

SAMS PHOTOFACT[®]

AUTO RADIO SERIES



AR-262

262

JULY, 1978



CONTENTS

DELCO	80AFMC1 (7898470), 80BFPC1 (7898340), 81YFMC1 (16001691)
FORD	D80F-18806AA, BA
JIL	862
KRACO	KID-560D/-565A/-566
PANASONIC	CQ-841EU, CQ-6700EU



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



SAMS PHOTOFACT[®] AUTO RADIO SERIES



VOLUME

262



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 262**

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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.



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



DELCO 1978 SERIES

MODEL 80AFMC1 (7898470)

80AFMC1 (7898470) CHEVROLET, PONTIAC, OLDSMOBILE, BUICK (1978)

80BFPC1 (7898340) CHEVROLET, PONTIAC, OLDSMOBILE, BUICK, G-VAN (1978)

81YFMC1 (16001691) CORVETTE (1978)

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

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ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period.
 Adjustments made with 13.8-volt DC input.
 Connect low sides of test equipment to ground unless specified otherwise.
 Connect 50-ohm dummy load or antenna before keying transmitter.
 Connect microphone.

Suggested Alignment Tools: GC ELECTRONICS:
 C1, C226 8276, 5000
 T1, T2, T3, T6 9440
 L4, L5, L44, L75, L76, T4, T5, .. 9304, 9300, 9302

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP2 (U3 Pin 4).	Ch. 1	C1	Adjust for 10.240MHz.
Input of DC meter to TP3 (U3 Pin 6).	Ch. 1	T6	Adjust for 1.25V \pm .05 volts
	Ch. 1, XMT	C226	Adjust for 1.60 volts.
Input of frequency counter to TP4 (T6, Tap).	Ch. 1		Check for 6.270 MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP5 (Q12 Drain)	Ch. 1, XMT		Check for 13.4825MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP6 (U3 Pin 2).	Ch. 1		Check for 1.920MHz. Check all channels. (See Truth Chart for correct frequencies.)
	Ch. 1		Check for .960MHz. Check all channels. (See Truth Chart for correct frequencies.)

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil.
 Adjust volume control to obtain a suitable indication.
 Set generator output low enough to prevent AGC limiting.
 Squelch MINIMUM.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP7 (Q20, G1). 455kHz,1000Hz @ 30% modulation.	Ch. 19	T5, T4	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation.	Ch. 19	T3, T2, T1	Adjust for maximum output. If necessary readjust T1, T2 and T3.

TRANSMITTER ALIGNMENT

Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
 NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 19	L5	Adjust for maximum.
	Ch. 40	L4	Adjust for maximum.
	Ch. 19	L44, L75, L76	Adjust for maximum.
	Ch. 19	L44	Adjust for 4 watts maximum.

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:
C4, C3 5000, 8276
C5, C6 8271
L1A, L1B, L1C 8728A, 8728
T1, T4, L4, L5 9440
T5, T6 9304, 9300, 9302

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 jack.	262kHz 400-Hz mod.	High freq end stop	T6, T5	Adjust for maximum.
Check setting of oscillator coil core L1C Rear of core should be 1-3/8" from mounting end of coil form.				
High side thru 82pF to antenna input	1615kHz 400Hz Mod.	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 to desired height, tune in a weak station near 1400kHz and adjust C4 for maximum output. Antenna adjustment C4 is located above tuning shaft.				

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

Make certain AM is operating properly; because the AM oscillator controls FM tuning.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
	High frequency end stop	DC probe of VTVM to TP9	R80	Adjust for 7.3V.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR--SELECTOR IN FM POSITION

High side of generator thru .001uF to TP7 (U2, Pin 10).
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
"	"	Vert input of scope to TP8 (Junction of C118 and R120)	T1, T4	Adjust for maximum amplitude and straightness of line

FM RF ALIGNMENT--SELECTOR IN FM POSITION

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

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Modulated	108MHz	AC probe of VTVM to TP8 (Junction of C118 & R120)	C3	Adjust for maximum.
88MHz Modulated	88MHz	"	L5, L6 L4	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

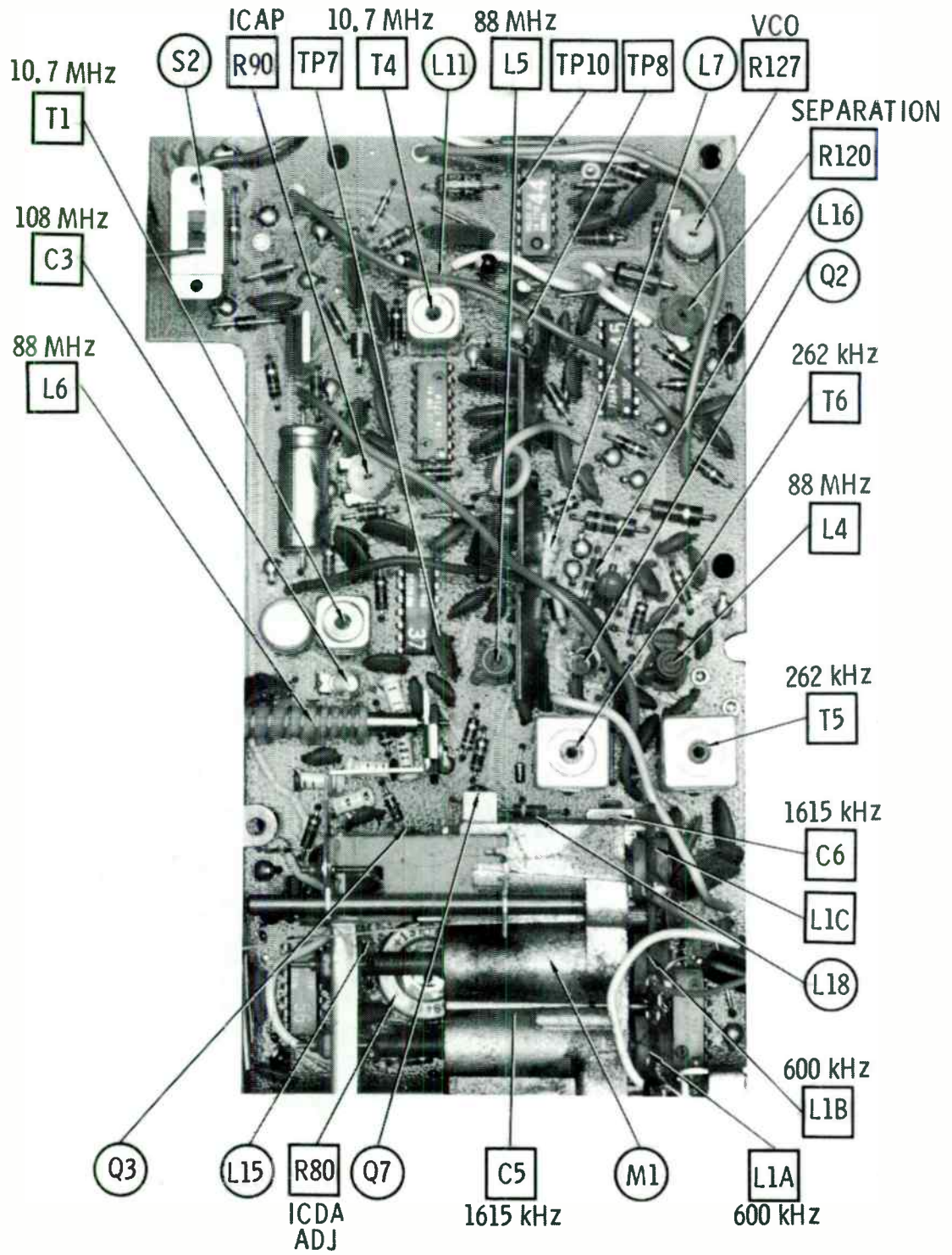
FM STEREO ADJUSTMENT

Tune receiver for a stereo signal. Adjust balance control for equal channel output. Adjust Separation control R120 for best separation.

FM STEREO ALIGNMENT

Connect a jumper from TP8 (Junction of C118 & R120) to ground.

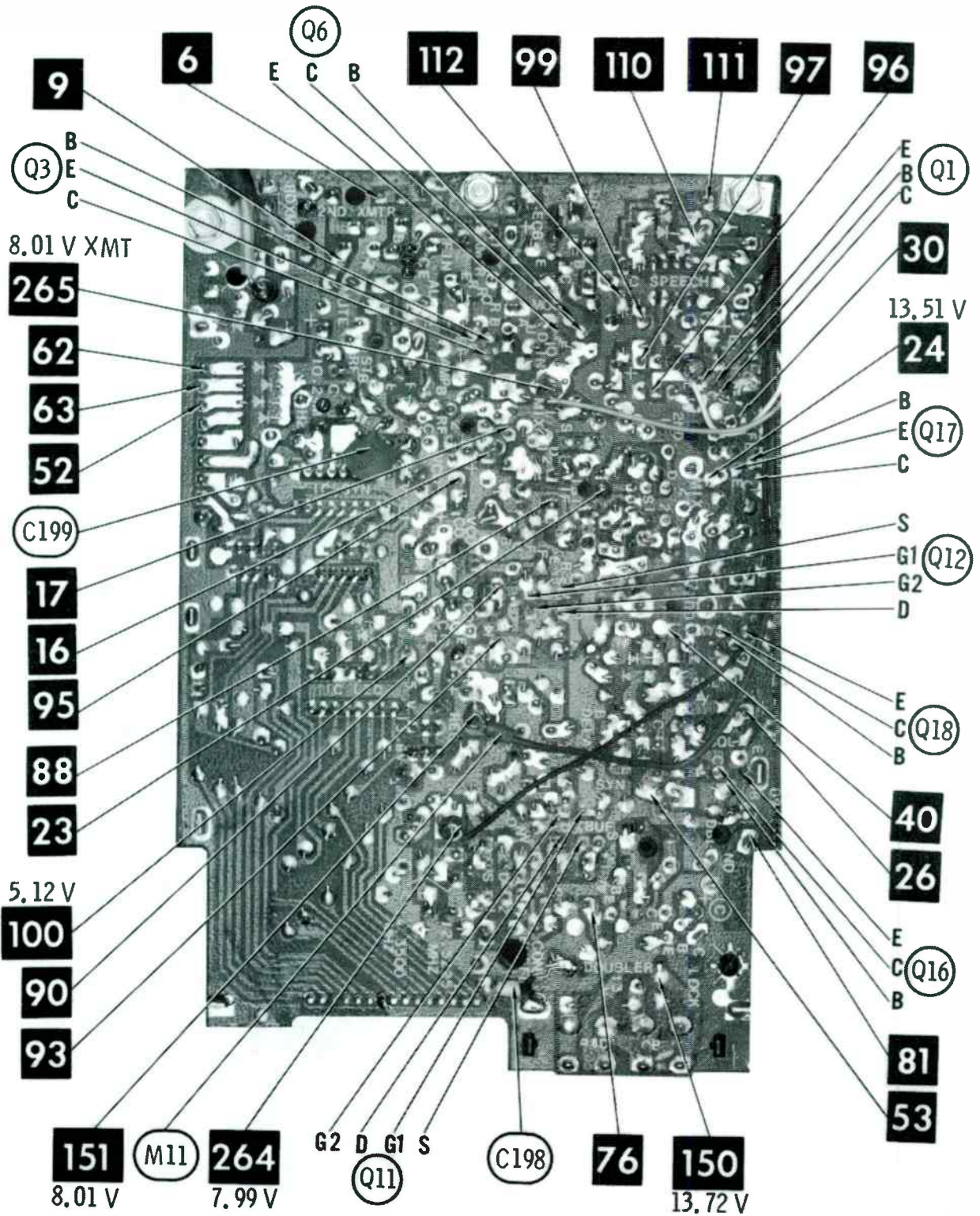
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
	Input of frequency counter to TP10 (U4, Pin 11).	R127	Adjust for 19kHz \pm 20Hz.



