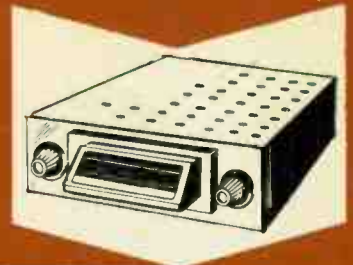


SAMS PHOTOFACT[®]

AUTO RADIO SERIES



AR-263
263
JULY, 1978



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CADILLAC	86CFMT1/T2 (16001516), 86KFMT1/T2 (16001526)
DELCO	86CFMW1 (16000666), 86DFMW1 (16000686), 86KFMW1 (16000676)
FORD/LINCOLN	D8EF-/D8UF-18B814AA, D8TF-18B814AC
HONDA	CR-1719FUH (A208D-463-64749)
RCA	12R710



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

World Radio History



Cat. No. AR-263



SAMS PHOTOFACT[®] AUTO RADIO SERIES



VOLUME

263



by the *Howard W. Sams* ENGINEERING STAFF



HOWARD W. SAMS & CO., INC.

INDIANAPOLIS INDIANA

**FIRST EDITION
FIRST PRINTING—JULY, 1978**

**PHOTOFACT®
AUTO RADIO SERIES
VOLUME 263**

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The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed.

Library of Congress Catalog Card Number: 49-11493



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.

DELCO

AR-240, Page 95

Coils and Speakers

The following are corrected Coil and Speaker listings.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1A	FM Antenna	(1)			(1) Part of Tuner(M1).
L1B	FM RF (88MHz)	(1)			
L1C	FM Oscillator	(1)			
L1D	AM Antenna (600kHz)	(1)			
L1E	AM RF (600kHz)	(1)			
L1F	AM Oscillator	(1)			
L2	RF Choke	7934553			
L14	RF Choke				
L31	RF Choke	7291800			
T1	FM Mixer (10.7MHz)	9340289	0289		
T4	Quadrature (10.7MHz)	7311554			
T5	AM IF (262kHz)	7930517	119-76-296-7930517		
T6	AM IF (262kHz)	9341433	9341433-27317632		

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP1	4"x10" PM 10 Ohms	9343402	410A2Z10	Front; Buick, Lemans & Grand Prix
SP1	3 1/2" PM 10 Ohms	7095010		Left Front & Right Front; Buick
SP1	6"x9" PM (Deep Basket) 10 Ohms	7096870		Front; Chevrolet
SP1	3 1/2" PM 10 Ohms	7897421	46A1Z10	Left Front & Right Front; Chevrolet
SP1	3 1/2" PM 10 Ohms	9344333		Left Front & Right Front; Oldsmobile, Toronado, Cutlass
SP1	3 1/2" PM 10 Ohms	9341561	3A1Z10	Left Front & Right Front; Motor Home
SP1	4"x10" PM 10 Ohms	7938401	410A2Z10	Front; Chev Truck
SP1	4"x6" PM 10 Ohms	7312421	46A1Z10	Left Front & Right Front; Chev Truck
SP2	4"x10" PM 10 Ohms	9343402	410A2Z10	Front; Pontiac
SP2	3 1/2" PM 10 Ohms	7095010		Left Front & Right Front; Pontiac
SP2	6"x9" PM (Deep Basket) 10 Ohms	9343370		Left Rear & Right Rear; Buick, Chevrolet
SP2	4"x10" PM 10 Ohms	7096220		Left Rear & Right Rear; Buick, Chevrolet
SP2	6"x9" PM (Deep Basket) 10 Ohms	9343370		Left Rear & Right Rear; Oldsmobile, Toronado, Cutlass, Pontiac, Lemans & Grand Prix
SP2	4"x10" PM 10 Ohms	9349690		Left Rear & Right Rear; Cutlass, Lemans, Grand Prix
SP2	4"x10" PM 10 Ohms	7096220		Left Rear & Right Rear; Oldsmobile, Pontiac
SP2	4"x10" PM 10 Ohms	7933542	410A2Z10	Left Rear & Right Rear: Motor Home

CADILLAC

AR-194, Page 21

Semiconductors

Change replacements on D14 and D15 to read:

General Electric - GEZD-11

Mallory - ZB11B

RCA - SK3139

Sprague - RT-242

Sylvania - ECG-5074A

MOTOROLA

AR-226, Page 115

Coils

Delete part number on L7, L8, L9
and add note "1".

FORD

AR-245, Page 73

Electrolytics

C11 - Add General Line replacement
part number TVA-1085.5

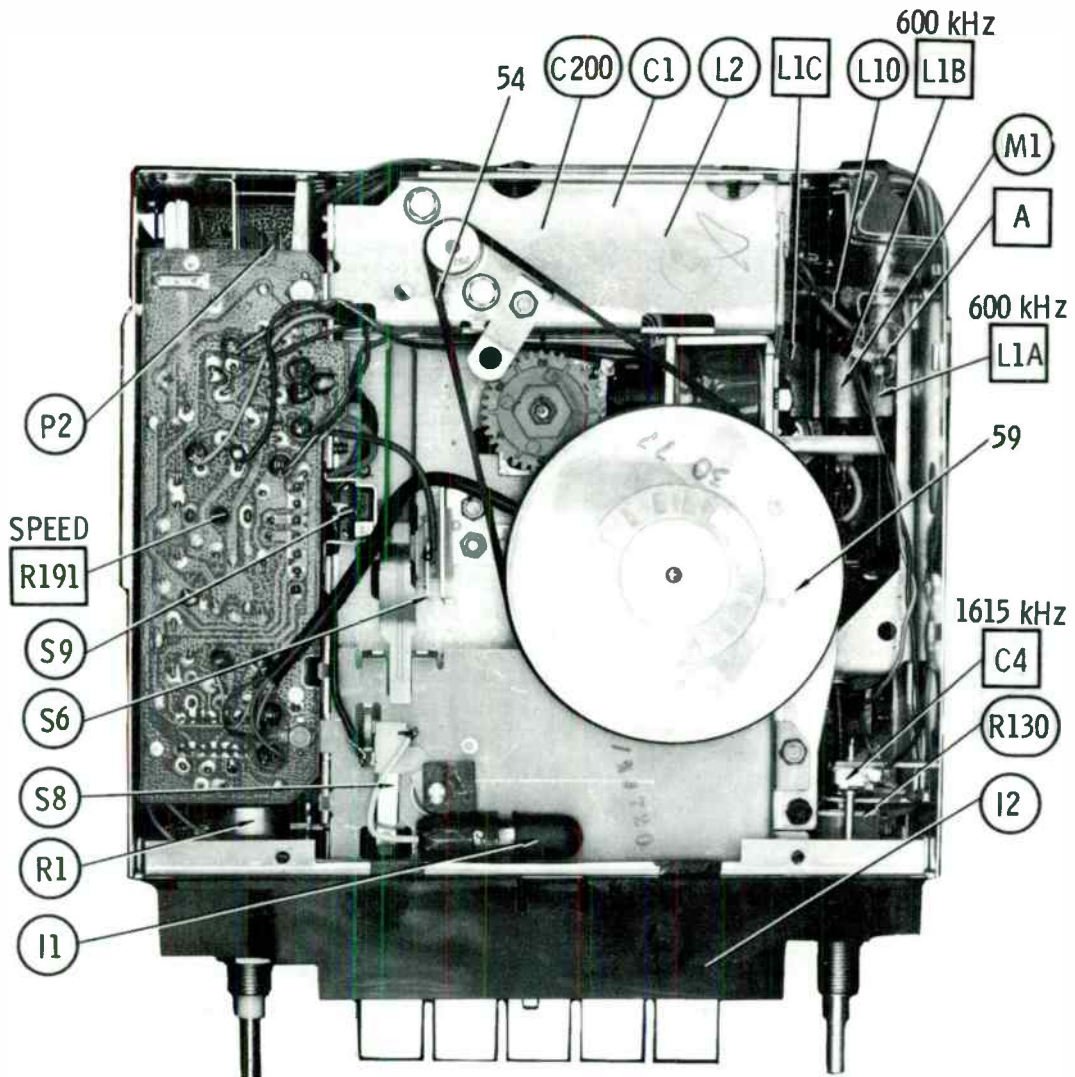


PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

Models 86CFMT1/T2(16001516) 78 Deville, Fleetwood
86KFMT1/T2(16001526) 78 Seville, Eldorado



CHASSIS-TOP

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

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CADILLAC MODELS 86CFMT1/T2, 86KFMT1/T2

ALIGNMENT INSTRUCTIONS

Check for specified source voltage
Connect low sides of generator and indicator to ground unless specified otherwise.
Use only enough generator output to provide a usable indication.

Suggested Alignment Tools: GC ELECTRONICS:
T1, T4, T5, T6 9296, 9297, 9300
L4, L6 9440
C3, C4 5000, 9089
C5, C6 9050L

PUSH-BUTTON ADJUSTMENT

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

AM ALIGNMENT—SELECTOR IN AM POSITION

Connect output meter across speaker voice coil.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST	REMARKS
High side thru .1uF to point A.	262kHz 400-Hz mod.	High freq end stop	T6,T5	Adjust for maximum.
Check setting of oscillator coil core LIC Rear of core should be 1-3/8" from mounting end of coil form.				
High side thru 82pF to antenna input	1615kHz	High freq end stop	C6,C5, C4	Adjust for maximum.
"	600kHz	600-kHz signal	L1B,L1A	Adjust for maximum. Repeat alignment.
With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust C4 for maximum output. Antenna adjustment C4 is located in front panel behind tuning and fader knobs.				

FM ALIGNMENT—SELECTOR IN FM POSITION

Make certain AM is operating properly. AM oscillator controls FM tuning.

RADIO DIAL SETTING	ADJUST	REMARKS
	R80	Adjust to obtain 7.3 volts at Pin 9 of U8.

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

High side of generator thru .001uF to point A.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to point C.	T4,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.

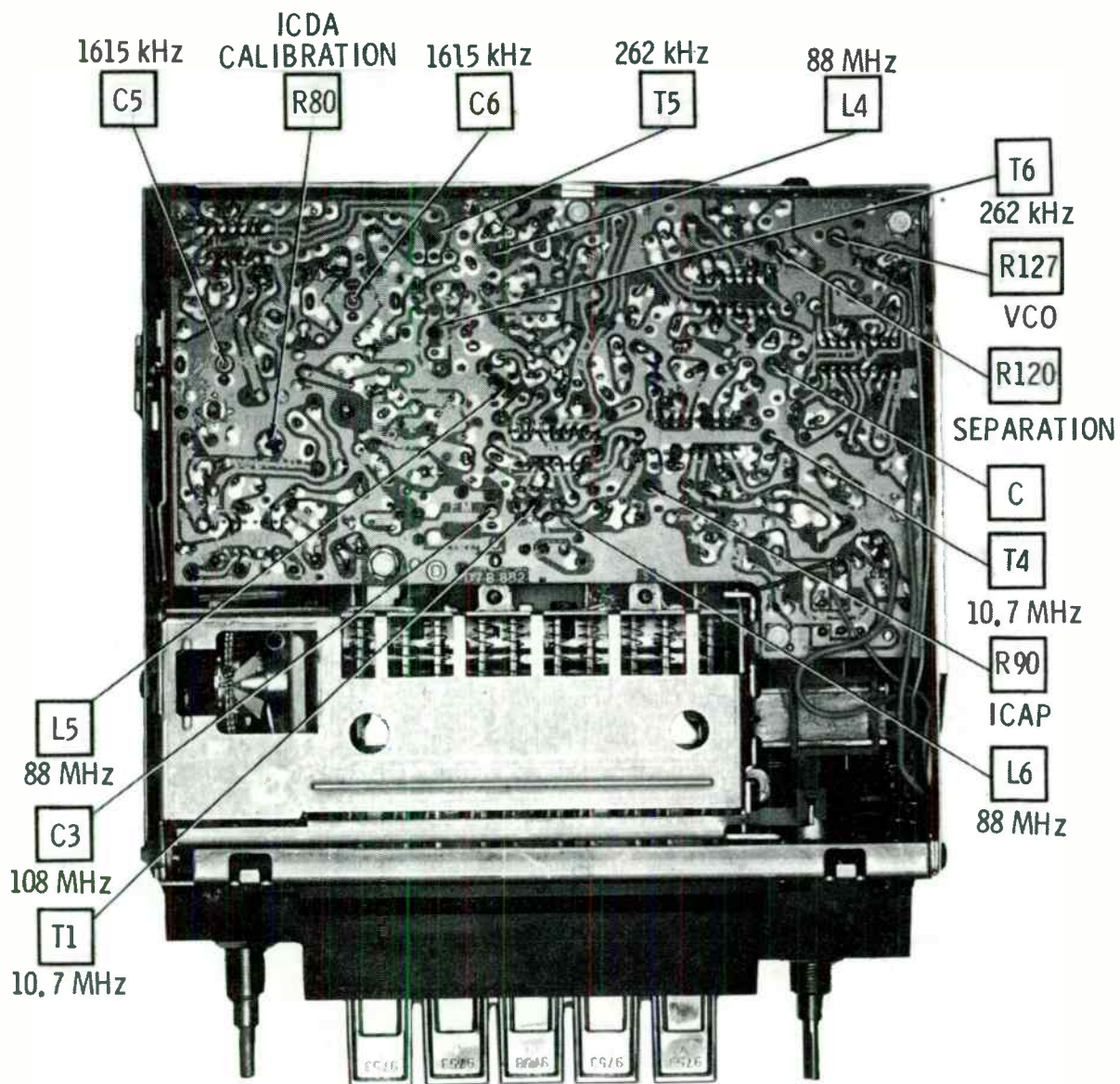
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Unmodulated	108MHz	DC probe of VTVM to point C.	C3	Adjust for maximum.
88MHz Unmodulated	88MHz	"	L6,L5,L4	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

FM STEREO ADJUSTMENT

Tune receiver for a stereo signal. Adjust balance control for equal channel output. Adjust Separation control 120 for best separation. With a weak signal, adjust R127 for stereo indication.

AUDIO BIAS ADJUSTMENT

Adjust R90 for .1 volt on pin 15 of U9 with no signal. Voltage should go to 2 volts when radio is tuned to a strong signal.



CHASSIS-BOTTOM

ADJUSTMENTS

ADJUST	REMARKS
Head Azimuth	Play a test cartridge and adjust Screw 62B for maximum on meter across output.
Head Height	Play a test cartridge, follow instructions with cartridge, and adjust Pinion 67 for proper response.
Motor Speed	Place unit under a 60-cycle strobe light; lines on flywheel should appear stationary with proper adjustment of R191.

TROUBLE CHART

SYMPTOM	REMARKS
Capstan does not rotate.	Belt 54 dirty, worn, or broken. Assembly 55 binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch S6 dirty. Cam 58 binding or worn. Pawl 69 worn. Assembly 62A binding. Solenoid K1 defective or not supplied with power. Cartridge defective. Spring 75, 77 weak or broken.
Wow or flutter	Belt 54 dirty or worn. Capstan dirty or binding. Cartridge defective. Motor defective Speed regulator circuit 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.
Cartridge ejector defective	Actuator 50 worn or broken. Rod 52B binding or worn. Flywheel 59 worn. Arm 52A binding.
Tape play intermittent or inoperative	Guide 61 worn or out of place. Detent 52D worn or binding. Spring 76 weak or out of place. Cartridge binding or defective.

MECHANICAL PARTS LIST

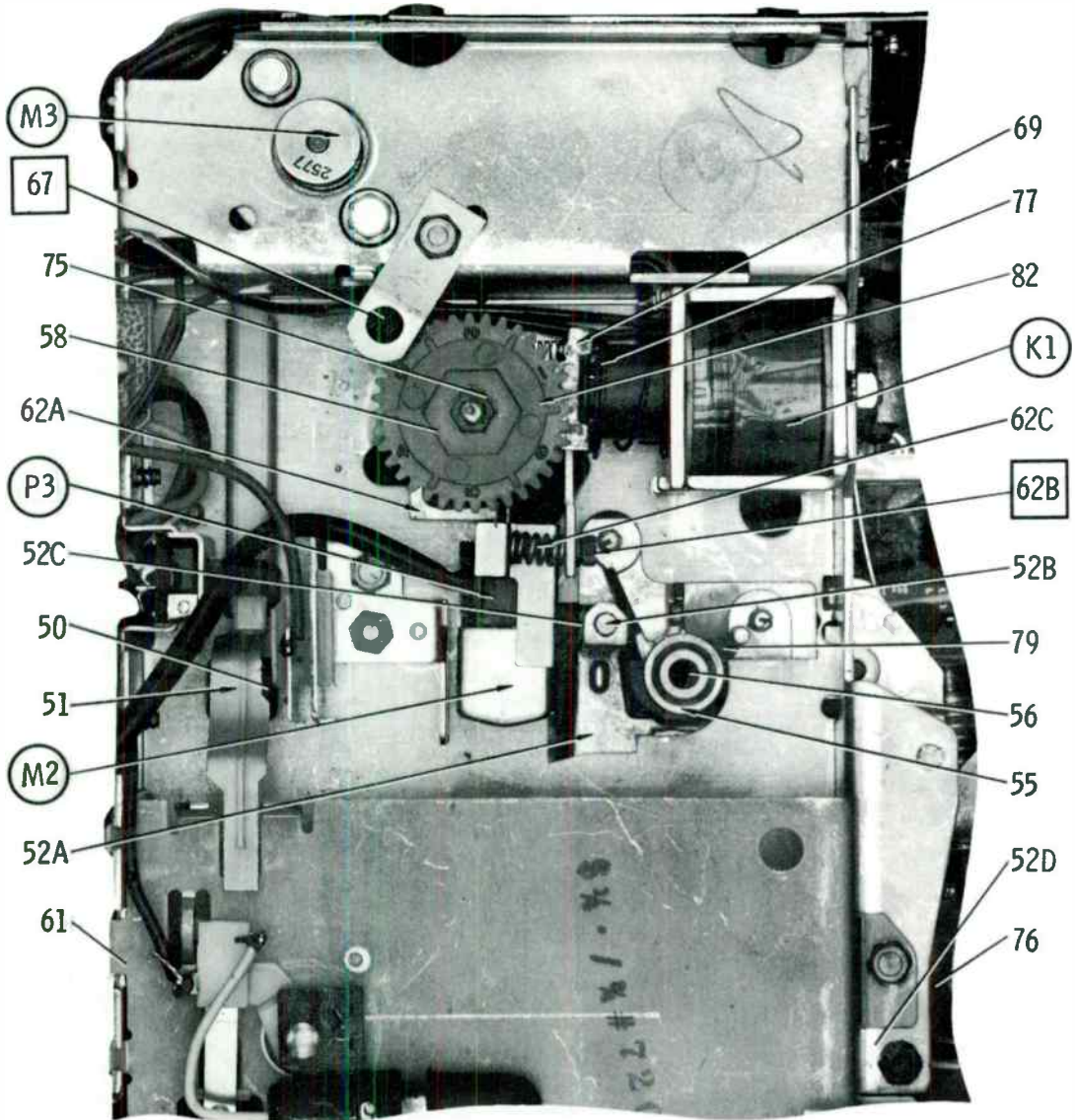
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
50	16001098	Eject Actuator	61	9347891	Cartridge Guide (Plate)
51	16001581	Switch Actuator	62A	16003726	Head and Bracket Assembly
52A	16000586	Cartridge Lock Arm (Assembly)	62B	(2)	Azimuth Screw
52B	(1)	Eject Rod	62C	(2)	Azimuth Spring
52C	(1)	Eject Rod Spring	67	7896659	Height Adjust Pinion
52D	(1)	Cartridge Detent (Roller)	69	16001578	Ratchet Assembly (Pawl)
54*	16002827*	Flywheel Drive Belt*	75	9347892	Cam Spring
55	1224233	Capstan Bearing Assembly	76	7898373	Cartridge Lock Arm Spring
56	16002831	Capstan Thrust Bearing	77	16001576	Plunger Spring
58	9347899	Track Change Cam	79	16002833	Tape Stripper
59	16002836	Flywheel	82	9347900	Head Height Adjust Wheel

* Flywheel Drive Belt: E-V/GAME Replacement Number 1407-201.
WALSCO Replacement Number 1425-35.

- (1) Part of Arm 52A.
(2) Part of Assembly 62A.

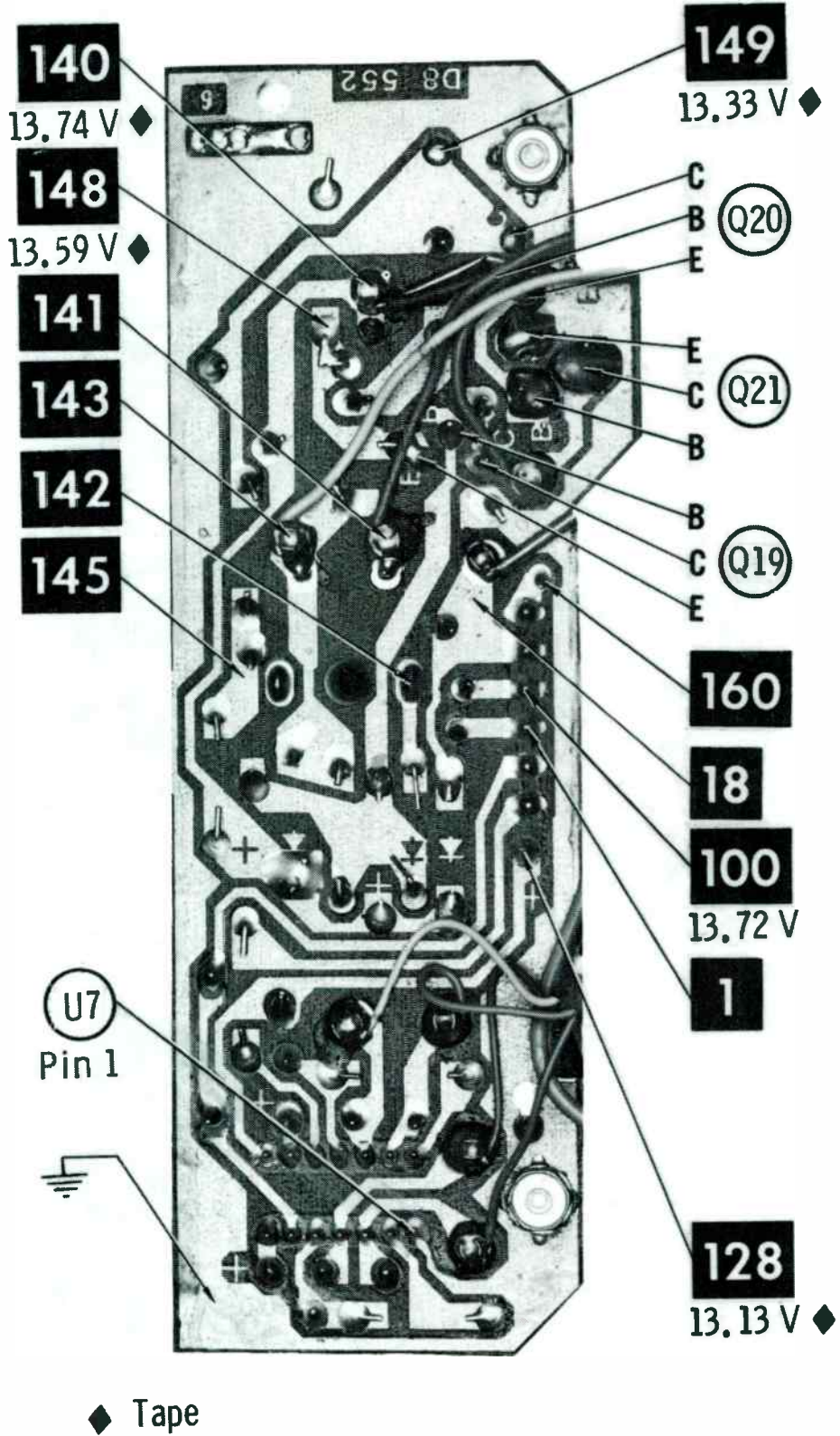
**CLEANING LUBRICATING
HEAD DEMAGNETIZING**

Refer to
"General Servicing Information"
on page 4.

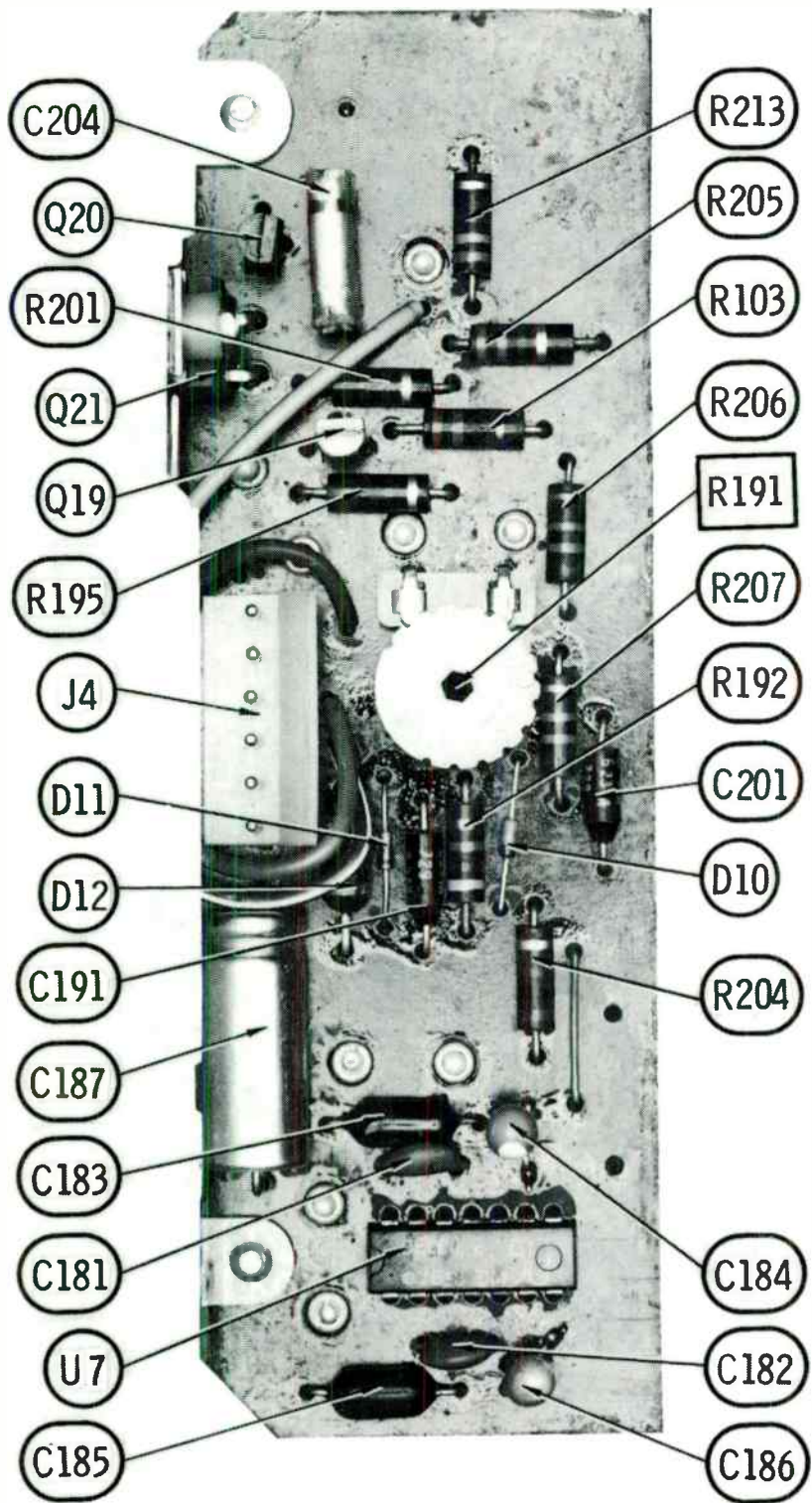


CADILLAC MODELS 86CFMT1/T2, 86KFMT1/T2

TAPE DECK-TOP

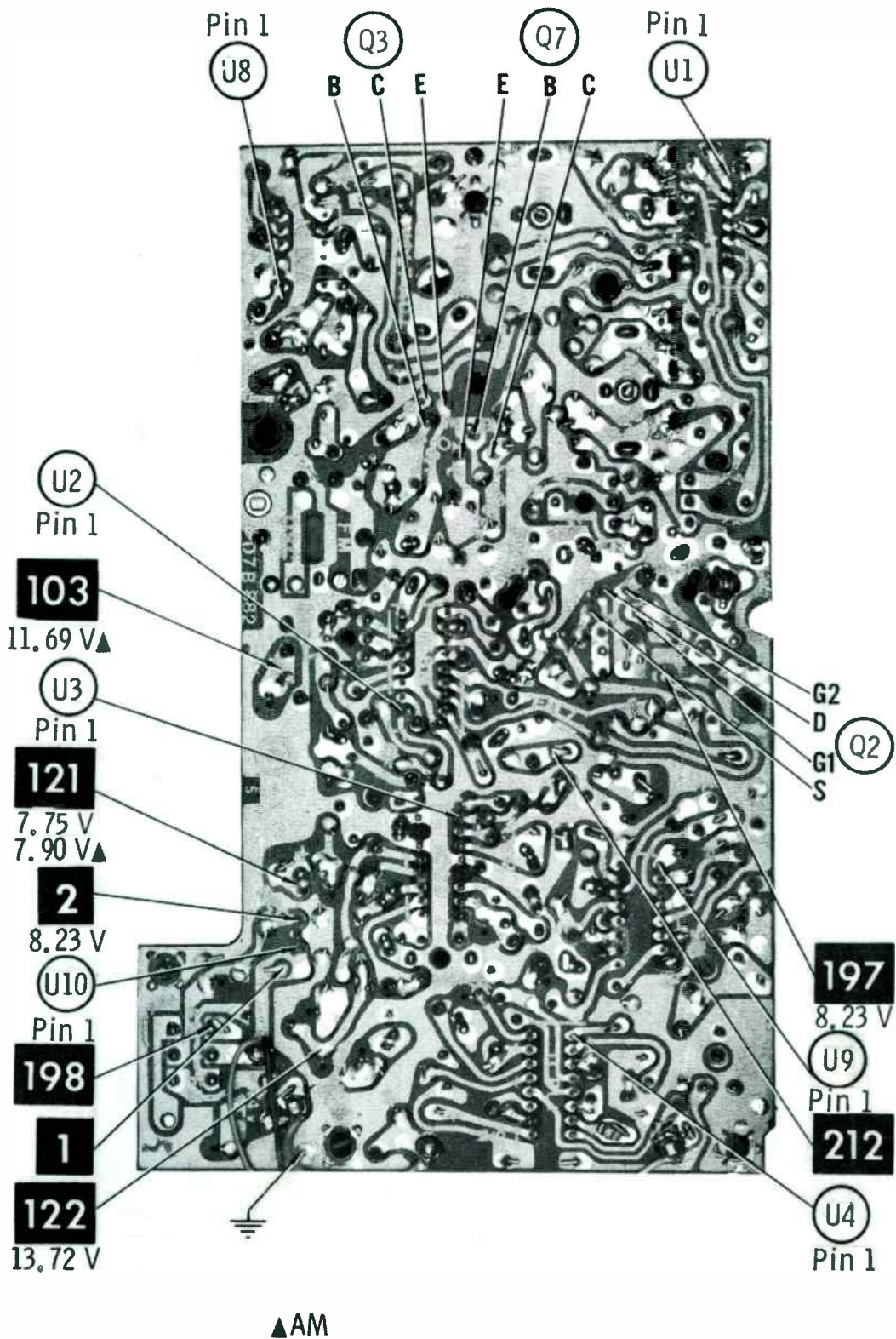


TAPE BOARD



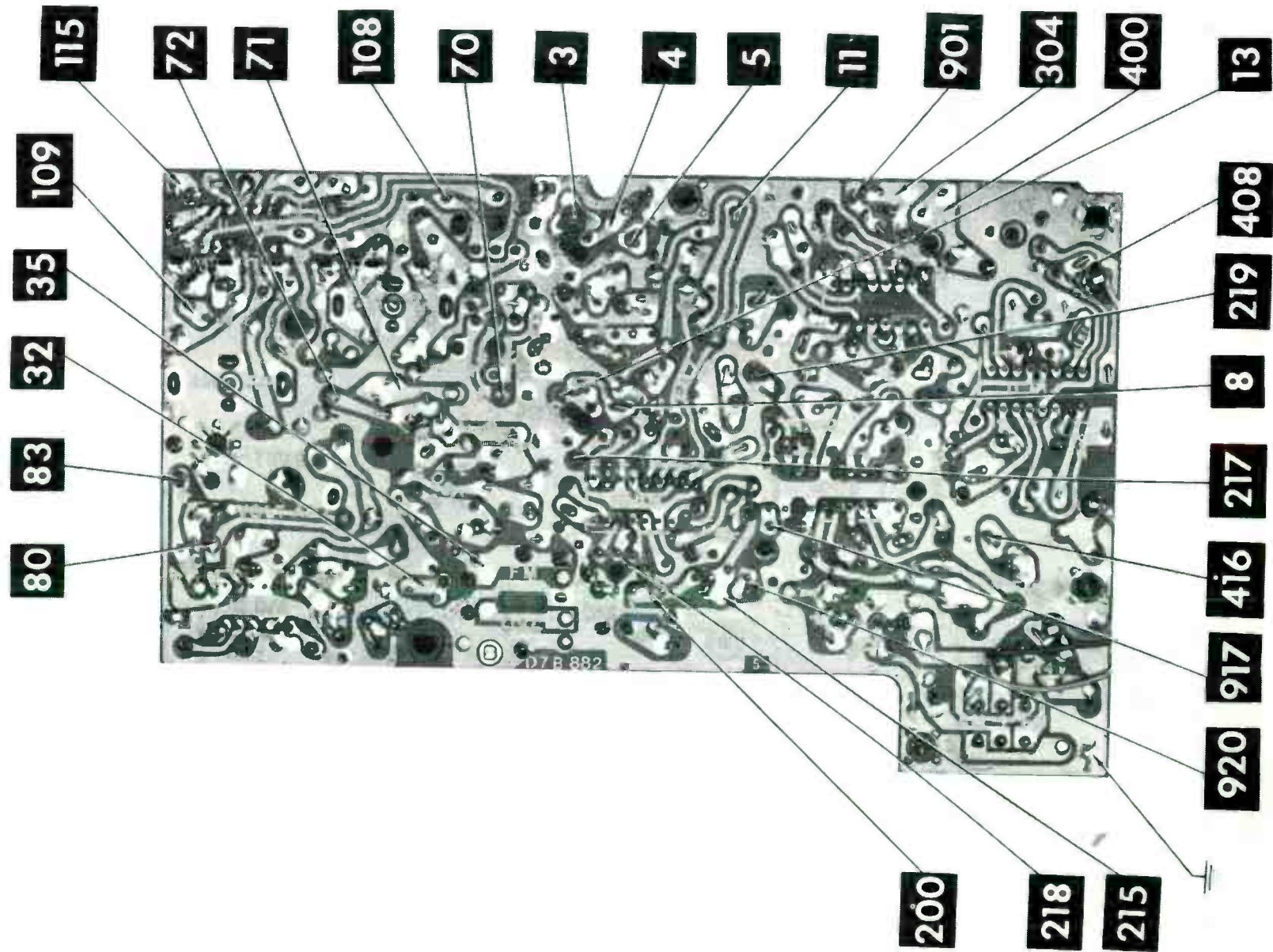
CADILLAC MODELS 86CFMT1/T2, 86KFMT1/T2

TAPE BOARD

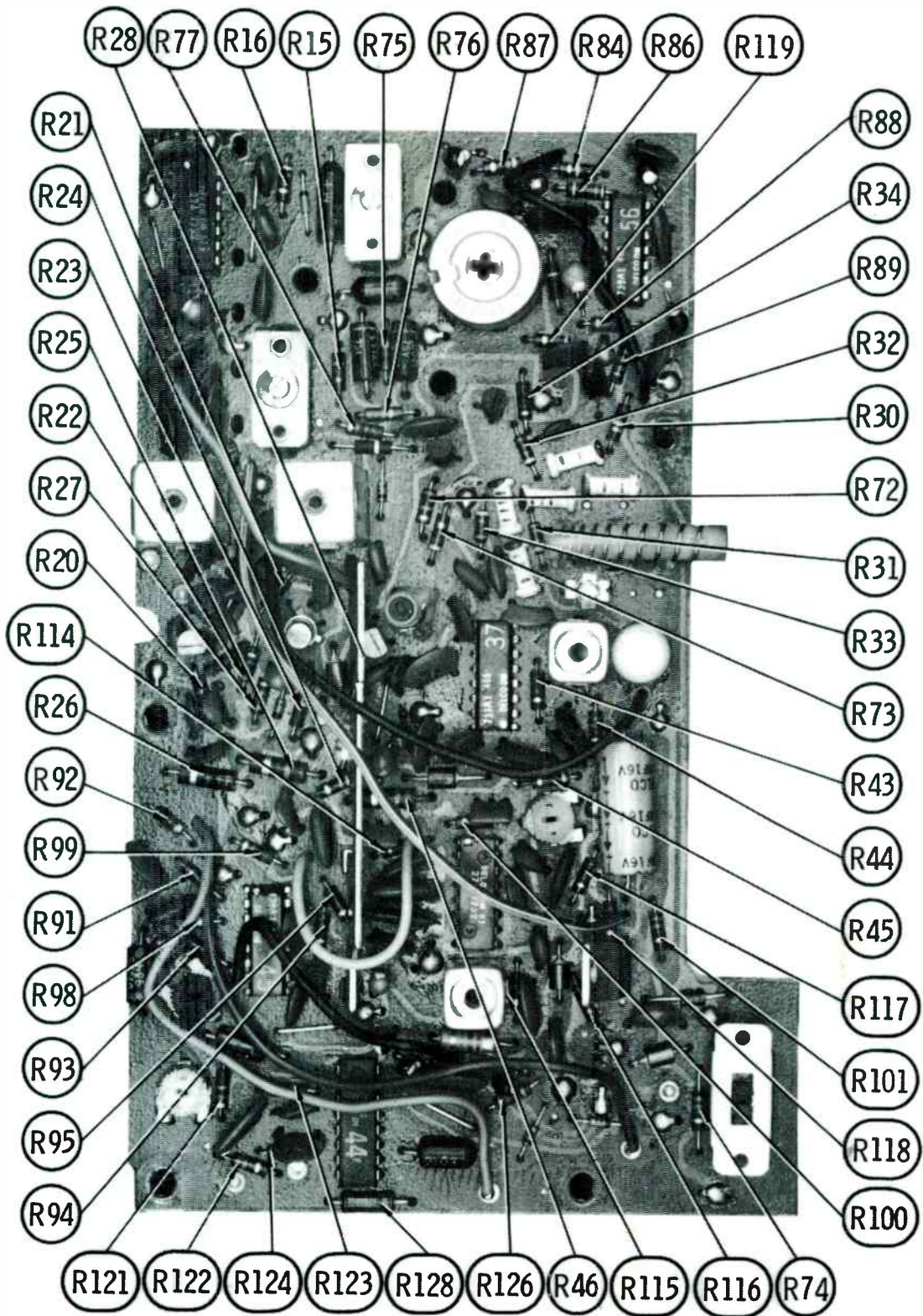


RADIO BOARD

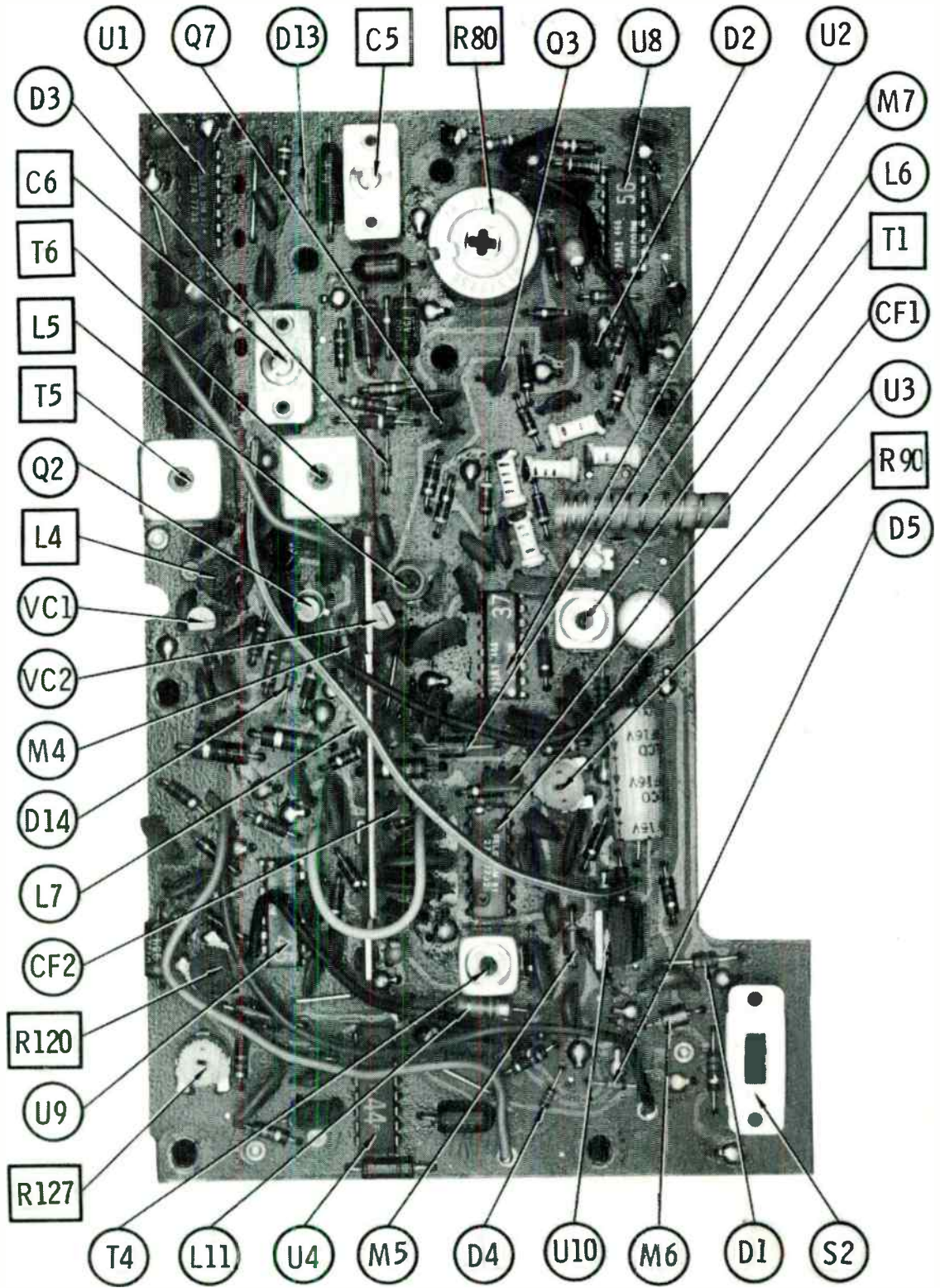
A Howard W. Sams **CIRCUITRACE**® Photo



RADIO BOARD

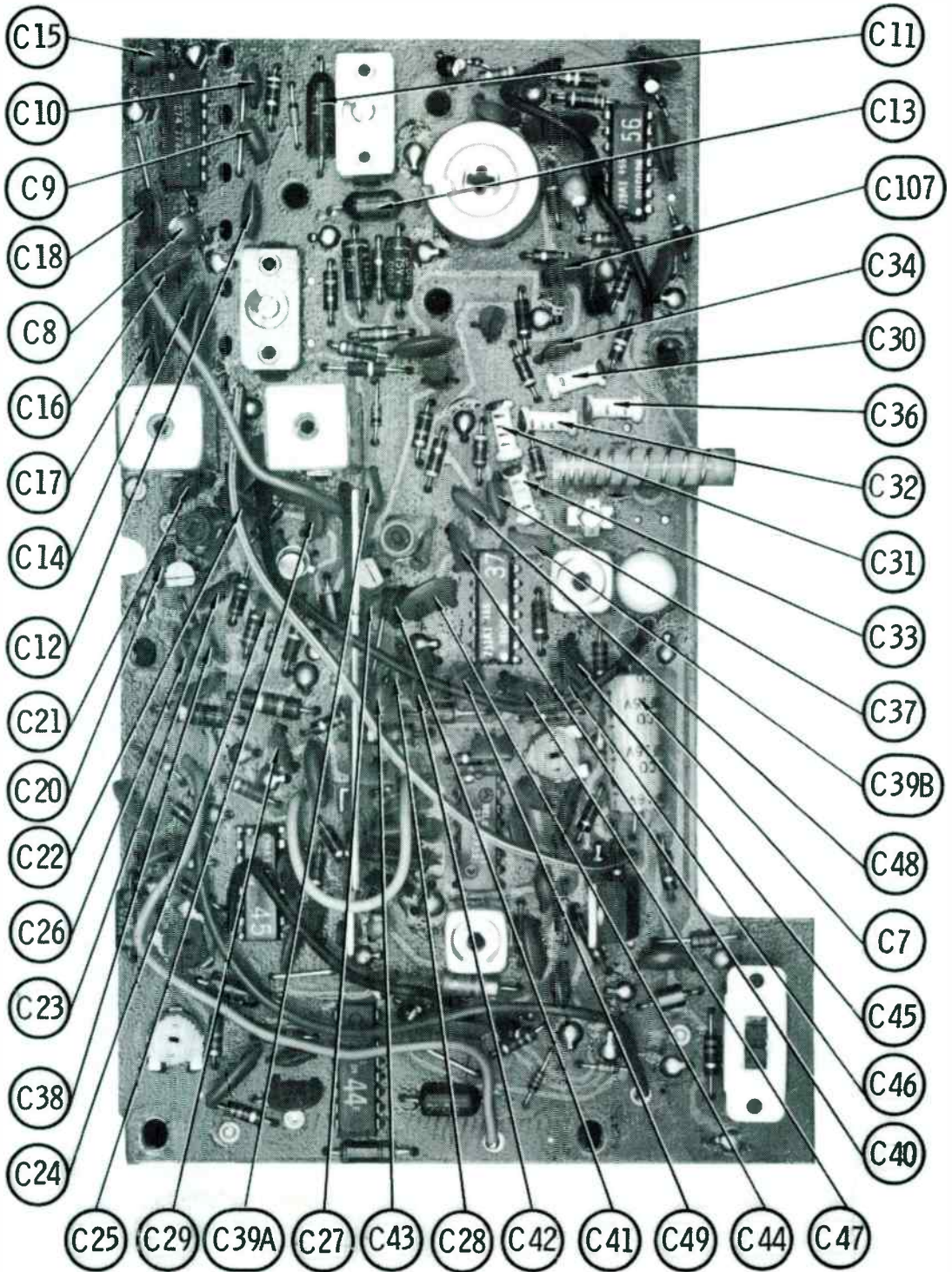


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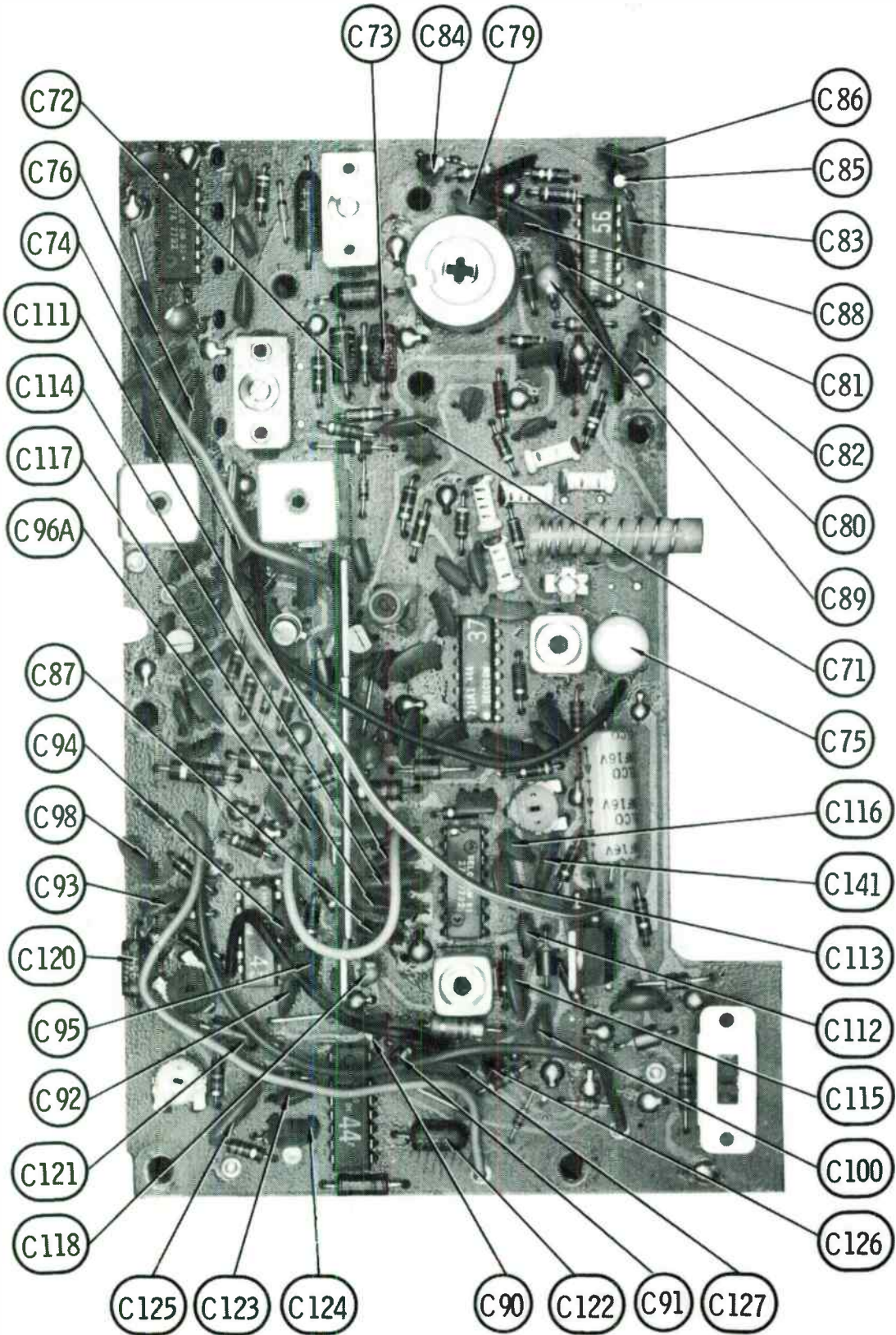


