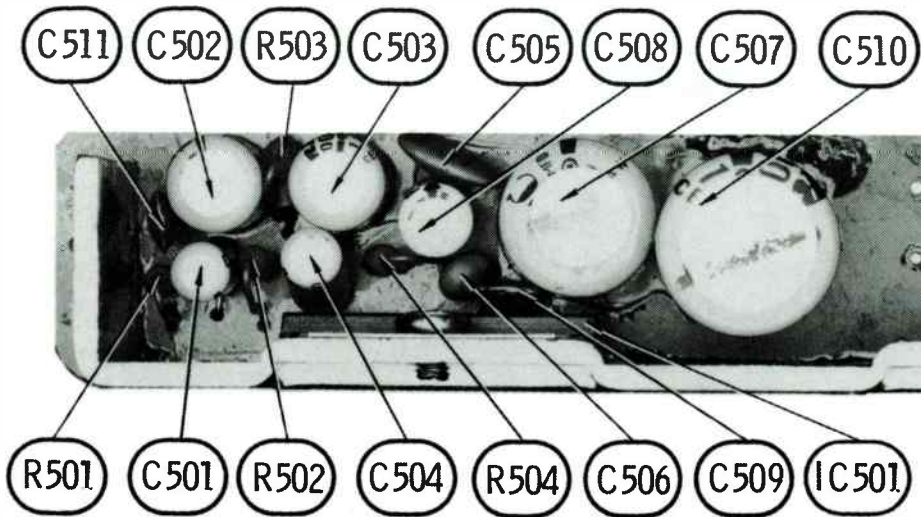




MAIN BOARD-TOP VIEW



60  61 62 63 (IC501)  1  
13.87 V



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

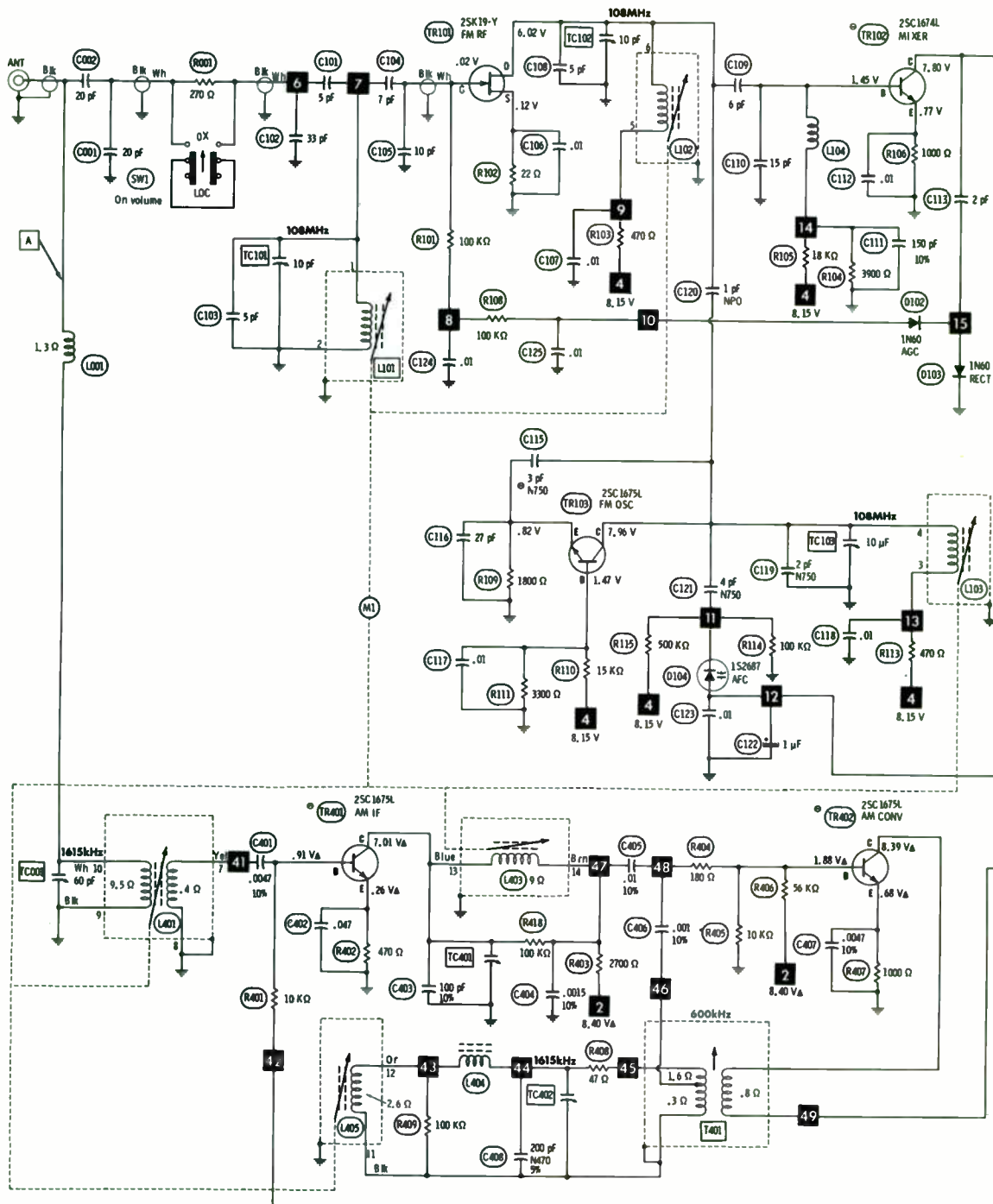
## SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D102	1N60	}	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D103	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D104	1S2687		GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	
D201	1N60P		1N60(7)	1N60 (7)	PTC206M(6)	HEPR9135(7)	RE 86(6)	SK3088(7)	RT-263(7)	ECG110(6)
D202	1N60P									
D401	1N60			1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D701	RD9.1EB			GEZD-9.1	ZB9.1B				RT-240	ECG139
IC201	LA1201			GEIC-43						ECG1003
IC501	TA7204P									ECG1153
TR101	2SK19Y			GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175
TR102	2SC1674L		GE-39	TR-95	PTC132	HEPS0010	RE 9	SK3018	RT-108A	ECG229
	2SC922L(1)		GE-17	TR-24	PTC115	HEPS0025	RE 9	SK3018	RT-107A	ECG107
TR103	2SC1675L		GE-20	TR-24	PTC132	HEPS0015	RE 10	SK3018	RT-107A	ECG108
	2SC839H(1)		GE-61	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR201	2SC1675L		GE-20	TR-24	PTC132	HEPS0015	RE 10	SK3018	RT-107A	ECG108
	2SC839H(1)		GE-61	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR401	2SC1675L		GE-20	TR-24	PTC132	HEPS0015	RE 10	SK3018	RT-107A	ECG108
	2SC839H(1)		GE-61	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR402	2SC1675L		GE-20	TR-24	PTC132	HEPS0015	RE 10	SK3018	RT-107A	ECG108
	2SC839H(1)		GE-61	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR403	2SC1675L		GE-20	TR-24	PTC132	HEPS0015	RE 10	SK3018	RT-107A	ECG108
	2SC839H(1)		GE-61	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR701	2SC945L,R		GE-210	(IR)2SC945	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199

- (1) Used in some versions.
- (6) Matched pair.
- (7) Two required - select matched pair.

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C122	1 16V		PC1-50	TT15X1	EV-1315
C208	10 16V		PC10-25	VTT10A25	EV-1222
C210	10 16V		PC10-25	VTT10A25	EV-1222
C213	10 16V		PC10-25	VTT10A25	EV-1222
C412	10 16V		PC10-25	VTT10A25	EV-1222
C414	33 16V		PC30-25	VTT33D25	EV-1325
C501	10 16V		PC10-25	VTT10A25	EV-1222
C502	100 10V		PC100-10	VTT100E10	EV-1130
C503	100 10V		PC100-10	VTT100E10	EV-1130
C504	10 16V		PC10-25	VTT10A25	EV-1222
C507	470 10V		PC500-16	VTT470J16	EV-1150
C508	47 10V		PC50-16	VTT47D16	EV-1226
C510	1000 16V		PC1000-16	VTT1000L16	EV-1260
C701	47 16V		PC50-16	VTT47D16	EV-1226
C702	47 16V		PC50-16	VTT47D16	EV-1226



- /— Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ⏏ Chassis
- ▽ Common tie point

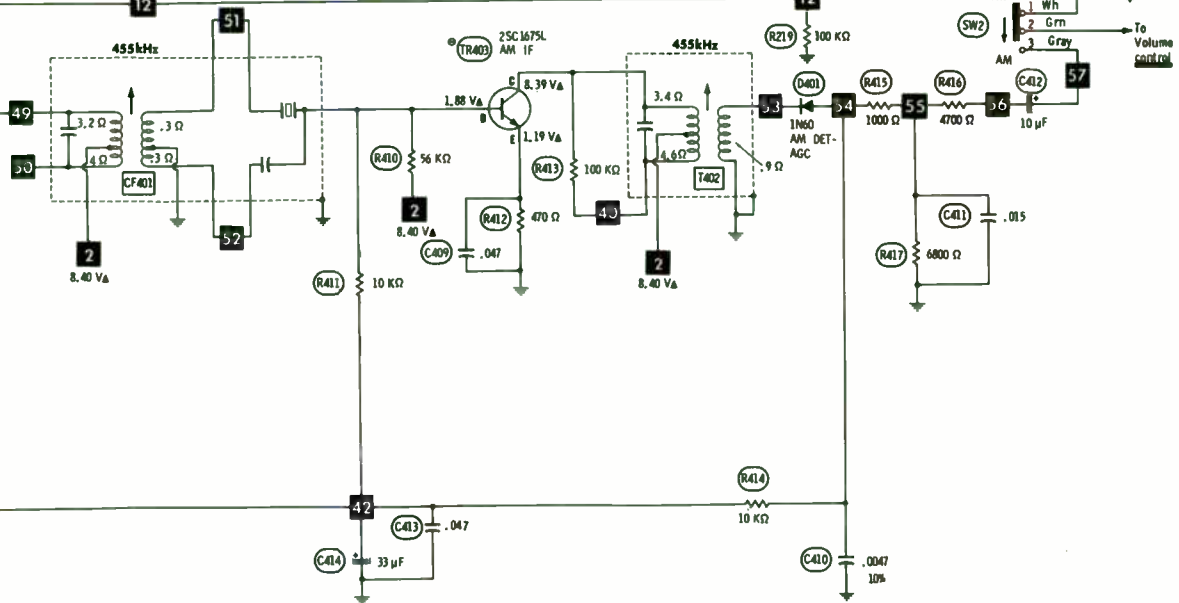
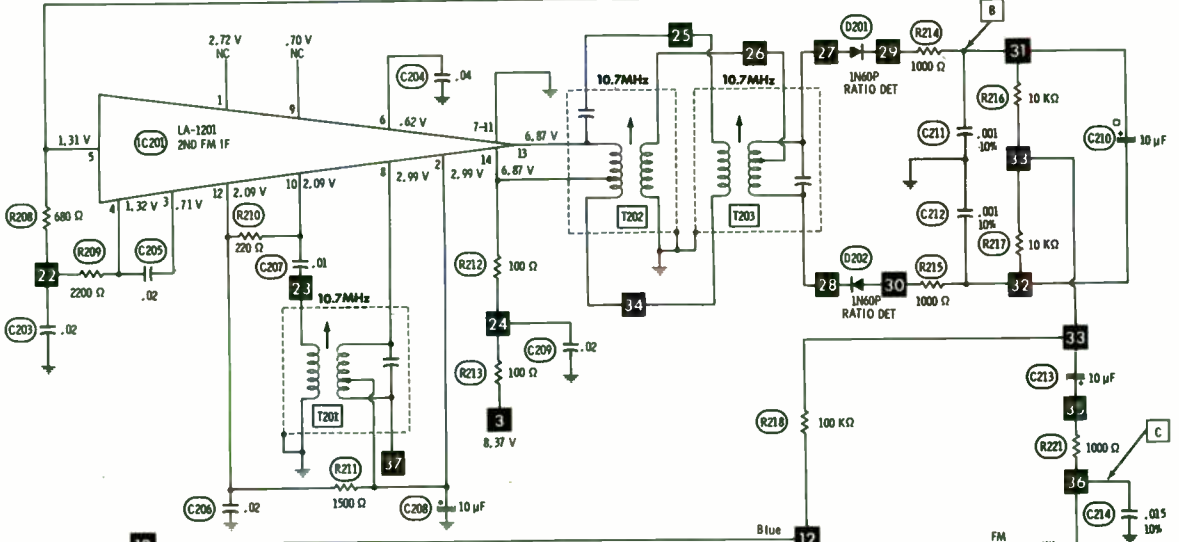
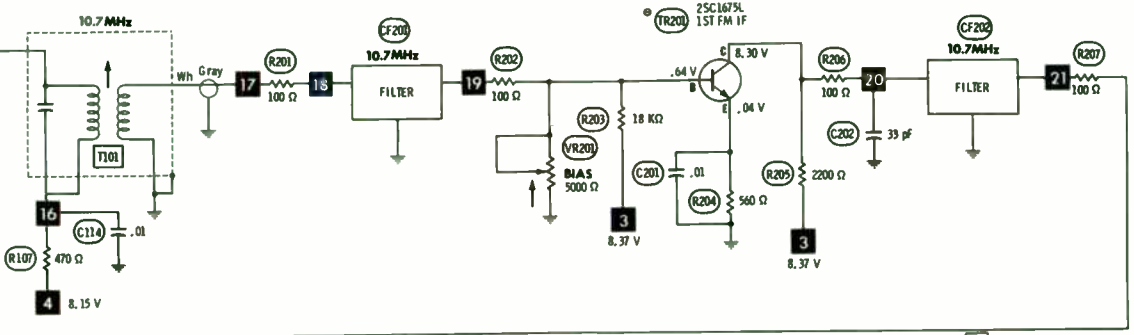
Measurements with switching as shown unless noted:

▲ AM

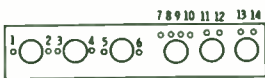
Supply voltage maintained as shown at input.  
 Voltages measured with digital meter, no signal.  
 Controls adjusted for normal operation.  
 Arrow of control indicates direction of advance.  
 Terminal identification may not be found on unit.  
 Resistors are 1/2W or less, 5% unless noted.  
 Value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

A PHOTOFAC STANDARD NOTATION SCHEMATIC  
 WITH CIRCUITRACE

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Terminal Guides



M1 Rear View



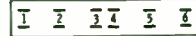
TR102, TR103,  
TR201, TR401  
thru TR403  
Bottom View



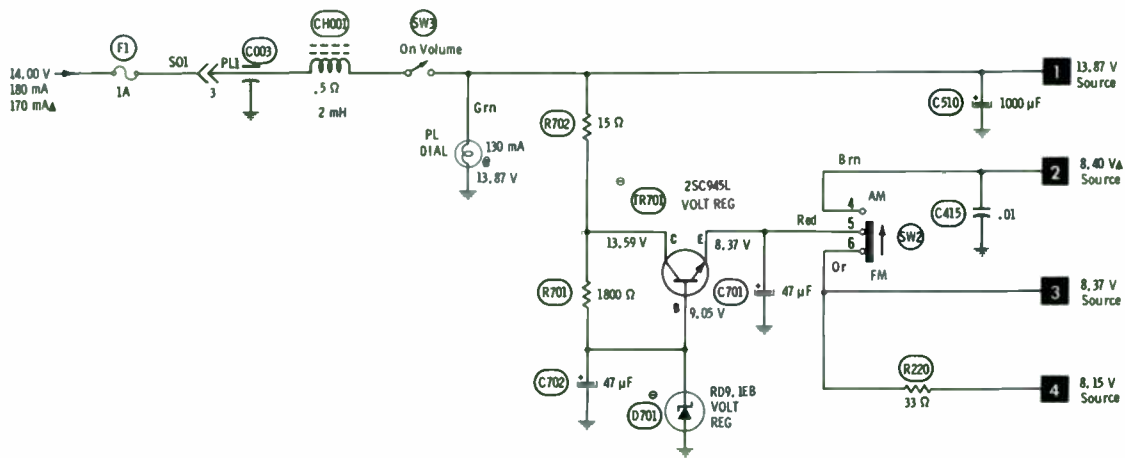
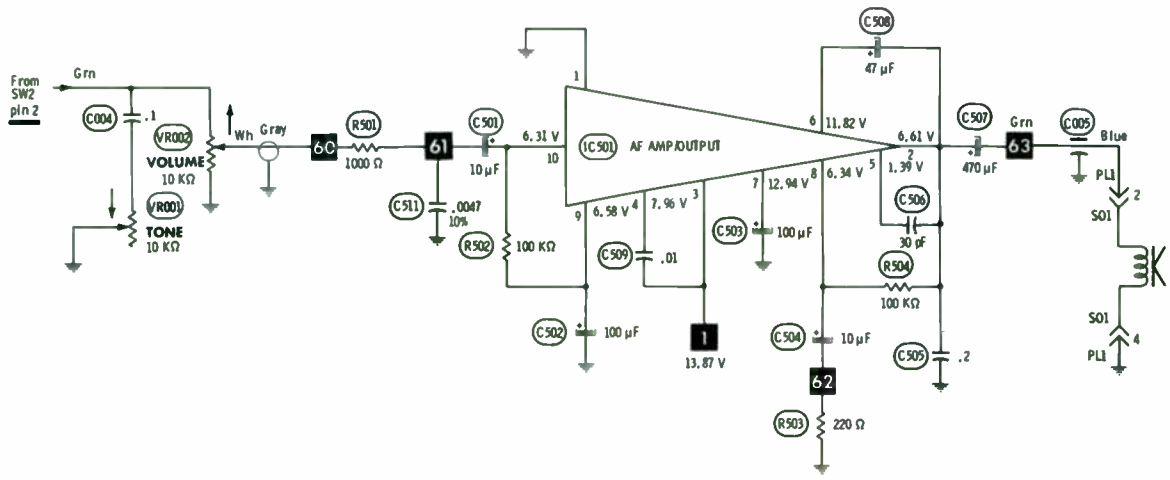
TR101  
Bottom View



IC201  
Top View

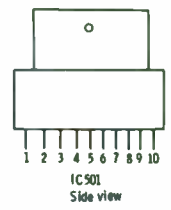


SW2  
Rear View



- ✗ Circuitry not used in some versions
  - Circuitry used in some versions
  - ⊕ See parts list
  - \* Nominal value
  - ⊥ Ground
  - ▭ Chassis
  - ▽ Common tie point
- Measurements with switching as shown unless noted:  
▲ AM

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.



A PHOTOFACIT STANDARD NOTATION SCHEMATIC  
 WITH CIRCUITRACE  
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# 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.
C001	20		DTZ-20	NP020	CN0420	10TCC-Q20
C002	20		DTZ-20	NP020	CN0420	10TCC-Q20
C003						
C004	.1		DC-104	MGP1	MAG5001	TG-P10
C005						10TCC-V50
C101	5					10TCC-Q33
C102	33		DTZ-33	NP033	CN0433	10TCC-V50
C103	5					10TCC-V68
C104	7		DTZ-6R8	NP06P8	CN0568	10TCC-Q10
C105	10		DTZ-10	NP010	CN0410	2SS-S10
C106	.01		DC-103	GP10000	MAG5011	2SS-S10
C107	.01		DC-103	GP10000	MAG5011	10TCC-V50
C108	5					10TCC-V68
C109	6		DTZ-6R8	NP06P8	CN0568	10TCC-Q15
C110	15		DTZ-15	NP015	CN0415	10TCC-T15
C111	150 10%		DTZ-150		CN0315	2SS-S10
C112	.01		DC-103	GP10000	MAG5011	10TCC-V22
C113	2		DTZ-2R2	NP02P2	CN0522	2SS-S10
C114	.01		DC-103	GP10000	MAG5011	
C115	3 N750					10TCC-Q27
C116	27				CN0427	10TS-S10
C117	.01 10%					10TS-S10
C118	.01 10%					
C119	2 N750					10TCC-V10
C120	1 NPO				CN0510	
C121	4 N750					
C123	.01		DC-103	GP10000	MAG5011	2SS-S10
C124	.01		DC-103	GP10000	MAG5011	2SS-S10
C125	.01		DC-103	GP10000	MAG5011	2SS-S10
C201	.01		DC-103	GP10000	MAG5011	2SS-S10
C202	33		DTZ-33	NP033	CN0433	10TCC-Q33
C203	.02		DC-203		MAG5012	2SS-S20
C204	.04				GP140	5GA-S40
C205	.02		DC-203		MAG5012	2SS-S20
C206	.02		DC-203		MAG5012	2SS-S20
C207	.01		DC-103	GP10000	MAG5011	2SS-S10
C209	.02		DC-203		MAG5012	2SS-S20
C211	.001 10%		DD-102		GP210	10TS-D10
C212	.001 10%		DD-102		GP210	10TS-D10
C214	.015 10%			DPMS4S15	EWFTA115	1PB-S15
C401	.0047 10%					10TS-D47
C402	.047		DC-503	MGP05	MAG5015	TGL-S50
C403	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C404	.0015 10%		DD-152		GP215	10TS-D15
C405	.01 10%					10TS-S10
C406	.001 10%		DD-102		GP210	10TS-D10
C407	.0047 10%					10TS-D47
C408	200 N470 5%				*	10TCT-T20
C409	.047		DC-503	MGP05	MAG5015	TGL-S50
C410	.0047 10%					10TS-D47
C411	.015		DC-203		MAG5012	2SS-S20
C413	.047		DC-503	MGP05	MAG5015	TGL-S50
C415	.01		DC-103	GP10000	MAG5011	2SS-S10
C505	.2 12V			DPMS2P2	PVC602	2PS-P20
C506	30					10TCC-Q30
C509	.01		DC-103	GP10000	MAG5011	2SS-S10
C511	.0047 10%					10TS-D47
TC001	60					
TC101	10					
TC102	10					
TC103	10					
TC401						
TC402						

AFCC MODEL SB-480

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR001	Tone/Power Switch	10K					
VR002	Volume/Loc-Dist Switch	10K					
VR201	Bias	5000					

## 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.	
CF401	IF (455kHz)				(1) Part of M1 (Tuner)
L001	AM Ant Choke (8.2uH)			4611	
L101	FM Ant	(1)			
L102	FM RF	(1)			
L103	FM Osc	(1)			
L104	10.7MHz Trap (1.5uH)			74F156AP	
L401	AM Ant	(1)			
L403	AM RF	(1)			
L404	Image Trap (4.7uH)			70F476AI	
L405	AM Osc Tuning	(1)			
T101	IF (10.7MHz)				
T201	IF (10.7MHz)				
T202	Ratio Det (Pri)				
T203	Ratio Det (Sec)				
T401	AM Oscillator				
T402	IF (455kHz)				

### FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
CH001	180mA	.5	2mH				

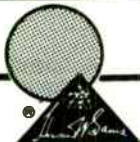
### FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	1 A			AGC1	HDJ	312001	150145	FG1-2

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF201	Filter		10.7MHz, Ceramic
CF202	Filter		10.7MHz, Ceramic
M1	Tuning Coil Assembly		AM/FM (APE-305/P-5620, Number on Unit)
SW1	Switch		Local/DX (Part of Volume/Tone Control)
SW2	Switch		AM/FM
SW3	Switch		Power (Part of Volume/Tone Control)

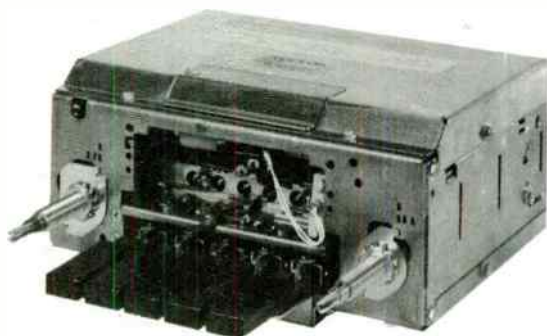




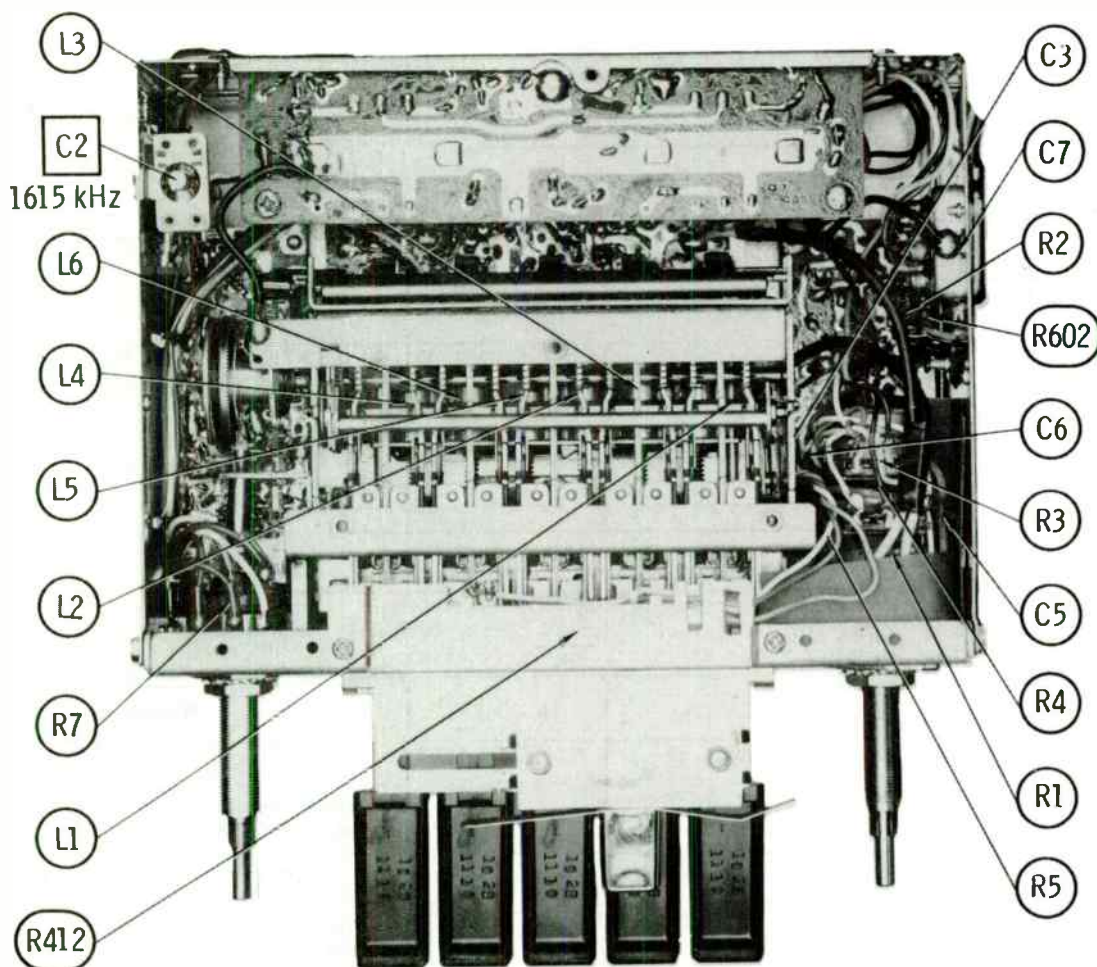
# PHOTOFACT<sup>®</sup> with

# CIRCUITRACE<sup>®</sup>

For Supplier Address See PHOTOFACT Index



MODELS 136-1016 (Basic Unit)  
 FGA-75-FFX  
 FMK-75-FFX  
 FO-75-FFX  
 FTR-75-FFX  
 (75 Ford, Mercury)  
 LCO-75-FFX  
 (75 Ford, Lincoln)



AUDIOVOX 1975 SERIES

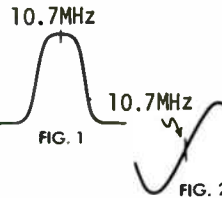
CHASSIS-BOTTOM VIEW

**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

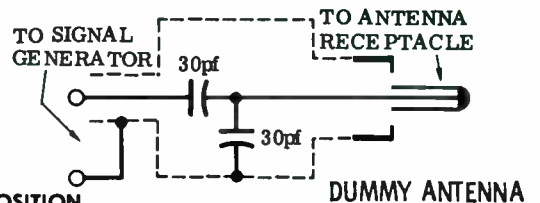


### PUSH-BUTTON ADJUSTMENT

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 low side to ground.	262kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T301, T302	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C2,C304, C310	"
Thru dummy antenna to antenna input.	600kHz	Tune to signal	Output meter across voice coil.	L301	Adjust for maximum. Repeat alignment until no further improvement is noted.

With radio installed in car and antenna extended 33", tune in a weak station near 1400kHz and adjust C2 for maximum output. Antenna adjustment C2 is located on bottom right rear corner.



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

High side of generator thru .001uF to point B, 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 C, common to ground.	T101,L102,T202	Adjust T101 and T202 for maximum. Adjust L102 for MINIMUM.
"	"	DC probe of VTVM to point D, common to ground.	T203	Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting.

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

High side of generator thru .001uF to point B, low side to ground.  
Use only enough marker signal for indication. Use 60-hertz, frequency-modulated signal, 450kHz sweep.  
Use 60-hertz sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz 450kHz Sweep	Point of non-interference	Vert input of scope to point C, low side to ground.	T101,L102,T202	Disconnect stabilizing capacitor C220. Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Reconnect C220.
"	"	Vert input of scope to point D, low side to ground.	T203	Adjust T203 to place marker at center of S curve similar to Fig. 2. Readjust T202 for maximum amplitude and straightness of line.

### FM RF ALIGNMENT—SELECTOR IN FM POSITION

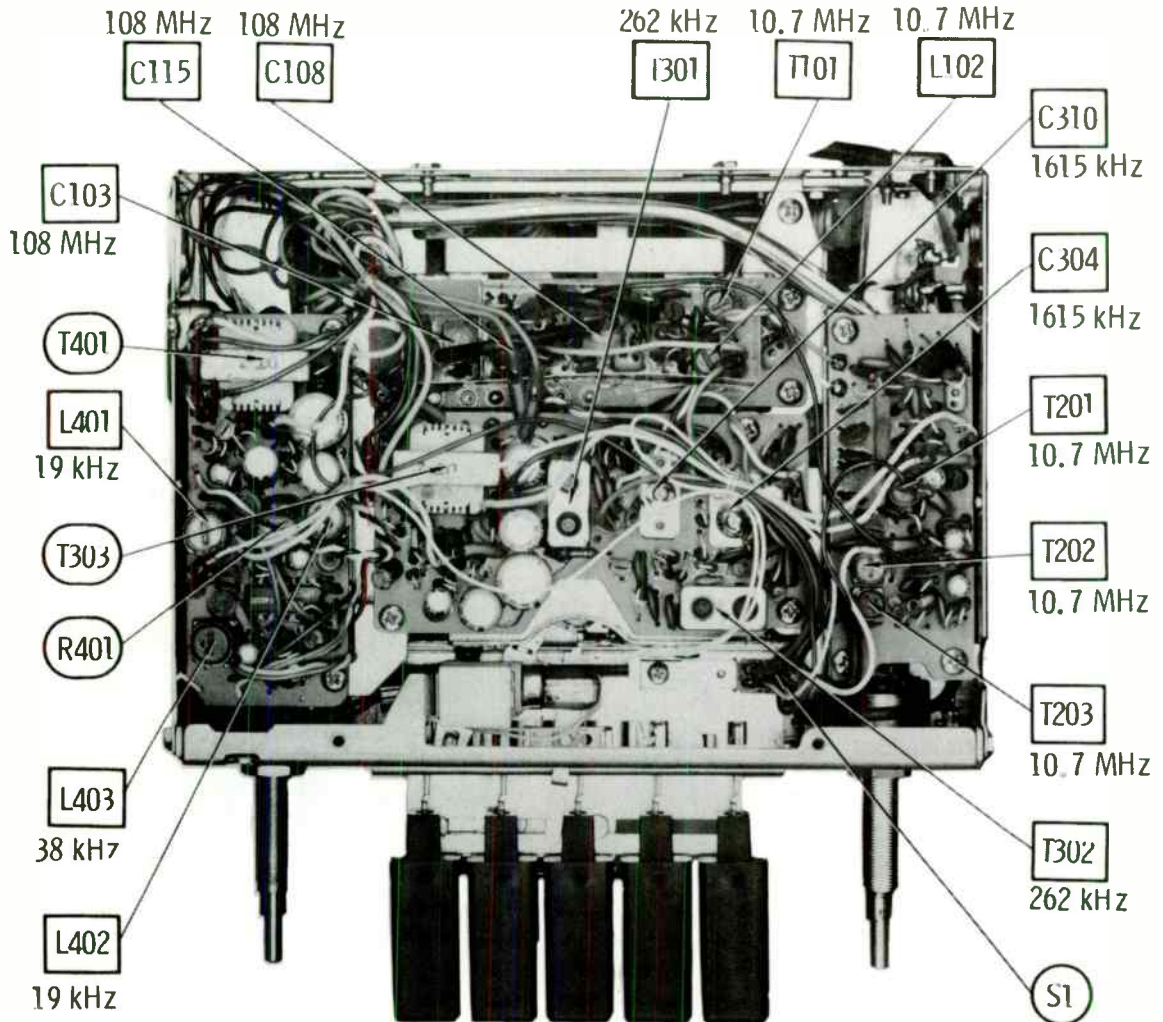
Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Unmodulated	Tune to signal	DC probe of VTVM to point B, common to ground.	C103,C108,C115	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

## ALIGNMENT INSTRUCTIONS (Continued)

### FM STEREO MULTIPLEX ALIGNMENT USING FM STEREO SIGNAL GENERATOR ( $\pm .0001\%$ ACCURACY)

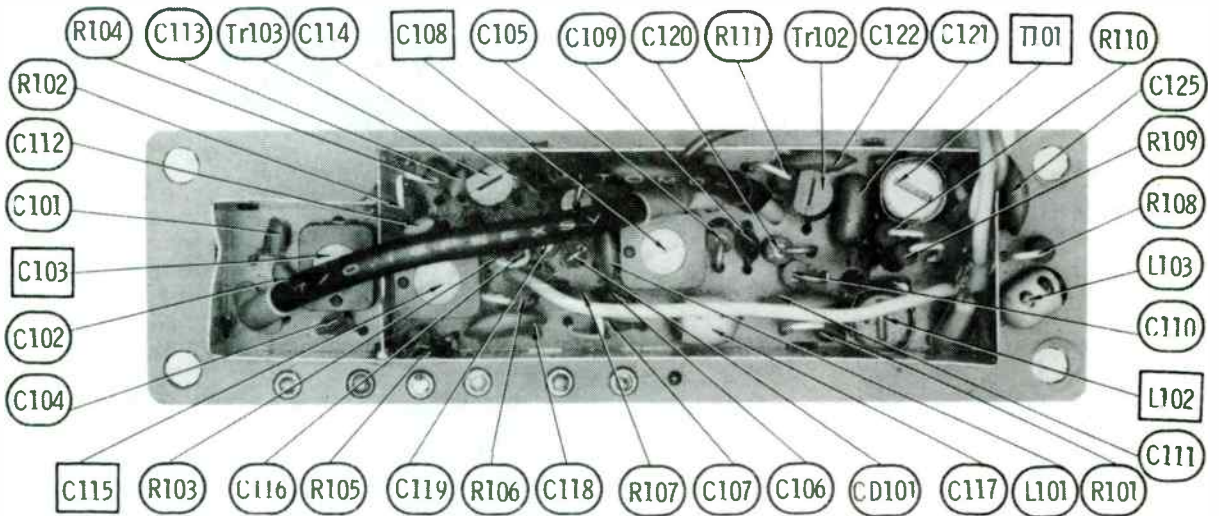
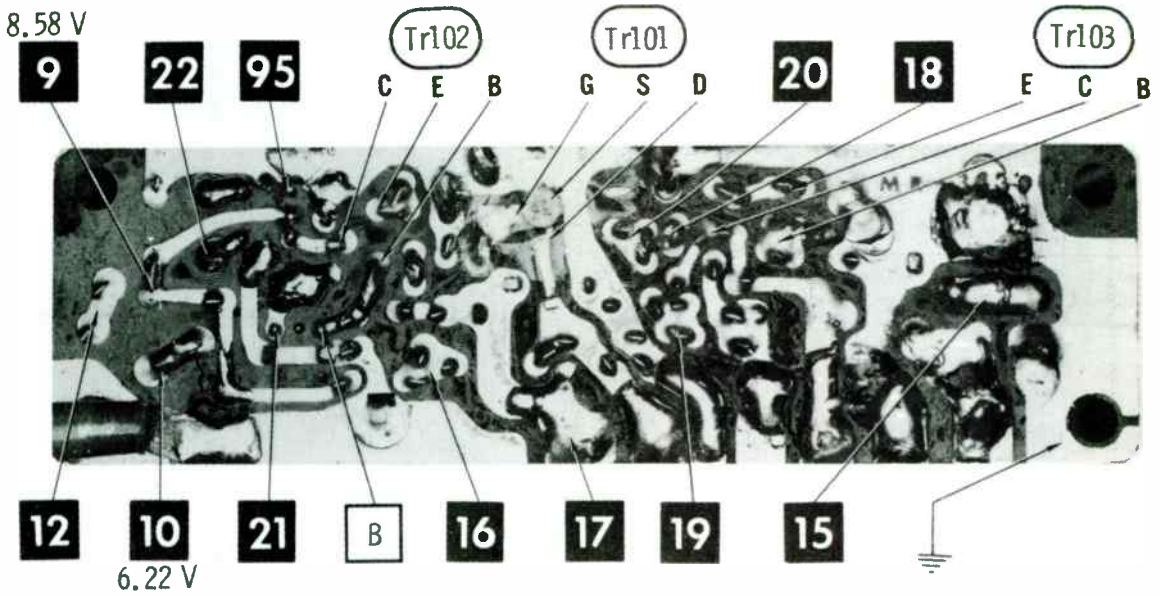
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
High side of generator thru 47K to point D, low side to ground.			
19kHz	Vert input of scope thru 47K to point E, low side to ground.	L401,L402	Adjust for maximum.
19kHz	Vert input of scope thru 47K to point F, low side to ground.	L403	Adjust for maximum 38kHz response.
Modulated Left Channel	Vert input of scope to point G, low side to ground.	L403,R401	Adjust for MINIMUM. This step should require only slight adjustment.
Modulated Right Channel	Vert input of scope to point H, low side to ground.		Check for MINIMUM. If necessary, make compromise adjustment of L403, R401.



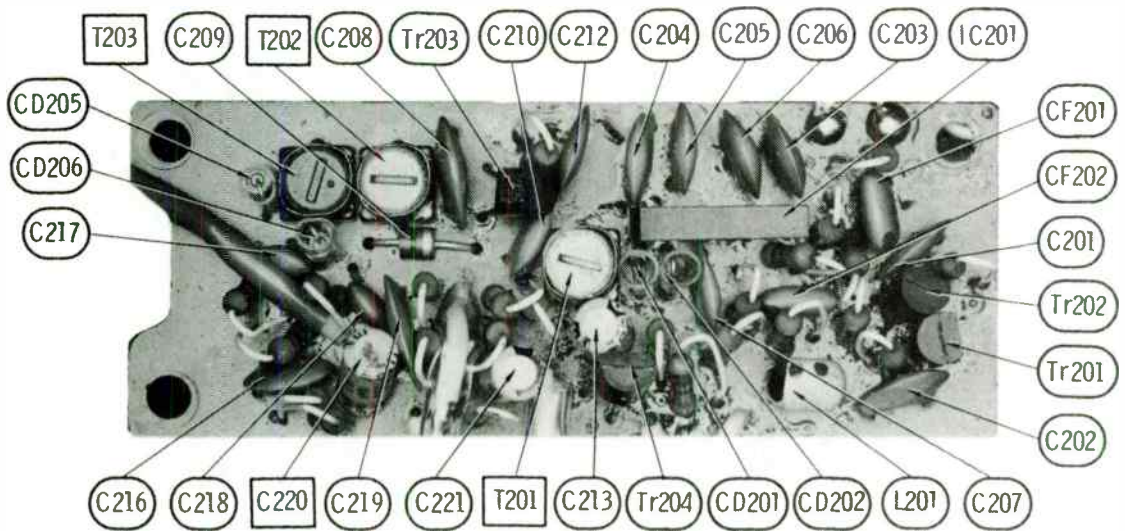
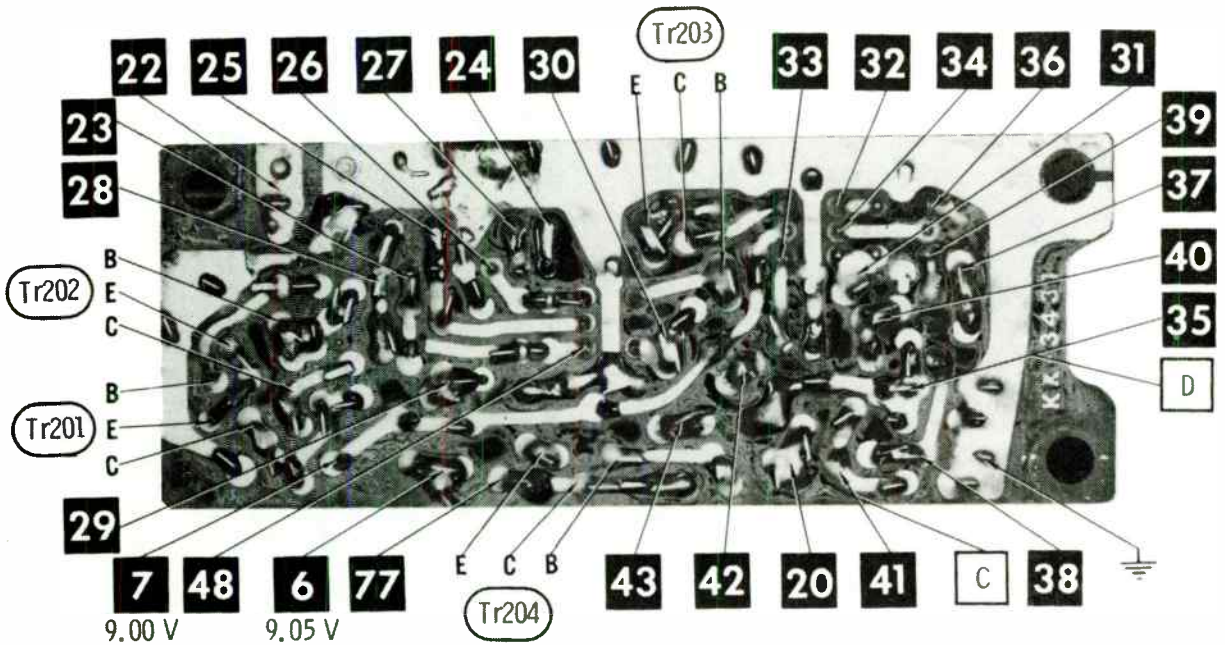
AUDIOVOX 1975 SERIES

CHASSIS-TOP VIEW





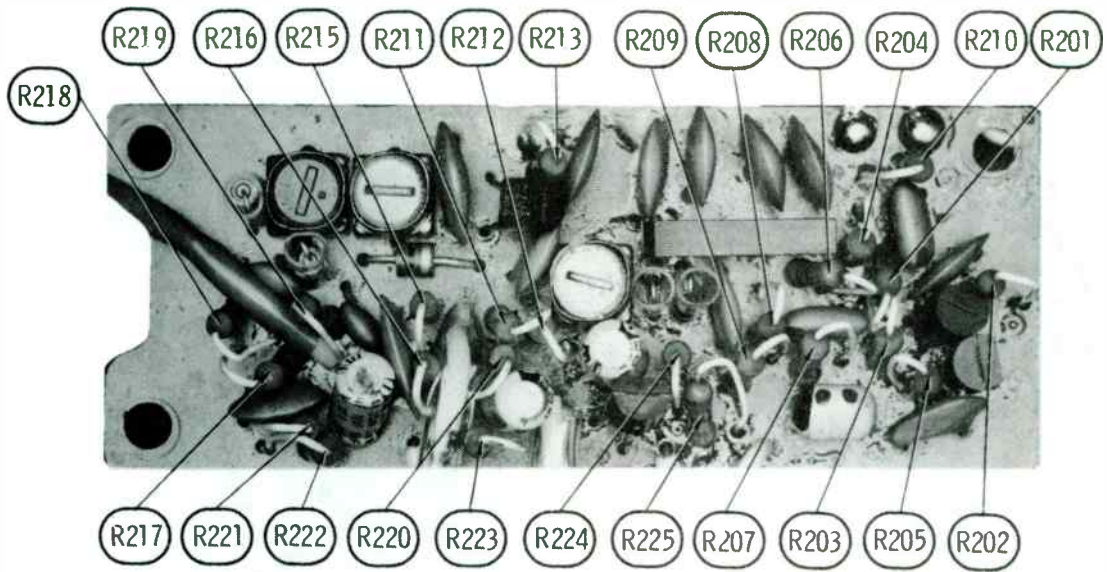
**FM TUNER BOARD**



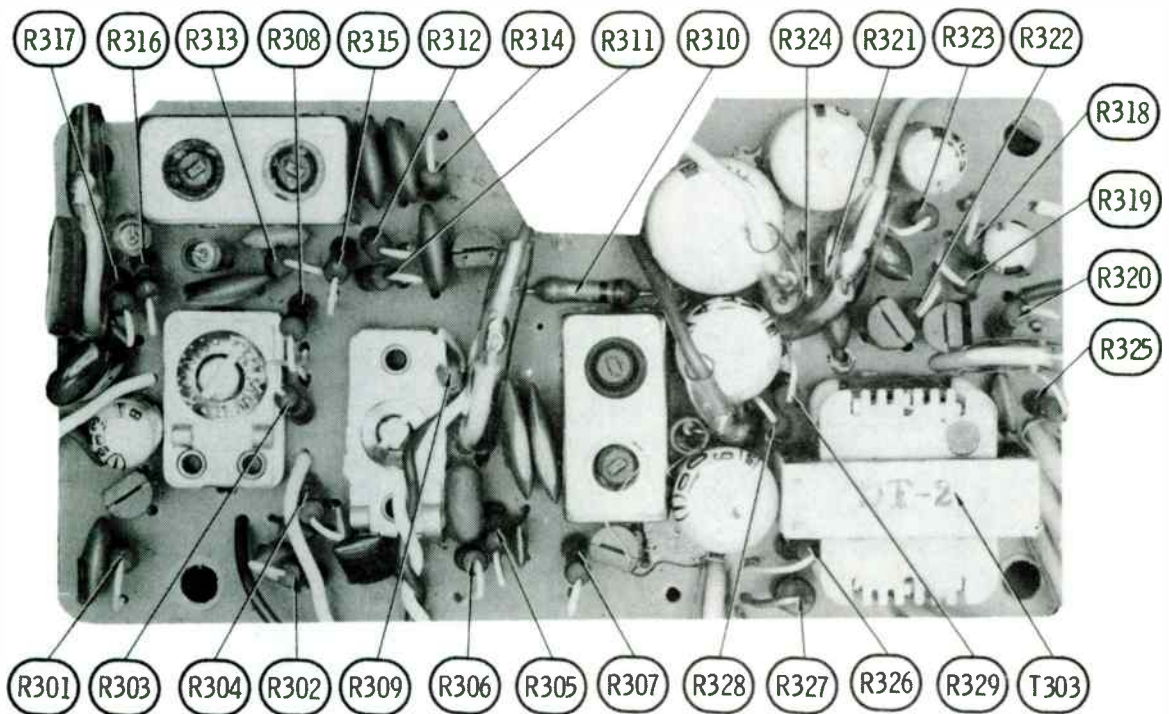
AUDIOVOX 1975 SERIES

FM IF BOARD



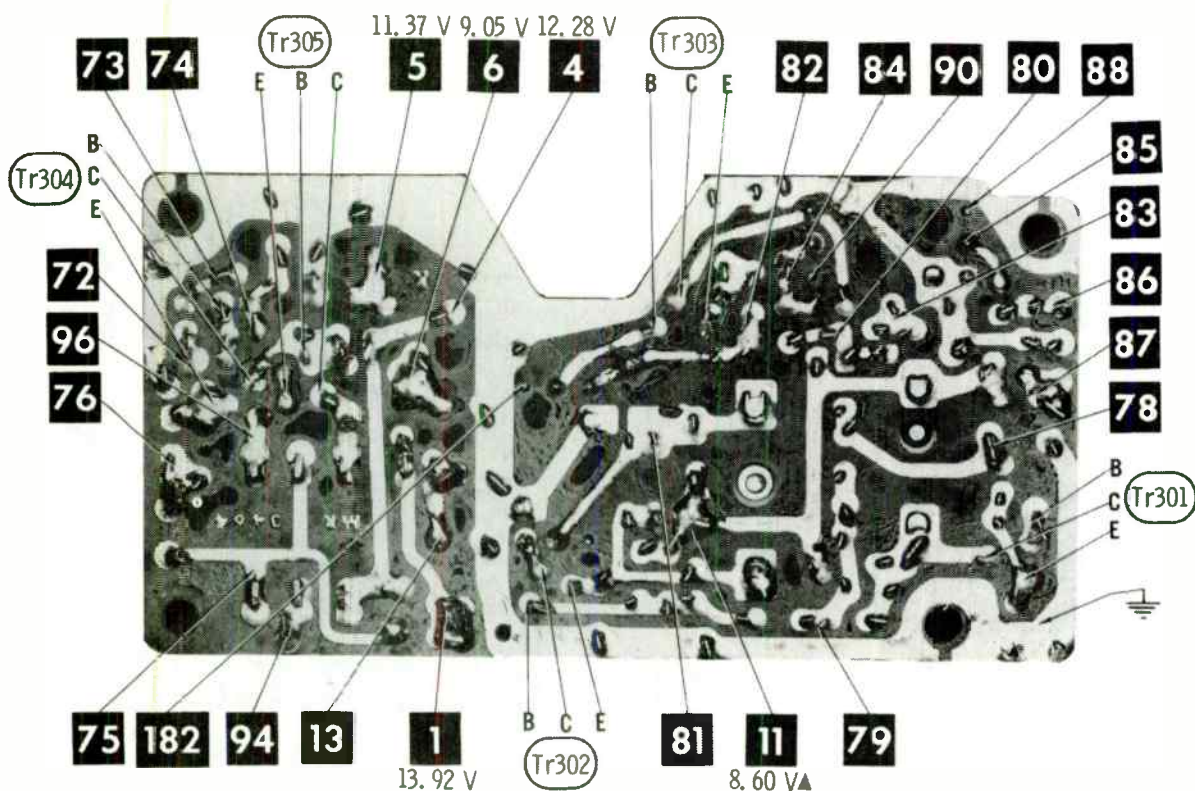


FM IF BOARD-TOP VIEW

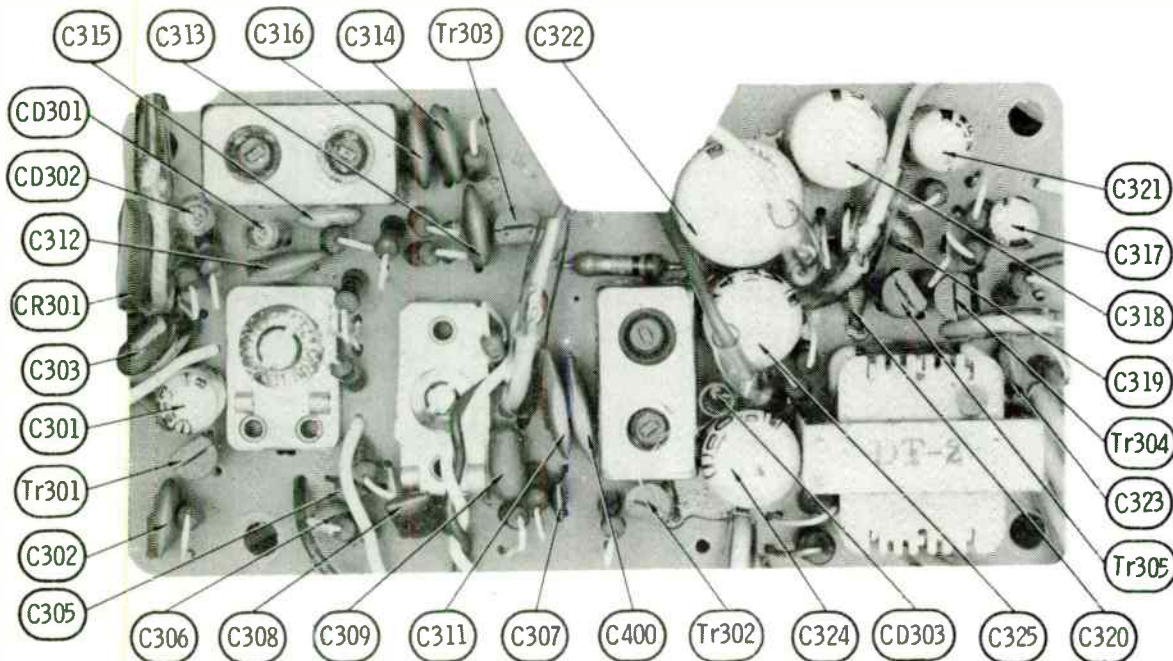


AM/RIGHT AUDIO BOARD-TOP VIEW



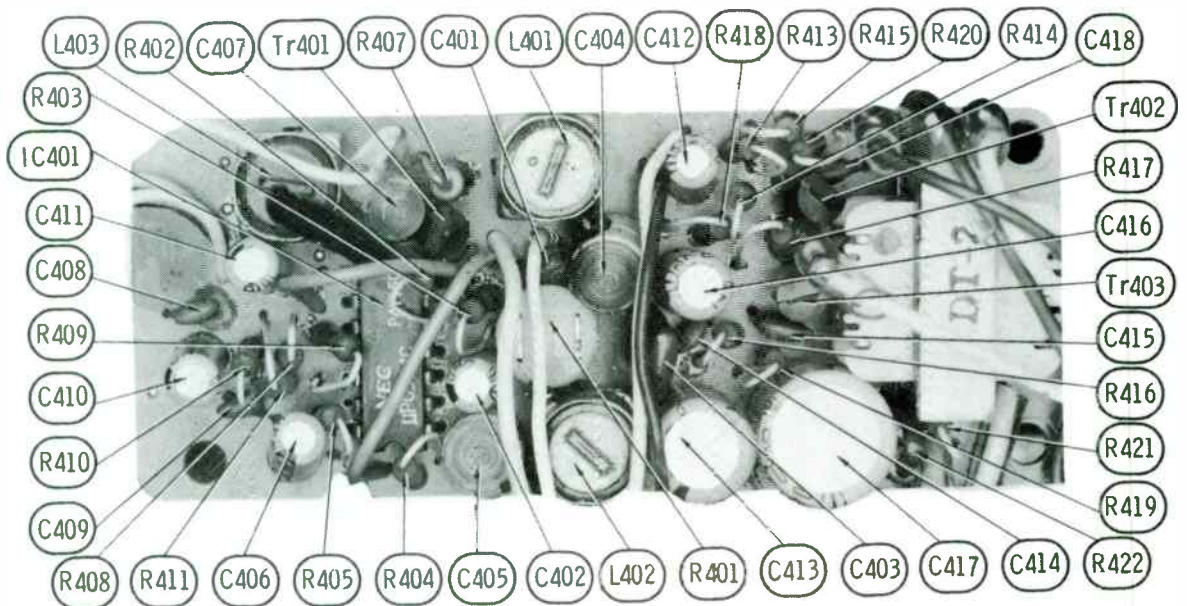
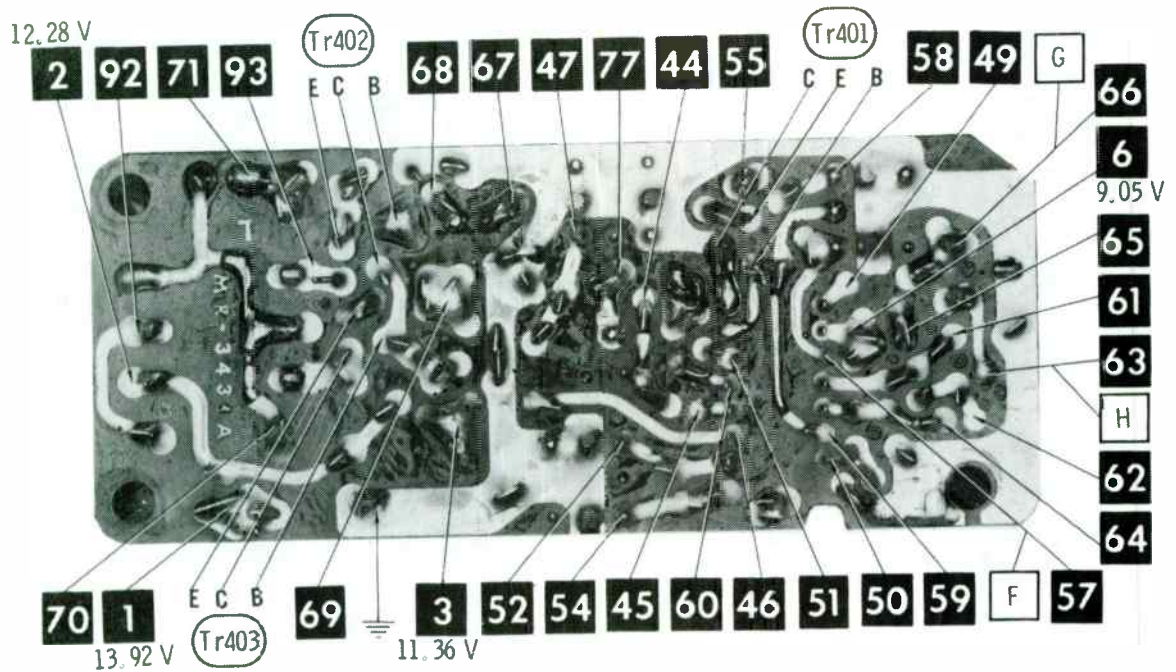