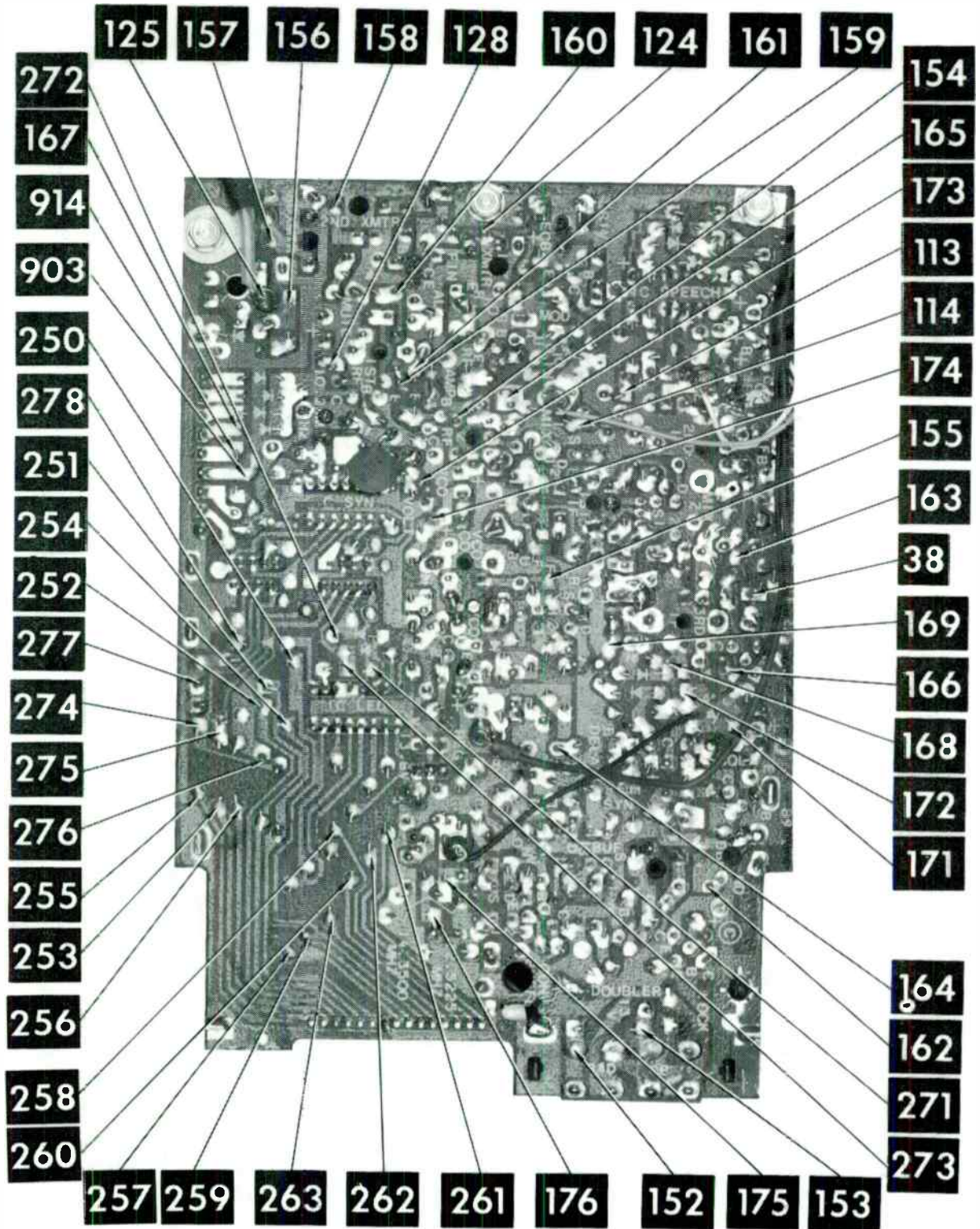
AM-FM BOARD

TRUTH CHART

C H A N N E L	1 = 5.11 Volts 0 = 0 Volts						REC SYNTHESIZER OUTPUT IN MHz AT TP4 (T6 Tap)	XMT SYNTHESIZER OUTPUT IN MHz AT TP5 (Q12, Drain)	REC DIVIDER INPUT IN MHz AT TP6 (V3, Pin 2)	XMT DIVIDER INPUT IN MHz AT TP6 (V3, Pin 2)
	U3 PROGRAM DIVIDER									
	PINS									
	10	11	12	13	14	15				
1	0	0	0	0	0	0	16.270	13.4825	1.920	.9605
2	0	0	0	0	0	1	16.280	13.4875	1.930	.9655
3	0	0	0	0	1	0	16.290	13.4925	1.940	.9705
4	0	0	0	1	0	0	16.310	13.5025	1.960	.9805
5	0	0	0	1	0	1	16.320	13.5075	1.970	.9855
6	0	0	0	1	1	0	16.330	13.5125	1.980	.9905
7	0	0	0	1	1	1	16.340	13.5175	1.990	.9955
8	0	0	1	0	0	1	16.360	13.5275	2.010	1.0055
9	0	0	1	0	1	0	16.370	13.5325	2.020	1.0105
10	0	0	1	0	1	1	16.380	13.5375	2.030	1.0155
11	0	0	1	1	0	0	16.390	13.5425	2.040	1.0205
12	0	0	1	1	1	0	16.410	13.5525	2.060	1.0305
13	0	0	1	1	1	1	16.420	13.5575	2.070	1.0355
14	0	1	0	0	0	0	16.430	13.5625	2.080	1.0405
15	0	1	0	0	0	1	16.440	13.5675	2.090	1.0455
16	0	1	0	0	1	1	16.460	13.5775	2.110	1.0555
17	0	1	0	1	0	0	16.470	13.5825	2.120	1.0605
18	0	1	0	1	0	1	16.480	13.5875	2.130	1.0655
19	0	1	0	1	1	0	16.490	13.5925	2.140	1.0705
20	0	1	1	0	0	0	16.510	13.6025	2.160	1.0805
21	0	1	1	0	0	1	16.520	13.6075	2.170	1.0855
22	0	1	1	0	1	0	16.530	13.6125	2.180	1.0905
23	0	1	1	1	0	1	16.560	13.6275	2.210	1.1055
24	0	1	1	0	1	1	16.540	13.6175	2.190	1.0955
25	0	1	1	1	0	0	16.550	13.6225	2.200	1.1005
26	0	1	1	1	1	0	16.570	13.6325	2.220	1.1105
27	0	1	1	1	1	1	16.580	13.6375	2.230	1.1155
28	1	0	0	0	0	0	16.590	13.6425	2.240	1.1205
29	1	0	0	0	0	1	16.600	13.6475	2.250	1.1255
30	1	0	0	0	1	0	16.610	13.6525	2.260	1.1305
31	1	0	0	0	1	1	16.620	13.6575	2.270	1.1355
32	1	0	0	1	0	0	16.630	13.6625	2.280	1.1405
33	1	0	0	1	0	1	16.640	13.6675	2.290	1.1455
34	1	0	0	1	1	0	16.650	13.6725	2.300	1.1505
35	1	0	0	1	1	1	16.660	13.6775	2.310	1.1555
36	1	0	1	0	0	0	16.670	13.6825	2.320	1.1605
37	1	0	1	0	0	1	16.680	13.6875	2.330	1.1655
38	1	0	1	0	1	0	16.690	13.6925	2.340	1.1705
39	1	0	1	0	1	1	16.700	13.6975	2.350	1.1755
40	1	0	1	1	0	0	16.710	13.7025	2.360	1.1805

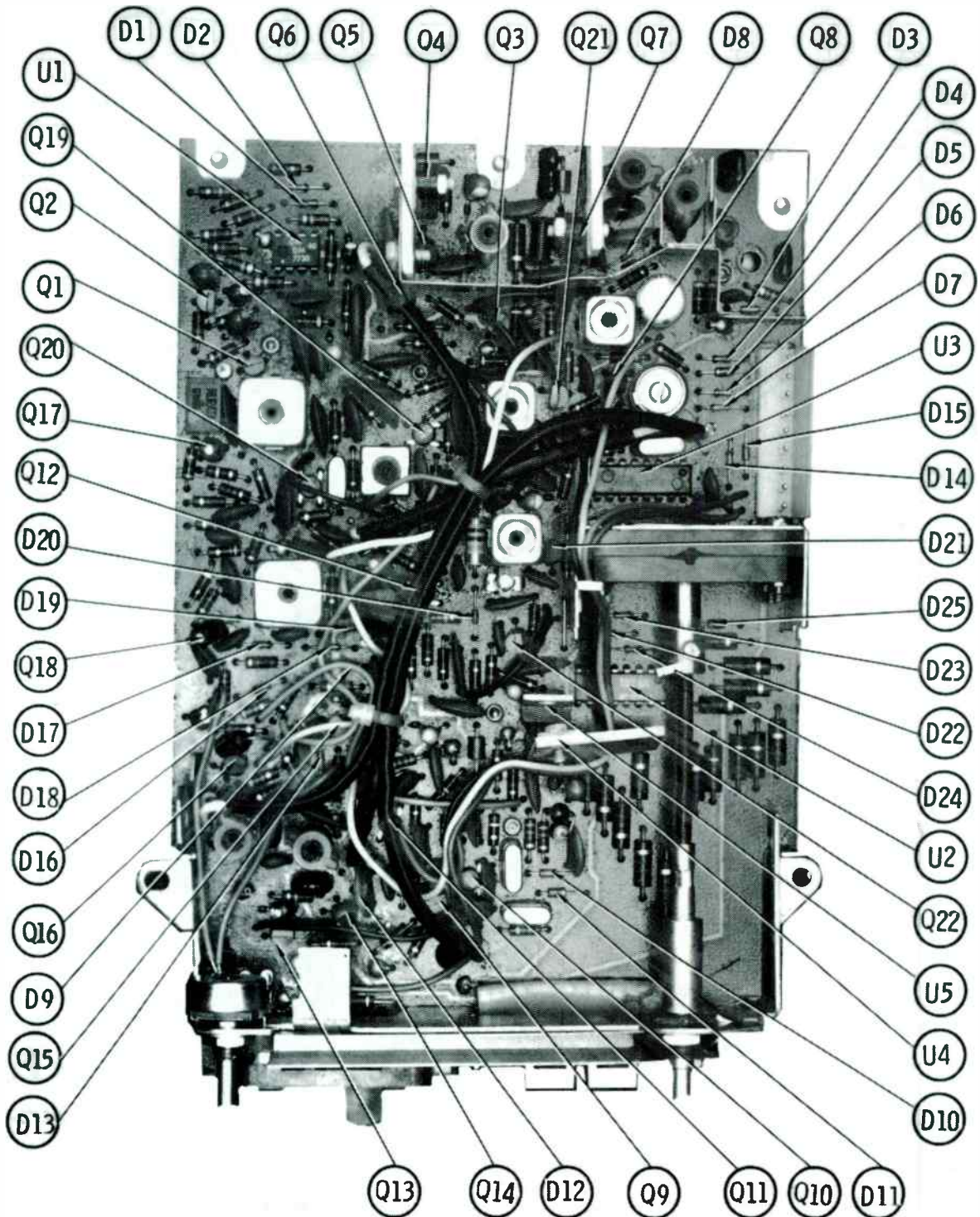


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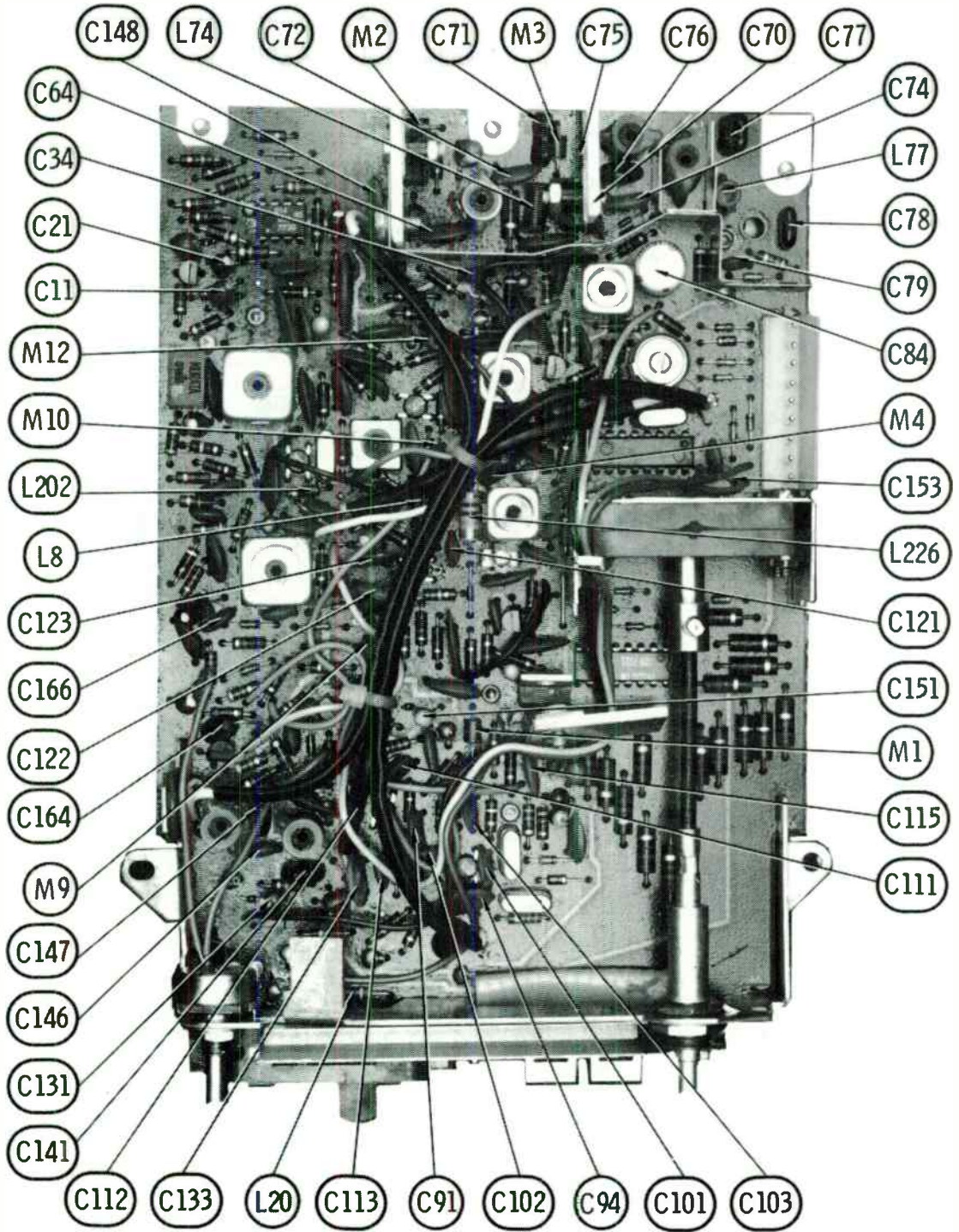