CADILLAC MODELS 86CFM1/T2, 86KFM1/T2

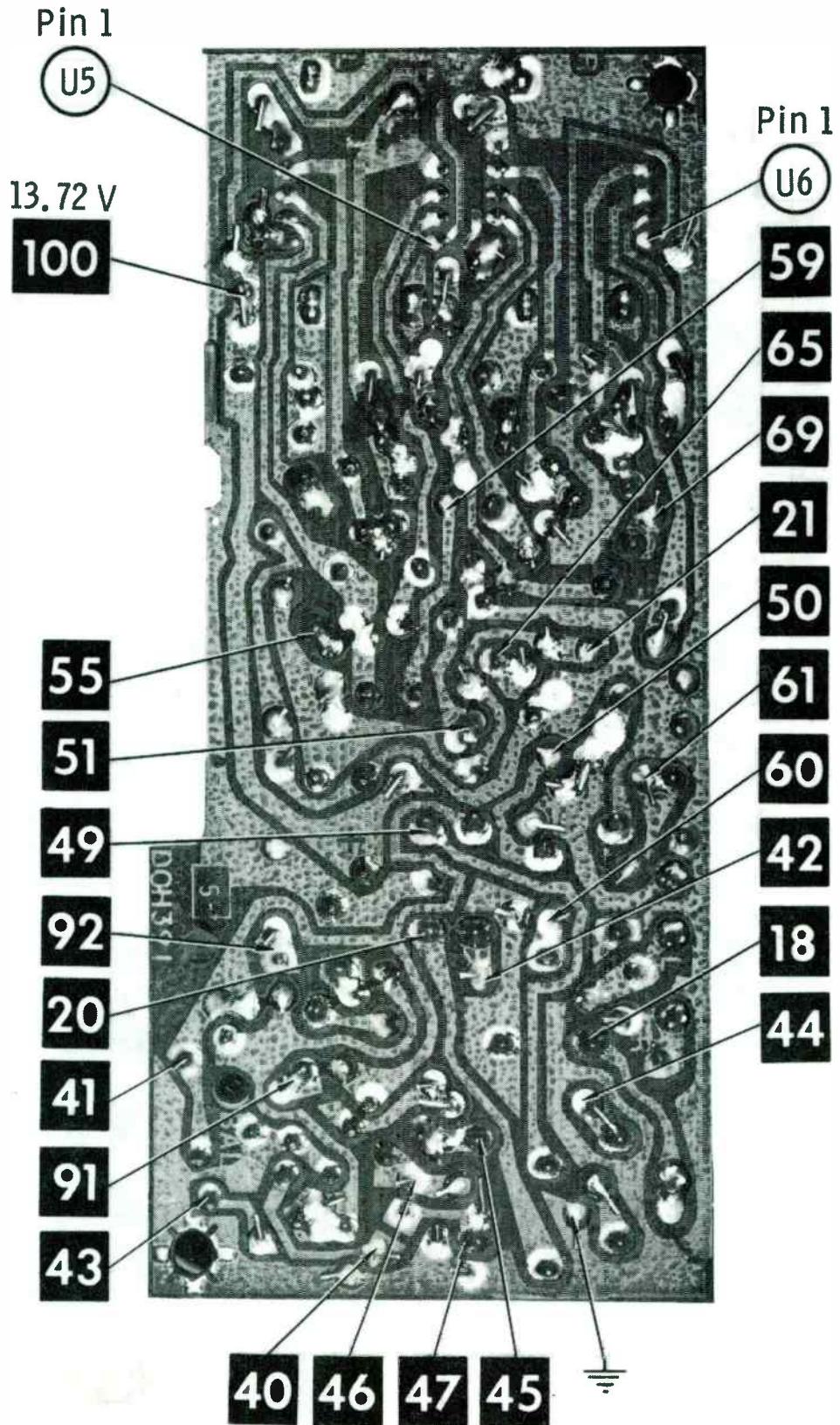
RADIO BOARD



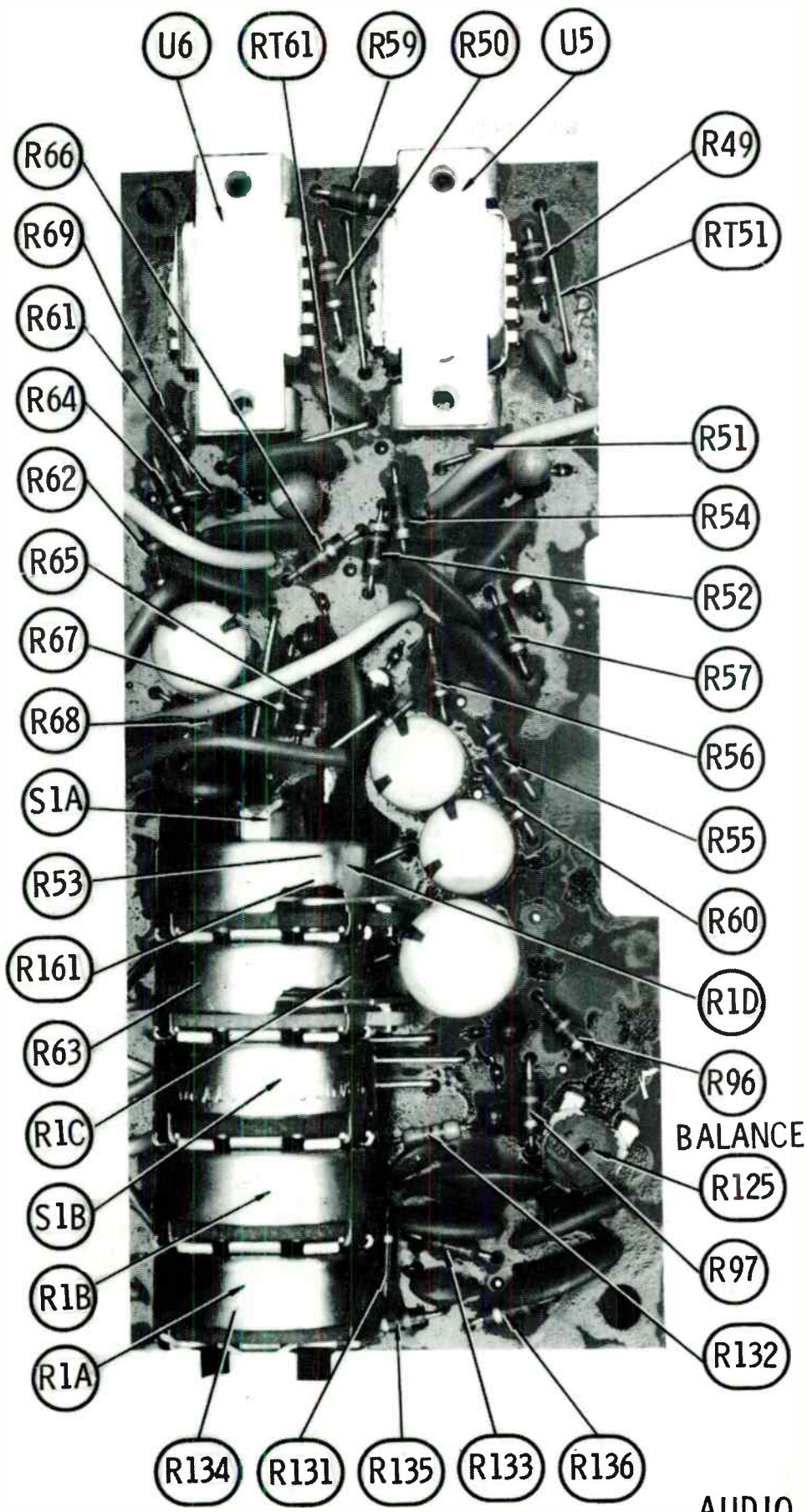
RADIO BOARD



RADIO BOARD

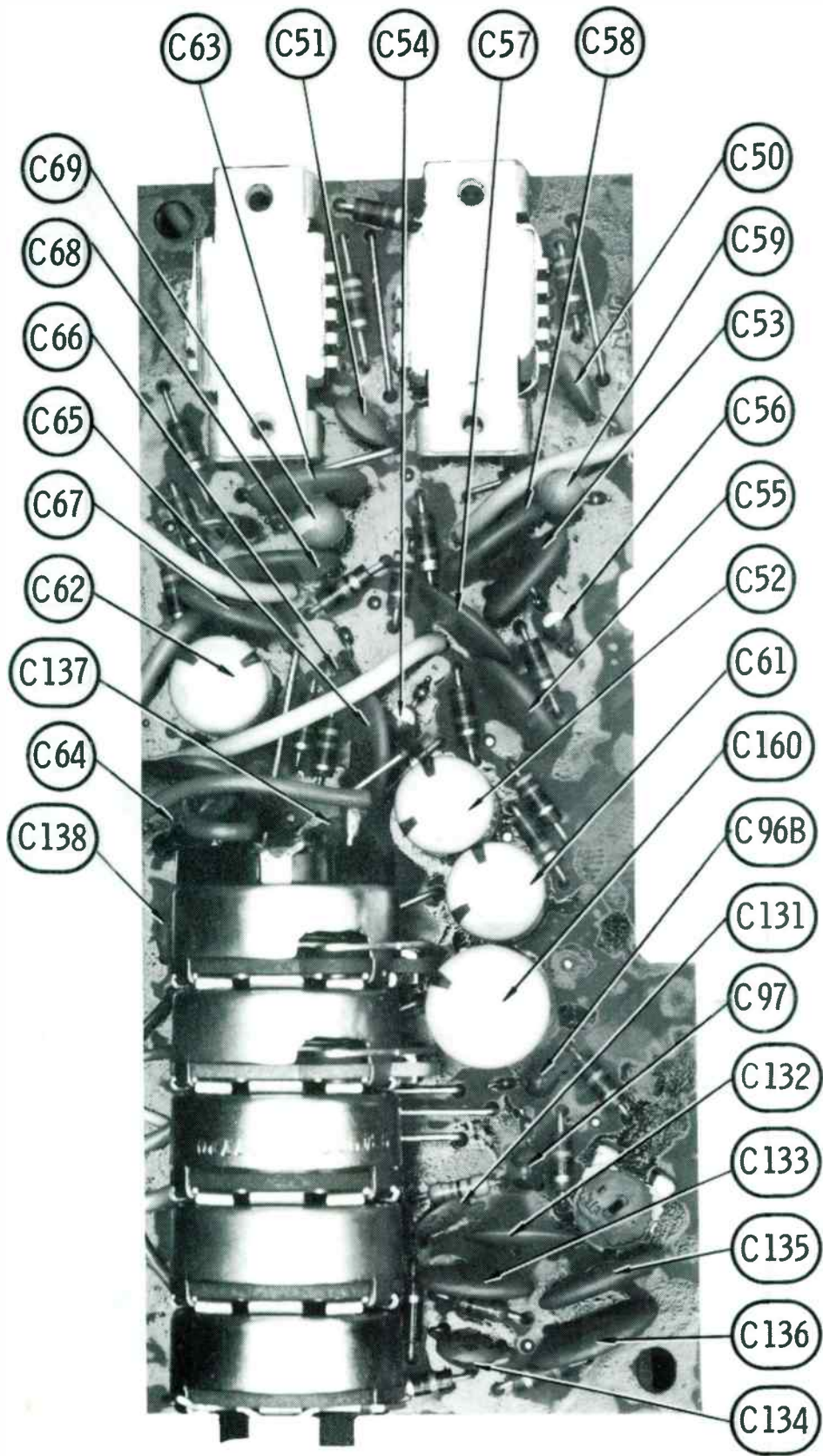


AUDIO BOARD

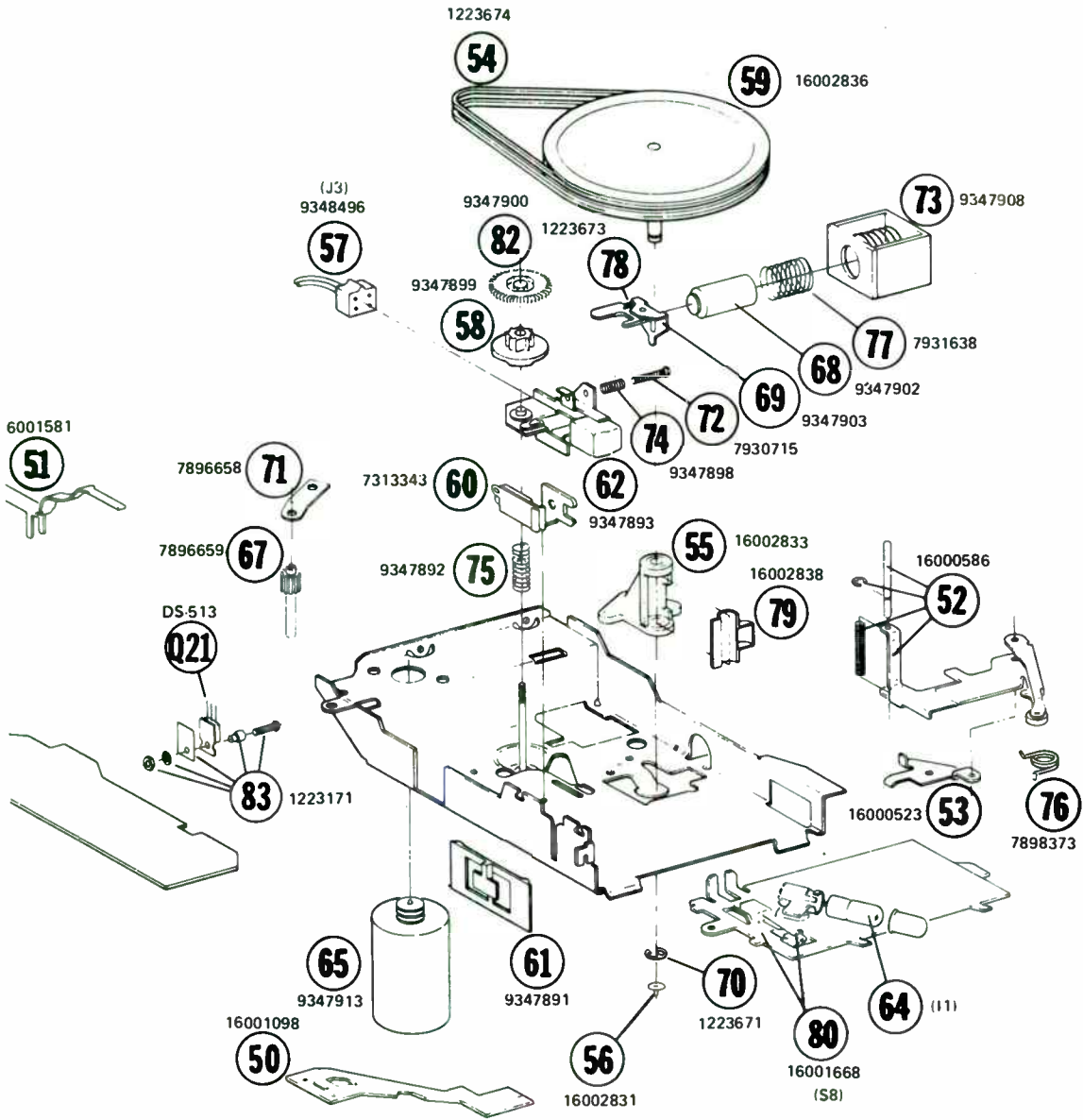


AUDIO BOARD

CADILLAC MODELS 86CFMT1/T2, 86KFMT1/T2



AUDIO BOARD



CADILLAC MODELS 86CFMT1/T2, 86KFMT1/T2

Courtesy of the Manufacturer

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 13 Colors 8524 (Stranded) Available in 13 Colors
Shielded Hook-up Wire	Use BELDEN No. 8401 or 8427
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.)

SEMICONDUCTORS (Select replacement transistor for best results)

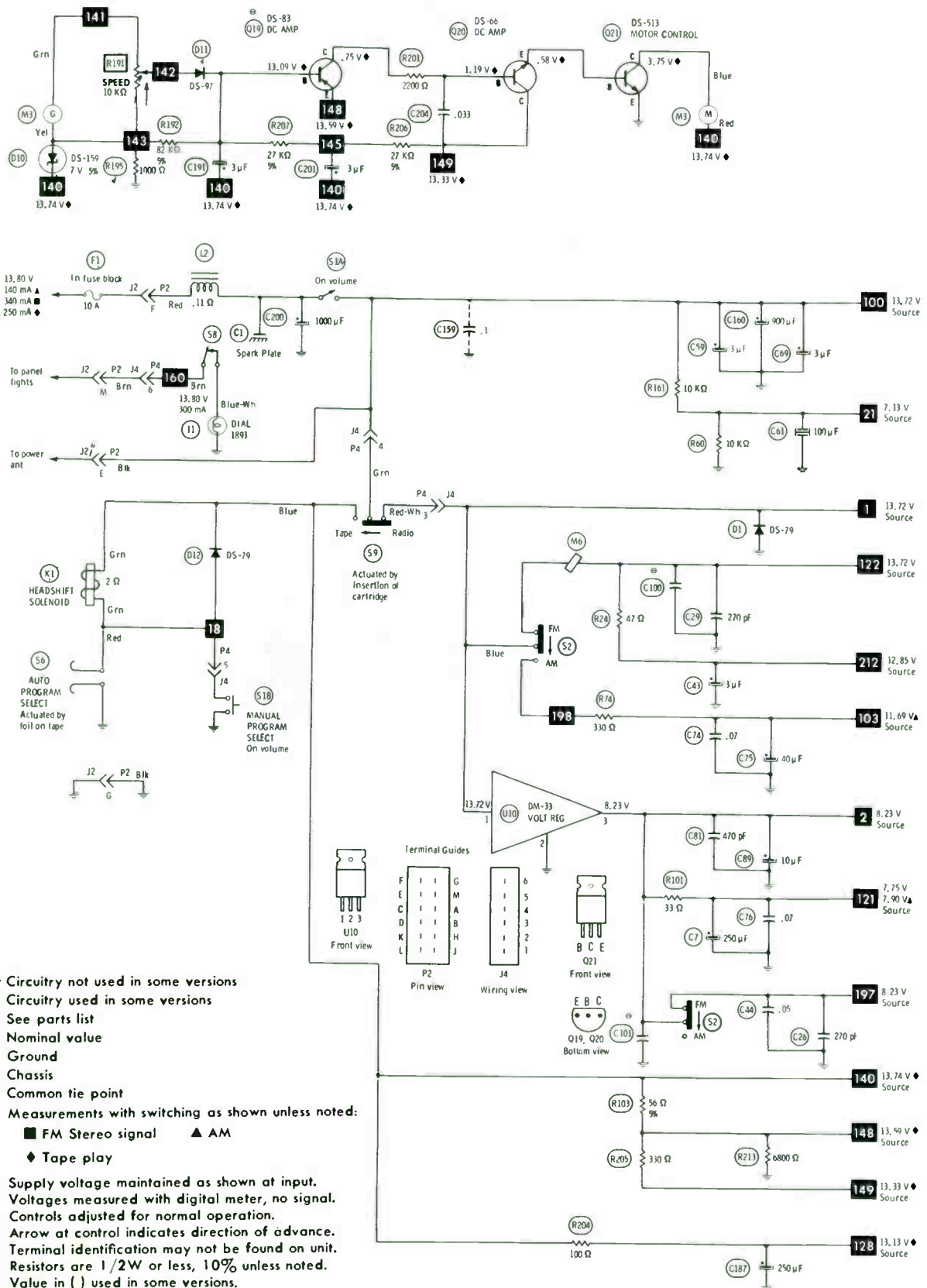
ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	DS-79		GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
D2	DS-55			PTC301		RE 250	SK3463		ECG601			
D3	DS-97		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D4	DS-97		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D5	DS-97		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D10	DS-159		GEZD-6.8	ZB6.8B		RE 110	SK3334	RT-238	ECG5071A	1N4736A	WEP1106	
D11	DS-97		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D12	DS-97		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D13	DS-31		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D14	DS-97		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177		WEP1062	
Q2	DS-105		GE-FET-4	PTC182	HEPF2004	RE 199	SK3050	RT-181	ECG222		WEP905	121-826
Q3	DS-94		GE-20	PTC115	HEPS0015	RE 13	SK3124	RT-108A	ECG123A		WEP736	
Q7	DS-66		GE-20	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A		WEP736	ZEN-128
Q19	DS-83		GE-82		HEPS0012	RE 26	SK3025	RT-103A	ECG159		WEP62	ZEN-106
Q20	DS-66		GE-20	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A		WEP736	ZEN-128
Q21	DS-513		GE-61	PTC110	HEPS5000	RE 21	SK3042	RT-154	ECG152		WEP745	
VC1	DS-190											
VC2	DS-190											
U1	DM-32		GEIC-215	PTC734		RE 304-IC	SK3171	TVCM-19	ECG744		WEP220	
U2	DM-37											
U3	DM-51		GEIC-229	PTC787		RE 322-IC	SK3147	TVCM-39	ECG788			
U4	DM-44		GEIC-214	PTC729		RE 317-IC	SK3160	TVCM-29	ECG743		WEP2021	
U5	DM-84											
U6	DM-84											
U8	DM-56											
U9	DM-45											
U10	DM-33								ECG983			
U11	DM-50											

* Lead configuration may vary from original.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C7	250 16V	7936628	WBR250-16	TT15X260A	QE1-495	TVA-1161
C8	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C11	40 6V	7298555	NLW-40-6			
C24	3 35V	7936359		TDC335M035FL		SD35-3R39
C28	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C43	3 35V	7936359		TDC335M035FL		SD35-3R39
C52	100 16V NP	9349947		TCN425A		TVAN-1207.1
C54	1 10V	7936365		TDC105M035EL		SD35-19
C56	1 10V	7936365		TDC105M035EL		SD35-19
C59	3 35V	7936359		TDC335M035FL		SD35-3R39
C61	100 16V NP	9349947		TCN425A		TVAN-1207.1
C62	100 16V NP	9349947		TCN425A		TVAN-1207.9
C64	1 10V	7930782		TDC105M035EL		SD35-19
C66	1 10V	7936365		TDC105M035EL		SD35-19
C69	3 35V	7936359		TDC335M035FL		SD35-3R39
C75	40 16V	9340269	NLW-40-16			
C82	.33 35V	7936748		TDC334M050EL	QDT1-14	SD50-R339
C84	.33 35V	7936748		TDC334M050EL	QDT1-14	SD50-R339
C85	.33 35V	7936748		TDC334M050EL	QDT1-14	SD50-R339
C89	10 16V	7936360		TDC106M025FL	QDT1-64	SD25-109
C90	.33 35V	7936748		TDC334M050EL	QDT1-14	SD50-R339
C91	.33 35V	7936748		TDC334M050EL	QDT1-14	SD50-R339
C96B	1 10V	7936365		TDC105M035EL		SD35-19
C97	1 10V	7936365		TDC105M035EL		SD35-19
C118	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C119	1 10V	7936365		TDC105M035EL		SD35-19
C121	2 10V	7313127	WBR2-50	TT10X2	QE1-35	TVA-1301
C122	2 10V	7313127	WBR2-50	TT10X2	QE1-35	TVA-1301
C126	.33 35V	7936748		TDC334M050EL	QDT1-14	SD50-R339
C160	900 16V	7898283	PC1000-16	VTT1000L16	QV1-183	EV-1260
C184	10 10V	7895005		TDC106M025FL	QDT1-64	SD25-109
C186	10 10V	7895005		TDC106M025FL	QDT1-64	SD25-109
C187	250 16V	9345021	WBR250-16	TT15X260A	QE1-495	TVA-1161
C191	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C200	1000 16V	9341267	PC1000-16	VTT1000L16	QV1-183	EV-1260
C201	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39

NOTE: DEMAGNETIZE HEADS AFTER SERVICING



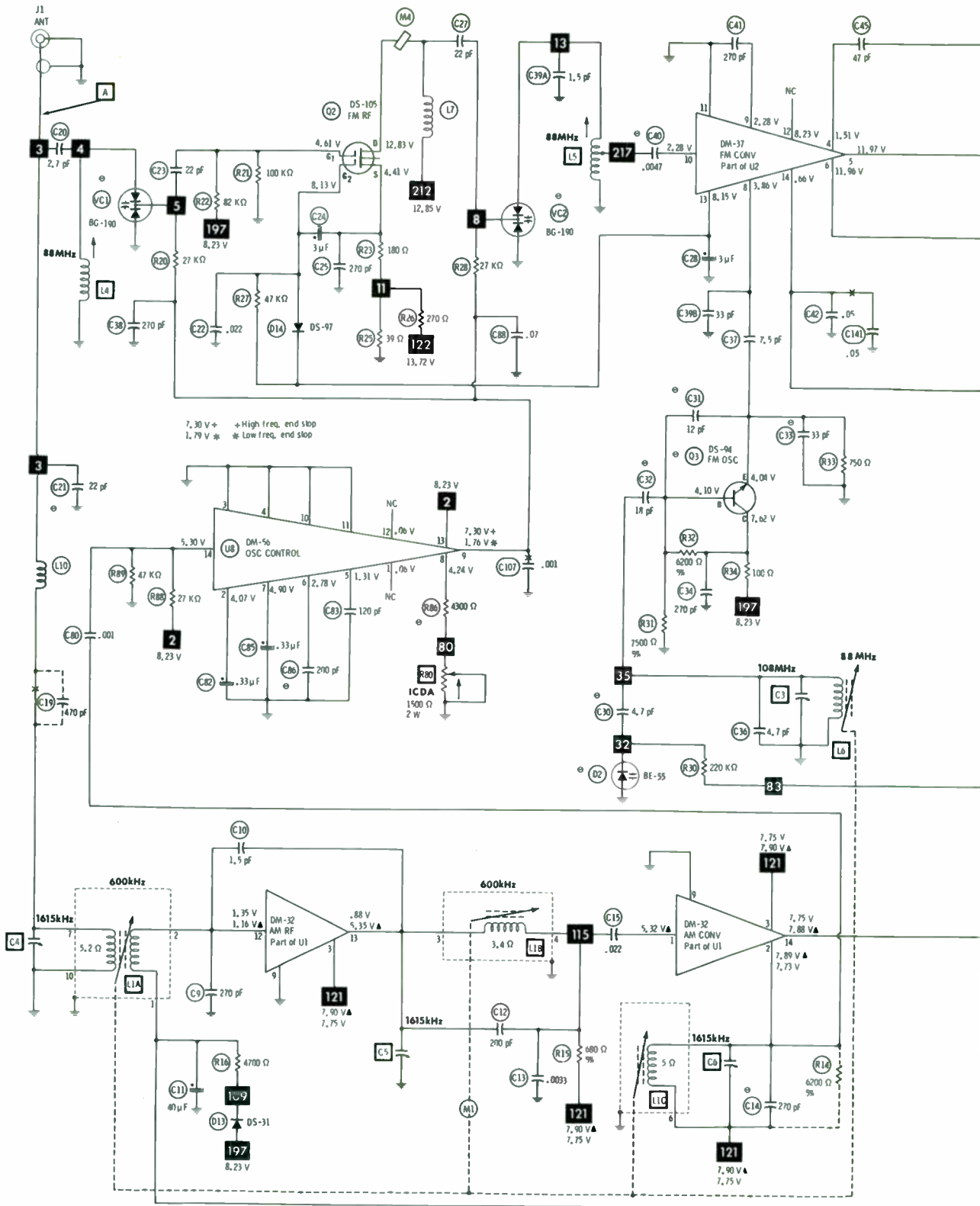
✖ Circuitry not used in some versions
 - - - Circuitry used in some versions
 ⊕ See parts list
 * Nominal value
 ⏚ Ground
 ▭ Chassis
 ▽ Common tie point
 Measurements with switching as shown unless noted:
 ■ FM Stereo signal ▲ AM
 ◆ Tape play
 Supply voltage maintained as shown at input.
 Voltages measured 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 1/2 W or less, 10% unless noted.
 Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITRACE**

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CADILLAC MODELS 86CFMT1/T2, 86KFMT1/T2

NOTE: DEMAGNETIZE HEADS AFTER SERVICING

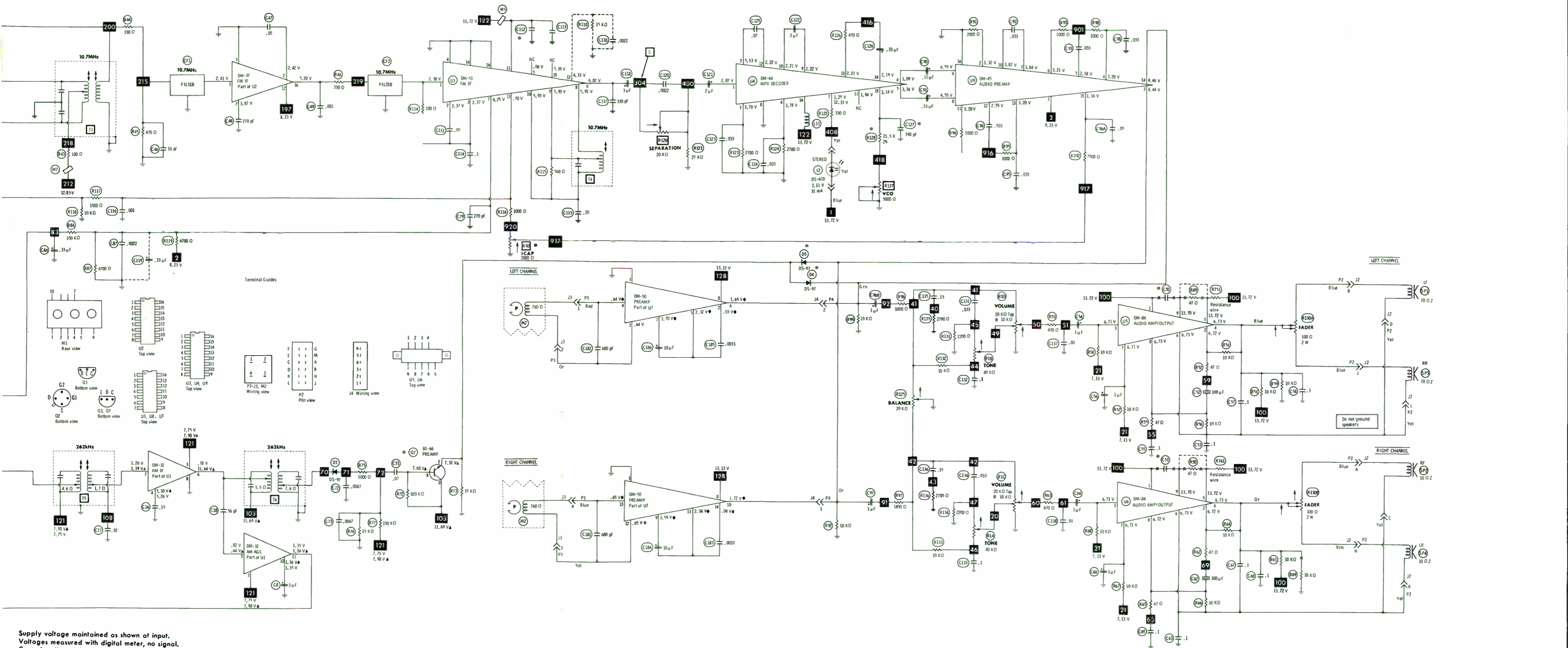


7.30 V + + High freq. end stop
 1.79 V * * Low freq. end stop

- *— 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:
 ■ FM Stereo signal ▲ AM
 ◆ Tape play

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITRACE**
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Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 10% unless noted.
 Value in () used in some versions.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA					
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.		
						Q-LINE	GENERAL LINE	
C1								
C3		9348419						
C4		16001446						
C5		9346601						
C6		7311368						
C9	270 10%		OTZ-270				10TCC-T27	
C10	1.5 NPO 100V ±.25							
C12	200 N750 100V 10%		OTN-200					
C13	.0033							
C14	270 N220 100V	7896854		C019F0332J03	SX233		10TCU-T20	
C15	.022 25V		UK25-223				MNC-332	
C16	.15 16V		UK16-154				10TCR-T27	
C17	.07 16V		UK16-683		MAG16015		HY-725	
C18	56 NPO 100V 5%				MAG1618		HY-665	
C19	470				CN0456		HY-640	
C20	2.2 NPO ±.25						10TCC-Q56	
C21	22 NPO 5%		OTZ-22	NP022	CN0422			
C22	.022		UK25-223				10TCC-Q22	
C23	22 NPO 5%		OTZ-22	NP022	CN0422		HY-725	
C25	270 100V 10%		OTZ-270				10TCC-Q22	
C26	270 10%		OTZ-270				10TCC-T27	
C27	270 10%		OTZ-270				10TCC-T27	
C29	22 NPO 5%		OTZ-22	NP022	CN0422		10TCC-Q22	
C30	4.7 N330 100V	9341540	OTZ-270				10TCC-T27	
C31	12 N330 100V	7897766					10TCS-V47	
C32	18 NPO 100V	7897740					10TCS-Q12	
C33	33 N330 100V	9341429					10TCC-Q18	
C34	270		OTZ-270				10TCS-Q33	
C36	4.7 N150 100V	7897765					10TCC-T27	
C37	7.5 NPO		OTZ-10	NP010	CN0410		HY-635	
C38	270 10%		OTZ-270				HY-635	
C39A	1.5 NPO ±.25						10TCC-Q47	
C39B	33 5%		OTZ-33	NP033	CH0433		10TCC-Q10	
C40	.0022 100V				GP222		10TCC-T27	
C41	.001						HY-635	
C42	270 100V 10%		OTZ-270				HY-635	
C44	.05 16V		UK16-503		MAG1615		10TCC-Q07	
C45	.05 16V		UK16-503		MAG1615		10TCC-Q10	
C46	47 NPO 5%		OTZ-47	NP047	CN0447		10TCC-T27	
C47	10 NPO		OTZ-10	NP010	CN0410		10TCC-Q10	
C48	.05 16V		UK16-503		MAG1615		10TCC-T27	
C49	270 NPO		OTZ-270				10TCC-Q10	
C50	.001 10%		00-102		GP210		10TCC-Q10	
C51								
C53	.1 16V		UK16-104		MAG1601		HY-650	
C55	.1 16V		UK16-104		MAG1601		HY-650	
C57	.1 16V		UK16-104		MAG1601		HY-650	
C58	.1 16V		UK16-104		MAG1601		HY-650	
C63	.1 16V		UK16-104		MAG1601		HY-650	
C65	.1 16V		UK16-104		MAG1601		HY-650	
C67	.1 16V		UK16-104		MAG1601		HY-650	
C68	.1 16V		UK16-104		MAG1601		HY-650	
C71	.07 16V		UK16-683		MAG1618		HY-640	
C72	.0047				SX247		MNC-472	
C73	.0047				SX247		MNC-472	
C74	.07 16V		UK16-683		MAG1618		HY-640	
C76	.07 16V		UK16-683		MAG1618		HY-640	
C79	270 100V 10%		OTZ-270				10TCC-T27	
C80	.001 10%		00-102		GP210		10TCC-Q10	
C81	470		00-102		GP347		10TCC-T47	
C83	120 N80 100V 5%							
C86	200 N750 100V 10%		OTN-200				10TCU-T20	
C87	.0022 100V 10%				GP222		10TS-Q22	
C88	.07 16V		UK16-683		MAG1618		HY-640	
C92	.033 16V		UK16-333		MAG16133		HY-630	
C93	.033 16V		UK16-333		MAG16133		HY-630	
C94	.033 16V		UK16-333		MAG16133		HY-630	
C95	.033 16V		UK16-333		MAG16133		HY-630	
C96A	.07		UK16-683		MAG1618		HY-640	
C98	.033 16V		UK16-333		MAG16133		HY-630	
C100		7895980						
C107	.001	7896282			GP210		10TS-Q10	
C110	.05	7896282	00-102		MAG5015			
C111	.0022		UK50-503		MAG5015			
C112	.05 16V							
C113		7895980						
C114	.1 16V		UK16-104		MAG1601		HY-650	
C115	.05 16V		UK50-503		MAG5015			
C116	.001		00-102		GP210			
C117	330 N2200 100V 5%						10TCY-T33	
C120	.0022				SX222		MNC-222	
C123	.033 16V		UK16-333		MAG16133		HY-630	
C124	.033 16V		UK16-333		MAG16133		HY-630	
C125	.07 16V		UK16-683		MAG1618		HY-640	
C127	390 N220 100V 2%	9341036						
C131	.033 16V		UK16-333		MAG16133		HY-630	
C132	.1 16V		UK16-104		MAG1601		HY-650	
C133	.1 16V		UK16-104		MAG1601		HY-650	
C134	.033 16V		UK16-333		MAG16133		HY-630	
C135	.15 12V				MAG12015		HY-365	
C136	.15 12V				MAG12015		HY-365	
C137	.01 16V		UK16-103		MAG1611		HY-420	
C138	.01 16V		UK16-103		MAG1611		HY-420	

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 (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA					
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.		
						Q-LINE	GENERAL LINE	
C141	.05		UK50-503		MAG5015			
C159	1		UK25-104				HY-750	
C181	680 10%		00-681	GP680	MAG2501		10TS-T68	
C182	680 10%		00-681	GP680	GP368		10TS-T68	
C183	.0033			C019FD332J03	GP368		MNC-332	
C185	.0033			C019FD332J03	SX233		MNC-332	
C204	.033				SX233			

*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.
R1A	Tone-Right	40K	7899379 (1)				
R1B	Tone-Left	40K	7899382 (2)				
R1C	Volume-Right	20K Tap					
R1D	Volume-Left	20K Tap					
R80	IC DA Adjust (Tune Volt Adjust)	1500 2W	7899466				
R90	ICAP	20K	9349022				U260R253B
R120	Separation	20K	9349022				U260R253B
R125	Balance	20K	9349022				U260R502B
R127	VCO	5000	9349445				
R130A	Fader-Left	100 2W	7899379 (1)				
R130B	Fader-Right	100 2W	7899382 (2)				
R191	Speed	10K	7932428				

(1) Used in model 86KFMT1/T2
(2) Used in model 86CFMT1/T2

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1A	AM FM (600kHz)	(1)			(1) Part of Tuner (M1)
L1B	AM FM (600kHz)	(1)			
L1C	AM Oscillator (16.15kHz)	(1)			
L4	FM Antenna (88MHz)	9348413			
L5	FM RF (88MHz)	9348414			
L6	FM Oscillator (88MHz)	7897878 (1)			
L7	FM RF	7934553		4610	
L10	RF Choke	7255738		4610	
L11	RF Choke (6.8uH)	7934553			
T1	FM IF (10.7MHz)	9346544			
T4	FM IF (10.7MHz)	9346543			
T5	AM IF (262kHz)	9349015			
T6	AM IF (262kHz)	9349372			

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.	
L2	340mA	.11	.40mH	7302543			

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
	4" X 10" PM, 10 Ohms	7895010		Cadillac, Fleetwood
	6" X 9" PM, 10 Ohms	9348870		Cadillac, Eldorado, Fleetwood
	6" X 9" PM, 10 Ohms	9349690		Seville
	3 1/2" RO PM, 10 Ohms	16001996		Eldorado
	3 1/2" RO PM, 10 Ohms	16002296		Seville

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	10A Quick Acting		In Fuse Block	AGC10		311010		

MISCELLANEOUS

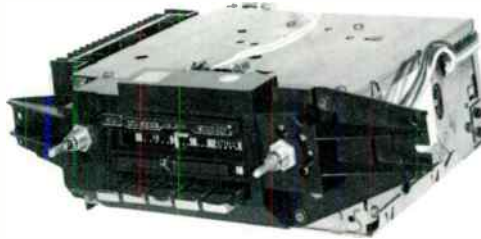
ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	1223695 (1)	10.7MHz
CF2	Filter	1223695 (1)	10.7MHz
I2	LED	7937608	Stereo (2.11V @ 31mA)
J1	Socket	9340526	Antenna
J3	Socket	9348496	Tape Head (Includes Cable)
J4	Socket	7897261	Tape Board
K1	Solenoid	9347908	Headshift
M1	Tuner	7898352	AM
M2	Head	1224126	8 Track Stereo Play
M3	Motor	16002826	Tape Transport (3100rpm @ 6.19V)
P2	Plug	1224150	Speaker
P4	Plug	16001347	Tape Board
S1	Switch	16001581	Manual Program Select (On Volume)
S2	Switch	7898278	AM/FM
S6	Switch	7313343	Auto Program Select
S8	Switch	16000668	Panel Light (Activated by insertion of cartridge)
S9	Switch	7899348</	



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



MODEL 86CFMW1

Models 86CFMW1(16000666) 78 Cadillac,Deville,Fleetwood
86DFMW1(16000686) 78 Cadillac,Limousine
86KFMW1(16000676) 78 Cadillac,El Dorado

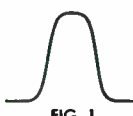
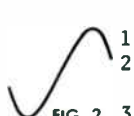
DELCO MODELS 86CFMW1, 86DFMW1, 86KFMW1

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

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8AN1104

ALIGNMENT INSTRUCTIONS

Check for specified source voltage
 Connect low sides of generator and indicator to ground unless specified otherwise.
 Use only enough generator output to provide a usable indication.
 Suggested Alignment Tools: GC ELECTRONICS:  FIG. 1  FIG. 2

PUSH-BUTTON ADJUSTMENT

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

T5,T6,T10 Top,T10 Bottom.....9296
 T1,T2.....9440
 C1,C2,C6.....9051

AM ALIGNMENT—SELECTOR IN AM POSITION

Connect output meter across speaker voice coil.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST	REMARKS
High side thru .1uF	262kHz 400-Hz mod.	High freq end stop	T6,T5	Adjust for maximum.
Check setting of oscillator coil core L1F Rear of core should be 1-3/8" from mounting end of coil form.				
High side thru 82pF to antenna input	1615kHz	High freq end stop	C6,C5,C4	Adjust for maximum.
"	600kHz	600-kHz signal	L1D,L1E	Adjust for maximum. Repeat alignment.