▲Measured in AM



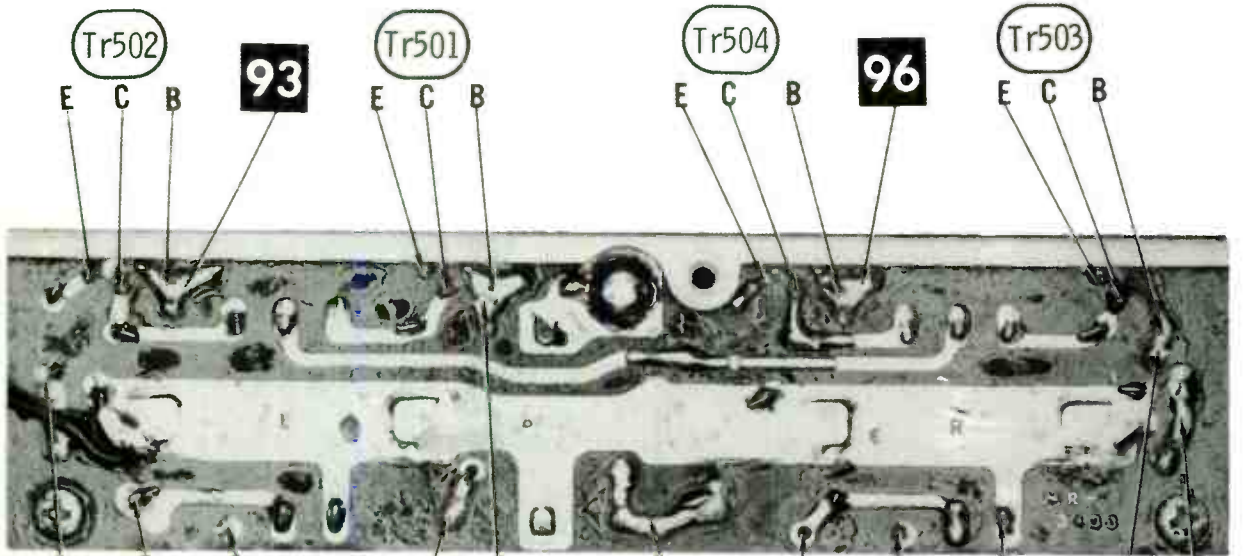
**AM/RIGHT AUDIO BOARD**

AUDIOVOX 1975 SERIES

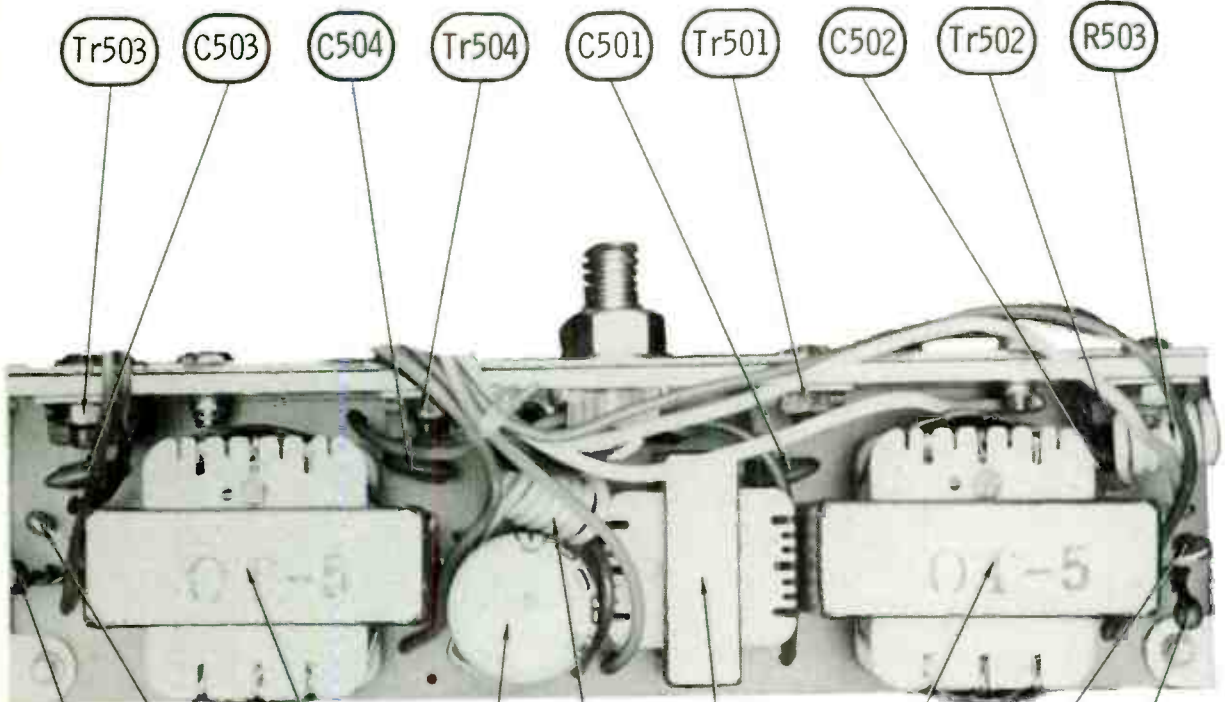


MPX/LEFT AUDIO BOARD





70 71 90 97 92 1 76 91 94 75  
13.92 V



CD502 R502 T502 C505 R504 L501 T501 R501 CD501

OUTPUT BOARD

AUDIOVOX 1975 SERIES

# 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<sup>®</sup> 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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
CD101	ITT-410		GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	
CD201			GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
CD202			GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
CD205			1N60	1N60 (7)	PTC206M (6)	HEPR9135 (7)	RE 86 (6)	SK3088 (7)	RT-263 (7)	ECG110 (6)
CD206			1N60							
CD301			1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD302			1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD303										
CD501										
CD502										
IC201	TA7061AP								ECG1100	
IC401	UPC554C			PTC709					ECG1142	
Tr101	2SK37		GE-FET-2	FE-100	PTC152	HEPF0021	RE 45	SK3116	RT-175	ECG132
Tr102	2SC922		GE-62	TR-21	PTC136	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Tr103	2SC922		GE-62	TR-21	PTC136	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Tr201	2SC839		GE-61	(IR)2SC644	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Tr202	2SC839		GE-61	(IR)2SC644	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Tr203	2SC839		GE-61	(IR)2SC644	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Tr204	2SC945		GE-210	(IR)2SC945	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199
Tr301	2SC941R		GE-210	(IR)2SC945	PTC115	HEPS0016	RE 192	SK3122	RT-102	ECG199
Tr302	2SC839		GE-61	(IR)2SC644	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Tr303	2SC839		GE-61	(IR)2SC644	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Tr304	2SC945		GE-210	(IR)2SC945	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199
Tr305	2SD227		GE-81	TR-86	PTC123	HEPS0011	RE 13	SK3124	RT-172	ECG123A
Tr401	2SA642		GE-82	TR-54	PTC103	HEPS0019	RE 26	SK3118	RT-126A	ECG159
Tr402	2SC945		GE-210	(IR)2SC945	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199
Tr403	2SD227		GE-81	TR-86	PTC123	HEPS0011	RE 13	SK3124	RT-172	ECG123A
Tr501	2SC1096		GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186A
Tr502	2SC1096		GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186A
Tr503	2SC1096		GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186A
Tr504	2SC1096		GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186A

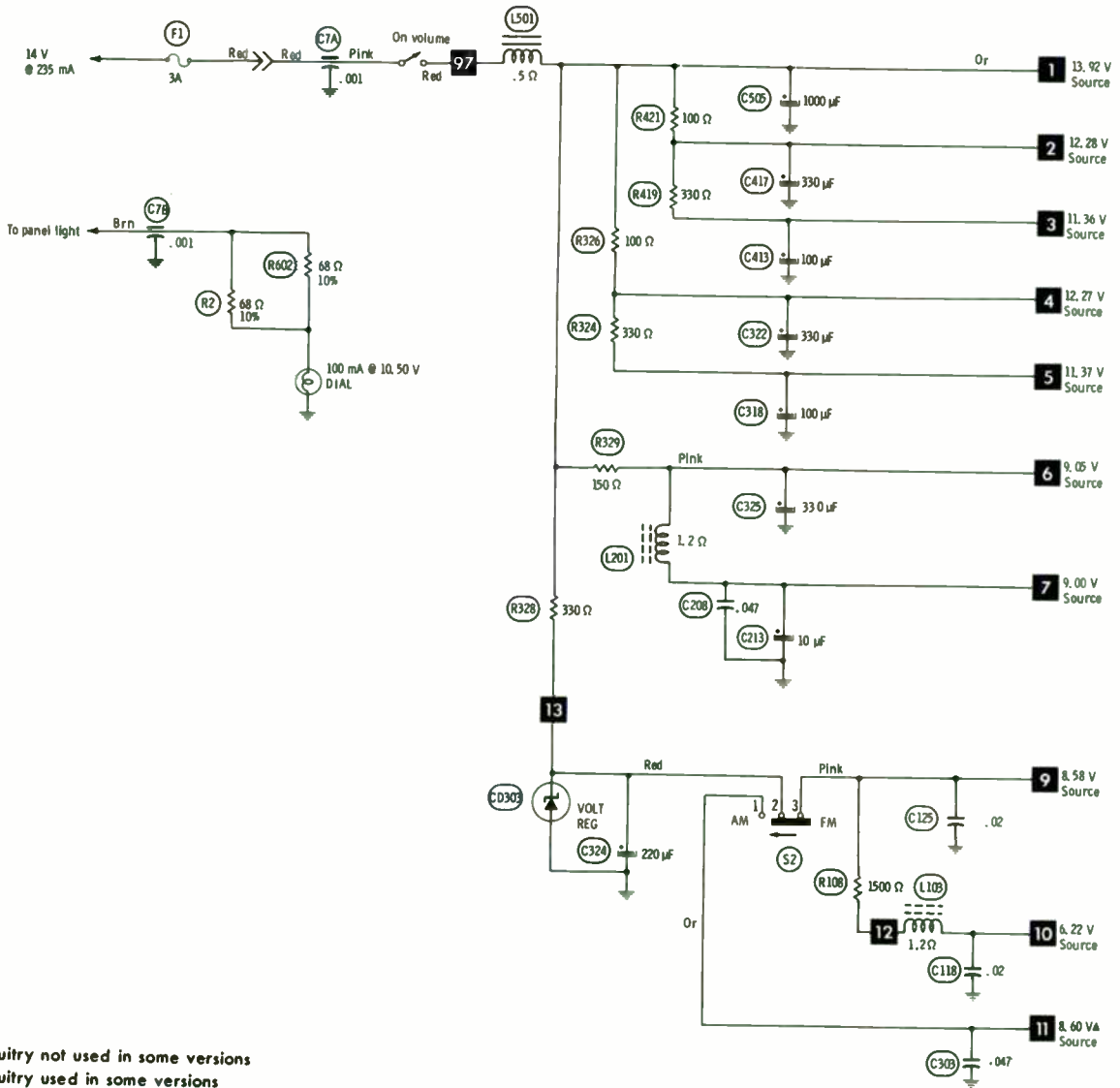
(6) Matched pair.

(7) Two required - select matched pair.

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C213	10 16V		PC10-25	VTT10A25	EV-1222
C220	10 16V		PC10-25	VTT10A25	EV-1222
C221	3.3 35V		PC5-50	VTT3R3A50	EV-1618
C301	33 6V		PC30-25	VTT33A10	EV-1125
C317	3.3 35V		PC5-50	VTT3R3A50	EV-1618
C318	100 16V		PC100-16	VTT100F16	EV-1230
C321	47 10V		PC50-16	VTT47D16	EV-1226
C322	330 16V		WBR300-35	VTT330H16	EV-1245
C324	220 16V		PC250-25	VTT220G16	EV-1240
C325	330 10V		WBR300-35	VTT330G10	EV-1145
C402	3.3 35V		PC5-50	VTT3R3A50	EV-1618
C406	3.3 35V		PC5-50	VTT3R3A50	EV-1618
C410	3.3 35V		PC5-50	VTT3R3A50	EV-1618
C411	3.3 35V		PC5-50	VTT3R3A50	EV-1618
C412	3.3 35V		PC5-50	VTT3R3A50	EV-1618
C413	100 16V		PC100-16	VTT100F16	EV-1230
C416	47 10V		PC50-16	VTT47D16	EV-1226
C417	330 16V		WBR300-35	VTT330H16	EV-1245
C505	1000 16V		PC1000-16	VTT1000L16	EV-1260

CONTINUED ON PAGE 34.



—\*— Circuitry not used in some versions

- - - Circuitry used in some versions

⊙ See ports list

⊛ Nominal value

⊕ Ground

⌞ Chassis

▽ Common tie point

Measurements with switching as shown unless noted:

▲ AM

Supply voltage maintained as shown or input.

Voltages measured with digital meter, no signal.

Controls adjusted for normal operation.

Arrow of control indicates direction of advance.

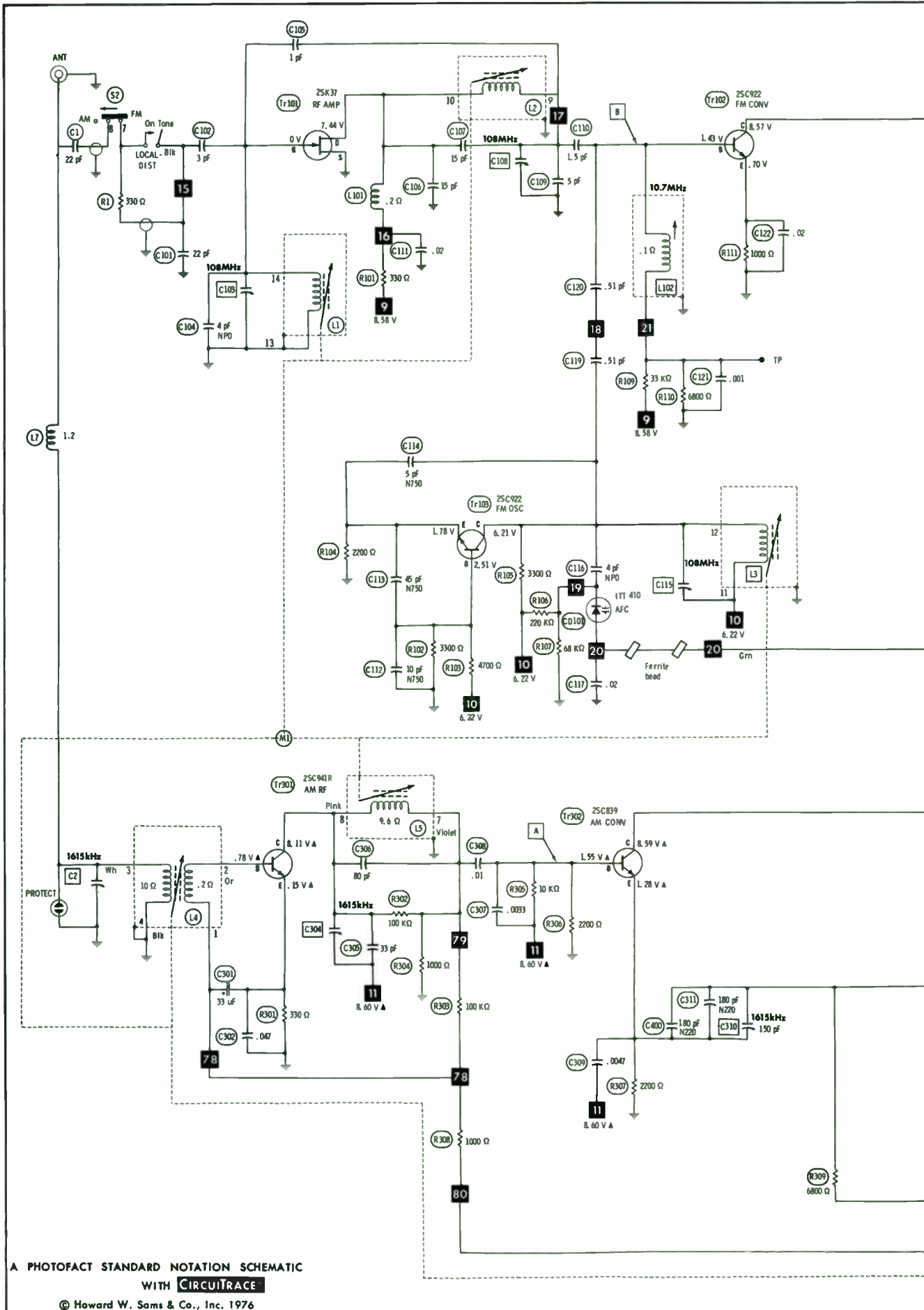
Terminal identification may not be found on unit.

Resistors are 1/2W or less, 5% unless noted.

Value in ( ) used in some versions.

A PHOTOFACIT STANDARD NOTATION SCHEMATIC  
WITH **CIRCUITRACE**

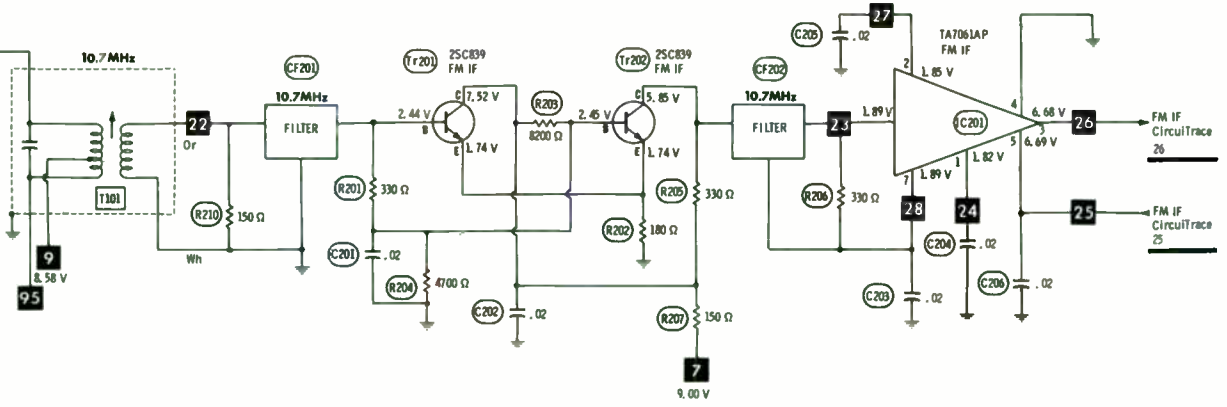
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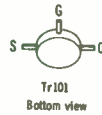
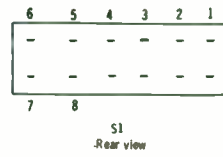
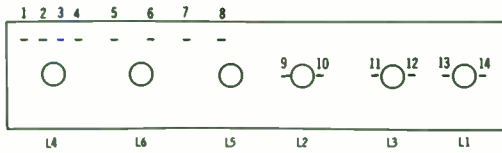
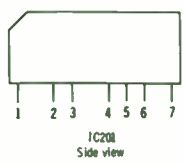
A PHOTOFAC STANDARD NOTATION SCHEMATIC  
WITH **CIRCUITRACE**

© Howard W. Sams & Co., Inc. 1976

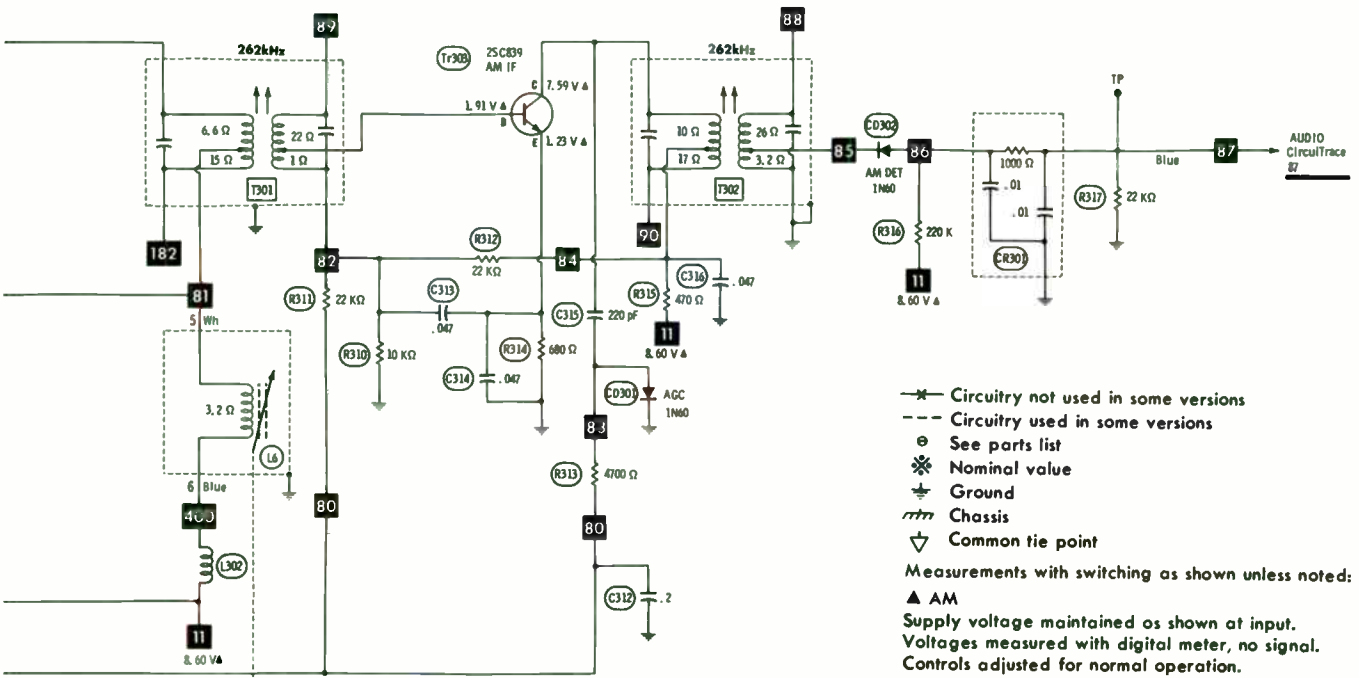




Terminal Guides

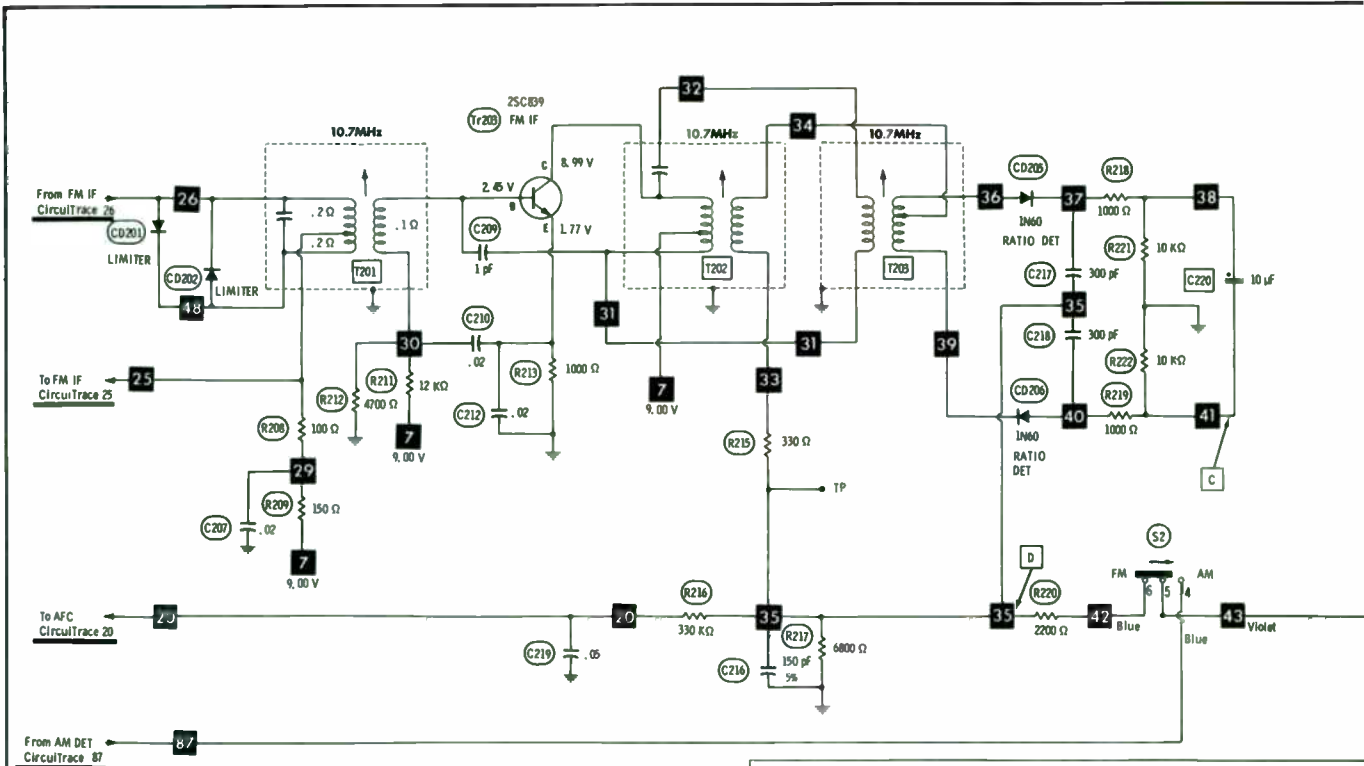


20 —————> RATIO DET  
CircuitTrace 20

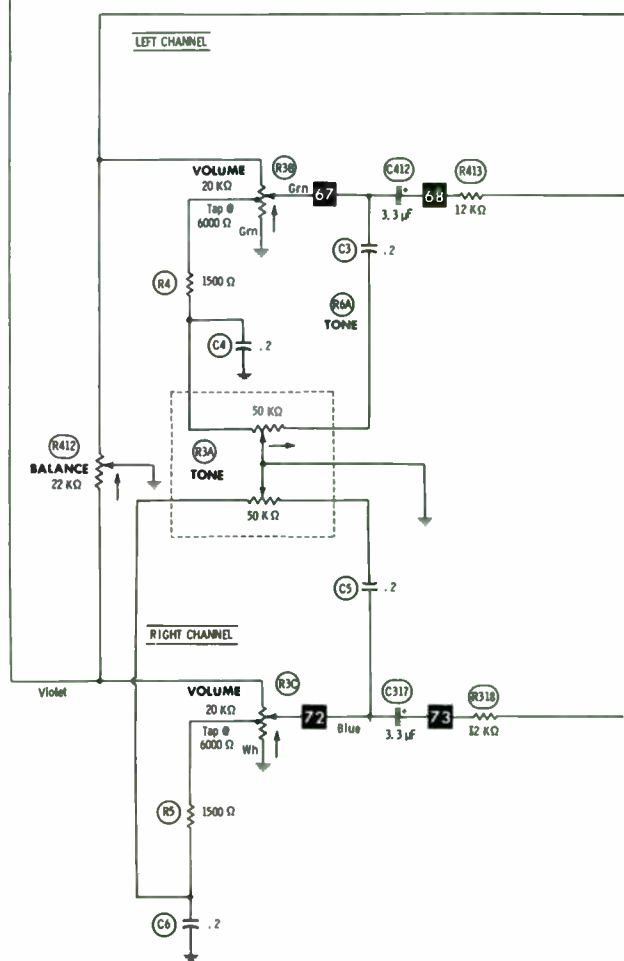
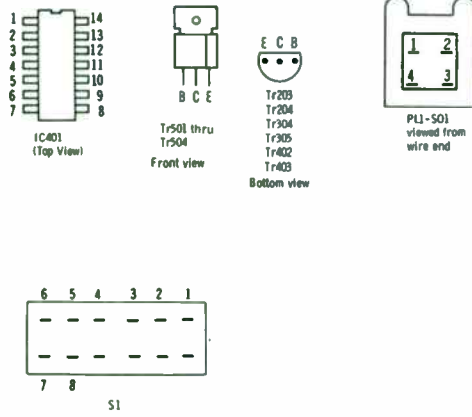


- ✖ Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ▨ Chassis
- ▽ Common tie point

Measurements with switching as shown unless noted:  
 ▲ AM  
 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.



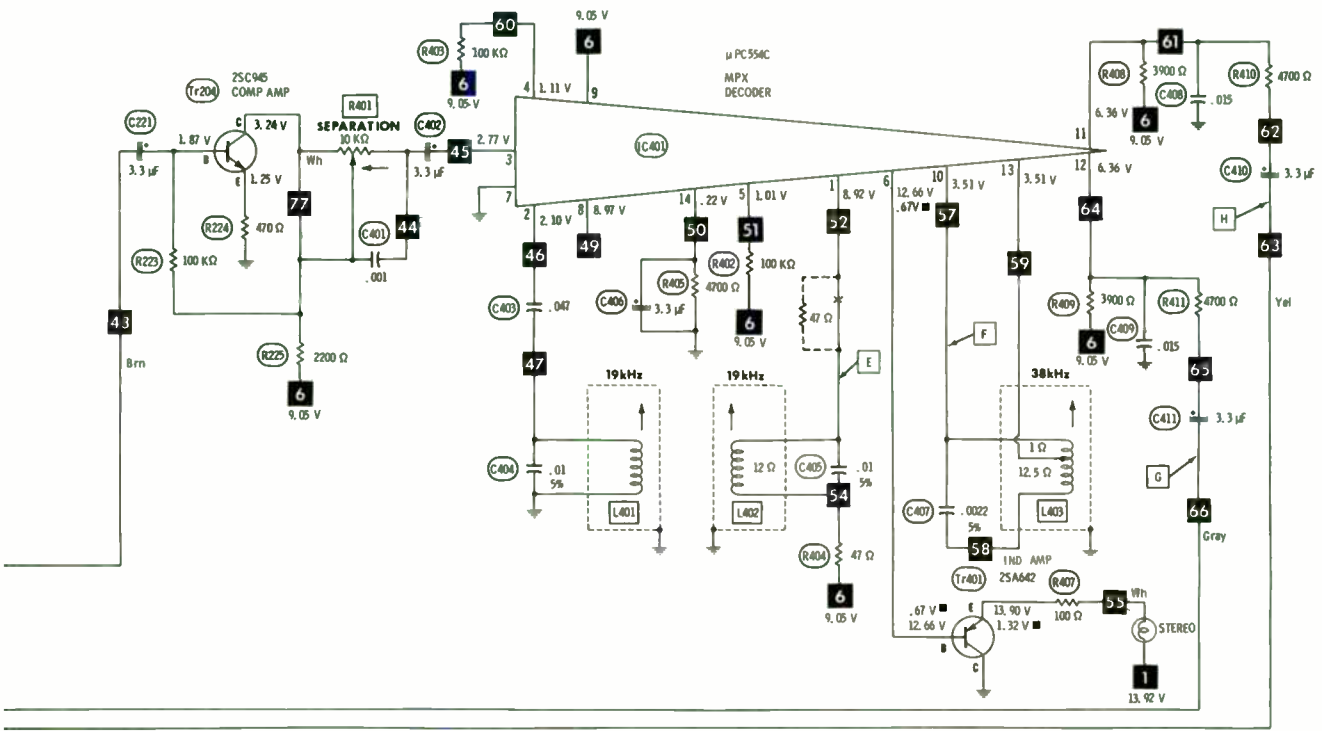
Terminal Guides



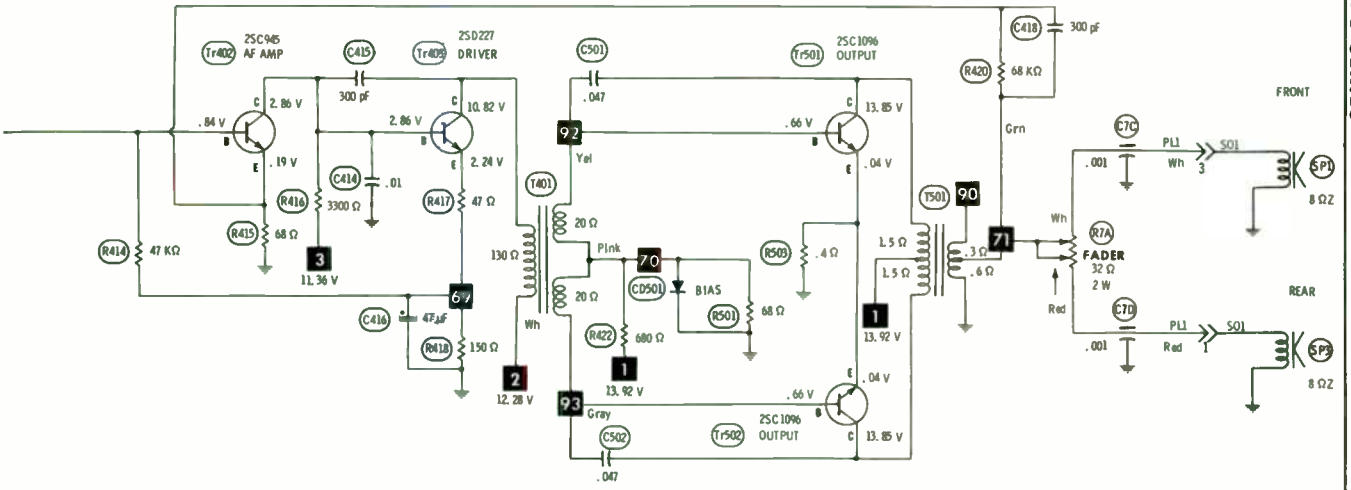
- ✱ Circuitry not used in some versions
- Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ⊞ Chassis
- ▽ Common tie point

Measurements with switching as shown unless noted:  
 ▲ AM  
 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.

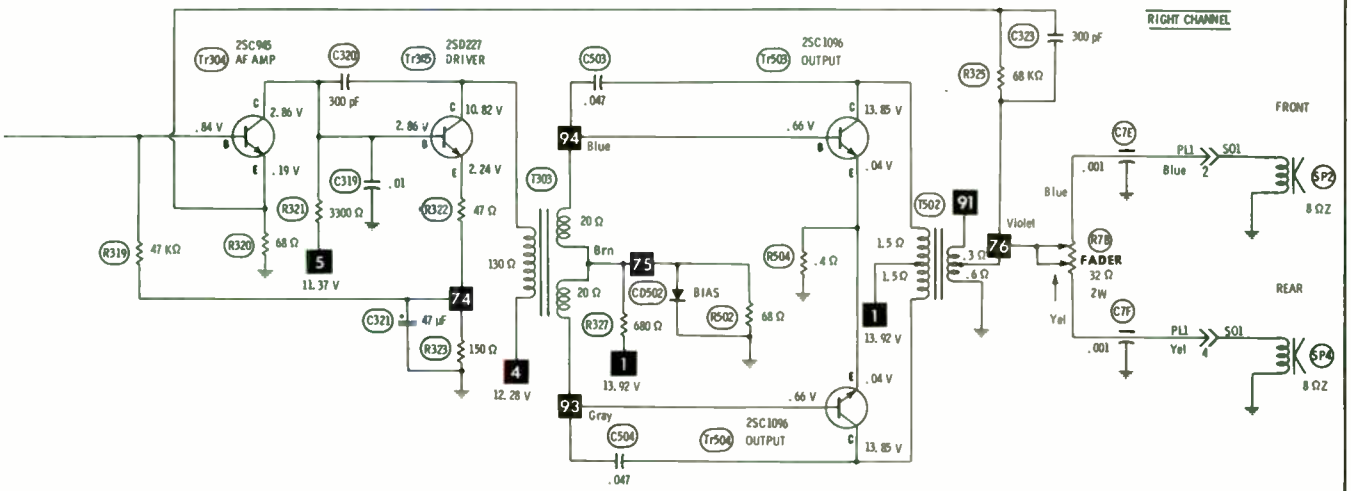
A PHOTOFACIT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE



LEFT CHANNEL



RIGHT CHANNEL



# 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	22		OTZ-22	NP022	CN0422	10TCC-Q22
C2						
C3	.2			OPMS2P2	PVC602	2PS-P20
C4	.2			OPMS2P2	PVC602	2PS-P20
C5	.2			OPMS2P2	PVC602	2PS-P20
C6	.2			DPMS2P2	PVC602	2PS-P20
C7A	.001					
B	.001					
C	.001					
D	.001					
E	.001					
F	.001					
C101	22		OTZ-22	NP022	CN0422	10TCC-Q22
C102	3		OTZ-3R3	NP03P3	CN0533	10TCC-V33
C103						
C104	4 NPO		OTZ-4R7	NP04P7	CN0537	10TCC-V47
C105	1				CN0510	10TCC-V10
C106	15 NPO		DTZ-15	NP015	CN0415	10TCC-Q15
C107	15 NPO		DTZ-15	NP015	CN0415	10TCC-Q15
C108						
C109	5					10TCC-V50
C110	1.5		OTZ-1R5	NP01P5	CN0515	10TCC-V15
C111	.02		DC-203		MAG5012	2SS-S20
C112	10 N750		DTN-10	N10	CN7410	10TCU-Q10
C113	45 N750		DTN-47	N47	CN7447	10TCU-Q47
C114	5 N750		DTN-5	N5	CN7550	10TCU-V50
C115						
C116	4 NPO		DTZ-4R7	NP04P7	CN0537	10TCC-V47
C117	.02		DC-203		MAG5012	2SS-S20
C118	.02		DC-203		MAG5012	2SS-S20
C119	.51pF					
C120	.51pF					
C121	.001			DPMS601	EWF1A210	1PB-D10
C122	.02		DC-203		MAG5012	2SS-S20
C125	.02		DC-203		MAG5012	2SS-S20
C201	.02		DC-203		MAG5012	2SS-S20
C202	.02		DC-203		MAG5012	2SS-S20
C203	.02		DC-203		MAG5012	2SS-S20
C204	.02		DC-203		MAG5012	2SS-S20
C205	.02		DC-203		MAG5012	2SS-S20
C206	.02		DC-203		MAG5012	2SS-S20
C207	.02		DC-203		MAG5012	2SS-S20
C208	.047		DC-503	MGP05	MAG5015	TGL-S50
C209	1				CN0510	10TCC-V10
C210	.02		DC-203		MAG5012	2SS-S20
C212	.02		DC-203		MAG5012	2SS-S20
C216	150 5%		DTZ-150		CN0315	10TCC-T15
C217	330		DD-331	GP330	GP333	10TS-T33
C218	330		DD-331	GP330	GP333	10TS-T33
C219	.05		DC-503	MGP05	MAG5015	TGL-S50
C302	.047		DC-503	MGP05	MAG5015	TGL-S50
C303	.047			OPMS2S47	EWF1A147	1PB-S47
C304						
C305	33		DTZ-33	NP033	CN0433	10TCC-Q33
C306	80		OTZ-82	NP082	CN0482	10TCC-Q82
C307	.0033		DD-332	GP3300	GP233	2SS-D33
C308	.01		DC-103	GP10000	MAG5011	2SS-S10
C309	.0047		DD-472	GP4700	GP247	2SS-D47
C310						
C311	180 N220				*	10TCR-T18
C312	.2			DPMS2P2	PVC602	2PS-P20
C313	.047		DC-503	MGP05	MAG5015	TGL-S50
C314	.047		DC-503	MGP05	MAG5015	TGL-S50
C315	220		DTZ-220			10TCC-T22
C316	.047		DC-503	MGP05	MAG5015	TGL-S50
C319	.01		DC-103	GP10000	MAG5011	2SS-S10
C320	300		DD-301	GP300	GP330	10TS-T30
C323	300		DD-301	GP300	GP330	10TS-T30
C400	180 N220				*	10TCR-T18
C401	.001		DD-102	GP1000	GP210	2SS-D10
C403	.047		DC-503	MGP05	MAG5015	TGL-S50
C404	.01 5%			CD20FD103J03	SX110	
C405	.01 5%			CD20FD103J03	SX110	
C407	.0022 5%			CD19FD222J03	SX222	424ME2201J501
C408	.015			DPMS4S15	EWF1A115	1PB-S15
C409	.015			DPMS4S15	EWF1A115	1PB-S15
C414	.01		DC-103	GP10000	MAG5011	2SS-S10
C415	300		DD-301	GP300	GP330	10TS-T30
C418	300		DD-301	GP300	GP330	10TS-T30
C501	.047		DC-503	MGP05	MAG5015	TGL-S50
C502	.047		DC-503	MGP05	MAG5015	TGL-S50
C503	.047		DC-503	MGP05	MAG5015	TGL-S50
C504	.047		DC-503	MGP05	MAG5015	TGL-S50



## 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.
R3A	Tone	50K				
B	Volume-Left/Lo-DX Switch	20K Tap @ 6000				
C	Volume-Right/Power Switch	20K Tap @ 6000				
R7A	Fader-Left	32 2W				
B	Fader-Right	32 2W				
R401	Separation	10K				
R412	Balance	22K				

### COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	FM Antenna	(1)			(1) Part of M1 (Tuner).
L2	FM RF	(1)			
L3	FM Oscillator	(1)			
L4	AM Antenna	(1)			
L5	AM RF	(1)			
L6	AM Oscillator	(1)			
L7	AM Antenna Choke				
L101	RF Choke (2.2uH)			70F226A1	
L102	10.7MHz Trap				
L103	RF Choke (22uH)				
L201	RF Choke (22uH)				
L401	19kHz		ML554B		
L402	19kHz		ML554B		
L403	38kHz		ML554C		
T101	FM IF (10.7MHz)		T830B		
T201	FM IF (10.7MHz)				
T202	FM IF (10.7MHz)				
T203	FM IF (10.7MHz)				
T301	AM IF (262kHz)		IT-808A		
T302	AM IF (262kHz)		IT-218B-1		

AUDIOVOX 1975 SERIES

### 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.	
L501	235mA	.5	5.3mH				

### TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T303	2.6	1	1	DT-2 (1)			(1) Number on unit.
T401	2.6	1	1	DT-2 (1)			

### TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T501	26CT	8	OT-5 (1)			(1) Number on unit.
T502	26CT	8	OT-5 (1)			

## 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
		MFR. PART No.	QUAM PART No.	
SP1	PM, 8 Ohms			
SP2	PM, 8 Ohms			
SP3	PM, 8 Ohms			
SP4	PM, 8 Ohms			

### FUSE DEVICES

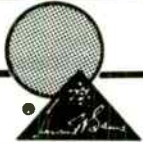
ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	3A			AGC3	HDJ	312003	150145	FG3-2

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF201	Filter		10.7MHz
CF202	Filter		10.7MHz
CR301	Component Combination		AM Det
M1	Tuner		AM-FM (PT-4038)
S2	Switch		AM-FM

### 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



**PHOTOFACT<sup>®</sup> with**

**CIRCUITRACE<sup>®</sup>**

For Supplier Address See PHOTOFACT Index



MODEL 6275

CHANNEL MASTER MODEL 6275

**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 (21) dirty, worn, or broken. Assembly (19) binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch (S3) dirty. Cam (10) binding or worn. Pawl (17) worn. Assembly (9) binding. Solenoid (M3) defective or not supplied with power. Cartridge defective.
Wow or flutter	Belt (21) 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.