DELCO 1978 SERIES

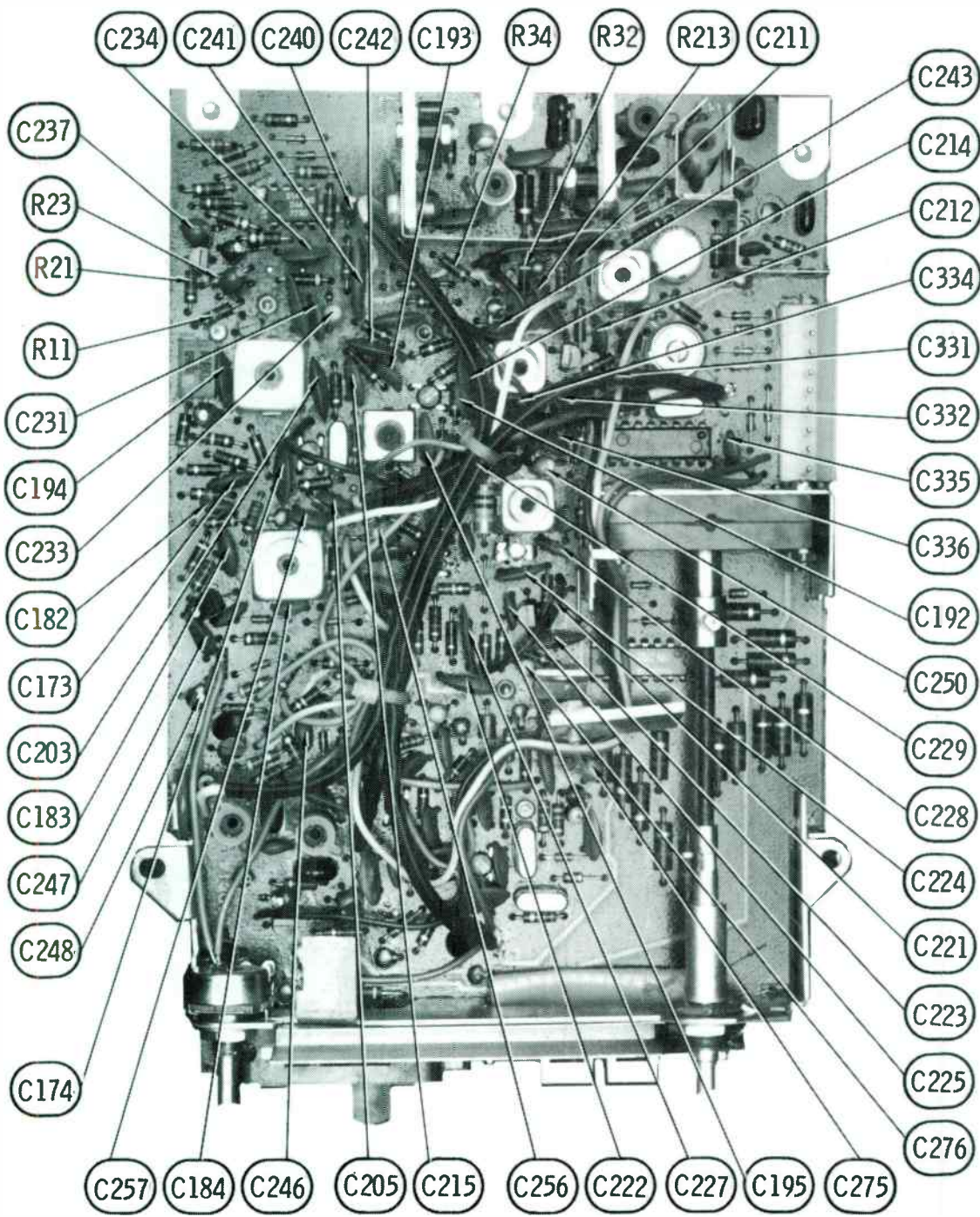
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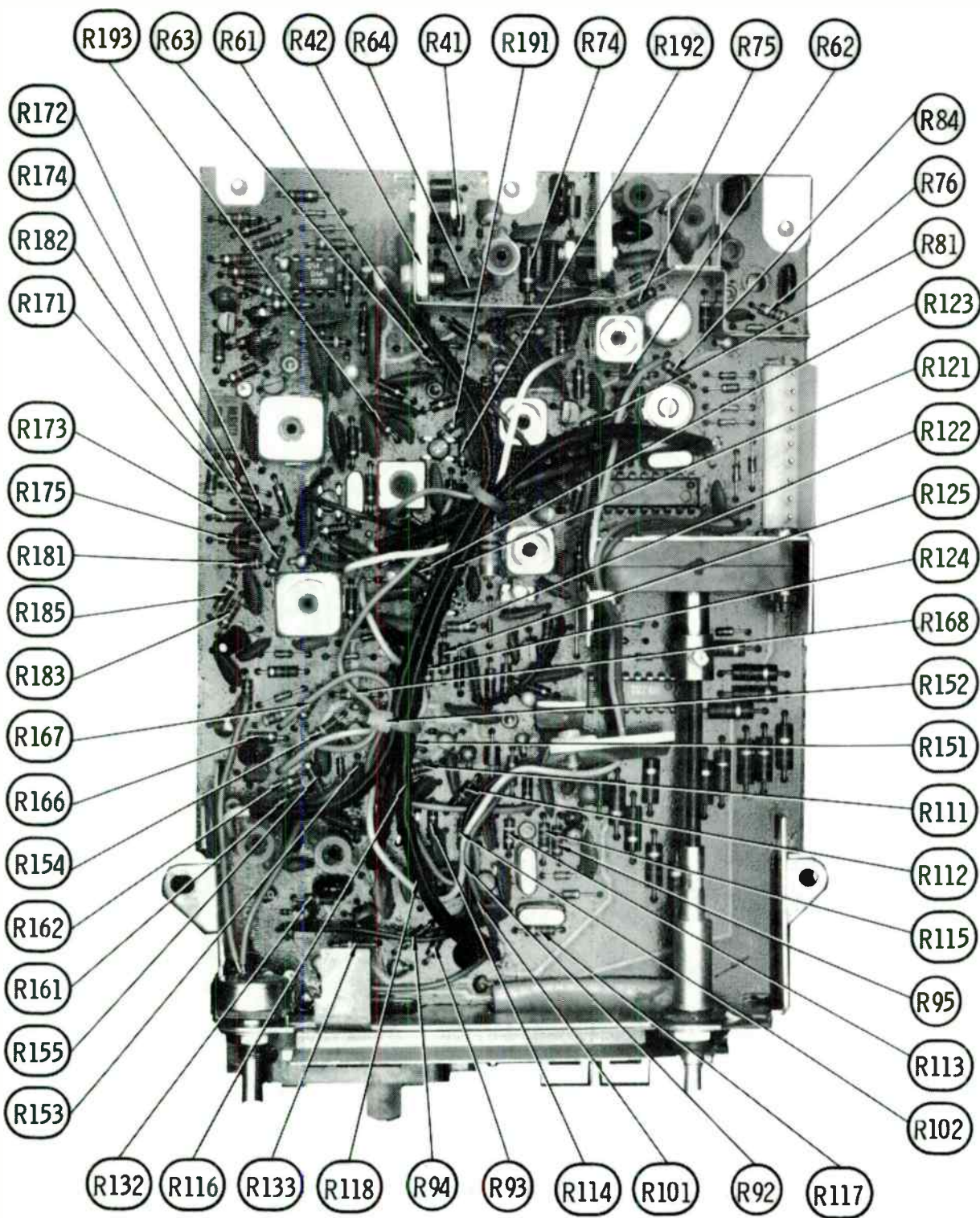
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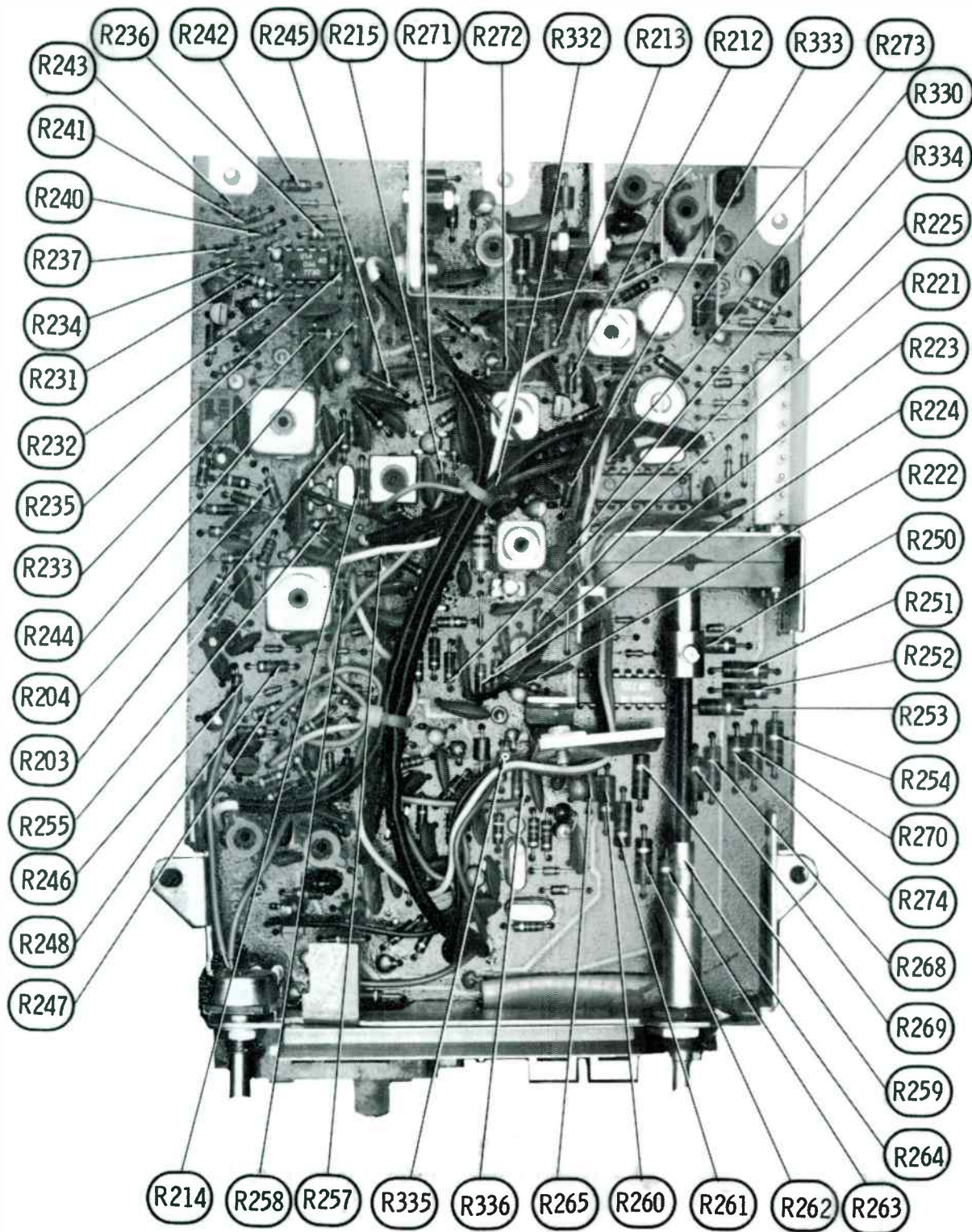
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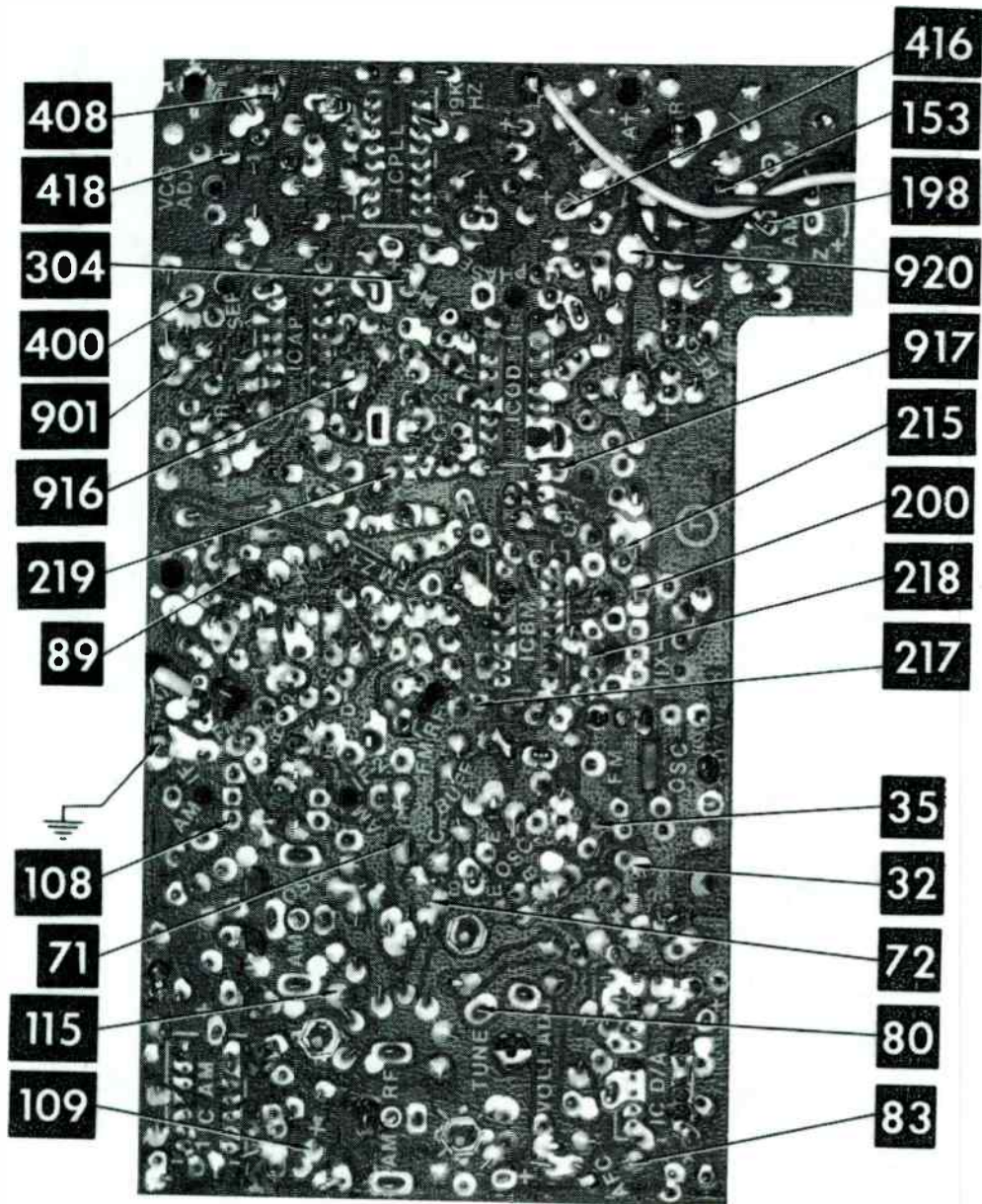
CB BOARD