With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust C4 for maximum output. Antenna adjustment C4 is located above tuning shaft through alignment hole.

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

High side of generator thru .001uF to point A.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to point B.	(1) T2,T1	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.
 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.	(1) T2,T1	Adjust T2,T1 for maximum amplitude and straightness of line, similar to Fig. 2.

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 Modulated	108MHz	AC probe of VTVM to speaker.	C3,C2,C1	Adjust for maximum.
88MHz Modulated	88MHz	"	L1A,L1B,L1C	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

ALIGNMENT INSTRUCTIONS (Continued)

WB RF ALIGNMENT—SELECTOR IN WB POSITION

High side of generator thru .001mfd to point A		low side to ground.		
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
98MHz Unmodulated	98MHz	DC probe of VTVM to point D common to ground.	T10 Bottom	Apply 12 volts to point C. Adjust for maximum. Remove 12 volts from C.
"	"		T10 Top	Engage search. Adjust for accurate stop.

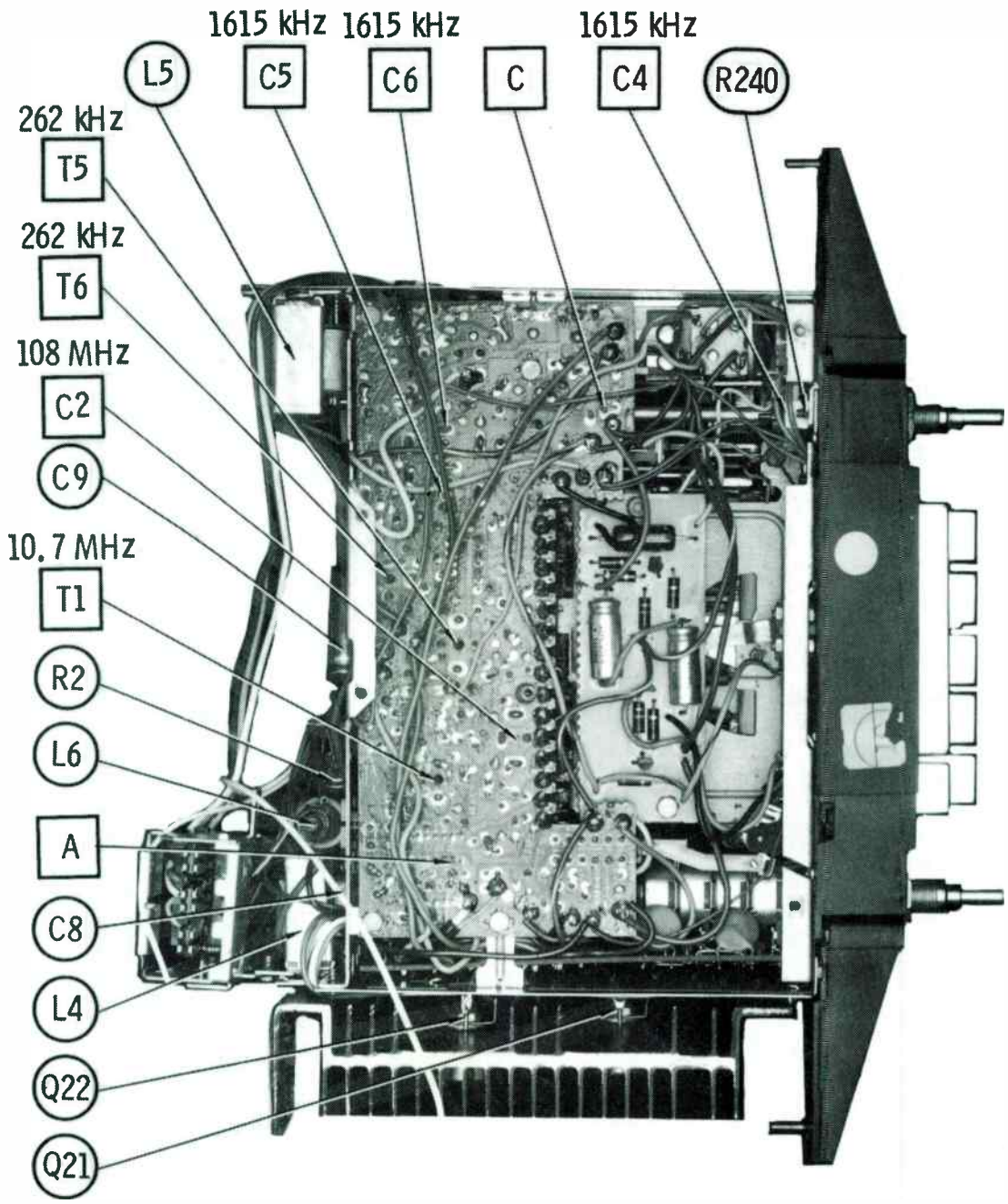
FM STEREO ALIGNMENT USING AUDIO GENERATOR

GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
	Tune radio across band.	R609	Adjust for MINIMUM stereo indicator flashing on random noise while tuning.

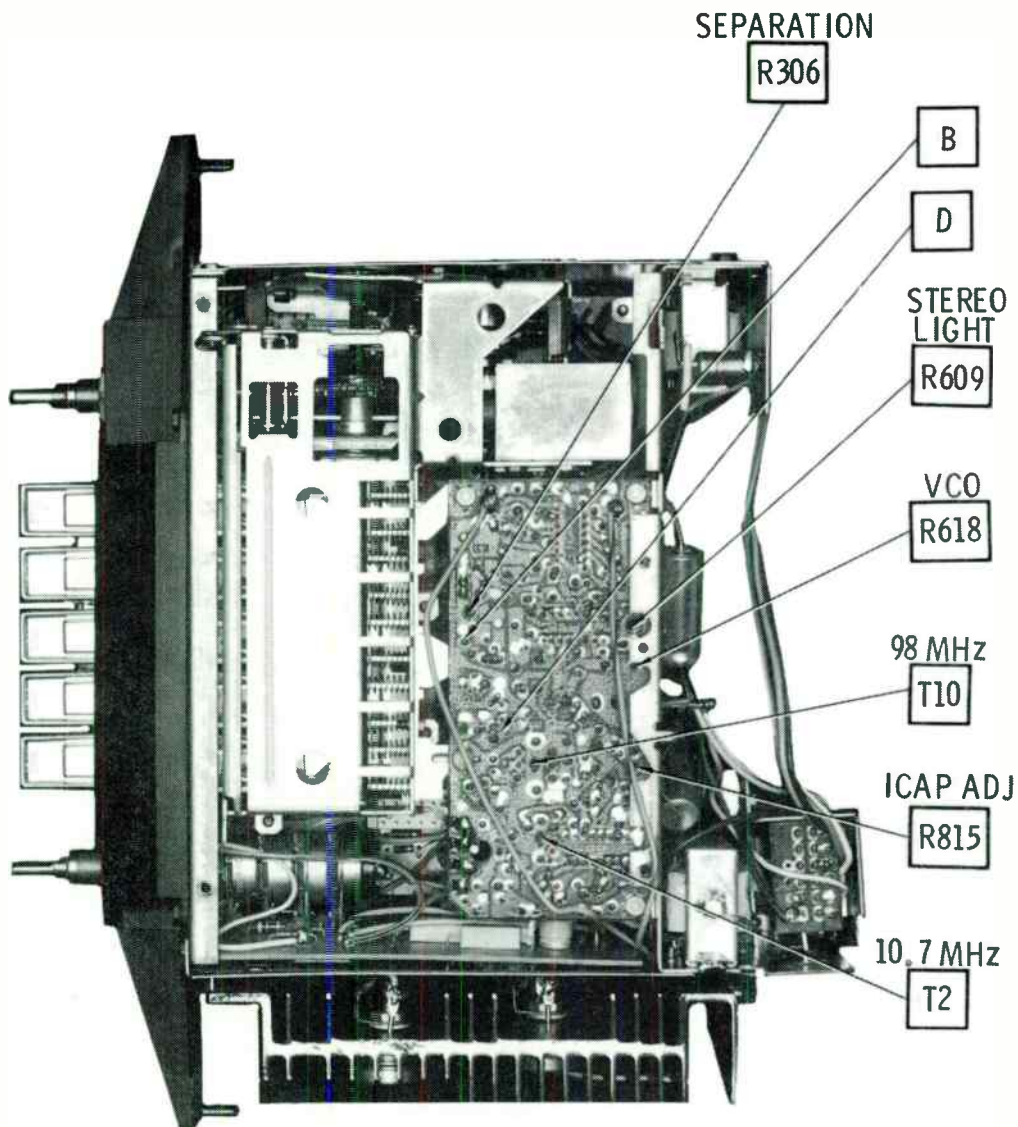
FM STEREO ALIGNMENT USING AUDIO GENERATOR

GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
	Tune in a weak stereo station.	R618	Adjust until stereo indicator light turns on.
	Tune in strong stereo station.	R306	Adjust for best separation.
	Tune off station.	R815	Adjust for maximum quieting.