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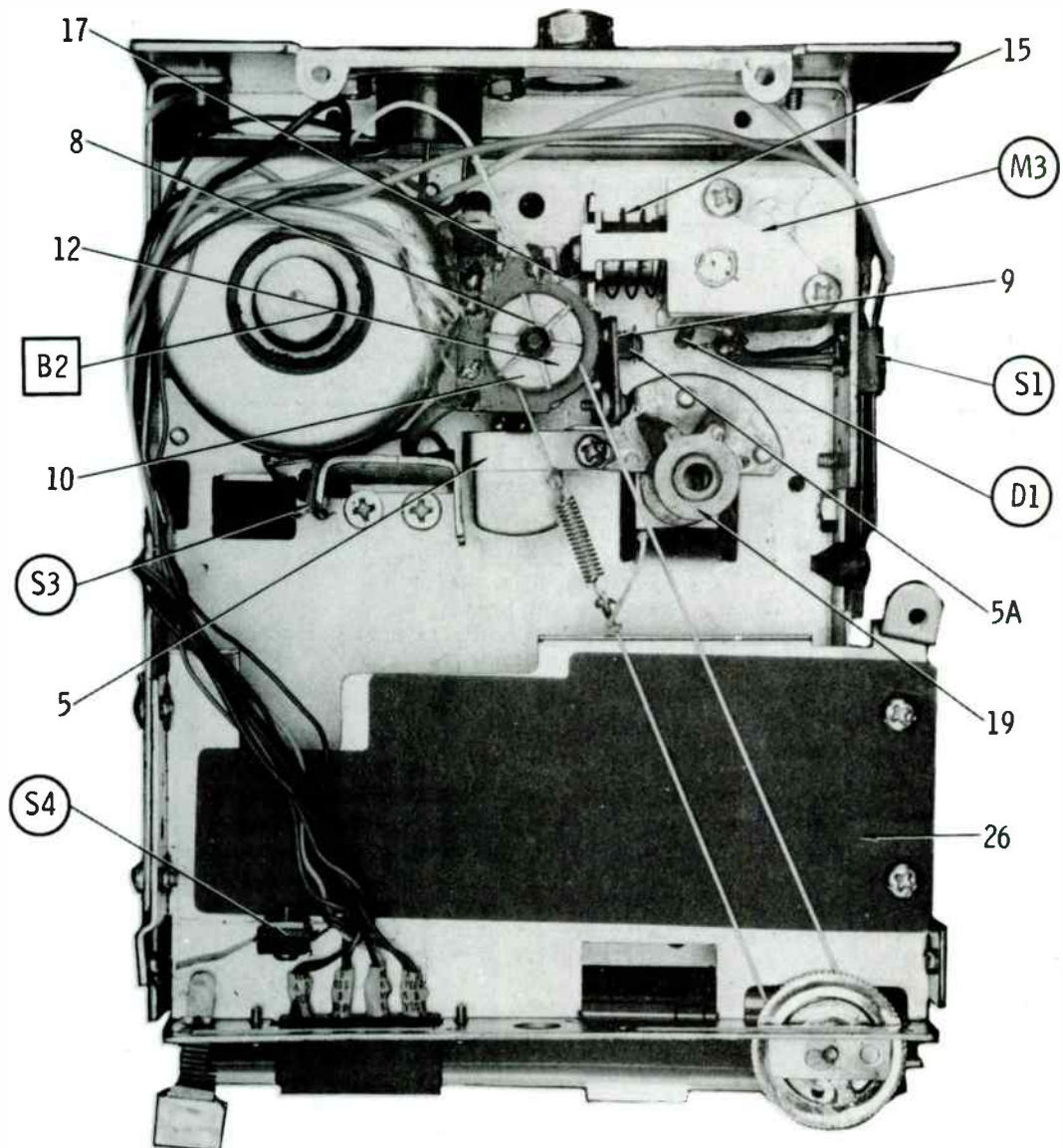
## MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
5		Head Clamp	17		Pawl
5A		Azimuth Spring	19		Flywheel Housing Assembly
8		Head Lifting Spring	20		Flywheel
9		Head Shift Assembly	21*	*	Flywheel Drive Belt*
10		Track Changing Cam	22		Motor Pulley
12		Height Adjustment Nut	26		Cartridge Detent Arm
15		Solenoid Spring			

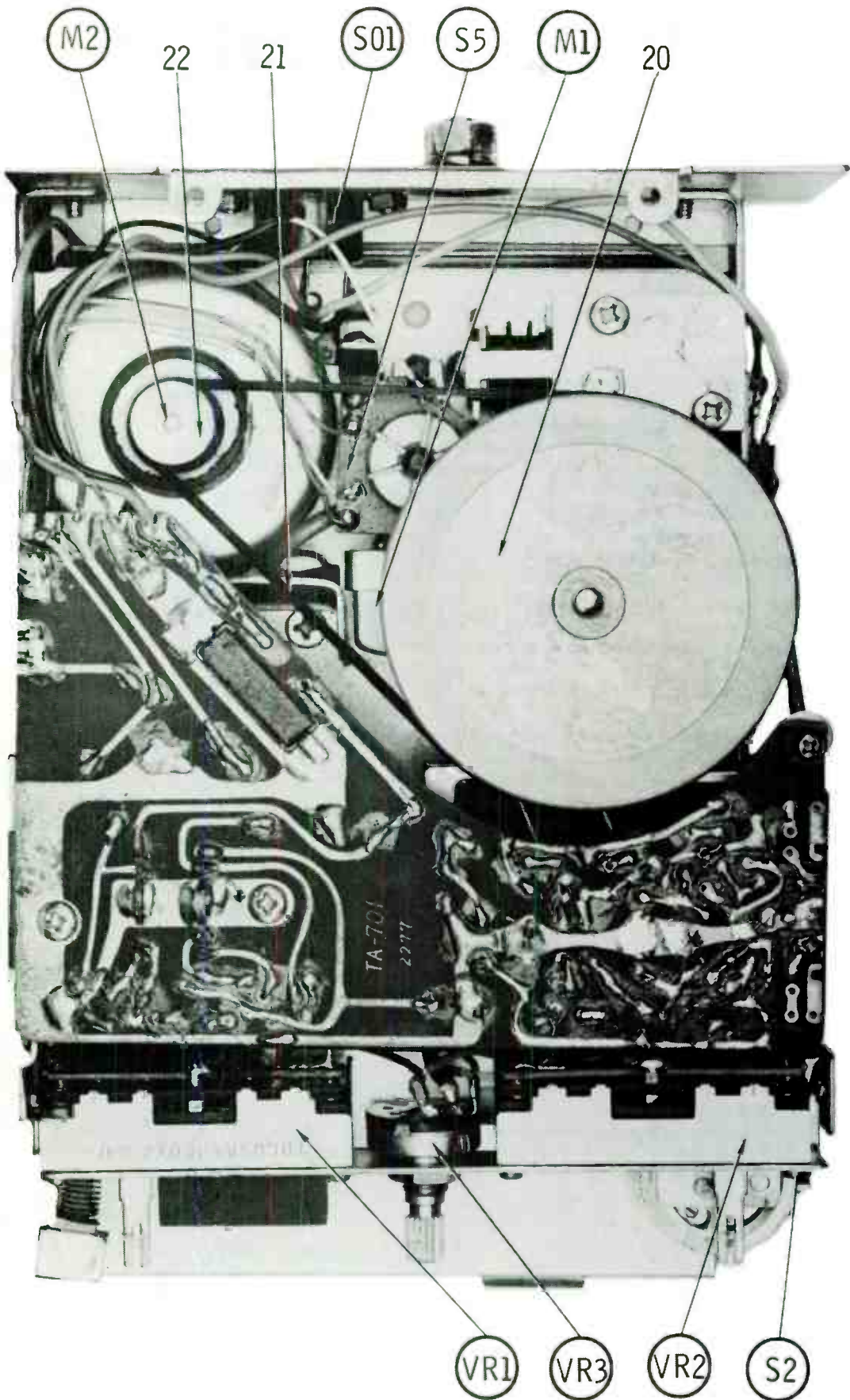
\* Flywheel Drive Belt: E-V/GAME Replacement Number 1425-28.  
 WALSCO Replacement Number 1425-28.

## CLEANING LUBRICATING HEAD DEMAGNETIZING

Refer to  
 "General Servicing Information"  
 on page 4.

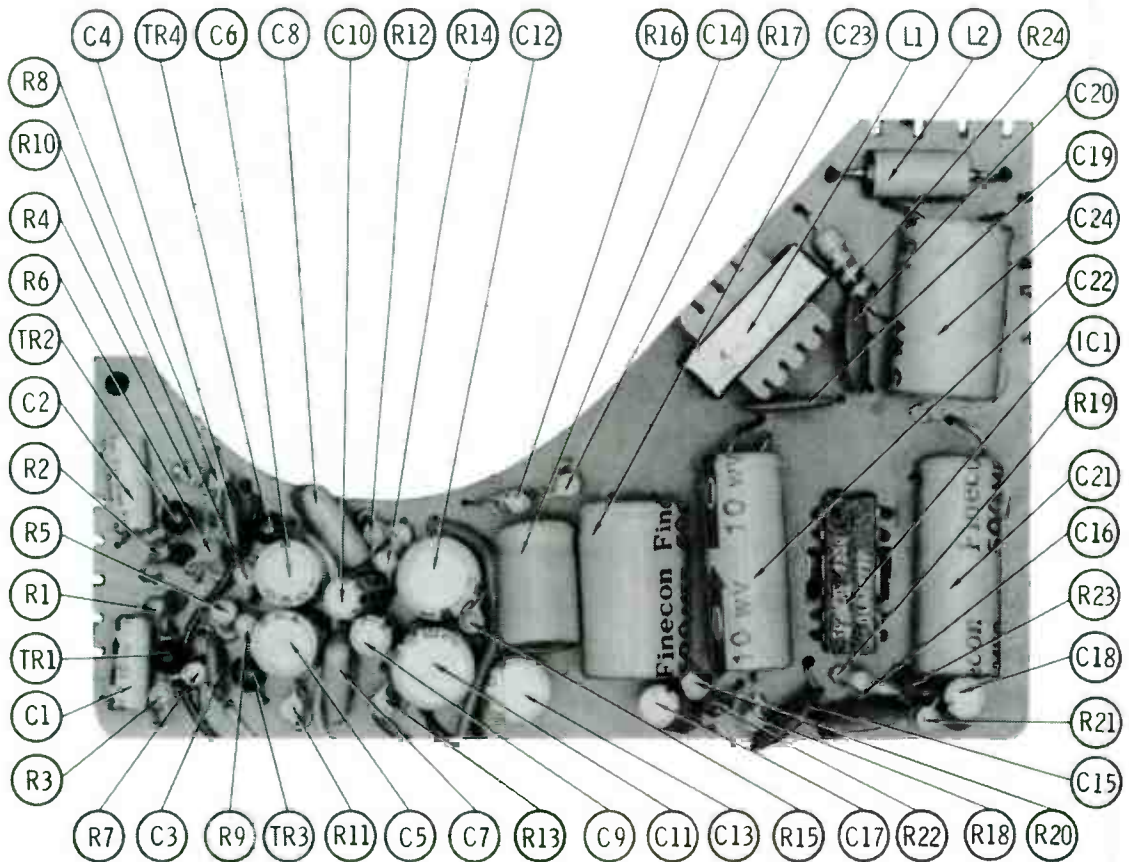
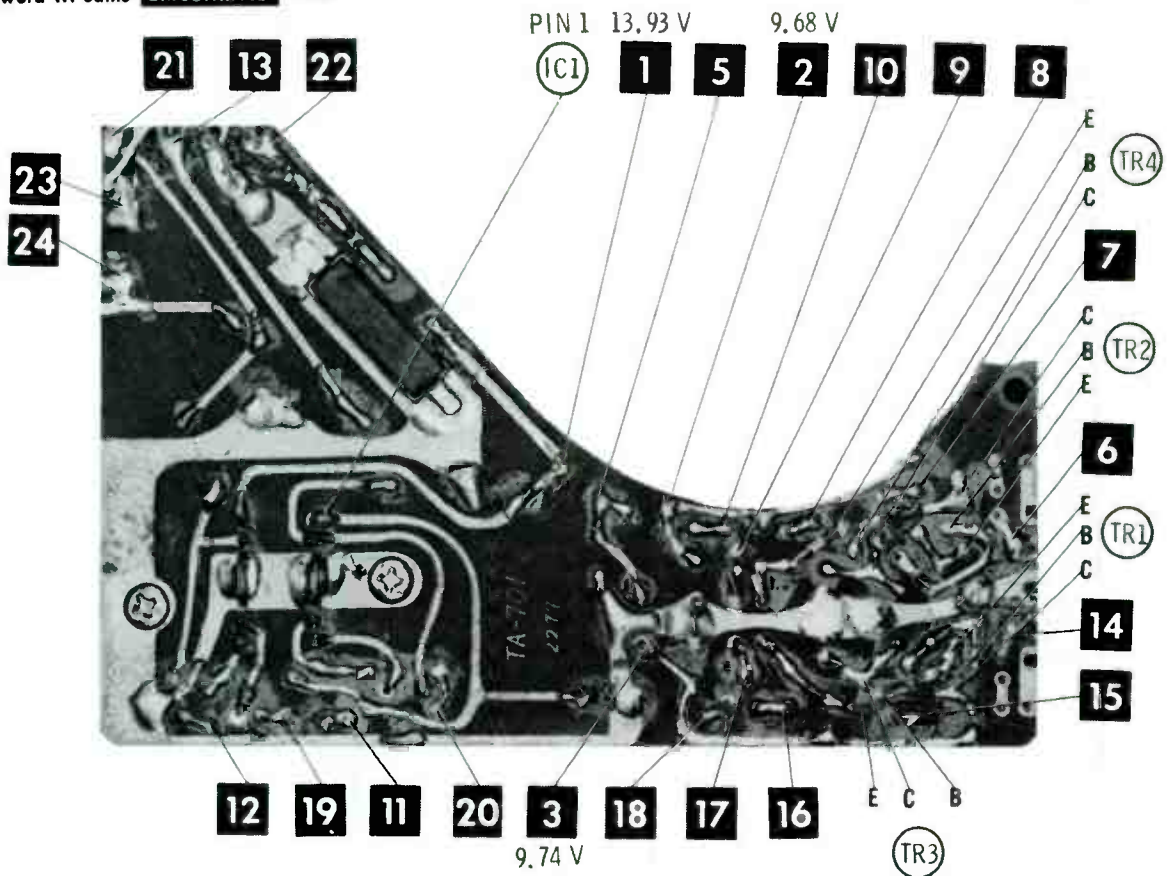


TAPE DECK-BOTTOM VIEW



CHASSIS-TOP VIEW





**MAIN 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.

## 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.	WORKMAN PART No.
D1 IC1	10D4 ULN2277P ULX2277(1)		GE-504A GEIC-27	PTC201 PTC738	HEPRO053 HEPC6090	RE 49 RE 322-IC	SK3016	RT-214 TVCM-25	ECG116 ECG804	8D4
TR1	2SC537HT		GE-212	PTC121	HEPS0016	RE 13	SK3124	RT-107A	ECG123A	TR-21
TR2	2SC537HT		GE-212	PTC121	HEPS0016	RE 13	SK3124	RT-107A	ECG123A	TR-21
TR3	2SC537HT		GE-212	PTC121	HEPS0016	RE 13	SK3124	RT-107A	ECG123A	TR-21
TR4	2SC537HT		GE-212	PTC121	HEPS0016	RE 13	SK3124	RT-107A	ECG123A	TR-21

(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.
C1	10 10V		PC10-25	VTT10A25	EV-1222
C2	10 10V		PC10-25	VTT10A25	EV-1222
C5	47 10V		PC50-16	VTT47D16	EV-1226
C6	47 10V		PC50-16	VTT47D16	EV-1226
C9	10 10V		PC10-25	VTT10A25	EV-1222
C10	10 10V		PC10-25	VTT10A25	EV-1222
C11	100 10V		PC100-10	VTT100E10	EV-1130
C12	100 10V		PC100-10	VTT100E10	EV-1130
C13	50 10V		PC50-10	TT10X50A	TVA-1129.94
C14	200 10V		PC200-10	MTV200DB10	TVA-1130.6
C17	4.7 10V		PC5-50	VTT4R7A50	EV-1319
C18	4.7 10V		PC5-50	VTT4R7A50	EV-1319
C21	500 10V		PC500-16	TC1205A	TVA-1132
C22	500 10V		PC500-16	TC1205A	TVA-1132
C23	470 15V		PC500-16	VTT47QJ16	EV-1250
C24	470 15V		PC500-16	VTT47QJ16	EV-1250

CHANNEL MASTER MODEL 6275

## CAPACITORS

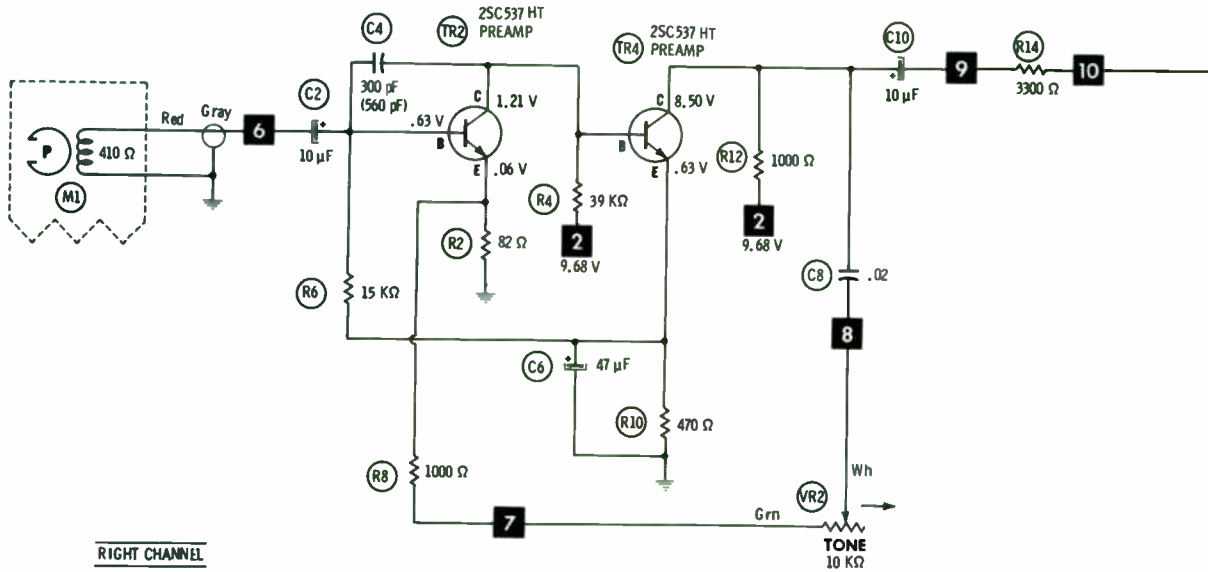
ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C3	300		DD-301	GP300	GP330	10TS-T30
C4	560	(1)	DD-561	GP300	GP356	10TS-T56
	300		DD-301		GP330	10TS-T30
C7	560	(1)	DD-561	DC-203	GP356	10TS-T56
	.02		DC-203		MAG5012	2SS-S20
C8	.02		DC-203		MAG5012	2SS-S20
C15	.04				GP140	5GA-S40
C16	.04				GP140	5GA-S40
C19	.04				GP140	5GA-S40
C20	.1	(1)	DC-104	MGP1	MAG5001	TG-P10
	.04				GP140	5GA-S40
C25	.1	(1)	DC-104	MGP1	MAG5001	TG-P10
	.04				GP140	5GA-S40

(1) Used in some versions.

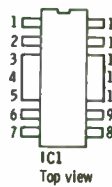
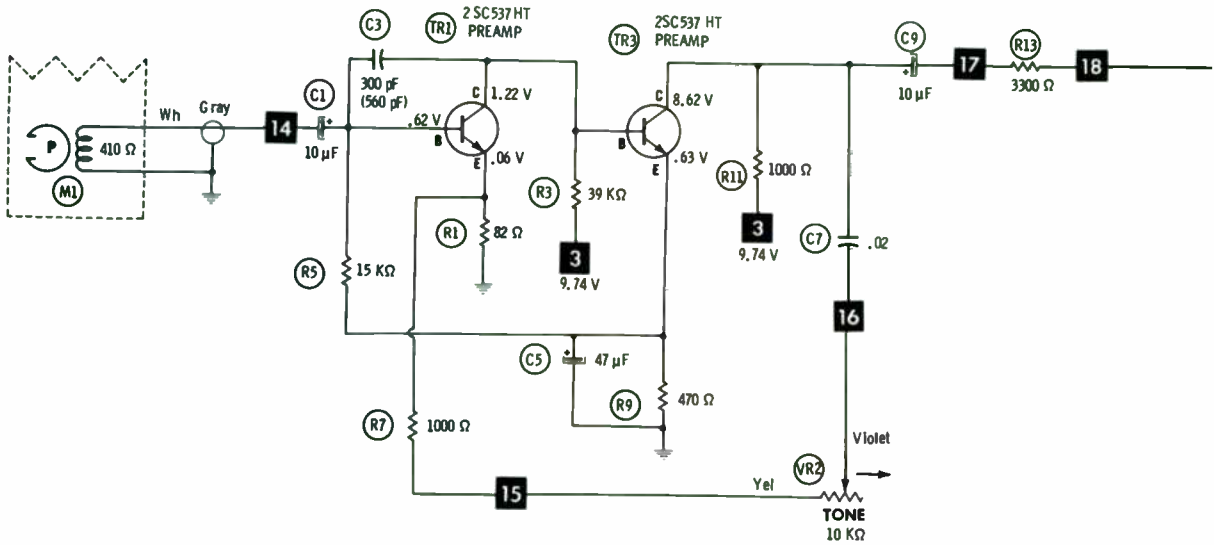
CONTINUED ON PAGE 44.

**NOTE: DEMAGNETIZE HEADS AFTER SERVICING**

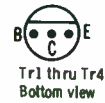
LEFT CHANNEL



RIGHT CHANNEL



Terminal Gullies



Tr1 thru Tr4 Bottom view



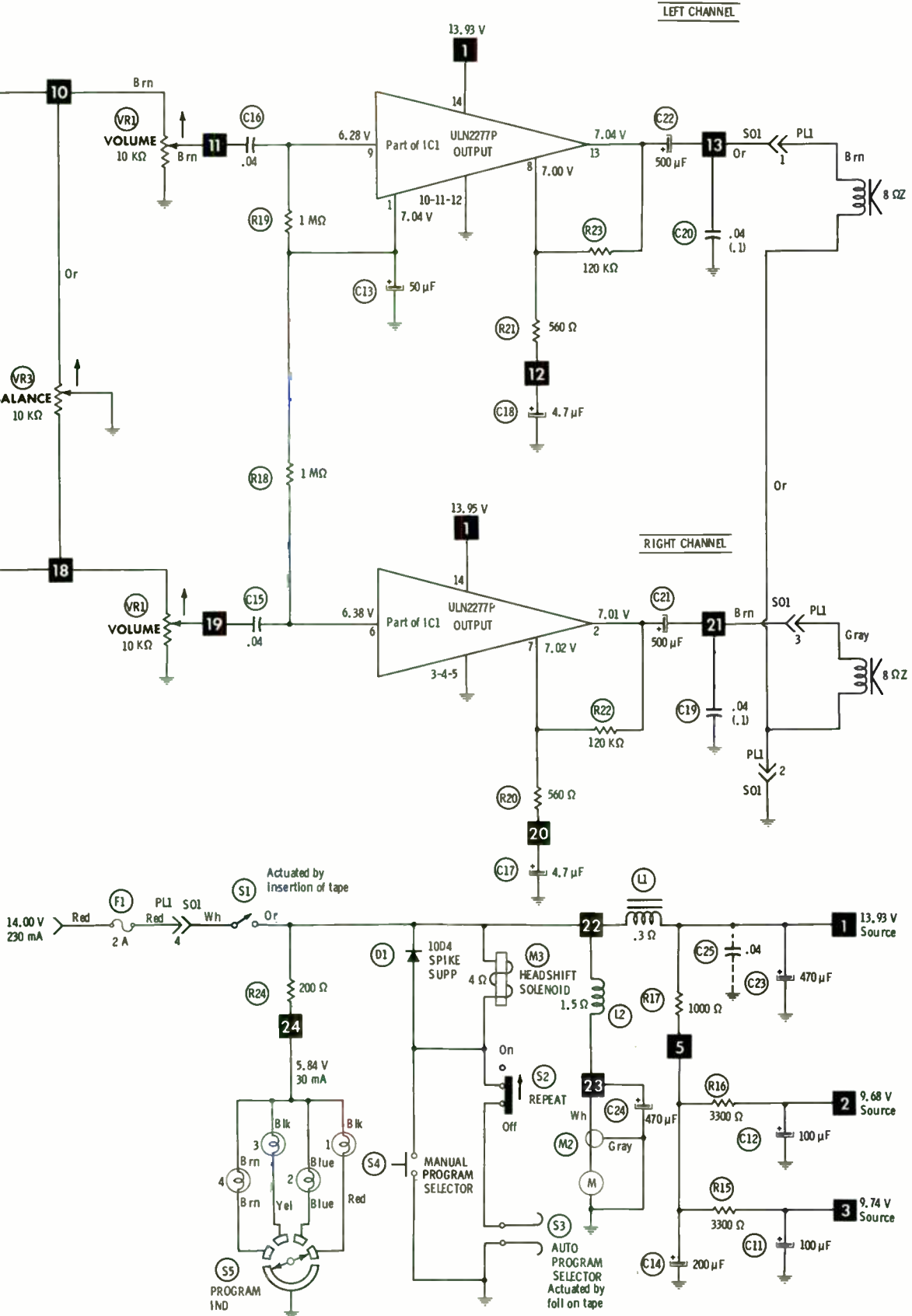
PL1-S01 Plug pin view

- Circuitry not used in some version
- - - Circuitry used in some versions
- ⊙ See parts list
- \* Nominal value
- ⊕ Ground
- ⏏ Chassis
- ∇ Common tie point

Measurements with switching as shown unless noted:  
▲ AM

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, 10% unless noted. Value in ( ) used in some versions.

A PHOTOFACIT STANDARD NOTATION SCHEMATIC WITH **CIRCUITRACE**  
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## 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	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR1	Volume - Left	10K					
VR1	Volume - Right	10K					
VR2	Tone - Left	10K					
VR2	Tone - Right	10K					
VR3	Balance	10K					

### COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L2	RF Choke (3uH)				

### 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.	
L1	20mA	.3	10mH				

### 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	2 A			AGC2	HDJ	312002	150145	F62-2	

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1	Head		8-Track Stereo Play Tape Transport (2500 rpm @ 13.68V) Head Shift Power (On/Off) Repeat Auto Program Selector Manual Program Selector Program Indicator
M2	Motor		
M3	Solenoid		
S1	Switch		
S2	Switch		
S3	Switch		
S4	Switch		
S5	Switch		

### 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





# PHOTOFACT<sup>®</sup> with

# CIRCUITRACE<sup>®</sup>

For Supplier Address See PHOTOFACT Index



MODEL 6382

## 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.

CHANNEL MASTER MODEL 6382

## 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 (S3) dirty. Cam (3) binding or worn. Pawl (4) worn. Assembly (6) binding. Solenoid (L2) 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.

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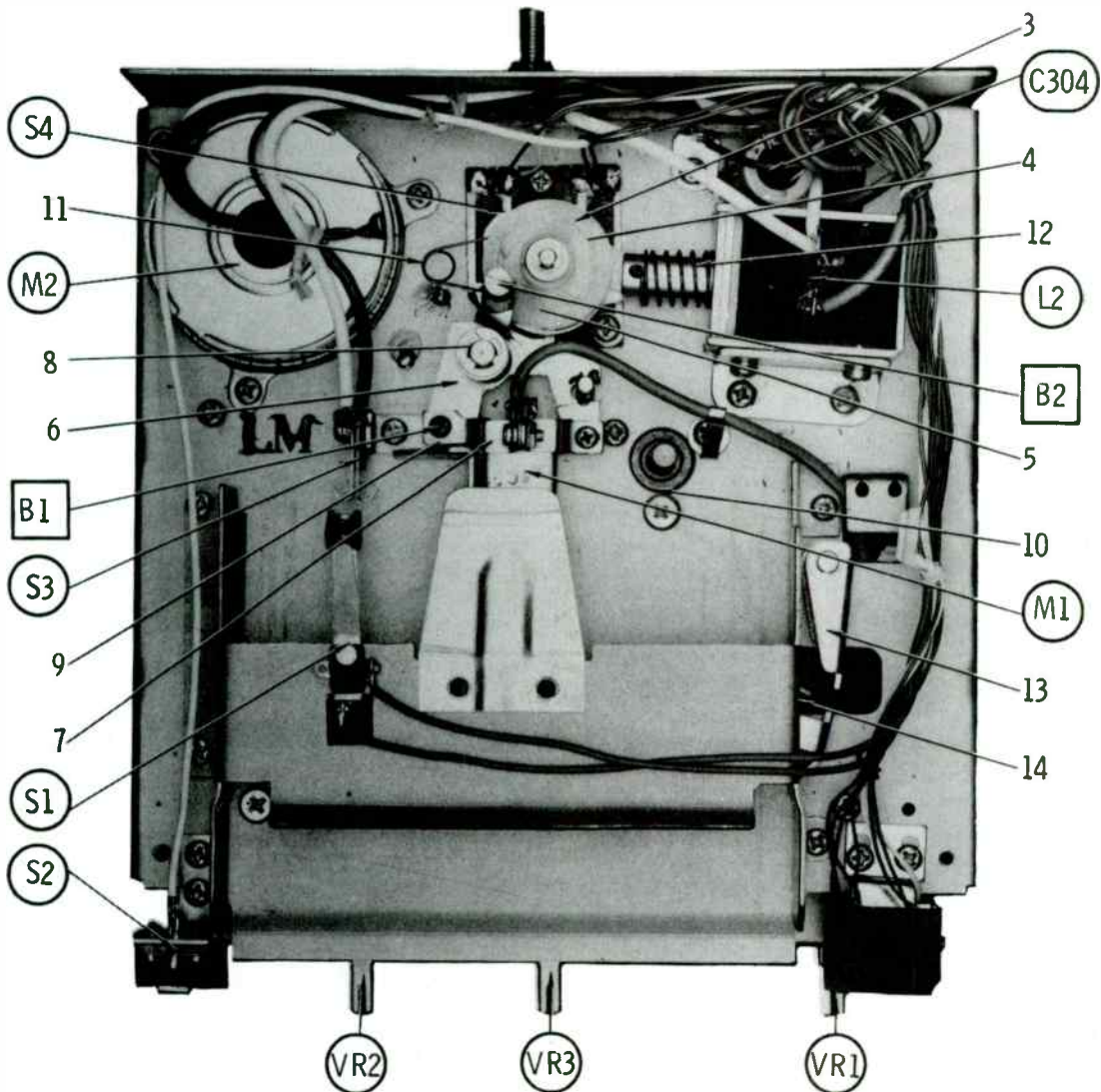
## MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1*	*	Flywheel Drive Belt*	9		Azimuth Spring
2		Flywheel	10		Flywheel Housing Assembly
3		Track Changing Cam	11		Pawl Spring
4		Push Pawl	12		Solenoid Spring
5		Pull Pawl	13		Cartridge Detent Arm
6		Head Shifting Assembly	14		Detent Spring
7		Head Clamp	15		Flywheel Retainer
8		Head Return Spring			

\* Flywheel Drive Belt: E-V/GAME Replacement Number 1424-18  
 WALSCO Replacement Number 1424-18

## CLEANING LUBRICATING HEAD DEMAGNETIZING

Refer to  
 "General Servicing Information"  
 on page 4.

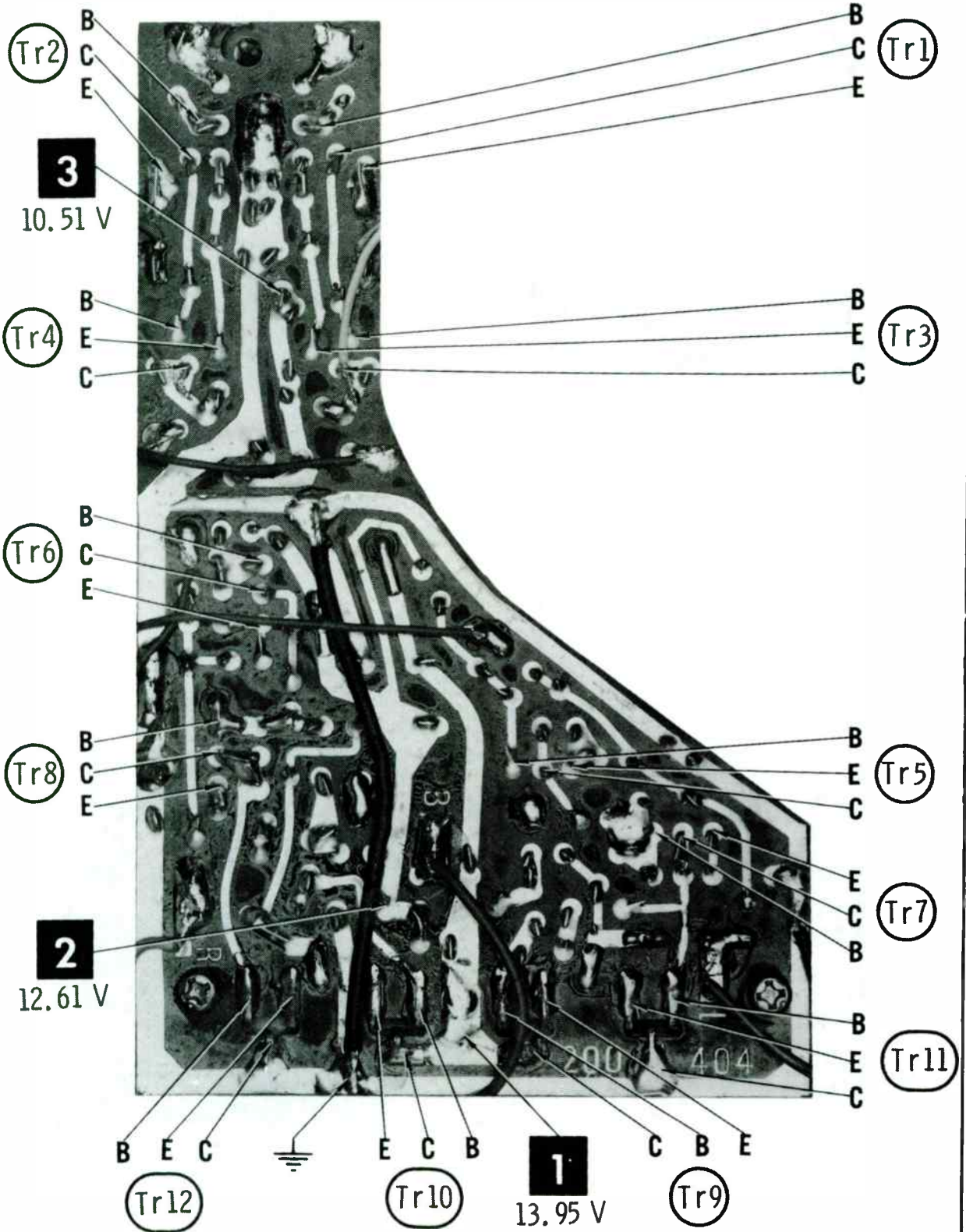


CHASSIS-TOP VIEW



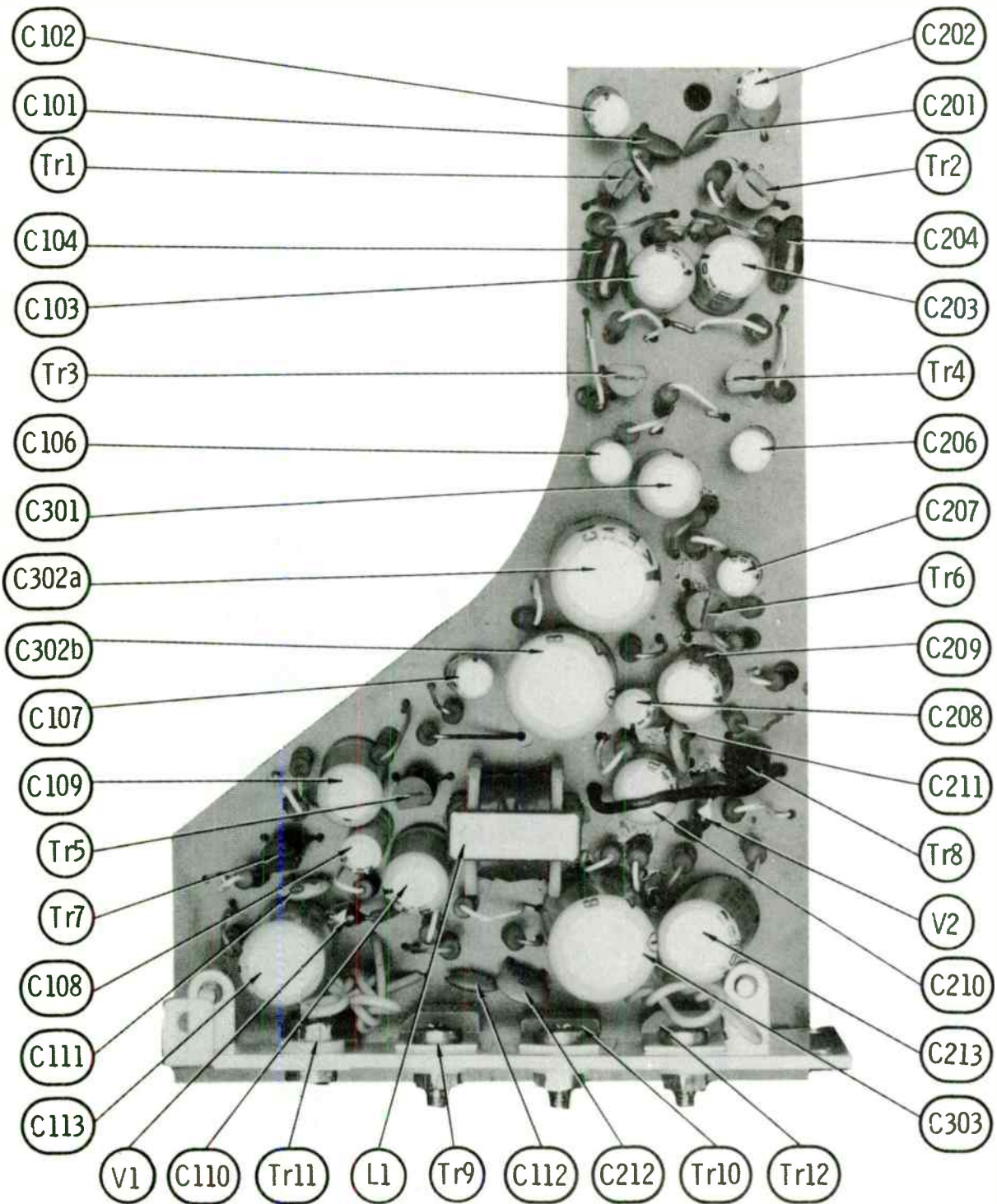
MAIN BOARD-BOTTOM VIEW



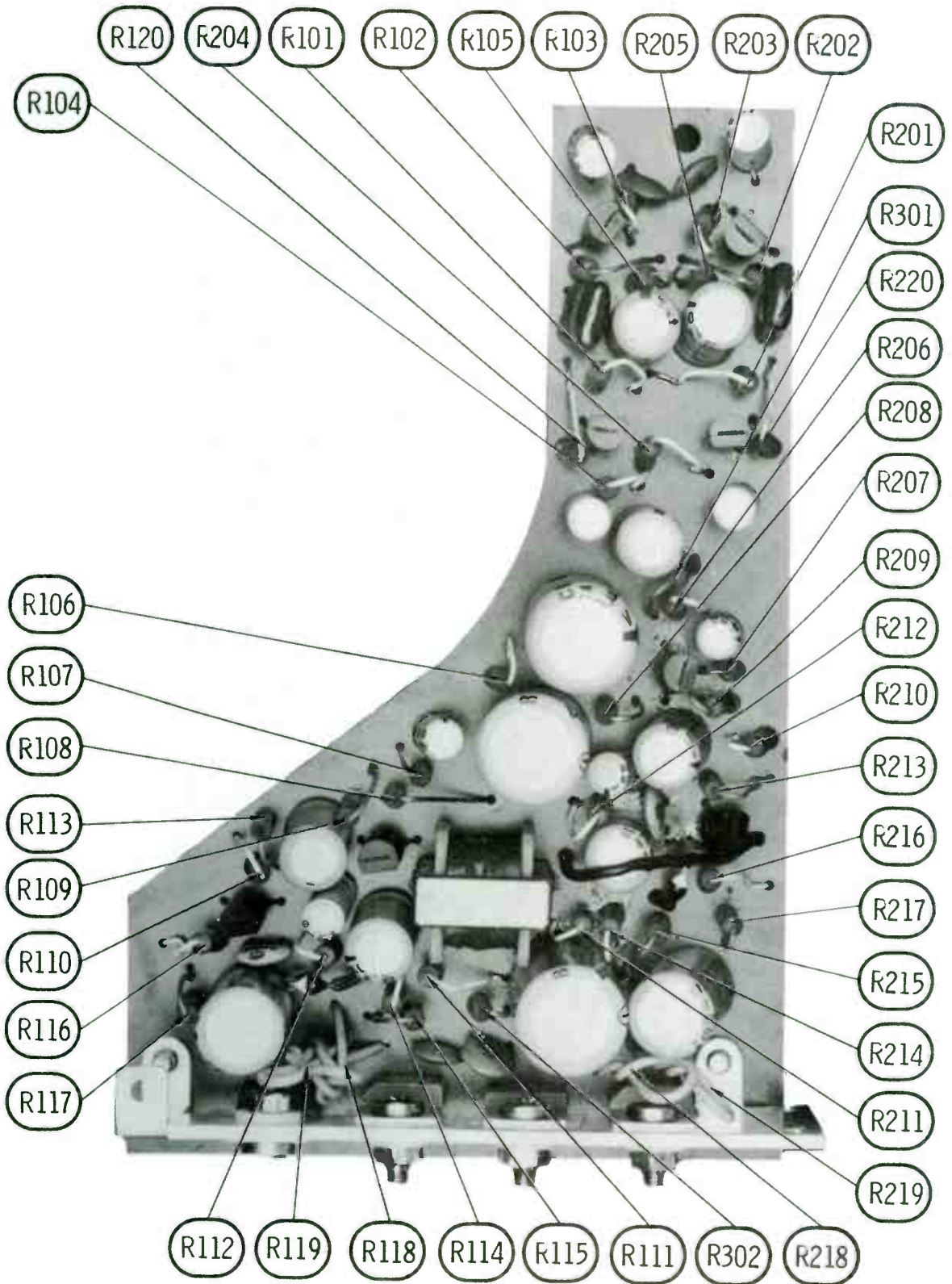


MAIN BOARD-BOTTOM VIEW





MAIN BOARD-TOP VIEW



MAIN BOARD-TOP VIEW

# 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<sup>®</sup> 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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Tr1	2SC900		GE-212	(IR)2SC644	PTC139	HEPS0030	RE 192	SK3124	RT-108A	ECG199
Tr2	2SC900		GE-212	(IR)2SC644	PTC139	HEPS0030	RE 192	SK3124	RT-108A	ECG199
Tr3	2SC945		GE-210	(IR)2SC945	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199
Tr4	2SC945		GE-210	(IR)2SC945	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199
Tr5	2SC945		GE-210	(IR)2SC945	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199
Tr6	2SC945		GE-210	(IR)2SC945	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199
Tr7	2SC945		GE-210	(IR)2SC945	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199
Tr8	2SC945		GE-210	(IR)2SC945	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199
Tr9	2SC1096 (5)		GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186A
Tr10	2SC1096 (5)		GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186A
Tr11	2SA634(5)		GE-29	TR-56	PTC111	HEPS5006	RE 43	SK3083	RT-196	ECG187A
Tr12	2SA634(5)		GE-29	TR-56	PTC111	HEPS5006	RE 43	SK3083	RT-196	ECG187A
V1	MV-1									
V2	MV-1									
V3	(1)		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116

(1) Used in some versions.  
 (5) Half of complementary pair.

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C102	10 10V		PC10-25	VTT10A25	EV-1222
C103	47 10V		PC50-16	VTT47D16	EV-1226
C106	10 10V		PC10-25	VTT10A25	EV-1222
C107	10 10V		PC10-25	VTT10A25	EV-1222
C108	10 10V		PC10-25	VTT10A25	EV-1222
C109	47 10V		PC50-16	VTT47D16	EV-1226
C110	47 10V		PC50-16	VTT47D16	EV-1226
C113	470 10V		PC500-16	VTT470J16	EV-1150
C202	10 10V		PC10-25	VTT10A25	EV-1222
C203	47 10V		PC50-16	VTT47D16	EV-1226
C206	10 10V		PC10-25	VTT10A25	EV-1222
C207	10 10V		PC10-25	VTT10A25	EV-1222
C208	10 10V		PC10-25	VTT10A25	EV-1222
C209	47 10V		PC50-16	VTT47D16	EV-1226
C210	47 10V		PC50-16	VTT47D16	EV-1226
C213	470 10V		PC500-16	VTT470J16	EV-1150
C301	100 16V		PC100-16	VTT100F16	EV-1230
C302a	470 16V		PC500-16	VTT470J16	EV-1250
C302b	470 16V		PC500-16	VTT470J16	EV-1250
C303	470 16V		PC500-16	VTT470J16	EV-1250
C304	470 16V		PC500-16	VTT470J16	EV-1250

## CAPACITORS

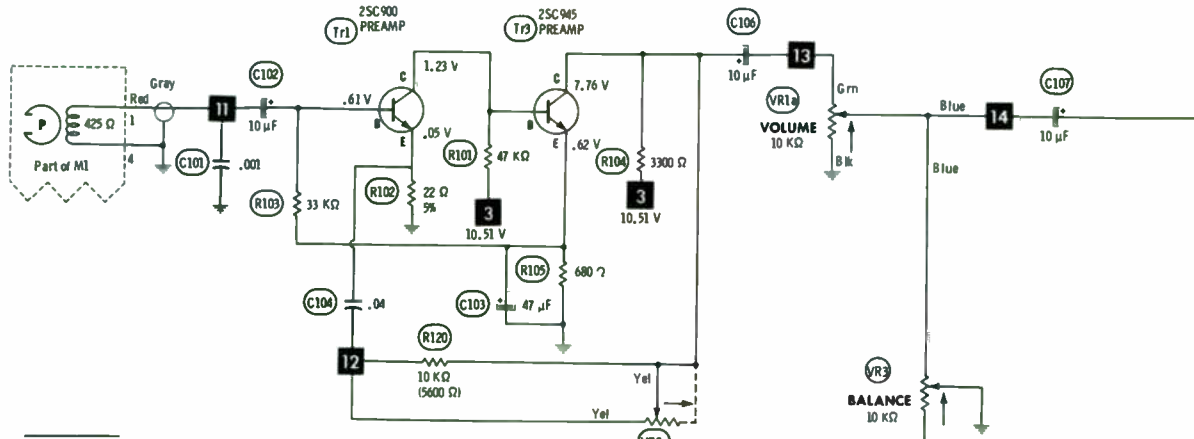
ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C101	.001		DD-102	GP1000	GP210	2SS-D10
C104	.04				GP140	5GA-S40
C111	200		DD-201	GP200	GP320	10TS-T20
C112	.01		DC-103	GP10000	MAG5011	2SS-S10
C201	.001		DD-102	GP1000	GP210	2SS-D10
C204	.04				GP140	5GA-S40
C211	200		DD-201	GP200	GP320	10TS-T20
C212	.01		DC-103	GP10000	MAG5011	2SS-S10

CONTINUED ON PAGE 54.