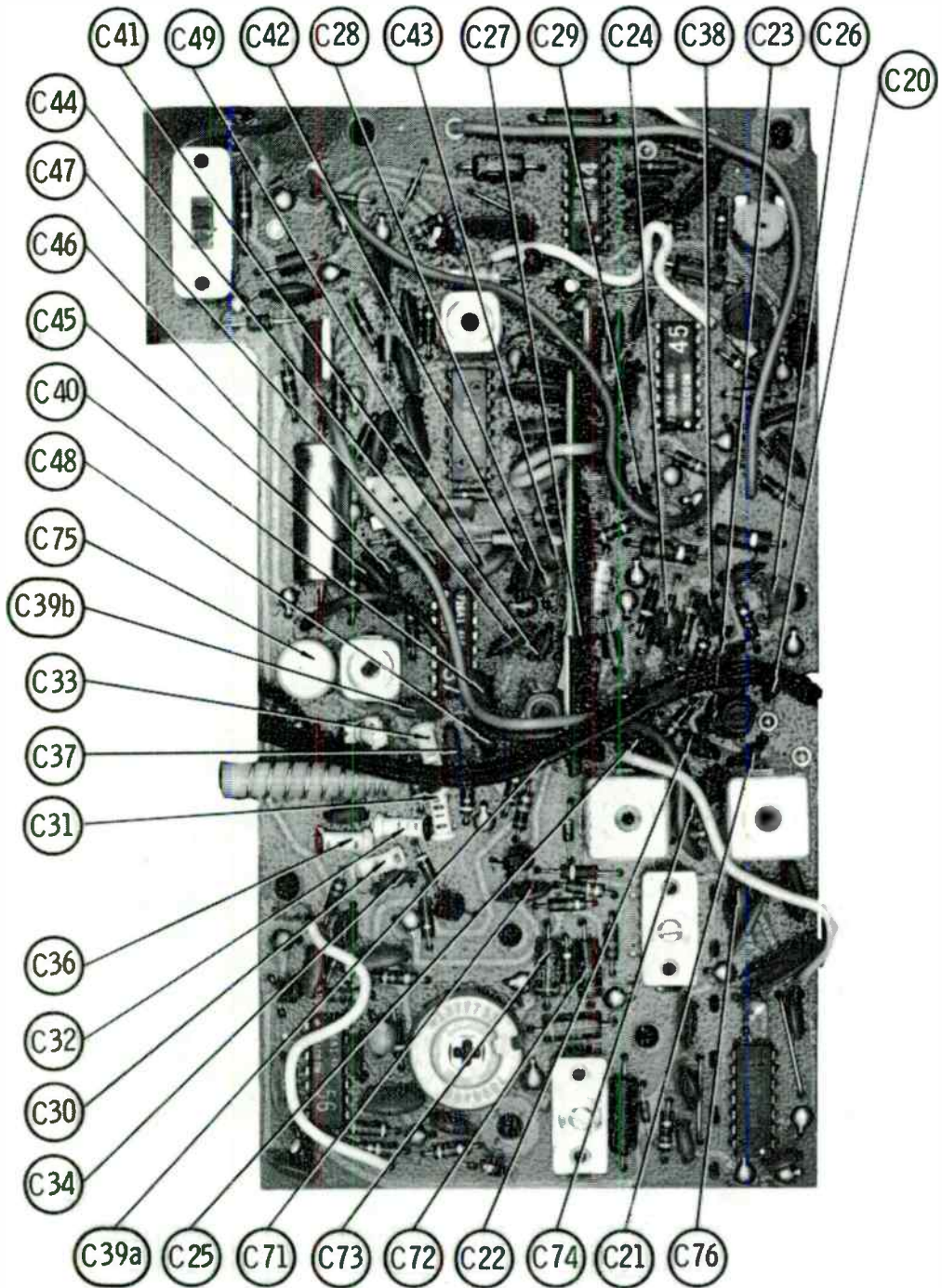
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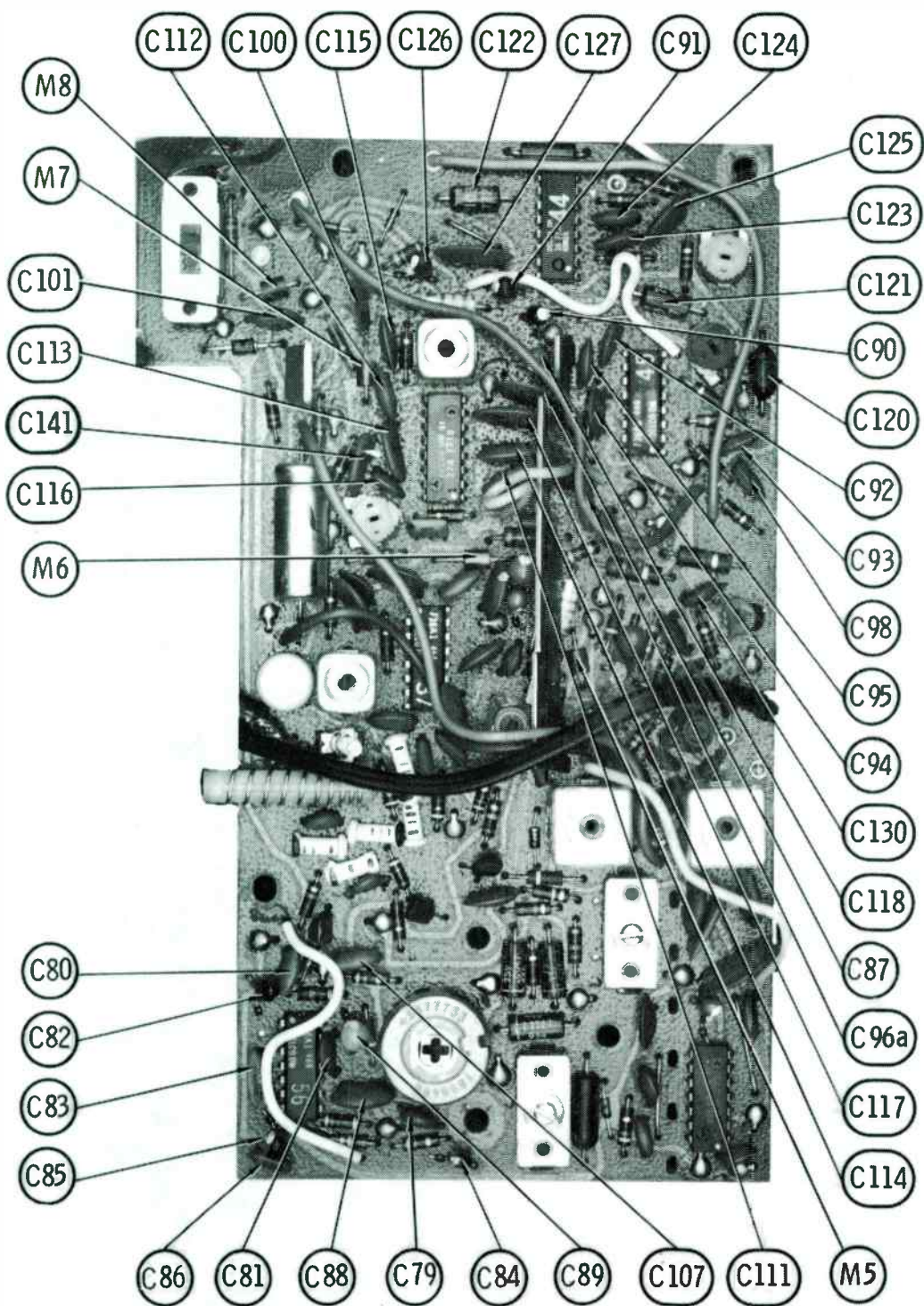
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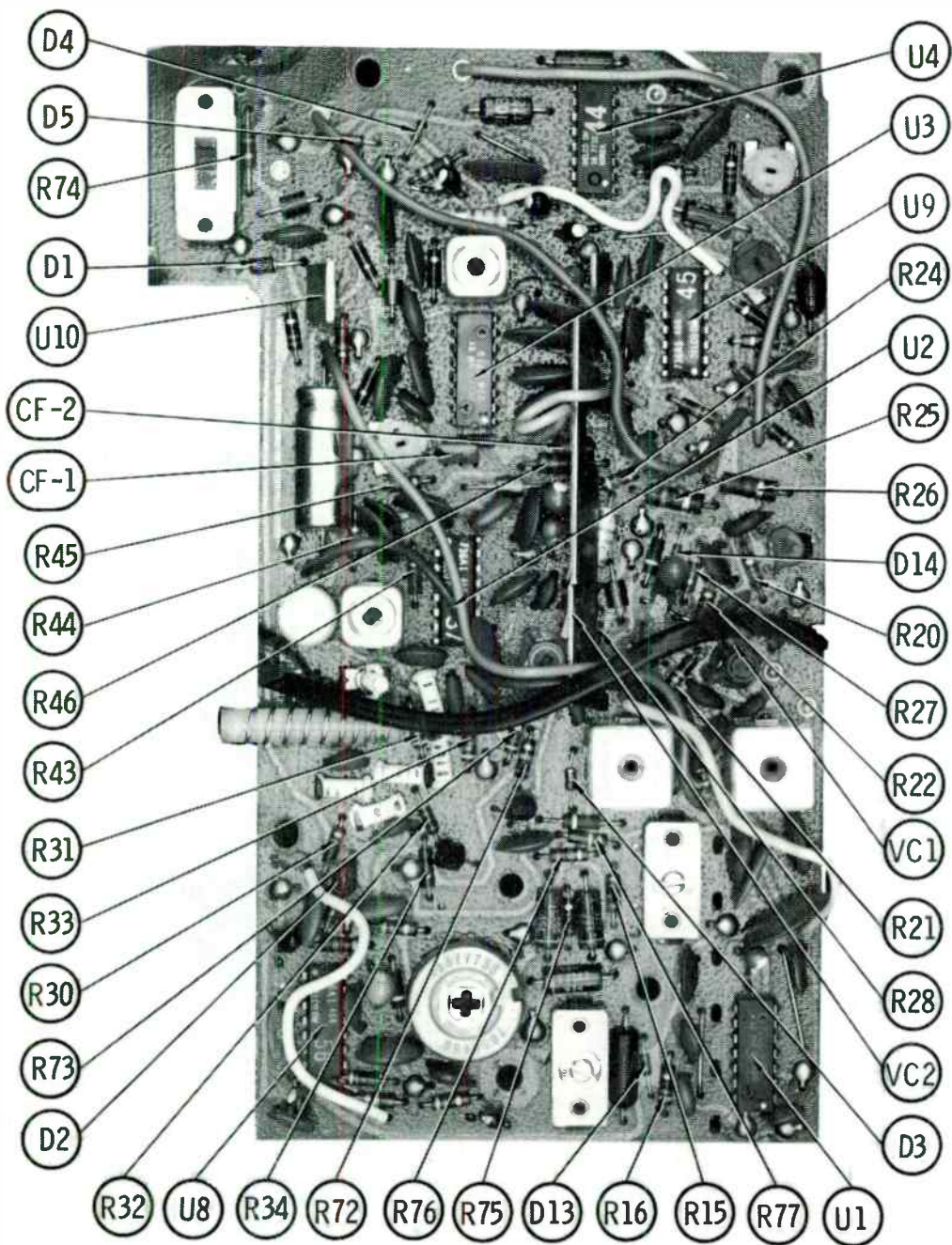
AM-FM BOARD