DELCO MODELS 86CFMW1, 86DFMW1, 86KFMW1

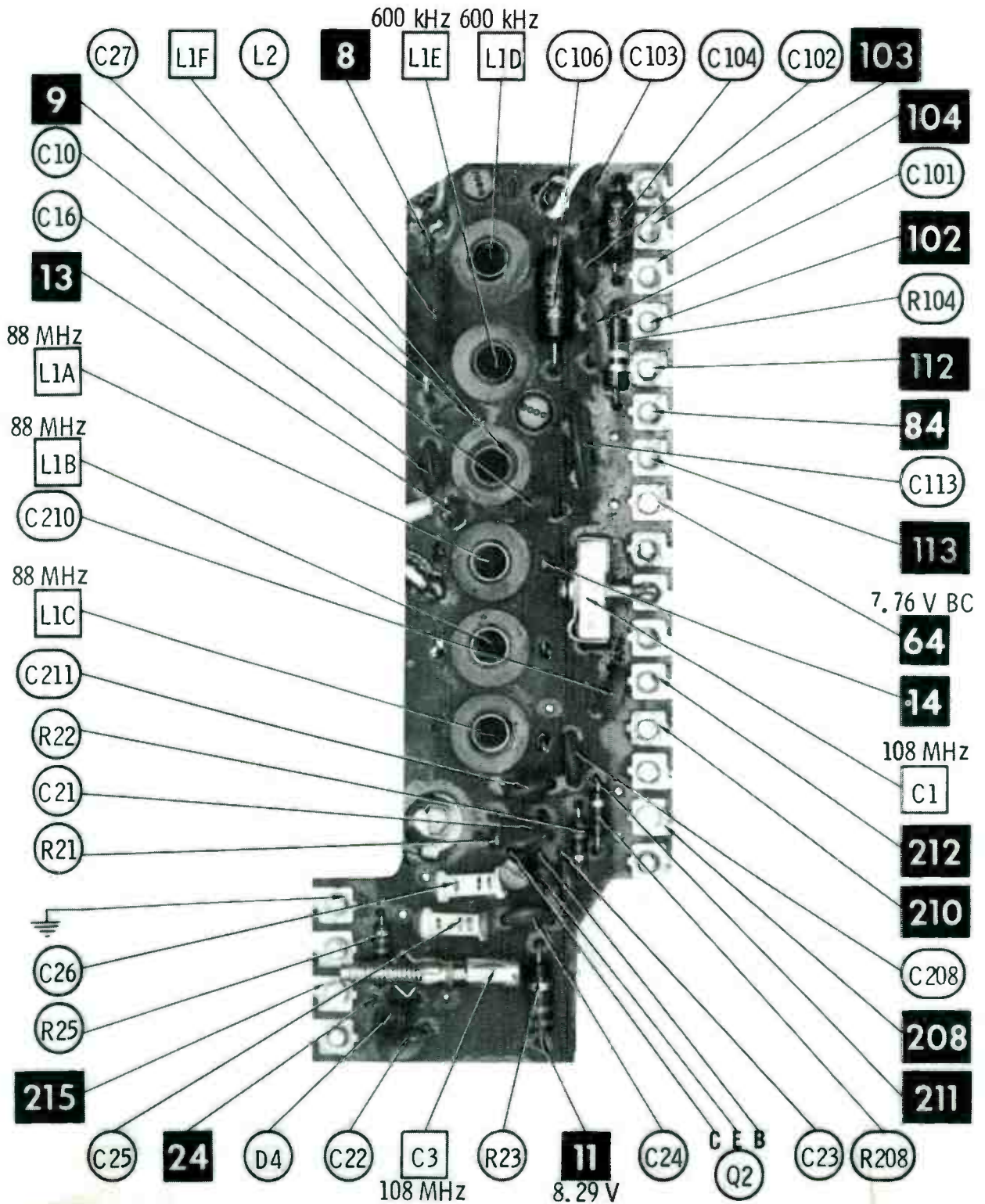


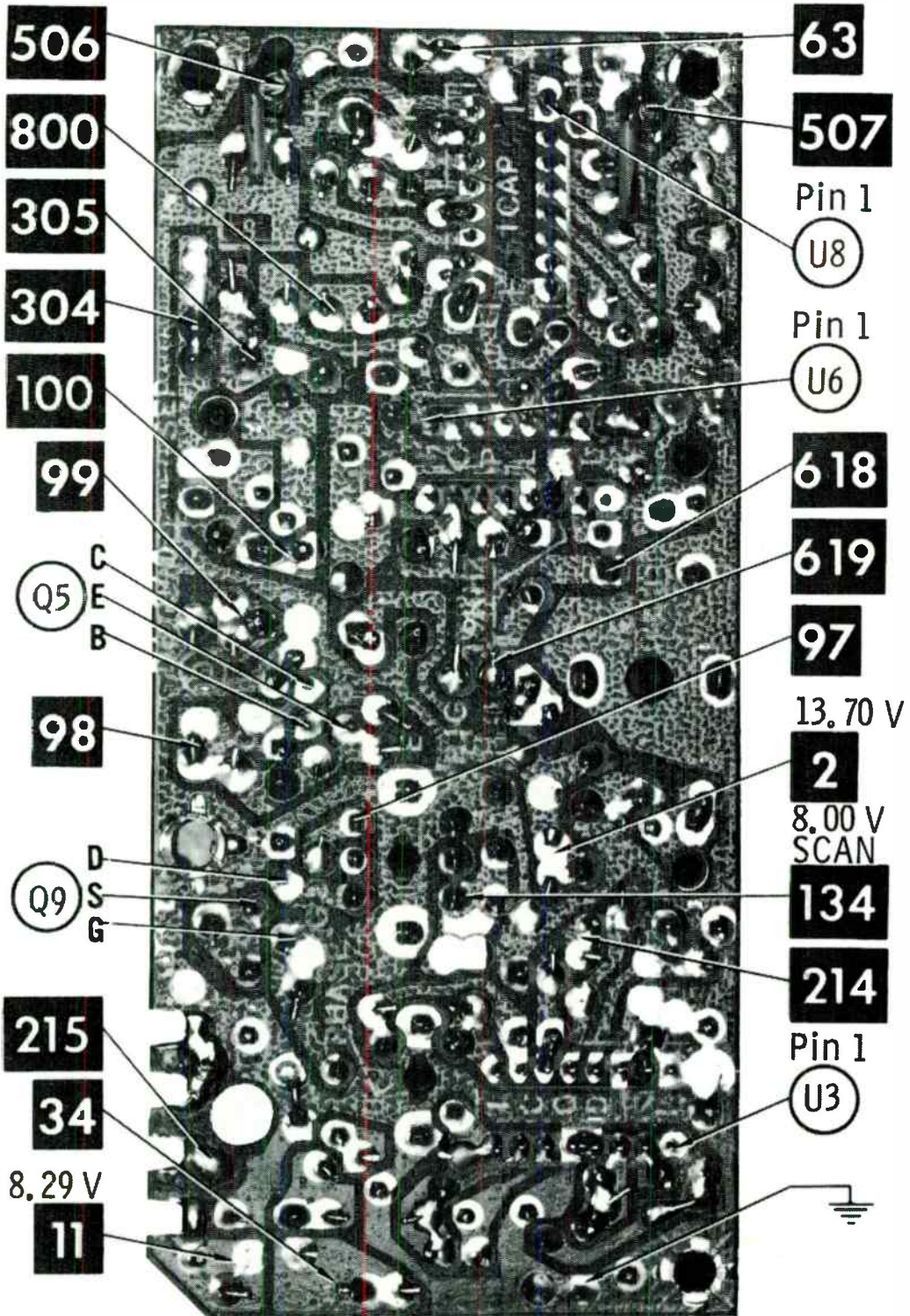
OVERALL-TOP



DELCO MODELS 86CFMW1, 86DFMW1, 86KFMW1

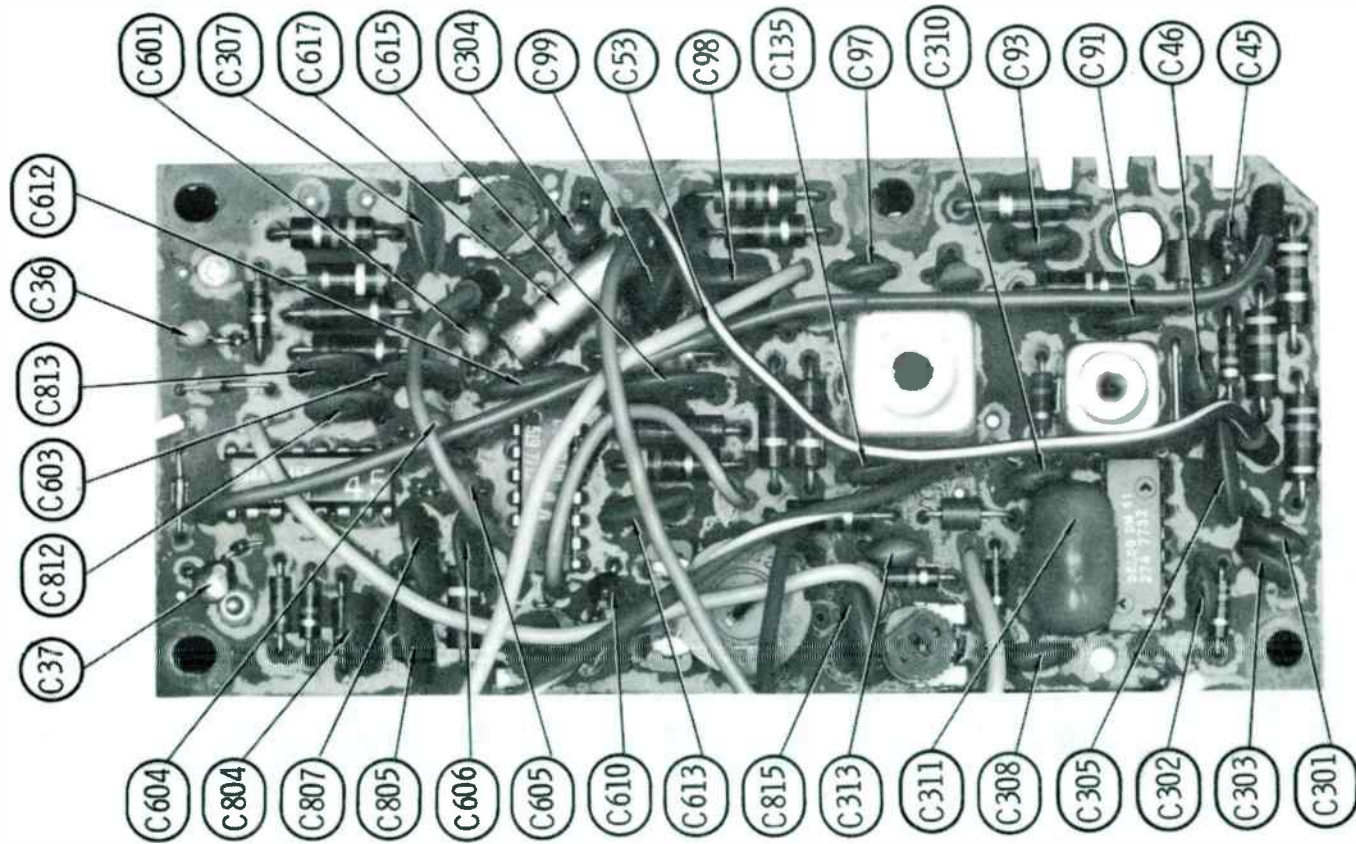
OVERALL-BOTTOM



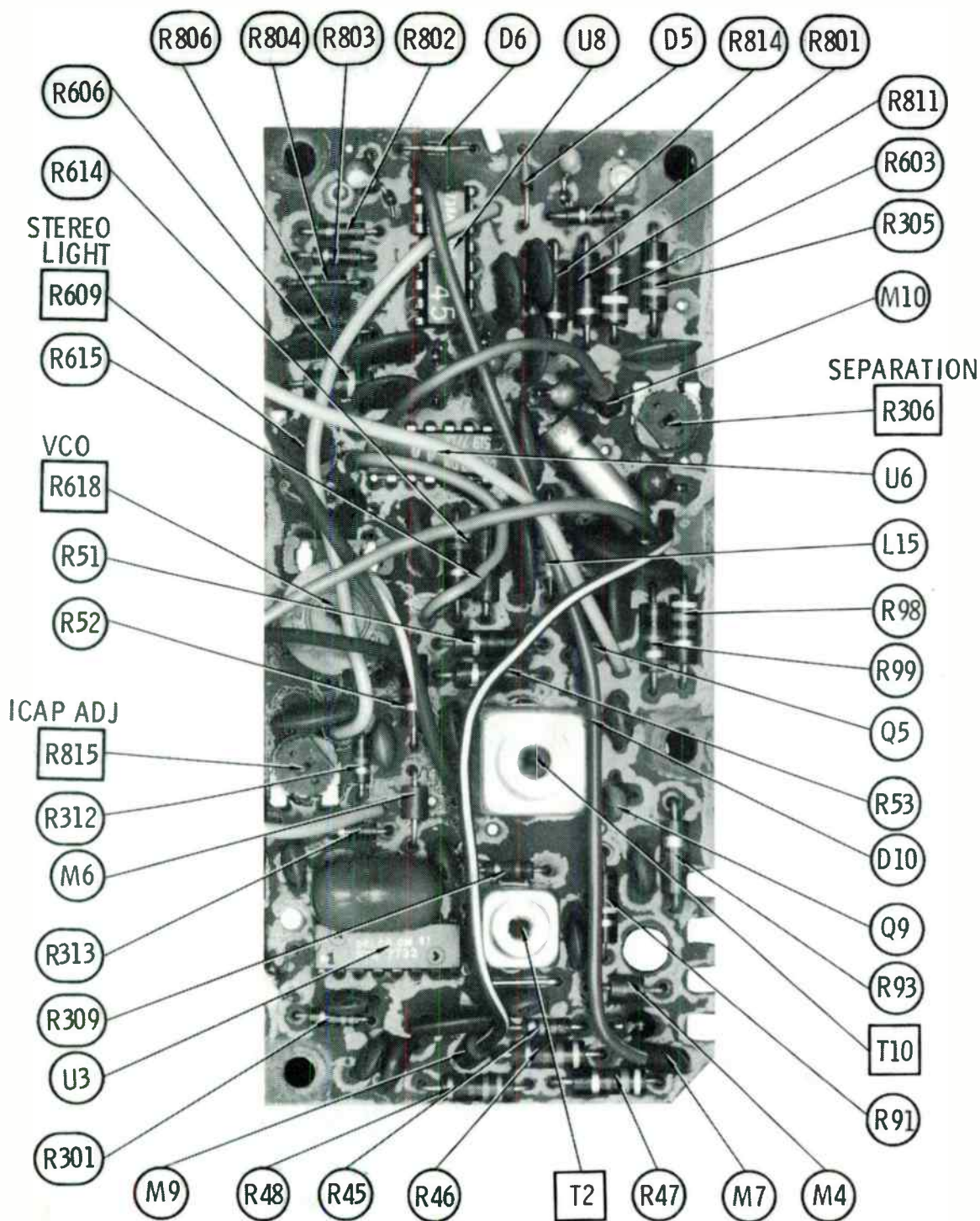


DELCO MODELS 86CFMW1, 86DFMW1, 86RFMW1

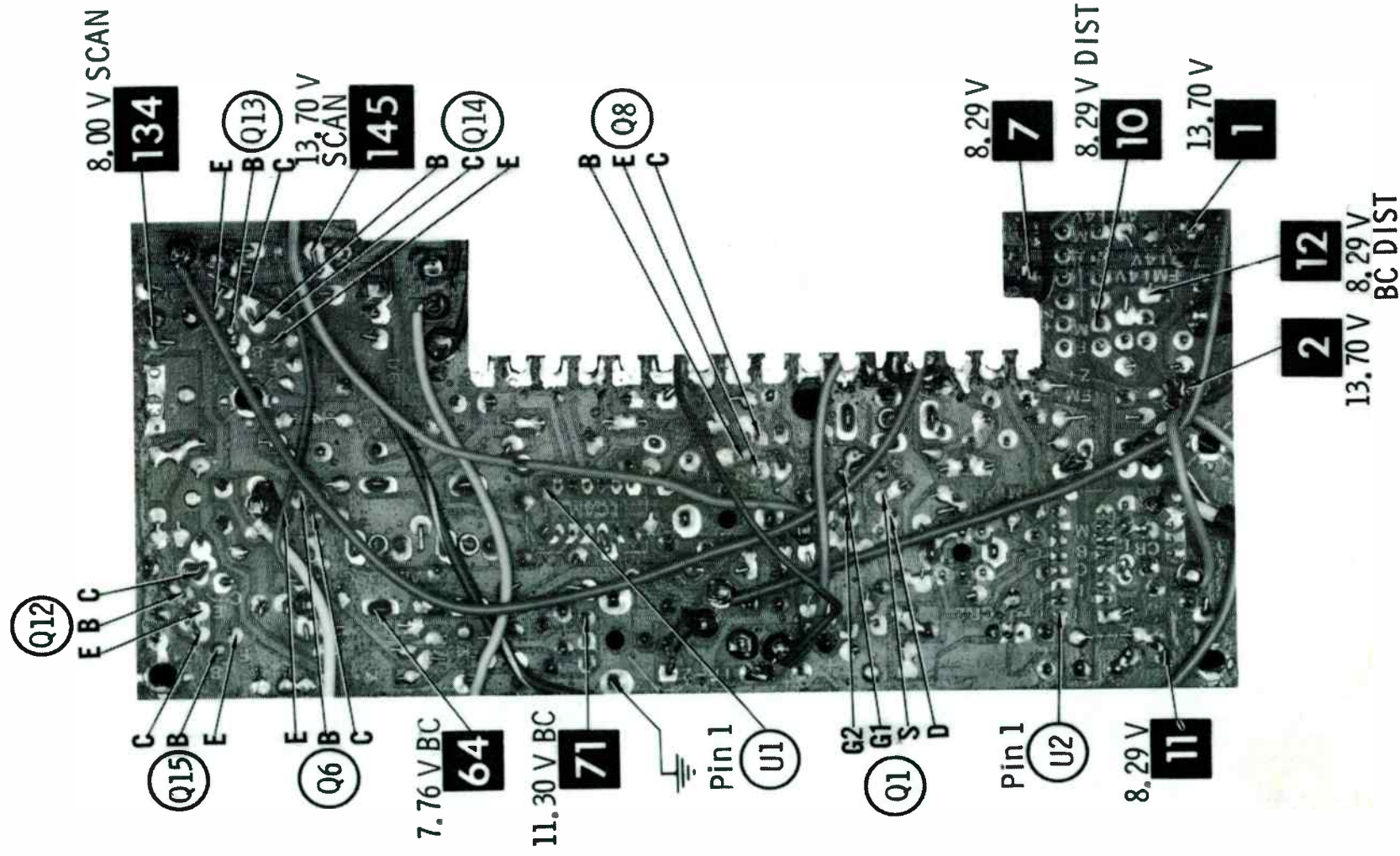
MPX BOARD

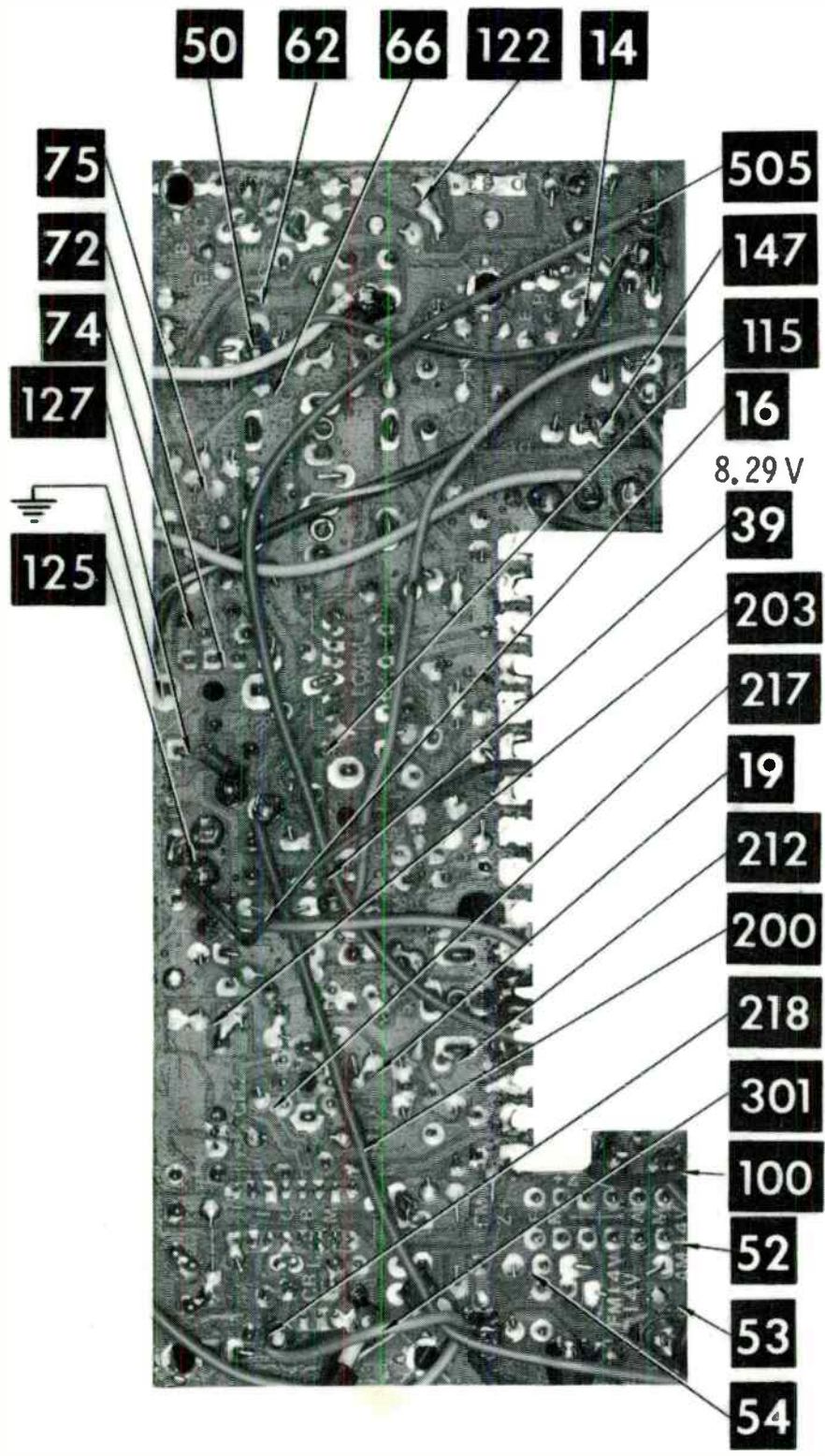


MPX BOARD



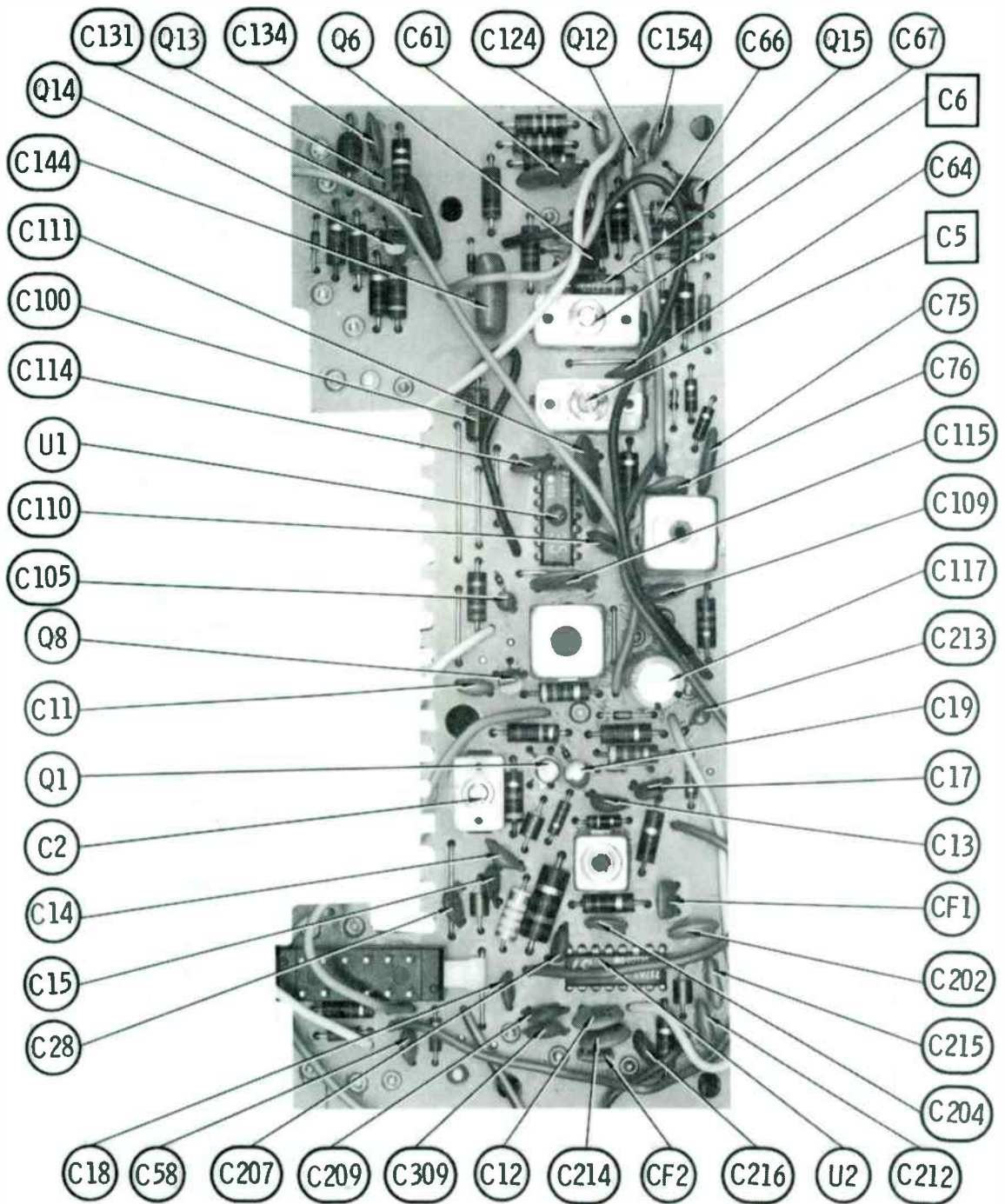
MPX BOARD



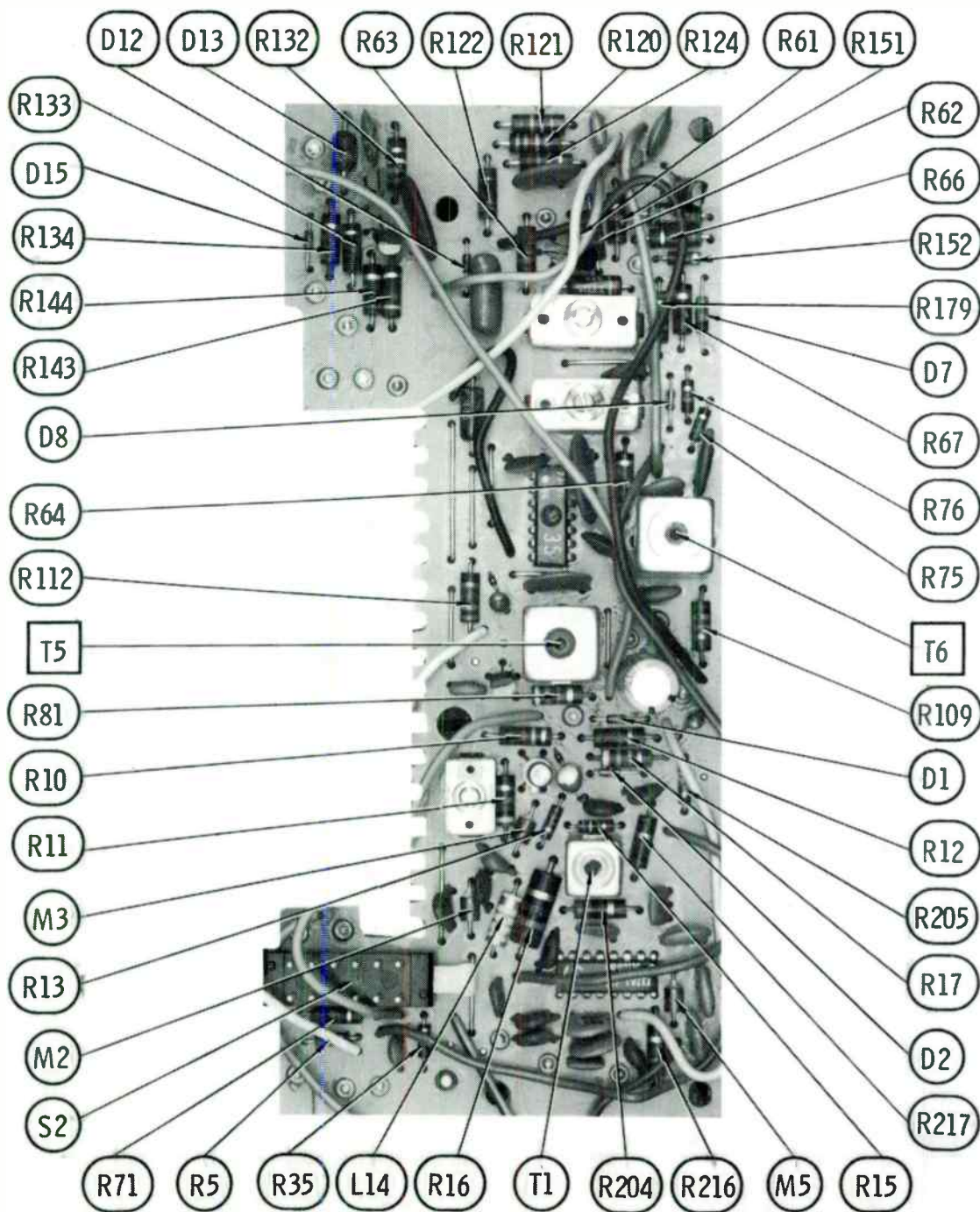


DELCO MODELS 86CFMW1, 86DFMW1, 86KFMW1

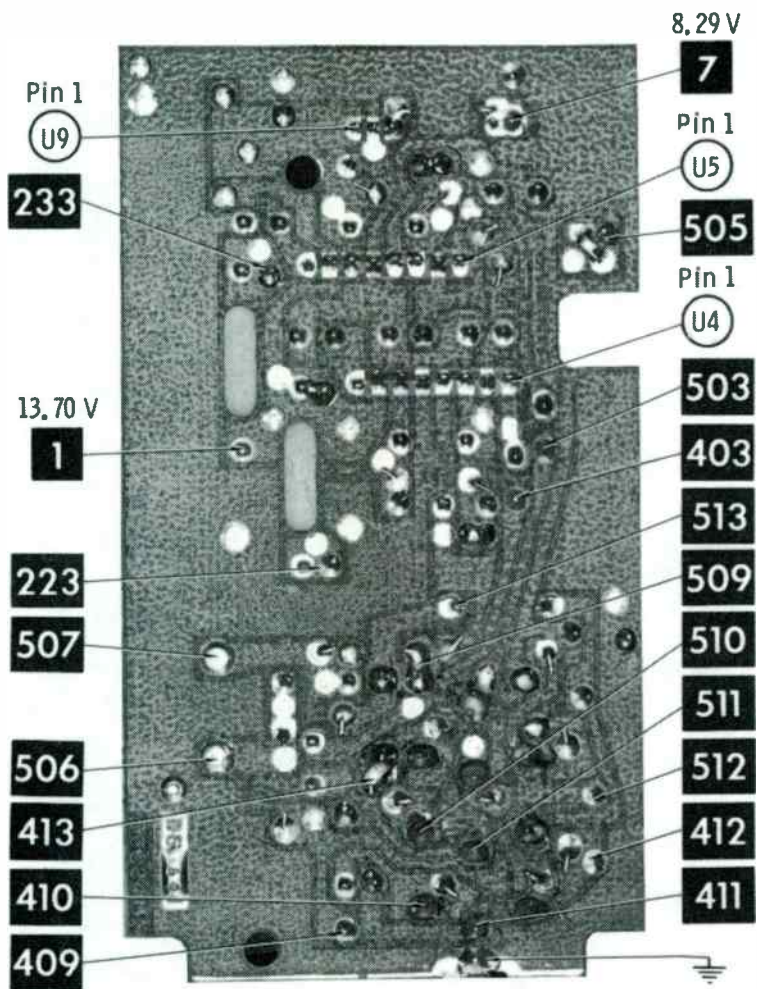
IF BOARD



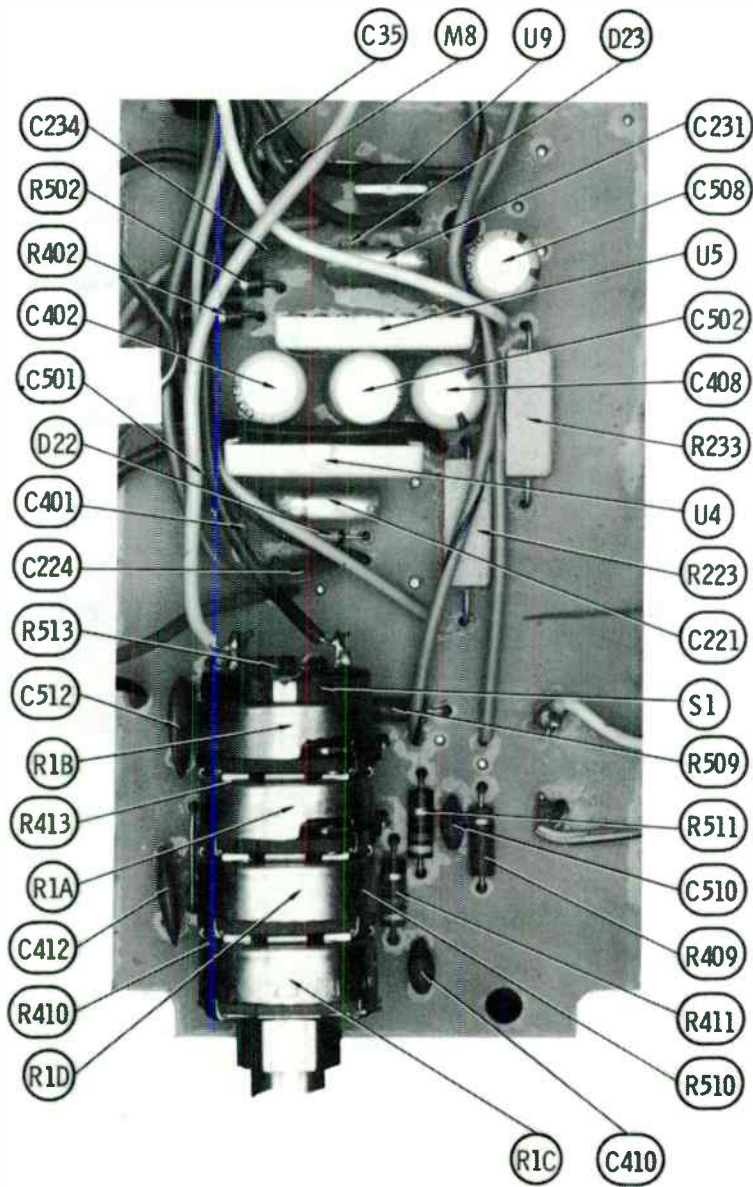
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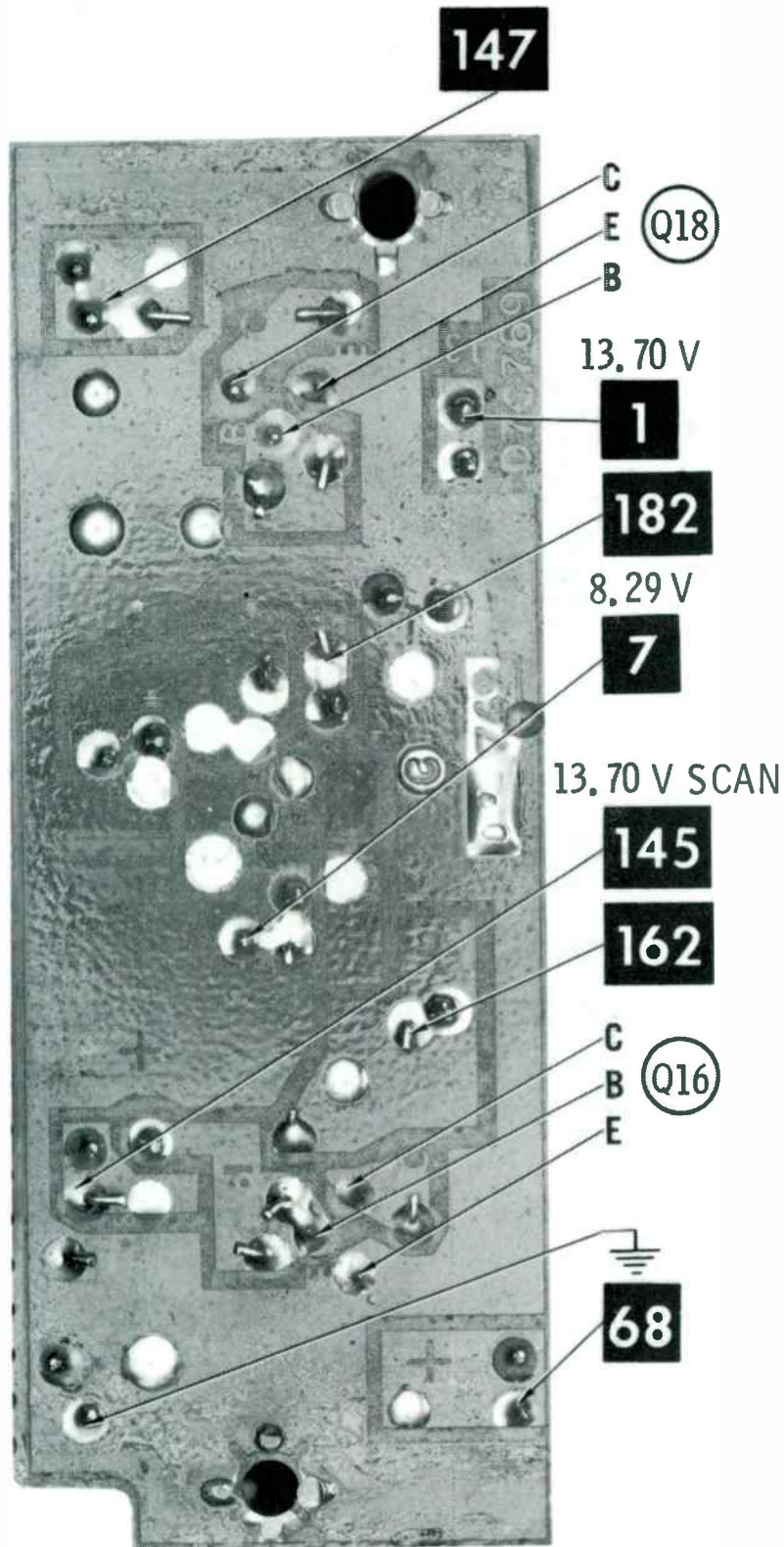
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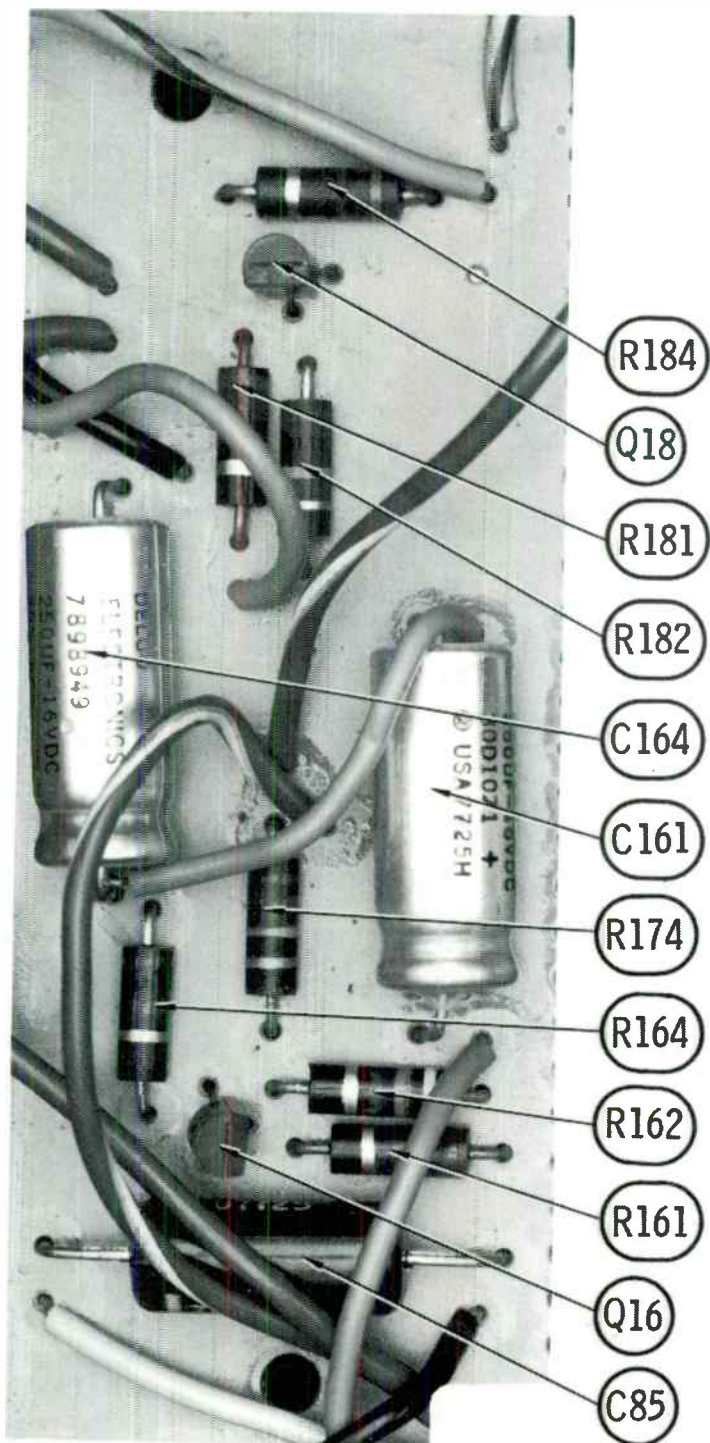
AF BOARD



AF BOARD

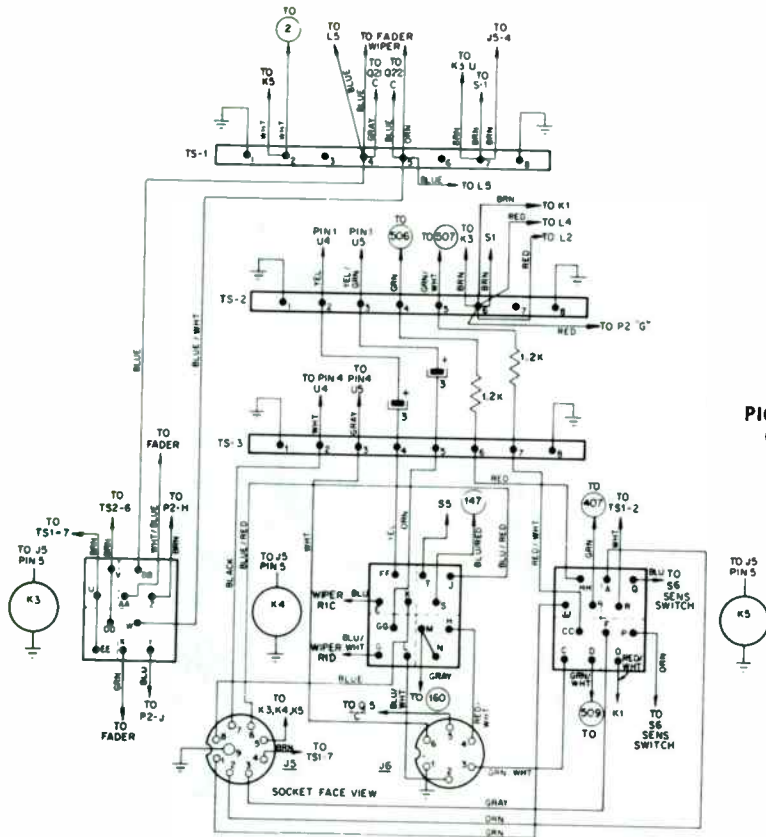


SCAN BOARD

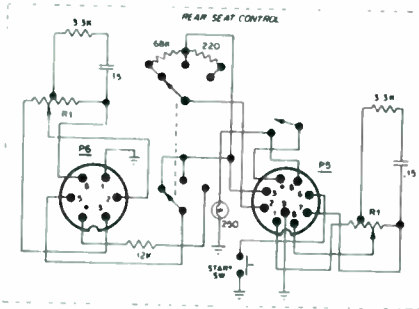


SCAN BOARD

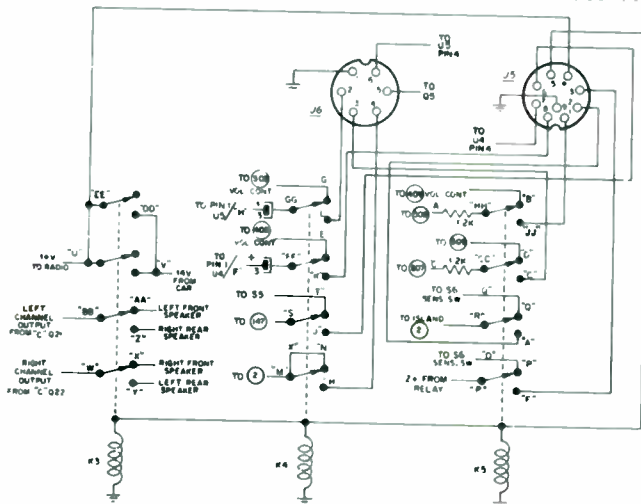
MODEL 86DFMW1



PICTORIAL REAR VIEW OF REMOTE MODEL



REMOTE CONTROL HEAD FOR 86DFMW1



SCHEMATIC DIAGRAM FOR RELAY & CABLE OF REMOTE MODEL 86DFMW1 (Relays shown de-energized)

Courtesy of the Manufacturer

MODEL 86DFMW1

PARTS LIST

AM/FM-WB
(STEREO)

46	.....7313139...	SLIDE ASM., TUNER
47	.....1221409...	SOLENOID & PLUNGER PKG.
48	.....1223675...	SPRING, CORE BAR CONNECTING LINK
5	.....7935066...	SPRING, DIAL RETURN, HELICAL SHAPE
49	.....7930814...	SPRING, ANTI-RATTLE
49A	.....9342554...	SPRING, FINGER BAR
50	.....7313679...	SPRING, POINTER RETURN
51	.....7273574...	SPRING, POWER
52	.....7274182...	SPRING, SOLENOID RETURN
53	.....9342607...	SPRING, TREADLE BEARING
54	.....7280166...	SPRING, TREADLE RETURN
55	.....7302802...	SPRING, TUNER SLIDE RETURN
56	.....7930550...	SWITCH ASSEMBLY, SOLENOID (INCLUDES SOLENOID SWITCH)
56A	.....7934761...	BRACKET, SLIDE SWITCH MTG.
57	.....7268030...	SWITCH (S3) SOLENOID
58	.....7933899...	SWITCH, SENSITIVITY (INCLUDES ¼ WATT RESISTORS) SLIDE TYPE (S4)
MISCELLANEOUS		
S2	.....7897087...	SWITCH, AM/FM SLIDE TYPE (S2)
S5	.....9349438...	SWITCH, SCAN (S6)
59	.....1223177...	SWITCH ASM., START (S5)
60	.....1223713...	TREADLE BAR ASM., (INCL. CLUTCH)
P2	.....*1224150...	CONNECTOR, PLUG "A" LEAD & SPEAKER (12 TERMINALS-ON RADIOS)
P2A	.....1224144...	BRACKET, CONNECTOR
J2	.....*12004451...	CONNECTOR, SOCKET, "A" LEAD & SPEAKER (12 TERMINALS-IN CAR)
61	.....1222611...	INSULATOR PKG., RADIATOR MTG.
11	.....	LAMP, DIAL LIGHT, NO. 293
12	.....7937608...	LAMP, STEREO INDICATOR
13	.....7937608...	LAMP, FM INDICATOR
62	.....1223521...	RADIATOR PKG., TRANSISTOR HEAT SINK, DS-501 (INCL. 1222611) INSULATOR PKG.
J1	.....*9340526...	SOCKET, ANTENNA CONNECTOR
XL1	.....1222920...	SOCKET & LEAD ASM., DIAL LIGHT
XL2	.....*7933627...	SOCKET & LEAD ASM., FM & STEREO INDICATOR (INCL. BRACKET, SOCKET & LAMPS)

- * DEVILLE & FLEETWOOD 86CFMW1
LIMOUSINE 86DFMW1
- SEVILLE & EL DORADO 86KFMW1

* PART FIRST USED IN 1978

† AVAILABLE FROM CAR DIVISION ONLY

CADILLAC REMOTE CONTROL MODEL 86DFMW1

This Model same as Model 86CFMW1 except for the following parts

- J5.....7933865... CABLE (MATES WITH REAR SEAT
CONTROL CABLE)
- J6.....7933865... CABLE (MATES WITH REAR SEAT
CONTROL CABLE)
- K3.....7933901... RELAY
- K4.....7263471... RELAY
- K5.....7263471... RELAY

REMOTE CONTROL & CABLE

- R1.....7933756... CONTROL, VOLUME TONE, SWITCH
- 11.....
- 7279805... NUT "SPECIAL"
- 1219687... PUSHBUTTON ASM.
- S6.....7283643... SWITCH ASSEMBLY
- †1602758... KNOB, CONTROL
- †1497099... KNOB, TONE

SPEAKERS

- LS-1.....7895010... SPEAKER, FRONT, 4 x 6".....DEVILLE &
(107 X 158 mm) FLEETWOOD
LIMOUSINE
- LS-1...*16001996... SPEAKER, FRONT, 3½.....EL DORADO
ROUND
- LS-1...*16002296... SPEAKER, FRONT, 3½.....SEVILLE
ROUND
- LS-2.....9348870... SPEAKER, REAR, 6 X 9".....DEVILLE &
(163 X 236 mm) FLEETWOOD
LIMOUSINE
- LS-2.....9349690... SPEAKER, REAR, 4 X 10".....SEVILLE
(110 X 256 mm)

INSTALLATION PARTS

- * † 1613626... KNOB, TONE & FADER
- † 1497099... KNOB, TONE & FADER
- * † 1613623... KNOB, VOLUME & TONE
- † 1613624... KNOB, VOLUME & TONE
- † 8915109... HARNESS, FRONT SPEAKER

DELCO MODELS 86CFMW1, 86DFMW1, 86KFMW1

Courtesy of the Manufacturer

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 13 Colors
Shielded Hook-up Wire	Use BELDEN No. 8524 (Stranded) Available in 13 Colors or 8421
Rear Seat Speaker Extension Cable	Use BELDEN No. 8401
Bonding Strap	Use BELDEN No. 8782 (Stranded) Coded Parallel Leads (3/8 In.) or 8670 (3/4 In.)
	Use BELDEN No. 8661

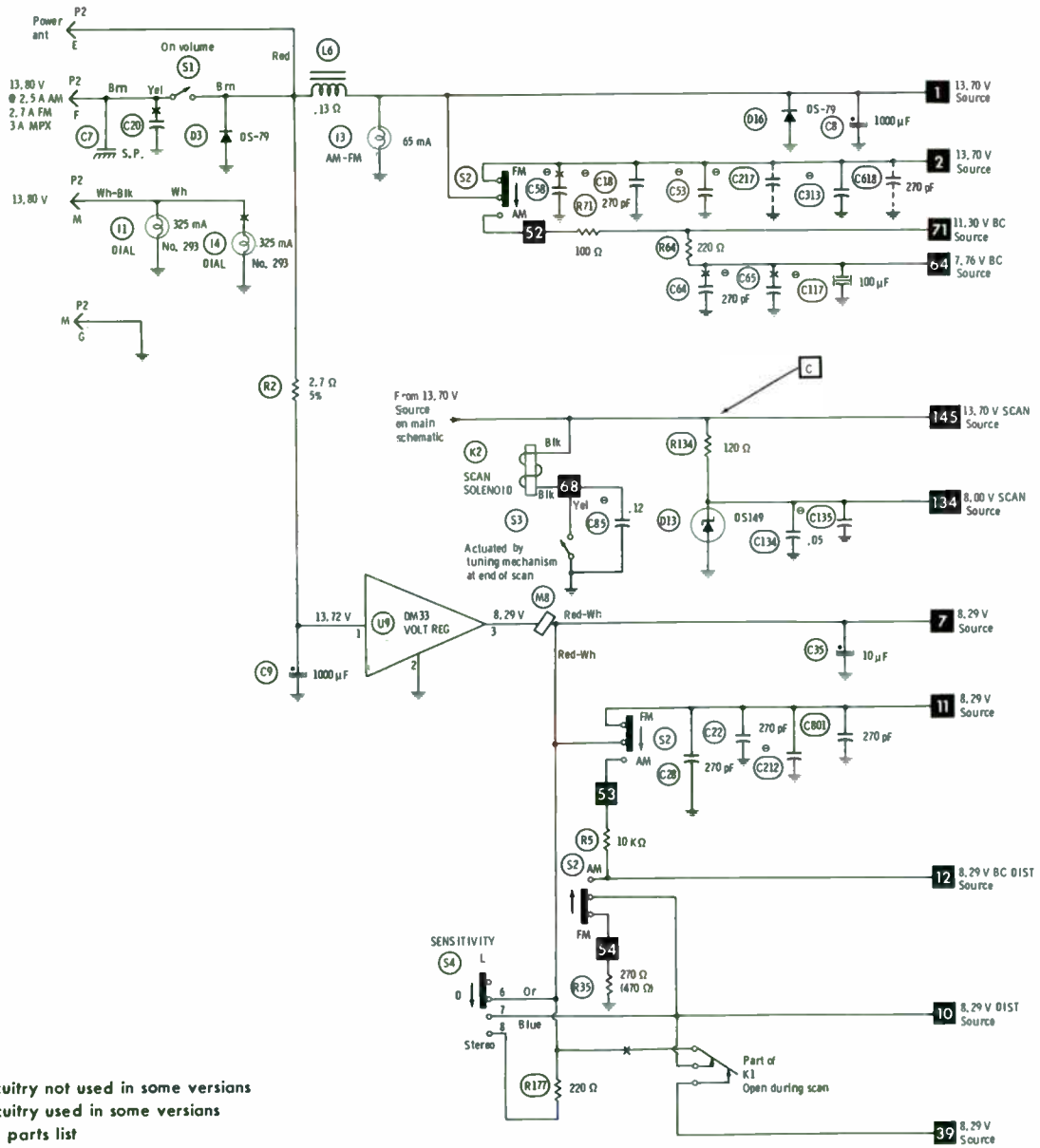
SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. 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.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.			
D1	DS-31		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177						
D2	DS-97		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177						
D3	DS-79		GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP1062	WEP1062	WEP156	212-76	
D4	DS-55			PTC301		RE 250	SK3463		ECG601						
D5	DS-97		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177						
D6	DS-97		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177						
D7	DS-27		1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109	1N34A	WEP1062	WEP134	WEP162	ZEN-430	
D8	DS-97		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177						
D10	DS-97		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177						
D12	DS-31		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177						
D13	DS-149		GEZD-8.2	Z88. 2A	HEPZ0411	RE 112	SK3136	RT-257	ECG5072	1N4738A	WEP1062	WEP1108	WEP1062		
D15	DS-31		GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177						
D16	DS-79		GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	WEP122	WEP156	212-76	
D22	DS-189		GEZD-33	Z833A	HEPZ0426	RE 130	SK3095	RT-250	ECG147	1N4752A	WEP1122	WEP1122	WEP1122	ZEN-512	
D23	DS-189		GEZD-33	Z833A	HEPZ0426	RE 130	SK3095	RT-250	ECG147	1N4752A	WEP1122	WEP1122	WEP1122	ZEN-512	
Q1	DS-105		GE-FET-4	PTC182	HEPF2007	RE 199	SK3065	RT-181	ECG222		WEP905	WEP905	WEP905	121-826	
Q2	DS-82		GE-82	PTC103	HEPS0013	RE 26	SK3118	RT-303	ECG159		WEP62	WEP62	WEP62	ZEN-106	
Q5	DS-83		GE-82		HEPS0012	RE 26	SK3025	RT-103A	ECG159		WEP736	WEP736	WEP736	ZEN-128	
Q6	DS-66		GE-20	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A		WEP736	WEP736	WEP736	ZEN-128	
Q8	DS-66		GE-20	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A		WEP736	WEP736	WEP736	ZEN-128	
Q9	DS-88		GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312		WEP736	WEP736	WEP736	ZEN-123	
Q12	DS-47		GE-20	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A		WEP736	WEP736	WEP736	ZEN-128	
Q13	DS-66		GE-20	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A		WEP736	WEP736	WEP736	ZEN-128	
Q14	DS-66		GE-20	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A		WEP736	WEP736	WEP736	ZEN-128	
Q15	DS-66		GE-20	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A		WEP736	WEP736	WEP736	ZEN-128	
Q16	DS-66		GE-20	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A		WEP736	WEP736	WEP736	ZEN-128	
Q17	DS-66		GE-20	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A		WEP736	WEP736	WEP736	ZEN-128	
Q18	DS-60		GE-64	PTC153	HEPS9100	RE 33	SK3156	RT-144	ECG172		WEP971	WEP971	WEP971	ZEN-128	
Q22	DS-501		GE-20	PTC136	HEPS0015	RE 13	SK3124	RT-102	ECG123A		WEP736	WEP736	WEP736	ZEN-128	
Q23	DS-501		GE-4	PTC106A	HEPG6006	RE 8	SK3012	RT-125	ECG105		WEP233	WEP233	WEP233		
U1	DM-35		GEIC-239		HEPG6006	RE 8	SK3012	RT-125	ECG105		WEP233	WEP233	WEP233		
U2	DM-37								ECG806						
U3	DM-51		GEIC-229	PTC787			RE 322-IC	SK3147	TVCM-39	ECG788					
U4	DM-48														
U5	DM-48														
U6	DM-44		GEIC-214	PTC729			RE 317-IC		TVCM-29	ECG743		WEP2021			
U7	DM-45														
U9	DM-33		GEVR-108						ECG964						

* Lead configuration may vary from original.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFG. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C8	1000 16V	9341267	W8R1000-16	TT10X1000B		TVA-1128
C9	1000 16V	9341267	W8R1000-16	TT10X1000B		TVA-1128
C19	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C35	10 10V	7936360		TDC106M025FL	QDT1-64	SD25-109
C36	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C37	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C45	1 10V	7936365		TDC105M035EL		SD35-19
C104	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C105	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C106	40 6V	7298555		TDC476M006EL	QDT1-97	SD6-479
C117	100 16V NP			TCN425A		TVAN-1207.1
	40 6V NP	9340269		TCN1540		TVAN-1413.1
C161	250 16V	9345021	W8R250-16	TT15X260A	QE1-495	TVA-1161
C164	250 16V	9345021	W8R250-16	TT15X260A	QE1-495	TVA-1161
C173	100 16V	9349025	PC100-16	VTT100F16	QV1-95	EV-1230
C213	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C304	15 6V	7936361		TDC156M020FL	QDT1-73	SD20-159
C401	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C402	250 35V	9341557	PC250-10	VTT220F10	QV1-115	EV-1140
C408	100 16V NP	9349947		TCN425A		TVAN-1207.1
C501	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C502	250 3V	9341557	PC250-10	VTT220F10	QV1-115	EV-1140
C508	100 16V NP	9349947		TCN425A		TVAN-1207.1
C601	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C604	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C605	3 10V	7296348		TDC335M015FL	QDT1-41	SD15-3R39
C610	.33	7936748		TDC334M050EL	QDT1-14	SD50-R339
C616	250	9349677	PC250-25	VTT220H16	QV1-117	EV-1240



- Circuitry not used in some versions
 - - - Circuitry used in some versions
 - ⊙ See parts list
 - ⊛ Nominal value
 - ⊕ Ground
 - ⊞ Chassis
 - ∇ Common tie point
 - Signal path
 - ⤴ Voltage path
- Measurements with switching as shown unless noted.

Item numbers in rectangles appear in the alignment/adjustment instructions.

Supply voltage maintained as shown at input.

Voltages measured with digital meter, no signal.

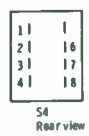
Controls adjusted for normal operation.

Arrow at control indicates direction of advance.

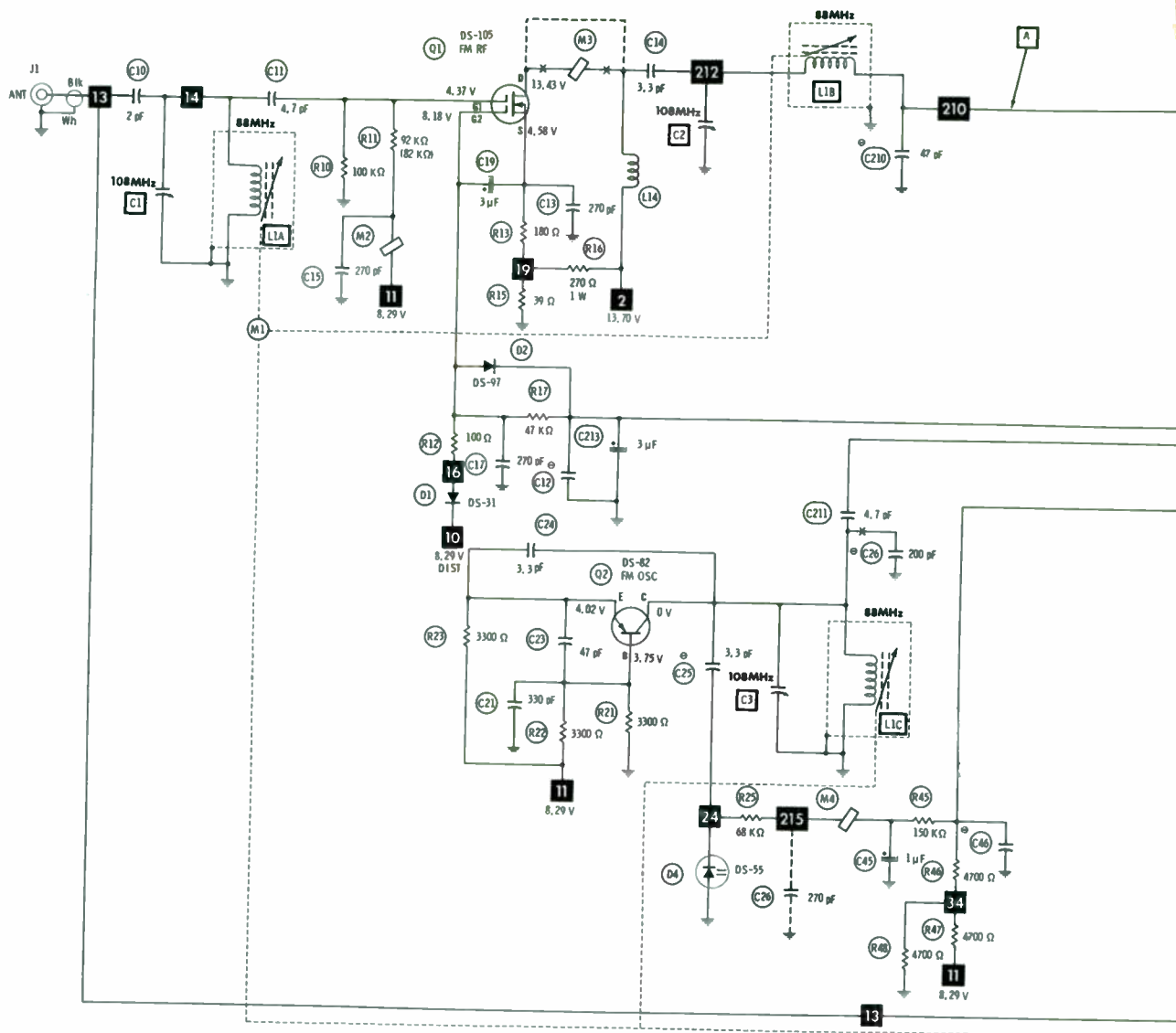
Terminal identification may not be found on unit.

Resistors are 1/2W or less, 10% unless noted.

Value in () used in some versions.



A PHOTOFAC STANDARD NOTATION SCHEMATIC WITH **CIRCUITRACE**



Terminal Guides



Q1
Bottom
view



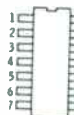
Q2, Q5, Q6,
Q8, Q12 thru
Q16, Q18
Bottom view



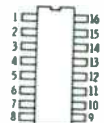
Q9
Bottom
view



Q21, Q22
Bottom
view



U1
Top view



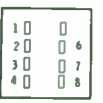
U2, U3, U6, U8
Top view



U4, U5
Front view



P2
Pin view



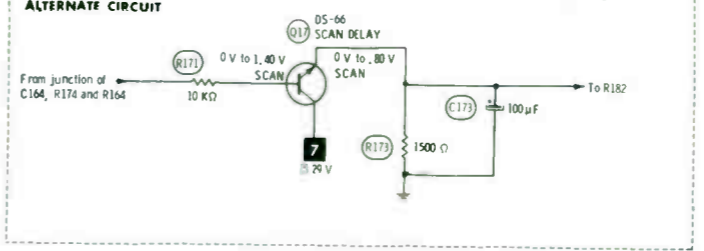
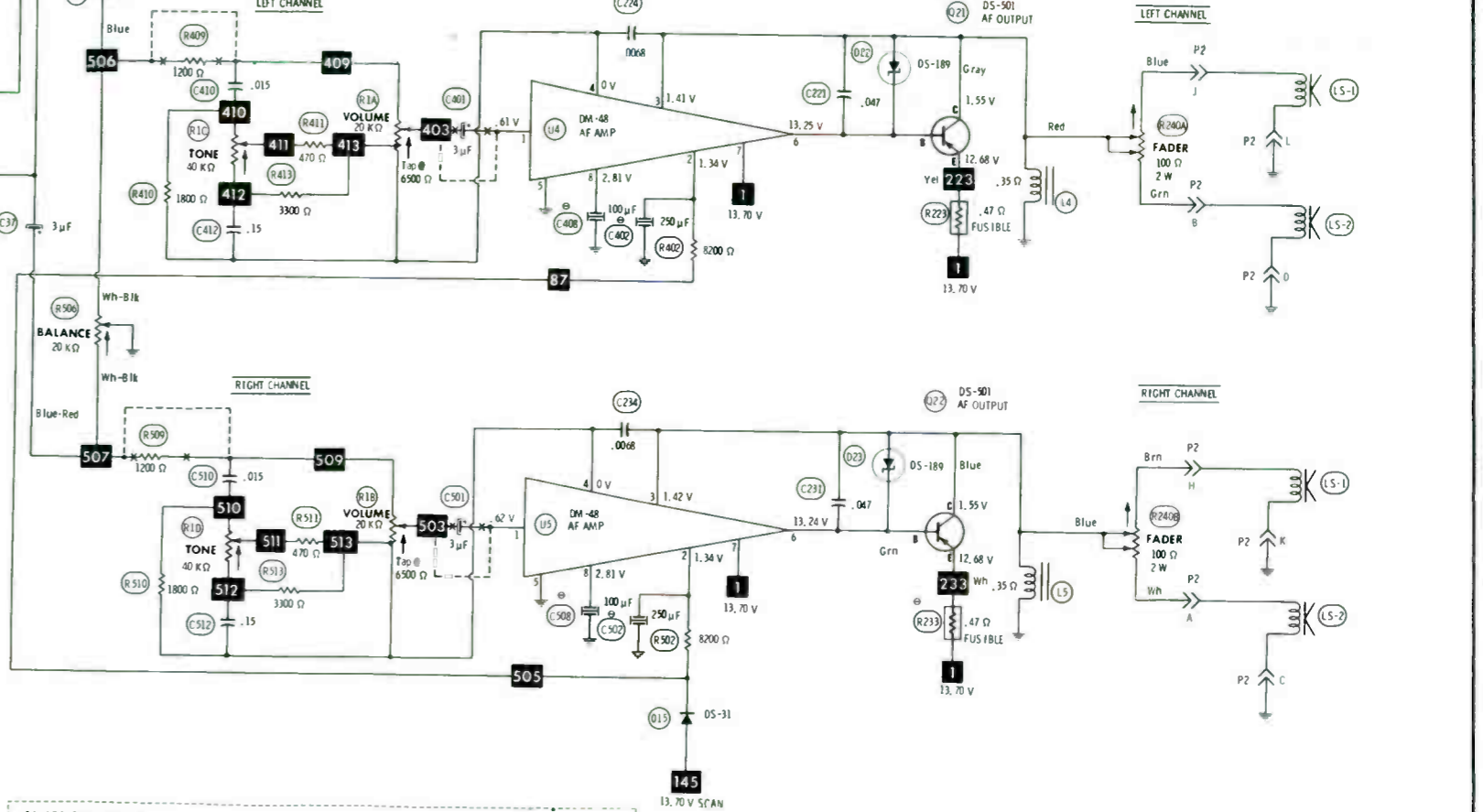
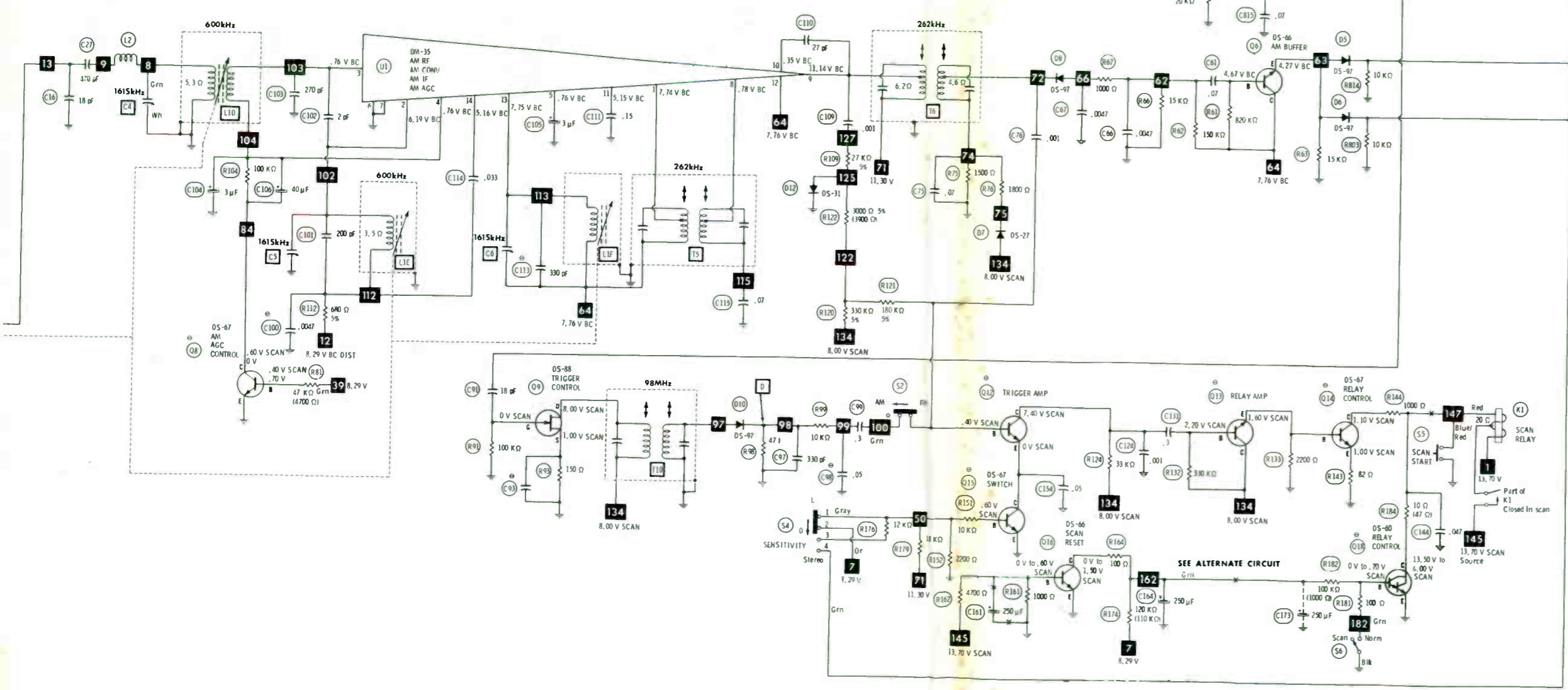
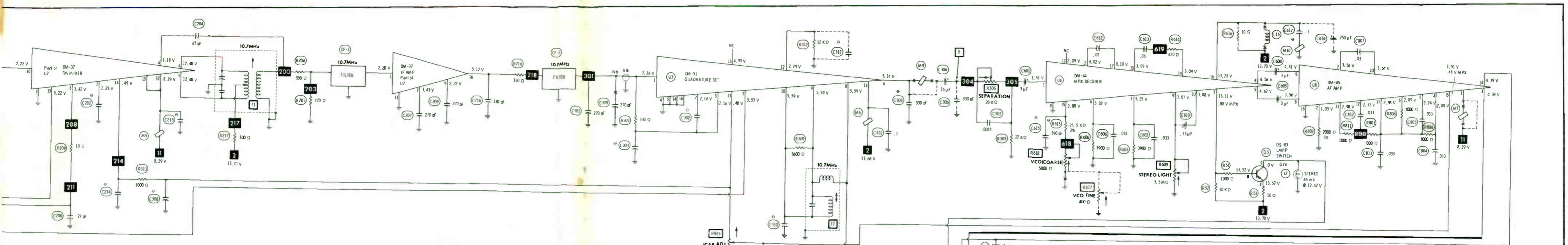
S4
Rear view

- *— Circuitry not used in same versions
- - - Circuitry used in same versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ⊞ Chassis
- ∇ Common tie point
- Signal path
- ⤴ Voltage path

A PHOTOFACIT STANDARD NOTATION SCHEMATIC
WITH **CIRCUITRACE**

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Measurements with switching as shown unless noted.
Item numbers in rectangles appear in the alignment/adjustment instructions.
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.



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.	
						Q-LINE	GENERAL LINE
C1		9340022					
C2		7312524					
C3		9348040					
C4		9344551					
C5		7936524					
C6		7311368					
C10	2 NPO		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C11	4.7 NPO		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C12		9343449					
C13	270 10%		DD-271	GP270	GP327		10TS-T27
C14	3.3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C15	270 10%		DD-271	GP270	GP327		10TS-T27
C16	18 NPO 5%				CN041B		10TCC-Q18
C17	270 10%		DD-271	GP270	GP327		10TS-T27
C18		7897655					
C20		9349130					
C21	330 10%		DD-331	GP330	GP333		10TS-T33
C22	270 10%		DTZ-270	NP02P2	GP327		10TCC-T27
C23	47 NPO 5%		DTZ-47	NP04P7	CN0447		10TCC-Q47
C24	3.3 NPO 100V		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C25	3.3 5%		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C26	200 5%		DTZ-200				10TCC-T20
C27	270 5%		DTZ-270				10TCC-T27
C28	470 10%		DD-471	GP470	GP347		10TS-T47
C46		9343449					
C48		7897655					
C49		7897655					
C61	.07 16V		UK25-6B3		MAG25168		HY-740
C64	270 10%		DD-271	GP270	GP327		10TS-T27
C66	.0047				M192P4729R8		192P4729R8
C67	.0047				M192P4729R8		192P4729R8
C75	.07 16V		UK25-6B3		MAG25168		HY-740
C76	.001 10%		DD-102		GP210		10TS-D10
C85	.12 10%			WMF05P12	M192P1249R8		192P1249R8
C91	18 NPO 5%				CN041B		10TCC-Q1B
C93		9343449					
C97	330 10%		DD-331	GP330	GP333		10TS-T33
C98	.05 16V		UK50-503		MAG5015		10TCC-T27
C99	.3				CN7327		10TCU-T27
C100	.0068 75V			WMF1068	EMF1A268		1PB-D68
C101	200 N750 10%		DTN-200				10TCU-T20
C102	2 NPO		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C103	270 10%		DD-271	GP270	GP327		10TS-T27
C109	.001 10%		DD-102		GP210		10TS-D10
C110	27 NPO 5%				CN0427		10TCC-Q27
C111	.15 16V		UK16-154		MAG16015		HY-665
C113	330 N180 5%						
C114	.033 16V		UK16-333		MAG16133		HY-630
C115	.07 16V		UK25-6B3		MAG25168		HY-740
C124	.001 100V 10%		DD-102		GP210		10TS-D10
C131	.3 12V				CN7327		10TCU-T27
C134	.05 16V		UK50-503		MAG5015		10TCC-T27
C135		9343449					
C144	.0047				M192P4729R8		192P4729R8
C154	.05 16V		UK50-503		MAG5015		10TCC-T27
C202		9343449					
C204	47 NPO 5%		DTZ-47	NP04P7	CN0447		10TCC-Q47
C207	270 10%		DD-271	GP270	GP327		10TS-T27
C208	27 NPO 5%				CN0427		10TCC-Q27
C209	270 10%		DD-271	GP270	GP327		10TS-T27
C210	47 NPO 100V		DTZ-47	NP04P7	CN0447		10TCC-Q47
C211	47 NPO		DTZ-47	NP04P7	CN0447		10TCC-Q47
C212		9343449					
C214		9343449					
C215		9343449					
C216	330 10%		DD-331	GP330	GP333		10TS-T33
C221	.047			DPMS2S47	GP6800		1PB-S47
C224	.0068 100V		DD-682	GP6800	GP268		5GA-D68
C231	.047			DPMS2S47	GP6800		1PB-S47
C234	.0068 100V		DD-682	GP6800	GP268		5GA-D68
C301	270 10%		DD-271	GP270	GP327		10TS-T27
C302		9343449					
C303		9343449					
C305	330 N2200 5%				*		10TCY-T33
C307	.0022 100V 10%				GP222		10TS-D22
C308		9343449					
C309	270 10%		DD-271	GP270	GP327		10TS-T27
C310		9343449					
C311	.1 75V				EMM101		1PB-P10
C313		7897655					
C410	.015 16V				MAG25115		HY-720
C412	.1 16V		UK16-104		MAG1601		HY-650
C510	.015 16V				MAG25115		HY-720
C512	.1 16V				MAG1601		HY-650
C603	.033 16V		UK16-104		MAG16133		HY-630
C606	.033 16V		UK16-333		MAG16133		HY-630
C612	.07 16V		UK16-6B3		MAG16133		HY-630
C613	.05 16V		UK50-503		MAG5015		HY-640
C615	390 N220 2%						
C617	.1 50V 10%	9341036	CK-104		MAG5001		10TS-T47
C804	.033 16V		DD-471	GP470	GP347		10TS-T47
C805	.033 16V		UK16-333		MAG16133		HY-630
C807	.05 16V		UK16-333		MAG16133		HY-630
C812	.033 16V		UK50-503		MAG5015		HY-640
C813	.033 16V		UK16-333		MAG16133		HY-630
C815	.07 16V		UK16-6B3		MAG16133		HY-630

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

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			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
R1A	Volume-Left	20K Tap @ 6500	7896607 (19)			
R1B	Volume-Right	20K Tap @ 6500				
R1C	Tone-Left	40K				
R1D	Tone-Right/Power Switch	40K				
R1A	Volume-Left	20K Tap @ 6500	7898183 (18)			
R1B	Volume-Right	20K Tap @ 6500				
R1C	Tone-Left	40K				
R1D	Tone-Right/Power Switch	40K				
R240A	Fader-Left	100 2W	7896606 (19)			
R240B	Fader-Right	100 2W				
R240A	Fader-Left	100 2W	9343369 (18)			
R240B	Fader-Right	100 2W				
R306	Separation	20K	9349022			U260R253B
R506	Balance	20K	7930069		MTC24L4	U201R253B
R609	Stereo Light	3.5M	7897616			
R617	VCO Fine	400	9349444			U260R501B
R618	VCO Coarse	5000	9349445			U260R502B
R815	IC Adj	20K	9349022			U260R253B

(18) Used in Model 86CFMW1.
(19) Used in Models 86CFMW1, 86DFMW1.