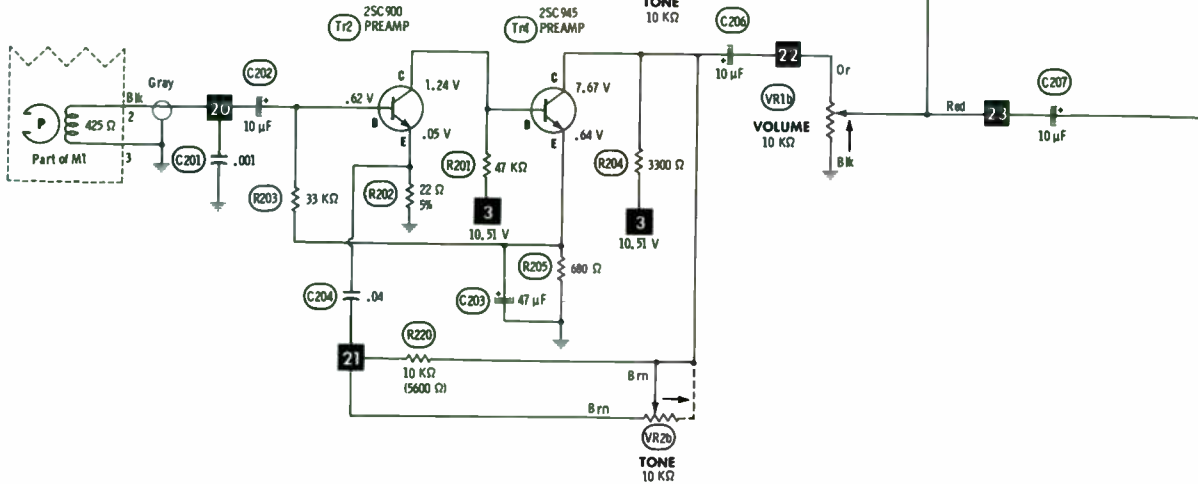
CHANNEL MASTER MODEL 6382

**NOTE: DEMAGNETIZE HEADS AFTER SERVICING**

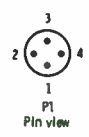
**LEFT CHANNEL**



**RIGHT CHANNEL**



**Terminal Guides**



- \*— Circuitry not used in some versions
  - - - Circuitry used in some versions
  - ⊙ See ports list
  - ⊛ Nominal value
  - ⊕ Ground
  - ⌚ Chassis
  - ∇ Common tie point
- Measurements with switching as shown unless noted:

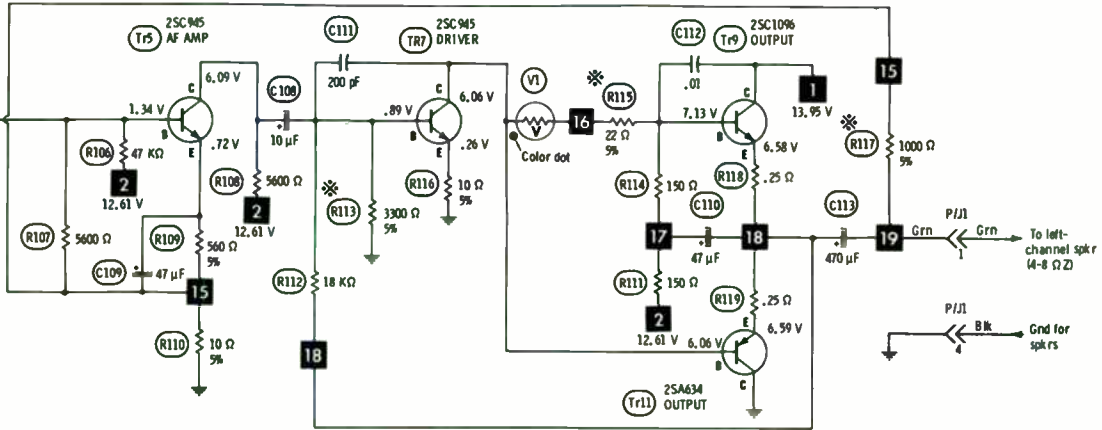
Supply voltage maintained as shown of input.  
 Voltages measured with digital meter, no signal.  
 Controls adjusted for normal operation.  
 Arrow of control indicates direction of advance.  
 Terminal identification may not be found on unit.  
 Resistors are 1/2W or less, 5% unless noted.  
 Value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

A PHOTOFACIT STANDARD NOTATION SCHEMATIC  
 WITH **CIRCUITRACE**

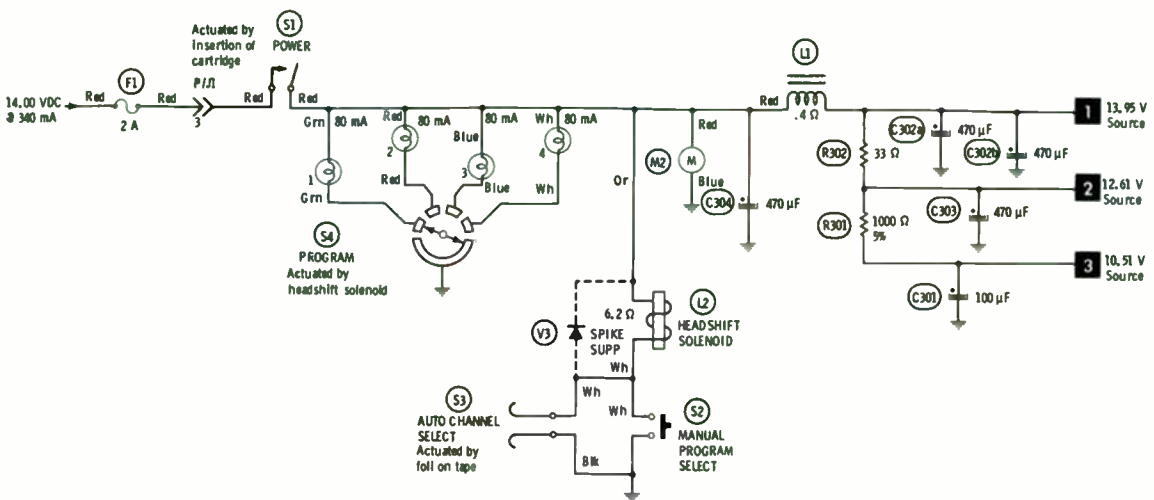
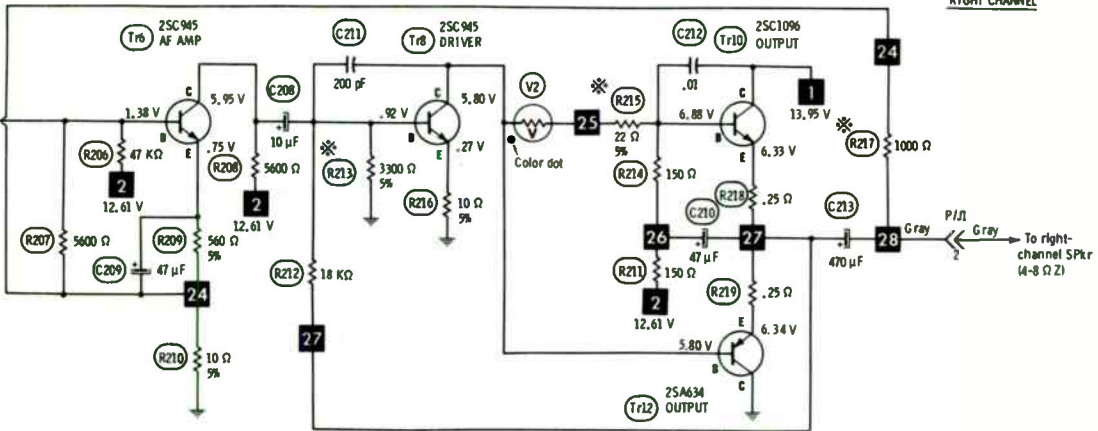
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LEFT CHANNEL



RIGHT CHANNEL



## 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 Soms 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.
VR1a	Volume - Left	10K					
b	Volume - Right	10K					
VR2a	Tone - Left	10K					
b	Tone - Right	10K					
VR3	Balance	10K					

### 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.	
L1	340mA	.4	3.5mH				

### 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	2 Amp			AGC2	HDJ	312002	150145	FG2-2

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
L2	Solenoid		Headshift
M1	Tape Head		8-Track Stereo Play
M2	Motor		Tape Transport (2000 rpm @ 14.00V DC)
S1	Switch		Power
S2	Switch		Manual Program Selector
S3	Switch		Automatic Program Selector
S4	Switch		Program Indicator

### 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

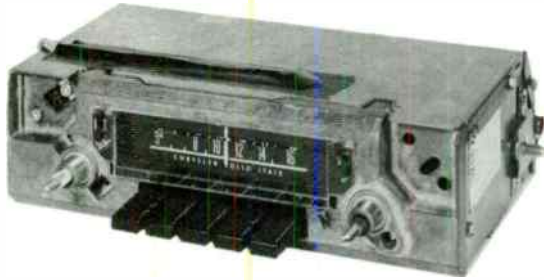


# PHOTOFACT<sup>®</sup> with

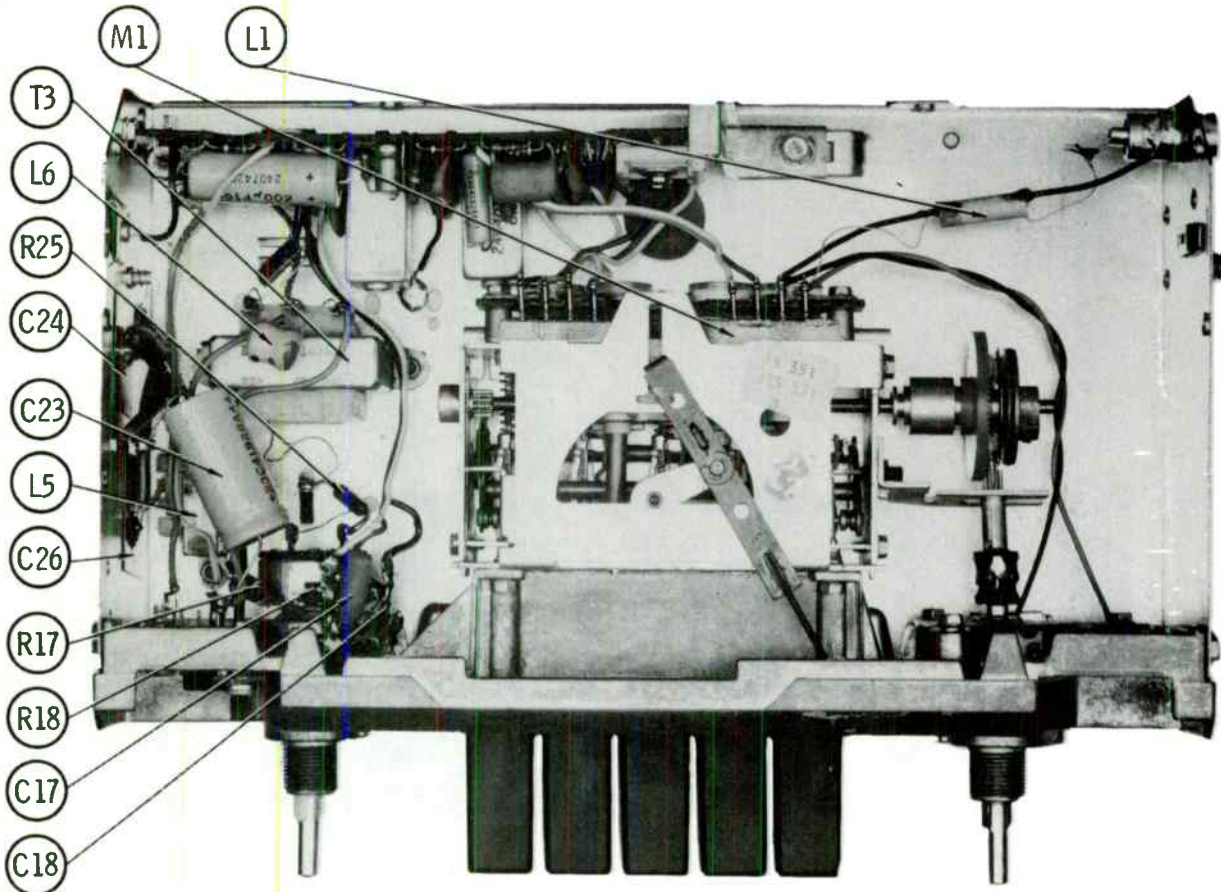
**CIRCUITRACE<sup>®</sup>**

For Supplier Address See PHOTOFACT Index

NOTE: Manufacturer Part Numbers Shown Are MOTOROLA



MODELS 2CH1605, 5CH1605  
(76 Dodge Demon, Swinger)  
(76 Plymouth Duster, Scamp, Valiant)



DODGE/PLYMOUTH MODELS 2CH1605, 5CH1605

CHASSIS-TOP VIEW

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

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6AG918

## ALIGNMENT INSTRUCTIONS

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

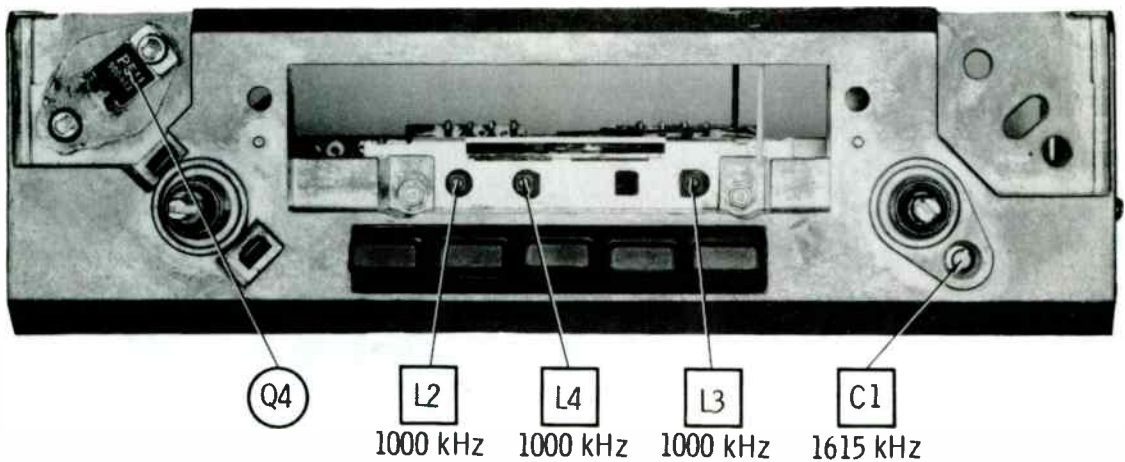
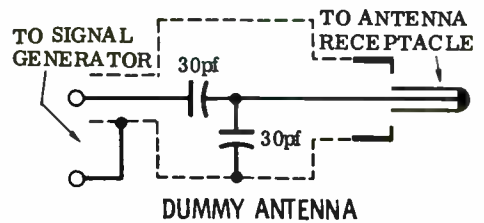
Suggested Alignment Tools: GC Electronics:  
T1,T2.....9296,9297,9300  
C1,C5.....8290,8868,9087

### PUSH-BUTTON ADJUSTMENT

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

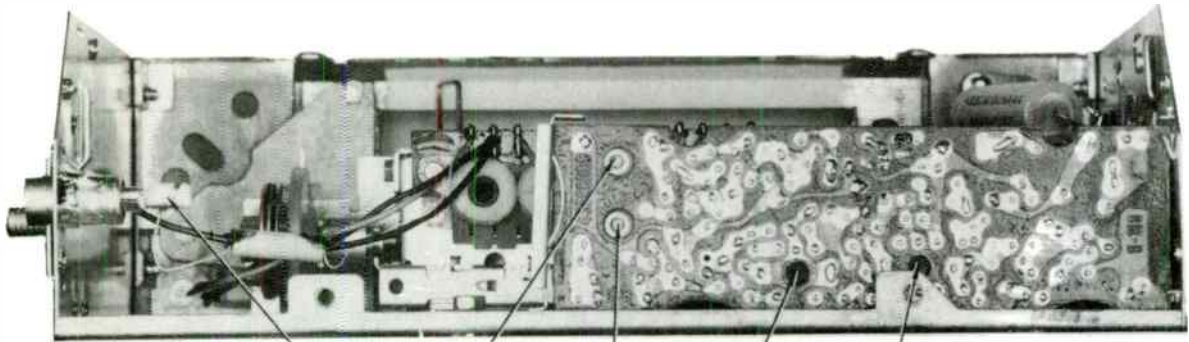
GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to point low side to ground.	262kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T2, T1	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C5B,C5A, C1	"
Tuner alignment is not necessary unless associated components have been disturbed. If necessary, back tuning cores L2, L3, L4 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.	L2,L3, L4	Adjust for maximum. Repeat alignment until no further improvement is noted.

With radio installed in car and antenna extended to desired height, tune in a weak station near 1400kHz and adjust C1 for maximum output. Antenna adjustment C1 is located behind tuning and dummy knobs.



CHASSIS-FRONT VIEW

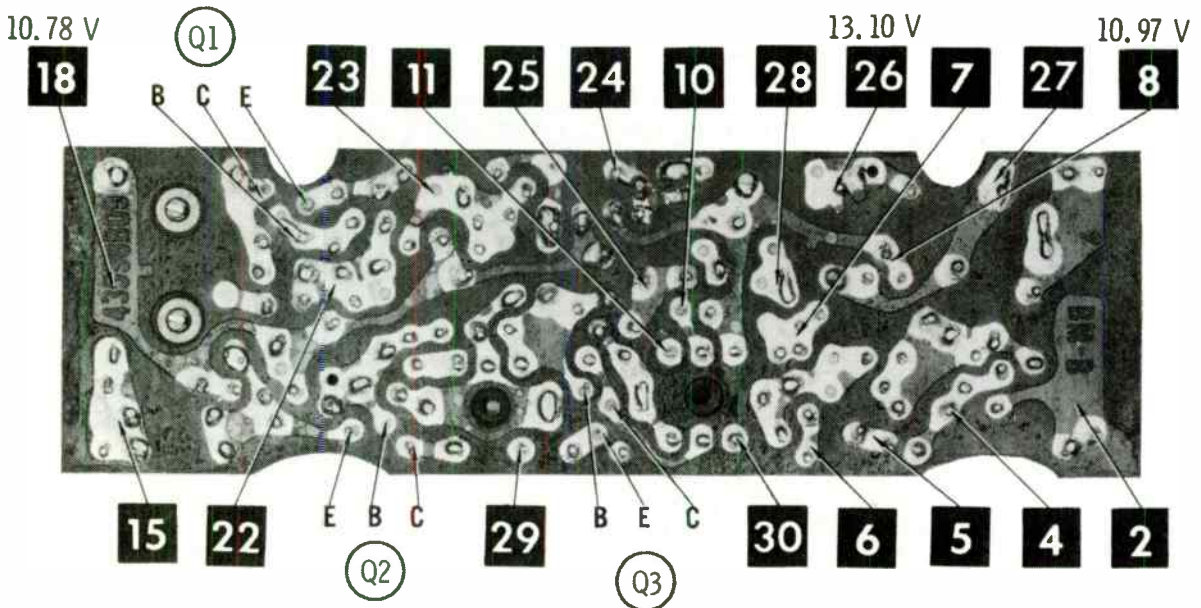




- A
- C5A  
1615 kHz
- C5B  
1615 kHz
- T1  
262 kHz
- T2  
262 kHz

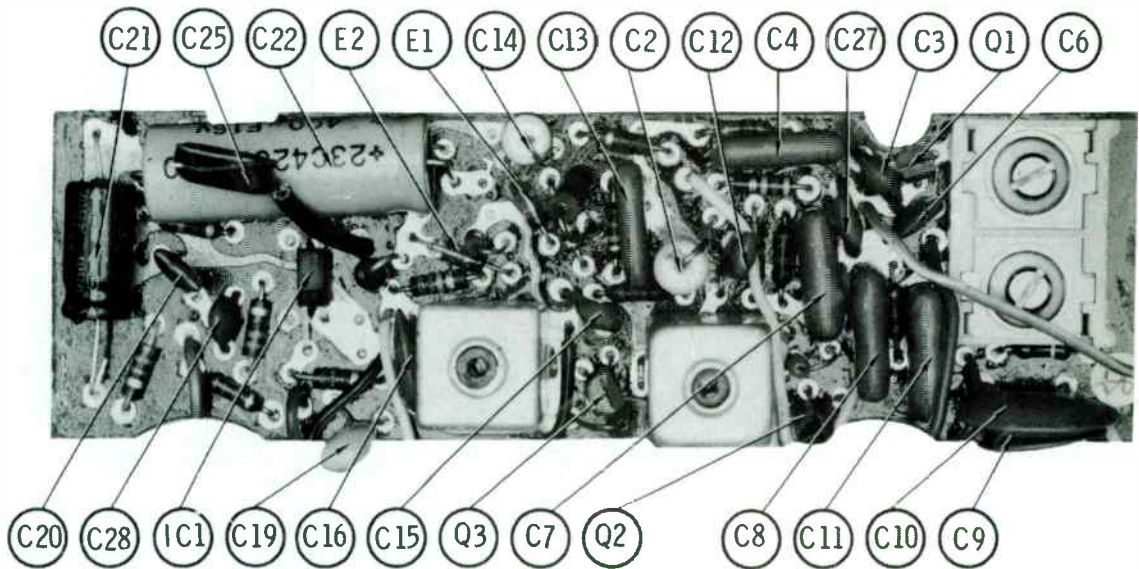
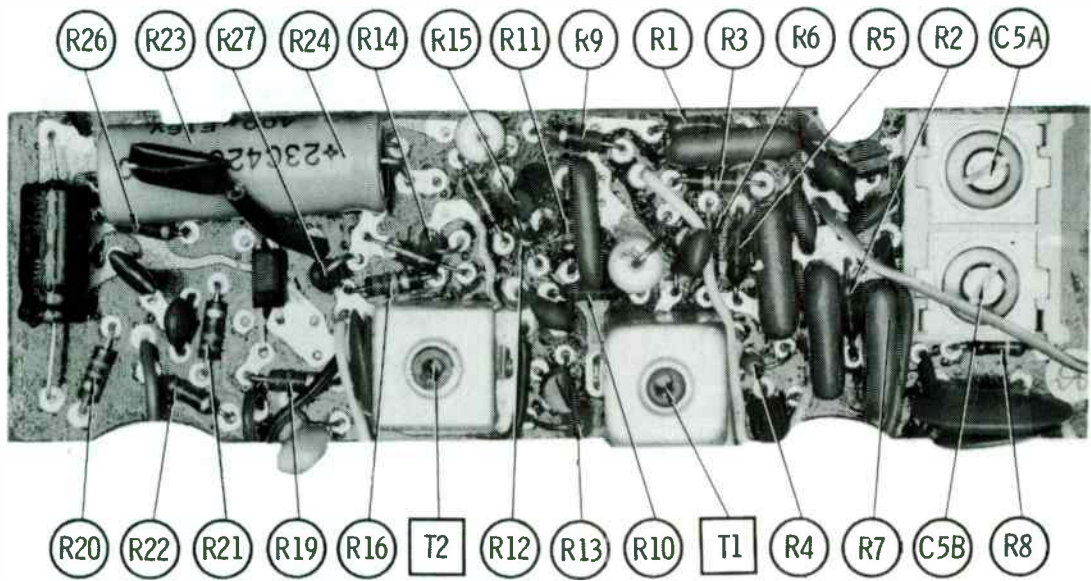
### CHASSIS-REAR VIEW

A Howard W. Sams **CIRCUITRACE** Photo



### MAIN BOARD-BOTTOM VIEW

DODGE/PLYMOUTH MODELS 2CH1605, 5CH1605



MAIN BOARD-TOP VIEW

## 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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
E1	1N139	48-137495	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
E2	1N139	48-137495	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
IC1	MFC4050	51-10534A03								ECG755
Q1	25B2	48-137351	GE-20	TR-21	PTC136	HEPS0025	RE 10	SK3018	RT-107	ECG229
Q2	25A2	48-137350	GE-20	TR-21	PTC136	HEPS0025	RE 13	SK3018	RT-107	ECG123A
Q3	54B	48-134810	GE-20	TR-21	PTC136	HEPS0015	RE 13	SK3124	RT-172	ECG123A
Q4	PSH	48-137540	GE-69	TR-77	PTC111		RE 22	SK3083	RT-155	ECG153

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C2	32 10V	23-41928A33	WBR35-50	TT10X30A	TVA-1129.92
C12	1 15V	23-43280A17		TDC105M035EL	SD35-19
C14	10 16V	23-42674B31	WBR10-25	TT15X10	TVA-1145
C17	1 15V	24-43280A01		TDC105M035EL	SD35-19
C18	.1 15V	23-43280A14		TDC104M050EL	SD50-R109
C19	.5 15V	23-43280A21		TDC474M050EL	SD50-R479
C21	100 10V	23-42674B09	WBR100-16	MTA100E10	TVA-1130
C22	400 16V	23-42674B10	WBR500-16	TC1505C	TVA-1162
C23	1000 16V	23-41928A44	WBR1000-16	TC1501C	TVA-1163

## CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALLAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	75-350	20-42152A03				
C3	680 10%		DD-681	GP680	GP368	10TS-T68
C4	.0047 10%			DPMS6D47	EWF1A247	1PB-D47
C5A	375-450	20-42280801				
B	45-160					
C6	150 N750 5%		DTN-150	N150	CN7315	10TCU-T15
C7	.01			DPMS4S1	EWF1A110	1PB-S10
C8	.0047 10%			DPMS6D47	EWF1A247	1PB-D47
C9	160 NPO 5%		DTZ-150		CN0315	10TCC-T15
C10	180 N330 5%				*	10TCS-T18
C11	.0047 10%			DPMS6D47	EWF1A247	1PB-D47
C13	.0015 10%			DPMS6D15	EWF6215	6PS-D15
C15	330 10%		DD-331	GP330	GP333	10TS-T33
C16	.005		DC-502	GP5000	TA250	25S-D50
C20	.02			DPMS2S2	PVC212	2PS-S20
C24	.3	64-561876				
C25	.02			DPMS2S2	PVC212	2PS-S20
C26	.3	64-561876				
C27	33 N750 10%		DTN-33	N33	CN7433	10TCU-Q33
C28	10 NPO 10%		DTZ-10	NP010	CN0410	10TCC-Q10

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALLAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R18	Tone Volume/Switch	50K 10K Tap 2500	18-43217B16 18843217B16 (5)	F1-50K (18) R12-10K, FFS106, RFS114, KR4		P54L (18) RU14T53, OX1375 (19) IS1875, US41	

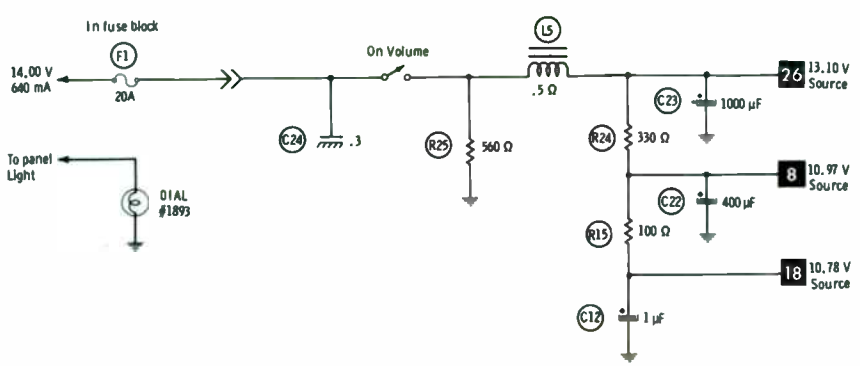
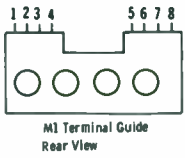
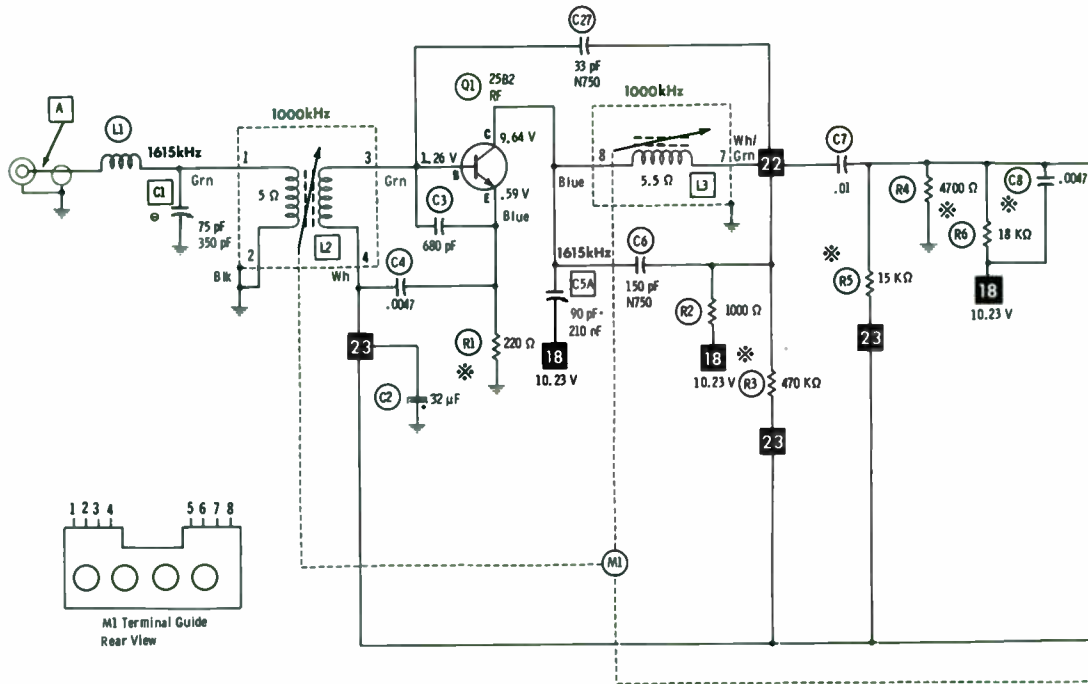
(5) Number on unit.

(18) Use original spring mounting clips.

(19) Enlarge slot of outer shaft to duplicate original before assembly.

CONTINUED ON PAGE 62.

DODGE/PLYMOUTH MODELS 2CH1605, 5CH1605

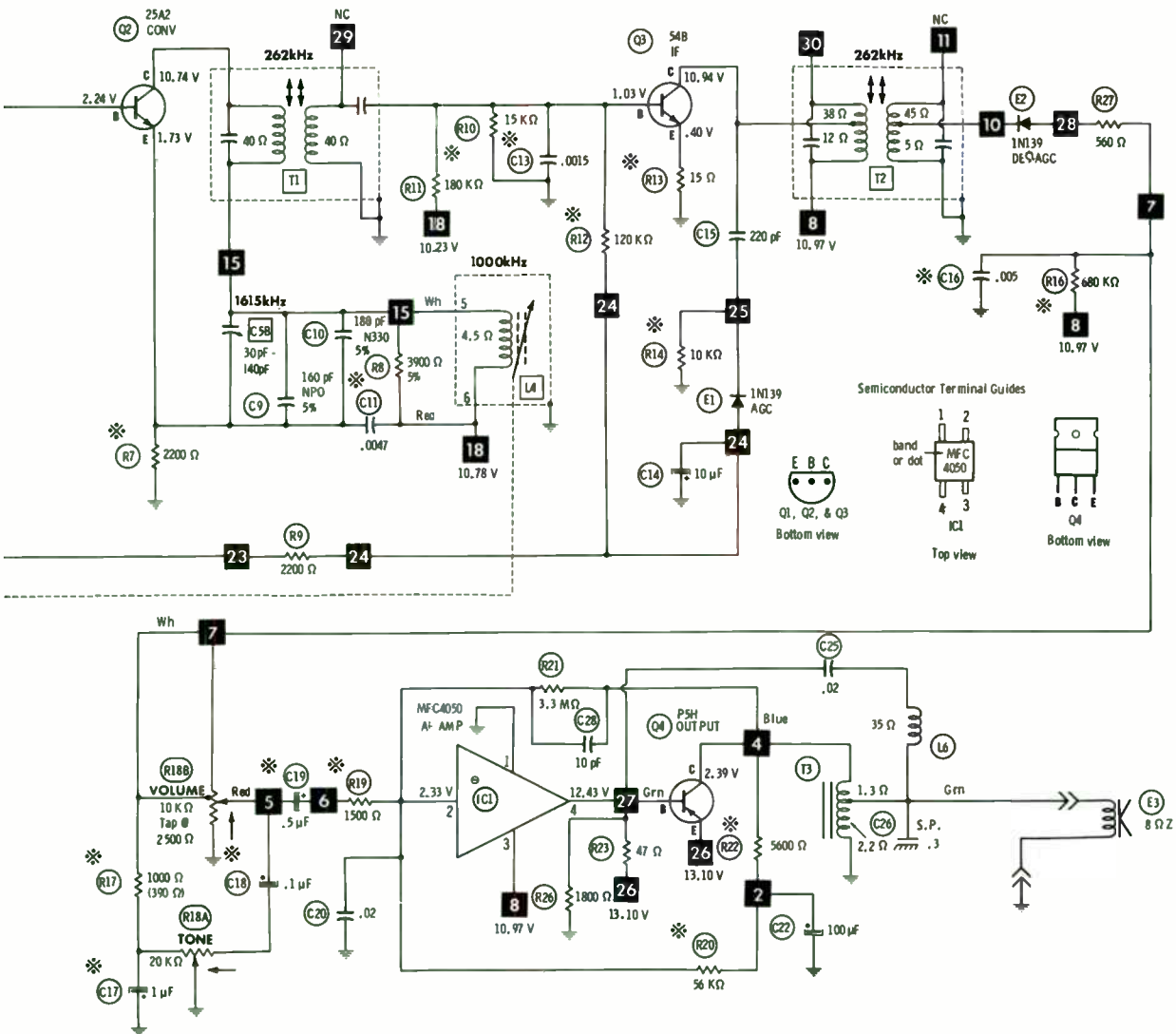


- ✖ Circuitry not used in some versions
  - Circuitry used in some versions
  - See ports list
  - ✱ Nominal value
  - ⊥ Ground
  - ⏏ Chassis
  - ▽ Common tie point
- Measurements with switching as shown unless noted:  
 Supply voltage maintained as shown at input.  
 Voltages measured with digital meter, no signal.  
 Controls adjusted for normal operation.  
 Arrow of control indicates direction of advance.  
 Terminal identification may not be found on unit.  
 Resistors are 1/2W or less, 10% unless noted.  
 Value in ( ) used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC  
 WITH CIRCUITRACE

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## 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	RF Choke (2uH)	24-40788A12		4604	(1) Part of M1
L2	Ant	(1)			
L3	RF	(1)			
L4	Osc	(1)			
L6	RF Choke	24-41605B01		6304	
T1	IF (262kHz)	24-40310B13			
T2	IF (262kHz)	24-40310B04		8010	

### SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
E3	4" X 10" PM 8 Ohms	50-42282C01		

### 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	640mA	.5	11mH	25-43869B24	TR-157	TY17XT	

### TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE	REPLACEMENT DATA			NOTES
	PRI.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	20 Tap @ 8	25-40782C08			

### 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	SFE20		In Fuse Block	SFE20		307020		

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1	Tuner Coil Assembly	77-41900C73 1-42902B13	AS-351

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

ITEM	PART No.	ITEM	PART No.
Escutcheon	13-40566C02	Pushbutton	38-43192B01
Dial Glass	61-40038F01	Knob, Volume or Tuning	36-41636C01
Dial Pointer	52-40281C03	Knob, Tone or Dummy	36-41637C01

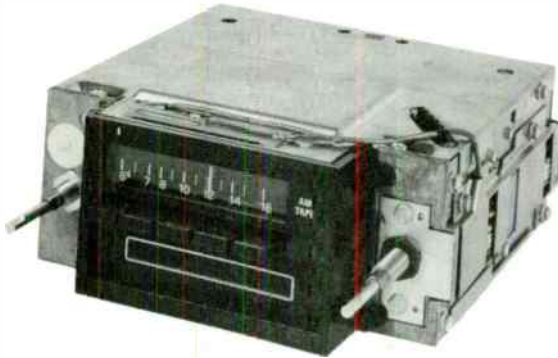


# PHOTOFACT<sup>®</sup> with

# CIRCUITRACE<sup>®</sup>

For Supplier Address See PHOTOFACT Index

NOTE: Manufacturer Part Numbers Shown Are MOTOROLA



MODELS 1FD4607, 2FD4607 (D6ZA-19A242-AA)  
 (76 Ford Granada, Mustang)  
 (76 Mercury Monarch)  
 1FD4608, 2FD4608 (D6BA-19A242-AA)  
 (76 Ford Maverick)  
 (76 Mercury Comet)  
 1PN4605 (D6EA-19A242-AA)  
 (76 Ford Pinto)

## 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 (40) dirty, worn, or broken. Assembly (17A) binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch (E7) dirty. Cam (80) binding or worn. Pawls (75) and (76) worn. Spring (74) weak or broken. Assembly (54) binding. Solenoid (E6) defective or not supplied with power. Cartridge defective.
Wow or flutter	Belt (40) 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.

FORD/MERCURY MODEL 1FD4608

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6AH909

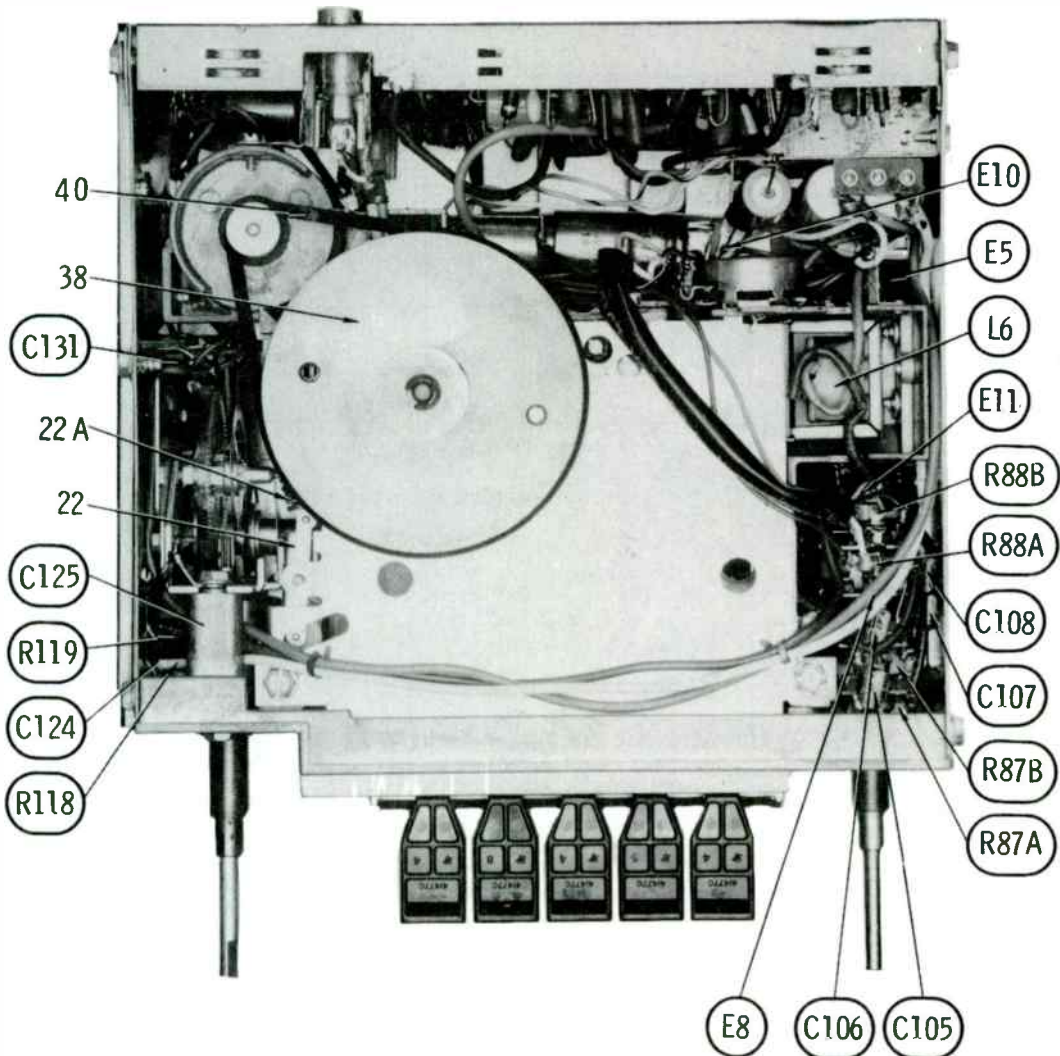
## MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
17A	(3)	Flywheel Housing Assembly	57	41-40597C03	Azimuth Spring
22	1-42099C88	Cartridge Detent Arm	58	41-42018C01	Head Tension Spring
22A	(1)	Detent Spring	72	1-42099C89	Plunger Assembly
38	49-40260F01	Flywheel	74	41-40681B03	Pawl Spring
40	42-42561C01	Flywheel Drive Belt	75	(2)	Push Pawl
51	46-40255F01	Tape Stripper	76	(2)	Pull Pawl
54	46-40295F03	Head Shifting Assembly	77	41-41251B08	Head Lifting Spring
56	46-40294F01	Head Clamp	80	1-43353A83	Track Changing Cam

- (1) Part of Assembly Number 22.  
 (2) Part of Assembly Number 72.  
 (3) Part of Chassis.

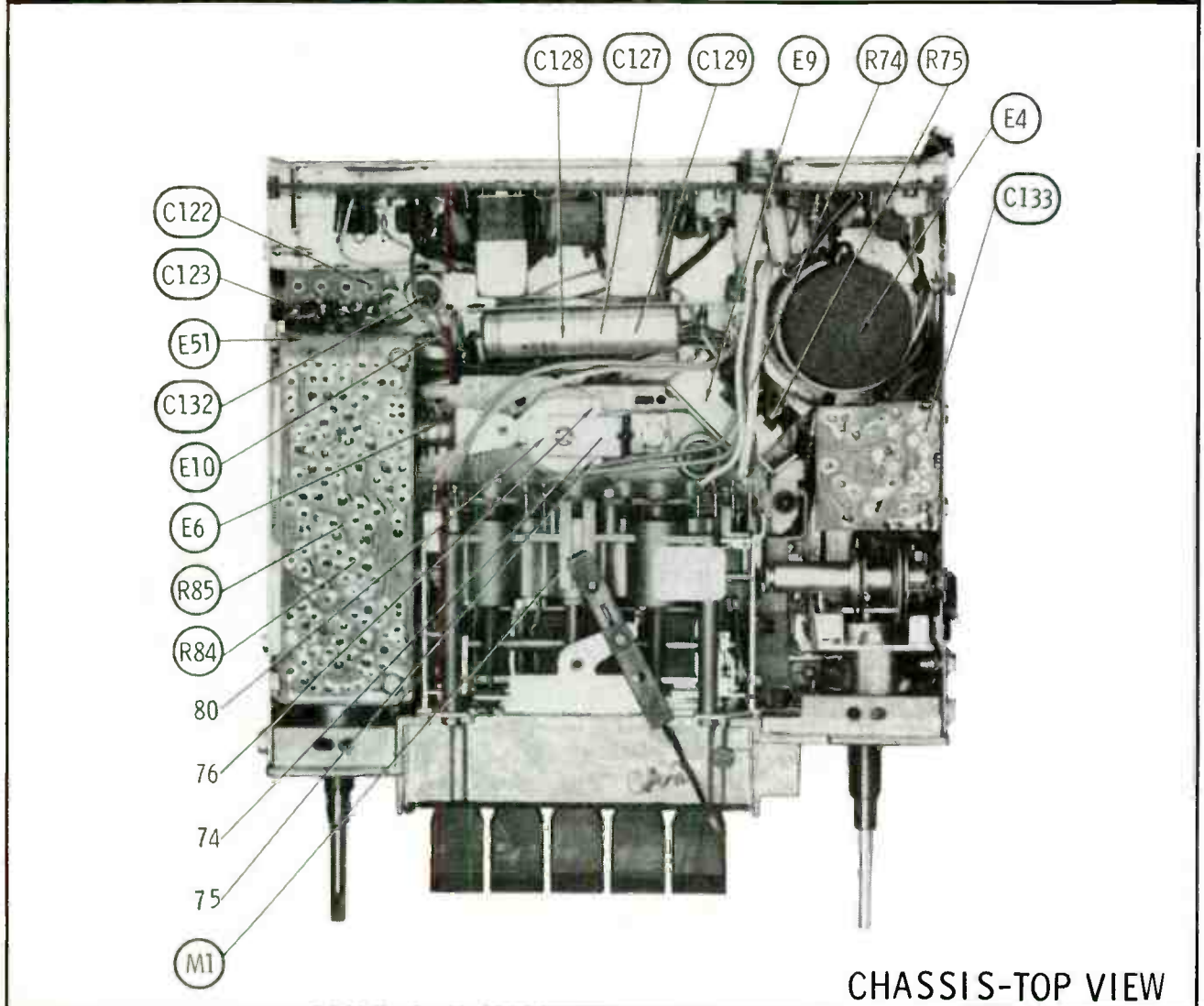
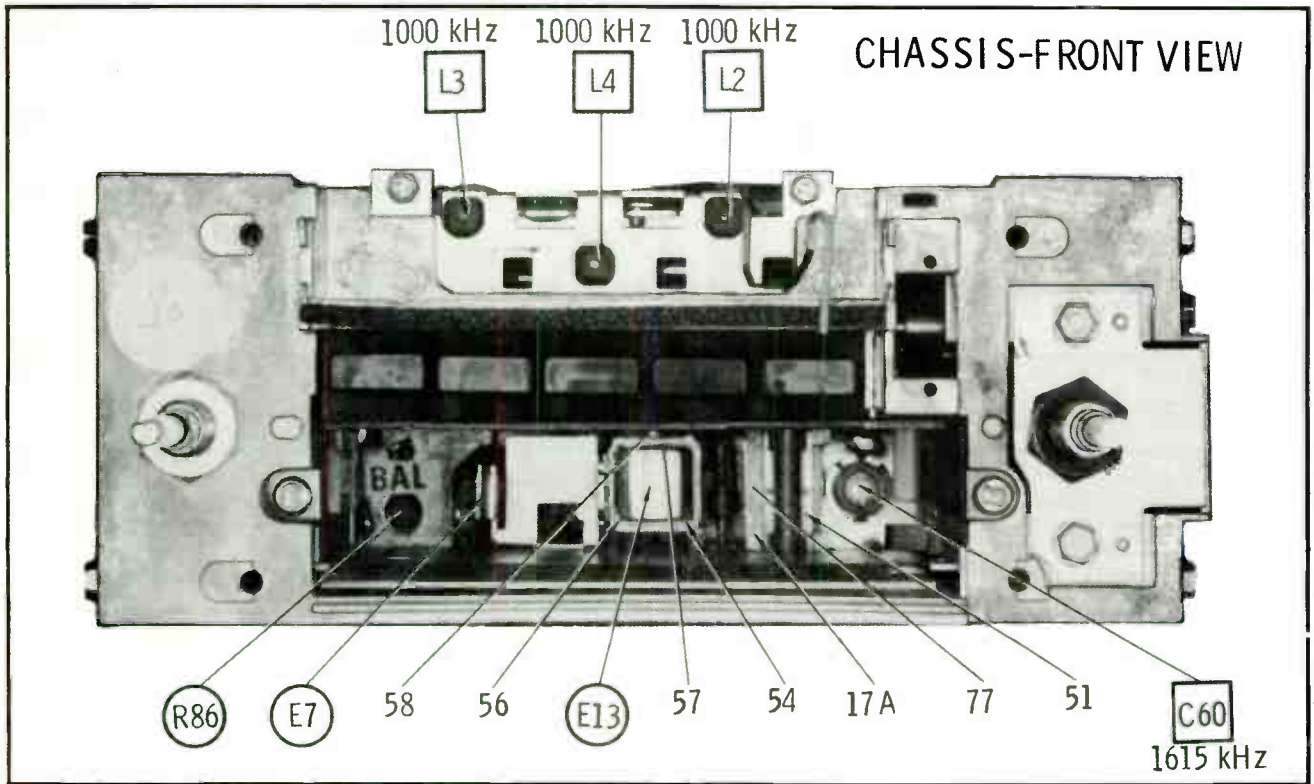
## CLEANING LUBRICATING HEAD DEMAGNETIZING

Refer to  
 "General Servicing Information"  
 on page 4.



CHASSIS-BOTTOM VIEW





FORD/MERCURY MODEL 1FD4608

## ALIGNMENT INSTRUCTIONS

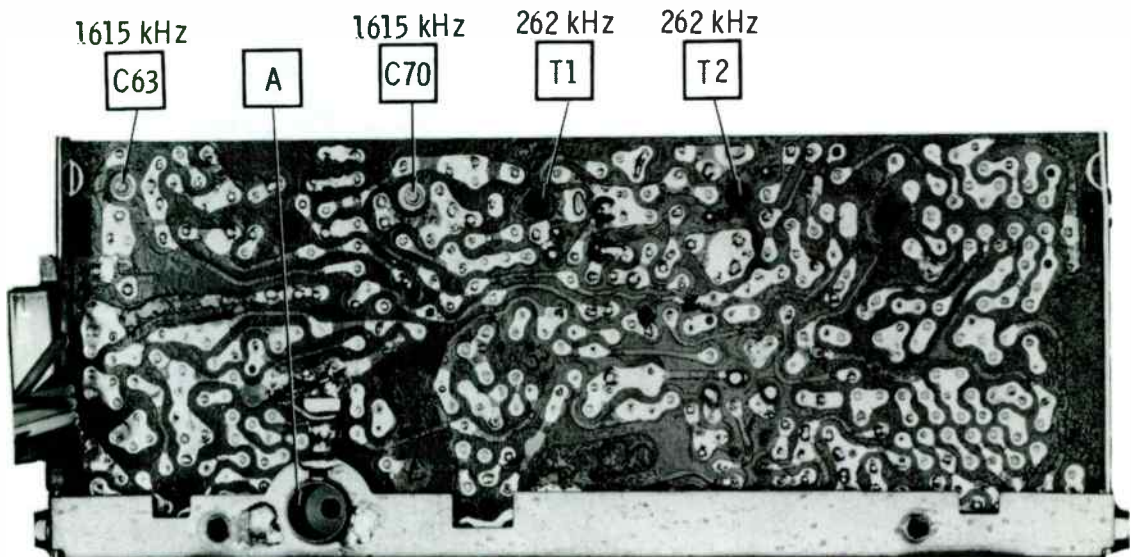
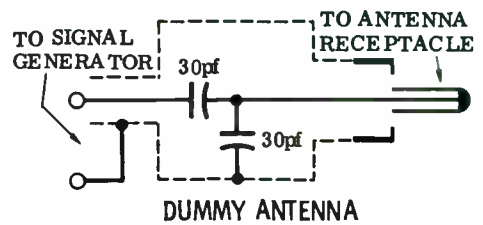
Check for specified source voltage.  
 Use only enough generator output  
 to provide a usable indication.  
 Suggested Alignment Tools: GC ELECTRONICS  
 T1, T2 ..... 9296, 9297, 9300  
 C60, C63, C70 ..... 8290, 8868, 9087

### PUSH-BUTTON ADJUSTMENT

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

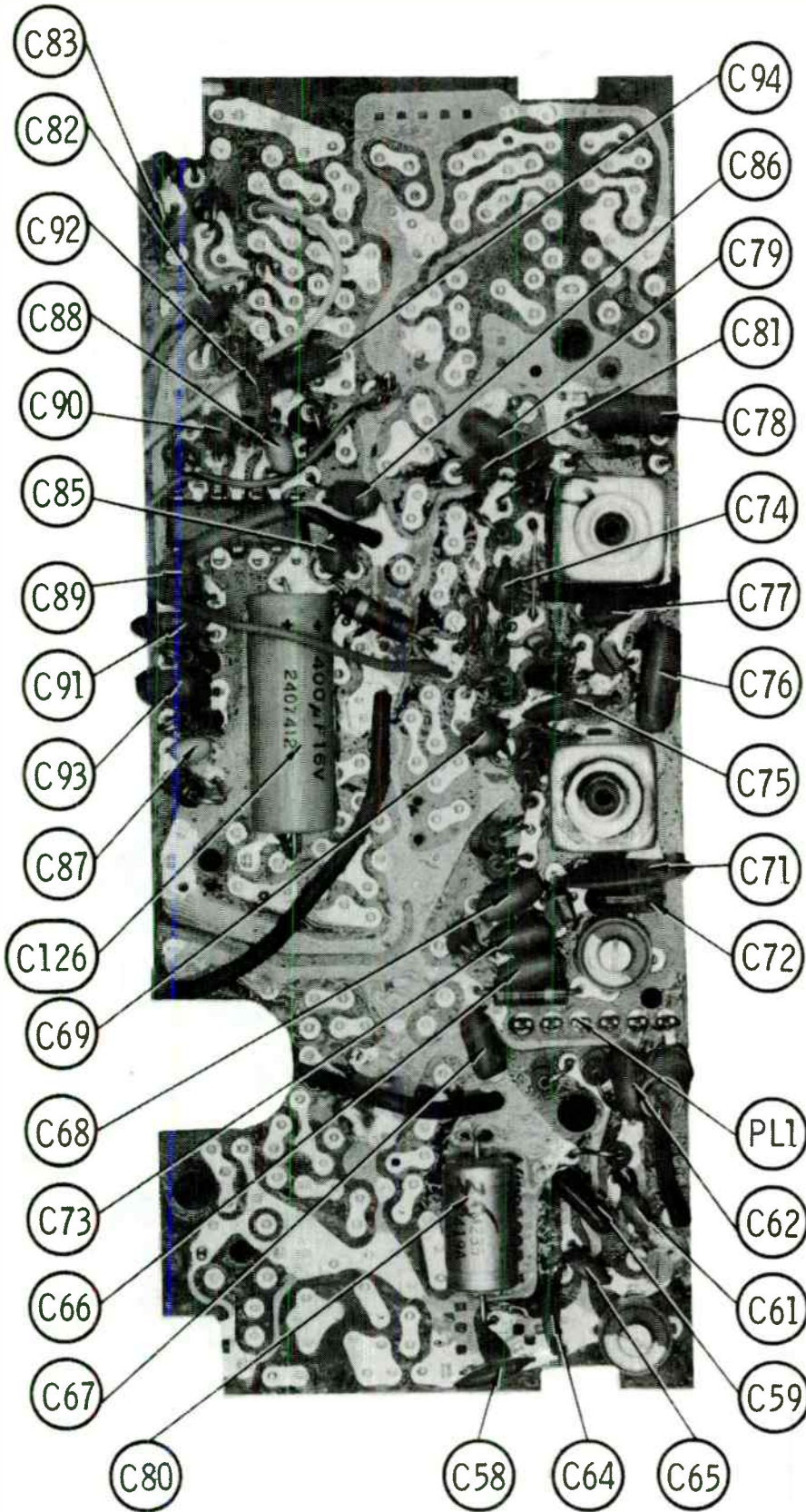
GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to point A, low side to ground.	262kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T2,T1	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C70,C63, C60	"
Tuner alignment is not necessary unless associated components have been disturbed. If necessary, back tuning cores L2, L3, L4 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.	L4,L3, L2	Adjust for maximum. Repeat alignment until no further improvement is noted.

With radio installed in car and antenna extended to desired height, tune in a weak station near 1400kHz and adjust C60 for maximum output. Antenna adjustment C60 is located inside tape door, right rear corner.