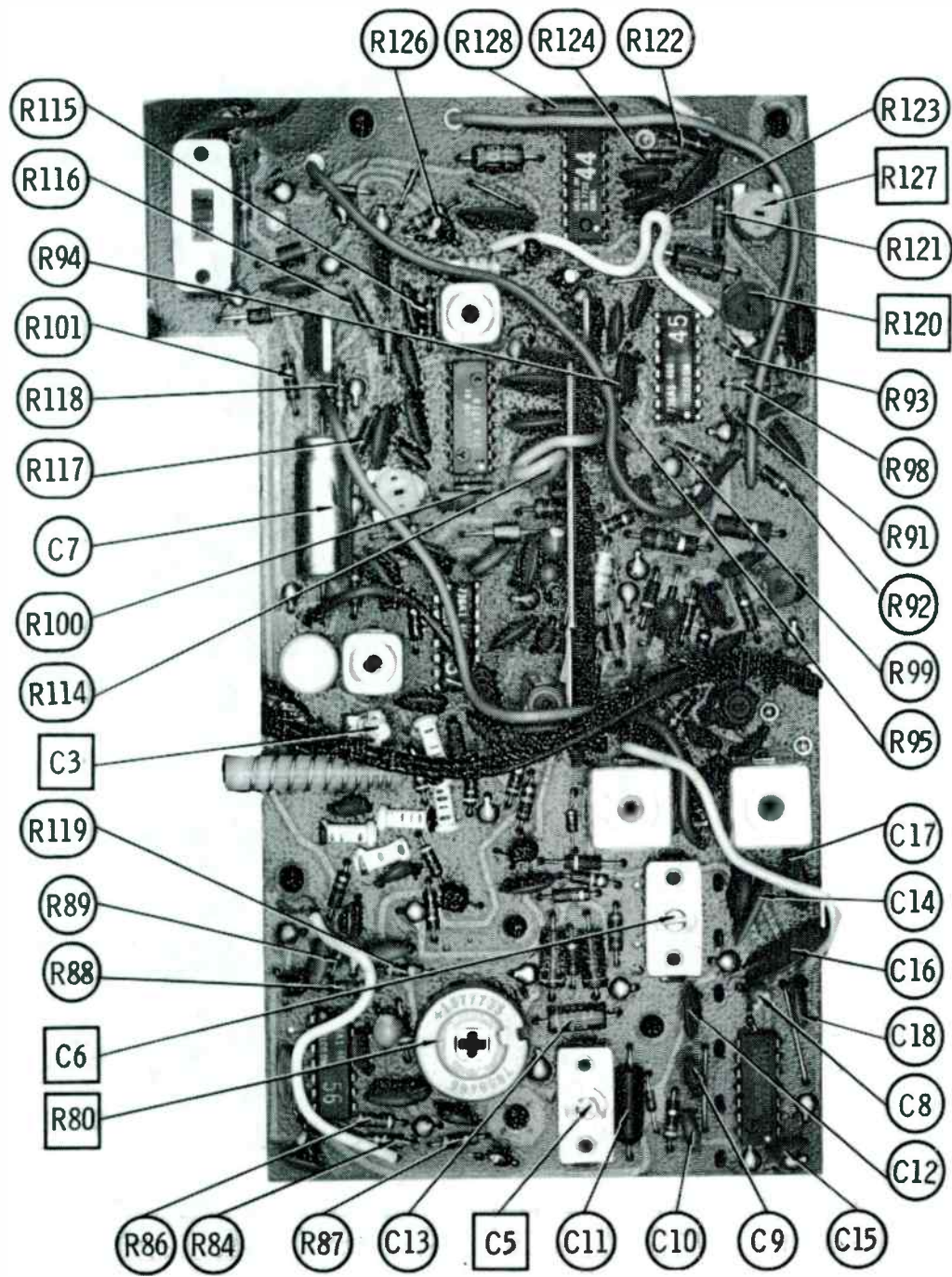
AM-FM BOARD



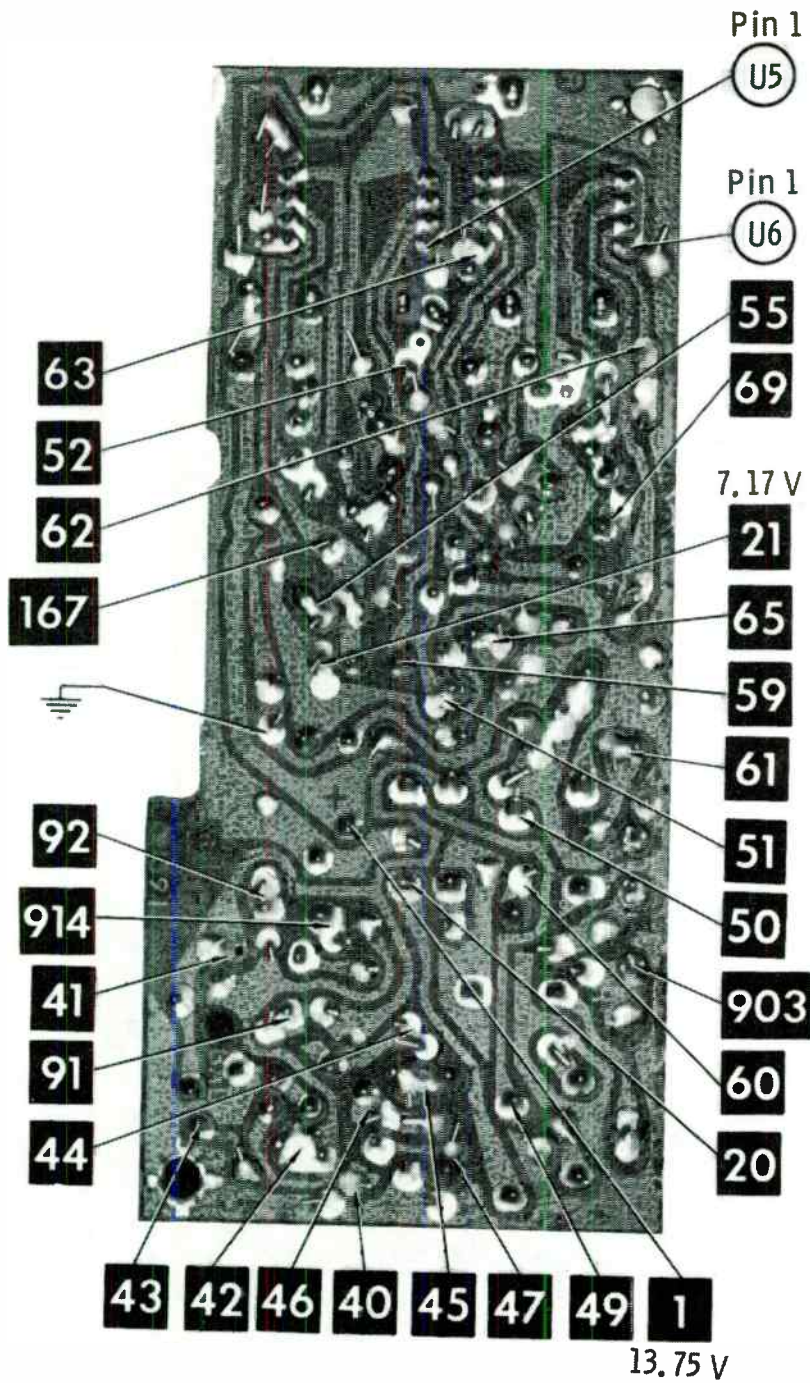
AM-FM BOARD



AM-FM BOARD

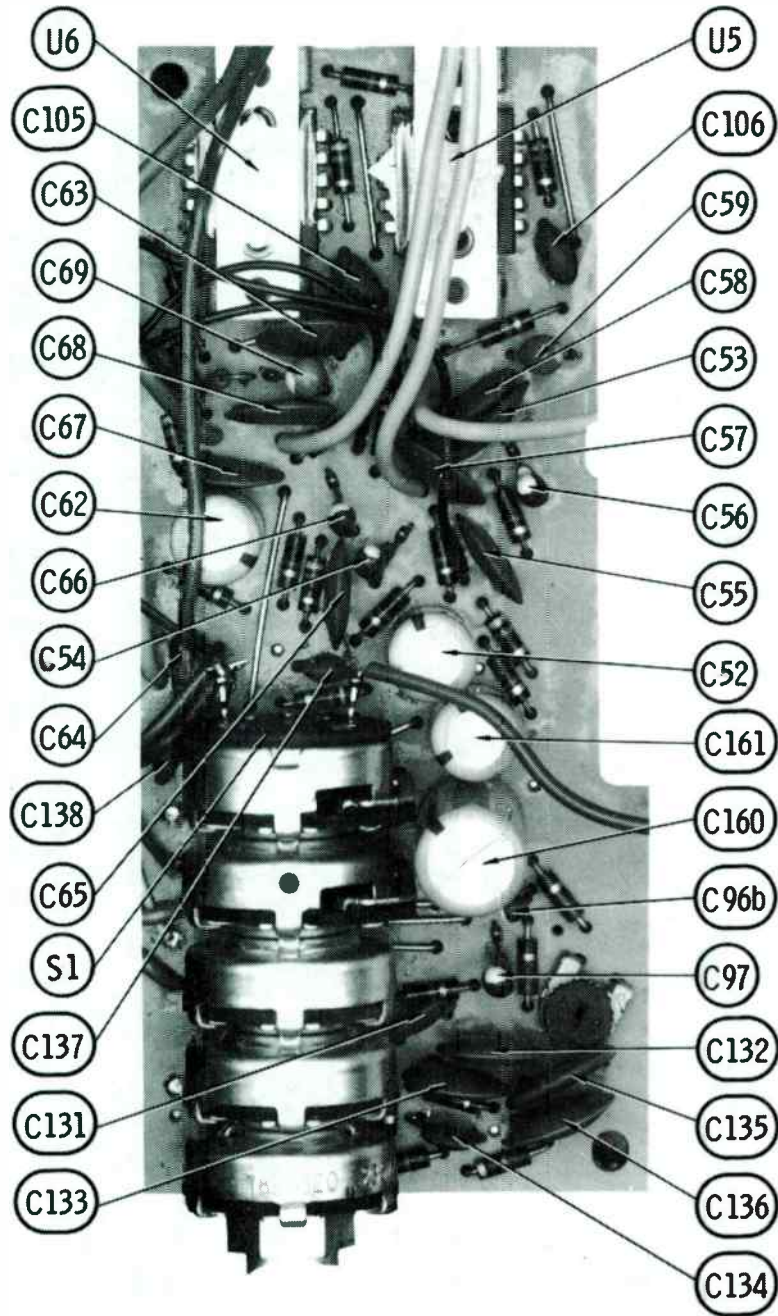


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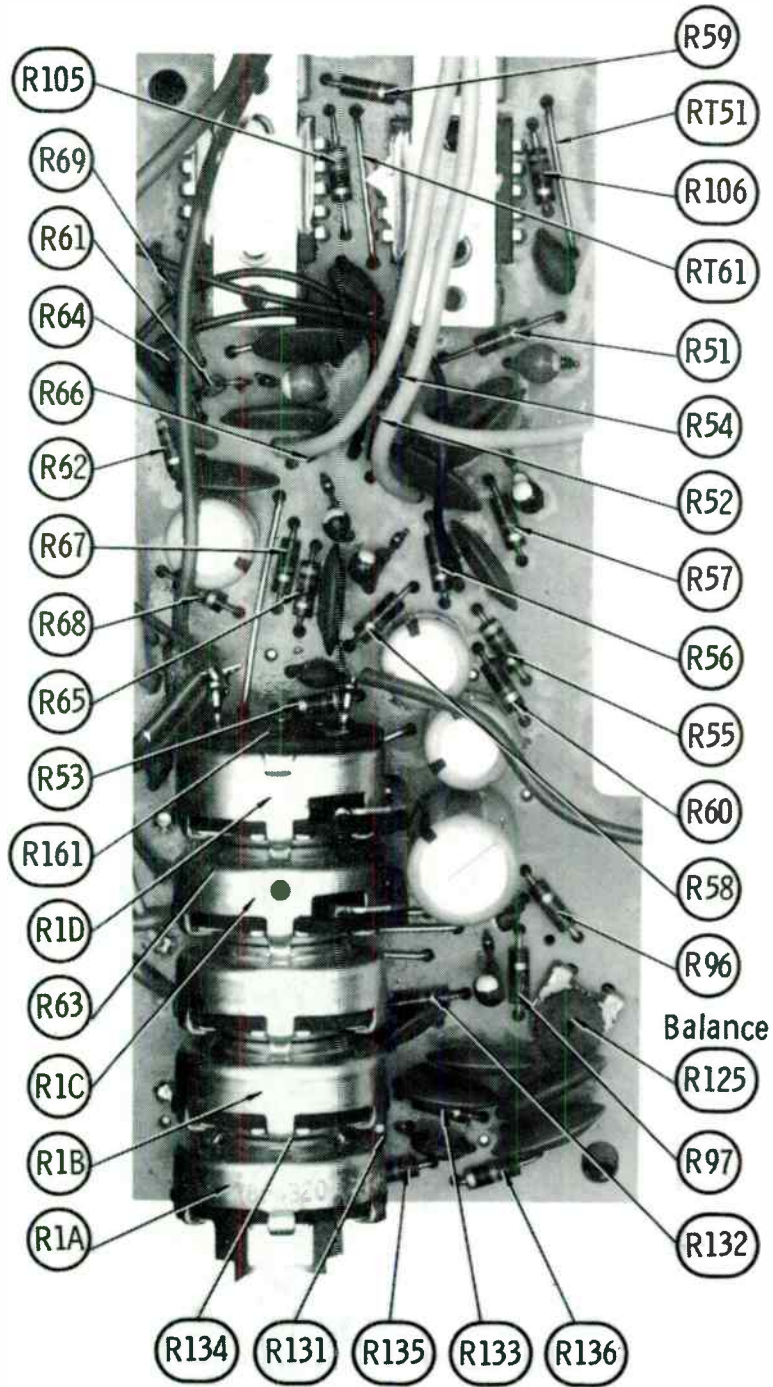


DELCO 1978 SERIES

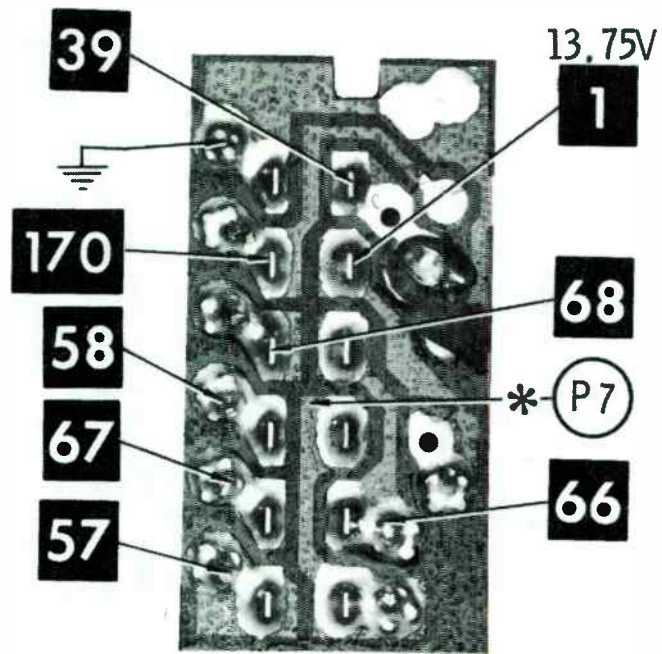
AUDIO BOARD



AUDIO BOARD

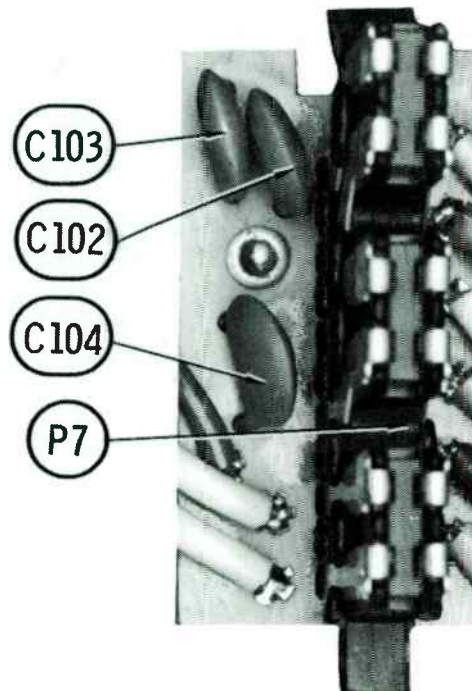


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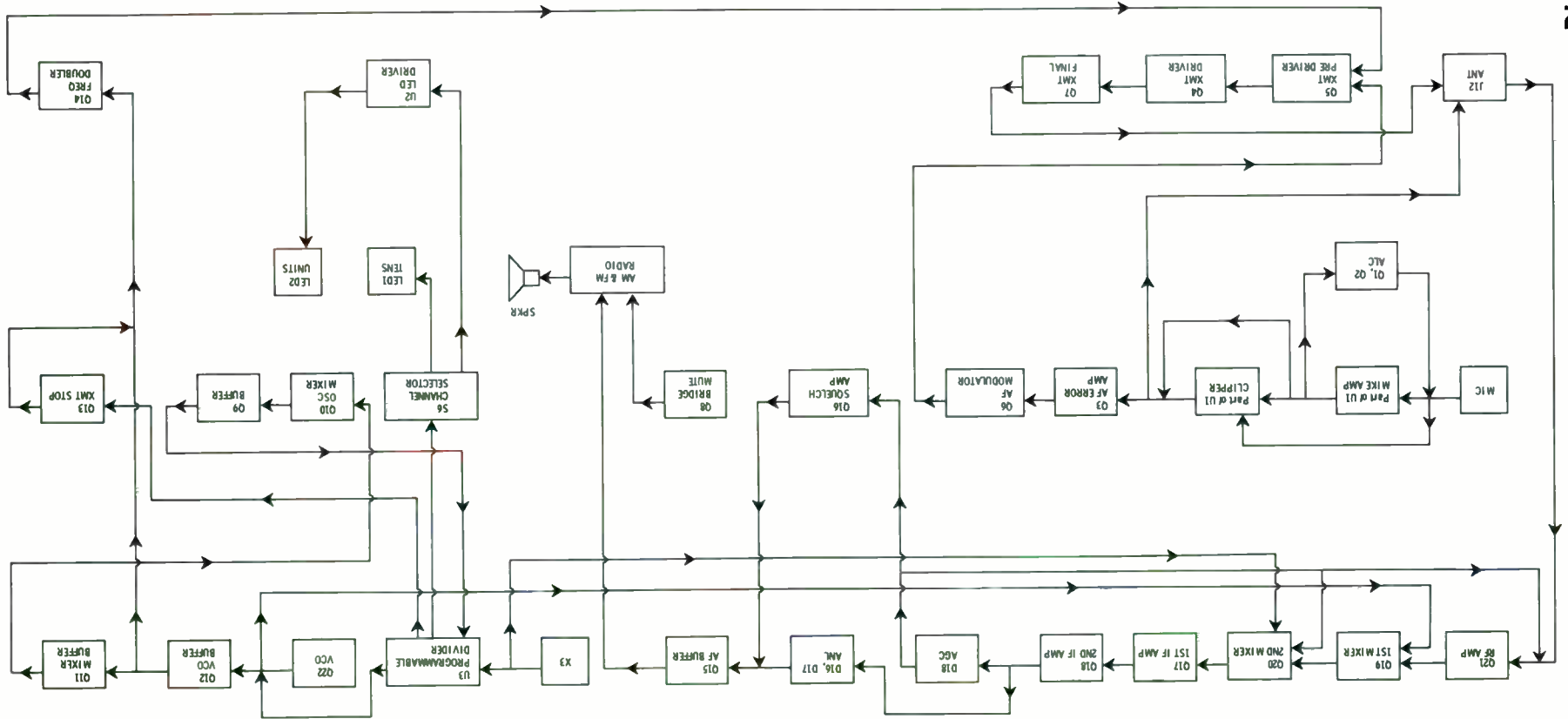