DELCO MODELS 86CFMW1, 86DFMW1, 86DFMW1

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1A	FM Antenna	(1)			(1) Part of Tuner M1.
L1B	FM RF	(1)			
L1C	FM Oscillator	(1)			
L1D	AM Antenna	(1)			
L1E	AM RF	(1)			
L1F	AM Converter	(1)			
L2	RF Choke	7255738		4610	
L14	RF Choke	7934553		4610	
L15	RF Choke				
T1	FM Convergence (10.7MHz)	9346544			
T2	FM Phase (10.7MHz)	9346543			
T5	AM IF (262kHz)	7930517			
T6	AM IF (262kHz)	7937449			
T10	Trigger, Scan (98MHz)	7312954			

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.	
L6	3A	.13	34mH	7302543			

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.

CHOKE (Audio Output)

ITEM No.	INDUCTANCE	REPLACEMENT DATA			NOTES
		MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L4	3.49mH	1222297			
L5	3.49mH	1222297			

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
	4" x 6" PM Front	7895010		Deville, Fleetwood, Limousine, El Dorado, Seville, Deville, Fleetwood, Limousine, El Dorado, Seville
	3 1/2" round PM Front	16001996		
	3 1/2" round PM Front	16002296		
	6" x 9" PM Rear	9348870		
	4" x 10" PM Rear	9349690		

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF-1	Ceramic Filter	1223695 (1)	
CF-2	Ceramic Filter	1223695 (1)	
I2	Lamp	7937608	Stereo Indicator (65mA @ 12.47V)
I3	Lamp	7937608	FM Indicator (65mA @ 13.70V)
J1	Jack	9340526	Antenna
K1	Relay/Solenoid	7295713	Engages gear drive in scan mode
K2	Solenoid	1221409	Drives tuner in scan mode
P2	Plug	1224150	Power, Speakers, Power Antenna
S1	Switch	7933756	Power (On Volume Control)
S2	Switch	7897087	AM-FM
S3	Switch	7268030	Energizes K2; Actuated by tuning mechanism at end of scan
S4	Switch	7933899	Scan Mode Selector; sensitivity/stereo only
S5	Switch	1223177	Scan start
S6	Switch	9349438	Scan/Normal Selector

(1) When replacing, CF1 & CF2 should also be replaced.

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

ITEM	PART No.	ITEM	PART No.
Escutcheon Assembly	7897296 (1)	Knob, Volume/Tone	1613624 (2)
Escutcheon Assembly	9344151 (2)	Pushbutton, Tuner	7930726
Knob, Tone/Fader	1613626 (1)	Pushbutton, Scan	7898016
Knob, Volume/Tone	1497099 (2)	Dial Pointer	9348059
Knob, Volume/Tone	1613623 (1)		

(1) Used in Models 86CFMW1 and 86DFMW1.
(2) Used in Model 86CFMW1.



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



MODEL D8UF-18B814AA

MODELS: D8EF-18B814AA (78 Bobcat, Pinto)
 D8TF-18B814AC (78 Ford, F-Truck Light)
 D8UF-18B814AA (78 Comet, Cougar, Ford Granada, LTD II,
 Maverick, Mercury, Monarch, Montego,
 Mustang, Thunderbird, Torino)

FORD/LINCOLN MODELS D8EF, D8UF-18B814AA, D8TF-18B814AC

ALIGNMENT INSTRUCTIONS

Check for specified source voltage.
 Connect low sides of generator and indicator to ground unless specified otherwise.
 Use only enough generator output to provide a usable indication.

Suggested Alignment Tools: GC ELECTRONICS:
 T1, T2 9296, 9297, 9300

PUSH-BUTTON ADJUSTMENT

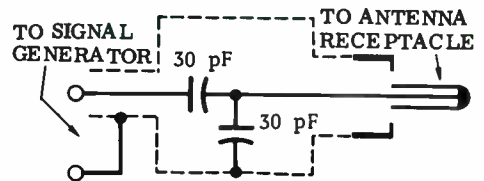
1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

AM ALIGNMENT—SELECTOR IN AM POSITION

Connect output meter across speaker voice coil.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST	REMARKS
High side thru .1uF	262kHz 400-Hz mod.	High freq end stop	T2 Top, Bot. T1 Top, Bot.	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz 400Hz Mod.	1615	VC3, VC2, VC1	"
Thru dummy antenna to antenna input.	1000kHz	1000	L1A, L1B, L1C	"

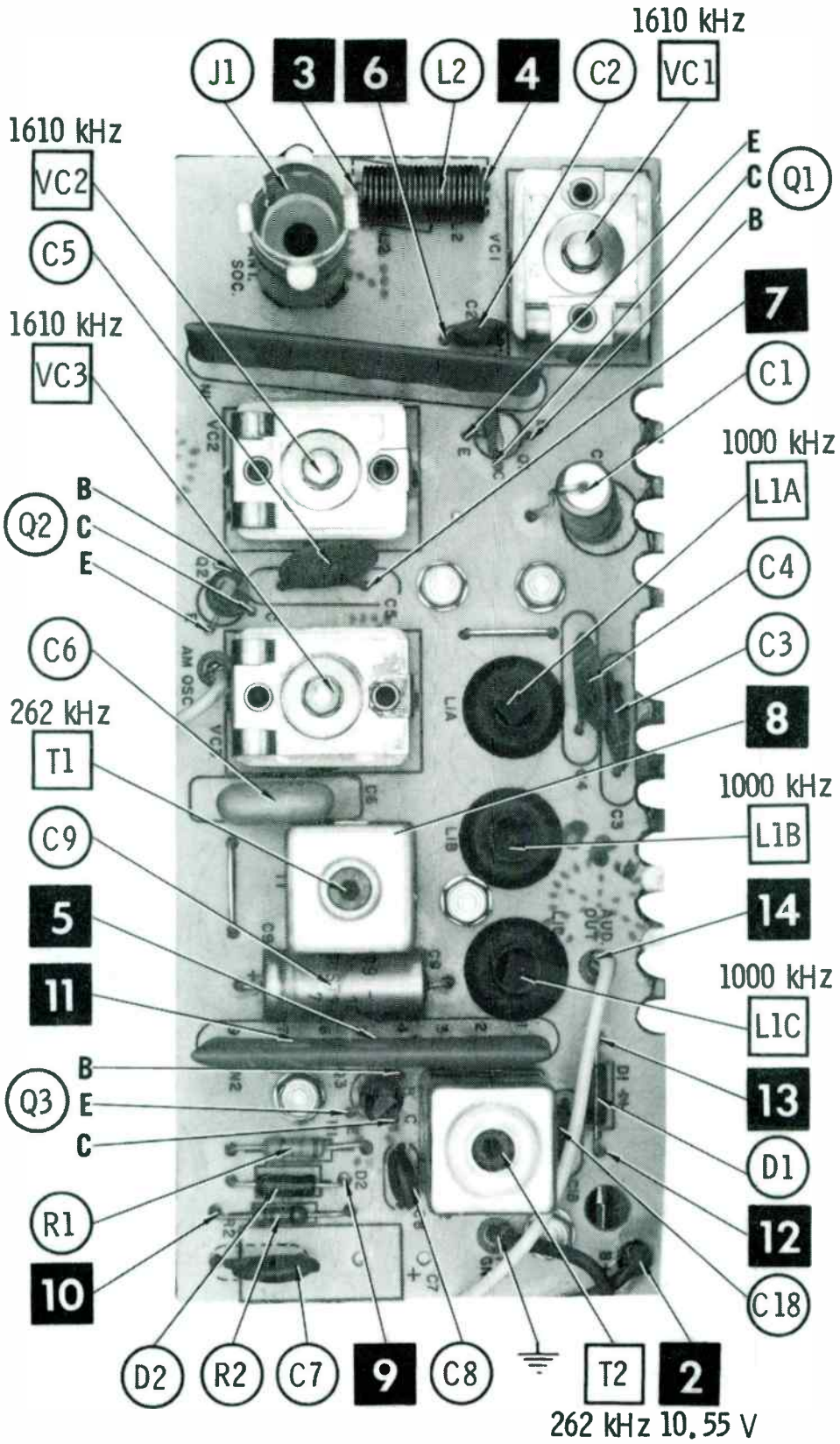
With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust VC1 for maximum output. Antenna adjustment is located on the rear of Radio above antenna input.



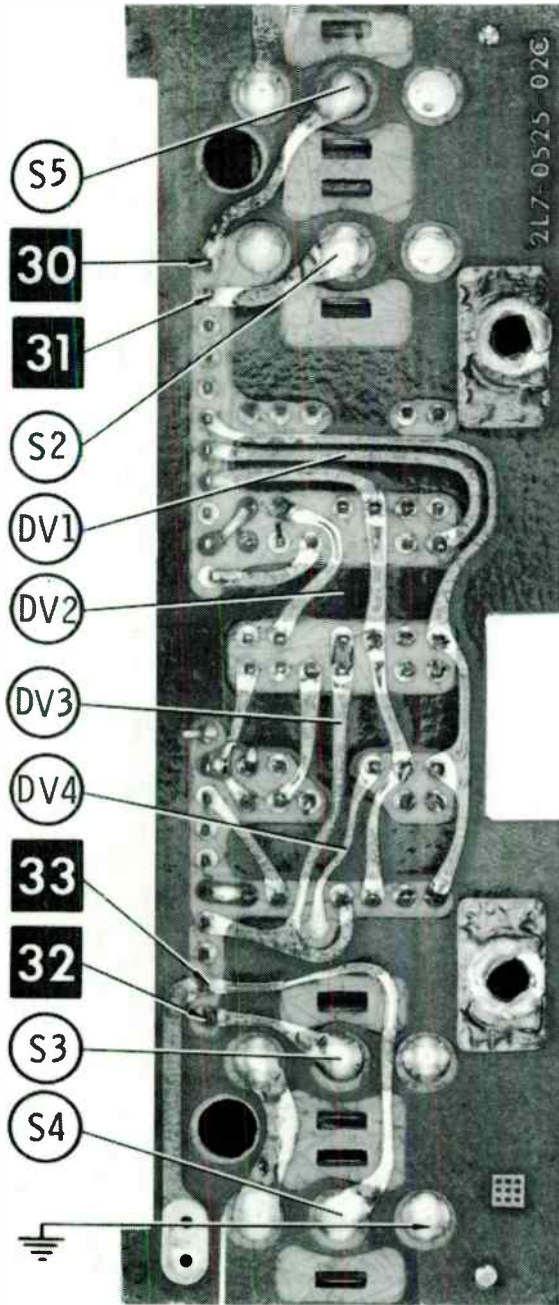
DUMMY ANTENNA

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

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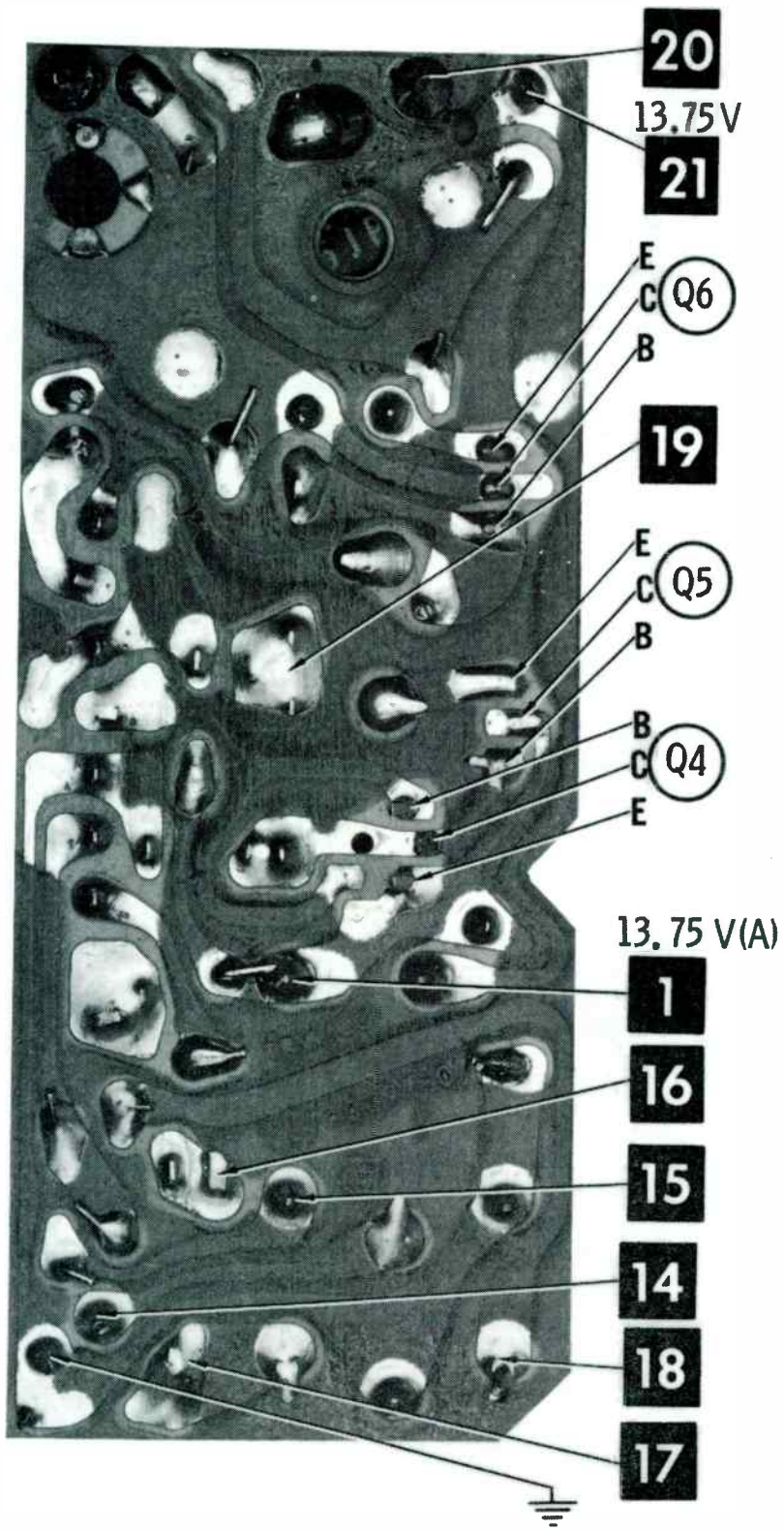


TUNER BOARD

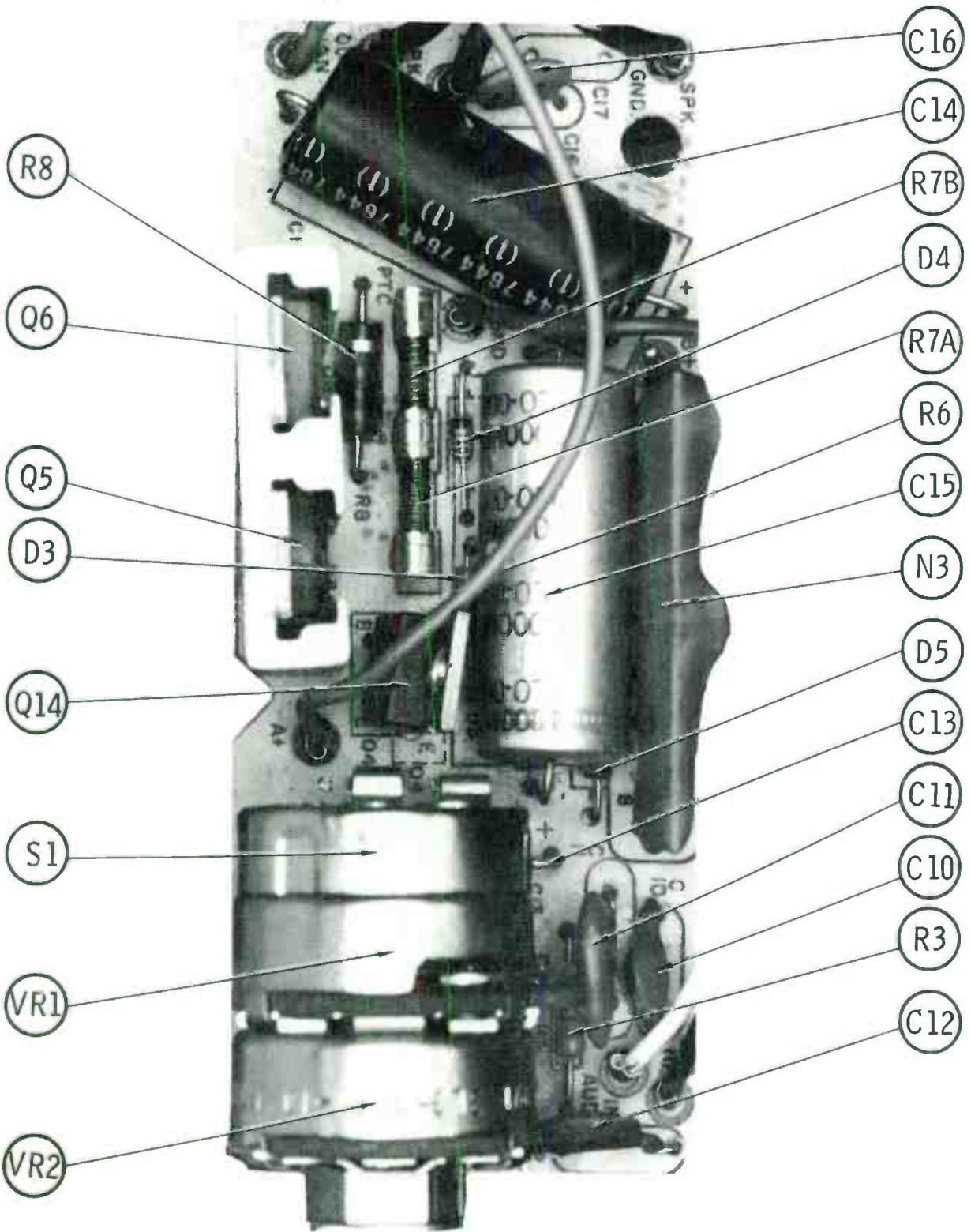


FORD/LINCOLN MODELS D8EF, D8UF-18814AA, D8TF-18814AC

DISPLAY BOARD

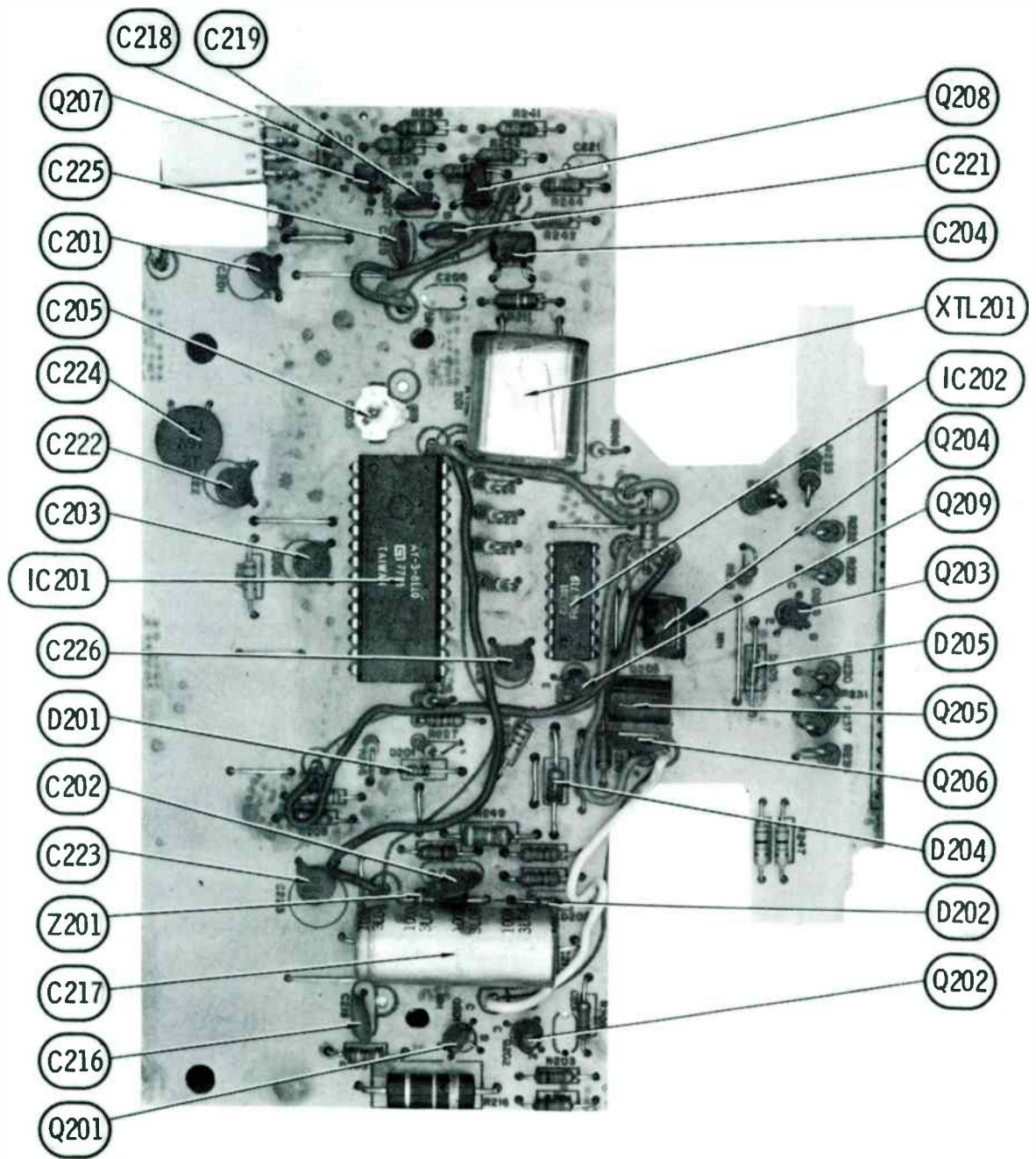


AF BOARD

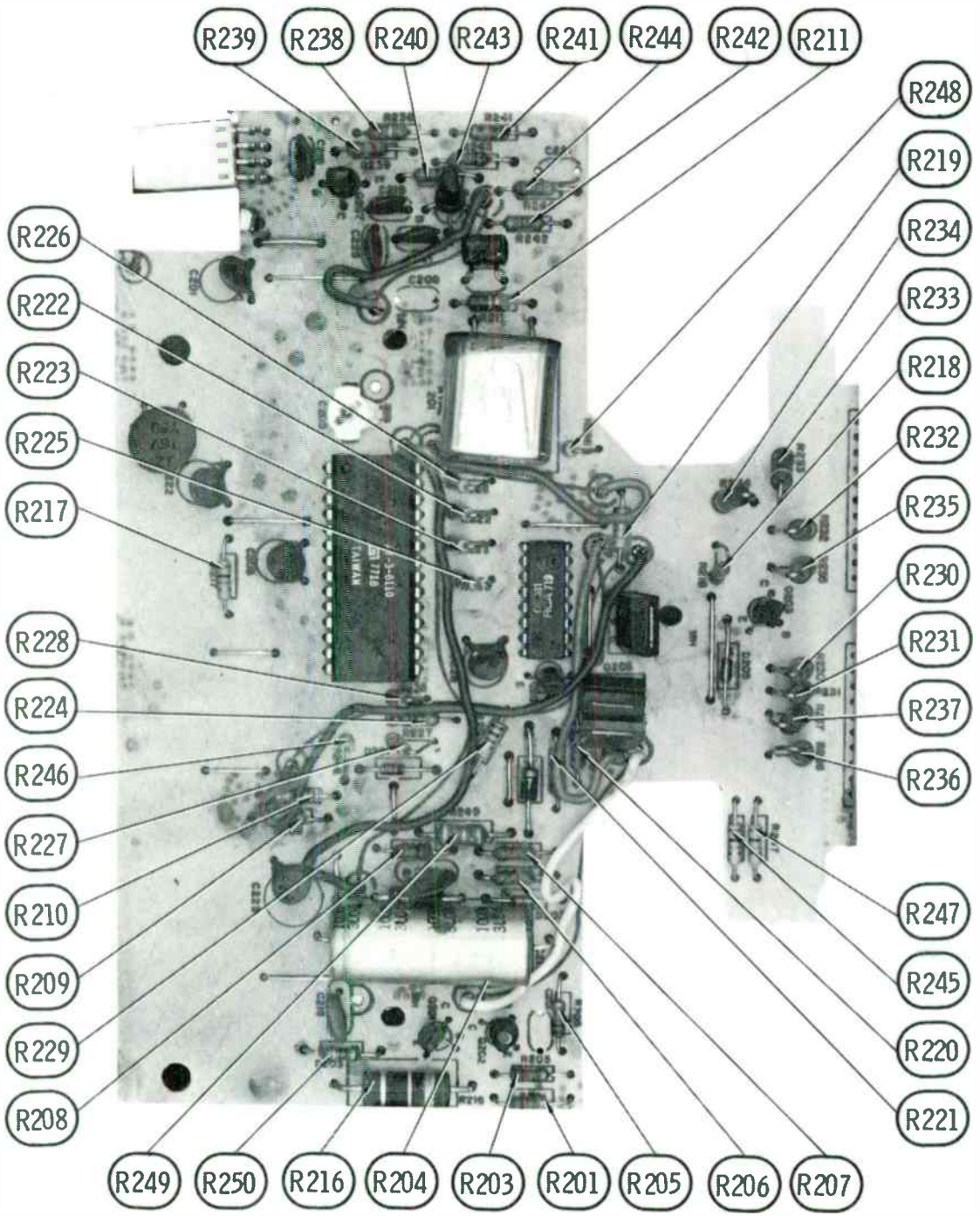


FORD/LINCOLN MODELS D8F, D8UF-188814AA, D8TF-188814AC

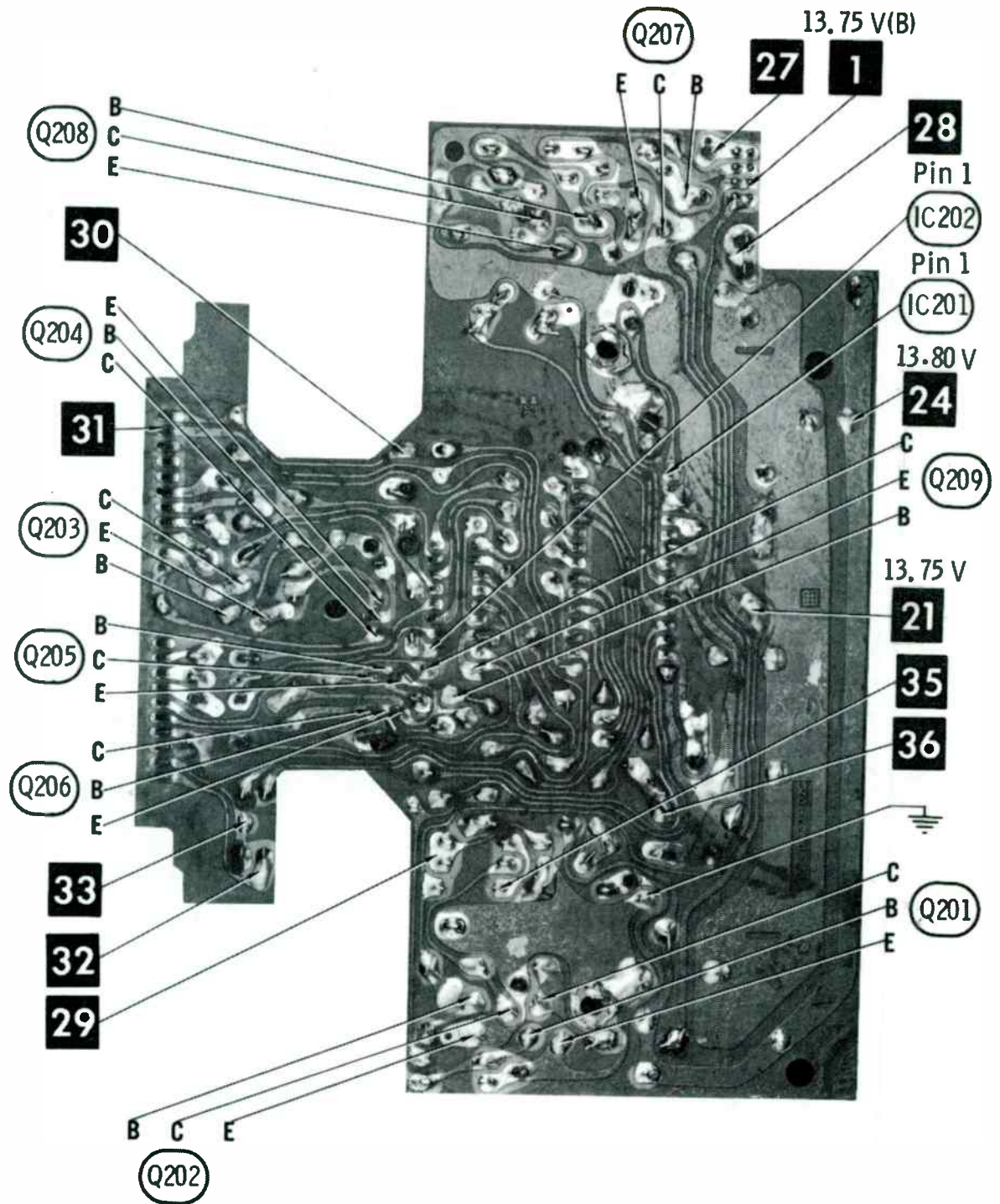
AF BOARD



CLOCK BOARD



CLOCK BOARD



CLOCK 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 13 Colors 8524 (Stranded) Available in 13 Colors
Shielded Hook-up Wire	Use BELDEN No. 8401 or 8421
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.)

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.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	ITT102		1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D2	ITT301	3L4-2003-1	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D3	ITT718	3L4-2003-1	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D4		3L4-2003-4	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D5	ITT718	3L4-3002-10	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	1N60	WEP1062	ZEN-430
D201		3L4-2003-4	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D202		3L4-3002-7	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	1N60	WEP1062	ZEN-430
D203		3L4-3002-7	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	1N60	WEP1062	ZEN-430
D204		3L4-3002-13	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	1N60	WEP1062	ZEN-430
D205		3L4-3002-7	GE-504A	PTC201	HEPRO052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02
IC201	AY-3-8110	3L4-3002-7	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	1N60	WEP1062	ZEN-430
IC202	CA3081	3L4-9024-1					SK3550					
N1		3L4-9025-1										
N2		3L5-1102-04										
N3		3L5-1002-4										
Q1	0701		GE-86	PTC136	HEPS0014	REN 108	SK3018	RT-102	ECG108		WEP56	ZEN-104
Q2	AR200	3L4-6007-1	GE-86	PTC136	HEPS0014	REN 108	SK3018	RT-102	ECG108		WEP56	ZEN-104
Q3	7720		GE-86	PTC136	HEPS0014	REN 108	SK3452	RT-102	ECG108		WEP56	ZEN-104
Q4	AR201	3L4-6007-2	GE-86	PTC136	HEPS0014	REN 108	SK3452	RT-102	ECG108		WEP56	ZEN-104
Q5	0703		GE-86	PTC136	HEPS0014	REN 108	SK3452	RT-102	ECG108		WEP56	ZEN-104
Q6	AR202	3L4-6007-3	GE-86	PTC136	HEPS0014	REN 108	SK3452	RT-102	ECG108		WEP56	ZEN-104
Q7	AR44	3L4-6011-9	GE-69	PTC111	HEPS5028	REN 153	SK3084	RT-153	ECG153		WEP746	ZEN-104
Q8		3L4-6011-12	GE-69	PTC111	HEPS5028	REN 153	SK3084	RT-153	ECG153		WEP746	ZEN-104
Q9		7L6-0531-1(9)	GE-241 (5)	PTC1101(9)	HEPS5013	REN 186(5)	SK3054	RT-154(5)	ECG196(5)		WEP751(5)	ZEN-104
Q10			GE-250(5)		HEPS0014	REN 187(5)	SK3083	RT-155(5)	ECG197(5)		WEP752(5)	ZEN-104
Q11	AR304	3L4-6010-4	GE-244	PTC141	HEPS5013	REN 129	SK3025	RT-115	ECG129		WEP60	ZEN-104
Q12	0703		GE-86	PTC136	HEPS0014	REN 108	SK3452	RT-102	ECG108		WEP56	ZEN-104
Q13	AR202	3L4-6007-3	GE-86	PTC136	HEPS0014	REN 108	SK3452	RT-102	ECG108		WEP56	ZEN-104
Q14	AR304	3L4-6010-4	GE-244	PTC141	HEPS5013	REN 129	SK3025	RT-115	ECG129		WEP60	ZEN-104
Q15	M726		GE-244	PTC141	HEPS5013	REN 129	SK3025	RT-115	ECG129		WEP60	ZEN-104
Q16		3L4-6024-1							ECG269			
Q17		3L4-6024-1							ECG269			
Q18		3L4-6024-1							ECG269			
Q19	M726								ECG269			
Q20		3L4-6024-1							ECG269			
Q21		3L4-6024-1							ECG269			
Q22	0703		GE-86	PTC136	HEPS0014	REN 108	SK3452	RT-102	ECG108		WEP56	ZEN-104
Q23	AR202	3L4-6007-3	GE-86	PTC136	HEPS0014	REN 108	SK3452	RT-102	ECG108		WEP56	ZEN-104
Q24	AR304	3L4-6010-4	GE-244	PTC141	HEPS5013	REN 129	SK3025	RT-115	ECG129		WEP60	ZEN-104
Q25	AR303	3L4-6010-3	GE-61	PTC101	HEPS0025*	REN 123A*	SK3122*	RT-172*	ECG123A*	25C619*	WEP736*	121-Z9000*
Q26	Z201	3L4-3506-2	GE5ZD-15	1N5352A	HEPZ2519		SK3396		ECG5130		WEP1625	

FORD/LINCOLN MODELS DBEF, DBUF-18B814AA, DBTF-18B814AC

* Lead configuration may vary from original.

- (5) Half of complementary pair.
- (9) Complementary pair.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C1	68 16V	3L0-0009-26			QV1-83(1)	EV-1227(1)
C9	150 16V	3L0-0009-45	NLW150-16	TT15X150A	QE1-459	TVA1160.3
C13	150 6V	3L0-0009-50	NLW150-6	TT6X150A		TE-1103
C14	1350 10V	3L0-0009-51		TT12X1500A		
C15	500 16V	3L0-0009-14(2)	PC500-16	VTT470K16	QV1-151	EV-1250
C217	1000 16V	3L0-0009-44	WBRT1000-16	TT15X1000B	QE1-591	TVA-1163
	1000 16V	3L0-0009-44	WBRT1000-16	TT15X1000B	QE1-591	TVA-1163

- (1) Radial replacement for axial device.
- (2) Model DBEF-18B814AA only.

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.	
						Q-LINE	GENERAL LINE
C2	47 10% 50V		DTZ-47	NP047	CN0447		10TCC-Q47
C3	150 N750 10% 500V		DTN-150	N150	CN7315		10TCU-T15
C4	180 N750 10% 500V		DTN-180				10TCU-T18
C5	150 N750 10% 500V		DTN-150	N150	CN7315		10TCU-T15
C6	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C7	.47 3V		UK12-474		MAG12047		HY-380
C8	330 10% 500V		DD-331	GP330	GP333		10TS-T33
C10	.14 3V				MAG12015		HY-365
C11	.1 10V		UK12-104		MAG1201		HY-360
C12	.47 3V		UK12-474		MAG12047		HY-380
C16	820 10% 500V		DD-821	GP820	GP382		10TS-T82
C17	820 10% 500V	(1)	DD-821	GP820	GP382		10TS-T82
C18	.02 16V		UK50-223		MAG5012		
C201	.015 25V				MAG25115		HY-720
C202	500 N5250 10% 150V	3L0-0006-23					
C203	.001 50V		DD-102		GP210	QW1-14	10TS-D10
C204	30 10V			CD15ED300J03	SX430		MWA-300
C205	2.5-20	3L1-0004-8					
C216	820 10%		DD-821	GP820	GP382		10TS-T82
C218	.015 25V				MAG25115		HY-720
C219	.015 25V				MAG25115		HY-720
C221	.015 25V				MAG25115		HY-720
C222	.015 25V				MAG25115		HY-720
C223	.015 25V				MAG25115		HY-720
C224	.1 16V		UK16-104		MAG1601		HY-650
C225	.001 50V		DD-102		GP210		10TS-D10
C226	.015 25V				MAG25115		HY-720
VC1	120	3L1-0005-1					
VC2	120	3L1-0005-1					
VC3	300	3L1-0005-1					

(1) Used in Model D8TF-18B814AC.

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
VR1	Volume	10K Tap 1300	3L3-0021-14			
VR2	Tone/Power Switch	100K				
	Volume	10K Tap 1300	3L3-0021-30 (6)			
	Tone/Power Switch	100K				
	Volume	10K Tap 1300	3L3-0021-13 (18)			
	Tone/Power Switch	100K				
	Volume	10K Tap 1300	3L3-0021-29 (6)			
	Tone/Power Switch	100K				
	Volume	10K Tap 1300	3L3-0021-22 (19)			
	Tone/Power Switch	100K				
	Volume	10K Tap 1300	3L3-0021-34 (6)			
	Tone/Power Switch	100K				

(6) Alternate part, may be used in some versions.

(18) Used in Model D8EF-18B814AA.

(19) Used in Model D8TF-18B814AC.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1A	Antenna Tuning (1000kHz)	3L2-0007-18 (1)			(1) Part of L1 (Tuner)
L1B	Osc Tuning (1000kHz)	3L2-0002-9 (1)			
L1C	RF Tuning (1000kHz)	3L2-0007-19 (1)			
L2	RF Choke	3L2-0034-4			
T1	IF (262kHz)	3L2-0014-4			
T2	IF (262kHz)	3L2-0014-5			

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 Sams COUNTER FACTS® for the most up-to-date replacement.

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.	
L3	300mA	.18	23mH	4L1-0138-4 (1)			(1) Includes A+ Cable.

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	20A, Quick Acting (1) 15A, Quick Acting (2) 15A, Quick Acting (3) 7.5A, Quick Acting (4)			AGW-20 AGC-15 AGC-7 1/2		303020		
F2	15A, Quick Acting			AGW-15 AGC-15		303015		

(1) Granada, Monarch

(2) Cougar, LTD, LTD II, Mercury, Montego, Thunderbird, Torino

(3) Mustang

(4) Bobcat, Comet, Maverick, Pinto

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
DV1	LED Display	3L4-3005-1	Tens, Hours
DV2	LED Display	3L4-3005-1	Digits, Hours
DV3	LED Display	3L4-3005-1	Tens, Minutes
DV4	LED Display	3L4-3005-1	Digits, Minutes
J1	Jack	2L8-0544-1	Antenna
L1	Tuner Assembly	7L6-0394-9	AM
N1	Network	3L5-1002-4	RF Converter
N2	Network	3L5-1002-5	Detector
N3	Network	3L5-0016-2	Audio
P1	Cable Assembly	4L1-0115-4 (1)(2)	A+ Lead (Radio)
	Cable Assembly	4L1-0115-5 (3)	A+ Lead (Radio)
P2	Cable Assembly	4L1-0116-3 (1)	Speaker
	Cable Assembly	4L1-0116-2 (2)	
	Cable Assembly	4L1-0116-4 (3)	
P201	Cable Assembly	4L1-0138-4	A+ Lead (Clock)
S1	Switch		Power (Part of Volume Control)
S2	Switch	2L8-0777-1 (4)	Time
	Switch	4L2-0026-1 (5)	Time
S3	Switch	2L8-0777-1 (4)	Frequency
	Switch	4L2-0026-1 (5)	Frequency
S4	Switch	2L8-0777-1 (4)	Minute Set
	Switch	4L2-0026-1 (5)	Minute Set
S5	Switch	2L8-0777-1 (4)	Hour Set
	Switch	4L2-0026-1 (5)	Hour Set
XLT201	Crystal	3L5-5011-1	2.304MHz
	Printed Circuit Board	7L6-0730-1 (1)	AM & Audio W/Components
	Printed Circuit Board	7L6-0731-1 (2)	AM & Audio W/Components
	Printed Circuit Board	7L6-0732-1 (3)	AM & Audio W/Components
	Printed Circuit Board	7L6-0733-1	Clock Logic
	Printed Circuit Board	7L6-0746-1	Display (Discrete Components, replaceable)
	Printed Circuit Board	7L6-0740	Display (non-replaceable)

(1) Model 08UF-18B814AA

(2) Model 08EF-18B814AA

(3) Model 08TF-18B814AC

(4) Type 1, rectangular pad

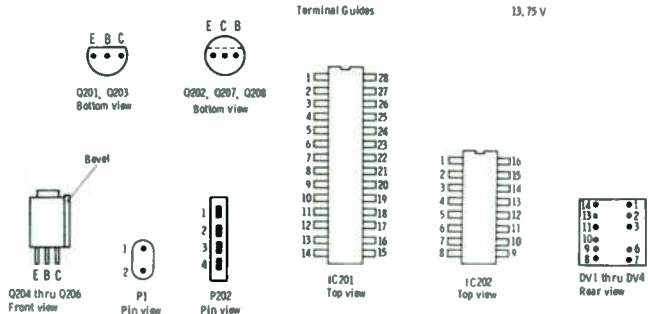
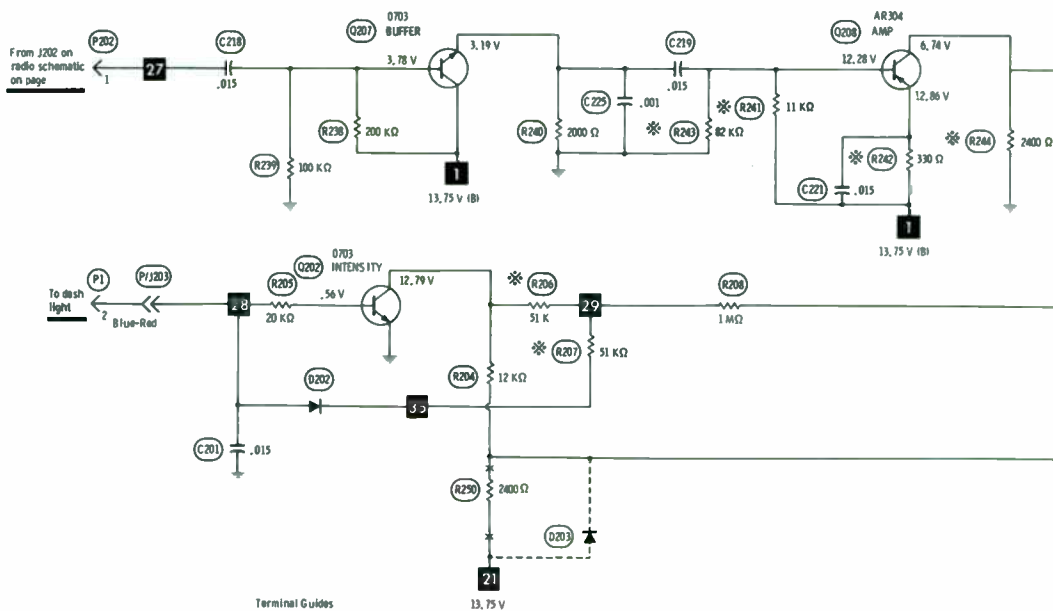
(5) Type 2, square pad

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

ITEM	PART No.	ITEM	PART No.
Bezel Assembly	7L6-0723-1	Button, Push	2L7-0145-2

FORD/LINCOLN MODELS DBEF, D8UF-18B814AA, D8TF-18B814AC

All voltages taken in
Radio Mode @ 1000 Hz



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

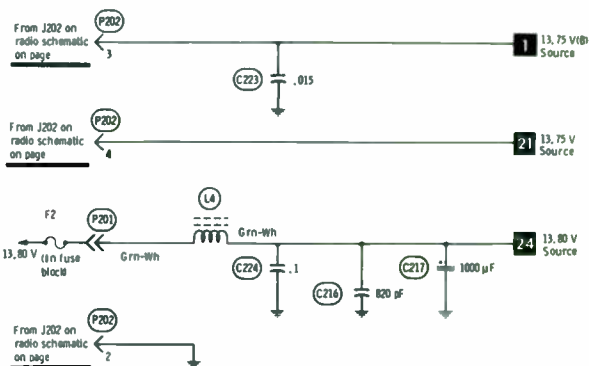
Measurements with switching as shown unless noted:
▲ AM