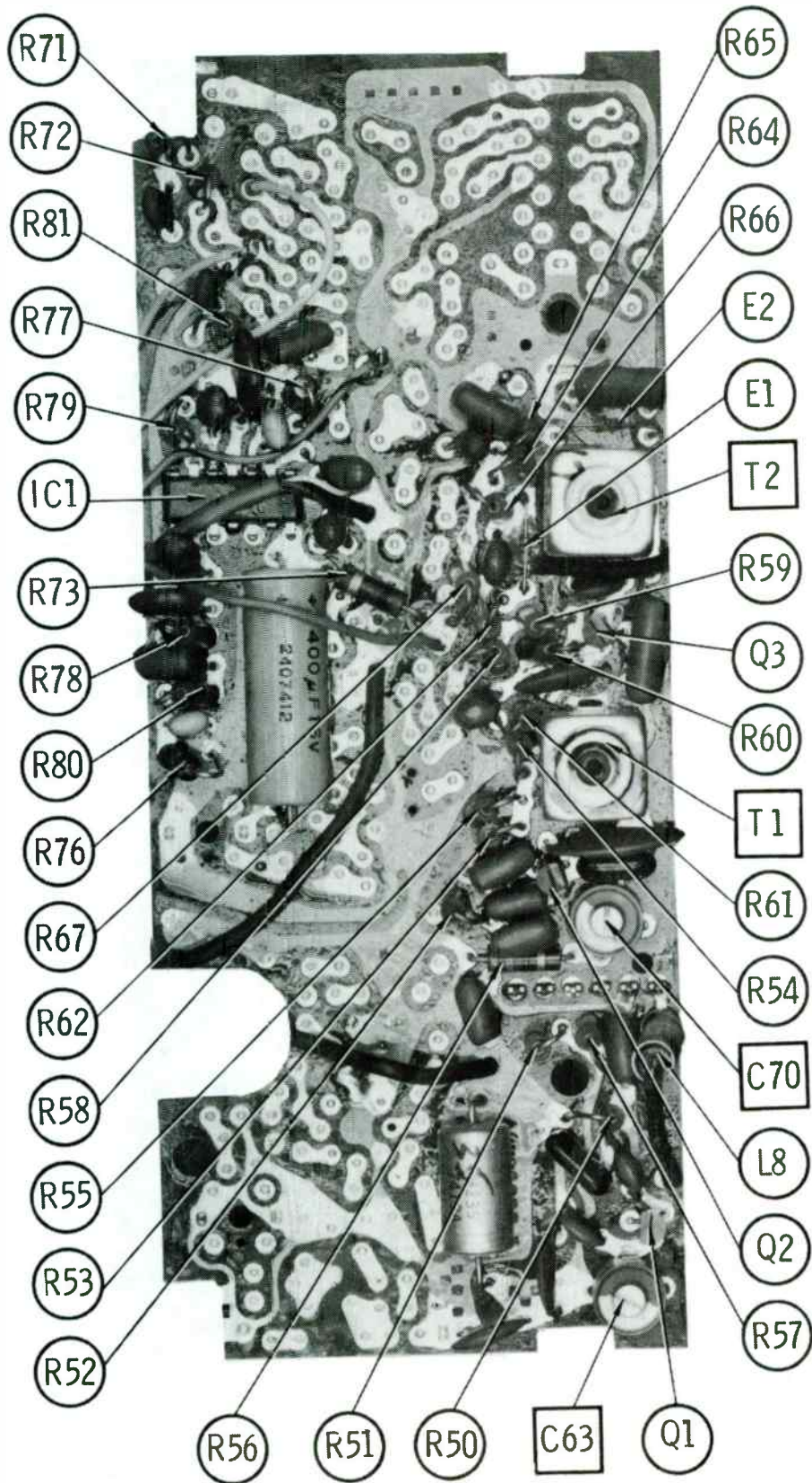


CHASSIS-REAR VIEW



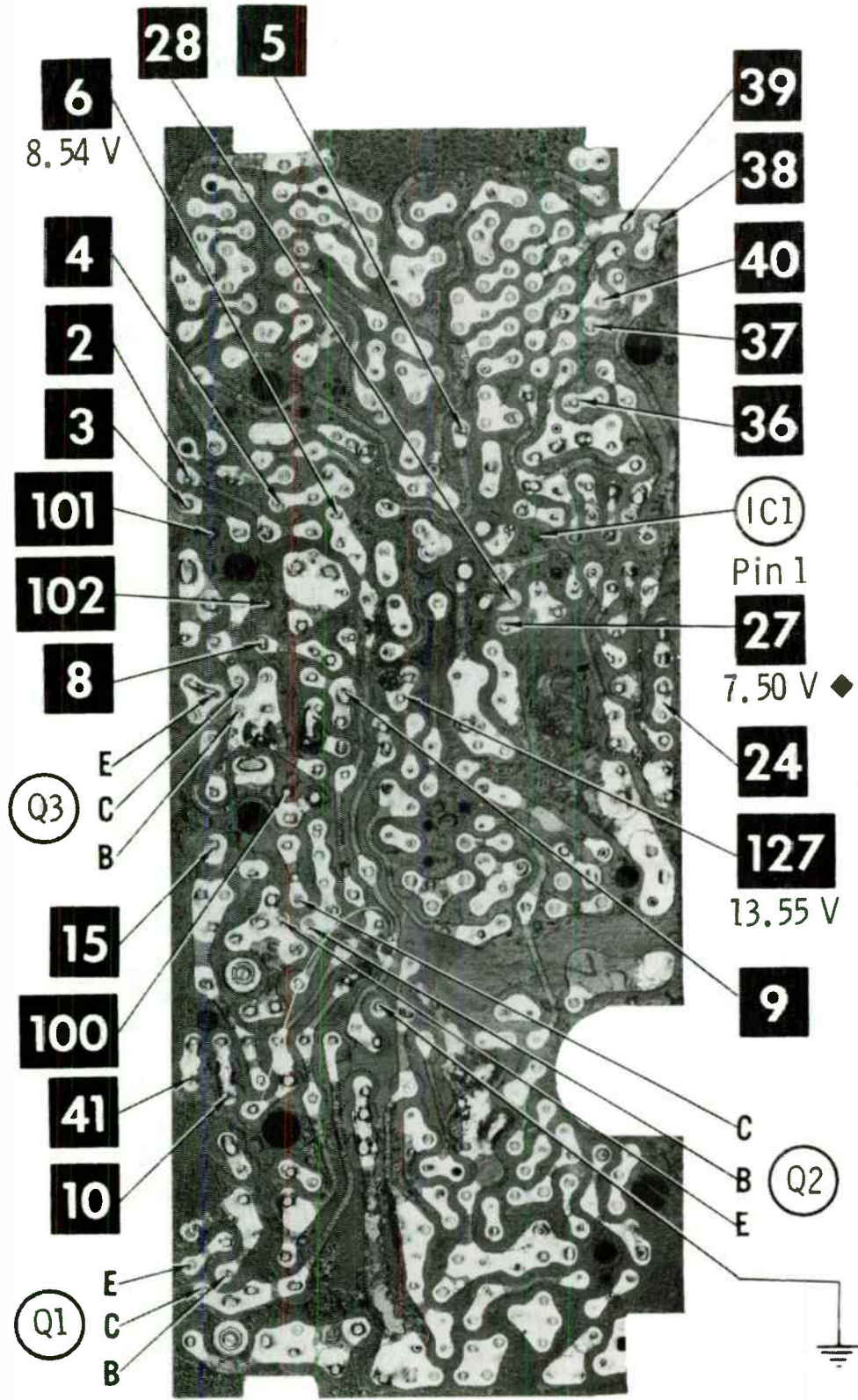


AM/TAPE PREAMP BOARD-TOP VIEW



AM/TAPE PREAMP BOARD-TOP VIEW

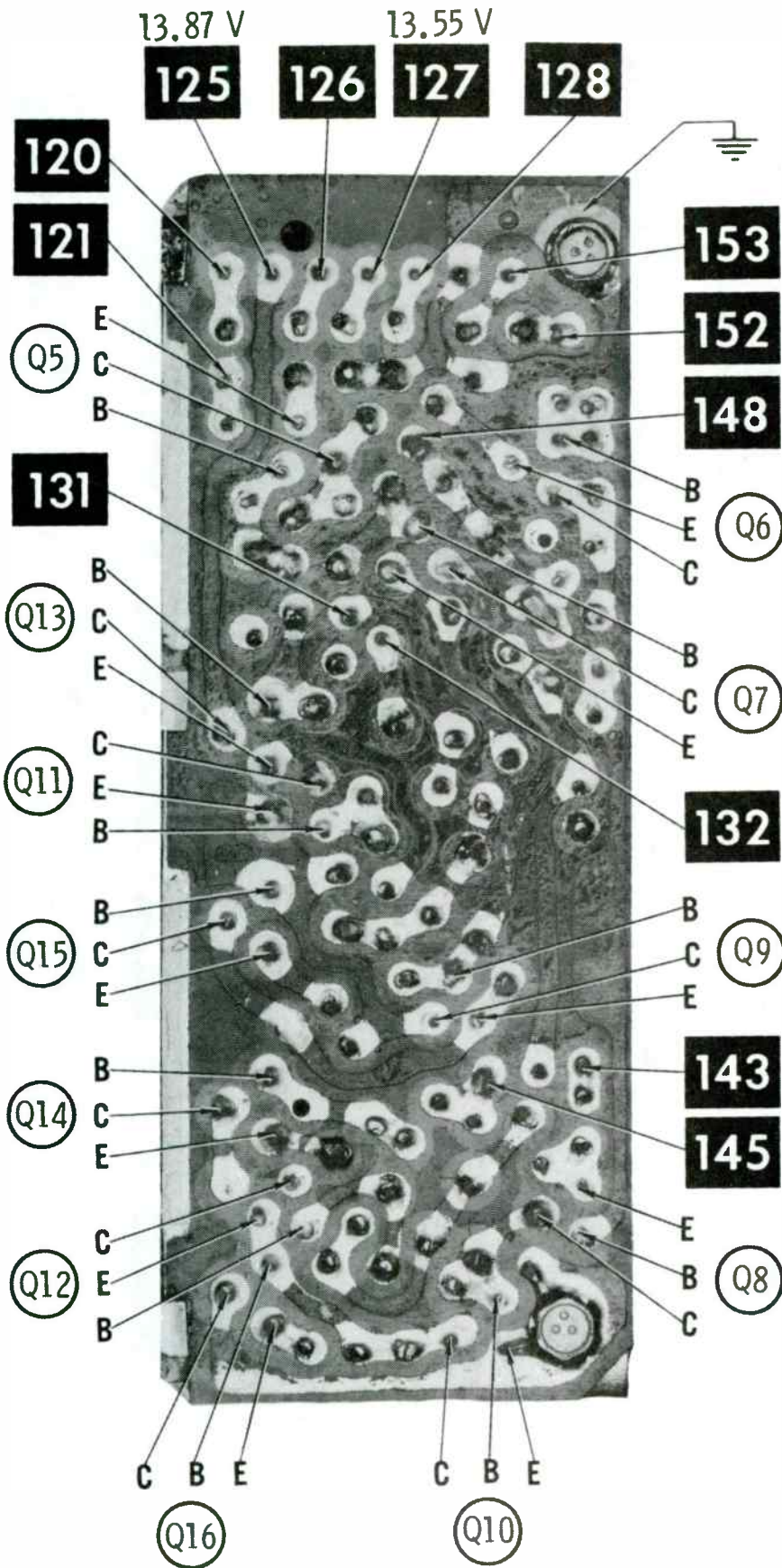




◆ Tape

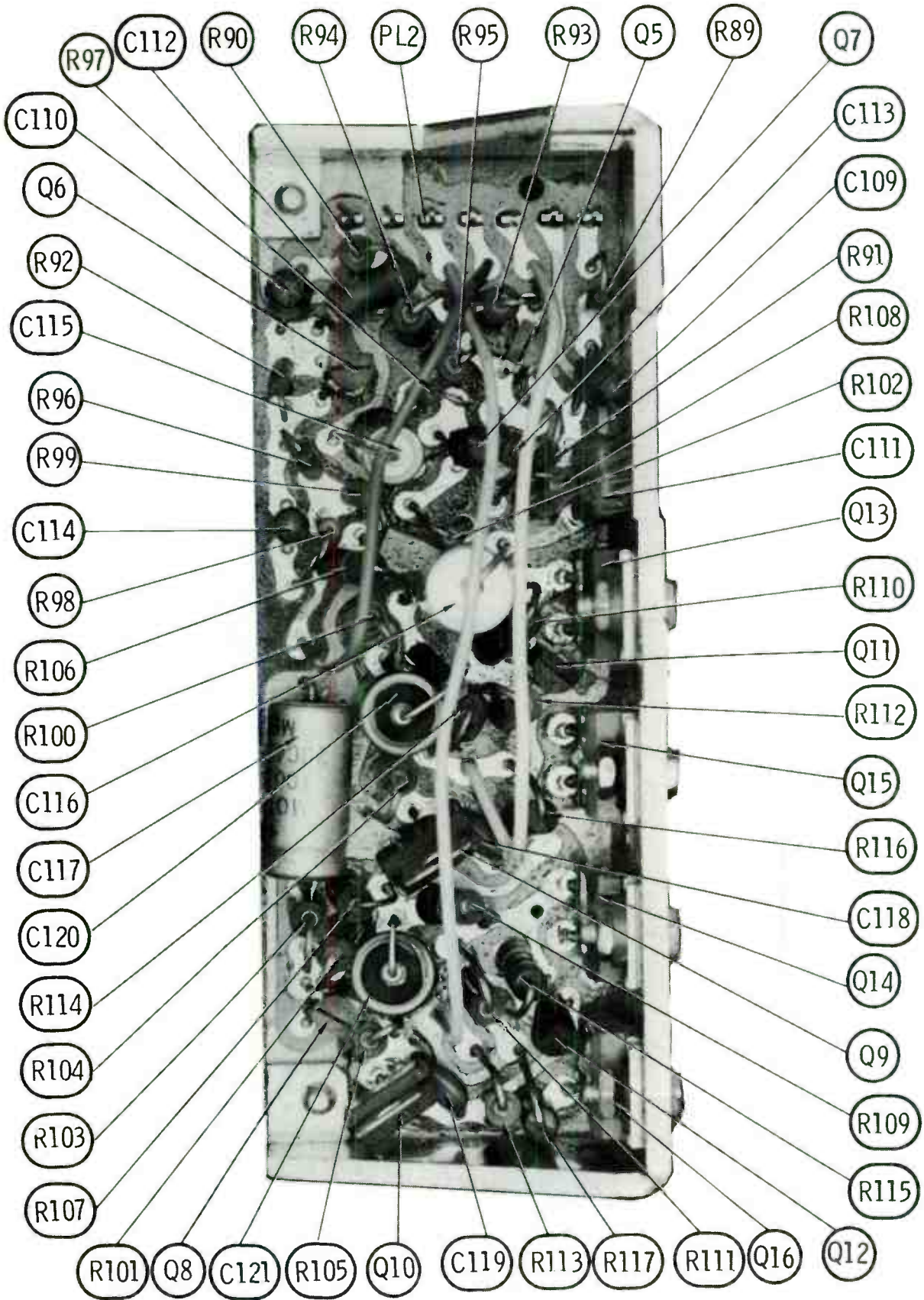
AM/TAPE PREAMP BOARD-BOTTOM VIEW

FORD/MERCURY MODEL 1FD4608

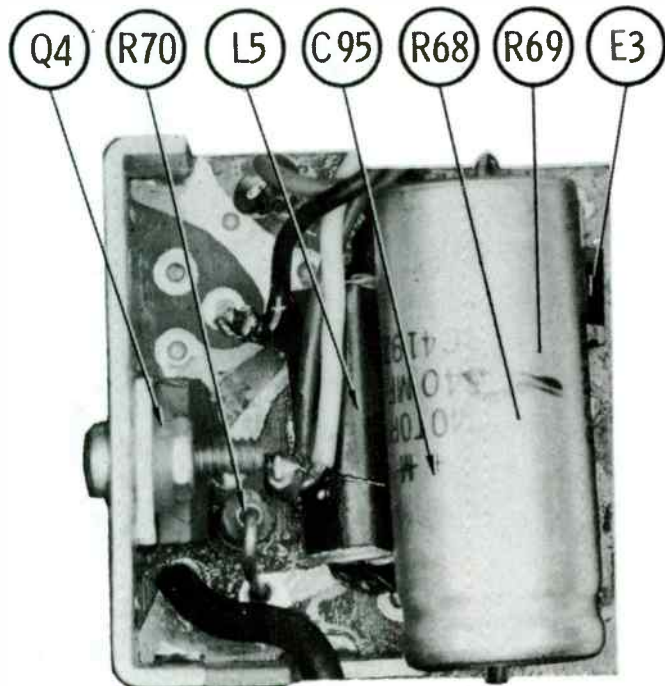
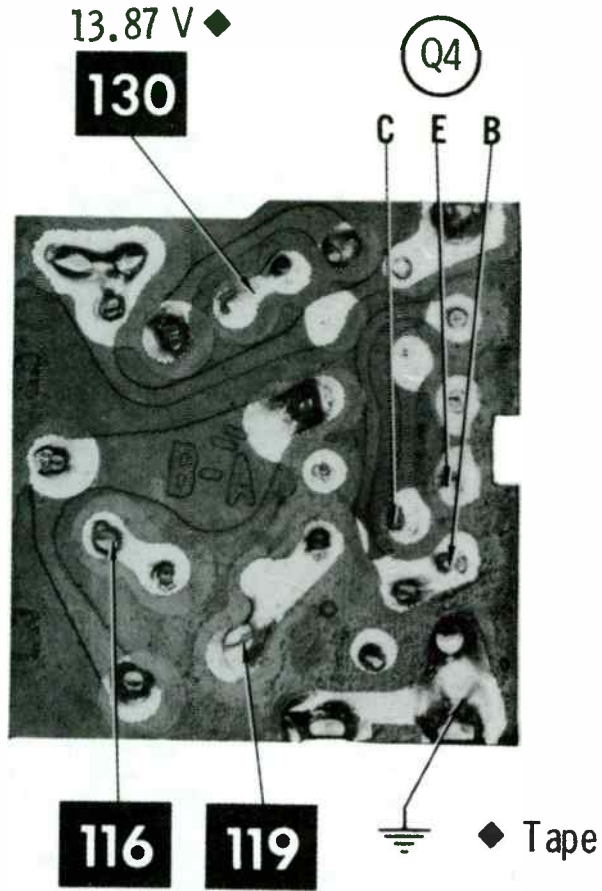


AUDIO BOARD-BOTTOM VIEW





AUDIO BOARD-TOP VIEW

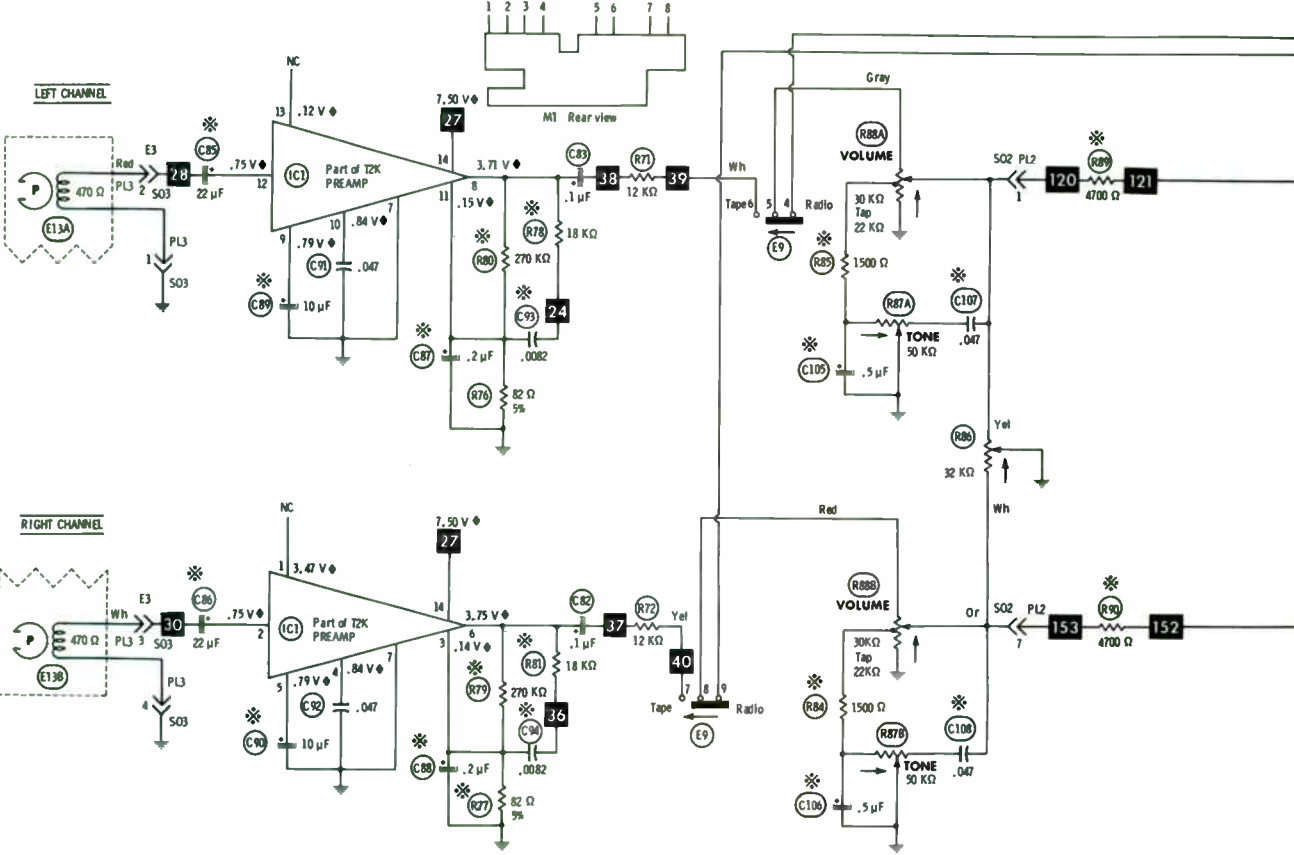
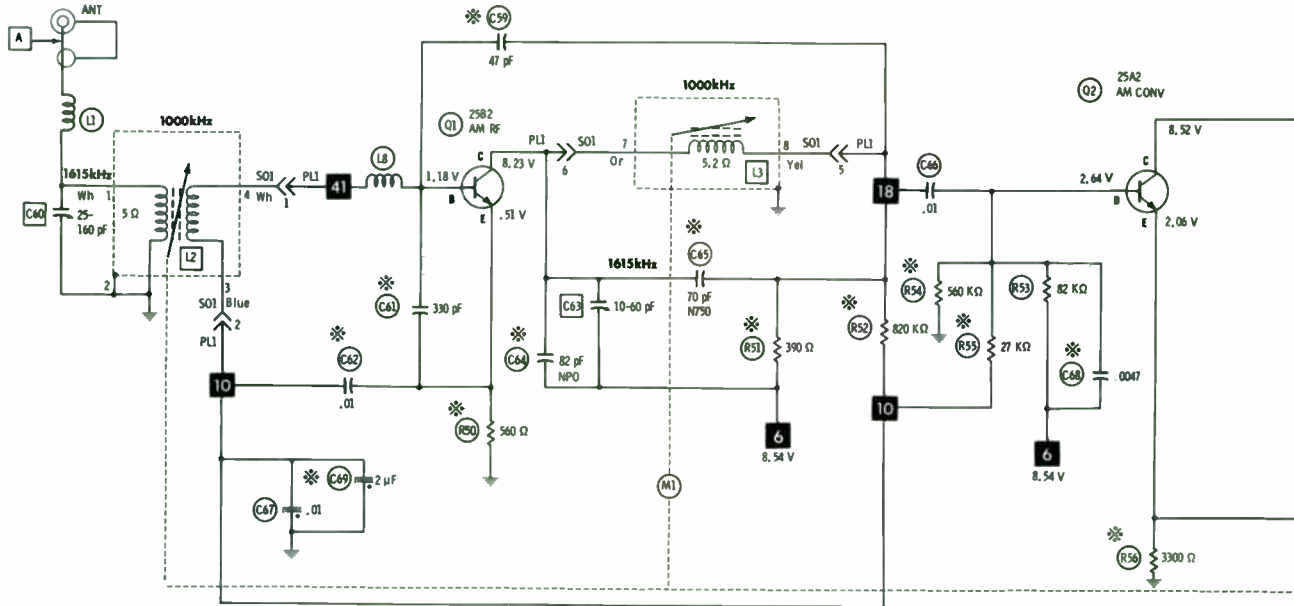


REG BOARD





**NOTE: DEMAGNETIZE HEADS AFTER SERVICING**



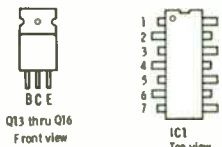
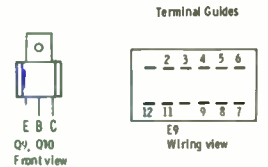
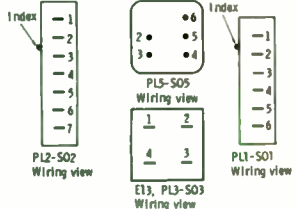
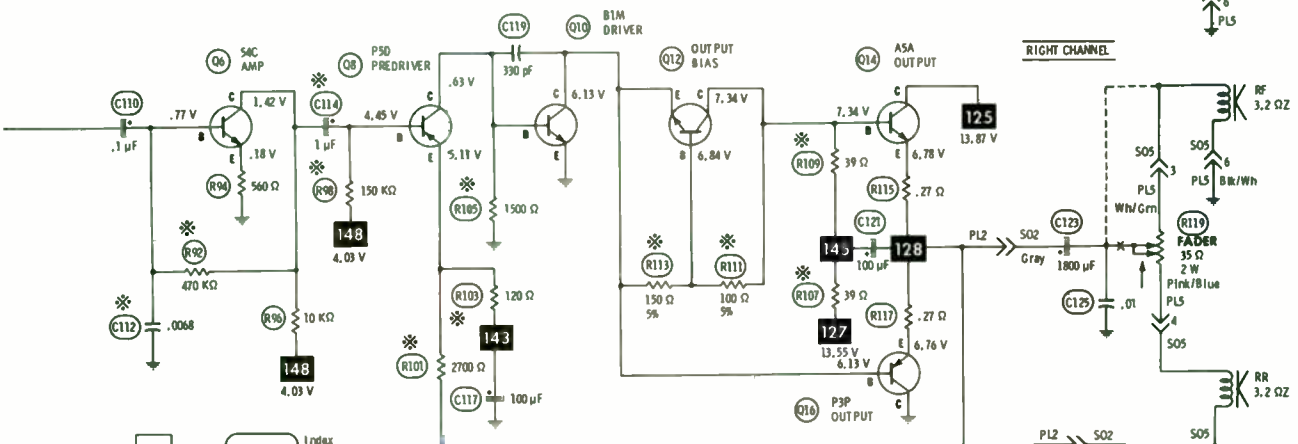
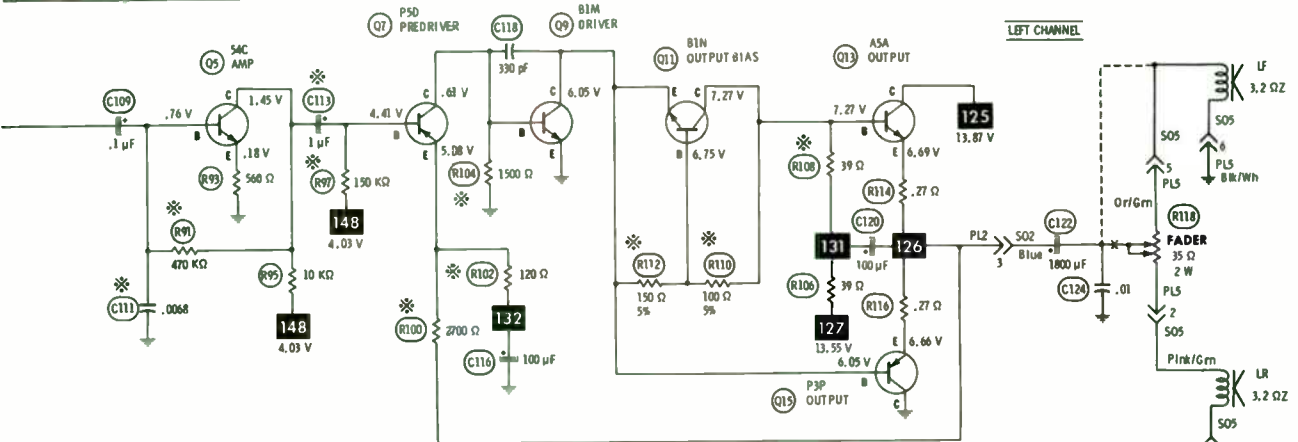
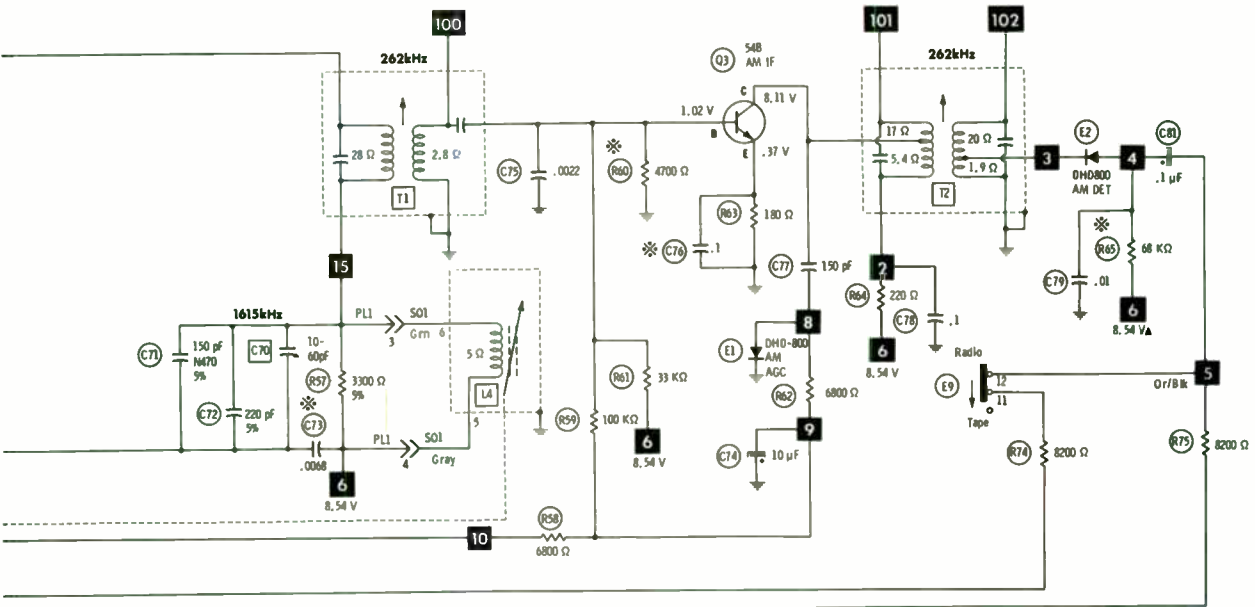
- Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- \* Nominal value
- ⊕ Ground
- ⊞ Chassis
- ▽ Common tie point

Measurements with switching as shown unless noted:  
 ◆ Tone play      ▲ AM  
 Supply voltage maintained as shown of 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, 10% unless noted.  
 Value in ( ) used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE**

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# 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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
E1	DHD800	48-134816	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
E2	DHD800	48-134816	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
E3	D2H	48-137029	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
E5	D2H	48-137029	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
E10	D2H	48-137029	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
IC1	T2K	51-10634A01				HEPC6087P				
Q1	25B2	48-137351	GE-20	TR-21	PTC136	HEPS0025	RE 10	SK3018	RT-107	ECG229
Q2	25A2	48-137350	GE-20	TR-21	PTC136	HEPS0025	RE 13	SK3018	RT-107	ECG123A
Q3	54B	48-134809	GE-20	TR-21	PTC136	HEPS0015	RE 13	SK3124	RT-172	ECG123A
Q4	A9V	48-137437	GE-66	TR-76	PTC110	HEPS5000	RE 21	SK3054	RT-152	ECG152
Q5	54C	48-134810	GE-20	TR-21	PTC136	HEPS0016	RE 13	SK3124	RT-172	ECG123A
Q6	54C	48-134810	GE-20	TR-21	PTC136	HEPS0016	RE 13	SK3124	RT-172	ECG123A
Q7	P5D	48-137504	GE-65	TR-52	PTC103		RE 26	SK3118	RT-120	ECG159
Q8	P5D	48-137504	GE-65	TR-52	PTC103		RE 26	SK3118	RT-120	ECG159
Q9	B1M	48-137505	GE-217	TR-72	PTC144	HEPS3020	RE 75	SK3054	RT-186	ECG188
Q10	B1M	48-137505	GE-217	TR-72	PTC144	HEPS3020	RE 75	SK3054	RT-186	ECG188
Q11	B1N	48-137509	GE-20	TR-51	PTC139	HEPS0024	RE 192	SK3122	RT-172	ECG199
Q12	B1N	48-137509	GE-20	TR-51	PTC139	HEPS0024	RE 192	SK3122	RT-172	ECG199
Q13	A5A	48-137080(5)	GE-66	TR-76	PTC110		RE 21	SK3054	RT-152	ECG152
Q14	A5A	48-137080(5)	GE-66	TR-76	PTC110		RE 21	SK3054	RT-152	ECG152
Q15	P3P	48-137259(5)	GE-69	TR-77	PTC111		RE 22	SK3083	RT-153	ECG153
Q16	P3P	48-137259(5)	GE-69	TR-77	PTC111		RE 22	SK3083	RT-153	ECG153

(5) Half of complementary pair.

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C69	2 10V	23-43280A02			SD35-2R29
C74	10 6V	23-43280A34			SD20-109
C80	125 16V	23-41928A38	WBR150-35		TVA-1160.2
C81	.1 15V	23-43280A20			SD50-R109
C82	.1 15V	23-43280A20			SD50-R109
C83	.1 15V	23-43280A20			SD50-R109
C85	22 25V	23-42674B20			SD25-229
C86	22 25V	23-42674B20			SD25-229
C87	.2 15V	23-43280A33			SD50-R229
C88	.2 15V	23-43280A33			SD50-R229
C89	10 6V	23-43280A34			SD20-109
C90	10 6V	23-43280A34			SD20-109
C95	680 15V	23-41928A43	WBR500-16		TVA-1162.2
C105	.5 15V	23-43280A25	PC1-50		EV-1310
C106	.5 15V	23-43280A25	PC1-50		EV-1310
C109	.1 15V	23-43280A15			SD50-R109
C110	.1 15V	23-43280A15			SD50-R109
C113	.1 15V	23-43280A01			SD35-19
C114	.1 15V	23-43280A01			SD35-19
C115	47 10V	23-42674B23	PC50-25		EV-1326
C116	100 10V	23-42674B44	WBR100-16		TVA-1130
C117	100 10V	23-42674B44	WBR100-16		TVA-1130
C120	100 10V	23-42674B38	WBR100-16		TVA-1130
C121	100 10V	23-42674B38	WBR100-16		TVA-1130
C122	1800 16V	23-42674B22	WBR2000-16		TVA-1170
C123	1800 16V	23-42674B22	WBR2000-16		TVA-1170
C126	400 16V	23-42674B10	WBR500-16		TVA-1161.5
C127	1800 16V	23-42674B22	WBR2000-16		TVA-1170
C128	1800 16V	23-42674B22	WBR2000-16		TVA-1170
C129	1000 16V	23-41928A44	WBR1000-16		TVA-1163
C132	400 16V	23-42674B10	WBR500-16		TVA-1161.5



# 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 Soms 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.
C58	.01		DC-103	GP10000	MAG5011	2SS-S10
C59	47 N220 10%	21-43539A24			*	10TCR-Q47
C60	25-160pF	20-40746A21				
C61	330 10%		DD-331	GP330	GP333	10TS-T33
C62	.01		DC-103	GP10000	MAG5011	2SS-S10
C63	10-60pF	20-43646801				
C64	82 NPO 5%		DTZ-82	NP082	CN0482	10TCC-Q82
C65	70 N750 5%		DTN-68	N68	CN7468	10TCU-Q68
C66	.01		DC-103	GP10000	MAG5011	2SS-S10
C67	.01		DC-103	GP10000	MAG5011	2SS-S10
C68	.0047		DD-472	GP4700	GP247	2SS-D47
C70	10-60pF	20-43646801				
C71	150 N470 5%				*	10TCT-T15
C72	220 5%			CD10FD221J03	SX322	424ME2200J501
C73	.0068		DD-682	GP6800	GP268	10TS-D68
C75	.0022 10%	21-180C08			GP222	10TS-D22
C76	.1		DC-104	MGP1	MAG5001	TG-P10
C77	150 10%		DTZ-150		CN0315	10TCC-T15
C78	.1		DC-104	MGP1	MAG5001	TG-P10
C79	.01		DC-103	GP10000	MAG5011	2SS-S10
C91	.047 10%			DPMS2S47	EPWF1A147	1P8-S47
C92	.047 10%			DPMS2S47	EPWF1A147	1P8-S47
C93	.0082 10%			DPMS6D82	EPWF1A282	1P8-D82
C94	.0082 10%			DPMS6D82	EPWF1A282	1P8-D82
C96	.1 10%			DPMS2P1	EPWF1A010	1P8-P10
C107	.047 10%			DPMS2S47	EPWF1A147	1P8-S47
C108	.047 10%			DPMS2S47	EPWF1A147	1P8-S47
C111	.0068 10%			DPMS6D68	EPWF1A268	1P8-D68
C112	.0068 10%			DPMS6D68	EPWF1A268	1P8-D68
C118	330 10%		DD-331	GP330	GP333	10TS-T33
C119	330 10%		DD-331	GP330	GP333	10TS-T33
C124	.01		DC-103	GP10000	MAG5011	2SS-S10
C125	.01		DC-103	GP10000	MAG5011	2SS-S10
C130	.01	(1)	DC-103	GP10000	MAG5011	2SS-S10
C131	.01		DC-103	GP10000	MAG5011	2SS-S10
C133	.001		DD-102	GP1000	GP210	2SS-D10

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

(1) Used in some sets.

FORD/MERCURY MODEL 1FD4608

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R86	Balance	32K	18-40221F01 (19)	F1-50K,AK-38	A47-30K-S,TT-2 or [NP-30K-S,TT-2]	RU34L,SL37 or [P353L,SLF37]	8U11,CF12
	Balance	32K	18840221F01(5) 18-43944C01 (18)				
R87A	Tone-Left	50K	18-41849811 (19)				
R87B	Tone-Right/Manual Program Switch	50K	18C41849811(5)				
R88A	Volume-Left	30K Tap 22K					
R88B	Volume-Right/On-Off Switch	30K Tap 22K					
	Tone-Left	50K	18-41849816 (18)				
	Tone-Right/Manual Program Switch	50K					
	Volume-Left	30K Tap 22K					
	Volume-Right/On-Off Switch	30K Tap 22K					
R118	Fader-Left	35 2W	18-41053C01 (19)				
R119	Fader-Right	35 2W	18C41053C01(5)				

(5) Number on unit.

(18) Used in Model 1PN4605.

(19) Used in Models 1/2FD4607 and 1/2FD4608.

## 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	Ant. Choke (1.5uH)	24-40788A04		4604	(1) Part of M1 (Tuner).
L2	Antenna	(1)			
L3	RF	(1)			
L4	Oscillator	(1)			
L5	RF Choke	1-43900C93			
L8	RF Choke	1-43700C12			
T1	IF (262kHz)	24-40310B15	24D40310B17		
T2	IF (262kHz)	24-40310B16	24D40310B18		

### 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	SFE20		In Fuse Block	SFE20		307020		

### 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.	
L6	500mA	.1	3mH	25-41269C11			(1) Used in Models 1/2FD4607, 1/2FD4608. (2) Used in Model 1PN4605.
L7	500mA	.5	1.5mH	30-42401C04 (1) 30-42401C02 (2)			

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
E4	Motor	59-43663B06	Tape Transport (3000 rpm @ 7.00V DC) Headshift Auto Program (Part of Tape Guide) Tape/Radio 8-Track Stereo Play Coils and Mounting Plate IF Audio Amp Motor Speed Control IF Board Audio Board
E6	Solenoid	24-42064B06	
E7	Switch	1-43803C01	
E9	Switch	40-41363B08	
E13	Tape Head	59-43641A02	
M1	Tuning Coil Assembly	1-40099E73	
	Printed Circuit Board	1-42300C98	
	Printed Circuit Board	1-43300C10	
	Printed Circuit Board	1-42200C46	
	Connector	30-41860C02	
	Connector	30-41860C01	

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

ITEM	PART No.	ITEM	PART No.
Escutcheon	13-43993C01 (1)	Pushbuttons, Tuning	38-41477C01
Escutcheon	13-43993C02 (2)	Cable, Antenna	30-43847C01 (3)
Dial Pointer Assembly	52-40281C04		

- (1) Model 1PN4605, includes tape door and dial scale.  
 (2) Models 1/2FD4607 and 1/2FD4608, includes tape door and dial scale.  
 (3) Models 1/2FD4608.



For Supplier Address See PHOTOFACT Index



MODEL 5FM216

MOTOROLA MODEL 5FM216A

## ALIGNMENT INSTRUCTIONS

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

GC ELECTRONICS:

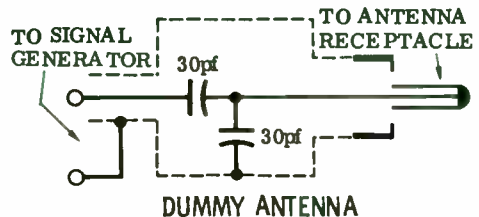
ALL ..... 8290, 8868, 9087

### 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.	T4, T3	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C68, C63, C59	"
Tuner alignment is not necessary unless associated components have been disturbed. If necessary, back tuning cores L7, L8, L9 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.	L9, L8, L7	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 C59 for maximum output. Antenna adjustment C59 is located on rear right bottom corner.



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

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Printed in U. S. of America

6AK910

**FM RF ALIGNMENT—SELECTOR IN FM POSITION**

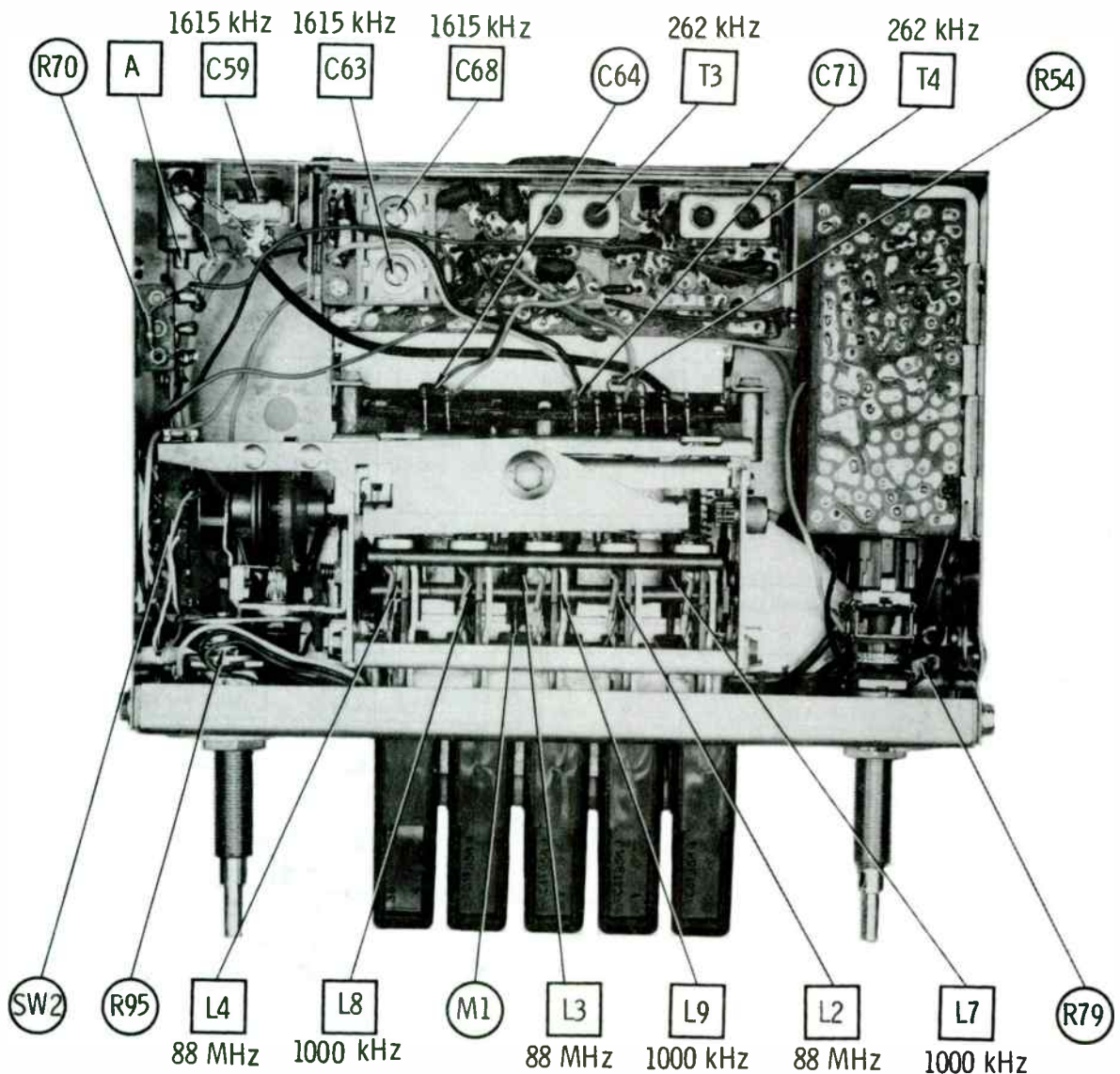
Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.

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	"	C19, C9, C5	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

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

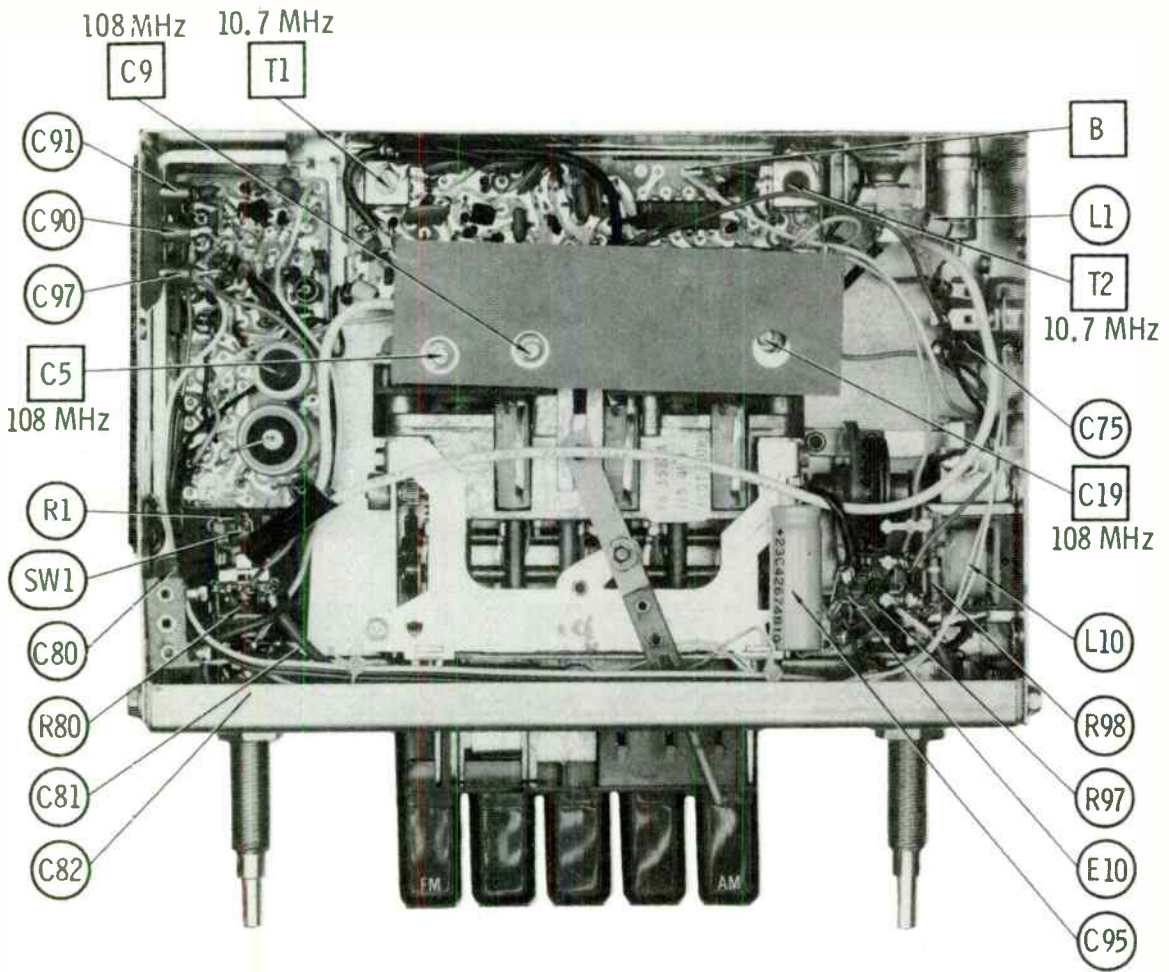
High side of generator thru .001uF to point A, low side to ground.

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.