* Located on top of board

PLUG BOARD

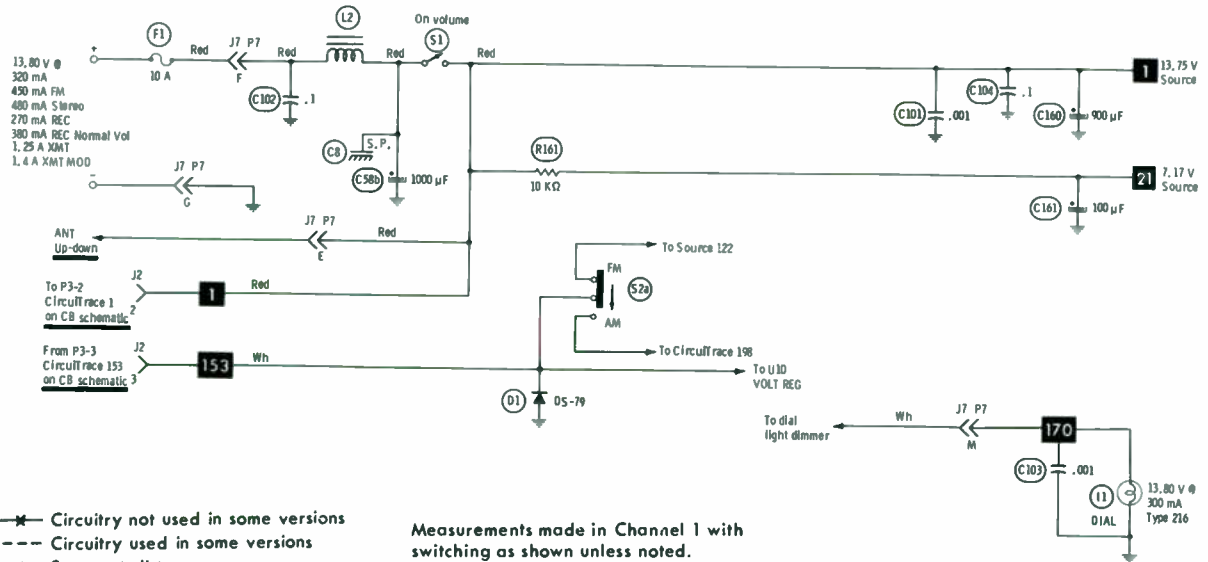
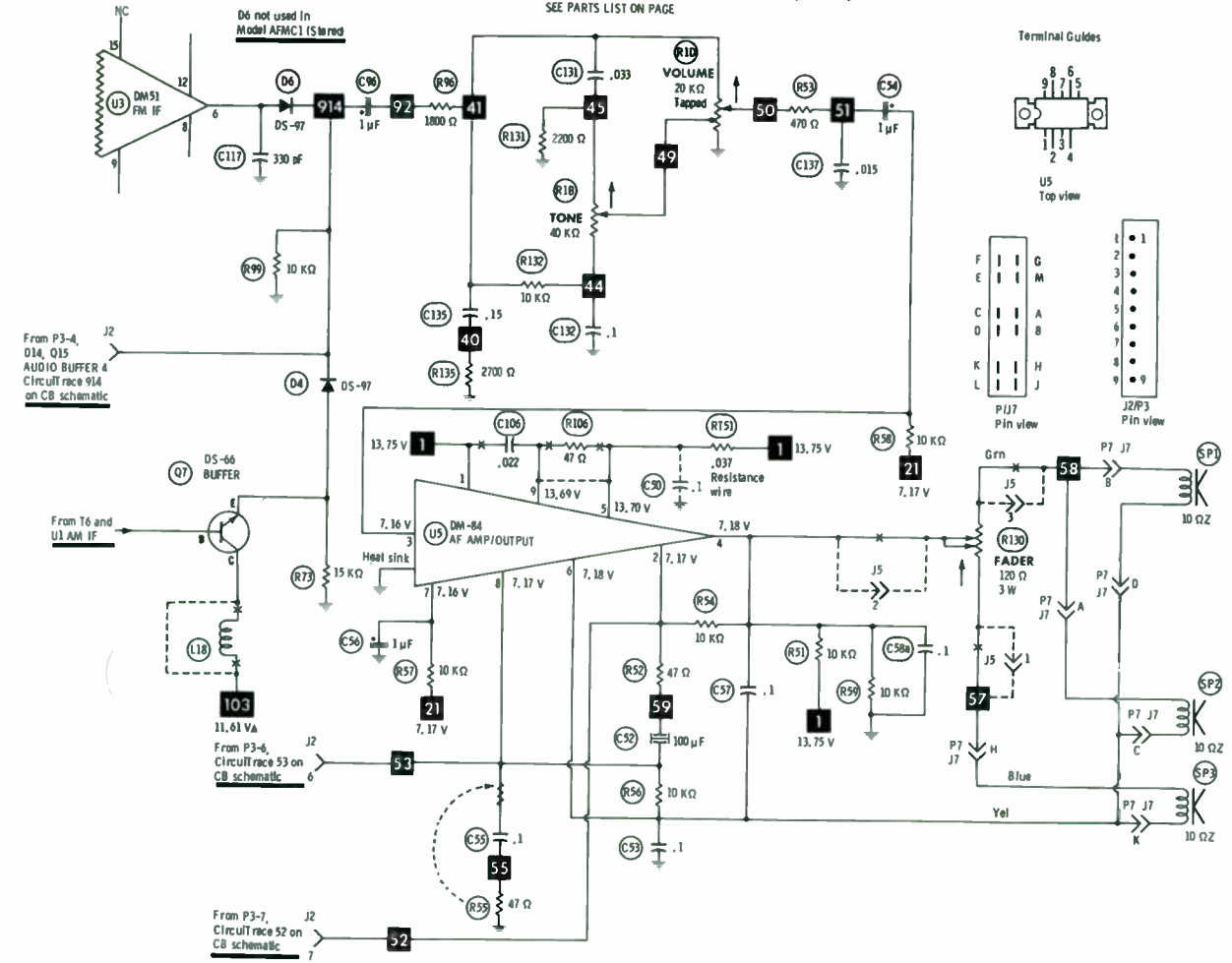


CONNECTOR BOARD



ALTERNATE CIRCUITS FOR MODEL 80BFPC1 (MONO)

SEE PARTS LIST ON PAGE



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

Measurements made in Channel 1 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, 5% unless noted. Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE**

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CB PARTS LIST AND DESCRIPTION

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

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

WIRING DATA

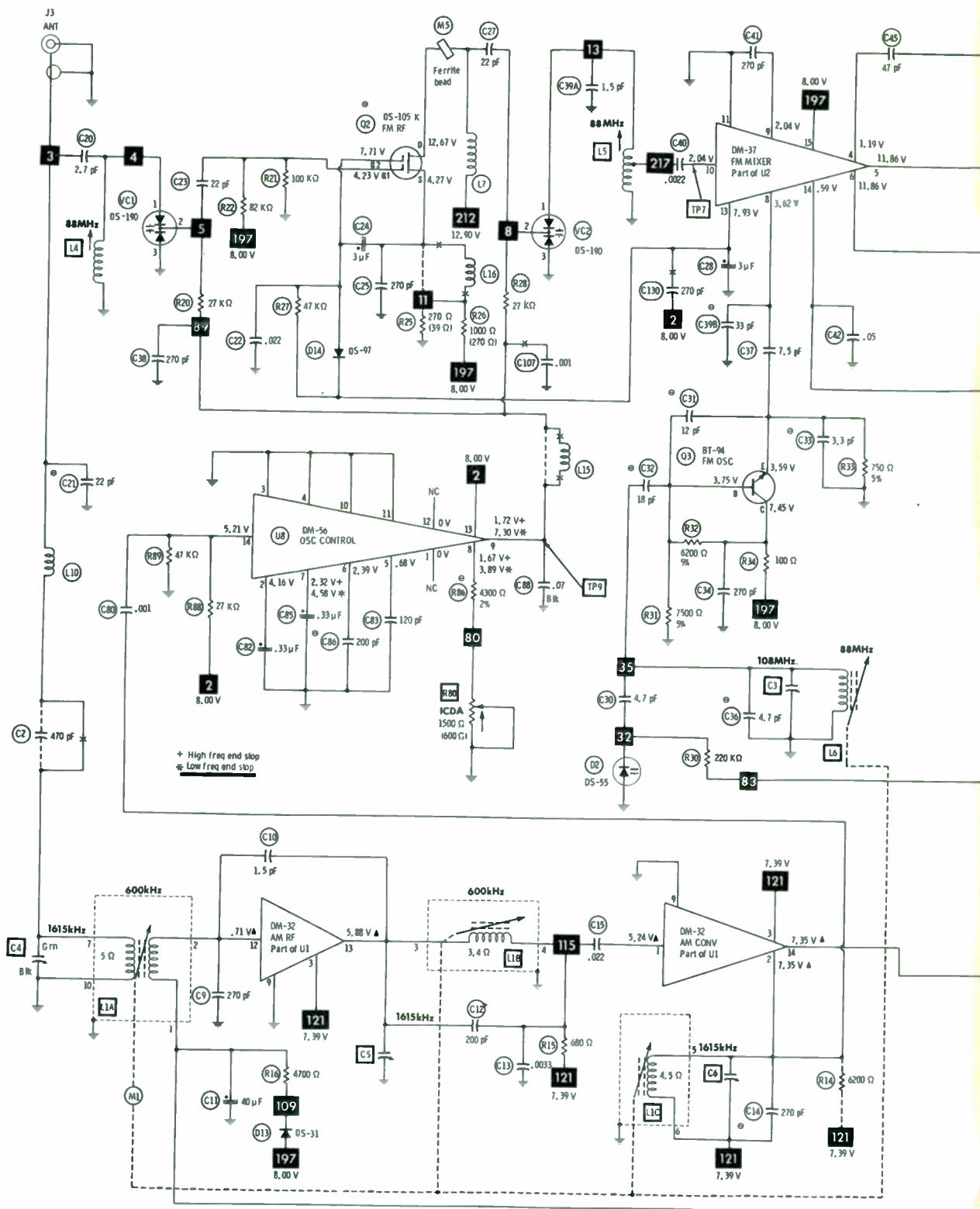
General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded) 23AWG	BELDEN No. 9471 (5')
(braided)	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
Bonding Strap	BELDEN No. 8672	28AWG	BELDEN No. 9466 (6')
AC Power Cord	(6') BELDEN No. 17106	31AWG	BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	4-conductor (unshielded) 23AWG	BELDEN No. 8415 (6')
		5-conductor (1 shielded) 28AWG	BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