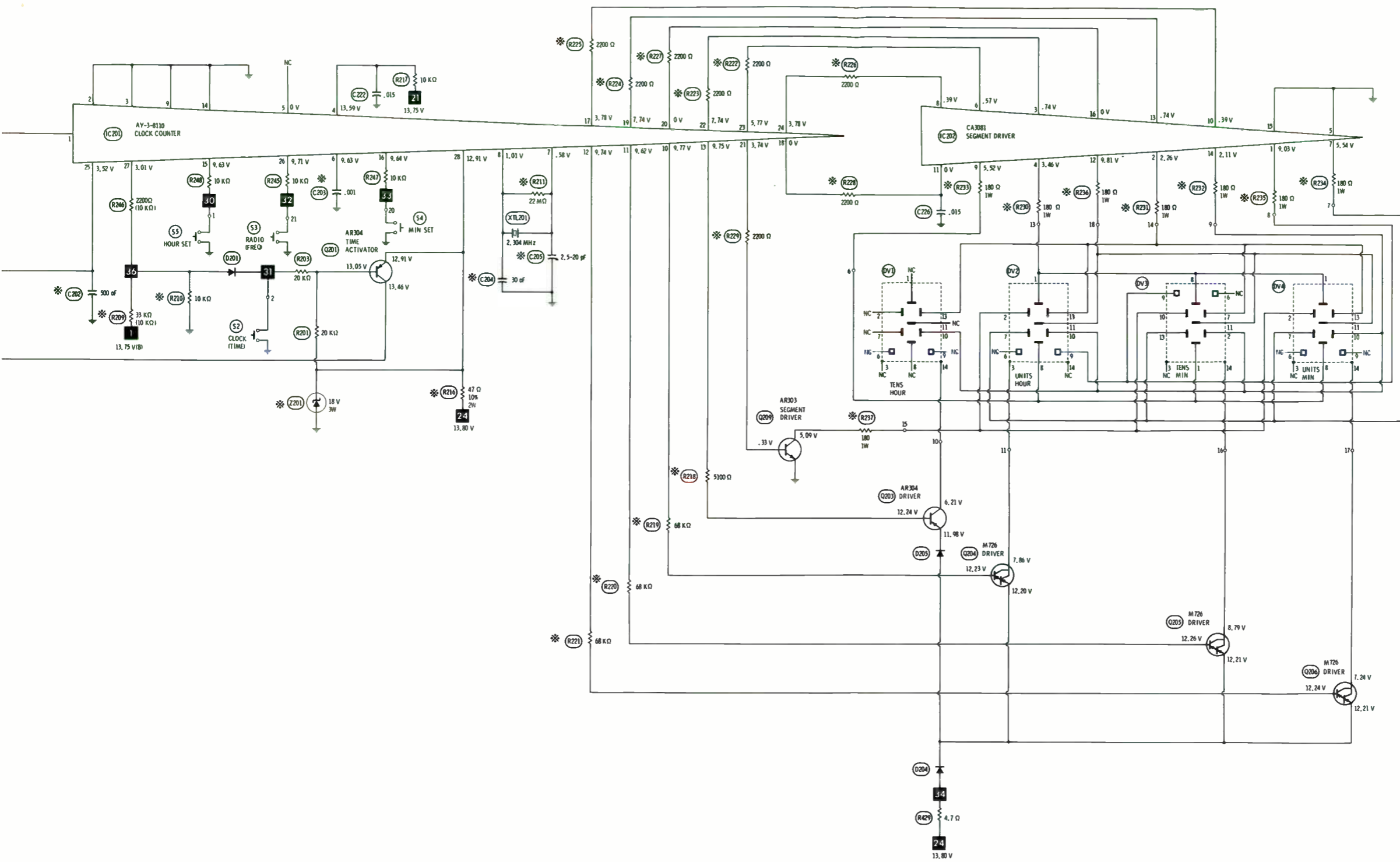
Supply voltage maintained as shown at input.
Voltages measured with digital meter, no signal.
Controls adjusted for normal operation.
Arrow at control indicates direction of advance.
Terminal identification may not be found on unit.
Resistors are 1/2 W or less, 5% unless noted.
Value in () used in some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

A PHOTOFACIT STANDARD NOTATION SCHEMATIC

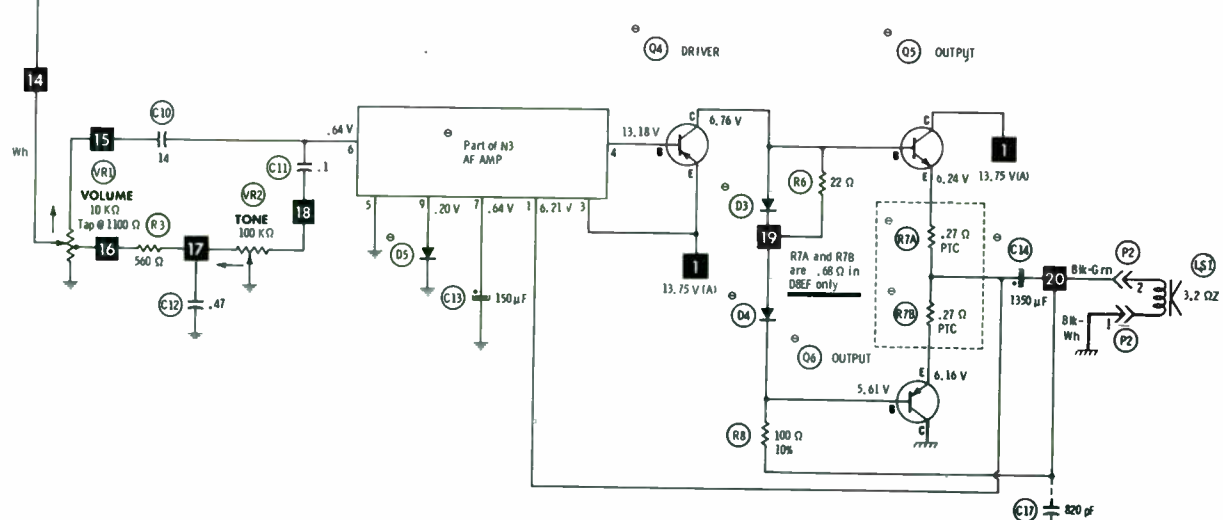
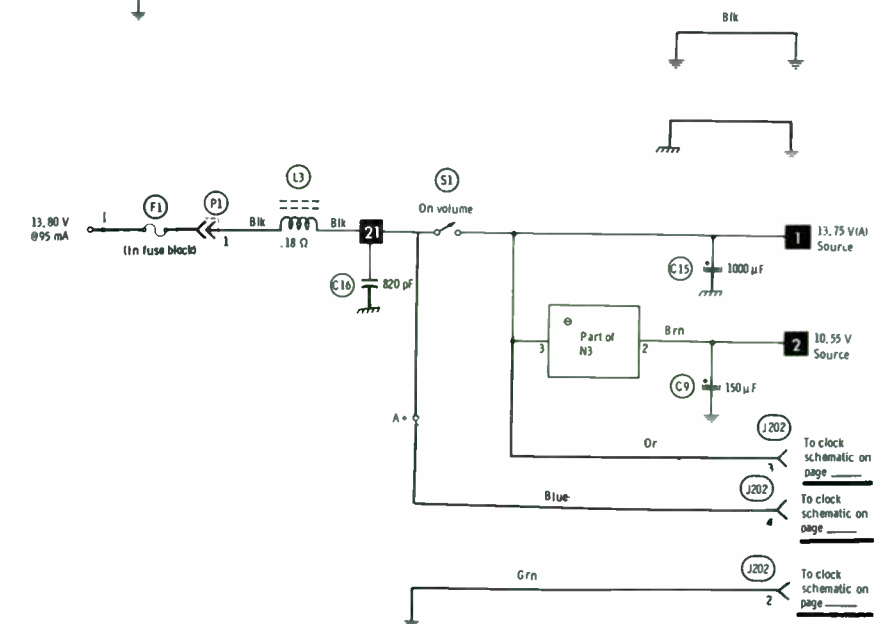
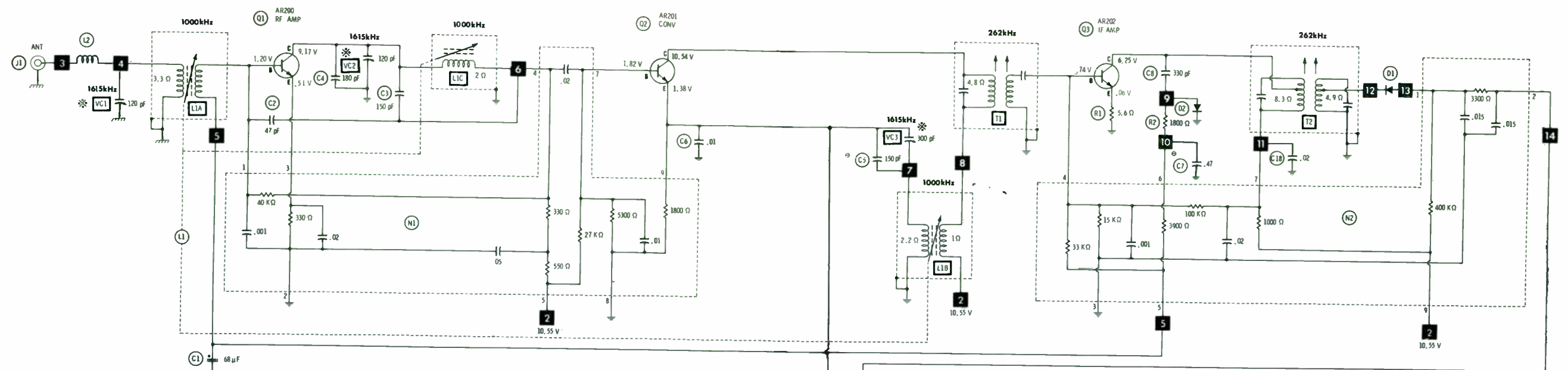
WITH **CIRCUITRACE**

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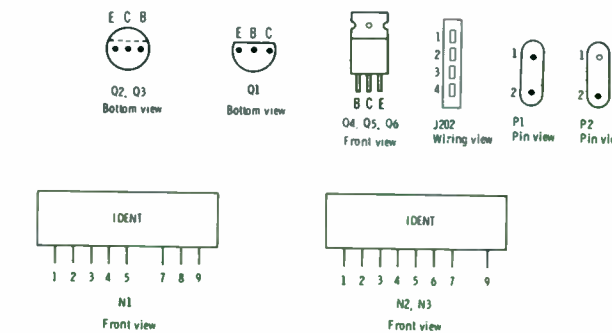




FORD/LINCOLN MODELS D8EF, D8UF-18B814AA, D8TF-18B814AC



- *— 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 PHOTOFAC STANDARD NOTATION SCHEMATIC WITH **CIRCUITRACE**
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PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



MODEL CR-1719FUH (A208D-463-64749)

HONDA MODEL CR-1719FUH

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



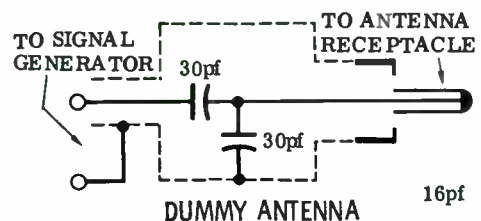
PUSH-BUTTON ADJUSTMENT

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

Connect low sides of generator and indicator to ground unless specified otherwise.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to Ant Input low side to ground.	455kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	IFT102, IFT101	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C114, C108, C102	"
Thru dummy antenna to antenna input.	600Hz	Tune to signal	Output meter across voice coil.	L104	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 C102 for maximum output. Antenna adjustment C102 is located right side center of dial glass.



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

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7AN971R

ALIGNMENT INSTRUCTIONS (Continued)

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

High side of generator thru .001uF to Ant Input.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to cathode of D151.	(1)IFT151, IFT51	Adjust for maximum.
"	"	DC probe of VTVM to base of TR152.	IFT152	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 Ant Input. 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 cathode of D151.	(1)IFT151 IFT51	Disconnect stabilizing capacitor C160. Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect C160.
"	"	Vert input of scope to base of TR152.	IFT152	Adjust IFT151 for maximum amplitude and straightness of line similar to Fig. 2. Readjust IFT152.

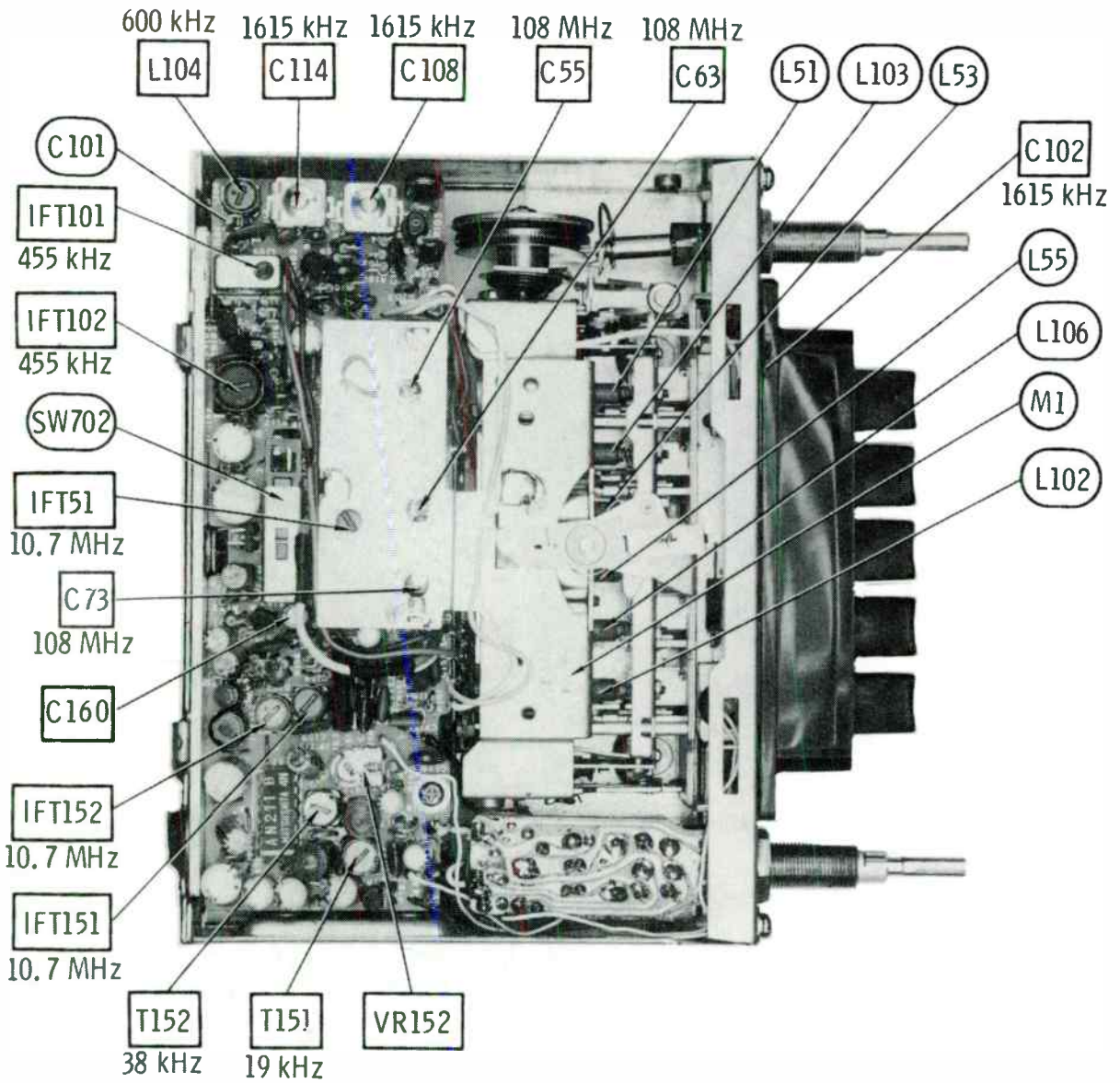
(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

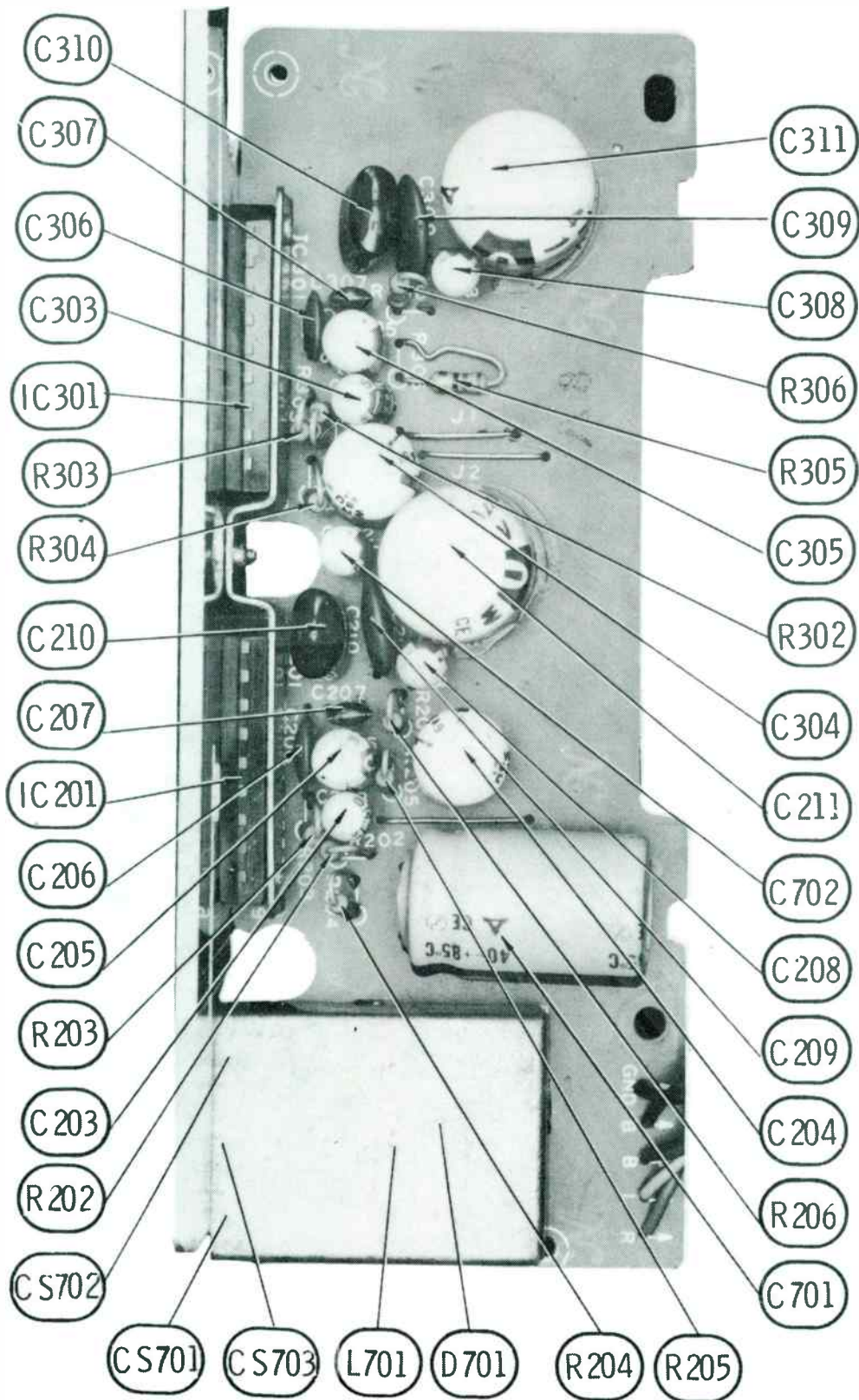
Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Unmodulated	High Freq End Stop	DC probe of VTVM to cathode of D151.	C73,C63, C55	Adjust for maximum.

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

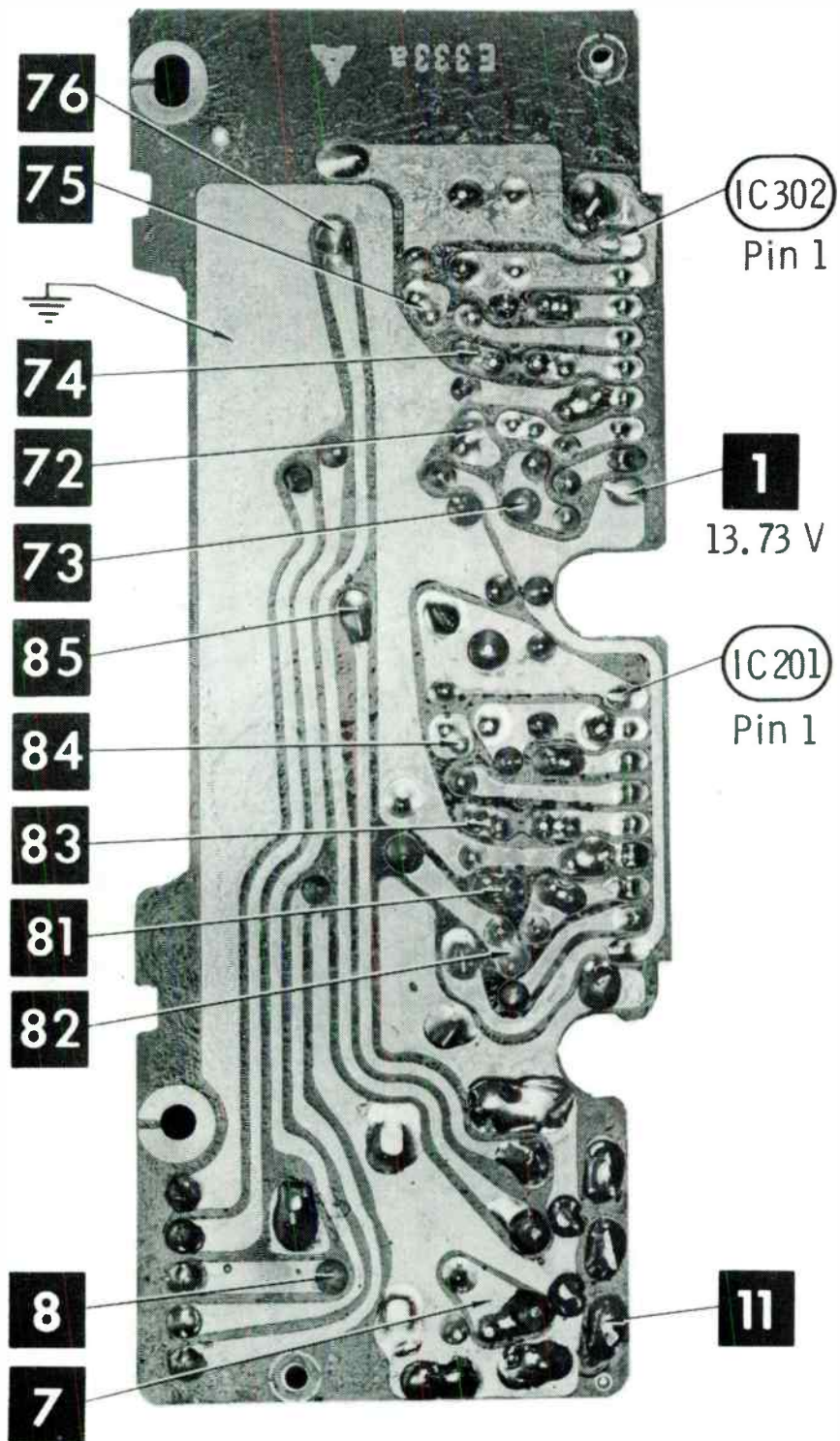
High side of generator thru 47K to base of TR152.				
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS	
Modulated Left Channel	Vert input of scope to junction C186 & R186.	T151,T152, VR152	Adjust for MINIMUM. This step should require only slight adjustment.	
Modulated Right Channel	Vert input of scope to junction of C187 & R187.		Check for MINIMUM. If necessary, make compromise adjustment of T151,T152,VR152	



CHASSIS-TOP VIEW

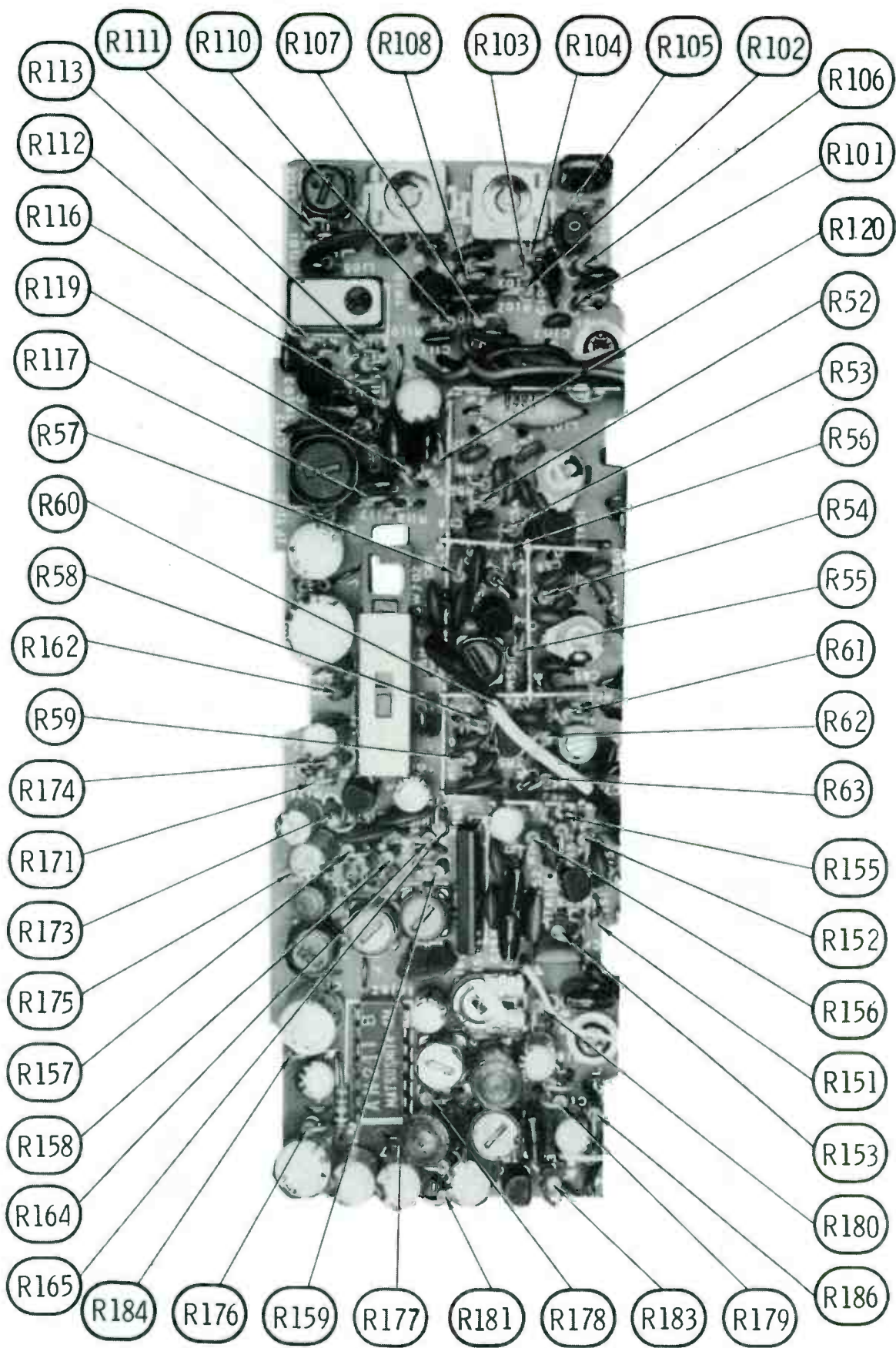


AUDIO BOARD

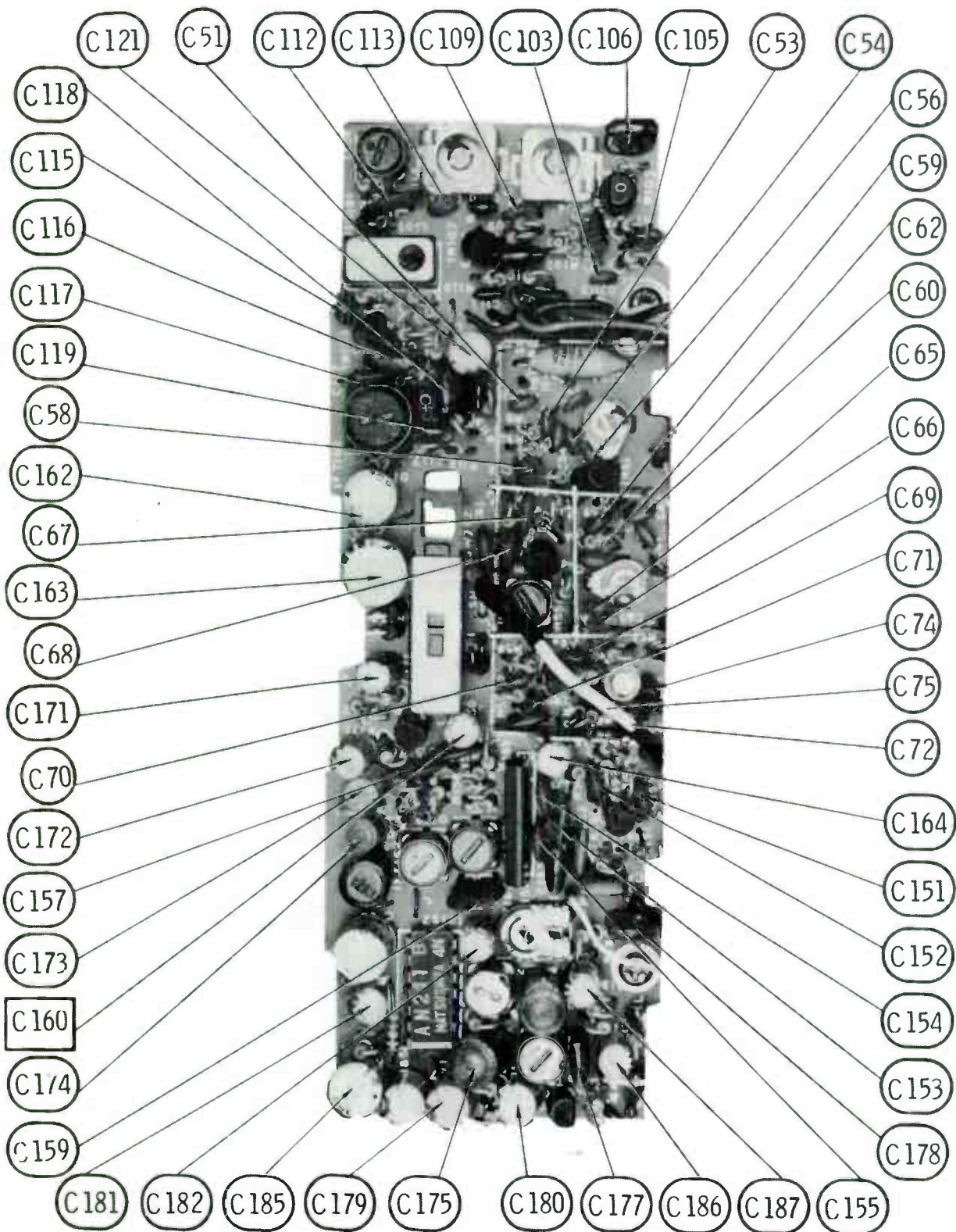


HONDA MODEL CR-17 19FUH

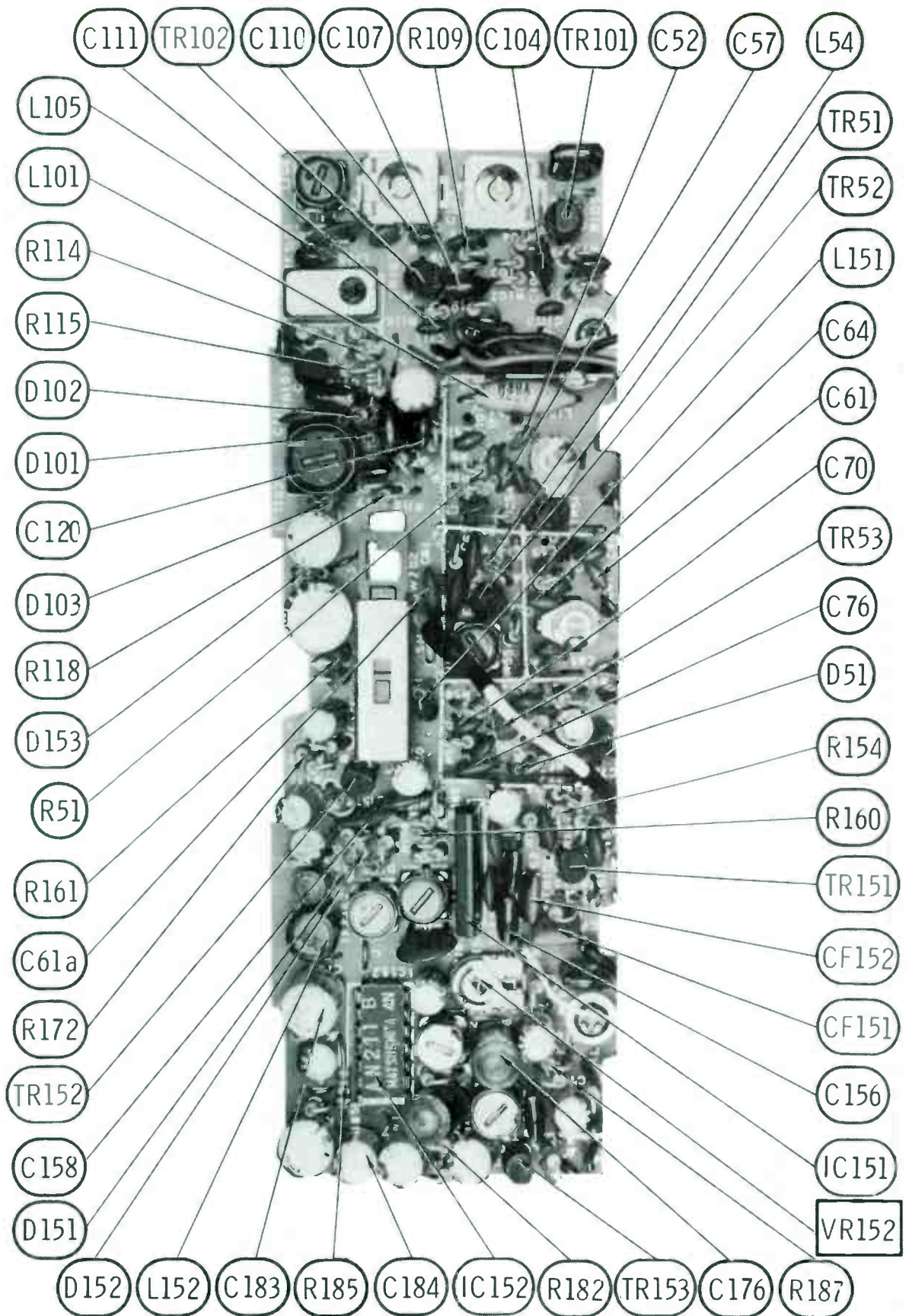
AUDIO BOARD



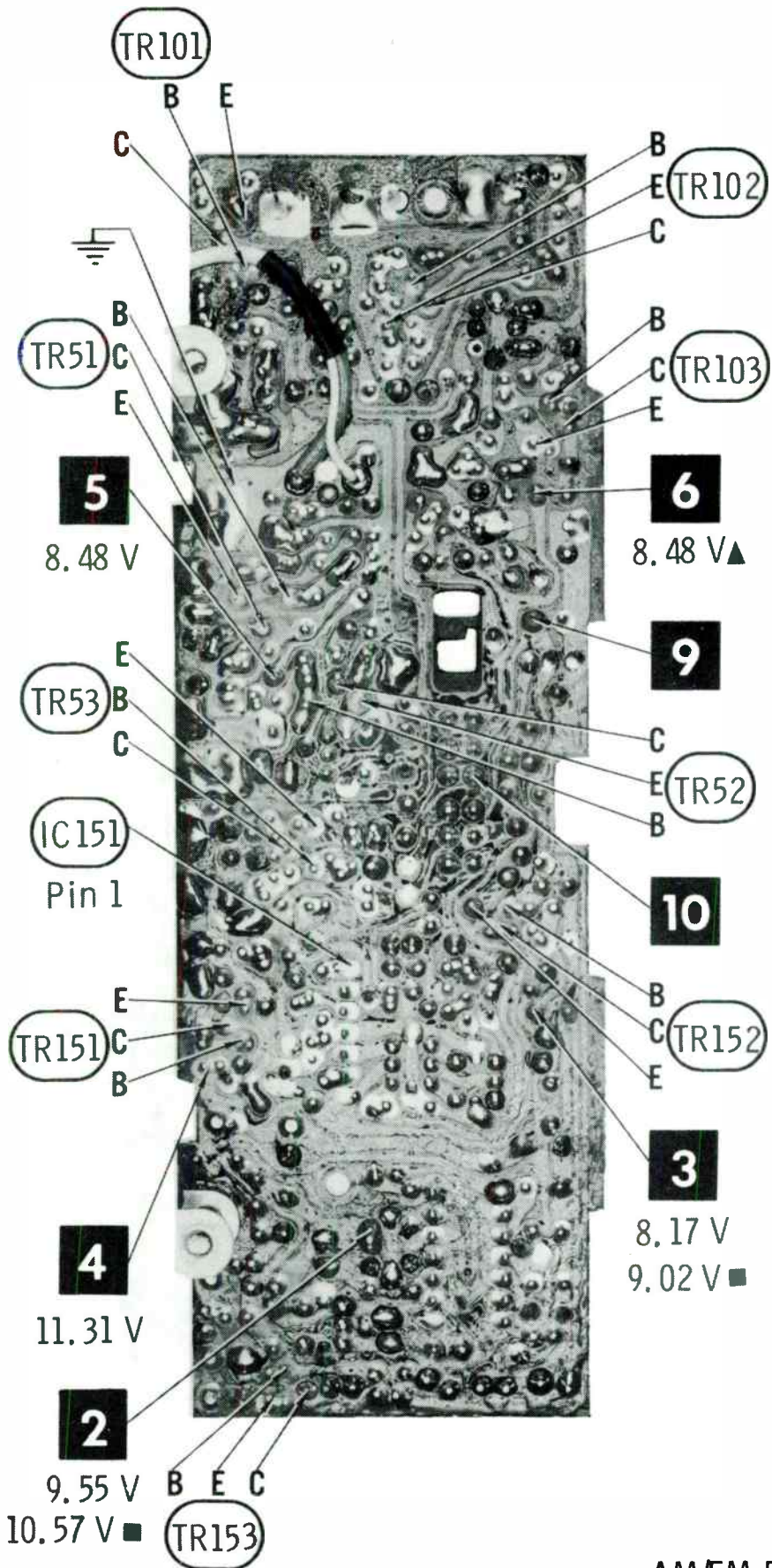
AM/FM BOARD



AM/FM BOARD



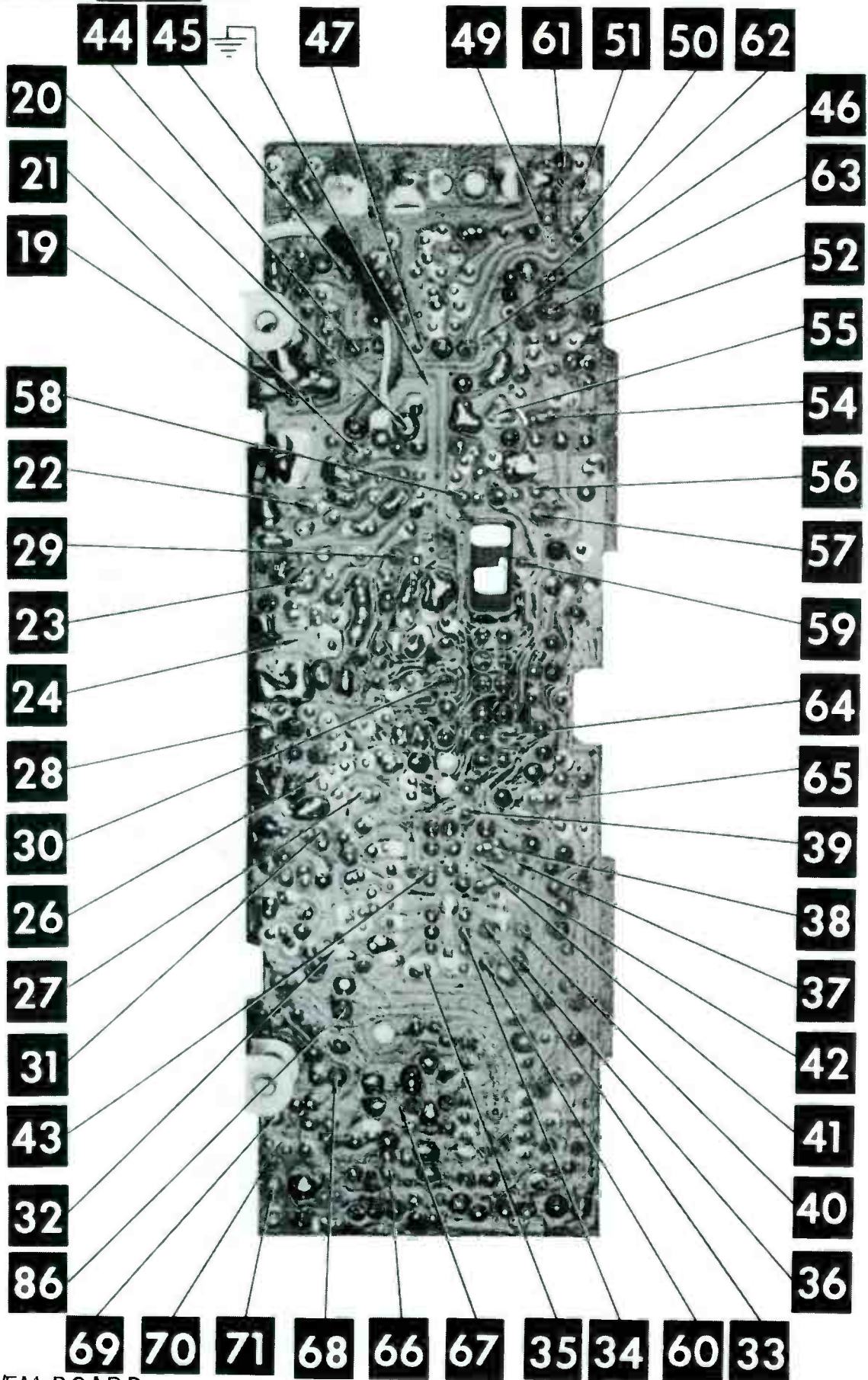
AM/FM BOARD



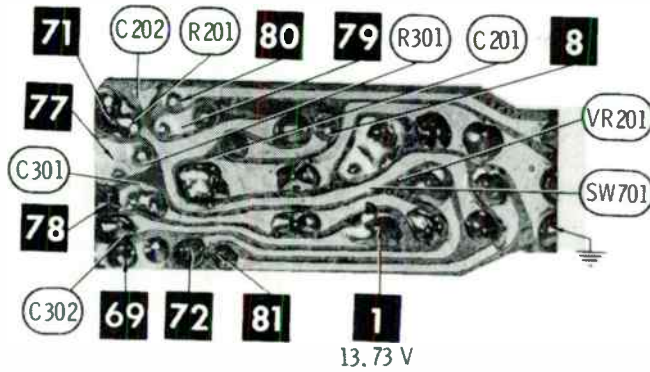
HONDA MODEL CR-1719FUH

■ MPX
▲ AM

AM/FM BOARD



AM/FM BOARD



CONTROL 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 13 Colors 8524 (Stranded) Available in 13 Colors
Shielded Hook-up Wire	Use BELDEN No. 8401 or 8421
Rear Seat Speaker Extension Cable	Use BELDEN No. 3782 (Stranded; Coded Parallel Leads
Bonding Strap	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)