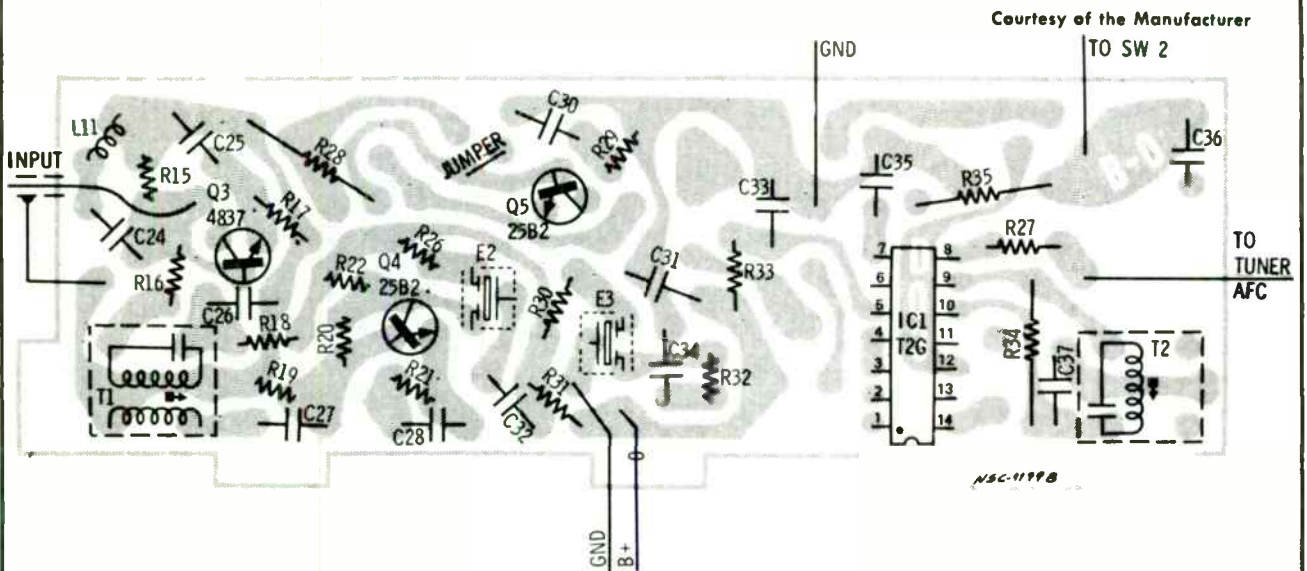


**CHASSIS-BOTTOM VIEW**



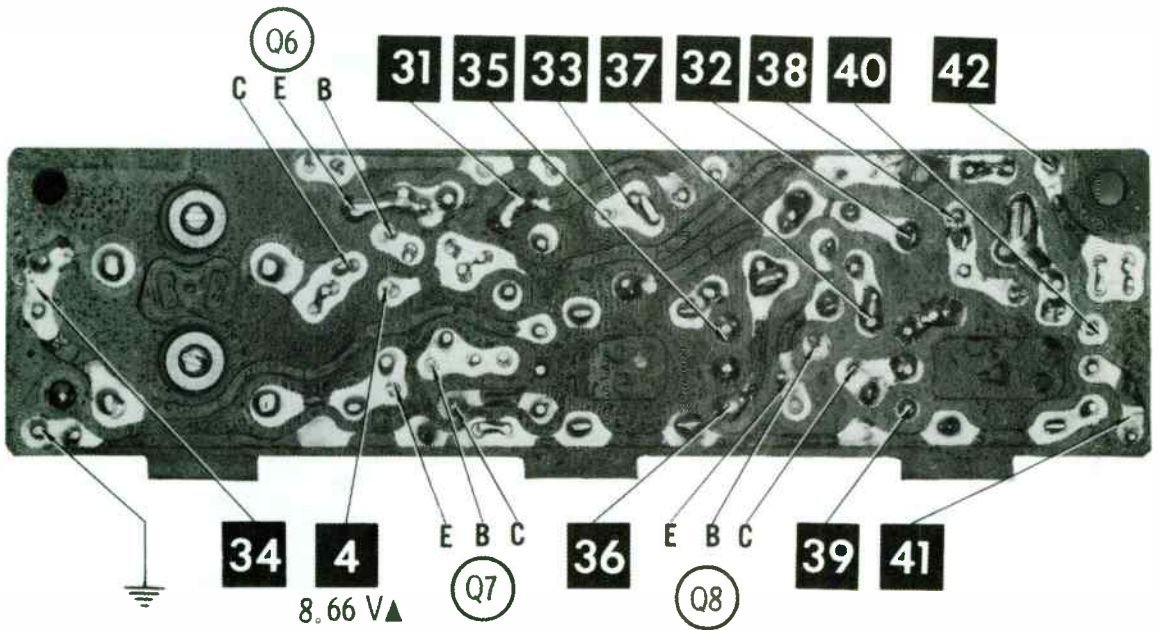


CHASSIS-TOP VIEW

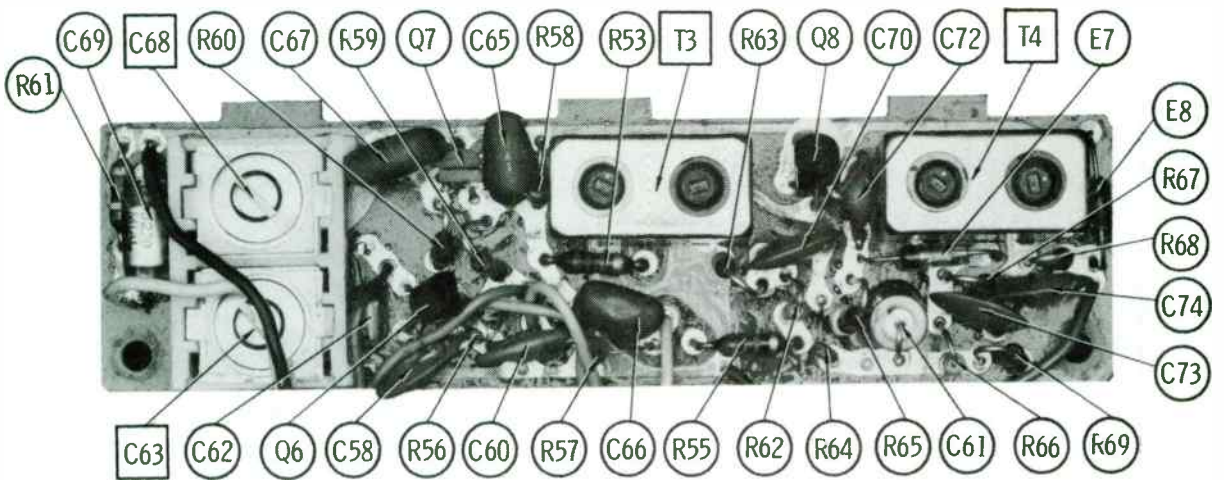


BOTTOM VIEW - WIRING SIDE  
(2ND VERSION)

FM IF PLATED BOARD DIAGRAM

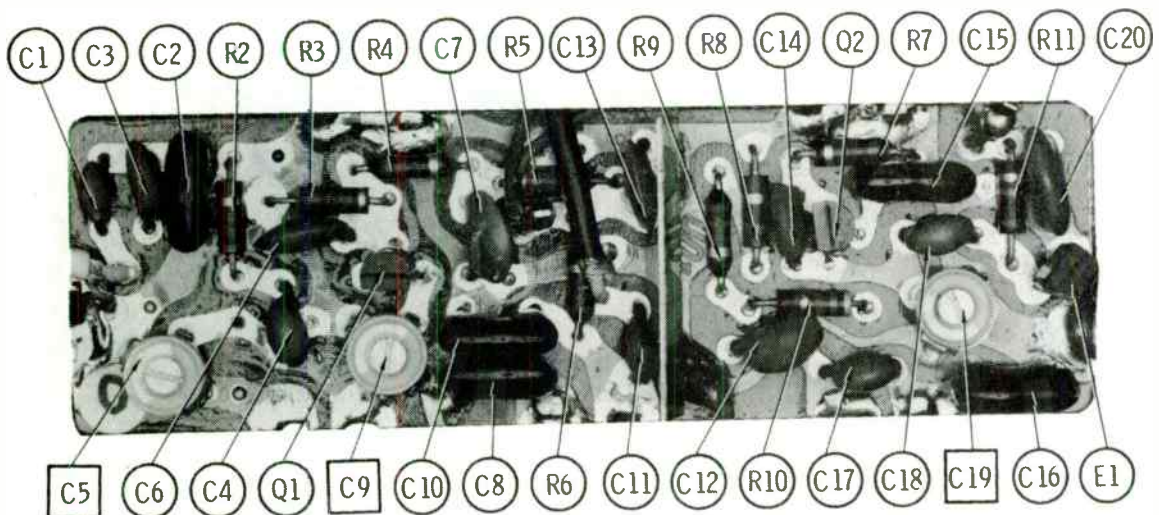
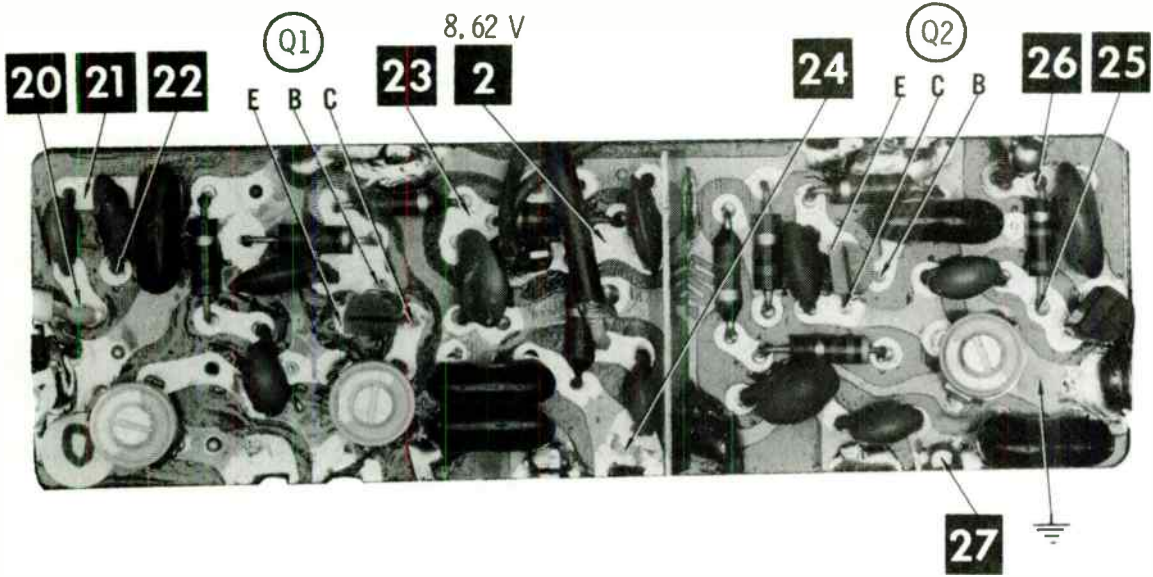


▲ AM

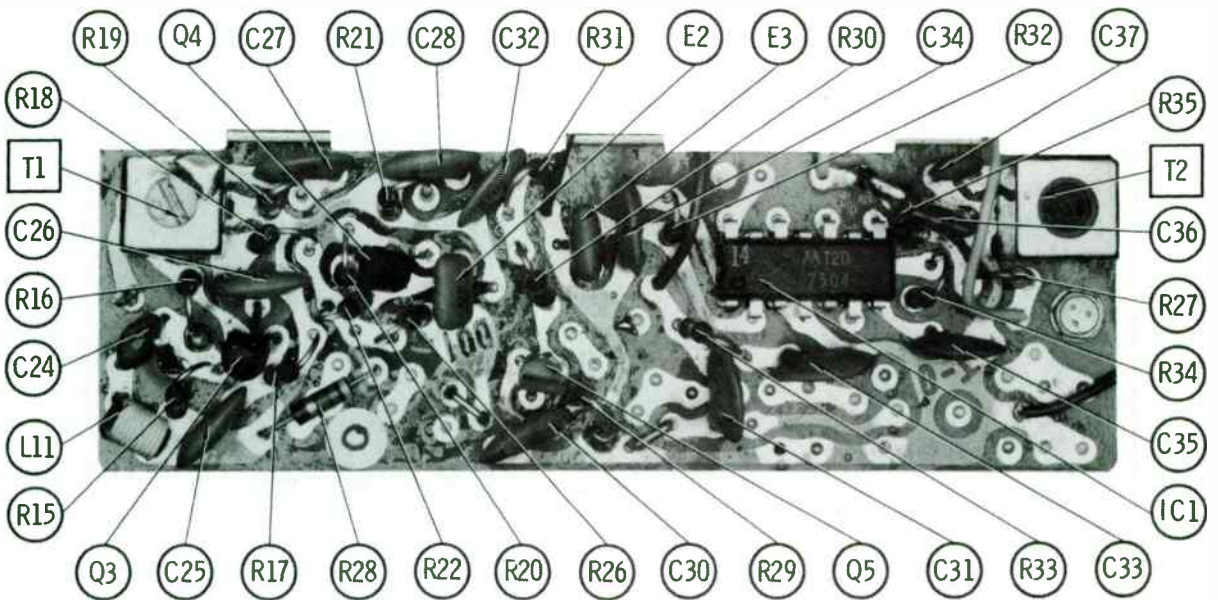
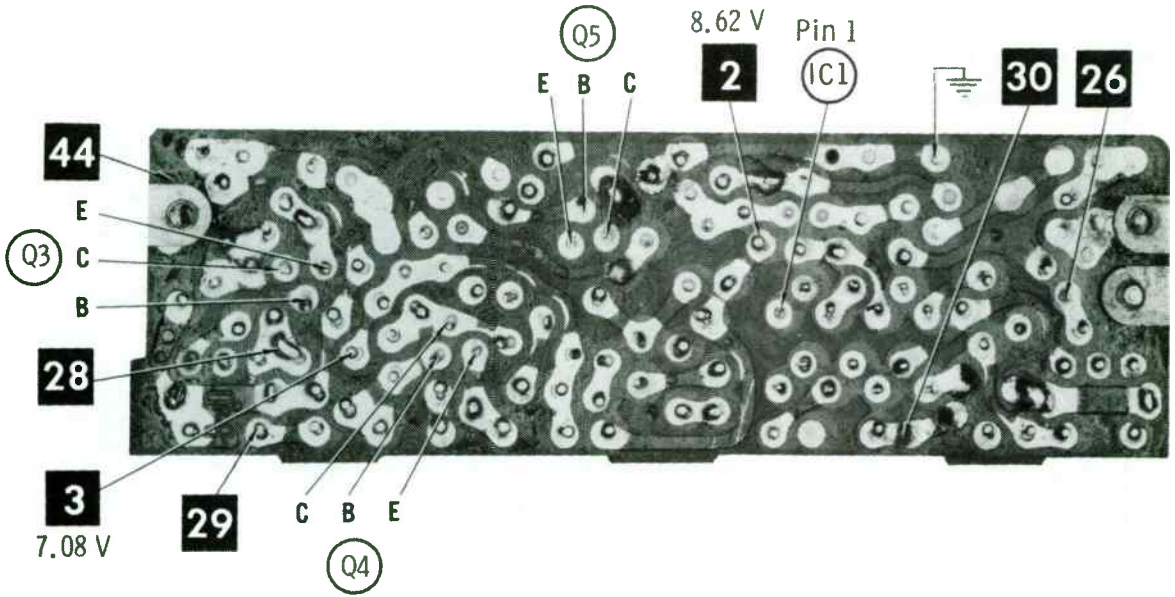


AM BOARD



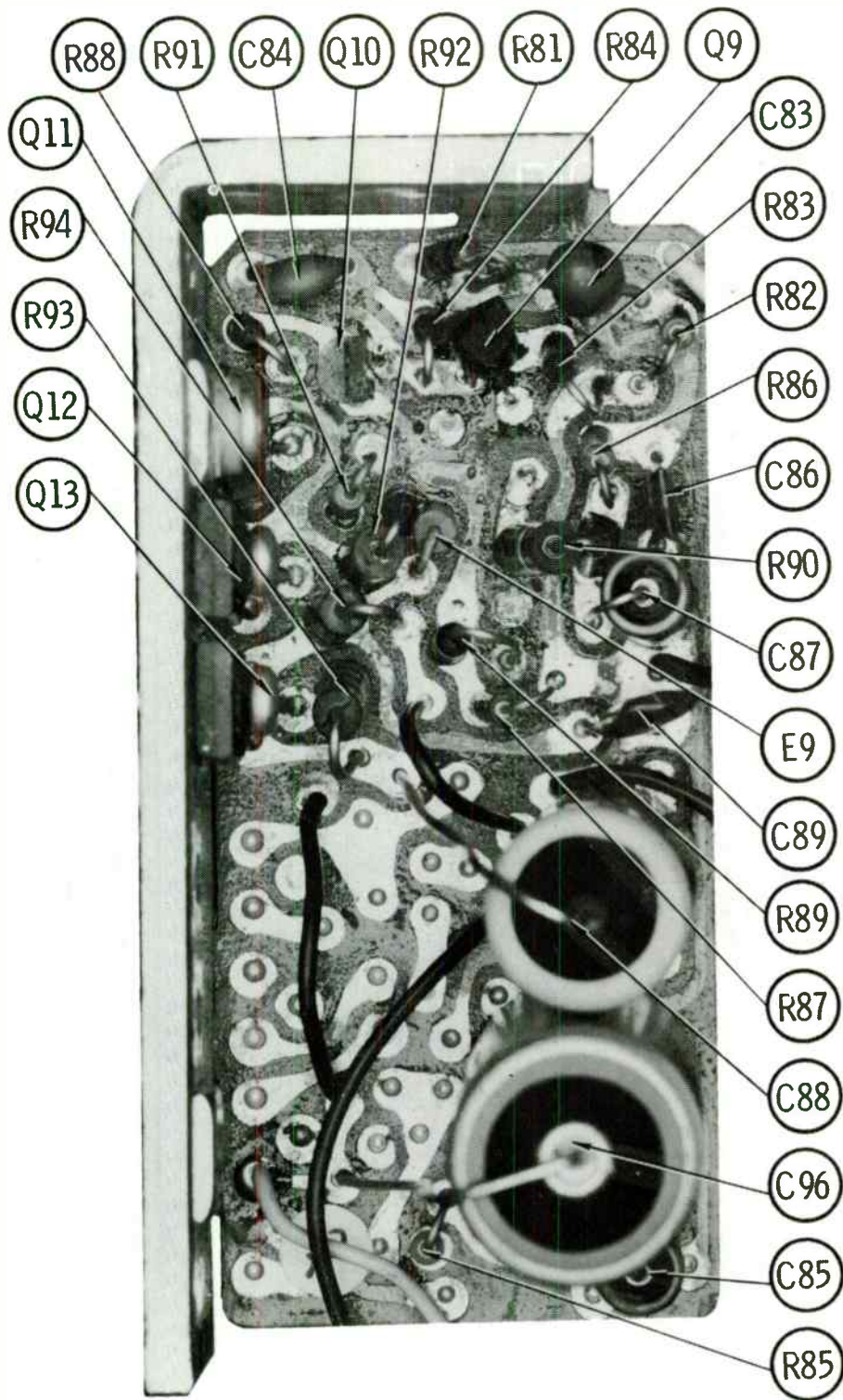


FM BOARD

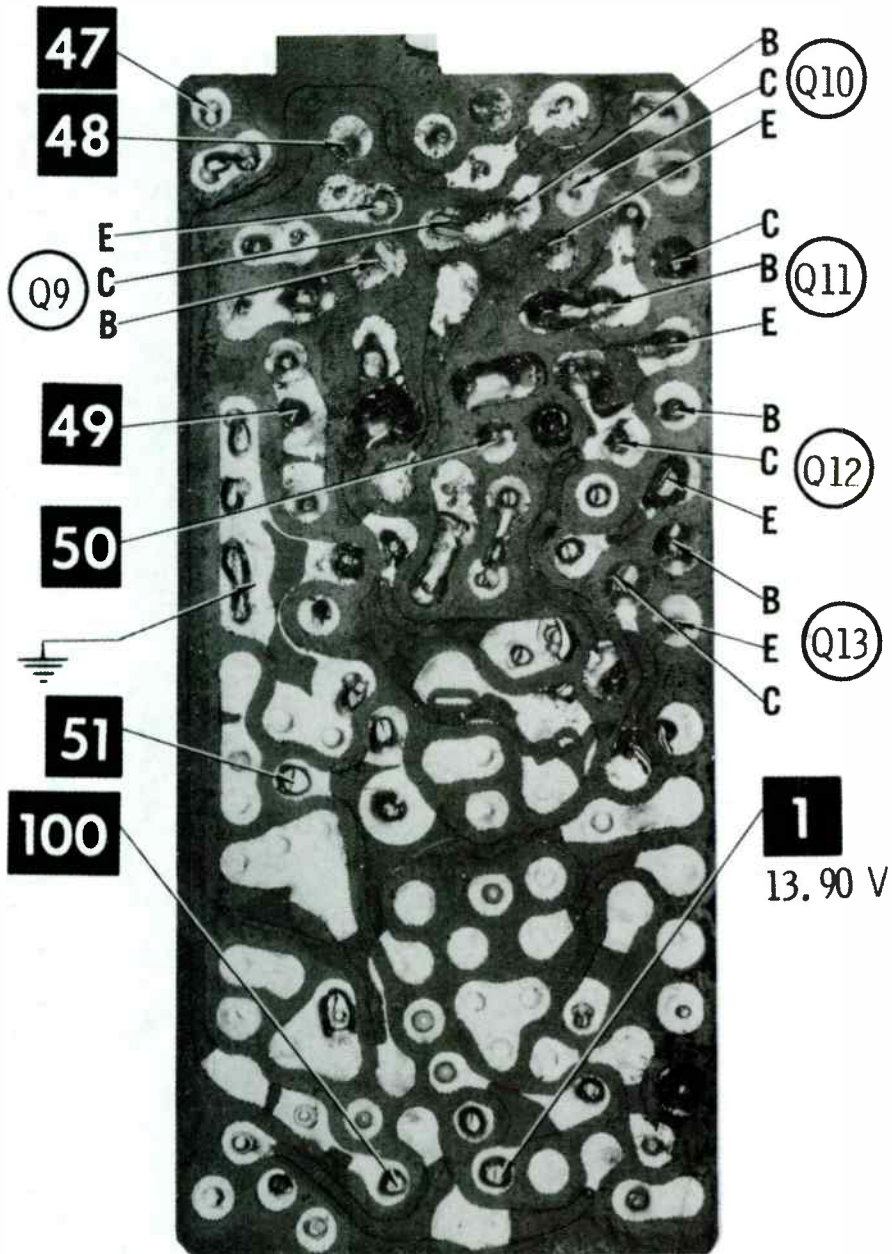


FM IF BOARD

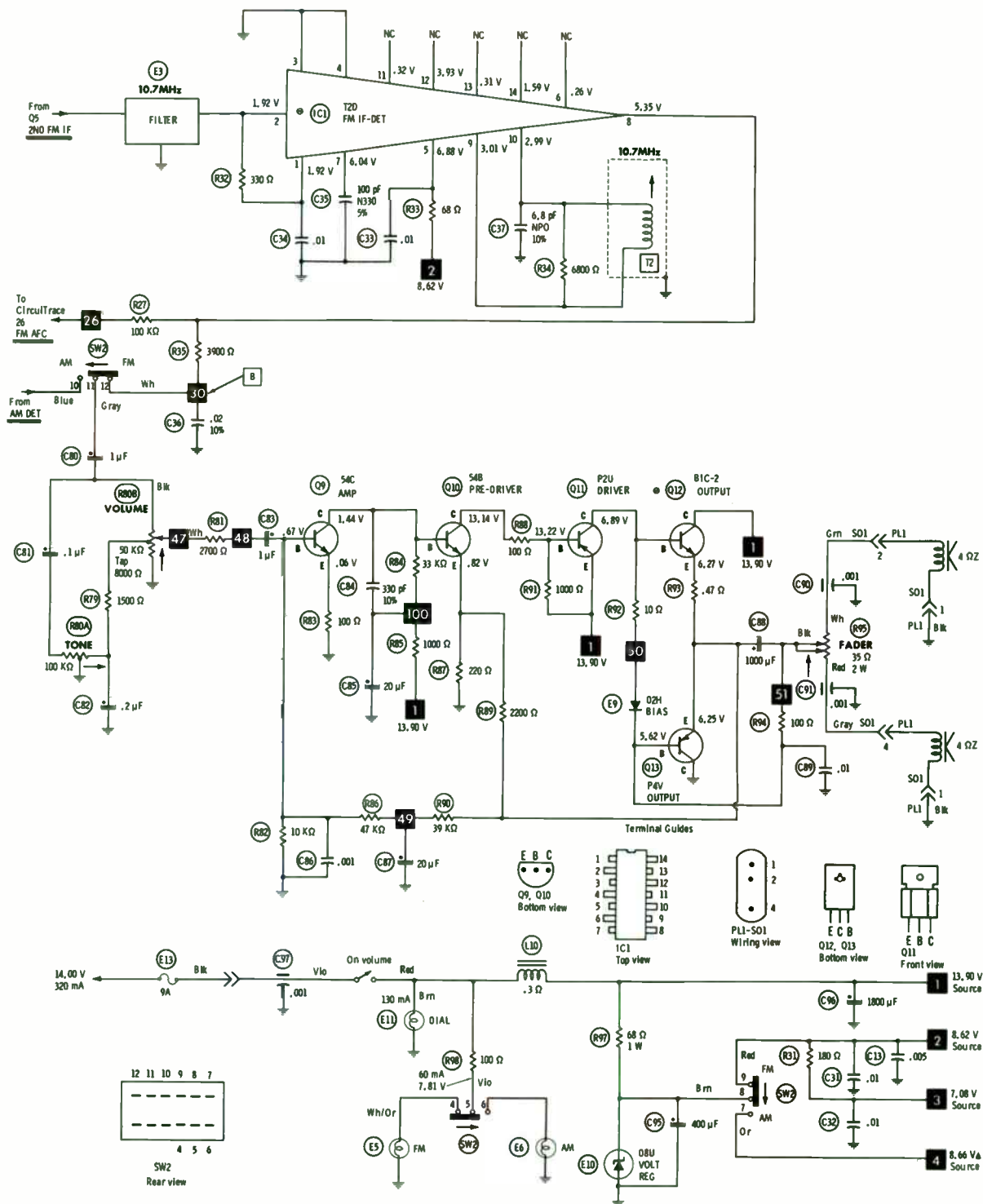




AUDIO BOARD-TOP VIEW



AUDIO BOARD-BOTTOM VIEW



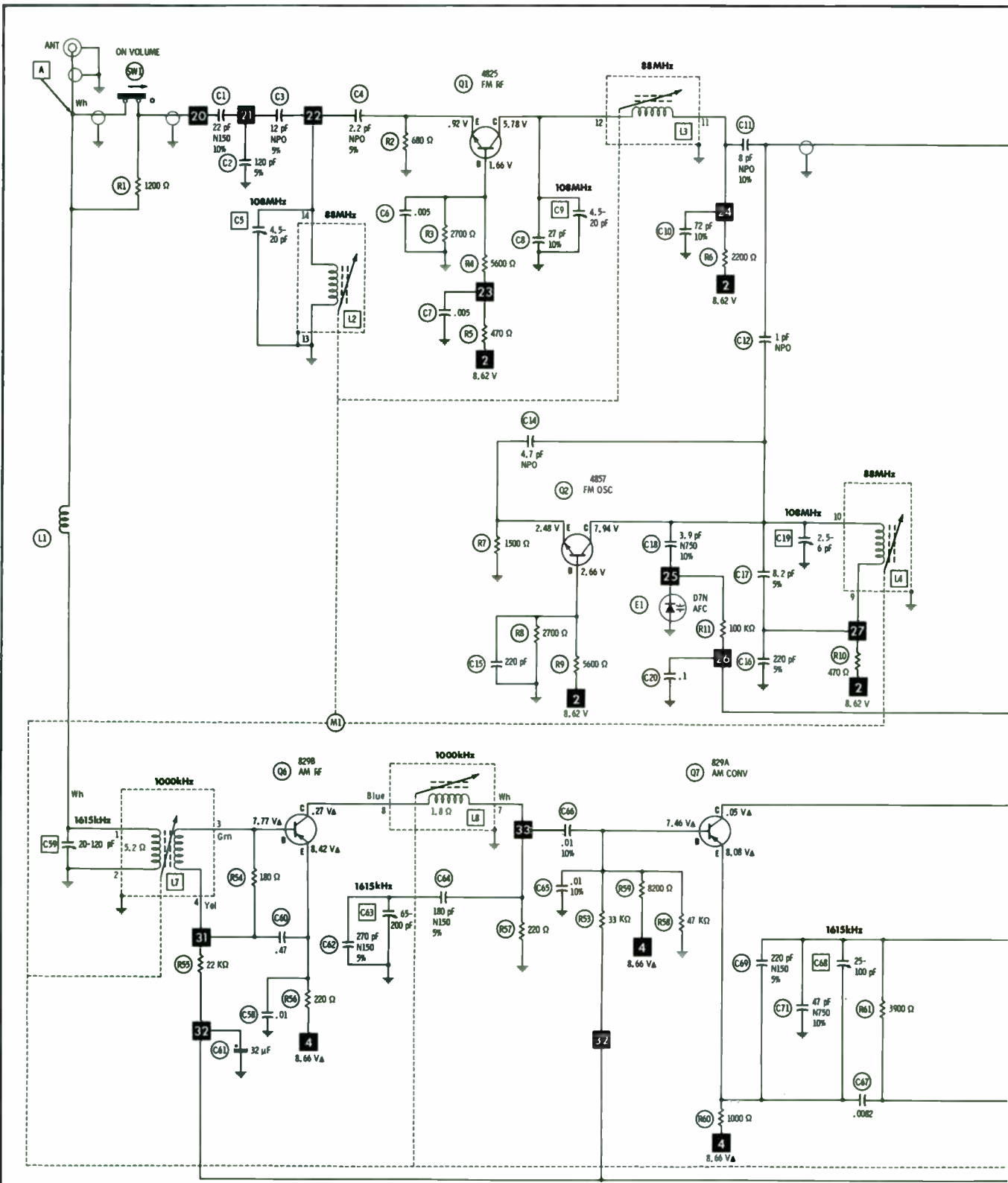
- \*— Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ⊞ Chassis
- ⊖ Common tie point

Measurements with switching as shown unless noted:  
▲ AM

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, 10% unless noted.  
Value in ( ) used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC  
WITH CIRCUITRACE

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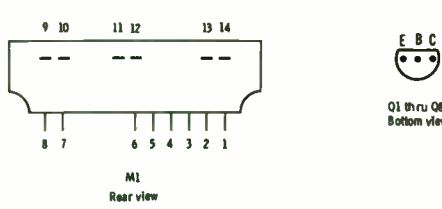
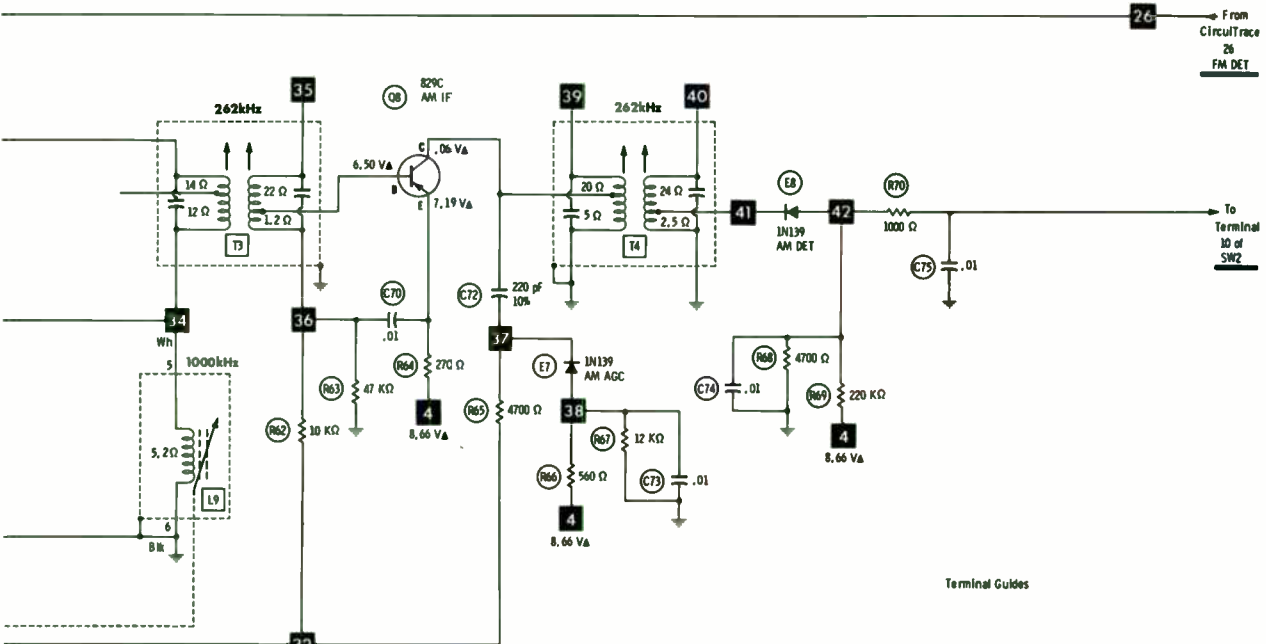
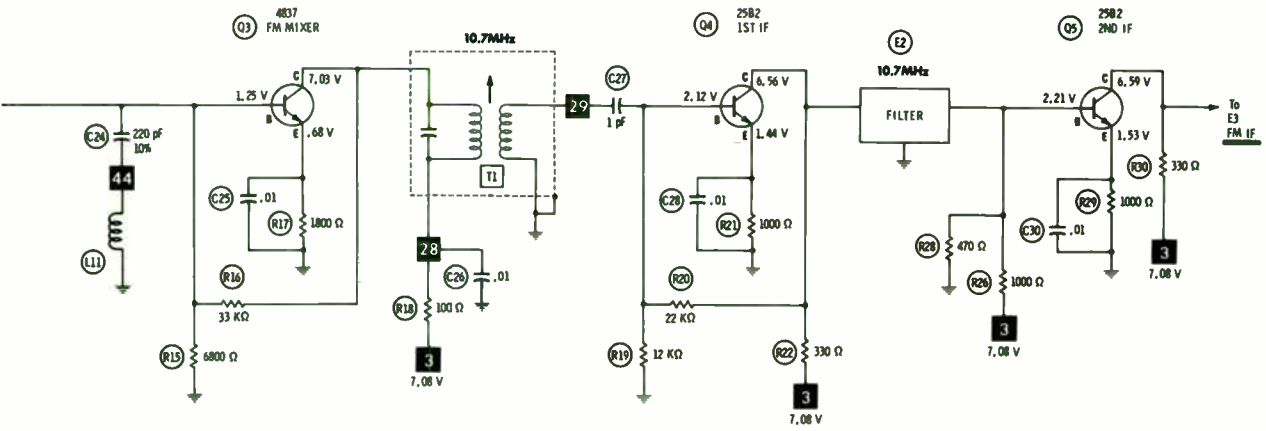
- Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊕ See parts list
- ⊛ Nominal value
- ⊥ Ground
- ⏏ Chassis
- ▽ Common tie point

Measurements with switching as shown unless noted:  
 ▲ AM

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, 10% unless noted.  
 Value in ( ) used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC  
 WITH **CIRCUITRACE**  
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# 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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
E1	D7N	48-137487	GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	
E7	1N139	48-134587	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
E8	1N139	48-134587	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
E9	D2H	48-137029	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
E10	D8U	48-137577					RE 113			ECG5073
IC1	T2D	51-10594A01	GEIC-15		PTC723	HEPC6101P			TVCM-16	ECG723
	T2G	51-10619A01								
Q1	4825	48-134825	GE-17	TR-21	PTC136	HEPS0033	RE 9	SK3018	RT-108A	ECG107
Q2	4857	48-134857	GE-17	TR-95	PTC136	HEPS0020	RE 10	SK3018	RT-113	ECG108
Q3	4837	48-134837	GE-17	TR-21	PTC115	HEPS0020	RE 10	SK3018	RT-107	ECG108
Q4	25B2	48-137351	GE-20	TR-21	PTC136	HEPS0025	RE 10	SK3018	RT-107	ECG229
Q5	25B2	48-137351	GE-20	TR-21	PTC136	HEPS0025	RE 10	SK3018	RT-107	ECG229
Q6	829B	48-134831	GE-21	TR-30	PTC103	HEPS0019	RE 26	SK3114	RT-115	ECG159
Q7	829A	48-134830	GE-82	TR-30	PTC177	HEPS0019	RE 193	SK3138	RT-126A	ECG288
Q8	829C	48-134832	GE-21	TR-30	PTC103	HEPS0019	RE 26	SK3114	RT-115	ECG159
Q9	54C	48-134810	GE-20	TR-21	PTC136	HEPS0016	RE 13	SK3124	RT-172	ECG123A
Q10	54B	48-134809	GE-20	TR-21	PTC136	HEPS0015	RE 13	SK3124	RT-172	ECG123A
Q11	P2U	48-137160	GE-84	TR-73		HEPS3028	RE 76		RT-185	ECG189
Q12	B1C	48-137473 (5)	GE-57		PTC163	HEPS5000	RE 40	SK3178		ECG184
Q13	P4V	48-137472 (5)	GE-58		PTC162	HEPS5006	RE 41	SK3179		ECG185

(5) Half of complementary pair.

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C61	32 10V	23-42674B35	WBR35-50	TT10X30A	TVA-1129.92
C80	1 10V	23-43280A22		TDC105M035EL	SD35-19
C81	.1 15V	23-43280A14		TDC104M050EL	SD50-R109
C82	.2 15V	23-43280A19		TDC224M050EL	SD50-R229
C83	1 6V	23-43280A36		TDC105M035EL	SD35-19
C85	20 16V	23-41928A24	WBR25-25	TT15X20A	TVA-1147
C87	20 16V	23-41928A24	WBR25-25	TT15X20A	TVA-1147
C88	1000 10V	23-42674B12	WBR1000-16	TC1210D	TVA-1128
C95	400 16V	23-42674B10	WBR500-16	TC1505C	TVA-1162
C96	1800 16V	23-42674B21	WBR2000-16	MTA2000G15	TVA-1170

# 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	22 N150 10%	20-40429B03	DTZ-120		*	10TCP-Q22		
C2	120 5%		DTZ-2R2	NP02P2	CN0312	10TCC-T12		
C3	12 NPO 5%				CN0412	10TCC-Q12		
C4	2.2 NPO 10%				CN0522	10TCC-V22		
C5	4.5 - 20		20-40429B03	DC-502	GP5000	TA250	2SS-D50	
C6	.005			DC-502	GP5000	TA250	2SS-D50	
C7	.005				CD6ED27QJ03	SX427	MS-427	
C8	27 10%			20-40429B03		CD6ED75QJ03	SX475	424MC75RQJ501
C9	4.5-20					NP08	*	10TCC-V82
C10	72 10%						CN0510	10TCC-V10
C11	8 NPO 10%				DC-502	GP5000	2SS-D50	
C12	1 NPO ±.25				DTZ-4R7	NP04P7	10TCC-V47	
C13	.005					CD10FD221J03	424ME220QJ501	
C14	4.7 NPO ±.25					CD10FD221J03	424ME220QJ501	
C15	220 5%				SX322	10TCS-V82		
C16	220 5%	20-40429B02				*		
C17	8.2 N330 5%					CN7533		
C18	3.9 N750 10%			DC-104	MGP1	TG-P10		
C19	2.5-6			DD-221		10TS-T22		
C20	.1			DC-103	GP10000	2SS-S10		
C24	220 10%			DC-103	GP10000	2SS-S10		
C25	.01			DC-103	GP10000	2SS-S10		
C26	.01			DC-103	GP10000	2SS-S10		
C27	.01			DC-103	GP10000	2SS-S10		
C28	.01			DC-103	GP10000	2SS-S10		
C30	.01		DC-103	GP10000	2SS-S10			
C31	.01		DC-103	GP10000	2SS-S10			
C32	.01		DC-103	GP10000	2SS-S10			
C33	.01		DC-103	GP10000	2SS-S10			
C34	.01		DC-103	GP10000	2SS-S10			
C35	100 N330 5%	20-64065B05			*	10TCS-T10		
C36	.02 10%			DTZ-6R8	DPMS2S2	2PS-S20		
C37	6.8 NPO 5%			DC-103	NP06P8	10TCC-V68		
C58	.01				GP10000	2SS-S10		
C59	20-120							
C60	.47				DPMS2P47	1PB-P47		
C62	270 N150 5%		20-64618A10			*	10TCP-T27	
C63	65-200							
C64	180 N150 5%							
C65	.01 10%					DPMS4S1	10TCP-T18	
C66	.01 10%				DPMS4S1	1PB-S10		
C67	.0082 10%				DPMS6D82	1PB-S10		
C68	25-100					1PB-D82		
C69	220 N150 5%	20-64618A10				*	10TCP-T22	
C70	.01				DC-103	GP10000	2SS-S10	
C71	47 N750 10%				DTN-47	N47	10TCU-047	
C72	220 10%			DD-221		10TS-T22		
C73	.01			DC-103	GP10000	2SS-S10		
C74	.01			DC-103	GP10000	2SS-S10		
C75	.01				DPMS4S1	1PB-S10		
C84	330 10%			DD-331	GP330	10TS-T33		
C86	.001				DPMS6D1	1PB-D10		
C89	.01				DPMS4S1	1PB-S10		
C90	.001	21-560232						
C91	.001	21-560232						
C97	.001	21-560232						

MOTOROLA MODEL 5FM216A

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

## 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.	MALLORY PART No.	TRW PART No.
R80A	Tone	100K	18-40186E01				
8	Volume/Power Switch	50K Tap					
R95	Fader	800G 35 2W	18-40172G01 18C40172G01 (5)				

(5) Number on unit.

## 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	RF Choke	24-64003B04		4602	(1) Part of M1
L2	FM Ant	(1)			
L3	FM RF	(1)			
L4	FM Osc	(1)			
L7	AM Ant	(1)			
L8	AM RF	(1)			
L9	AM Osc	(1)			
L11	10.7MHz Trap	24-64003B04		4602	
T1	IF (10.7MHz)	24-40087D01			
T2	Quadrature	24-40250D01			
T3	IF (262kHz)	24-64670B01			
T4	IF (262kHz)	24-64670B02			

### FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L10	320mA	.3	3mH	25-64172A31	TR-155	TY16XT	

### SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP1	PM 4 ohms			

### 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
E13	SFE 9 Amp	65-16248	1-541705	SFE9	HDH	307009	150145	

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
E2	Ceramic Filter	91-41457C01	10.7MHz (1) Mfg. suggested Replacement Part Number
E3	Ceramic Filter	91-43353A53 (1) 91-41457C01	
M1	Tuner	77-41900C80	FS-359, Complete
S2	Coil Assembly	1-40150E51	
	Switch	40-64736B01	AM-FM Selector

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

ITEM	PART No.	ITEM	PART No.
Escutcheon	13-40747D01	Dial Glass	34-40744D01
Knob, Volume	36-40751D01	Push-button, AM	38-41956B06
Knob, Tuning	36-40751D02	Push-button, FM	38-41956B05
Knob, Tone or Fader	36-40752D01	Push-button, FM	38-41956B04
Dial Pointer	52-40120E01		





For Supplier Address See PHOTOFACT Index



MODEL 5FM365A

MOTOROLA MODEL 5FM365A

## ALIGNMENT INSTRUCTIONS

Check for specified source voltage.

Use only enough generator output to provide a usable indication.

Suggested Alignment Tools: GC ELECTRONICS

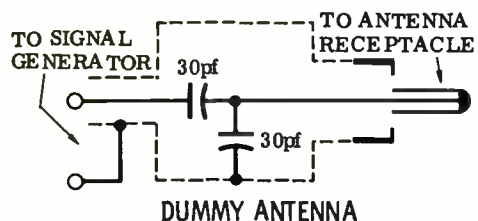
ALL .....8290, 8868, 9087

### 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.	T4, T3	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C68, C63, C59	"
Tuner alignment is not necessary unless associated components have been disturbed. If necessary, back tuning cores L7, L8, L9 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.	L9, L8, L7	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 C59 for maximum output. Antenna adjustment C59 is located on rear right corner.



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

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## ALIGNMENT INSTRUCTIONS (Continued)

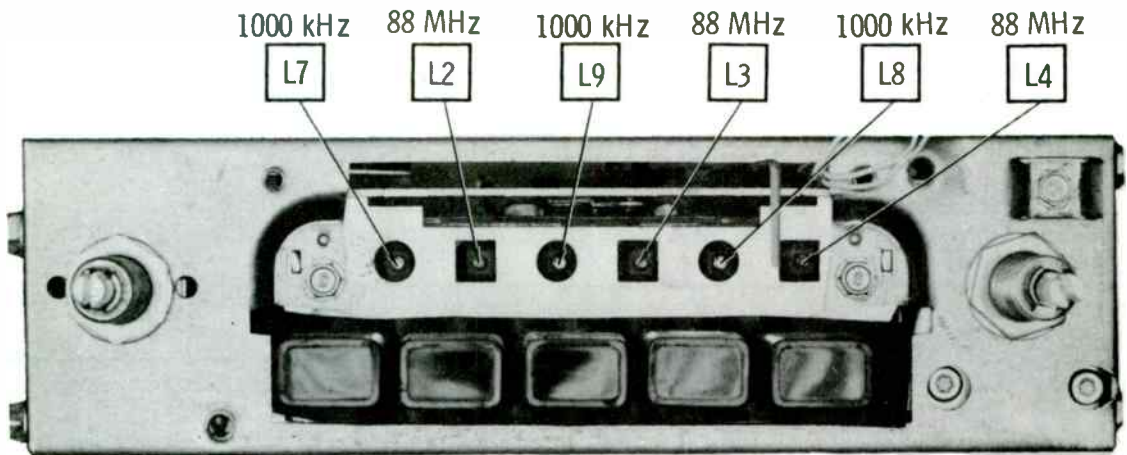
### FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to 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.

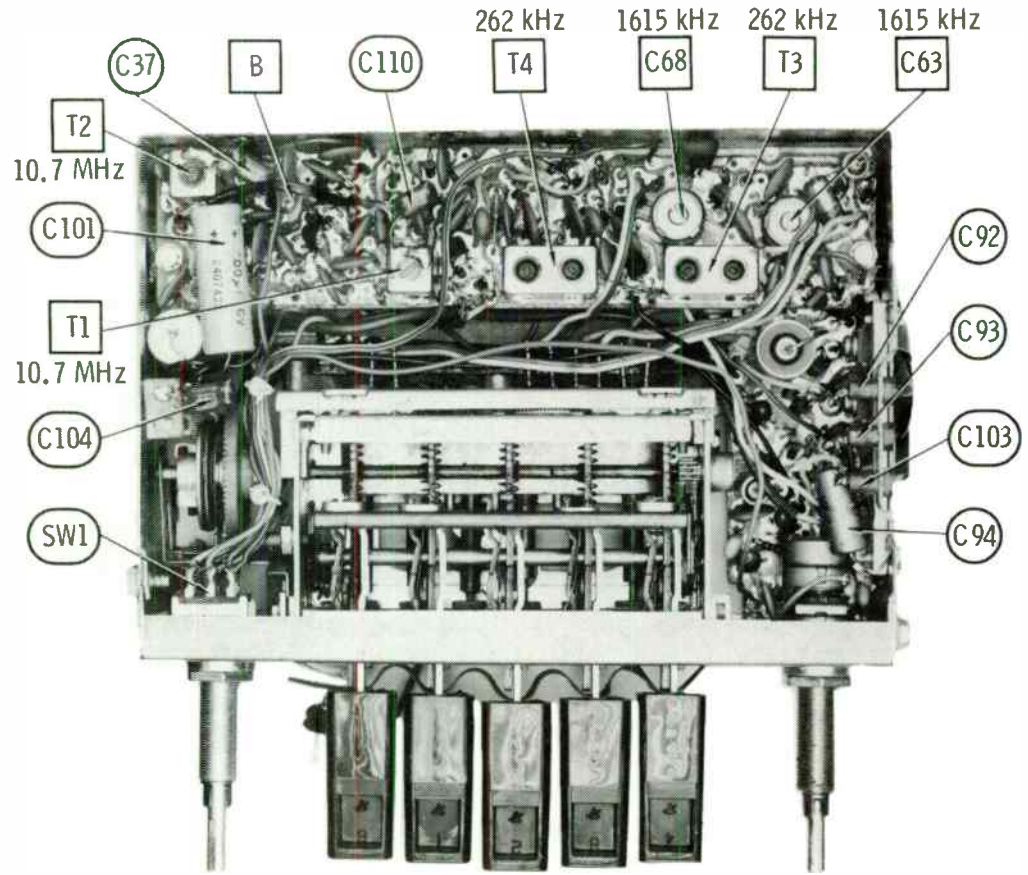
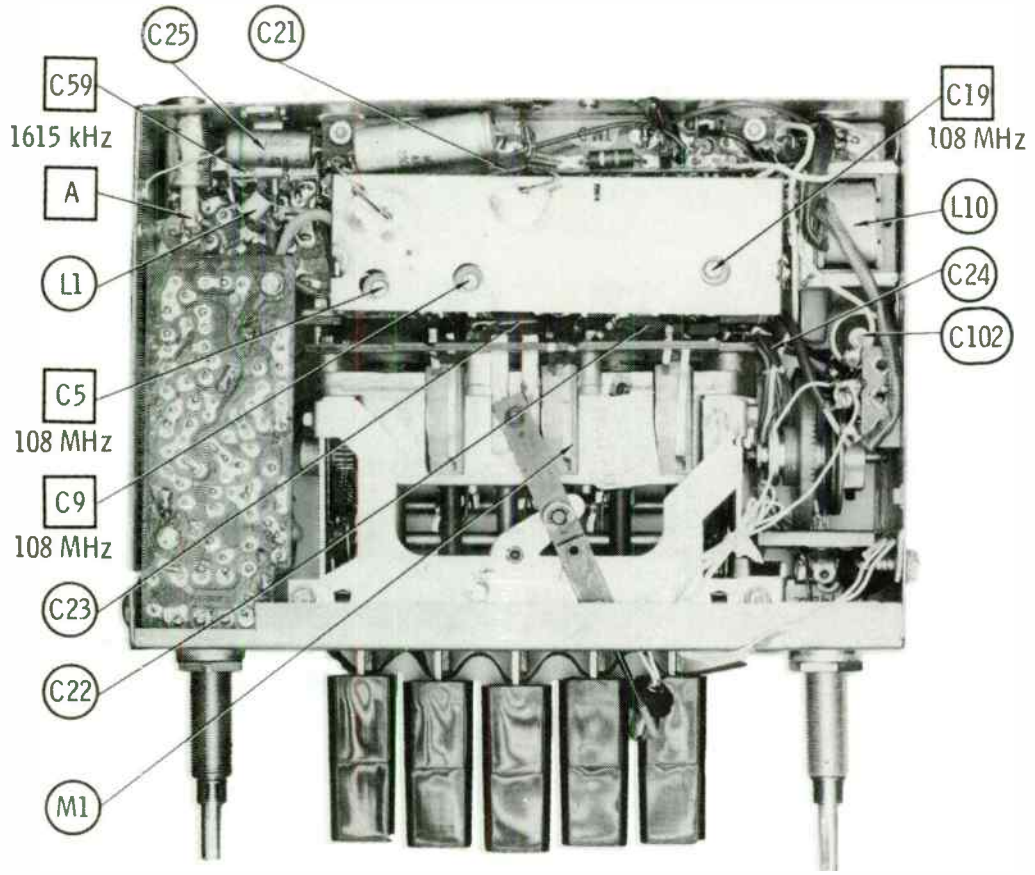
### FM RF ALIGNMENT—SELECTOR IN FM POSITION

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	"	C19,C9,C5	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

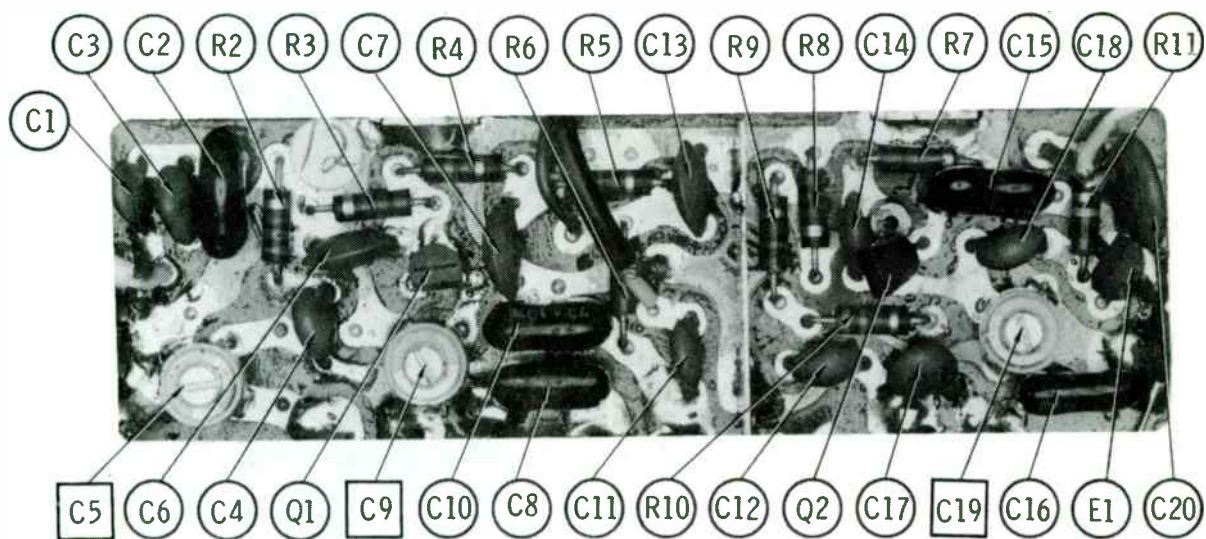
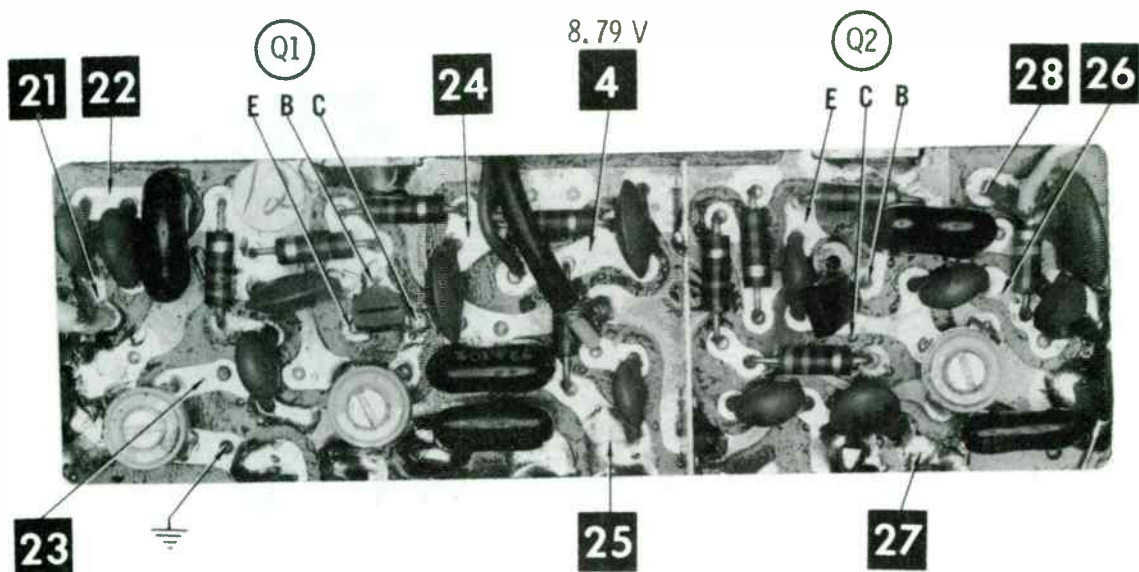