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.
CB TRANSCEIVER												
D1	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D2	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D3	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D4	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D5	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D6	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D7	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D8	DS-113		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148		WEP925
D9	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D10	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D11	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D12	DS-113		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148		WEP925
D13	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D14	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D15	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D16	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D17	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D18	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D19	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D20	DS-113		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148		WEP925
D21	DS-114											
D22	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D23	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D24	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
D25	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177			WEP1062
Q1	8R67		GE-20	PTC136	HEPS0015	RE 12	SK3124	RT-102	ECG123A			WEP736
	DS-66		GE-20	PTC136	HEPS0015	RE 12	SK3124	RT-102	ECG123A			ZEN-128
Q2	8R67		GE-20	PTC136	HEPS0015	RE 12	SK3124	RT-102	ECG123A			WEP736
	DS-66		GE-20	PTC136	HEPS0015	RE 12	SK3124	RT-102	ECG123A			ZEN-128
Q3	8R67		GE-20	PTC136	HEPS0015	RE 12	SK3124	RT-102	ECG123A			WEP736
	DS-66		GE-20	PTC136	HEPS0015	RE 12	SK3124	RT-102	ECG123A			ZEN-128
Q4	DS-111											
Q5	MPS2369		GE-11*	PTC101*	HEPS0025*	RE 9*	SK3039*	RT-108A*	ECG107*			WEP535*
	DS-78		GE-39*	PTC115*	HEPS0011*	RE 28*	SK3018*	RT-113*	ECG161*			121-522*
Q6	833		GE-82	PTC141	HEPS0019	RE 26	SK3466	RT-115	ECG159			121-883*
	DS-83		GE-82	PTC141	HEPS0012	RE 26	SK3025	RT-103A	ECG159			ZEN-106
Q7	DS-112											
Q8	DS-66		GE-20	PTC136	HEPS0015	RE 12	SK3124	RT-102	ECG123A			WEP736
Q9	8T82		GE-82*	PTC103*	HEPS0013*	RE 26*	SK3118*	RT-303*	ECG159*			ZEN-128
	DS-82		GE-82*	PTC103*	HEPS0013*	RE 26*	SK3118*	RT-303*	ECG159*			WEP62*
Q10	DS-106		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222			121-879*
Q11	DS-102		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222			WEP905
Q12	DS-102		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222			121-826
Q13	8R67		GE-20	PTC136	HEPS0015	RE 12	SK3124	RT-102	ECG123A			WEP905
	DS-66		GE-20	PTC136	HEPS0015	RE 12	SK3124	RT-102	ECG123A			WEP736
Q14	MPS2369		GE-11*	PTC101*	HEPS0025*	RE 9*	SK3039*	RT-108A*	ECG107*			ZEN-128
	DS-781		GE-11*	PTC101*	HEPS0025*	RE 9*	SK3039*	RT-108A*	ECG107*			WEP535*
Q15	8R67		GE-20	PTC136	HEPS0015	RE 12	SK3124	RT-102	ECG123A			121-522*
	DS-66		GE-20	PTC136	HEPS0015	RE 12	SK3124	RT-102	ECG123A			WEP736
Q16	DS-76		GE-20	PTC121	HEPS0014	RE 12	SK3124	RT-102	ECG123A			ZEN-128
Q17	DS-85		GE-39	PTC121	HEPS0014	RE 28	SK3018	RT-113	ECG161			WEP736
	DS-74		GE-61	PTC115	HEPS0016	RE 9	SK3018	RT-108	ECG107			ZEN-100
Q18	DS-85		GE-39	PTC121	HEPS0014	RE 28	SK3018	RT-113	ECG161			WEP63
	DS-74		GE-61	PTC115	HEPS0016	RE 9	SK3018	RT-108	ECG107			121-883
Q19	DS-106		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222			WEP535
Q20	DS-106		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222			WEP905
Q21	8R78		GE-11*	PTC101*	HEPS0025*	RE 9*	SK3039*	RT-108A*	ECG107*			121-826
	DS-78		GE-39*	PTC115*	HEPS0011*	RE 28*	SK3018*	RT-113*	ECG161*			WEP535*
Q22	8T82		GE-82*	PTC103*	HEPS0013*	RE 26*	SK3118*	RT-303*	ECG159*			121-522*
	DS-82		GE-82*	PTC103*	HEPS0013*	RE 26*	SK3118*	RT-303*	ECG159*			WEP63*
U1	DM-40											121-883*
U2	DM-80											121-879*
U3	DM-83											
U4	DM-92											
U5	DM-94											

* Lead configuration may vary from original.

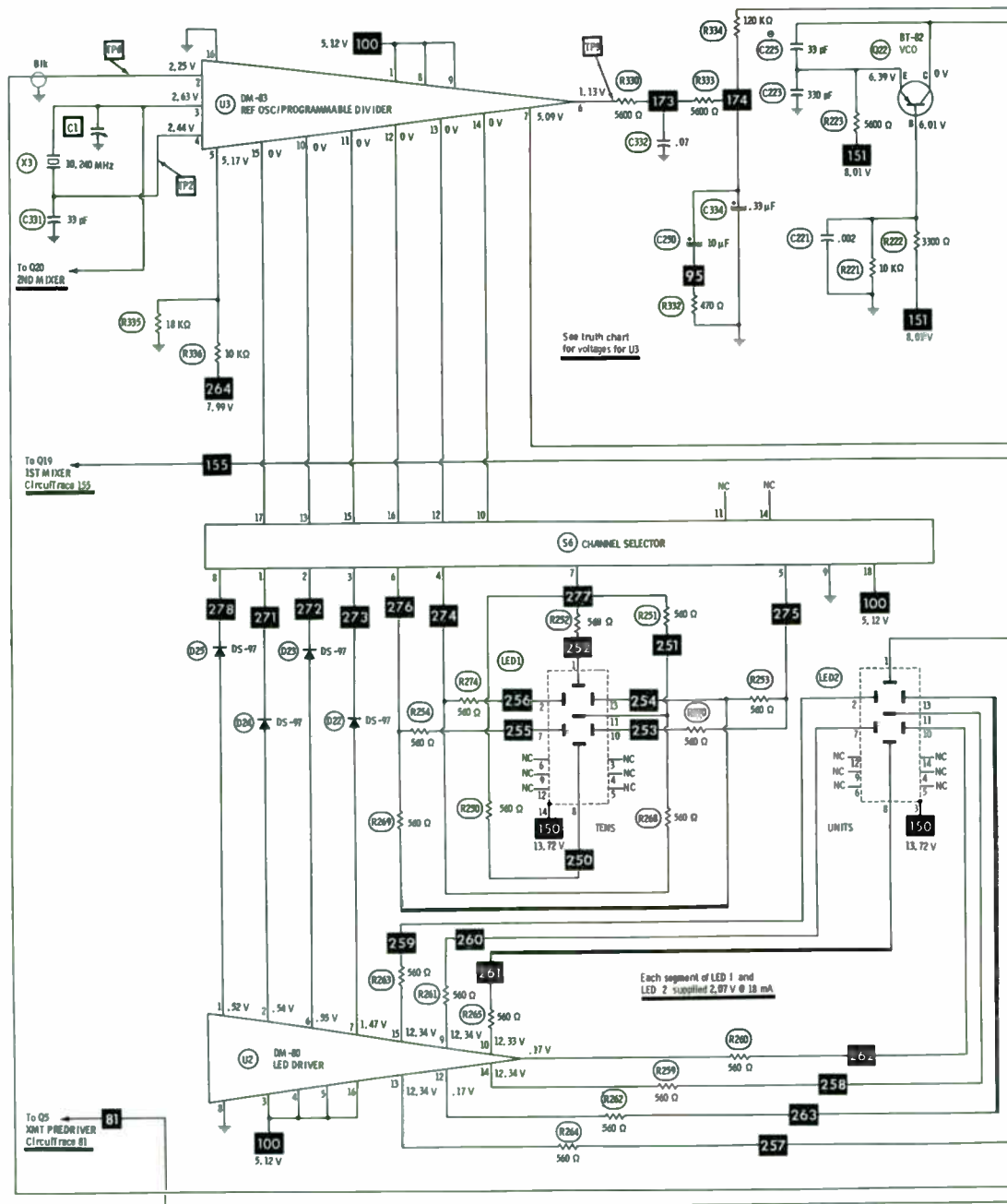
DELCO 1978 SERIES



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

Measurements made in Channel 1 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, 5% unless noted. Value in () used in some versions.

A PHOTOFACIT STANDARD NOTATION SCHEMATIC WITH **CIRCUITRACE**
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- Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ⊞ Chassis
- ▽ Common tie point

Measurements made in Channel 1 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, 5% unless noted. Value () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC WITH **CIRCUITRACE**
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CB PARTS LIST AND DESCRIPTION (CONTINUED)

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

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ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C11	15 6V	7936361		TDC156M020FL	QDT1-73	SD20-159
C21	1 10V	7312297		TDC105M035EL		SD35-19
C84	100 16V NP	9340977		TCN425A		TVAN-1207.1
C131	1 10V	7312297		TDC105MD35EL		SD35-19
C151	4.7 10V	7311575		TDC475M010EL	QDT1-48	SD10-4R79
C161	.33					
C164	1 20V	7936051		TDC105M035EL		SD35-19
C198	4.7 10V	7311575		TDC475M010EL	QDT1-48	SD10-4R79
C233	4.7 10V	7311575		TDC475M010EL	QDT1-48	SD10-4R79
C237	15 6V	7936361		TDC156M020FL	QDT1-73	SD20-159
C240	1 10V	7312297		TDC105M035EL		SD35-19
C248	1 10V	7312297		TDC105M035EL		SD35-19
C250	10 10V	7312285		TDC106M025FL	QDT1-64	SD25-109
C256	3 35V	7936359		TDC335M035FL		SD35-3R39
	15	7936361		TDC156M050GL	QDT1-75	SD50-159
C275	3 35V	7936359		TDC335M035FL		SD35-3R39
C276	4.7 10V	7311575		TDC475M010EL	QDT1-48	SD10-4R79
C334	.33 35V	9345618		TDC334M050EL	QDT1-14	SD50-R339

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALLAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1		9349278					
C34	.01 20%		DC-103	MGP01	TA110	QC2-141	TG-S10
C64	.0022 10%				GP222		10TS-D22
C7D	27 NPO 5%			CD19FD102J03	CN0427		10TCC-Q27
C71	.001 10%				SX210		MWC-102
C72	110 N180 5%	7297732					
C74	.0022 10%			CD19FD102J03	GP222		10TS-D22
C75	.001 10%			CD15FD361J03	SX210		MWC-102
C76	360			CD15FD391J03	SX336	QW1-40	MMA-361
C77	390 5%			CD19FD202J03	SX339	QW1-41	MMA-391
C78	.002 5%				SX220		MWC-202
C79	18 NPO 5%				CN0418		10TCC-Q18
C91	27 NPO 5%				CN0427		10TCC-Q27
	200		DTZ-200				10TCC-T20
C94	.1 20%		DC-104	MGP1	TA010	QC2-233	TG-P10
C101	33 NPO 5%		DTZ-33	NP033	CN0433		10TCC-Q33
C102	.001 10%		DD-102		GP210		10TS-D10
C103	91 N750 10%	16000335					
C111	.01 16V		UK16-103		MAG1611		HY-420
C112	3.3 NPO		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C113	.02		DC-203	MGP02	TA120	QC2-157	TG-S20
C115	.0022				GP222		10TS-D22
C121	18 NPO 5%		DD-271	GP270	GP327		10TS-T27
C122	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C123	.0022 10%				GP222		10TS-D22
C124	.01						
C133	.0022 10%				GP222		10TS-D22
C141	470 5%			CD15FD471J03	SX347	QW1-42	MMA-471
C146	18 NPO 5%				CN0418		10TCC-Q18
	22		DTZ-22	NP022	CN0422		10TCC-Q22
C147	470 5%			CD15FD471J03	SX347	QW1-42	MMA-471
C148	.0022 10%				GP222		10TS-D22
C153	.0022				GP222		10TS-D22
C166	.001 10%				GP210		10TS-D10
C173	.05 20% 16V		DD-102	UK50-503	MAG5015		
C174	.1 20% 16V		UK16-104		MAG1601		HY-650
C182	.02		DC-203	MGP02	TA120	QC2-157	TG-S20
C183	.05 20% 16V		UK50-503		MAG5015		
C184	150 10%		DTZ-150		CN0315		10TCC-T15
C192	.001 10%		DD-102		GP210		10TS-D10
C193	.02		DC-203	MGP02	TA120	QC2-157	TG-S20
C194	.1 20% 16V		UK16-104		MAG1601		HY-650
C195	.0022 10%				GP222		10TS-D22
C199	.05 20% 16V				MAG5015		
C203	.1 20%		UK50-503		MAG1601		HY-650
C205	.001 10%		DD-102		GP210		10TS-D10
C211	.001 10%		DD-102		GP210		10TS-D10
C212	.001 10%		DD-102		GP210		10TS-D10
C213	.0047		DD-472		GP247		56A-D47
C214	.0047		DD-472	GP4700	GP247		56A-D47
C215	.05 20%		DC-503	MGP05	TA150	QC2-207	TG-S50
C221	.002 20%		DD-202	GP2000	GP220	QC2-93	56A-D20
C222	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C223	330 N2200 5%	7314193			*		10TCV-T33
C224	33 N150 10%				*		10TCP-Q33
C225	33 N470 5%				*		10TCT-Q33

CB PARTS LIST AND DESCRIPTION (CONTINUED)

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

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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	
C226	.0047	16000335	DD-472	GP4700	GP247	QC2-93	5GA-D47	
C227	91 N750 10%							10TS-D22
C228	.0022 10%				GP222			10TS-D22
C229	.0022 10%				GP222			5GA-D20
C231	.0022 10%				GP220			10TCU-T27
C234	.002 20%			DD-202	GP2000			HY-650
C241	.3 20% 10V			UK16-104				HY-420
C242	.1 20% 16V			UK16-103				HY-420
C243	.01 20% 16V			UK16-103				5GA-D20
C246	.01 20% 16V			DD-202	GP2000			10TS-D10
C247	.002 20%		DD-102					
C255	.001		UK50-503					
C257	.05 20% 16V		DTZ-33	NP033				
C331	33 NPO 5%		UK16-683			10TCC-Q33		
C332	.07 16V		DC-203	MGP02				
C335	.02		DC-103	MGP01				
C336	.01				TA120	QC2-157		
					TA110	QC2-141		
						TG-S20		
						TG-S10		

*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.	MALLORY PART No.	TRW PART No.
R165	Squelch	10K	7898302			

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
R32	75K 2% 1/4W			R273	100K 2% 1/4W		
R272	11K 2% 1/4W		16001827				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L4	XMT Doubler (13.7025MHz)	16001828			
L5	XMT Doubler (13.5925MHz)	16001829			
L8	RF Choke				
L44	XMT Driver	16001454			
L74	RF Choke	7296856		4602	
L75	XMT Final (27MHz)	16C01131			
L76	P1 Filter (27MHz)	16002672			
L77	Antenna Loading	16C01453			
L202	RF Choke (33uH)	16C01839			
L226	RF Choke (47uH)	16C01838			
T1	Antenna Rec (27MHz)	16C01523			
T2	RF	16C01524			
T3	1st Mixer (10.695MHz)	16C01079			
T4	2nd Mixer (455kHz)	16C01076			
T5	IF (455kHz)	16C01525			
T6	VCO	16C01830			

DELCO 1978 SERIES

CB PARTS LIST AND DESCRIPTION (CONTINUED)

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

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MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
Mic		18-032	18-034	18-010		1	5	4	3	NC	2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	16001089	455kHz
J2	Jack	7898521	Audio Board (9 Pin)
J12	Jack	9340526	Antenna
LED1	LED	7895075	Channel Display (2.07V @ 18mA)
LED2	LED	7895075	Channel Display (2.07V @ 18mA)
S5	Switch	1600504	Radio/CB
S6	Switch	16000386	Channel Selector
XLF1	Filter	16001658	10.695MHz
X1	Crystal	16000419	12.552MHz
X2	Crystal	16000425	14.350MHz
X3	Crystal	16000426	10.240MHz

AM-FM PARTS LIST AND DESCRIPTION

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

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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.	
AMFM (MPX) RADIO													
D1	DS-79		GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76	
D2	DS-55		GE-90		HEPR2503	REN 614		RT-262	ECG614		WEP200	ZEN-453	
D3	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062		
D4	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062		
D5	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062		
D13	DS-31		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062		
D14	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062		
Q2	DS-105		GE-FET-4	PTC182	HEPP2007	REN 222	SK3065	RT-181	ECG222		WEP905	121-826	
Q3	BT-94		GE-210*	PTC115*	HEPS0015*	RE 13*	SK3124*	RT-108A*	ECG123A*		WEP736		
	DS-94		GE-210*	PTC115*	HEPS0015*	RE 13*	SK3124*	RT-108A*	ECG123A*		WEP736		
Q7	DS-66		GE-20	PTC136	HEPS0015*	RE 12	SK3124	RT-102	ECG123A		WEP736	ZEN-128	
U1	DM-32		GEIC-215	PTC734		RE 304-IC	SK3171	TVCM-19	ECG744		WEP2022		
U2	DM-37												
U3	DM-51		GEIC-229	PTC767		RE 322-IC	SK3147	TVCM-39	ECG788				
U4	DM-44		GEIC-214	PTC729		RE 317-IC	SK3172	TVCM-29	ECG743		WEP2021		
U5	DM-84												
U6	DM-84												
U8	DM-56												
U9	DM-45												
U10	DM-33												
VC1	DS-190												
VC2	DS-190												

* Lead configuration may vary from original.