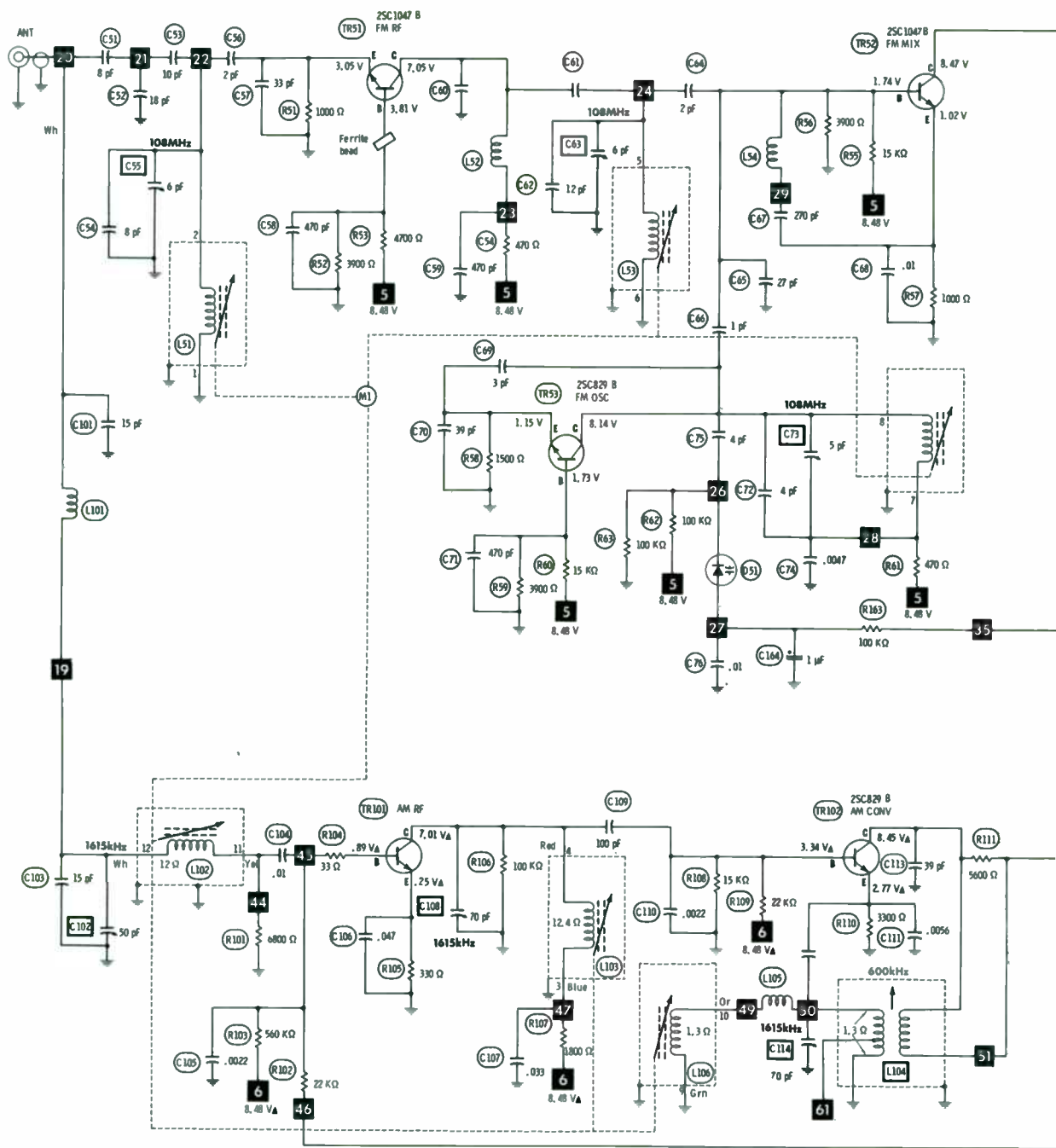
SEMICONDUCTORS (Select replacement transistor for best results)

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.
D51		YEA0029	GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	
D101		YAAD009	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D102		YAAD009	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D103		YAAD009	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D151		YEAD032	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D152		YEAD032	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D153		YEAD024	GEZD-8.2		PTC207	HEPR9134	RE 112	SK3087	RT-257	ECG5072
D701		YEAD030	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
IC151	UPC577H	YEAMUPC577H					RE 341-M			ECG1082
IC152	AN211		GEIC-48		PTC757					ECG1056
IC201	AN214Q		GEIC-49		PTC757		RE 338-IC			ECG1058
IC301	AN214Q		GEIC-49		PTC757		RE 338-IC			ECG1058
TR51	2SC10478		GE-60	(IR)2SC8298	PTC132	HEPS0016	RE 28	SK3018	RT-107	ECG161
TR52	2SC10478		GE-60	(IR)2SC8298	PTC132	HEPS0016	RE 28	SK3018	RT-107	ECG161
TR53	2SC8298		GE-20	(IR)2SC8298	PTC121	HEPS0015	RE 9	SK3122	RT-308	ECG229
TR101	2SC20768C		GE-20	(IR)2SC8298	PTC121	HEPS0015	RE 13	SK3122	RT-308	CG123A
TR102	2SC8298		GE-20	(IR)2SC8298	PTC121	HEPS0015	RE 9	SK3122	RT-308	ECG229
TR103	2SC8298		GE-20	(IR)2SC8298	PTC121	HEPS0015	RE 9	SK3122	RT-308	ECG229
TR151	2SC8298		GE-20	(IR)2SC8298	PTC121	HEPS0015	RE 9	SK3122	RT-308	ECG229
TR152	2SC828T		GE-20	(IR)2SC8298	PTC121	HEPS0015	RE 9	SK3122	RT-308	ECG229
TR153	2SA179Q		GE-21	TR-28	PTC103	HEPS0012	RE 26	SK3114	RT-305	ECG159

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C121	33 6.3V	ECEA6V33L	PC30-25	VTT33A10	EV-1125
C160	4.7 25V	ECEA25V4R7L	PC5-50	VTT4R7A50	EV-1319
C162	100 10V	ECEA10V100L	PC100-10	VTT100E10	EV-1130
C163	100 16V	ECEA16V100L	PC100-16	VTT100F16	EV-1230
C164	1 50V	ECEA50V1L	PC1-50	VTT1863	EV-1615
C171	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C172	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C173	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C179	33 10V	ECEA10V33L	PC30-25	VTT33A10	EV-1125
C130	33 6.3V	ECEA6V33L	PC30-25	VTT33A10	EV-1125
C181	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C182	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C183	100 6.3V	ECEA6V100L	PC100-10	VTT10A25	EV-1222
C184	33 6.3V	ECEA6V33L	PC30-25	VTT33A10	EV-1125
C185	100 10V	ECEA10V100L	PC100-10	VTT100E10	EV-1130
C186	1 50V	ECEA50V1L	PC1-50	VTT1863	EV-1615
C187	1 50V	ECEA50V1L	PC1-50	VTT1863	EV-1615
C203	1 50V	ECEA50V1L	PC1-50	VTT1863	EV-1615
C204	100 16V	ECEA16V100L	PC100-16	VTT100F16	EV-1230
C205	33 10V	ECEA10V33L	PC30-25	VTT33A10	EV-1125
C208	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C211	470 16V	ECEA16V470M	PC500-16	VTT470J16	EV-1250
C303	1 50V	ECEA50V1L	PC1-50	VTT1863	EV-1615
C304	100 16V	ECEA16V100L	PC100-16	VTT100F16	EV-1230
C305	33 10V	ECEA10V33L	PC30-25	VTT33A10	EV-1125
C308	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C311	470 16V	ECEA16V470M	PC500-16	VTT470J16	EV-1250
C701	1000 16V	ECEA16V1000L	PC1000-16	VTT1000L16	EV-1260
C702	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222

HONDA MODEL CR-1719FUH

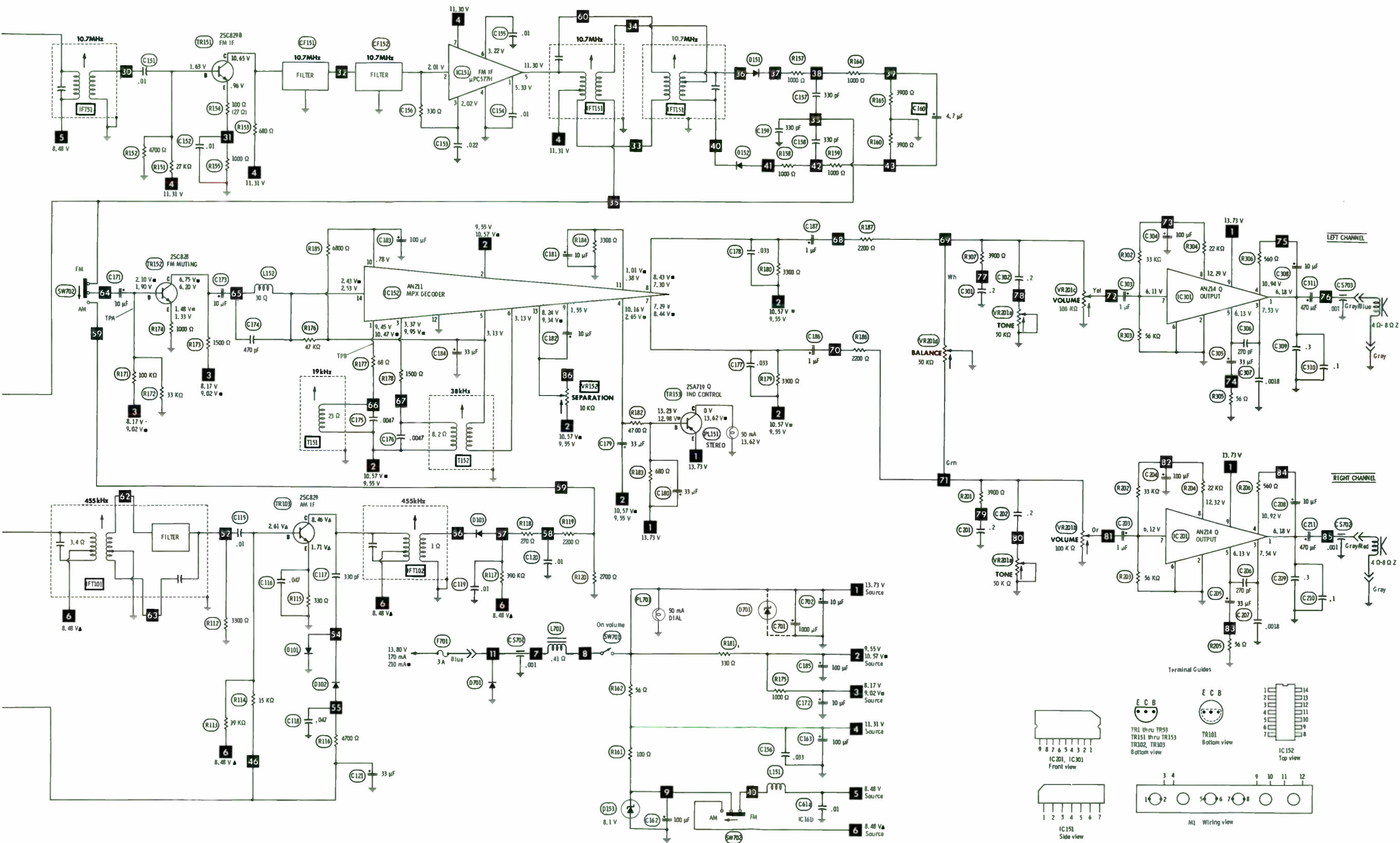


- *— Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ⏏ Chassis
- ▽ Common tie point

Measurements with switching as shown unless noted:
 ■ FM Stereo signal ▲ 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 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.

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C51	8	YECCD1H080DM		CD15CD080003		MMA-080
C52	18	YECCD1H180KM		CD15CD180J03		MMA-180
C53	10 N330	YECCD1H100JS			*	10TCS-Q10
C54	8 N330	YECCD1H080DS			*	10TCS-V82
C55	6	ECV1Z06X32				
C56	2	YECCD1H020CM				
C57	33	YECCD1H330KM				
C58	470		DD-471	GP470	GP347	10TS-T47
C59	470		DD-471	GP470	GP347	10TS-T47
C60	5	YECCD1H050DM				
C61	3	YECCD1H030DM				
C61a	.01		UK50-103		MAG5011	
C62	12 N750	YECCD1H120JU			CN7412	10TCU-Q12
C63	6	ECV1Z06X32				
C64	2	YECCD1H020CM				
C65	27	YECCD1H270KM				
C66	1	YECCD1H010CM				
C67	270		DD-271	GP270	GP327	10TS-T27
C68	.01		UK50-103		MAG5011	
C69	3 N750	YECCD1H030DU			CN7533	10TCS-V30
C70	39	YECCD1H390KM				
C71	470		DD-471	GP470	GP347	10TS-T47
C72	4 N750				CN7547	10TCU-V47
C73	5	YECCD1H050DM				
C74	.0047	YECCD1H0472K				
C75	4 N750					
C76	.01		UK50-103			
C101	15			CD15CD150J03		MMA-150
C102	50	ECV1Z050X40				GK850000
C103	15	YECCD1H150KM		CD15CD150J03		MMA-150
C104	.01			WMF1S1	EWFA110	1PB-S10
C105	.0022	YECCD1H222K			M192P2229R8	192P2229R8
C106	.047	YECCD1H473M			EWFA147	1PB-S47
C107	.033	YECCD1H333M			M192P3339R8	192P3339R8
C108	70	YECCD1H070DM				
C109	100		DD-101	GP100	GP310	10TS-T10
C110	.0022	YECCD1H222K			M192P2229R8	192P2229R8
C111	.0056	YECCD1H562K			M192P5629R8	192P5629R8
C112	180 5% N330	YECCD1H181JS			*	10TCS-T18
C113	39	YECCD1H390KM		CD15ED390J03	SX439	MMA-390
C114	70	YECCD1H070DM				
C115	.01			WMF1S1	EWFA110	1PB-S10
C116	.047	YECCD1H473M			EWFA147	1PB-S47
C117	330		DD-331	GP330	GP333	10TS-T33
C118	.047	YECCD1H473M			EWFA147	1PB-S47
C119	.01			WMF1S1	EWFA110	1PB-S10
C120	.01			WMF1S1	EWFA110	1PB-S10
C151	.01		UK50-103		MAG5011	
C152	.01		UK50-103		MAG5011	
C153	.022	YECCD1H223M			M192P2239R8	192P2239R8
C154	.01		UK50-103		MAG5011	
C155	.01		UK50-103		MAG5011	
C156	.033	YECCD1H333M			M192P3339R8	192P3339R8
C157	330		DD-331	GP330	GP333	10TS-T33
C158	330		DD-331	GP330	GP333	10TS-T33
C159	330		DD-331	GP330	GP333	10TS-T33
C174	470 5%			CD15FD471J03	SX347	MMA-471
C175	.0047 5%			CD19FD472J03	SX247	MMA-472
C176	.0047 5%			CD19FD472J03	SX247	MMA-472
C177	.033	YECCD1H333M			M192P3339R8	192P3339R8
C178	.033	YECCD1H333M			M192P3339R8	192P3339R8
C201	.2 12V	YECCD12204M	UK16-204			HY-470
C202	.2 12V	YECCD12204M	UK16-204			HY-470
C206	270 5%		DD-182	GP1800	SX327	MMA-271
C207	.0018			GP1800	GP218	10TS-D18
C209	.3 12V	YECCD12304M			MAG12033	HY-375
C210	.1			WMF05P1	EWFO5010	431P1049R5
C301	.2 12V	YECCD12204M	UK16-204			HY-470
C302	.2 12V	YECCD12204M	UK16-204			HY-470
C306	270 5%			CD15FD271J03	SX327	MMA-271
C307	.0018		DD-182	GP1800	GP218	10TS-D18
C309	.3 12V	YECCD12304M			MAG12033	HY-375
C310	.1			WMF05P1	EWFO5010	431P1049R5

*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.
VR152	Separation	10K	EVN-K4AA00814				
VR201a	Tone-Right	50K	EWJ2UBS26927				
VR201a	Tone-Left	50K	(18)				
VR201b	Volume-Right	100K					
VR201c	Volume-Left/On-Off	100K					
VR201d	Balance	50K					

(18) Includes VR201a, VR201a, VR201b, VR201c, & VR201d.

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.	
IFT51	IF 10.7MHz	YE1F07S7049			
IFT101	IF 455kHz	YE1C07D2004A (1)			
		YE1C07D2003A (2)			
IFT102	IF 455kHz	YE1A10S7086			
IFT151	IF 10.7MHz	YE1F07S7048			
IFT152	IF 10.7MHz	YE1F07S7047			
L51	FM Ant	(3)			
L52	RF Choke	YELT04C5R6K			
L53	FM RF	(3)			
L54	10.7MHz Trap	YELT03C011			
L55	FM Osc	(3)			
L101	AM Ant Choke	YELQ05C040			
L102	AM Ant	(3)			
L103	AM RF	(3)			
L104	AM Osc	YELLO7S069			
L105	Image Trap	YELT04C5R6K			
L106	AM Osc Tuning	(3)			
L151	RF Choke	YELT04C330K			
L152	67kHz Trap	YELH14S917			
T151	19kHz	YELM07S912			
T152	38kHz	YELM07S911			

(1) After Serial No. 501081.
(2) Serial No. 500101-501080.
(3) Part of M1 Tuner Assembly.

HONDA MODEL CR-1719FUH

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.	
L701	210mA	.41	3.3mH	YETQ020F031			

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	XBB1C30NR1	YEAJ01250	AGC3	HDJ	312003	150145	FG3-2

For SAFETY use only equivalent replacement part.

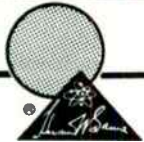
MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF151	Ceramic Filter	YE1N09H5004 (1)	SFE 10.7MA (Red Dot)
CF152	Ceramic Filter	YE1H09H5004 (1)	SFE 10.7MA (Red Dot)
M1	Tuner Assembly	YEAU05239	AM/FM
	Tuning Coil Assembly	YEAZ05BRH002	AM/FM
	Cable Assembly	YEAJ03162	Speaker (R)
	Cable Assembly	YEAJ03161	Speaker (L)
SW701	Switch		On Volume
SW702	Switch	YEAS07028	AM/FM

(1) When replacing, CF151 and CF152 should also be replaced.

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

ITEM	PART No.	ITEM	PART No.
Escutcheon Assembly	YEF02445	Button Assembly AM (2 used)	YEF010227
Scale, Dial	YEFJ08423	Knob, Tone/Dummy (2 used)	YEF01513
Pointer, Dial	YEFH01137	Knob, Tuning/Volume/Balance	YEF01016
Button Assembly FM (3 used)	YEF010226		



PHOTOFACT[®] with

CIRCUITRACE[®]

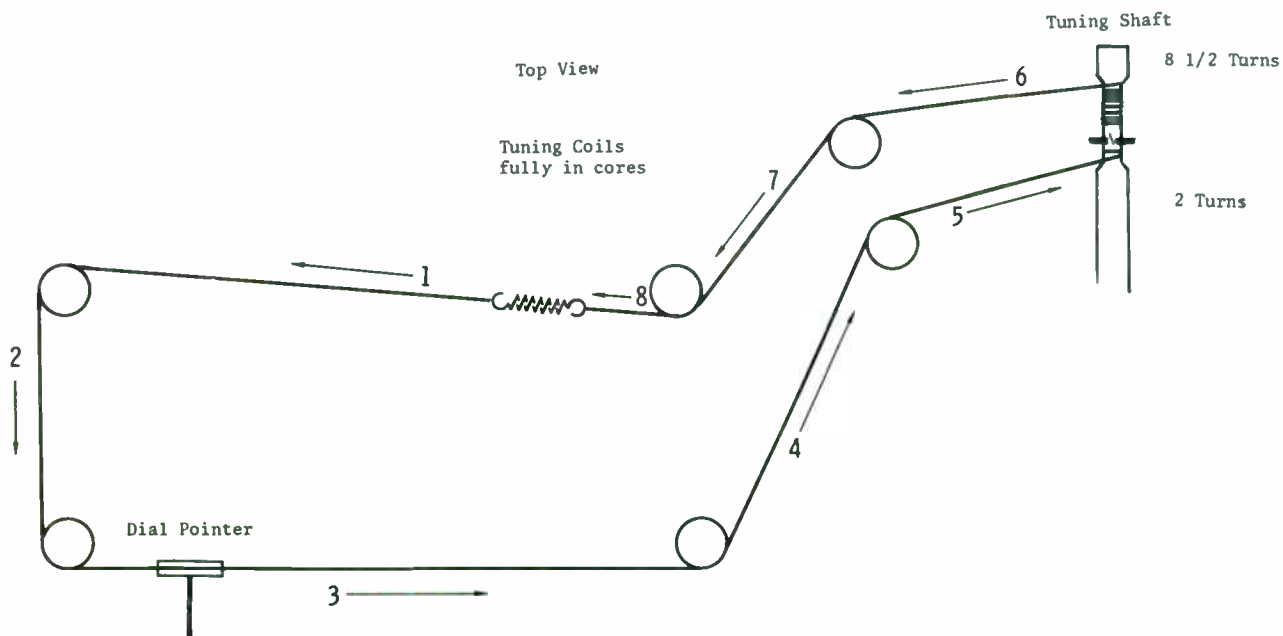
For Supplier Address See PHOTOFACT Index



MODEL 12R710

RCA MODEL 12R710

DIAL CORD STRINGING



HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46208

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ALIGNMENT INSTRUCTIONS

Check for specified source voltage.
 Connect low sides of generator and indicator to ground unless specified otherwise.
 Use only enough generator output to provide a usable indication.

Suggested Alignment Tools:

IFT1, IFT4, IFT5, IFT6 5000, 8277, 9089
 TC1 Thru TC6 5000, 8277, 9089

GC ELECTRONICS:

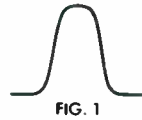


FIG. 1



FIG. 2

PUSH-BUTTON ADJUSTMENT

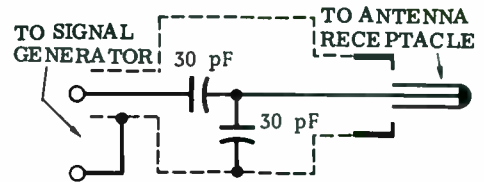
1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

AM ALIGNMENT—SELECTOR IN AM POSITION

Connect output meter across speaker voice coil.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST	REMARKS
High side thru .1uF to antenna input.	262kHz 400-Hz mod.	High freq end stop	IFT6, IFT5	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	TC6,TC5, TC4	"

With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust TC4 for maximum output. Antenna adjustment is located inside tape door, right front corner.



DUMMY ANTENNA

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

High side of generator thru .001uF to TP1.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to TP5.	(1) IFT4(Pri), IFT1	Adjust for maximum.
"	"	DC probe of VTVM to TP3.	IFT4(Sec)	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 TP1.

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 TP5.	(1) IFT4(Pri), IFT1	Adjust for maximum gain and symmetry of response similar to Fig. 1.
"	"	Vert input of scope to TP3.	IFT4(Sec)	Adjust IFT4 (Sec) for maximum amplitude and straightness of line, similar to Fig. 2.

ALIGNMENT INSTRUCTIONS (Continued)

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.

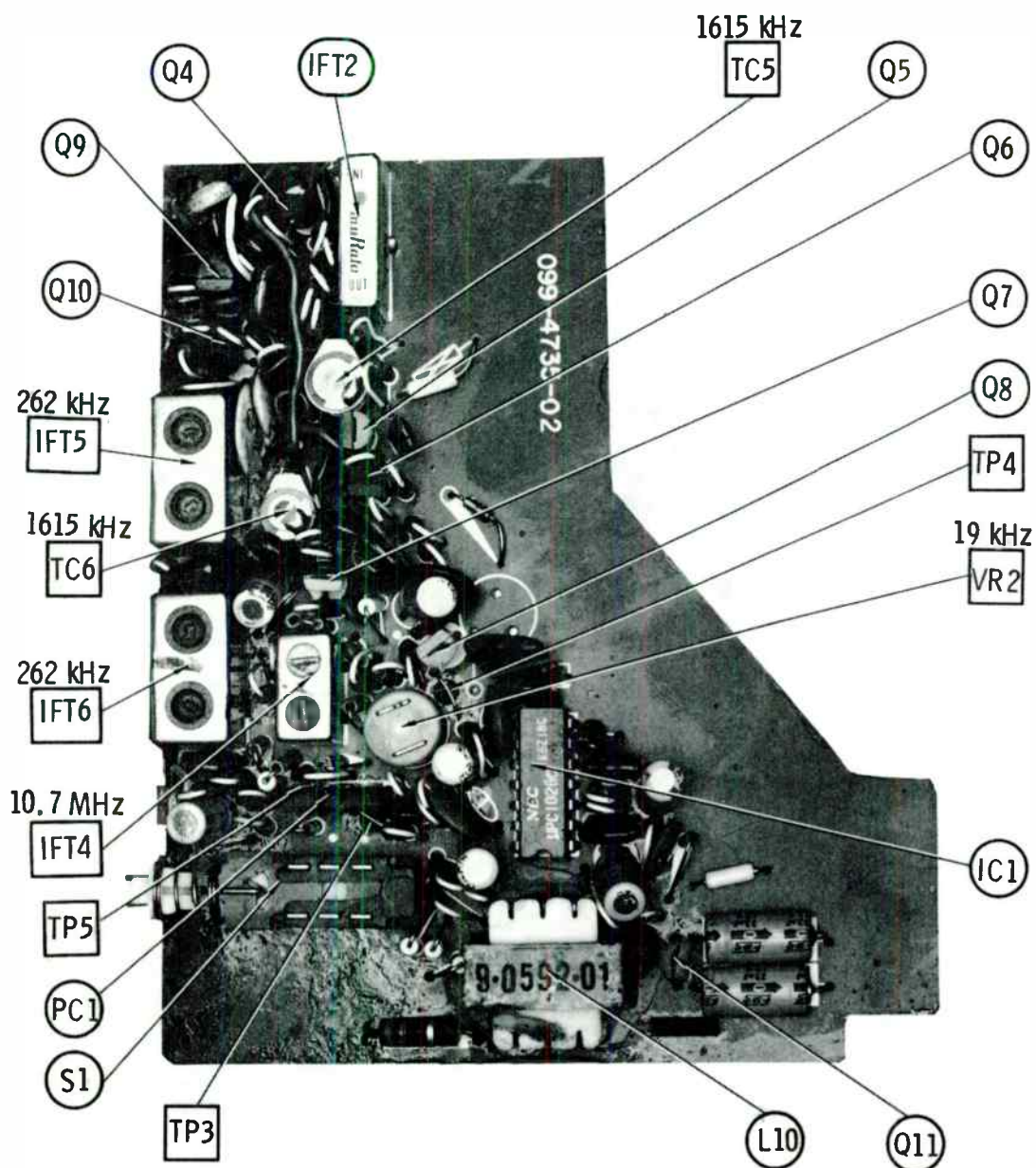
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Unmodulated	High freq End stop	DC probe of VTVM to TP5.	TC3,TC2,TC1	Adjust for maximum.

(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

FM STEREO ALIGNMENT USING AUDIO GENERATOR

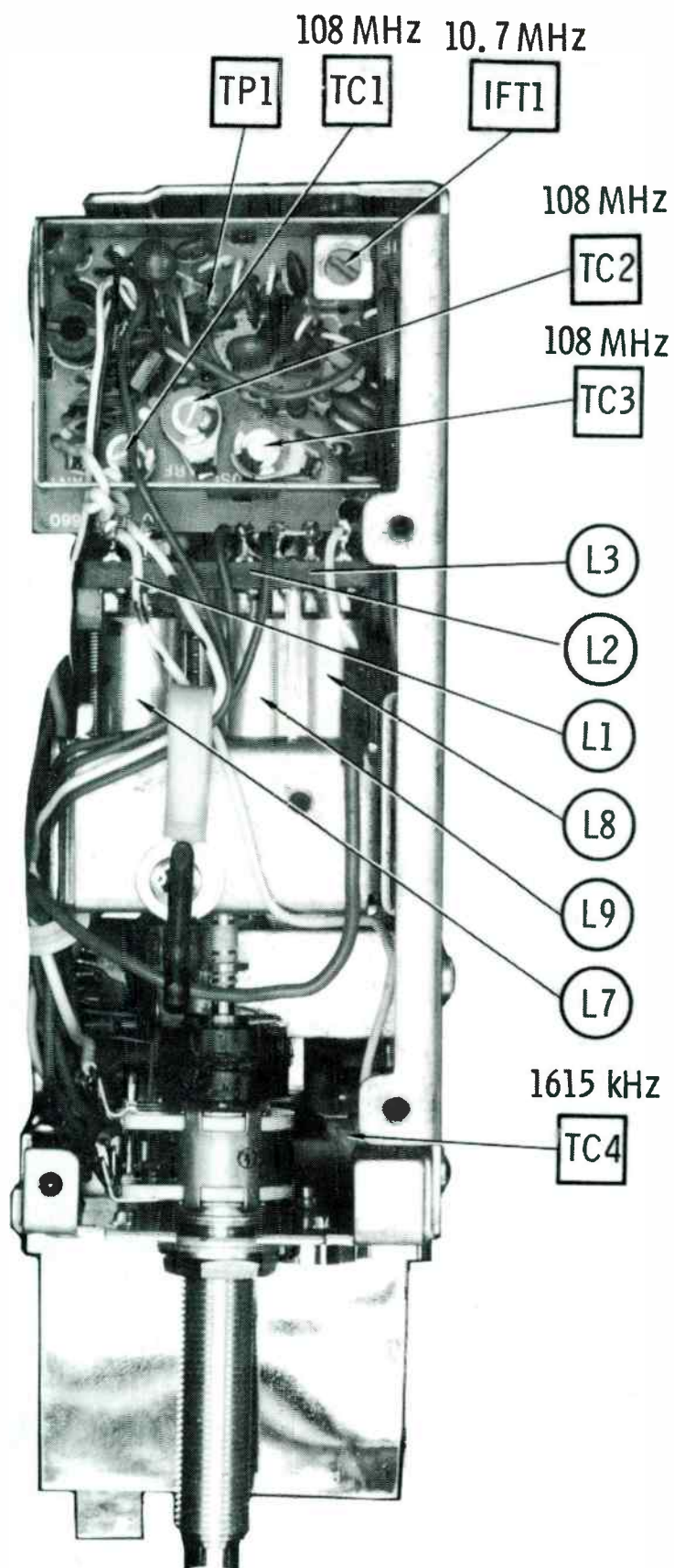
Ground TP3.

GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
	Connect frequency counter to TP4.	VR2	Adjust for 19kHz \pm 20Hz.

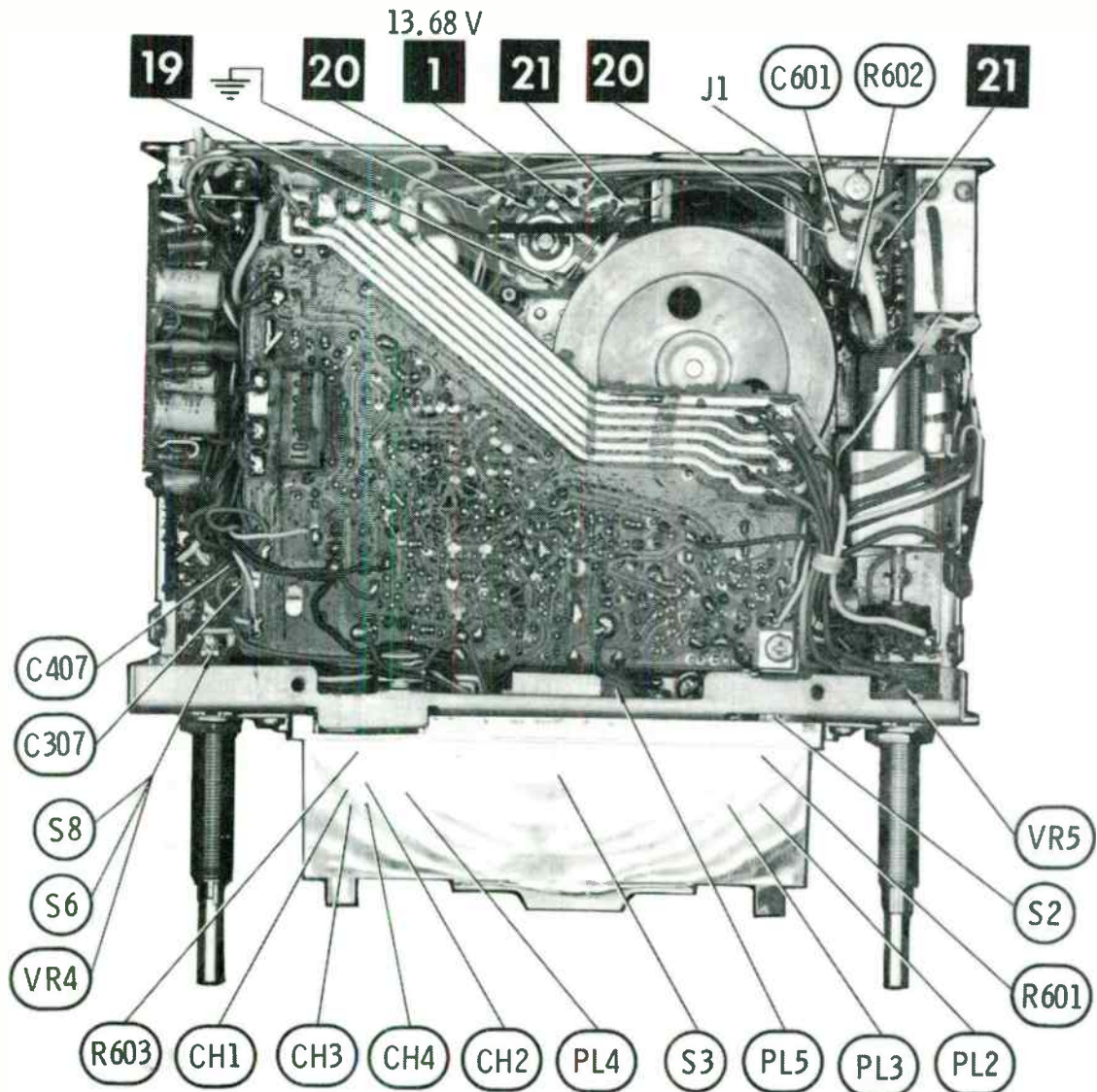


RCA MODEL 12R710

MAIN BOARD



CHASSIS-SIDE



RCA MODEL 12R710

CHASSIS-TOP

CLEANING LUBRICATING HEAD DEMAGNETIZING

Refer to
"General Servicing Information"
on page 4.

ADJUSTMENTS

ADJUST	REMARKS
Head Azimuth	Play a test cartridge and adjust Screw 34 for maximum on meter across output.
Head Height	Play a test cartridge, follow instructions with cartridge, and adjust Screw 13 for proper response.

TROUBLE CHART

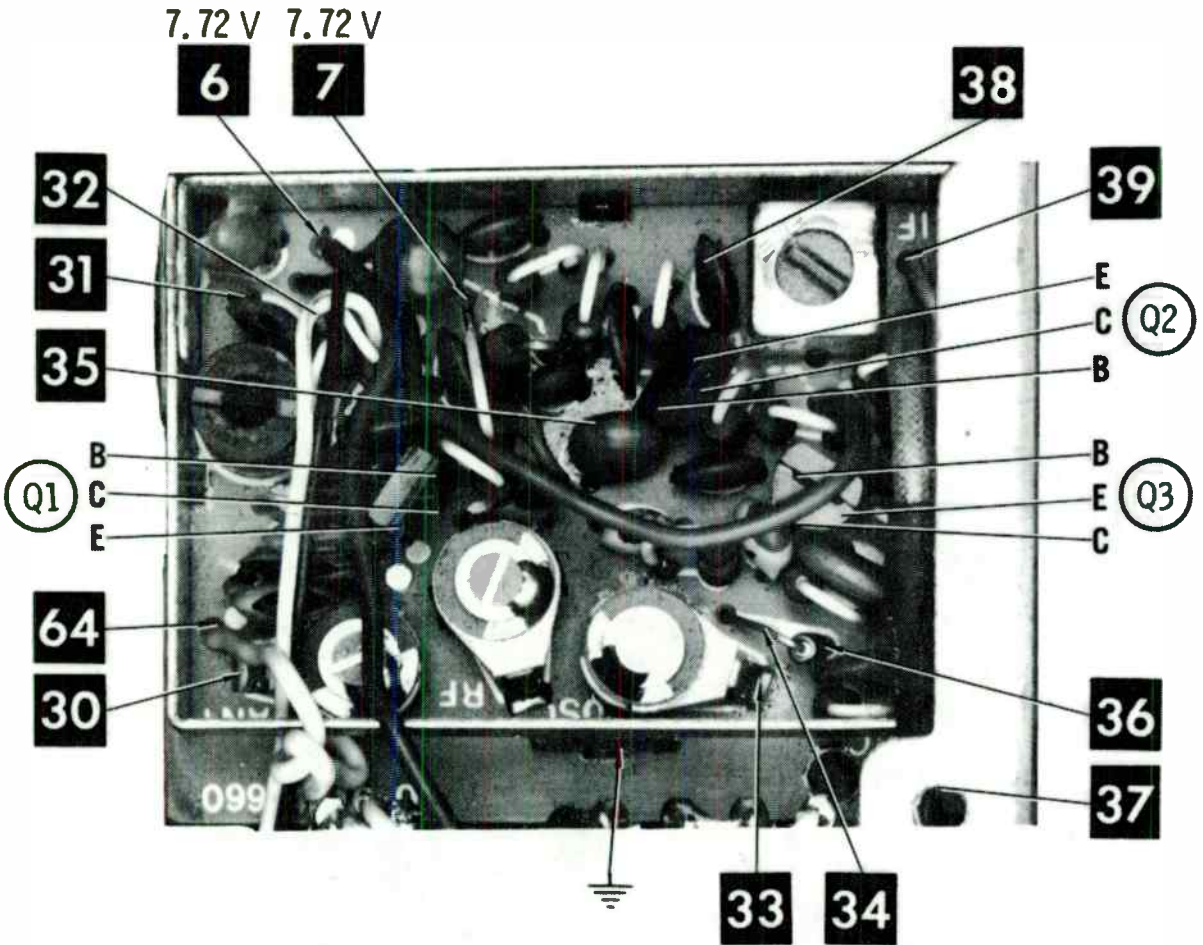
SYMPTOM	REMARKS
Capstan does not rotate.	Belt 21 dirty, worn, or broken. Assembly 22 binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch S9 dirty. Cam 14 binding or worn. Pawl 16A worn. Assembly 9 binding. Solenoid K1 defective or not supplied with power. Cartridge 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.

MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
2	742308	Cartridge Detent Arm	16A	(1)	Pawl
8	742311	Head Lifting Spring	16B	(1)	Pawl Spring
9		Head Shifting Assembly	16C	(1)	Solenoid Spring
12	742313	Height Adjust Spring	17	742317	Azimuth Spring
13	742314	Height Adjust Screw	21*	742319*	Flywheel Drive Belt*
14	742315	Track Changing Cam	22		Flywheel Bearing Assembly
16	742316	Plunger Assembly	23	742320	Flywheel
			34		Azimuth Adjust Screw

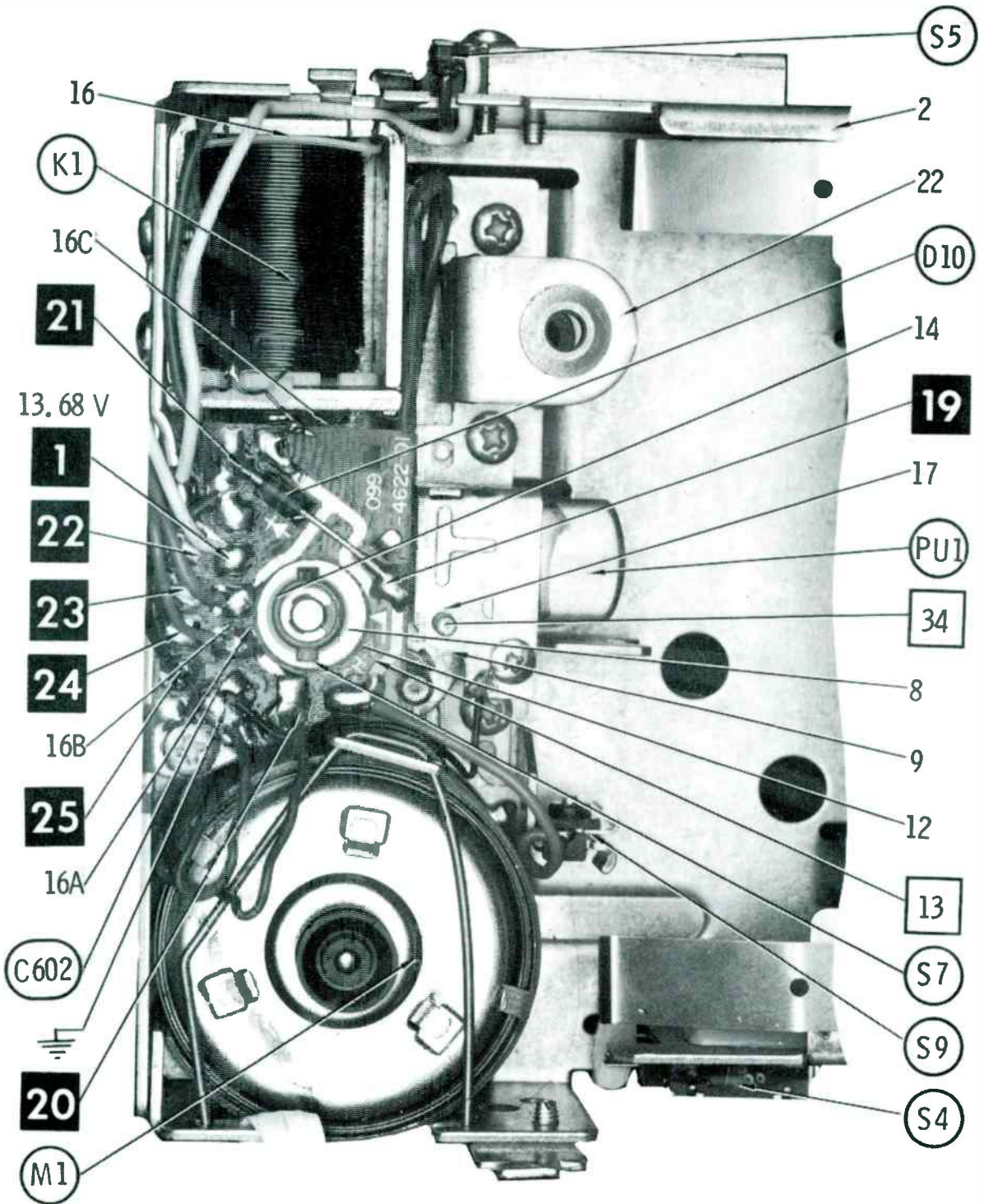
* Flywheel Drive Belt: E-V/GAME Replacement Number 1407-48.
WALSCO Replacement Number 1425-28.

(1) Part of Assembly #16.