CHASSIS-FRONT VIEW



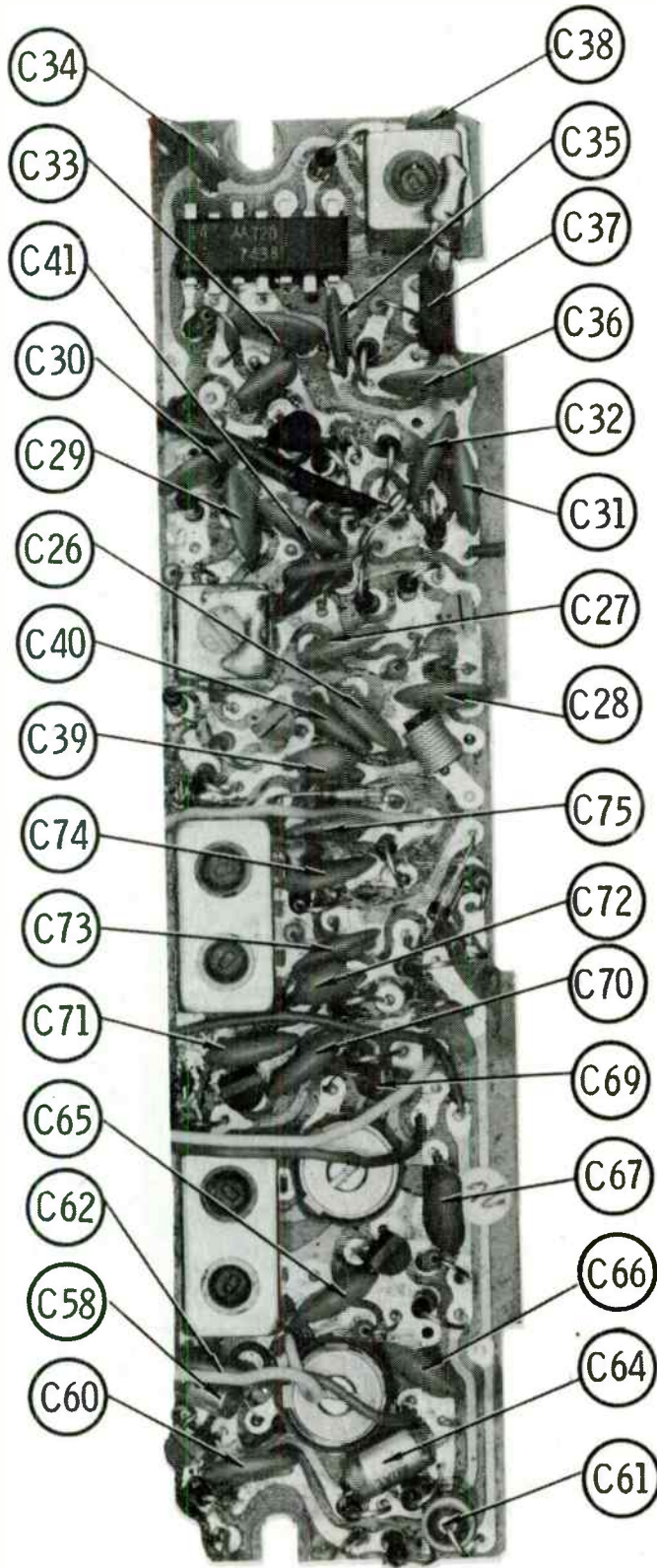
CHASSIS



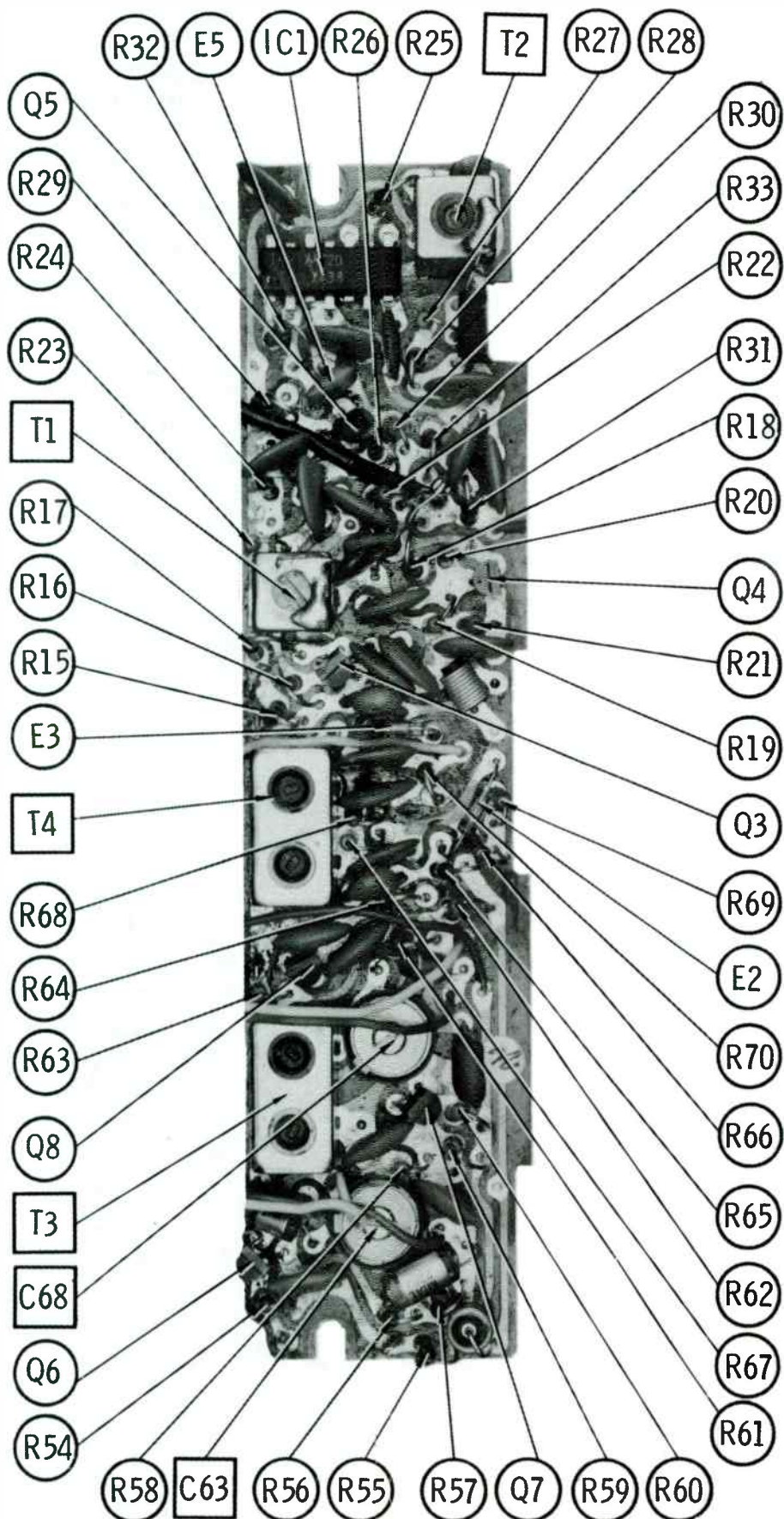


FM RF BOARD





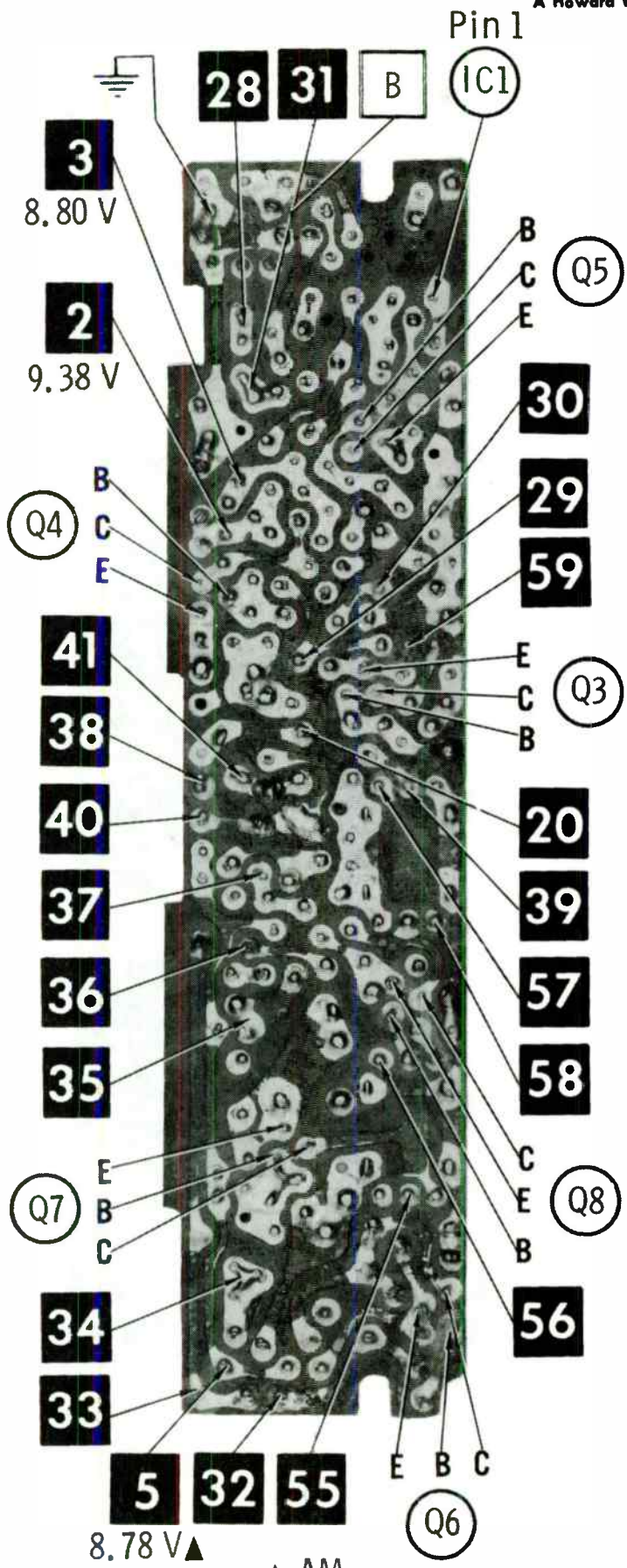
AM/FM IF BOARD-TOP VIEW



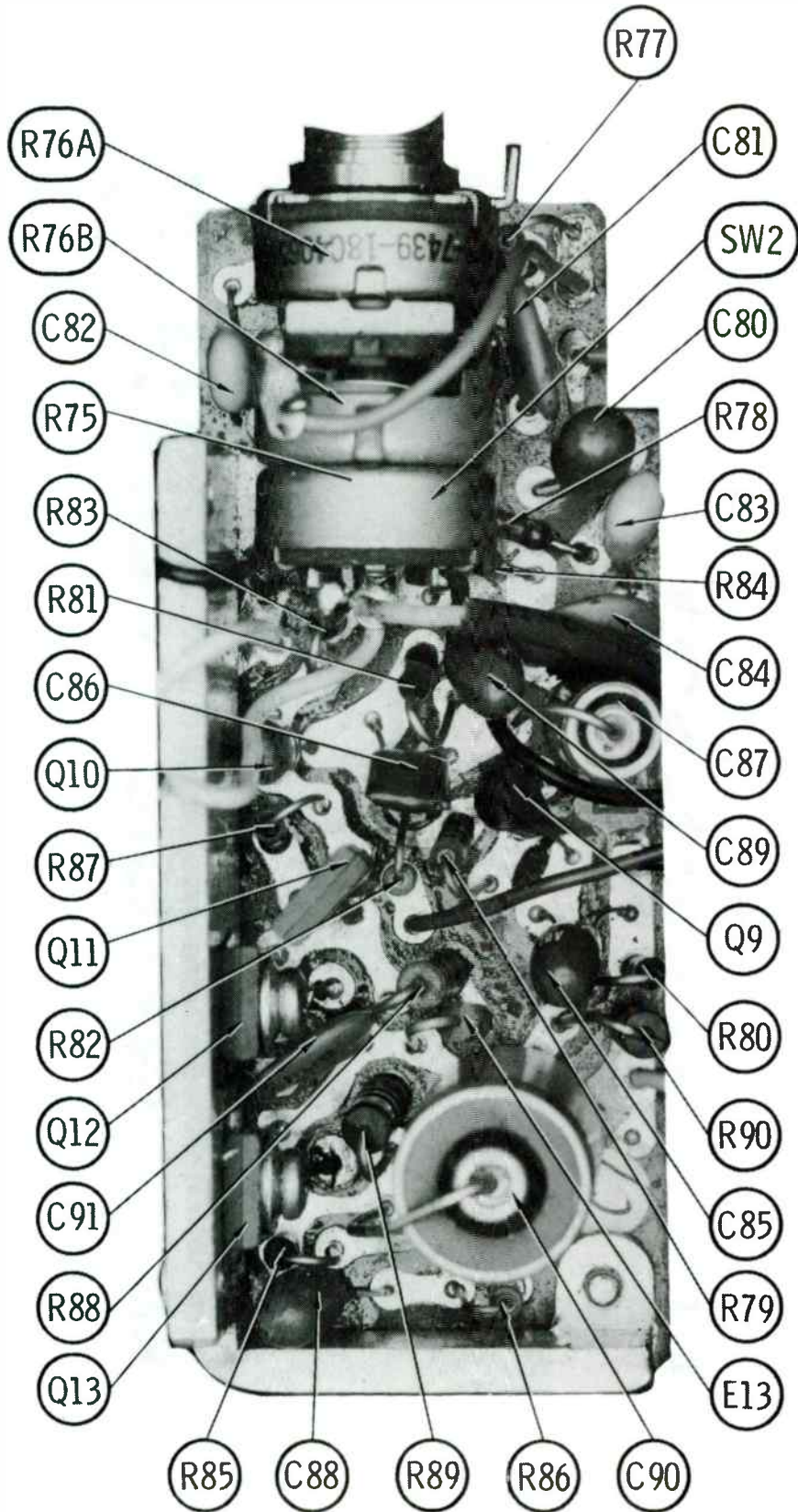
AM/FM IF BOARD-TOP VIEW



MOTOROLA MODEL 5FM365A

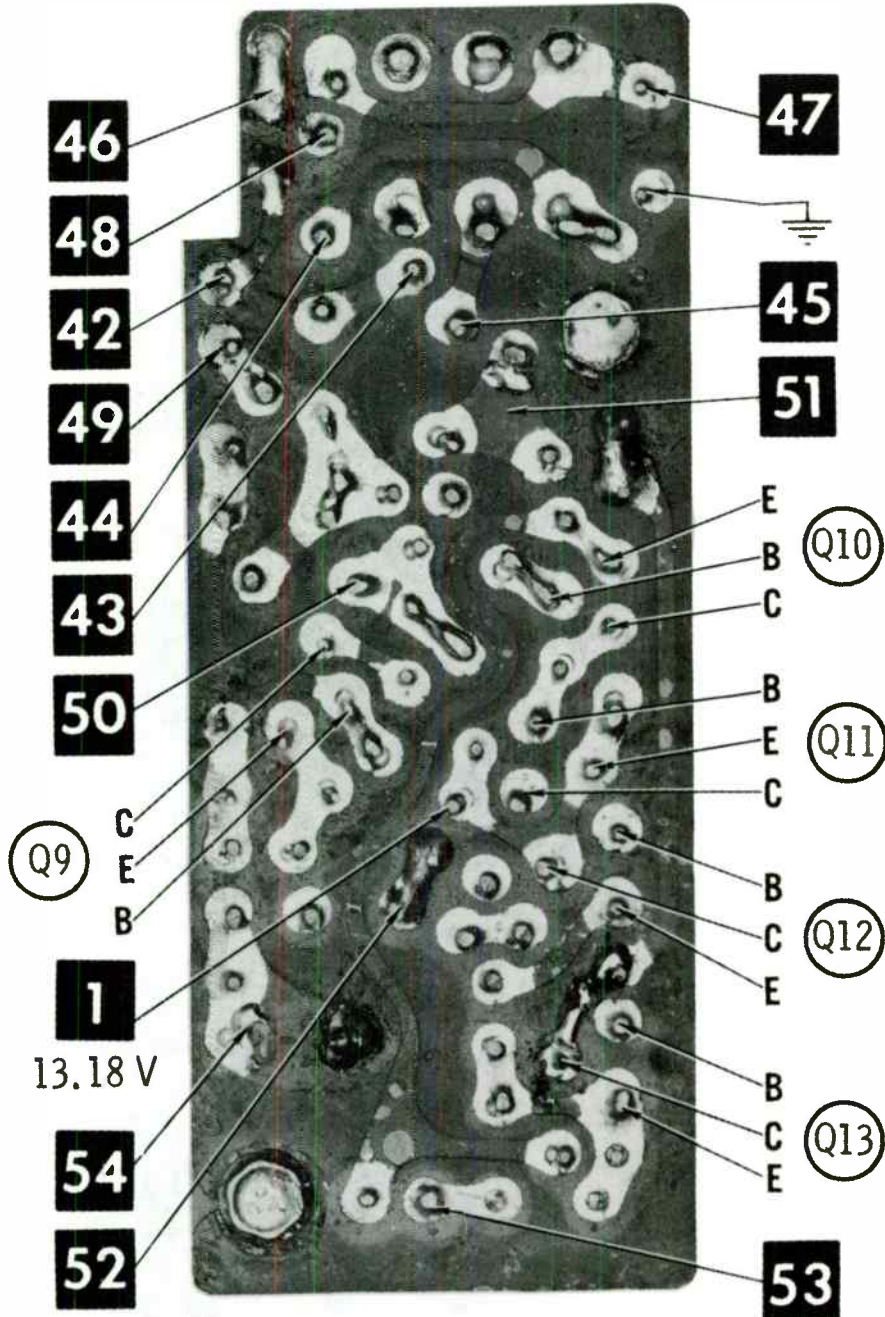


AM/FM IF BOARD-BOTTOM VIEW



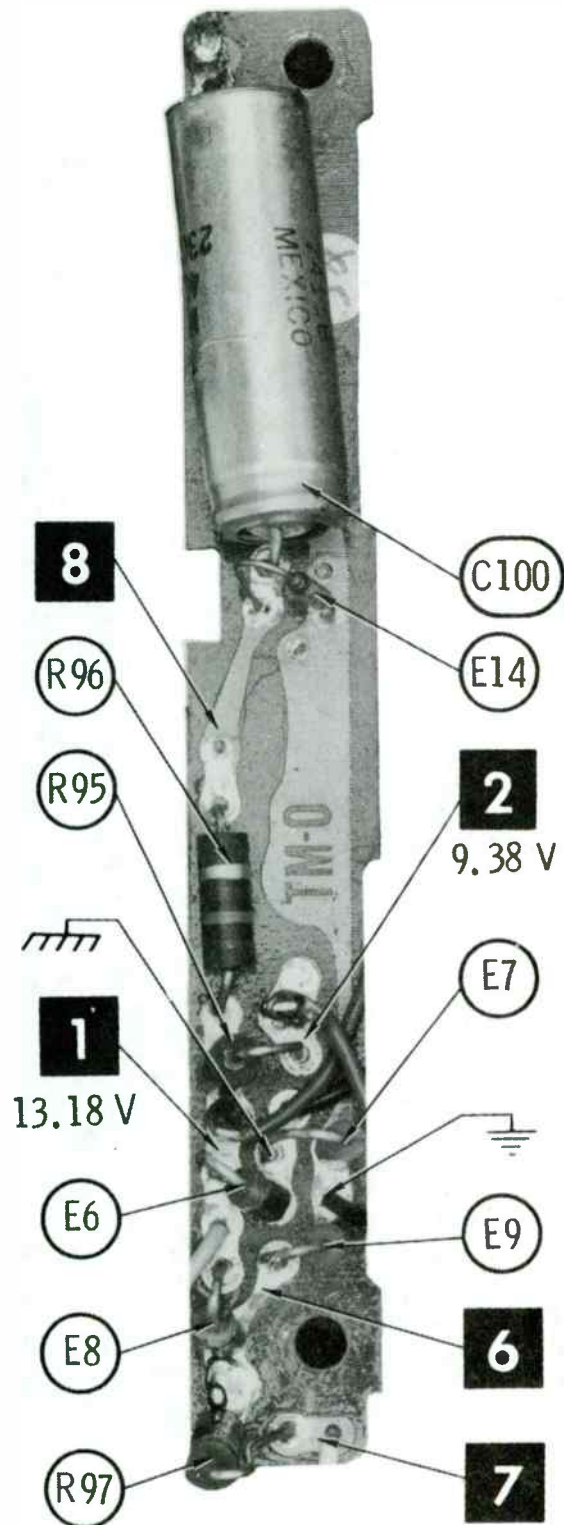
AUDIO BOARD - TOP VIEW



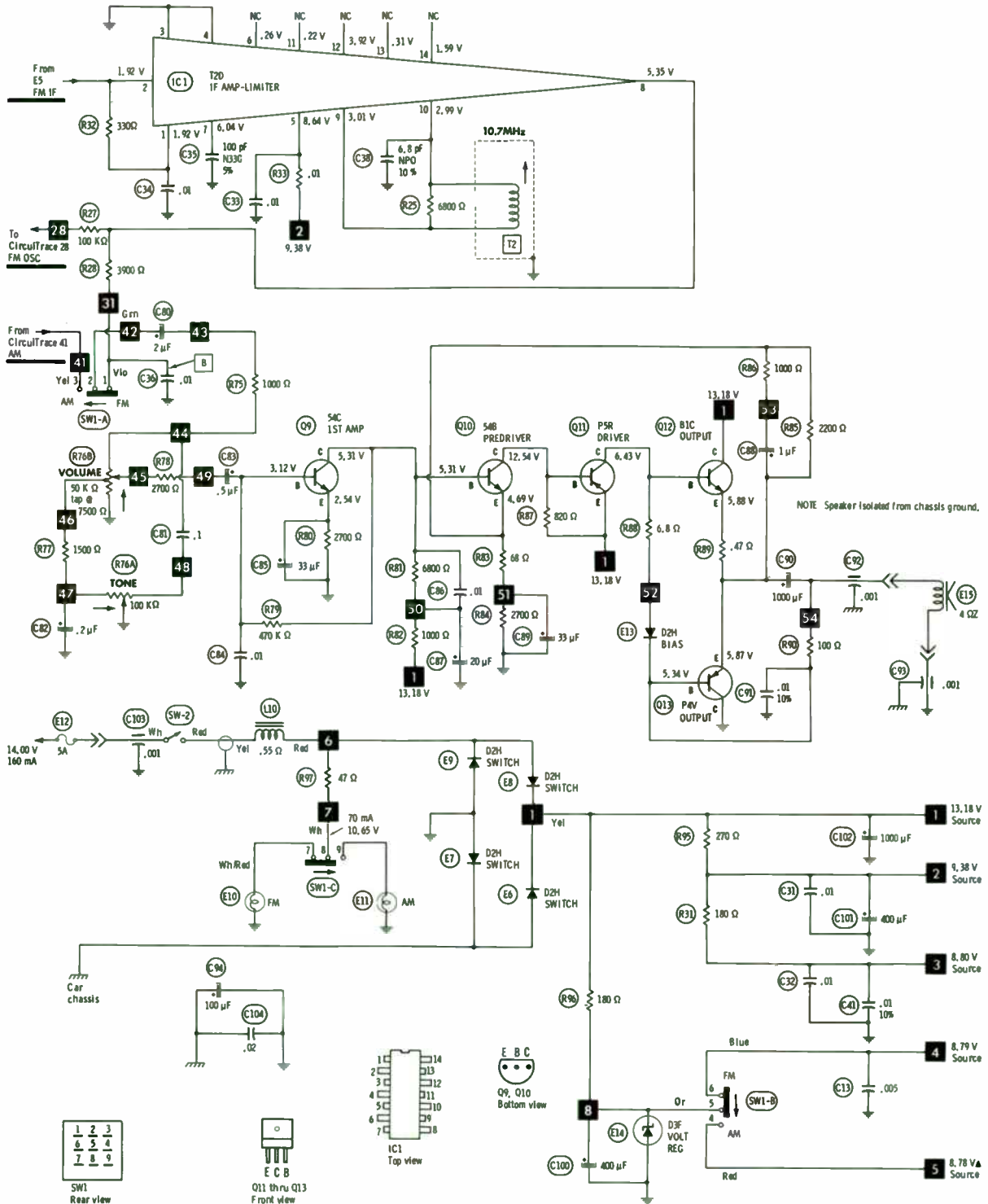


MOTOROLA MODEL 5FM365A

AUDIO BOARD-BOTTOM VIEW



## POWER SUPPLY

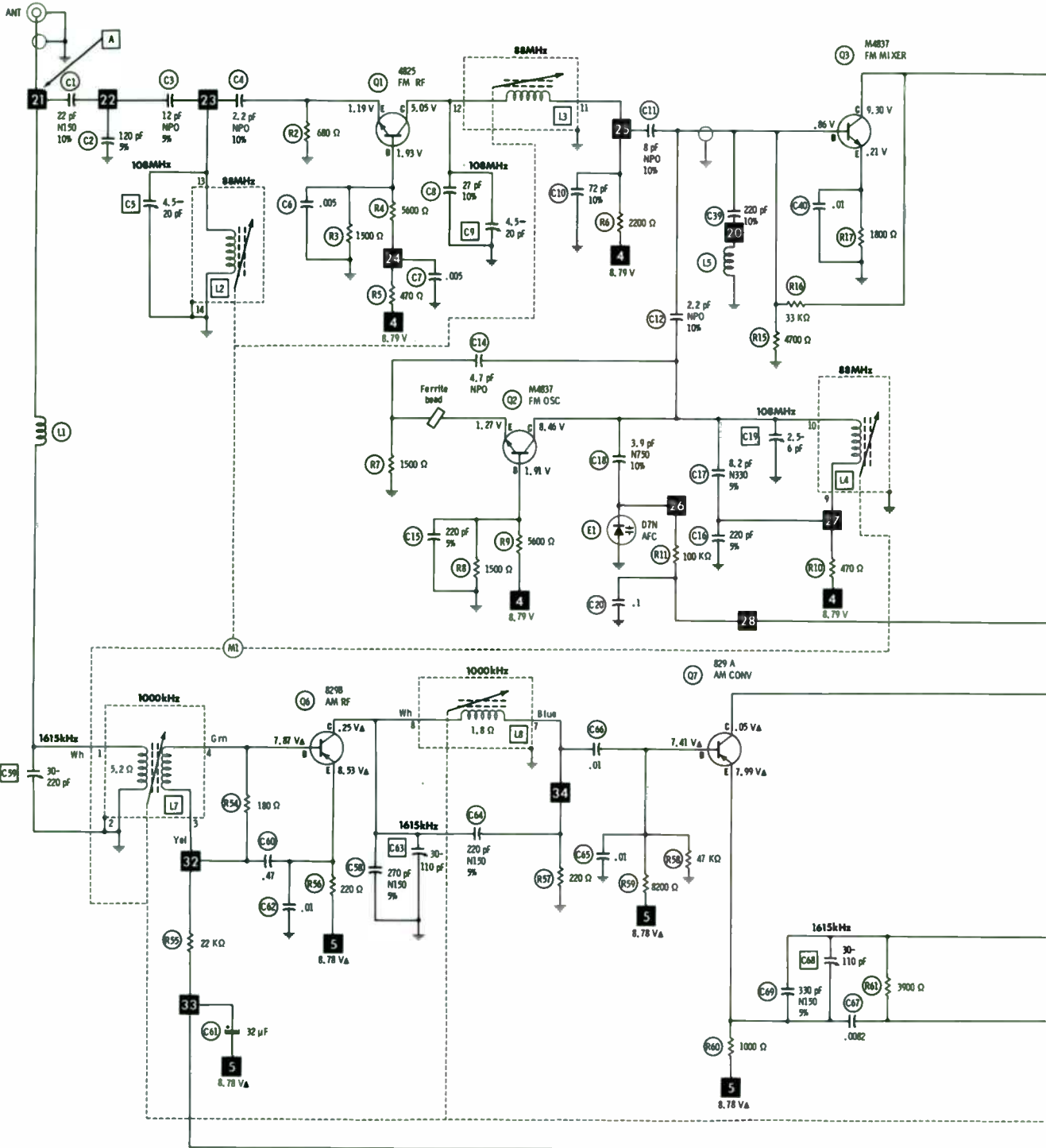


- /— Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- \* Nominal value
- ⊥ Ground
- ⏏ Chassis
- ∇ Common tie point

Measurements with switching as shown unless noted:  
▲ AM

Supply voltage maintained as shown at input.  
Voltages measured with digital meter, no signal.  
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Arrow at control indicates direction of advance.  
Terminal identification may not be found on unit.  
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WITH **CIRCUITRACE**  
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- Circuitry not used in some versions
- Circuitry used in some versions
- See parts list
- \* Nominal value
- ⊕ Ground
- ⏏ Chassis
- ▽ Common tie point

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# PARTS LIST AND DESCRIPTION

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Rear Seat Speaker Extension Cable .....	Use BELDEN No. 8782 (Stranded) Coded Parallel Leads
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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							
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E2	1N139	48-134587	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
E3	1N139	48-134587	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
E6	D2H	48-137029	GE-504A	5A6D	PTC202	HEPRO054	RE 49	SK3017A	RT-215	ECG116
E7	D2H	48-137029	GE-504A	5A6D	PTC202	HEPRO054	RE 49	SK3017A	RT-215	ECG116
E8	D2H	48-137029	GE-504A	5A6D	PTC202	HEPRO054	RE 49	SK3017A	RT-215	ECG116
E9	D2H	48-137029	GE-504A	5A6D	PTC202	HEPRO054	RE 49	SK3017A	RT-215	ECG116
E13	D2H	48-137029	GE-504A	5A6D	PTC202	HEPRO054	RE 49	SK3017A	RT-215	ECG116
E14	D3F	48-137164	GEZD-9.1	Z1209	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
IC1	T2D	51-10594A01	GE1C-15		PTC723	HEPC6101P			TVCM-16	ECG723
Q1	4825	48-134825	GE-17	TR-70	PTC121	HEPS0033	RE 9	SK3018	RT-108A	ECG107
Q2	4857	48-134857	GE-17	TR-95	PTC121	HEPS0020	RE 10	SK3018	RT-108A	ECG108
Q3	4837	48-134837	GE-17	TR-95	PTC121	HEPS0020	RE 10	SK3018	RT-108A	ECG108
Q4	25B2	48-137351	GE-20	TR-21	PTC136	HEPS0025	RE 10	SK3018	RT-107A	ECG229
Q5	25B2	48-137351	GE-20	TR-21	PTC136	HEPS0025	RE 10	SK3018	RT-107A	ECG229
Q6	829B	48-134831	GE-21	TR-20	PTC103	HEPS0019	RE 26	SK3114	RT-126A	ECG159
Q7	829A	48-134830	GE-21	TR-20	PTC103	HEPS0019	RE 26	SK3114	RT-126A	ECG159
Q8	829C	48-134832	GE-21	TR-20	PTC103	HEPS0019	RE 26	SK3114	RT-126A	ECG159
Q9	54C	48-134810	GE-20	TR-21	PTC136	HEPS0015	RE 13	SK3124	RT-172	ECG123A
Q10	54B	48-134809	GE-20	TR-21	PTC136	HEPS0015	RE 13	SK3124	RT-172	ECG123A
Q11	P5R	48-137561	GE-58	TR-77	PTC162	HEPS5006	RE 41	SK3189	RT-155	ECG185
Q12	B1C	48-137473	GE-57	TR-76	PTC163	HEPS5000	RE 40	SK3188	RT-154	ECG184
Q13	P4V	48-137472	GE-58	TR-77	PTC162	HEPS5006	RE 41	SK3189	RT-155	ECG185

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C25	100 16V	23-42674B43	WBR100-16	MTA100E15	TVA-1160
C61	32 10V	23-41928A33	PC30-25	VTT33A10	EV-1125
C80	2 10V	23-43280A02		TDC225M035FL	SD35-2R29
C82	.2 15V	23-43280A33		TDC224M050EL	SD50-R229
C83	.5 6V	23-43280A04		TDC474M050EL	SD50-R479
C85	33 10V	23-42582B01		TDC336M10FL	SD10-339
C87	20 16V	23-41928A24	WBR25-25	TT15X20A	TVA-1147
C88	1 10V	23-10229A17		TDC105M035EL	SD35-19
C89	33 10V	23-42582B01		TDC336M10FL	SD10-339
C90	1000 10V	23-42674B42	WBR1000-16	TC1210D	TVA-1128
C94	100 16V	23-42674B43	WBR100-16	MTA100E15	TVA-1160
C100	400 16V	23-42674B10	WBR500-16	TT15X400	TVA-1161.5
C101	400 16V	23-42674B10	WBR500-16	TT15X400	TVA-1161.5
C102	1000 16V	23-41928A44	WBR1000-16	TC1501C	TVA-1163

# 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	22 N150 10%	21-43539A17			*	10TCP-Q22
C2	120 5%		DTZ-120		CN0312	10TCC-T12
C3	12 NPO 5%	21-43539A82			CN0412	10TCC-Q12
C4	2.2 NPO 10%		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C5	4.5 - 20	20-40429B03				
C6	.005		DC-502	GP5000	TA250	2SS-D50
C7	.005		DC-502	GP5000	TA250	2SS-D50
C8	27 10%	21-43842B06			CN0427	10TCC-Q27
C9	4.5-20	20-40429B03				
C10	72 10%		DTZ-75	NP075	CN0475	10TCC-Q75
C11	8 NPO 10%	21-43539A25				
C12	2.2 NPO 10%		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C13	.005		DC-502	GP5000	TA250	2SS-D50
C14	4.7 NPO ±.25	21-43539A74				
C15	220 5%	21-40367A07	DTZ-220			10TCC-T22
C16	220 5%	21-40367A07	DTZ-220			10TCC-T22
C17	8.2 N330 5%	21-43539A49			*	10TCS-V82
C18	3.9 N750 10%	21-43539A20				
C19	2.5-6	20-40429B02				
C20	.1 12V		DC-104	MGP1	MAG5001	TG-P10
C21	.001		DD-102	GP1000	GP210	2SS-D10
	.01 10%	8-42208B15				10TS-S10
C22	.001		DD-102	GP1000	GP210	2SS-D10
C23	.001		DD-102	GP1000	GP210	2SS-D10
C24	.001		DD-102	GP1000	GP210	2SS-D10
C26	.01		DC-103	GP10000	MAG5011	2SS-S10
C27	.01		DC-103	GP10000	MAG5011	2SS-S10
C28	.01		DC-103	GP10000	MAG5011	2SS-S10
C29	.01		DC-103	GP10000	MAG5011	2SS-S10
C30	.01		DC-103	GP10000	MAG5011	2SS-S10
C31	.01		DC-103	GP10000	MAG5011	2SS-S10
C32	.01		DC-103	GP10000	MAG5011	2SS-S10
C33	.01		DC-103	GP10000	MAG5011	2SS-S10
C34	.01		DC-103	GP10000	MAG5011	2SS-S10
C35	100 N330 5%	21-43539A59			*	10TCS-T10
C36	.01		DC-103	GP10000	MAG5011	2SS-S10
C37	.01 10%	8-42208B15				10TS-S10
C38	6.8 NPO 10% 500V		DTZ-6R8	NP06P8	CN0568	10TCC-V68
C39	220 10% 500V		DD-221		GP322	10TS-T22
C40	.01		DC-103	GP10000	MAG5011	2SS-S10
C41	.01		DC-103	GP10000	MAG5011	2SS-S10
C42	.01 10%	8-42208B15				10TS-S10
C58	270 N150 5% 125V				CD15FD271J03	424ME2700J501
C59	30-220	20-40647C13				
C60	.47 3V				DPMS2P47	1PB-P47
C62	.01		DC-103	GP10000	MAG5011	2SS-S10
C63	30-110					
	20-100	20-43979C01				
C64	220 N150 5% 630V				CD10FD221J03	424ME2200J501
C65	.01		DC-103	GP10000	MAG5011	2SS-S10
C66	.01		DC-103	GP10000	MAG5011	2SS-S10
C67	.0082 10%				DPMS6D82	1PB-D82
C68	30-110					
	20-100	20-43979C01				
C69	330 N150 5% 125V				CD15FD331J03	424ME3300J501
C70	.01		DC-103	GP10000	MAG5011	2SS-S10
C71	.01		DC-103	GP10000	MAG5011	2SS-S10
C72	220 10% 500V		DD-221		GP322	10TS-T22
C73	.01		DC-103	GP10000	MAG5011	2SS-S10
C74	.01		DC-103	GP10000	MAG5011	2SS-S10
C75	.01		DC-103	GP10000	MAG5011	2SS-S10
C81	.1 12V		DC-104	MGP1	MAG5001	TG-P10
C84	.01		DC-103	GP10000	MAG5011	2SS-S10
C86	.01		DC-103	GP10000	MAG5011	2SS-S10
C91	.01 10%		DD-103	GP10000	MAG5011	2SS-S10
C92	.001 500V	21-560232				
C93	.001 500V	21-560232				
C103	.001 500V	21-560232				
C104	.02		DC-203		MAG5012	2SS-S20

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	TRW PART No.
R76A B	Tone Volume/Power Switch	100K 50K Tap @ 7500	18-40656D01 18C40656D01 (5)			

(5) Number on unit.

MOTOROLA MODEL 5FM365A

## 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 (1uH)	24-64003B04		4602	(1) Part of M1 (Tuner).
L2	AM Ant	(1)			
L3	FM RF	(1)			
L4	FM Osc	(1)			
L5	10.7MHz Trap (1uH)	24-64003B04		4602	
L7	AM Ant	(1)			
L8	AM RF	(1)			
L9	AM Oscillator	(1)			
T1	IF (10.7MHz)	24-40087D01	24C40087D01-8		
T2	Quadrature	24-40250D01	24C40250D01		
T3	IF (262kHz)	24-64670B01	24C64670B01-0		
T4	IF (262kHz)	24-64670B02	24C64670B02-0		

### FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L10	160mH	.55	3.1mH	25-64172A37 25D64172A37 (1)			(1) Number on unit.

### 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	
E12	5A	9-42401B27	1-64964A32 (1)	AGA5	HAF	301005	150145		

(1) Includes Fuse.

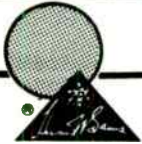
### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
E4	Filter	91-43353A53	10.7MHz, Ceramic (Matched Pair)
E5	Filter	91-43353A53	10.7MHz, Ceramic (Matched Pair)
M1	Tuning Coil Assembly	77-41900C75	AM/FM (Complete)
S1	Switch	40-42794C02	AM/FM
	Printed Circuit Board	84-40768D01	FM Tuner
	Printed Circuit Board	84-40766D01	AM-FM IF
	Printed Circuit Board	84-40762D01	Audio
	Printed Circuit Board	1-40800D03	Power Supply

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

ITEM	PART No.	ITEM	PART No.
Escutcheon	13-64661A01	Push-button, Tuning	38-563819
Scale, Dial	34-64529B02	Knob, Volume/Tuning	36-64336B01
Pointer Assembly, Dial	52-40055E01	Knob, Tone/Switch (AM/FM)	36-544812





# PHOTOFACT<sup>®</sup> with

# CIRCUITRACE<sup>®</sup>

For Supplier Address See PHOTOFACT Index



MODEL 12-1802

## 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.

REALISTIC MODEL 12-1802

## TROUBLE CHART

SYMPTOM	REMARKS
Capstan does not rotate.	Belt (B51) dirty, worn, or broken. Assembly (B16) binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch (SW2) dirty. Cam (B33) binding or worn. Pawls (B37) and (B38) worn. Spring (B40) weak or broken. Assembly (L101) binding. Solenoid (L101) defective or not supplied with power. Cartridge defective.
Wow or flutter	Belt (B51) 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.

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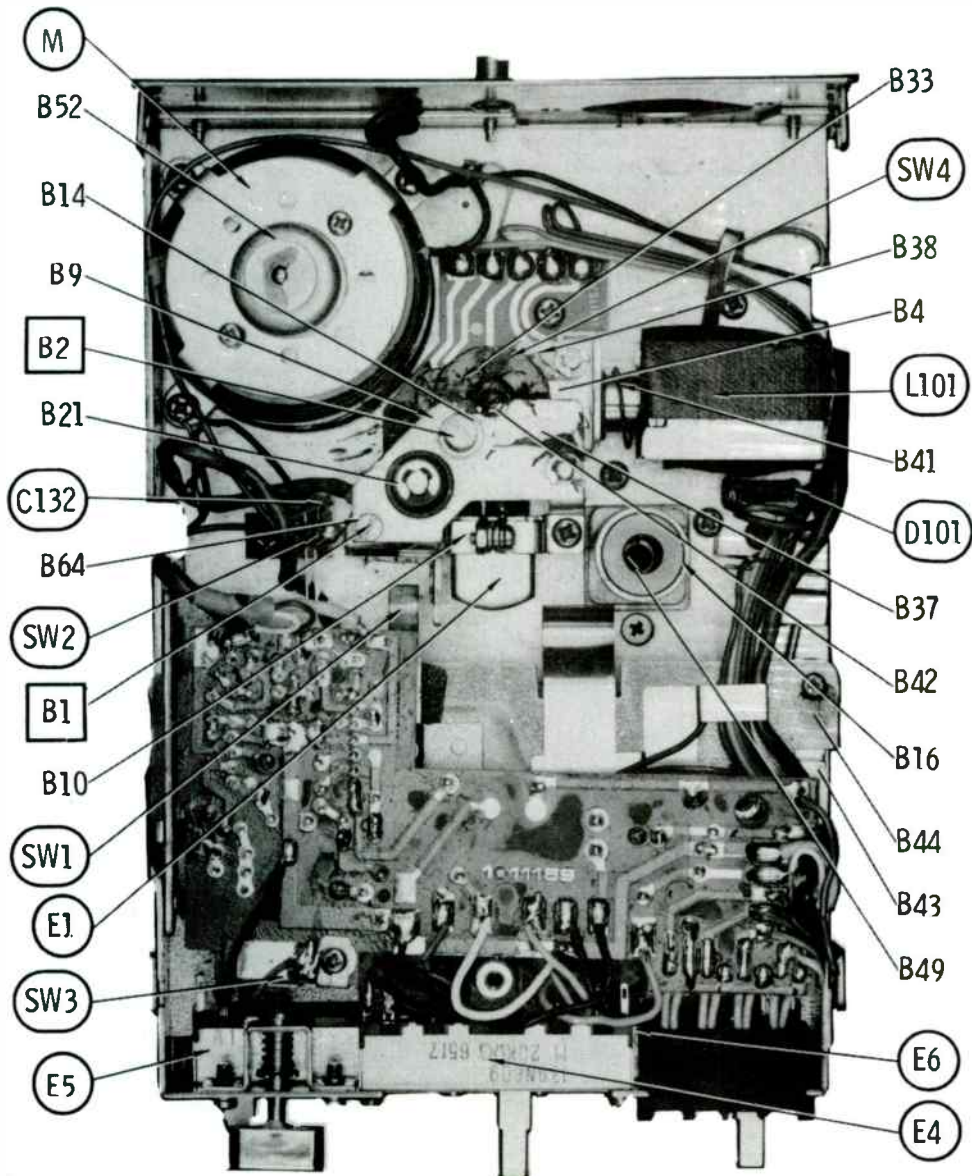
## MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
B9	23W9146	Head Shift Assembly	B40	HB3907	Pawl Spring
B10	HB4282	Head Clamp	B41	RB5541	Solenoid Spring
B14	RB5498	Height Tension Spring	B42	RB5499	Cam Tension Spring
B15	RA3230	Flywheel	B43	RB5501	Cartridge Detent
B16	HB3892	Flywheel Housing Assembly	B44	RB5502	Detent Spring
B21	RB5101	Head Return Spring	B49	H0494	Thrust Bearing
B33	HB3903	Track Changing Cam	B51*	B0304*	Flywheel Drive Belt*
B37	HB3904	Pull Pawl	B52	RA2301	Motor Pulley
B38	HB3906	Push Pawl	B64	RB5476	Azimuth Adjustment Spring

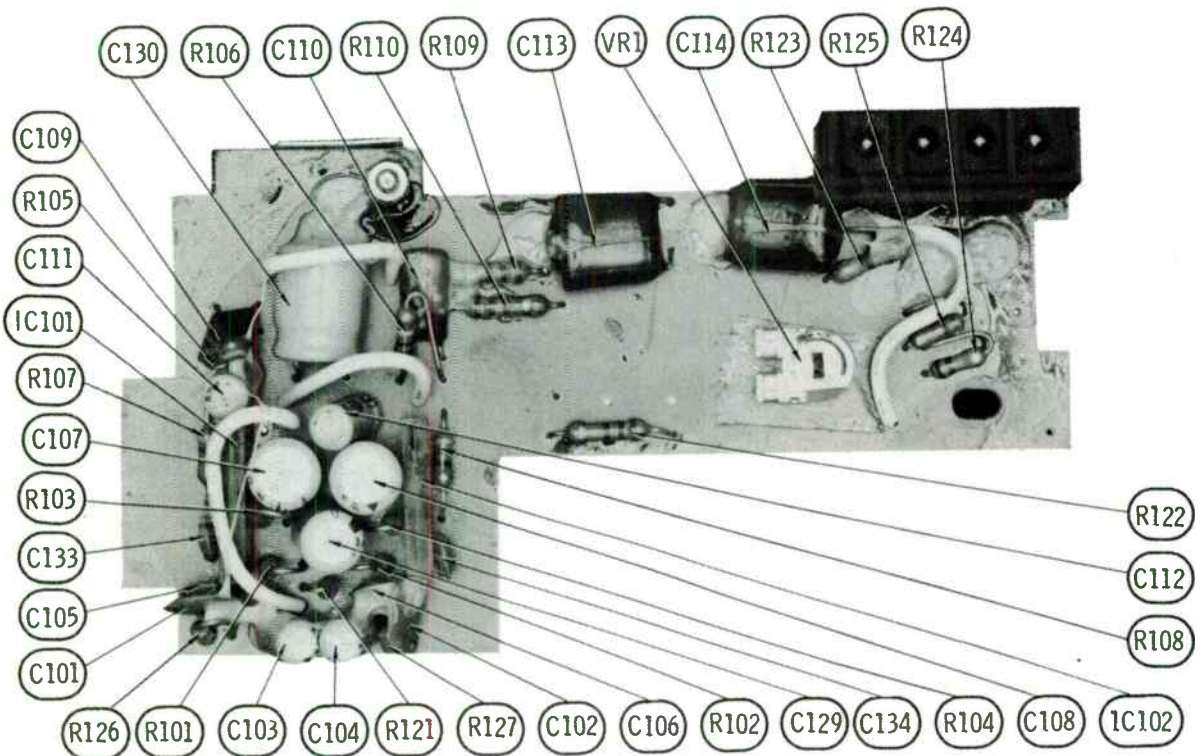
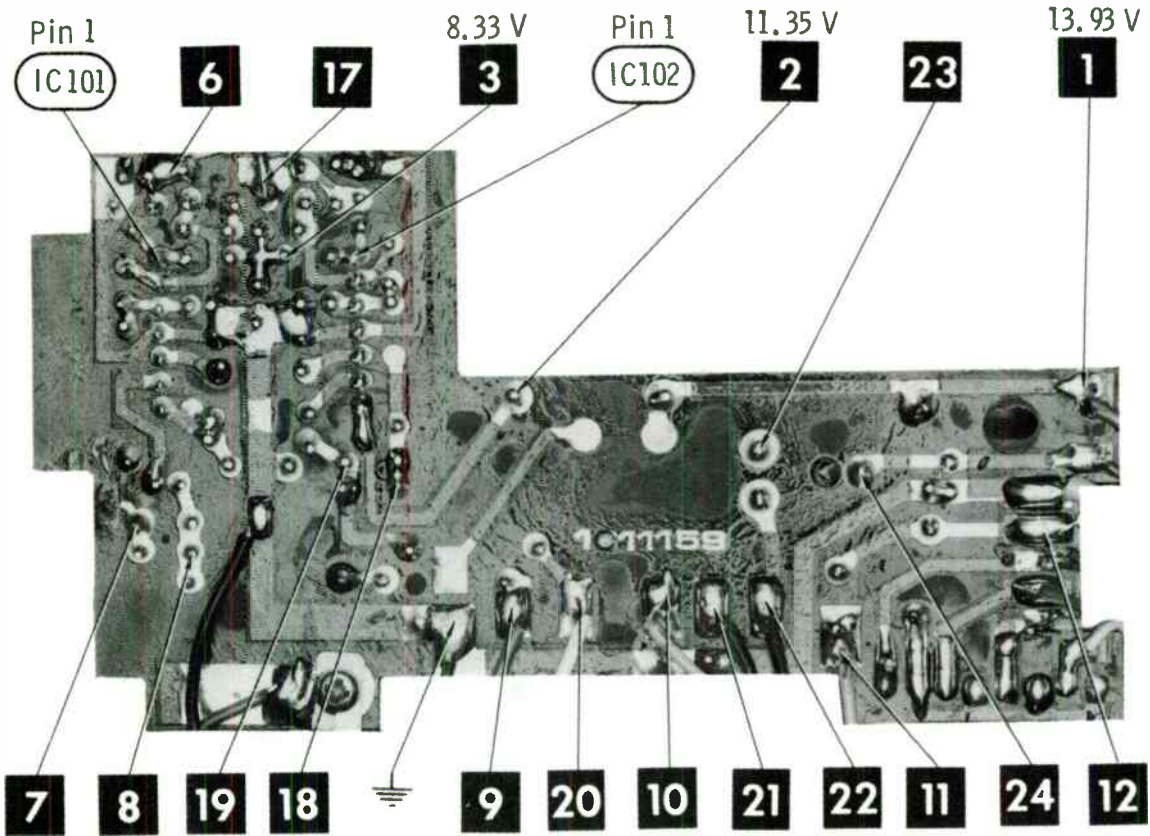
\* Flywheel Drive Belt: E-V/GAME Replacement Number 1424-15.  
WALSCO Replacement Number 1424-15.

## CLEANING LUBRICATING HEAD DEMAGNETIZING

Refer to  
"General Servicing Information"  
on page 4.



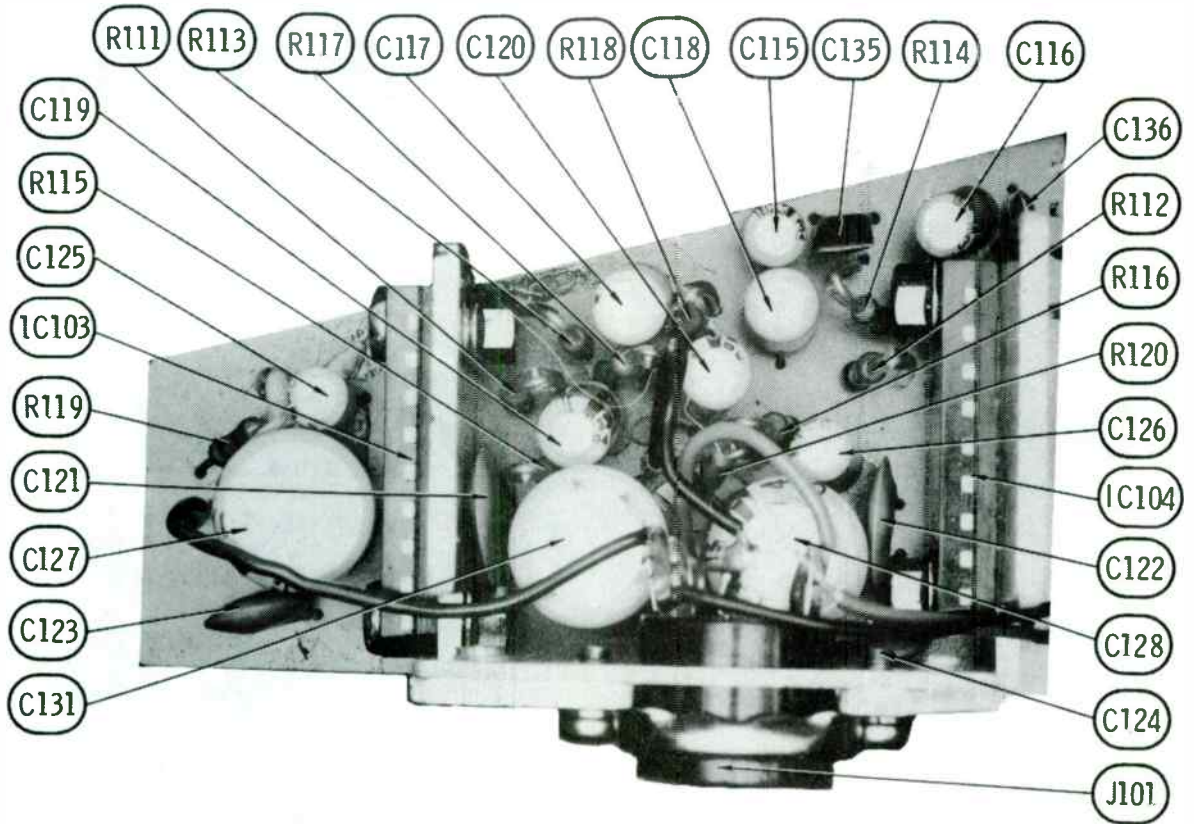
TAPE DECK



**PREAMP BOARD**

REALISTIC MODEL 12-1802





OUTPUT 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 Soms 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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D101	SR1K-2		GE-504A	5A4D	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116
	V06(1)		GE-504A	5A4D	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116
IC101	AN360									
IC102	AN360									
IC103	AN214Q		GEIC-49		PTC757					ECG1058
IC104	AN214Q		GEIC-49		PTC757					ECG1058

(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.
C103	3.3 25V	1204335	PC5-50	VTT3R3A50	EV-1318
C104	3.3 25V	1204335	PC5-50	VTT3R3A50	EV-1318
C107	47 6.3V	1201476	PC50-10	VTT47A6	EV-1026
C108	47 6.3V	1201476	PC50-10	VTT47A6	EV-1026
C111	3.3 25V	1204335	PC5-50	VTT3R3A50	EV-1318
C112	3.3 25V	1204335	PC5-50	VTT3R3A50	EV-1318
C115	3.3 25V	1204335	PC5-50	VTT3R3A50	EV-1318
C116	3.3 25V	1204335	PC5-50	VTT3R3A50	EV-1318
C117	47 10V	1202476	PC50-16	VTT47D16	EV-1226
C118	47 10V	1202476	PC50-16	VTT47D16	EV-1226
C119	33 10V	1202336	PC30-25	VTT33A10	EV-1125
C120	33 10V	1202336	PC30-25	VTT33A10	EV-1125
C125	10 10V	1202106	PC10-25	VTT10A25	EV-1222
C126	10 10V	1202106	PC10-25	VTT10A25	EV-1222
C127	470 10V	1202476	PC500-16	VTT470J16	EV-1150
C128	470 10V	1202476	PC500-16	VTT470J16	EV-1150
C129	33 16V	1203336	PC30-25	VTT33D25	EV-1325
C130	100 16V		PC100-16	VTT100F16	EV-1230
C131	470 16V	1203477	PC500-16	VTT470J16	EV-1250

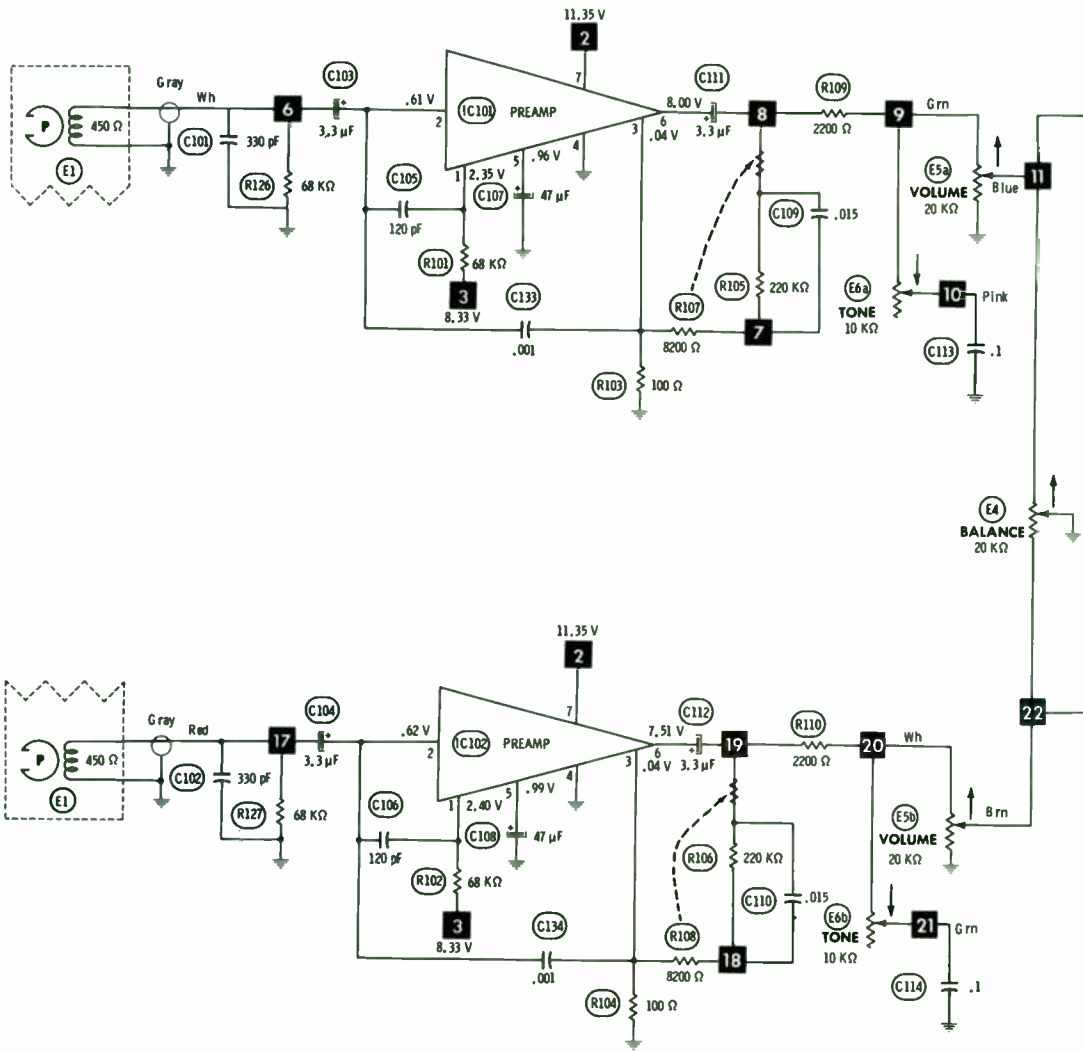
## CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALLAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C101	330		DD-331	GP330	GP333	10TS-T33
C102	330		DD-331	GP330	GP333	10TS-T33
C105	120		DTZ-120		CN0312	10TCC-T12
C106	120		DTZ-120		CN0312	10TCC-T12
C109	.015		DC-203		MAG5012	2SS-S20
C110	.015		DC-203		MAG5012	2SS-S20
C113	.1		DC-104	MGP1	MAG5001	TG-P10
C114	.1		DC-104	MGP1	MAG5001	TG-P10
C121	680		DD-681	GP680	GP368	10TS-T68
C122	680		DD-681	GP680	GP368	10TS-T68
C123	.2		DD-681	GP680	GP368	10TS-T68
C124	.2			DPMS2P2	PVC602	2PS-P20
C132	.04			DPMS6P15	EFW6015	6PS-P15
C133	.001				GP140	5GA-S40
C134	.001		DD-102	GP1000	GP210	2SS-D10
C134	.001		DD-102	GP1000	GP210	2SS-D10
C135	.0047		DD-472	GP4700	GP247	2SS-D47
C136	.0047		DD-472	GP4700	GP247	2SS-D47

CONTINUED ON PAGE 116.

REALISTIC MODEL 12-1802

**NOTE: DEMAGNETIZE HEADS AFTER SERVICING**



Terminal Guides



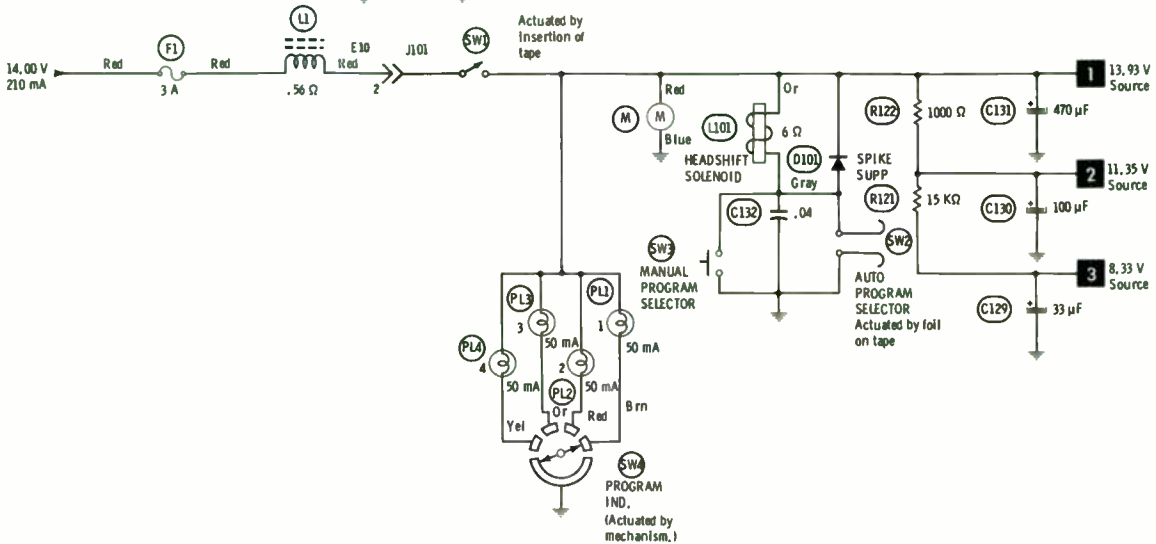
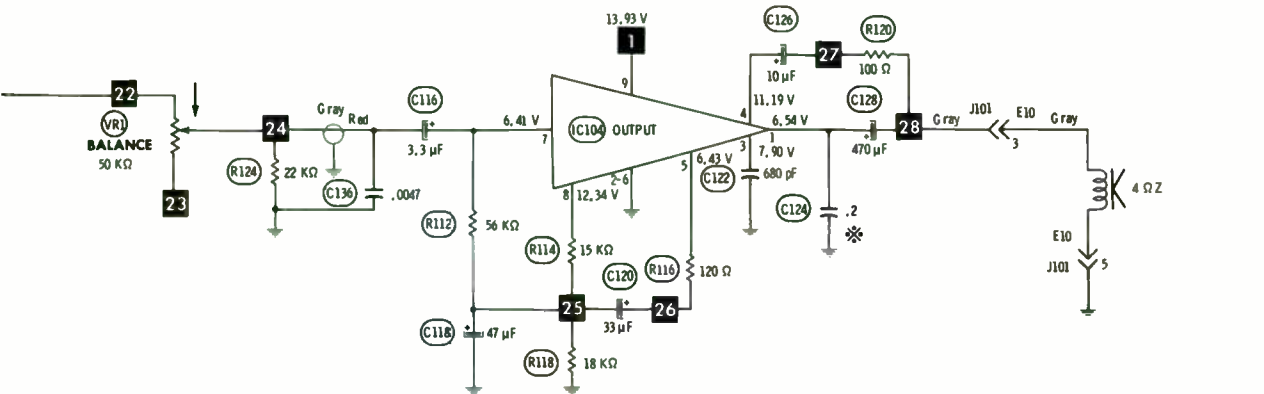
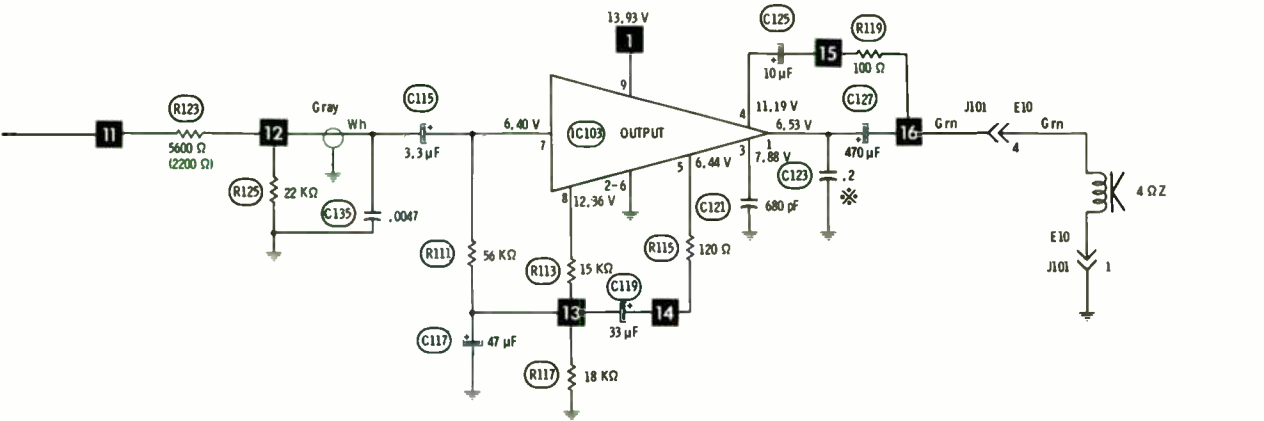
- Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- \* Nominal value
- ⊕ Ground
- ⏏ Chassis
- ▽ Common tie point

Measurements with switching as shown unless noted:  
 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.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE**

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## 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	RESISTANCE	REPLACEMENT DATA				
			MFRG. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
E4	Balance	20K	139N609				
E5a	Volume-Left	20K	139N500				
E5b	Volume-Right	20K					
E6a	Tone-Left	10K	139N465				
E6b	Tone-Right	10K					
VR1	Balance	50K	P1588				

### COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (1mH)				

### 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	3A			AGC3	HDJ	312003	150145	FG3-2

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
E1	Tape Head	H4271	8-Track Stereo Play Audio Amp Preamp Power/Speaker (Male) Power/Speaker (Female) Head Shift Tape Transport (2000 rpm @ 13.93V) Power Auto Program Selector Manual Program (Contact) Manual Program (Plate) Program Indicator (Contact) Program Indicator (Printed Board)
E8	Printed Circuit Board	X7043	
E9	Printed Circuit Board	X7044	
E10	Connector Assembly	1720269	
J101	Connector	J-0753	
L101	Solenoid	S9064	
M	Motor	M4276	
SW1	Switch	S0704	
SW2	Switch	S0613	
SW3	Switch	HB1161	
SW4	Switch	S0703	
		S0705	
		X7042	

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

ITEM	PART No.	ITEM	PART No.
Escutcheon (Front Panel)	Z2518	Door Spring, Tape	RB5503
Door, Tape	DA0159	Push-button, Manual Program	K1998
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980051 60	12	9341624 (34BPB1) 73	139	9342586 74	178	118PBT1 71	102	618VBP1 76 (Pg.87)	186	987893 59	10
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980635 63	21	9345480 75	192	CT-3882M	196	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988465 61	15
980649 64	25	9345490 75	192	CT-3900	148	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988466 61	15
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980659 64	25	9345500 (50BPB2) 75	190	CT-4400	197	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988469 61	15
980869 65	29	9345510 75	210	CT-4800	119	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988470 61	15
981059 66	35	9345534 75	188	CT-8000	123	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988471 61	15
981059 66	35	9345544 75	188	CT-8000A	189	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988472 61	15
981320 53	4	9345554 75	189	CT-8104A	191	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988473 61	15
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981550 54	4	9347740 76	221	CT-8359	173	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988476 61	15
981551 54	4	9347980 75-76	220	CT-8500-4	132	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988477 61	15
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981707 56	6	9349490 (Pg.103)	188	CTI-8999	123	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988480 61	15
981708 56	6	CADILLAC		CTI-8882	157	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988481 61	15
981813 57	7	05CFP1 70	76	CTI-8102	143	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988482 61	15
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981902 58	8	05CFM1 70	93	CTI-8599	149	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988484 61	15
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981969 59	11	05CFM2/MMK1 70	78	X-8020	150	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988487 61	15
981970 59	11	05CT411 70	83	X-8030/A	189	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988488 61	15
7285424 65	30	05CT412 70	83	X-8100	119	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988489 61	15
7285444 65	31	15CFM1/15CFM2 71	96	X-8100	119	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988490 61	15
7288794 65	31	15CFM1 71	114	X-8100	119	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988491 61	15
7289714 65	30	15CFM2 71 (Sim. to Pg.29)	100	514FS	211	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988492 61	15
7289734 65	30	15CFM2 71 (Sim. to Pg.29)	100	CENTURY		21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988493 61	15
7289754 65	31	15CFM1 71	102	(See Roman Astrosexlix)		21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988494 61	15
7289774 65	31	15CFM2 (Sim. to Pg.19)	102	CHANEL MASTER		21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988495 61	15
7293604 66	35	15CT411 71	97	6203	116	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988496 61	15
7293614 66	36	25CFM1/MT2	114	6204	113	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988497 61	15
7293634 66	37	25CFM1 (7937005) 72	112	6205	116	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988498 61	15
7293644 66	37	25CFM2 (7935015) 72	112	6206	113	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988499 61	15
7293654 66	37	25CFM1/MM2 72	110	6207	223	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988500 61	15
7293674 66	36	25CT411 72	112	6282	122	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988501 61	15
7293684 66	37	36CFM1 73	139	6283	126	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988502 61	15
7293914 66	37	36CFM2 73	142	6284	129	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988503 61	15
7293944 66	36	36CFM1 73	144	6285	125	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988504 61	15
7298904 67	44	36CFM2 73	178	6286	125	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988505 61	15
7298914 67	44	46CFM1/T2 74	170	6287	154	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988506 61	15
7298924 67	44	46CFM2 74	175	6288	154	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988507 61	15
7298934 67	43	46CFM1 74	178	6289	183	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988508 61	15
7298944 67	45	46CFM2 74	179	6291	121	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988509 61	15
7298954 67	44	56CFM1/T2/T3 75	194	6292	119	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988510 61	15
7298964 67	43	56CFM2 75	213	6294	158	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988511 61	15
7298974 67	45	56CFP1 75	190	6295	152	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988512 61	15
7302504 68	54	56CFM1/M2 75	192	6296	156	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988513 61	15
7302514 68	50	66CFP1 76 (Pg.35)	190	6297	157	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988514 61	15
7302524 68	51	66CFM1 76 (Pg.39)	190	6317	103	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988515 61	15
7302524-B 68	58	95CFM2 69 (Pg.39)	63	6318	142	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988516 61	15
7302534 68	51	95CFM3 69	63	6319	188	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988517 61	15
7302544 68	51	95CFM4 69	63	6378	188	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988518 61	15
7303984 68	48	95CFM5 69	63	6379	188	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988519 61	15
7304884-A 68	51	95CFM6 69	63	6380	223	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988520 61	15
7306914 69	70	95CFM7 69	63	6381	185	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988521 61	15
7306934 69	70	95CFM8 69	63	6382	185	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988522 61	15
7306964 69	70	95CFM9 69	63	6383	185	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988523 61	15
7307554 72	112	95CFM10 69	63	6540	21	21AFM1 72 (Sim. to Pg.19)	75	91BPM2 69	59	988524 61	15
7313514 (14AFP1) 71	101	95CFM									





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D2D-19A241-AA 72	133	T7SMZ 66	45	SMF 55	5	657	101	CS-133	103	7BT	45
D2HA-18806 72	126	T8MF 68	51	SMF 55	5	805,807	87	CS-214	166	7BTX	52
D2HA-18806 73	138	T8MS 68	53	SMFS/58 55	5	912	103	CS-1000TC	111		
D2HA-18810 (2BTT) 72	114	T8M2 68	51	SPN2318 73	178	920	101	CS-1050IC	123	JCPenney	
D2HA-18810 (2BMT) 72	138	T9MS 69	62	SPN2411 74	179	950, 952	87	CS1100IC	103		
(Sim. to Pg. 51)	59	T9M2 69	66	SPN2513 75	200			CS-1150IC	123	0110	193
D2QA-18806 73	138	TF86AA 74	181	STBF 65	28	GM (See GMC or Chevrolet)		CS-1440IC	153	981-0100	134
D2SA-19A242-AH 72	135	TOBSTBS 65	32	STBO 65	28			CS-1700IC	123	981-0101	119
(Pg. 57)	135	TOBSTBS 66	39	STBT 65	33			CS-1750IC	143	981-0103	195
D2TA-19A241-125 72	126	OTBT 70 (Sim. to Pg. 51)	59	STBU 65	33	GMC		CSK-1300 IC	148	981-0105	121
D2TA-18806 72	126	OTBT 70 (Pg. 51)	59	STMF 65	28	01TPB1/B2 70	101	KM1001	38	981-0110	193
D2TA-18806 72	126	OTBT 70	83	STMS/SF 65	28	06TCFP2 70	92	KM-1520H	129	981-0115	141
D2UA-18806 72	126	OTM/TP/TP 70	77	STMZ 65	28	06TTCP1 70	74	TM-816U	37	981-0140	196
D2UA-18806 73	138	ORTT 70 (Sim. to Pg. 51)	59	STPD 65	28	06TTA11 70	84	TRQ-206	116	981-0161	164
D2ZA-19A241 72	127	ORTU 70	77	STPO 65	28	06TT412 70	93			981-0165	137
D2ZA-19A242-AF 72	135	ORTW 70 (Sim. to Pg. 51)	59	STPZ 65	28	16TFP1 71	104	HOFFMAN		981-0166 (Sim. to Pg. 79)	137
D2ZA-18806 72	129	OFB 70	75	6A-D6DA-18806AA 76	221	16TRMP1 71	96	769	28	981-0180	166
D3AA-19A168-AD 73	155	OFB 70 (Pg. 59)	73	6BF 56	6	16TTCP1 71	96	769 (Rev.)	31	981-1373	194
D3AA-19A241 73	137	OFBF (EP) 70	81	6BTB 66	36	16TT411 71	97			981-1506	166
D3AA-19A241 73	137	OFBF 70	73	6BTB 66 (LP)	41	16UT411 71	97	HUDSON (Also see American Motors)		981-1514 (Sim. to Pg. 79)	137
D3DA-18806 73	136	OFBO 70	79	6TBF 66	34	26TCFP/P3 72	127			981-2230	194
D3DA-19A241 73	137	OFBSW 70	96	6TBT 66	36	26TFP1 72	117	HNSAC-8 55	6	981-4021	30
D3TA-18806A 73	138	OFBZ 70	79	6TBT 66, 67 (LP)	41	26TRMP 72	110	SH758 53	4	981-4031	30
D3TA-18806B 73	138	04BF 60 (EP)	12	6TBU 66, 67	36	26TTCP2 72	110	SH759 53	4	981-5225	125
D3ZA-19A242-AB 73	153	04BF 60 (LP)	10	6TBU 66, 67 (LP)	41	26TT411 72	124	236476 53	4	981-5937	196
D3ZA-18806 73	136	04MF 60	32	6TBM 66, 67 (LP)	41	26TT411 72 (PCB AR-151)175	117	236486 53	4	981-7479	164
D4AA-19A168-AA 74	183	04MF 60	12	6TBM 67 & 69	59	35RMT1 73 (PCB AR-151)175	117	238060 53	4	981-7553	193
D4AA-19A168-BA 74	181	04MFM 60	12	6TBM 67 & 69	59	41BPM1 74	174	4389027 55	6	982-0093	30
D4AA-19A241AA 74	174	1BTB 71 (Sim. to Pg. 51)	59	6TBM 67 & 69	59	41BPM2 74	169			984-8227	29
D4AA-18806AA 74	171	1BTB 71 (Pg. 51)	115	6TBM 66	36	41BPK1 74	165			984-8243	29
D4AB-18810AA 74	172	1BTB 71	94	6TDP 66	36	41TPB1 74	167			985-2757	195
D4AA-19A171-BA 74	178	1BTT 71 (Sim. to Pg. 51)	59	6TDP 66	36	45RFTM1 74 (PCB AR151)175	167	TM10AM (60-299)	77	985-6816	30
D4HA-18810AA 74	170	1BTT 71 (Pg. 51)	59	6TDP 66	36	45TFP1 74 (Pg. 25)	127			985-6907	141
D4HA-18810-BA 74	172	1BTW 71 (Sim. to Pg. 51)	59	6TDP 66	36	45TPB1, 45TTCP1 74	167	IMPERIAL (See Chrysler or MoPar)		985-8341	30
D4TA-19A241AA 74	174	1FRAM 74	178	6TDP 66	36	45TPB1 75	189			985-8358	29
D4TA-18806AA 74	171	1FRM 74	178	6TDP 66	36	45TPB1 75	186	INLAND DYNATRONICS		985-8374	30
D4TA-18806BA 74	170	1FRM 74	178	6TDP 66	36	45TPB2 75	217			985-8390	30
D4TA-18810AA 74	172	1FRM 74	180	6TDP 66	36	45TTCP1 75	186			2230	194
D4UA-18806AA 74	170	1FBF 71	94	6TDP 66	36	45TTCP2 75	217	AF-604	124	3104	29
D5AA-19A168 75	186	1FBO 71	94	6TDP 66	36	60APB1 76 (Pg. 29)	192	AFM-602	41	3108 58-63 VW	29
D5AA-19A168-BD 76	222	1FBO 71	98	6TDP 66	36	60HFM1 76 (Pg. 57)	191	AFM-603	52	3114 63 Ford	29
D5AA-19A241 76 (Sim. to Pg. 61)	188	1FBO 71	98	6TDP 66	36	60HPB1/BK1 76 (Pg. 65)	187	AFX-802	182	3118	30
D5DA-19A168-AA 75	199	1FBSS 71	100	6TDP 66	36	65DHPB1 76 (Pg. 87)	186	AT-830	135	3120 58-63 VW	29
D5DA-19A171-AB 75	200	1FBSS 71	100	6TDP 66	36	65TCFP1 76 (Pg. 85)	189	AT-830 (Sim. to Pg. 71)	135	3121	30
D5HA-18810AA 76 (Sim. to Pg. 49)	172	1FBTP 71	94	6TDP 66	36	65TCPB1 76 (Pg. 87)	186	AKT-838	151	3122	30
D5MA-19A168AA 76 (Sim. to Pg. 55)	186	1FBTP 71	98	6TDP 66	36	86T431 68	73	AKT-885	59	3129	30
D5SA-19A168 75	186	1FBZ 71	98	6TDP 66	36	98T411 69	59	CTX-50	214	3138	29
D5SA-19A241 75	188	1FBZ 71	98	6TDP 66	36	98T412 69	73	FM-404	125	3143	30
D6AA-19A168-BD 76	222	1FBZ 71	98	6TDP 66	36	98T412 69	73	FM-404	125	3144	30
D6AA-19A242-AA 76	223	1FBZ 71	98	6TDP 66	36	98T412 69	73	FM-404	125	3146	30
D6AA-18806AA 76	221	1FD4103 71	104	6TDP 66	36	98T412 69	73	FM-404	125	3146	30
D6TA-19A241 76 (Sim. to Pg. 61)	188	1FD4217 72	135	6TDP 66	36	98T412 69	73	FM-404	125	3151	30
D6TA-18806AB 76 (Sim. to Pg. 85)	171	1FD4302 73	155	6TDP 66	36	98T412 69	73	FM-404	125	3160 64 Chev.	29
D7A-18806 72	125	1FD4505 76	222	6TDP 66	36	98T412 69	73	FM-404	125	3161 63-64 Chev.	29
D7A-18806 72	125	1FD4510 75	199	6TDP 66	36	98T412 69	73	FM-404	125	3162 63-64 Chev.	29
D7A-18806 72	125	1FD4511 76	222	6TDP 66	36	98T412 69	73	FM-404	125	3163 64 Merc.	29
D7A-18806 72	125	1FD4607 76	223	6TDP 66	36	98T412 69	73	FM-404	125	3168 64 Ford	30
D7A-18806 72	125	1FD4608 76	223	6TDP 66	36	98T412 69	73	FM-404	125	3169 64 Ford	30
D7A-18806 72	125	1FD5001 70	80	6TDP 66	36	98T412 69	73	FM-404	125	3170 64 Ford	30
D7A-18806 72	125	1FD5003 70	87	6TDP 66	36	98T412 69	73	FM-404	125	3171 64 Olds.	29
D7A-18806 72	125	1FD5101 71	106	6TDP 66	36	98T412 69	73	FM-404	125	3172 64 Ford	30
D7A-18806 72	125	1MA2119 71	108	6TDP 66	36	98T412 69	73	FM-404	125	3173 64 Merc.	30
D7A-18806 72	125	1MA2233 72	133	6TDP 66	36	98T412 69	73	FM-404	125	3174 64 Olds.	29
D7A-18806 72	125	1MA2400 70	86	6TDP 66	36	98T412 69	73	FM-404	125	3176 63-64 Pont.	29
D7A-18806 72	125	1MA2418 72	135	6TDP 66	36	98T412 69	73	FM-404	125	3179 64 Pont.	29
D7A-18806 72	125	1MA2434 73	153	6TDP 66	36	98T412 69	73	FM-404	125	3180 64 Chev.	29
D7A-18806 72	125	1MA2507 75	108	6TDP 66	36	98T412 69	73	FM-404	125	3181 60-64 Chev.	29
D7A-18806 72	125	1MA2517 72	135	6TDP 66	36	98T412 69	73	FM-404	125	3182 63-64 Chev.	29
D7A-18806 72	125	1MA2523 72	133	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2537 72	133	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2540 70	86	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2541 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2542 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2543 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2544 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2545 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2546 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2547 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2548 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2549 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2550 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2551 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2552 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2553 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2554 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2555 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2556 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72	125	1MA2557 71	108	6TDP 66	36	98T412 69	73	FM-404	125		
D7A-18806 72											



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AR57156	.....158	R-905	.....182	1MFL250	.....164	8TBM 68	.....55	8TBM 68	.....55	78V 67 Ply.	.....48
AR60083	.....158	R-915	.....186	19842A91	.....164	9BM 69	.....68	9BM 69	.....68	78VBD 67 Dodge	.....48
0BTJD 70	.....78	R-925	.....181	MASTERNORK		9FBM 69	.....78	9FBM 69	.....78	78VBP 67 Ply.	.....48
1AR4231	.....110	R-945	.....177	M8200	.....72	9FBO 69	.....64	9FBO 69	.....64	78VBD 67 Ply.	.....48
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1LD1245	.....158	C91A-19A242-B 69	.....66	3MM418 (74)	.....215	D52A-19A241-75	.....170	D52A-19A241-75	.....170	13BS 61 Desoto	.....16
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7SMJD 71	.....110	C9VA-19A241 69	.....71	65-202	.....124	ED1-D1GA-19A241 71	.....97	ED1-D1GA-19A241 71	.....97	24B1 62 Chry.	.....18
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1KW2915 72	.....126	D2SA-19A242-AA 72	.....135	65-412	.....186	F8TBO 68	.....56	F8TBO 68	.....56	109 61 Ply.	.....15
SSMKW	.....39	D2SA-19A242-AA 74	.....135	65-481	.....107	F9BZ 69	.....64	F9BZ 69	.....64	110 60 Ply.	.....15
6SMKW	.....48	(Pg. 57)	.....135	65-482	.....103	M7TB 67	.....9	M7TB 67	.....9	112 60 Desoto	.....14
KINEMATIX		D2VA-19A241 72	.....127	65-484	.....103	M-5841 58	.....47	M-5841 58	.....47	113 61 Ply.	.....15
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Verba-Mite VX-700	.....42	(Pg. 57)	.....135	65-490	.....207	OFBG 70	.....81	OFBG 70	.....81	202 62 Dodge	.....18
KRACO		D2VA-18806 72	.....126	65-501A	.....121	OFBM 70	.....85	OFBM 70	.....85	203 62 Ply.	.....18
KID-550	.....161	D3AA-19A168-AD 73	.....155	65-501B	.....120	OFBW 70	.....81	OFBW 70	.....81	204 62 Ply.	.....17
KID-560A	.....204	D3SA-19A241 73	.....137	65-502	.....123	R2TBM 62	.....20	R2TBM 62	.....20	205 62 Dodge	.....17
KID-570A	.....205	D3VA-19168-AC 73	.....155	65-505	.....119	T2SM 66	.....35	T2SM 66	.....35	206 64 Dodge	.....24
KIS-44A	.....166	D4AA-19A168-AA 74	.....183	65-506	.....123	T2SMH/A 67	.....45	T2SMH/A 67	.....45	214 63 Ply.	.....19
KQ-600	.....173	D4AA-19A168-BA 74	.....181	65-509	.....157	T2SMH/F 67	.....45	T2SMH/F 67	.....45	215 63 Dodge	.....19
KR-1100	.....159	D4AA-19A241AA 74	.....174	65-516	.....200	T7SMH/6 57	.....45	T7SMH/6 57	.....45	216 63 Ply.	.....22
KR-1110	.....163	D4AA-18806AA 74	.....183	65-528	.....149	T7SMH/N 67	.....45	T7SMH/N 67	.....45	217 63 Dodge	.....22
KR-1120	.....160	D4VA-19A168-AA 74	.....181	65-531	.....163	T7SMH 67	.....45	T7SMH 67	.....45	218 64 Ply.	.....24
KR-1130	.....162	D4VA-19A241AA 74	.....174	65-532	.....178	T7SMH 67	.....45	T7SMH 67	.....45	219 64 Dodge	.....23
KR-1220	.....203	D4VA-18806BA 74	.....171	65-534	.....198	T7SMH 67	.....45	T7SMH 67	.....45	220 64 Ply.	.....23
KR-1230	.....209	D5SA-19A168 75	.....186	65-540	.....161	T8M 68	.....54	T8M 68	.....54	221 64 Ply.	.....23
KS-340	.....197	D5SA-19A241 75	.....188	65-550	.....158	T8M2N 68	.....54	T8M2N 68	.....54	222 65 Ply.	.....28
KS-400B	.....167	D5VA-19A168 75	.....186	65-560	.....165	T9MM 69	.....81	T9MM 69	.....81	223 65 Dodge	.....28
KS-400C	.....210	D5VA-19A241 75	.....188	65-562	.....198	TF84AX 74	.....181	TF84AX 74	.....181	224 65 Ply.	.....28
KS-425 (Adam II)	.....141	D5VA-19A168 75	.....186	65-565	.....205	OBM 70	.....77	OBM 70	.....77	225 65 Ply.	.....28
KS-430	.....158	D5VA-19A241 75	.....188	65-566	.....208	04BM-1 60	.....13	04BM-1 60	.....13	226 65 Dodge	.....28
KS-440	.....160	TOBSTBC 65	.....33	65-576	.....199	04BM-2 60	.....13	04BM-2 60	.....13	227 66 Ply.	.....37
KS-450	.....168	T6SMC 66	.....36	65-589	.....202	1CP1047 71	.....102	1CP1047 71	.....102	228 66 Dodge	.....37
KS-480	.....207	T6SMC 67	.....45	MERCURY		1CP1323 73	.....153	1CP1323 73	.....153	230 66 Ply.	.....37
KS-555	.....169	T7SMK/C 67	.....45	(Also See Ford)		1CP2033 71	.....109	1CP2033 71	.....109	231 66 Ply.	.....37
KS-666B	.....165	T8ML 68	.....45	C80A-19A049E 71	.....106	1CP2235 72	.....135	1CP2235 72	.....135	232 66 Dodge	.....35
KS-690	.....199	T8MX 68	.....52	C9AA-19A127C 70	.....80	1CP2417 74	.....182	1CP2417 74	.....182	M-160	.....12
KS-750	.....199	T9ML 69	.....64	C9AA-19A241 69	.....88	1CR4005 70	.....86	1CR4005 70	.....86	MC-40	.....12
(Marquis M-750)	.....143	T9MX 69	.....66	C9MA-19A242 69	.....78	1F1RAM 74	.....178	1F1RAM 74	.....178	MC-160	.....12
KS-800	.....173	TF864AX 74	.....181	D0GA-19A241 70	.....81	1F2RPM 74	.....178	1F2RPM 74	.....178	235 66 Ply.	.....35
KS-890	.....171	OBLS5 70	.....82	D0MA-19A242 70	.....85	1F3RMA 74	.....180	1F3RMA 74	.....180	236 67 Ply.	.....42
LAFAYETTE		OFBL 70	.....75	D0MA-18806 70	.....77	1FBA 71	.....98	1FBA 71	.....98	237 67 Dodge	.....43
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Stereo 88	.....91	1FD4302 73	.....155	D0RJ-19A241A 71	.....109	1FBM 71	.....98	1FBM 71	.....98	302 60 Dodge	.....13
99-8519	.....68	1LN4213 72	.....135	D0RJ-18806A 71	.....102	1FBM 71	.....98	1FBM 71	.....98	303 60 Chry.	.....13
99-15521W	.....91	1LN4306 73	.....155	D0WA-19A241 70	.....81	1FBM 71	.....98	1FBM 71	.....98	304 60 Desoto	.....13
LARK (See Studebaker)		1MT002 70	.....92	D0WA-19A241 70	.....81	1FBM 71	.....98	1FBM 71	.....98	305 60 Dodge	.....13
LEAR JET		1RFX211 72	.....135	D0WA-19A242 70	.....86	1FBM 71	.....98	1FBM 71	.....98	306 61 Dodge	.....16
A-20	.....176	2BL/LAF 72	.....126	D0WA-19A242 70	.....85	1FBM 71	.....98	1FBM 71	.....98	309 61 Ply.	.....16
A-25	.....141	2FB1 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	310 60 Ply.	.....16
A-26 (Pg. 57)	.....141	2FB2 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	311 61 Ply.	.....16
A-40	.....143	2FB3 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	312 61 Desoto	.....16
A-46	.....204	2FB4 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	313 60 Dodge	.....14
A-50	.....147	2FB5 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	314 61 Dodge	.....16
A-55	.....147	2FB6 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	315 61 Ply.	.....16
A-70 (Pg. 51)	.....162	2FB7 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	316 61 Chry.	.....15
A-71	.....213	2FB8 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	322 62 Ply.	.....17
A-75	.....162	2FB9 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	323 62 Dodge	.....17
A-80/85	.....185	2FB10 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	324 62 Ply.	.....17
A-90	.....205	2FB11 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	327 62 Chry.	.....17
A-120 (Ser. #	.....150	2FB12 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	330 63 Ply.	.....21
A-125 (Ser. #	.....190	2FB13 72	.....94	D0MA-18806 70	.....77	1FBM 71	.....98	1FBM 71	.....98	331 63 Dodge	.....21
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369 7FBP 67 Ply.	48	BK63 63 Buick	22	HN46 54 Hudson	5	VNM64 58-64 VW	25	891600	24	33AFMT2 (7935053)		73 F-85	144
370 67 Dodge	48	BK64 64 Buick	24	HNS36 51-53 Hudson	5	03AR (See Amer.Motors		980886 64 Opel	26	33AFP1 (7938323)		73 F-85	146
372 (Pg. 86) 65 Ply.	30	CA61 61 Buick, Olds,		HT36 53 Hudson	5	8990811	12	Chassis		73 F-85		33AFP2 (9342563)	146
373 (Pg. 86) 65 Dodge	30	Pont.	16	ILSTCA-12 55 Intl.	6	04MA 60 Amer. Motors		R15A6	5	73 F-85		33AFP3 (9346143)	142
374 67 Ply.	48	CA62 62 Buick, Olds,		KM201R	41	(Pg. 19)	11	R17A6	5	73 F-85		33APB2 (7936143)	147
375 67 Chry.	48	Pont.	20	KM202R	41	04HD/ME/MPH (Pg. 77)	12	MUNTZ/STEREO		73 F-85		33APB1 (7938003)	142
376 78C 67 Chry.	42	CA63 61-63 Buick, Olds,		KM203R	66	1C2RPM4 (Pg. 43)	17	C-90	50	73 F-85		33APB2 (7938005)	147
376 (2820635 68 Chry.)	51	Pont.	22	KM204R	64	1CSRX04 (Pg. 39)	180	C-100	50	73 F-85		33APB1 (7935043)	140
377 67 Dodge	48	CA64 64 Chev.	24	KR3A6 51-53 Kaiser	5	1CSRX04	204	M-12	53	73 F-85		33BPM1 (7937953)	139
378 67 Dodge	48	CE65A 65 Chev.	32	NH3C 53 Nash	4	2AT-1	21	M-30	52	73 F-85		73 Olds, Toronado	145
379 66 Dodge	36	CE66A 66 Chev.	38	NH4AC 54 Nash (See		ZMP2031	127	M-40	57	73 F-85		33BPM1 (7937953)	140
381 67 Dodge	43	CE66M 66 Chev.	39	AC-154)	5	ZMT	20	M-45	64	73 F-85		73 Olds, Toronado	146
385 67 Dodge, Ply.	48	CE67A 67 Chev.	44	NH5AC 55 Nash (See		ZTMF (Pg. 71)	18	M-50	60	73 F-85		33BPM1 (7937953)	139
402 60 Chry.	13	CE68A 68 Chev.	56	AC-154)	5	ZTMX (Pg. 71)	18	M-30	52	73 F-85		73 Olds, Toronado	145
403 60 Chry.	13	CE69A 69 Chev.	69	OE2A6 51-52 Olds.	5	ZTMXD (Pg. 131)	17	M-40	57	73 F-85		33BPM1 (7937953)	140
404 61 Chry.	15	CE70A 70 Chev.	77	OE4FM 64 Olds.	26	ZTMY (Pg. 71)	18	M-45	64	73 F-85		73 Olds, Toronado	146
407 61 Chry.	15	CEA64 64 Chev.	24	OE4FM 64 Olds.	34	3MT	22	M-50	60	73 F-85		33BPM1 (7937953)	139
409 62 Chry.	18	CEM64 64 Chev.	25	OE65A 65 Olds.	32	4AT	25	M-430	190	73 F-85		73 Olds, Toronado	145
410 62 Chry.	18	CE65M 65 Chev.	32	OE66A 65-66 Olds.	40	8AT	25	M-431	173	73 F-85		73 Olds, Toronado	146
411 63 Chry.	20	CR66M 65-66 Chev.	39	OE67A 67 Olds.	45	SCSRM04	204	M-607	133	73 F-85		73 Olds, Toronado	147
413 63 Chry.	20	CR67A 67 Chev., GMC	52	OE67X 57 Olds.	7	5F4R0X4	204	M-650	161	73 F-85		73 Olds, Toronado	148
414 64 Chry.	24	CR70A 70 Chev.	77	OE68X 59 Olds.	12	5F4R0X4	204	M-651	162	73 F-85		73 Olds, Toronado	149
415 64 Chry.	24	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-860	134	73 F-85		73 Olds, Toronado	150
416 65 Chry.	31	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-861	134	73 F-85		73 Olds, Toronado	151
416 66 Chry.	39	CR68A 68 Chev.	56	OE69X 60 Olds.	12	5F2161A	223	M-880	134	73 F-85		73 Olds, Toronado	152
417 65 Chry.	31	CR68A 68 Chev.	56	OE69X 60 Olds.	12	5F2161A	223	M-881	134	73 F-85		73 Olds, Toronado	153
417 66 Chry.	39	CR68A 68 Chev.	56	OE69X 60 Olds.	12	5F2161A	223	M-882	134	73 F-85		73 Olds, Toronado	154
418 67 Chry.	47	CR68M 65 Chev.	32	OE69X 60 Olds.	12	5F2161A	223	M-883	134	73 F-85		73 Olds, Toronado	155
418 67 Chry.	47	CR68M 65 Chev.	32	OE69X 60 Olds.	12	5F2161A	223	M-884	134	73 F-85		73 Olds, Toronado	156
419 67 Chry.	43	CR68M 65 Chev.	32	OE69X 60 Olds.	12	5F2161A	223	M-885	134	73 F-85		73 Olds, Toronado	157
420 66 Chry.	40	CR68M 65 Chev.	32	OE69X 60 Olds.	12	5F2161A	223	M-886	134	73 F-85		73 Olds, Toronado	158
421 67 Chry.	43	CR68M 65 Chev.	32	OE69X 60 Olds.	12	5F2161A	223	M-887	134	73 F-85		73 Olds, Toronado	159
420 66 Chry.	40	CR68M 65 Chev.	32	OE69X 60 Olds.	12	5F2161A	223	M-888	134	73 F-85		73 Olds, Toronado	160
421 67 Chry.	43	CR68M 65 Chev.	32	OE69X 60 Olds.	12	5F2161A	223	M-889	134	73 F-85		73 Olds, Toronado	161
608 53 Ply.	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-890	134	73 F-85		73 Olds, Toronado	162
609 53 Dodge	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-891	134	73 F-85		73 Olds, Toronado	163
610 53 Dodge	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-892	134	73 F-85		73 Olds, Toronado	164
611 54 Dodge (See	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-893	134	73 F-85		73 Olds, Toronado	165
610T)	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-894	134	73 F-85		73 Olds, Toronado	166
612 54 Dodge (See 609)	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-895	134	73 F-85		73 Olds, Toronado	167
613 55 Ply.	5	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-896	134	73 F-85		73 Olds, Toronado	168
614 55 Dodge	5	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-897	134	73 F-85		73 Olds, Toronado	169
620 56 Ply.	7	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-898	134	73 F-85		73 Olds, Toronado	170
621 56 Dodge	8	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-899	134	73 F-85		73 Olds, Toronado	171
624 57 Dodge	8	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-900	134	73 F-85		73 Olds, Toronado	172
700 58 Dodge	8	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-901	134	73 F-85		73 Olds, Toronado	173
700 60 Dodge (Rev.)	14	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-902	134	73 F-85		73 Olds, Toronado	174
701 59 Sinca	12	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-903	134	73 F-85		73 Olds, Toronado	175
703 61 Dodge	12	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-904	134	73 F-85		73 Olds, Toronado	176
706 64 Dodge	26	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-905	134	73 F-85		73 Olds, Toronado	177
706 5TBDT 65 (Sim. to	26	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-906	134	73 F-85		73 Olds, Toronado	178
Page 64) Dodge	26	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-907	134	73 F-85		73 Olds, Toronado	179
706 7BDT 67 Dodge	44	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-908	134	73 F-85		73 Olds, Toronado	180
819 53 Ply.	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-909	134	73 F-85		73 Olds, Toronado	181
820 53 Dodge	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-910	134	73 F-85		73 Olds, Toronado	182
821 Desoto	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-911	134	73 F-85		73 Olds, Toronado	183
824 53 Chry.	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-912	134	73 F-85		73 Olds, Toronado	184
828 54 Dodge	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-913	134	73 F-85		73 Olds, Toronado	185
829 Desoto	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-914	134	73 F-85		73 Olds, Toronado	186
830 54 Chry.	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-915	134	73 F-85		73 Olds, Toronado	187
831 (See 830)	4	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-916	134	73 F-85		73 Olds, Toronado	188
832 55 Ply.	5	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-917	134	73 F-85		73 Olds, Toronado	189
833 55 Dodge	5	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-918	134	73 F-85		73 Olds, Toronado	190
834 55 Desoto	5	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-919	134	73 F-85		73 Olds, Toronado	191
835 55 Ply.	5	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-920	134	73 F-85		73 Olds, Toronado	192
836 55 Ply.	5	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-921	134	73 F-85		73 Olds, Toronado	193
840 56 Ply.	6	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-922	134	73 F-85		73 Olds, Toronado	194
841 56 Ply.	6	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-923	134	73 F-85		73 Olds, Toronado	195
842/HR 56 Dodge	6	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-924	134	73 F-85		73 Olds, Toronado	196
843 56 Desoto	6	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-925	134	73 F-85		73 Olds, Toronado	197
844/HR 56 Chry.	6	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-926	134	73 F-85		73 Olds, Toronado	198
845 57 Dodge	8	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-927	134	73 F-85		73 Olds, Toronado	199
846 57 Desoto	8	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-928	134	73 F-85		73 Olds, Toronado	200
847 57 Chry.	8	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-929	134	73 F-85		73 Olds, Toronado	201
848 57 Ply.	8	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-930	134	73 F-85		73 Olds, Toronado	202
849 57 Ply.	8	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-931	134	73 F-85		73 Olds, Toronado	203
851 58 Chry.	8	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-932	134	73 F-85		73 Olds, Toronado	204
852 58 Dodge	8	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-933	134	73 F-85		73 Olds, Toronado	205
854 58 Ply.	9	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-934	134	73 F-85		73 Olds, Toronado	206
855 59 Ply.	11	CR67A 67 Chev.	44	OE69X 60 Olds.	12	5F2161A	223	M-935					



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62FPB1 (7313552)		7303302-A 68 Pontiac	73							ORSA 70 96	
69 Beaumont, Tempest	66	7303362 68 Pontiac	50							ORSA 70 96	
92AFP1 (7307402) 69		7304342 (984888)	57							ORSA 70 96	
92AFP2 69 Tempest	64	7305572 68 Firebird	50							ORSA 70 96	
92AFP6 69 1/2 Tempest		7305582 68 Firebird	49							ORSA 70 96	
(Similar to page 63)	69	7305592 68 Firebird	49							ORSA 70 96	
92APB1 69 Beaumont,		7305602 68 Firebird	49							ORSA 70 96	



Table with 12 columns: Manufacturer (SIMCA, STROMBERG CARLSON, TENNA, TOYOTA, TRUETONE), Year, Model, and Price. The table is organized into sections for each manufacturer and lists various car models with their corresponding years and prices.







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