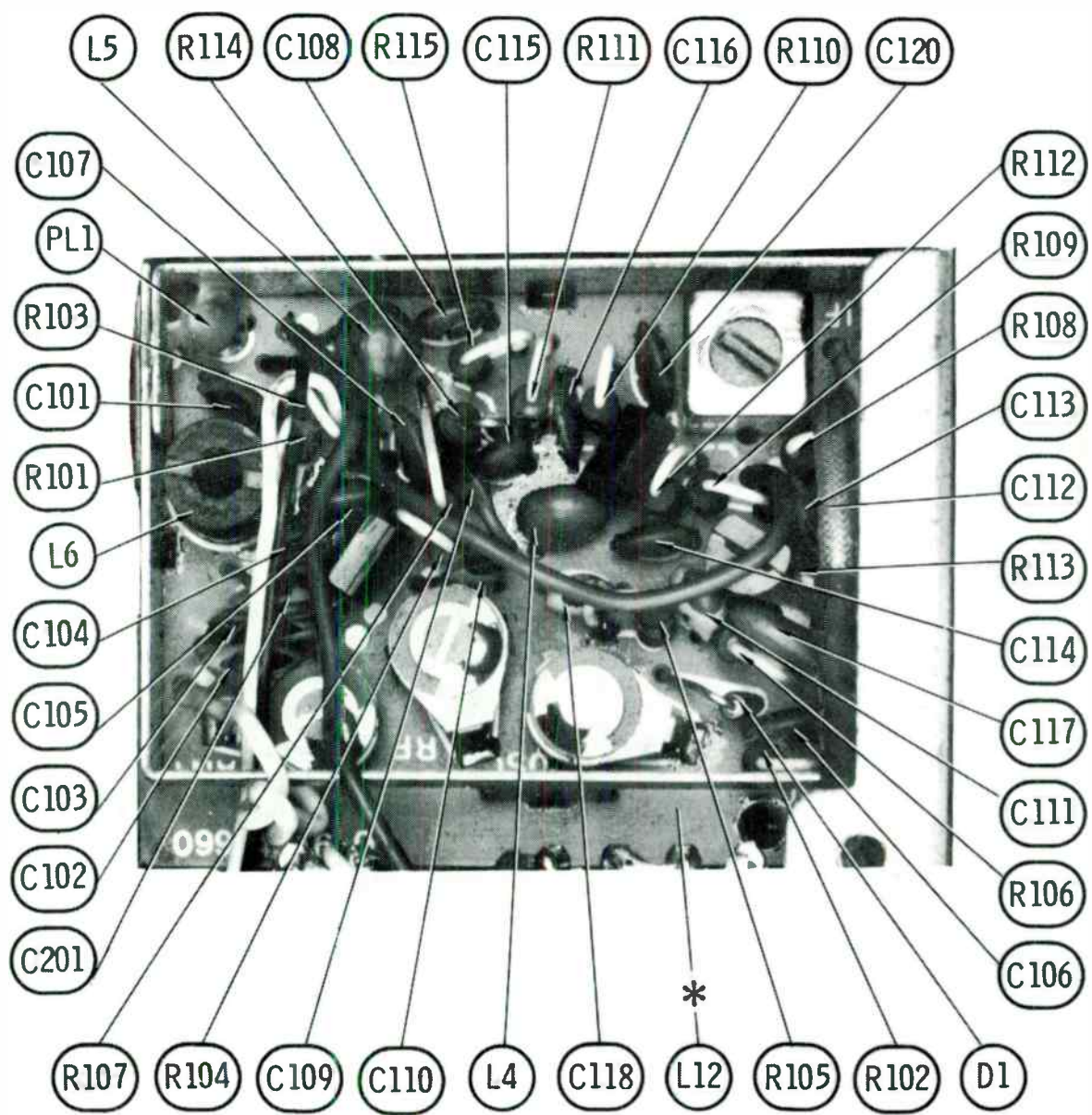


RCA MODEL 12R710

TAPE DECK-TOP

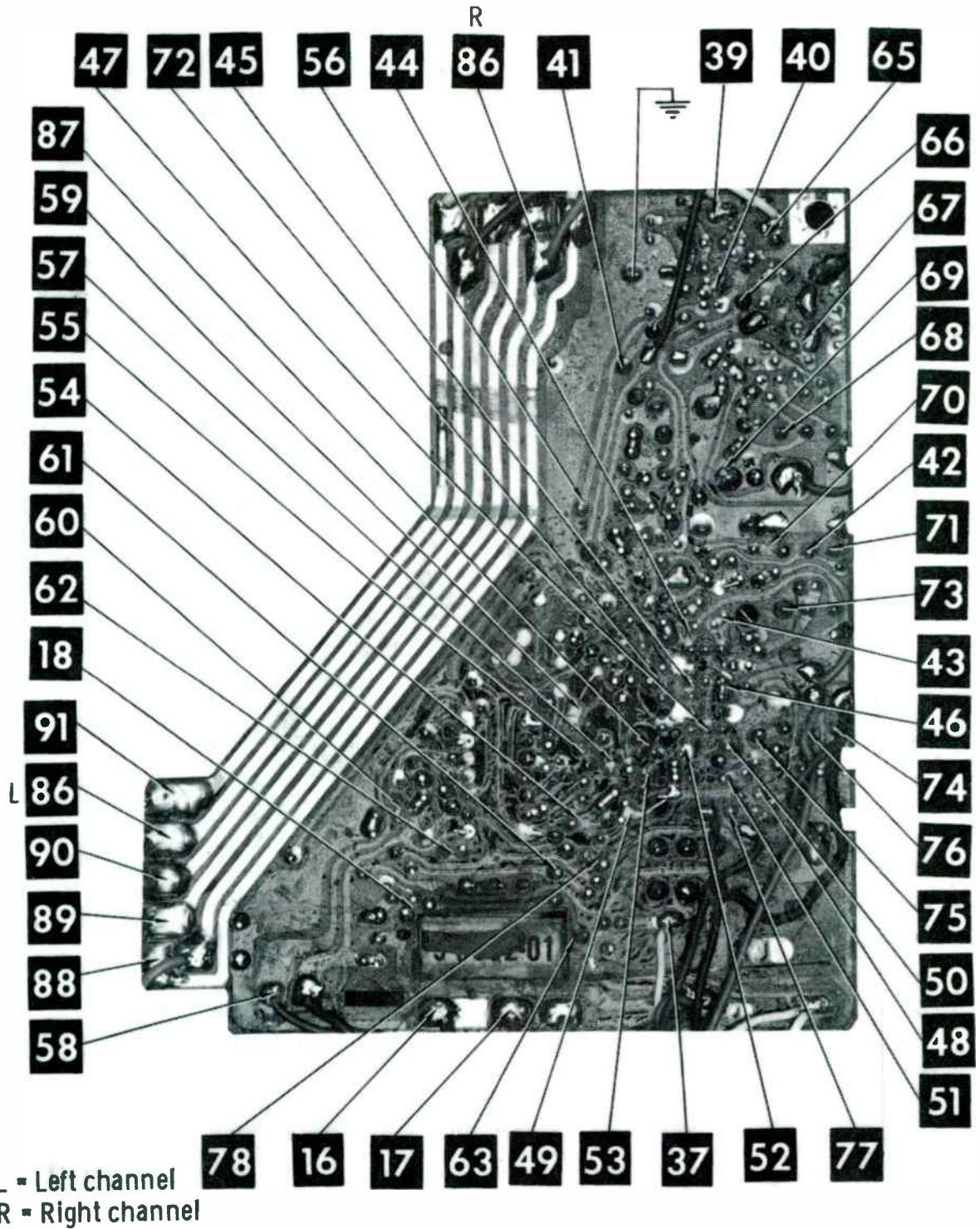


FM TUNER



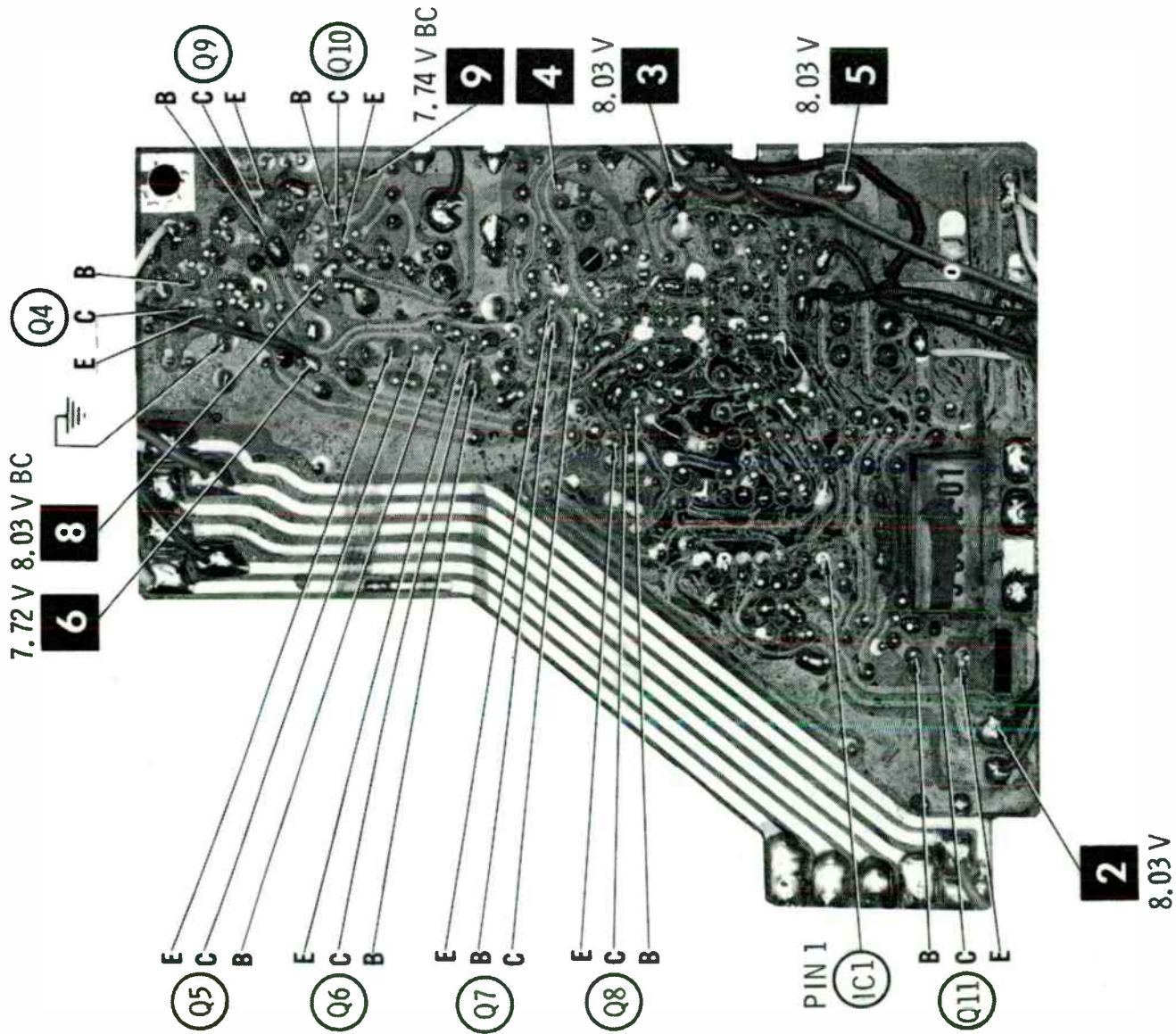
* On bottom

FM TUNER

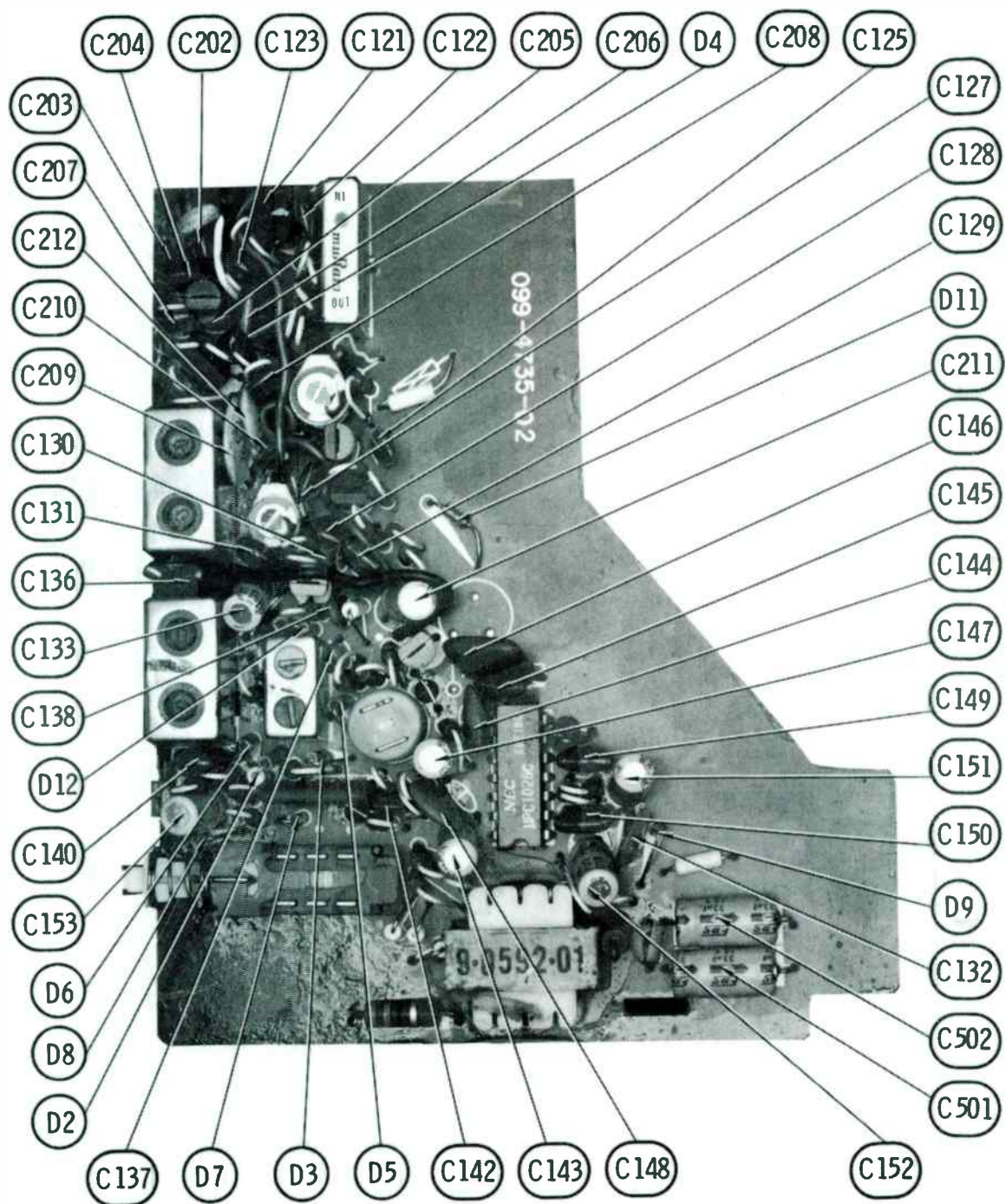


MAIN BOARD

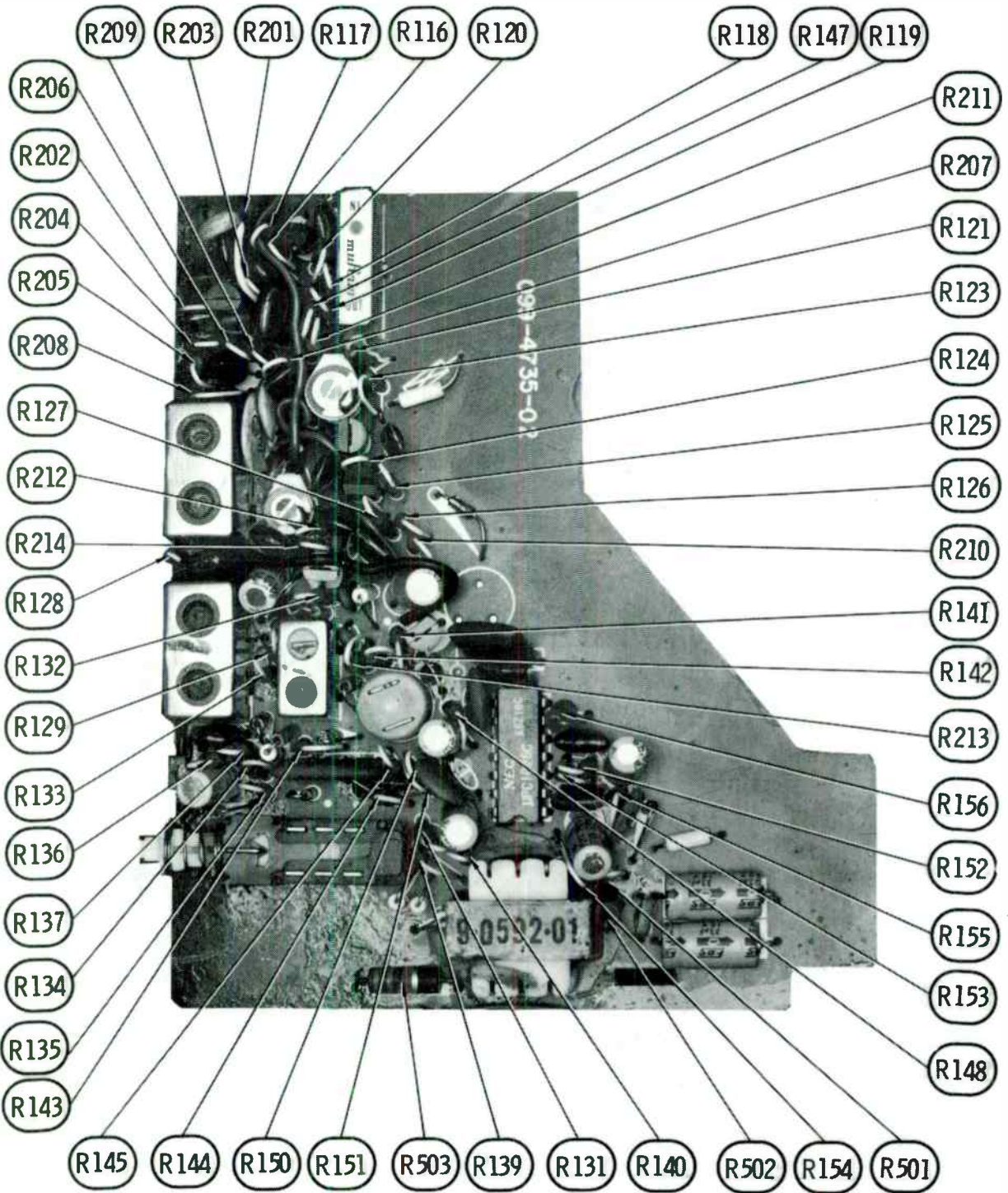
RCA MODEL 12R710



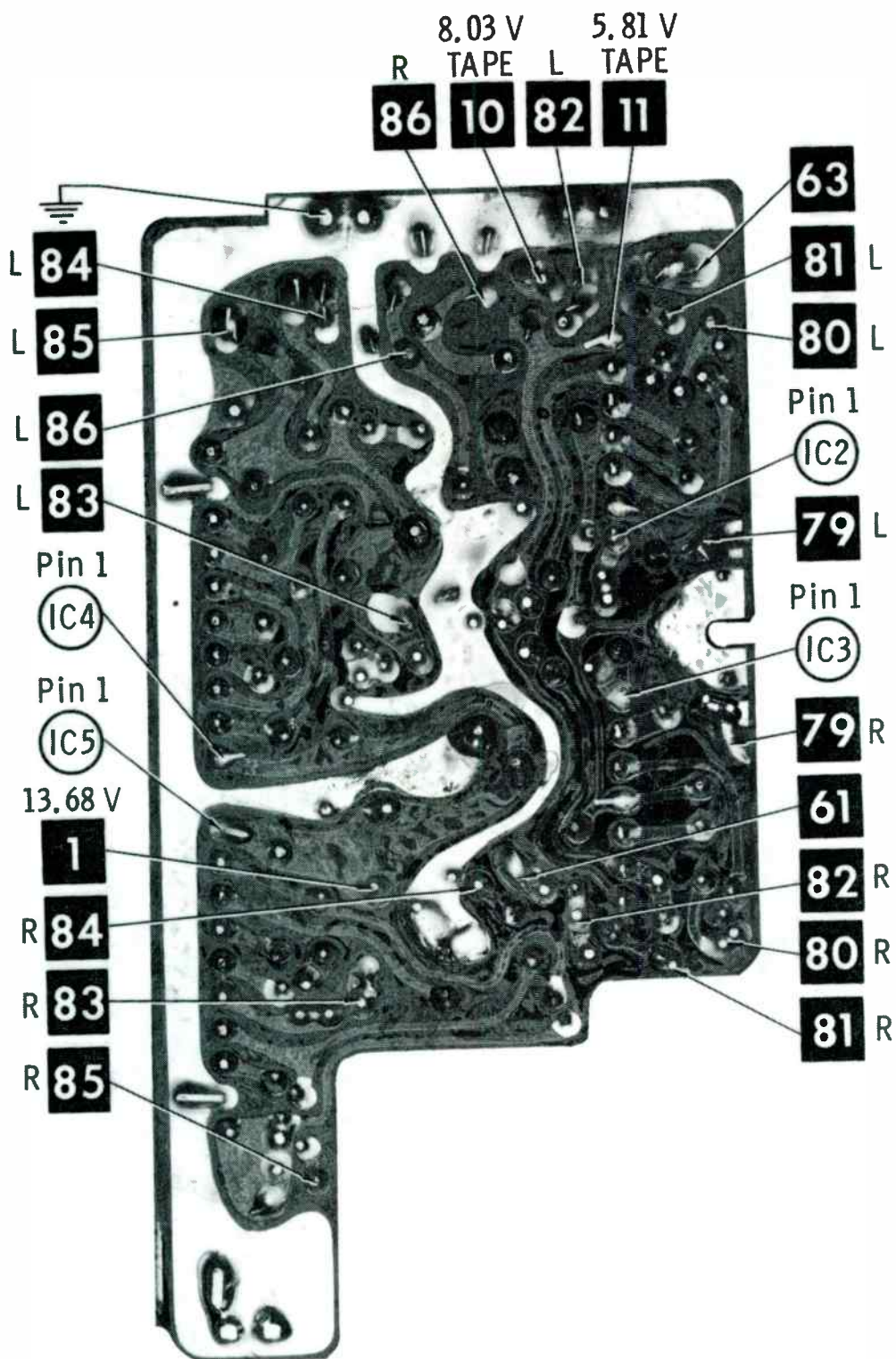
MAIN BOARD



MAIN BOARD

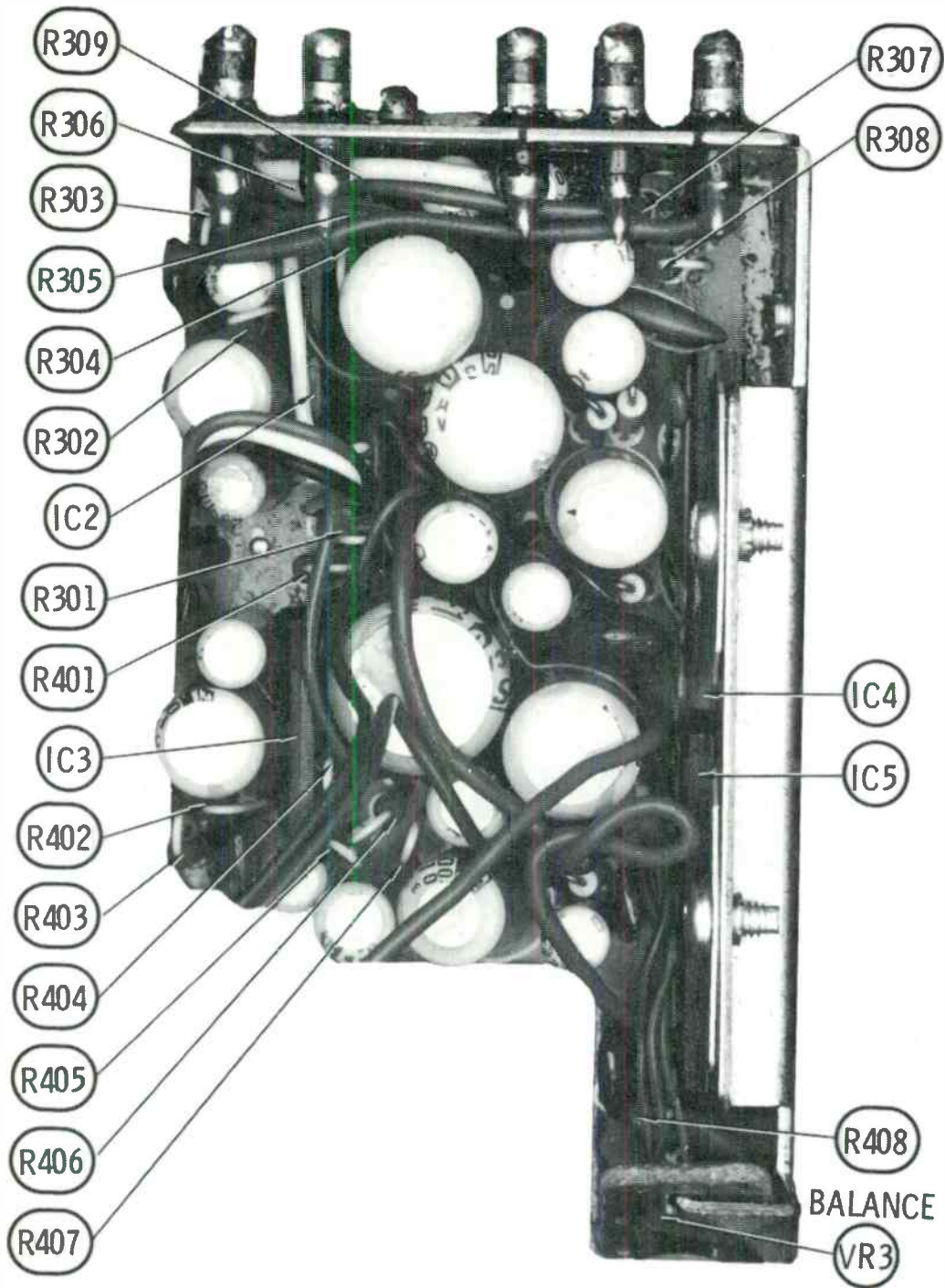


MAIN BOARD

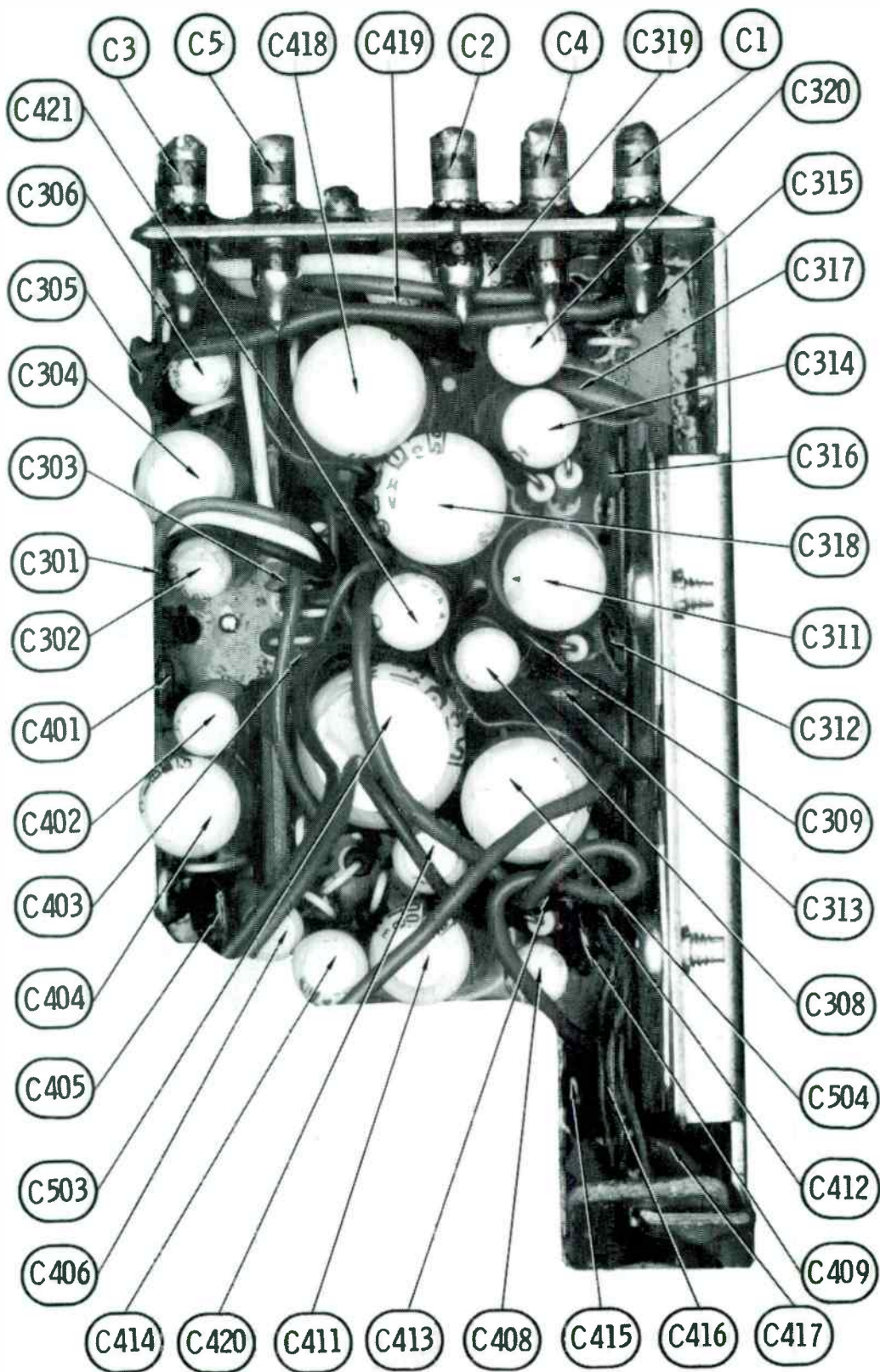


L = Left channel
R = Right channel

AUDIO BOARD

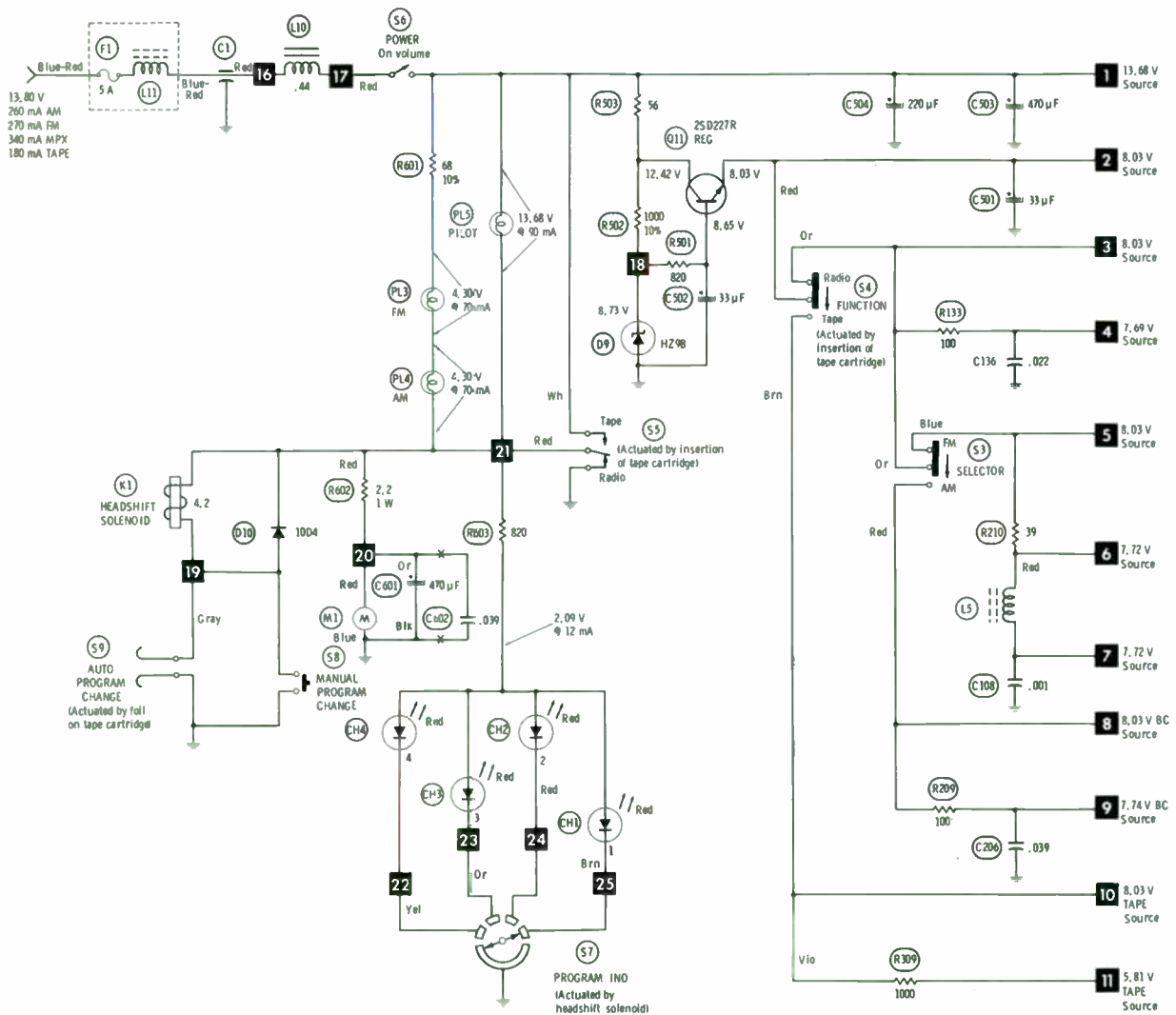


AUDIO BOARD



AUDIO BOARD

NOTE: DEMAGNETIZE HEADS AFTER SERVICING



RCA MODEL 12R710

- /— Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See ports list
- ⊛ Nominal value
- ⊕ Ground
- ⌘ Chassis
- ▽ Common tie point
- Signal path
- ⤵ Voltage path

Measurements with switching as shown unless noted.

Item numbers in rectangles appear in the alignment/adjustment instructions.

Supply voltage maintained as shown or 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.

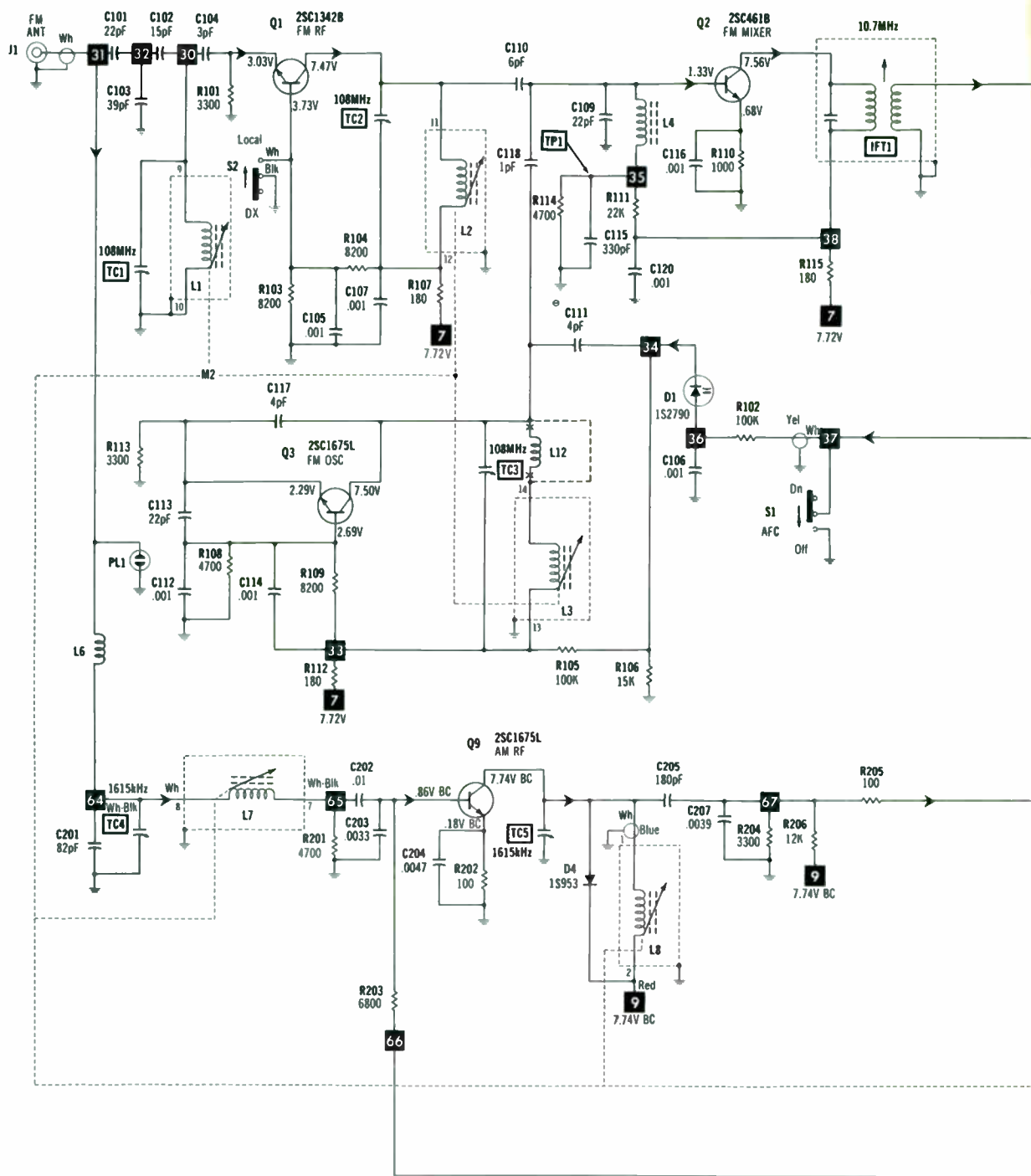
A PHOTOFACIT STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITRACE**

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Terminal Guide



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
- Signal path
- ↔ Voltage path

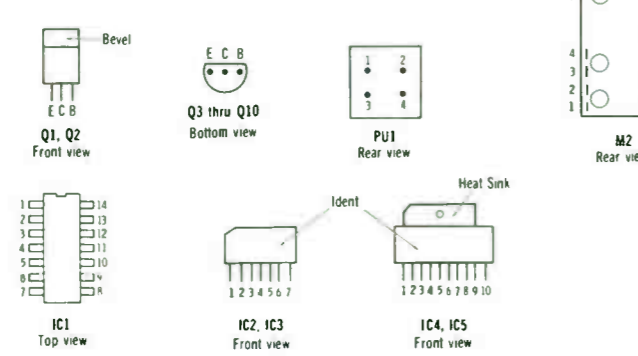
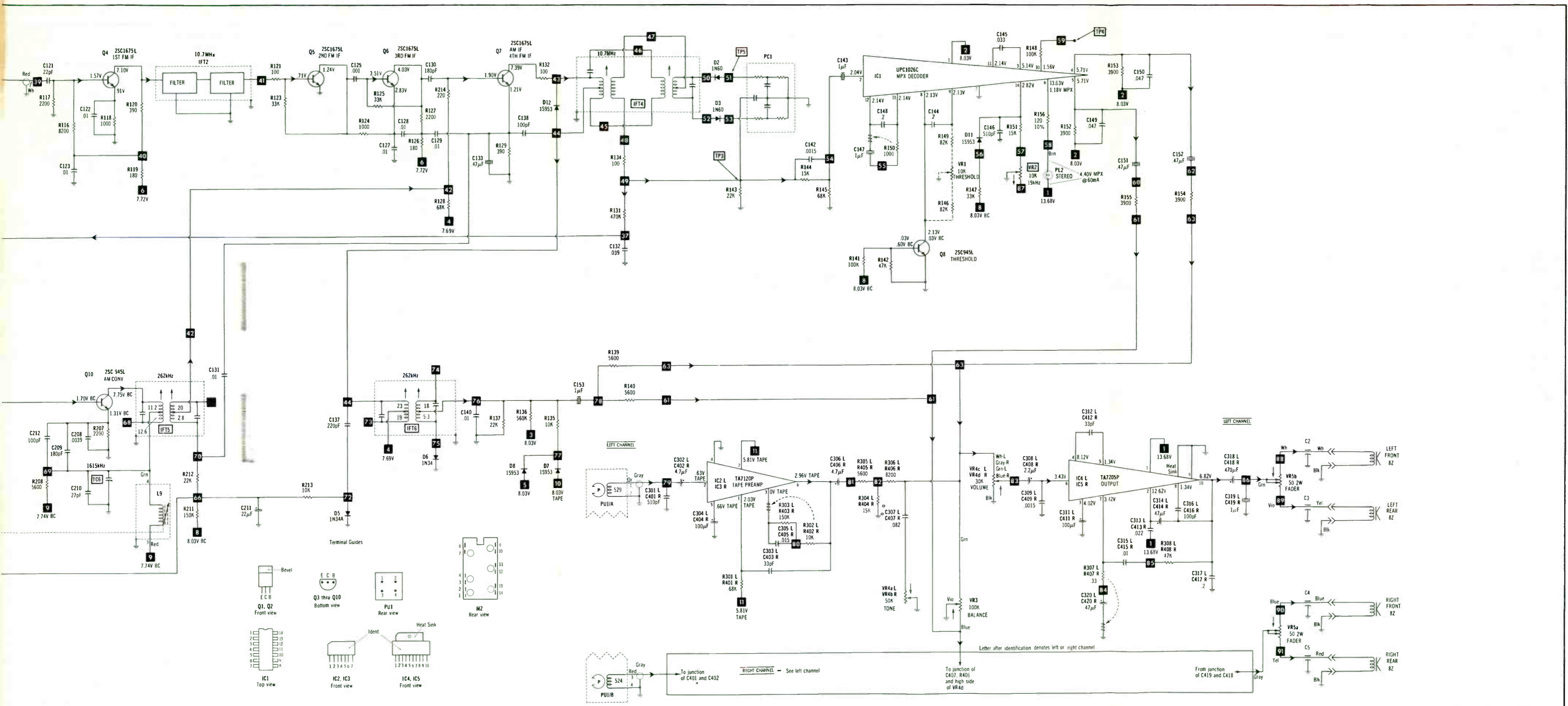
A PHOTOFACIT STANDARD NOTATION SCHEMATIC
WITH **CIRCUITRACE**

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Supply voltage maintained as shown at input.
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Value in () used in some versions.



INDEX

Listing all models in PHOTOFACT Auto Radio Series volumes from 1970 (AR-70).

For models covered before 1970, see the Annual Index.

Abbreviations used: (EP) Early Production (LP) Late Production (SN) Serial Number (Rev) Revised (PCB) Production Change Bulletin											
AFCO	VOL.	AMERICAN MOTORS	VOL.	ARTHUR FULMER	VOL.	AUDIOVOX (CONT.)	VOL.	AUDIOVOX (CONT.)	VOL.	AUDIOVOX (CONT.)	VOL.
APK810	216	(CONT.)		74B (Pg 107)	164	C935	95	D8T74PB (Pg 21)	136	LC075PDK	222
AG52	222	5KJ1405	167	C940	190	DIN71FM (Pg 5)	99	DIN71FM (Pg 5)	137	LC075PFM	223
ID300APK	195	5KJ1511	212	791	160	DTN610FM (Pg 5)	99	DTN610FM (Pg 5)	93	LC075QDX	226
ID400PB	221	5KJ2405	169	792	205	C950	132	DVA720FM (Pg 5)	94	LUN73FM (Pg 5)	137
IDC600APK	220	5KJ3511	212	3900,3901	209	C965	134	DTN1200FM	154	LUN73MEX	177
IDC650AE	231	5RA1507	212	4601	212	C973	166	DTN1200PB	155	LUN73PB (Pg 5)	138
SB480	223	5RA1508	212	4801	217	C974	131	DTR73PB (Pg 5)	137	LUN74FM (Pg 5)	137
SC700	224	5RA1524	212			C975	138	DTR73MEX	177	LUN74MEX	177
SCX900	226	5RA1525	212			C976	160	DTR74PB (Pg 5)	138	LUN74PB (Pg 5)	138
SK301SB	227	5RA2404	200			C977	138	DTR74MEX	177	MAT73MEX (Pg 21)	133
		5RA2510	219			C978	167	DTR74PB (Pg 5)	137	MAT73MEX (Pg 21)	133
		5RA2520	219			C979	182	DTR74MEX	177	MAT74MEX (Pg 21)	133
		5RA3509	216			C980	139	DTR74MEX	177	MAT74MEX (Pg 21)	133
		5RA3517	216			C983 (Pg 15)	166	DTR75DCK/B	235	MAT75DCK/B	218
		5RA4503	217			C984	187	DTR75DCK/B	219	MAT75DCK/B	218
		5RA4518	217			C986	206	DVA73FM (Pg 5)	137	MAT75QDX	226
		95M6	82			C990	162	DVA73MEX	177	MAT75TPK/A	219
		95M8	86			CA73PB (Pg 21)	133	DVA73PB (Pg 5)	138	MCB2000	238
		3591052	87			CA73PB (Pg 45)	136	DVA74MEX (Pg 5)	137	ME73PB/MEX	181
		3601578	87			CA74FM (Pg 21)	136	DVA74PB (Pg 5)	136	ME74FM/MEX	181
		3614434	86			CA74MEX (Pg 45)	133	DVA75DCK/B	218	ME74PB	174
		3614435	84			CA74PB (Pg 21)	136	DVA75DLX/B	235	OL73PB/MEX	181
		3616442	86			CA75DCK/B	218	DVA75TPK/A	219	OL73PB	174
		3631192	82			CA75DLX/B	235	BC073FM (Pg 5)	138	OL74FM/MEX	181
		3631193	83			CA75MCK	216	BC073MEX	177	OL74PB	174
		3632704	122			CA75TPK/A	219	BC073PB (Pg 5)	138	OL75DCK/B	218
		3651039	133			CA75TPK/A	219	BC074MEX (Pg 5)	137	OL75DLX/B	235
		3664162	200			CA75TPK/A	219	BC074MEX	177	OL75MCK	216
		3665160	212			CA75TPK/A	219	BC074PB (Pg 5)	138	OL75QDX	226
		3665161	217			CA75TPK/A	219	BC075DCK/B	235	OL75TPK/A	219
		(1RA/2RA/5RA1508)	212			CA75TPK/A	219	BC075DLX/B	235	OLF73PB/MEX	181
		3665161 (2RA1410)	167			CA75TPK/A	219	CH73PB/MEX	181	OLF73PB	174
		3665162 (2RA1410)	216			CH73PB	174	CH73PB (Pg 5)	174	OLF74FM/MEX	181
		3665164	171			CH74FM/MEX	177	CH74FM/MEX	177	OLF74PB	174
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		3672718 (1HT2409)	200			CH75DCK/B	235	CH75MCK	216	OLF75DLX/B	235
		3672718 (5HT2409)	170			CH75MCK	216	CH75MCK	216	OLF75QDX	226
		3672718 (5HT3607)	231			CH75TPK/A	219	CH75TPK/A	219	OLF75TPK/A	219
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		3674344				CH75TPK/A	219	CH75TPK/A	219	OMA73MEX (Pg 45)	136
		(1HT/2HT/5HT1509)	212			CH75TPK/A	219	CH75TPK/A	219	OMA73PB (Pg 21)	136
		3674344 (2HT1432)	167			CH75TPK/A	219	CH75TPK/A	219	OMA74FM (Pg 21)	133
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		3691026	229			CH75TPK/A	219	CH75TPK/A	219	PGP75TPK/A	219
		3691026	231			CH75TPK/A	219	CH75TPK/A	219	PGP75TPK/A	219
		3691026	229			CH75TPK/A	219	CH75TPK/A	219	PGP75TPK/A	219
		3691026	231			CH75TPK/A	219	CH75TPK/A	219	PGP75TPK/A	219
		3691026	229			CH75TPK/A	219	CH75TPK/A	219	PGP75TPK/A	219
		3691026	231			CH75TPK/A	219	CH75TPK/A	219	PGP75TPK/A	219
		3691026	229			CH75TPK/A	219	CH75TPK/A	219	PGP75TPK/A	219
		3691026	231			CH75TPK/A	219	CH75TPK/A	219	PGP75TPK/A	219
		3691026	229			CH75TPK/A	219	CH75TPK/A	219	PGP75TPK/A	

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	2SCH598181	3895717 (Pg 35)176		D2C18806 (73)138	1FB098
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	2SCH600181	3895717 (Pg 35)176		D2C18806 (73)138	1FB298
	2SCH601181	3895717 (Pg 35)176		D2C18806 (73)138	1FB398
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TC28	256	RF50DFP	IDI7015A27	132	4DC7400A	178				
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TC30A	164	TO71PM	IDI7140A27	136	4DC7406A	179	0BVO, 1BVO	109		
		TO71MPX	IDI7400A47	178	4DC7408	215				
			IDI7406A47	179	4DC7418	183				

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