DELCO 1978 SERIES

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	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 (1)		TDC335M015FL	QDT1-41	SD15-3R39
C11	40 6V	7298555		TDC476M006EL	QDT1-97	SD6-479
C24	3 35V	7936359		TDC335M035FL		SD35-3R39
C28	3 10V			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
C62	100 16V NP	9349947		TCN425A*		TVAN-1207.1*
C64	1 10V	7930782		TDC105M035EL		SD35-19
C66	1 10V	7936365		TDC105M035EL		SD35-19
C69	3 35V	7936359		TDC335M035FL		SD35-3R39
C75A	40 16V NP	9340269		TCN1540*		TVAN-1413.1*
C75B	40					
C82	.33 35V	7936748		TDC334M050EL	QDT1-14	SD50-R339
C84	.33 35V	7936748		TDC334M050EL	QDT1-14	SD50-R339
C85	.33 35V			TDC334M050EL	QDT1-14	SD50-R339
C89	10 10V			TDC106M025FL	QDT1-64	SD25-109
C90	.33 35V			TDC334M050EL	QDT1-14	SD50-R339
C91	.33 35V			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
C121	2 10V	7313127		TDC225M035FL		SD35-2R29
C122	2 10V	7313127		TDC225M035FL		SD35-2R29
C126	.33 35V			TDC334M050EL	QDT1-14	SD50-R339
C160	900 16V NP	7898283		TCN415*		TVAN-1163.1*
C161	100 16V NP	9349947		TCN425A*		TVAN-1207.1*

* Axial replacement for radial device.

(1) Models 80AFMC1/81YFMC1 only.

AM-FM PARTS LIST AND DESCRIPTION (CONTINUED)

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

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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	
C3		9348419						
C4		9349556						
C5		7936524						
C6		7311368						
C9	270 10%		DD-271	GP270	GP327			10TS-T27
C10	1.5 NPO +.25		DTZ-1R5	NP01P5	CN0515			10TCC-V15
C12	200 N750 5%		DTN-200					10TCU-T20
C14	270 N220 5%	7896854			*	QW1-19		10TCR-T27
C15	.022 16V			C015E047QJ03	SX447			MMA-470
C16	.15 16V		UK16-154		MAG16015			HY-665
C17	.07 16V		UK16-683		MAG1618			HY-640
C18	56 NPO 5%				CN0456			10TCC-Q56
C20	2.7 NPO +.25		DTZ-2R2	NP02P2	CN0522			10TCC-V22
C21	22 NPO 5%		DTZ-22	NP022	CN0422			10TCC-Q22
C22	.022 25V		UK25-223					HY-725
C23	22 NPO 5%		DTZ-22	NP022	CN0422			10TCC-Q22
C25	270 10%		DD-271	GP270	GP327			10TS-T27
C26	270 10%		DD-271	GP270	GP327			10TS-T27
C27	22 NPO 5%		DTZ-22	NP022	CN0422			10TCC-Q22
C29	270 10%		DD-271	GP270	GP327			10TS-T27
C30	4.7 N330 5%	9341540			*			10TCS-V47
C31	12 N330 5%	7897766			*			10TCS-Q12
C32	18 NPO 10%	7897740			*			10TCS-Q18
C33	3.3 N330 5%	9341429			*			10TCS-V33
C34	270 10%		DD-271	GP270	GP327			10TS-T27
C36	4.7 N150 10%	7897765			*			10TCP-V47
C37	7.5 NPO				*			10TCC-V92
C38	270 10%		DD-271	GP270	GP327			10TS-T27
C39A	1.5 NPO .25		DTZ-1R5	NP01P5	CN0515			10TCC-V15
C39B	33 NPO 5%		DTZ-33	NP033	CN0433			10TCC-Q33
C40	.0022 10%				GP222			10TS-D22
C41	270 10%		DD-271	GP270	GP327			10TS-T27
C42	.05 16V		UK16-503		MAG1615			HY-635
C44	.05 16V		UK16-503		MAG1615			HY-635
C45	47 NPO 5%		DTZ-47	NP047	CN0447			10TCC-047
C46	10 NPO .5%		DTZ-10	NP010	CN0410			10TCC-Q10
C47	.05 16V		UK16-503		MAG1615			HY-635
C48	270		DD-271	GP270	GP327			10TS-T27
C49	.001 10%		DD-102		GP210			10TS-D10
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	.05 16V		UK16-503		MAG1615			HY-635
	.001				C019FD1023J03			MMC-102
C72	.0047 75V				C019FD472J03			MMC-472
C73	.0047 75V				C019FD472J03			MMC-472
C74	.07 16V		UK16-683		SX247			HY-640
C76	.07 16V		UK16-683		MAG1618			HY-640
C79	270 10%		DD-271	GP270	GP327			10TS-T27
C80	.001 10%		DD-102		GP210			10TS-D10
C81	470		DD-471	GP470	GP347			10TS-T47
C83	120 N80 5%							10TCU-T20
C86	200 N750 10%		DTN-200					10TS-D22
C87	.0022 10%				GP222			10TS-D22
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	.05 16V		UK16-503		MAG1615			HY-635
C98	.033 16V		UK16-333		MAG16133			HY-630
C100		7895980						
C101	.0028				GP227			10TS-027
C102	.001 10%		DD-102		GP210			10TS-D10
C103	.001 10%		DD-102		GP210			10TS-D10
C104	.001 10%		DD-102		GP210			10TS-D10
C105	.022 16V		UK16-223					HY-625
C106	.022 16V		UK16-223					HY-625
C107	.001 10%		DD-102		GP210			10TS-D10
C111	.05 16V		UK16-503		MAG1615			HY-635
C112		7895980						
C113		7896282						
C114	.1 16V		UK16-104		MAG1601			HY-650
C115	.05 16V		UK16-503		MAG1615			HY-635
C116	.001	9343449			*			10TCY-T33
C117	330 N2200 5%							MMC-222
C120	.0022				C019F0222J03			HY-630
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 2%	9341036						HY-630
C131	.033 16V		UK16-333		MAG16133			HY-650
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 10V				MAG12015			HY-365
C137	.01		DC-103	MG01	TA110	QC2-141		TG-510
C138	.01		UK50-103		MAG5011			
C141	.05 16V		UK16-503		MAG1615			HY-635

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

AM-FM 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	Tone-Right	40K	16002849 7895320			
R1B	Tone-Left	40K				
R1C	Volume-Right	20K Tap 10K				
R1D	Volume-Left/Power Switch	20K Tap 10K				
R80	ICDA ADJ	1500	7899466	WF-600	MR600F	110-600 U260R253B U260R253B U260R253B U260R502B
	ICDA ADJ	600	9348417			
R90	ICAP	20K	9349022			
R120	Separation	20K	9349022			
R125	Balance	20K	9349022			
R127	VCO	500Ω	9349445			
R130A	Fader-Left	120 2W	16002017			
R130B	Fader-Right	120 2W	7899383 (5)			

(5) Number on unit.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
R86	4300 2%		7897739	R128	21.5K 2%		9341039

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1A	AM Antenna	16082369 (1)			(1) All part of ganged tuning block. (2) Ganged to (1), coil mounted on radio board.
L1B	AM RF	16082369 (1)			
L1C	AM Converter	16002369 (1)			
L4	FM Antenna (88MHz)	9348413			
L5	FM RF (88MHz)	9348414			
L6	FM Osc	7897878 (2)			
L7	RF Choke	7934553 (2)			
L10	RF Choke				
L11	RF Choke				
L15	RF Choke				
L16	RF Choke				
L18	RF Choke				
T1	FM Mixer (10.7MHz)	9346544			
T4	FM IF (10.7MHz)	9346543			
T5	AM Conv. (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	1.4A	.184	.35mH	7302543			

AM-FM PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFRG. PART No.	QUAM PART No.	
	3 1/2 PM, 10 Ohms 3 1/2 PM, 10 Ohms 3 1/2 PM, 10 Ohms	16001981 7895000 16000680		FRONT Malibu LeMans Century, Cutlass
	6 X 9 PM, 10 Ohms (Deep Basket) 4 X 10 PM, 10 Ohms	9348870 7898980		REAR Century, Cutlass, LeMans, Malibu Century, LeMans, Malibu Station Wagons

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		8USS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	10A Quick Acting			AGC10		312010		

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	1223695	10.7MHz
CF2	Filter	1223695	10.7MHz
I2	LEO	DS-410	Stereo Indicator (211v @ 30mA)
J3	Jack	9340526	Antenna
J7	Jack	1224150	Connector (Package for Bench Hook up)
P7	Plug	12004451	Connector (Package for Bench Hook up)
S1	Switch		Power (Part of Volume Control)
S2	Switch	7898278	AM/FM

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

ITEM	PART No.	ITEM	PART No.
Escutcheon	16001170(1)	Rad ^o	
Escutcheon	16000627(3)	Lemans	16003001(1)(2)
Knob Pkg.		Malibu	16003003(1)(2)
Channel, Squelch	1224115	Monza/Sunbird	16001354(2)
Radio		Nova/Skylark	7899360(1)(2)
Bonneville/Catalina	7899432(2)	Truck	16002928(2)
Camaro	7895414(2)	Plate, T-Shuttle	9347929(1)(2)
Caprice/Impala	7899360	Plate, T-Shuttle	7898052(3)
Century	16002717(1)	Pushbutton	9349753(1)(2)
Cutlass	16002228(1)	Pushbutton	7897816(3)
Firebird	16002984(1)(2)	Bar, Slide	16001985(1)(2)
G-Van	16002934(2)	Bar, Slide	16001986(3)

(1) Model 80AFMC1 (2) Model 80BFPC1 (3) Model 81YFMC1

ALT MONO 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.

WIRING DATA

General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded)	23AWG BELDEN No. 9471 (5')
(braided)	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
Bonding Strap	BELDEN No. 8672		28AWG BELDEN No. 9466 (6')
AC Power Cord	(6') BELDEN No. 17106		31AWG BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	4-conductor (unshielded)	23AWG BELDEN No. 8415 (6')
		5-conductor (1 shielded)	28AWG BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

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	DS-79		GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	EC6116	1N4004	WEP156	212-76
O4	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	EC6177		WEP1062	
D6	DS-97		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	EC6177		WEP1062	
Q7	DS-66		GE-20	PTC136	HEPS0015*	RE 12	SK3124	RT-102	ECG123A		WEP736	ZEN-12B
U3	DM-51		GEIC-229	PTC767		RE 322-IC	SK3147	TVCM-39	ECG788			
U5	DM-84											

DELCO 1978 SERIES

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C52	100 16V NP	9349947		TCN425A		TVAN-1207,1
C54	1 10V	7936365		TDC105M035EL		SD35-19
C56	1 10V	7936365		TDC105M035EL		SD35-19
C58B	1000					
C160	900 16V NP	7898283		TCN425A		TVAN-1207,1
C161	100 16V NP	9349947				

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALLAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
CB							
C50	.1						
C53	.1 16V		UK16-104		MAG1601		HY-650
C55	.1 16V		UK16-104		MAG1601		HY-650
C57	.1 16V		UK16-104		MAG1601		HY-650
C58A	.1 16V		UK16-104		MAG1601		HY-650
C101	.001						
C102	.1						
C103	.001 10%		DD-102		GP210		10TS-D10
C104	.1						
C106	.022 16V		UK16-223				HY-625
C117	330 N2200 5%						
C131	.033 16V		UK16-333		MAG16133		HY-630
C132	.1 16V		UK16-104		MAG1601		HY-650
C135	.15 12V				MAG12015		HY-365
C137	.01		DC-103	MGP01	TA110	QC2-141	TG-510

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALLAB PART No.	MALLORY PART No.	TRW PART No.
R1A	Tone	40K	16002849			
R1B	Tone	40K	7895320(18)			
R1C	Volume	20K Tap 10K				
R1D	Volume/Power Switch	20K Tap 10K				

(5) Number on unit.
(18) R1A and R1C not used.

ALT MONO 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.	
L18	RF Choke				

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	1.4A	.184	.35mH	7302543			

FUSE DEVICES

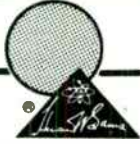
ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	10A Quick Acting			AGC10		312010		

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
	4 X 10 PM, 10 Ohms	7896870		FRONT Caprice, Impala, LeMans, Malibu Camaro Monza, Skyhawk Nova, Skylark Bonneville, Catalina Firebird "G" Van Step Van Chevy Pick-up
	4 X 10 PM, 10 Ohms	7933971		
	4 X 10 PM, 10 Ohms	16002011		
	4 X 10 PM, 10 Ohms	9349690		
	4 X 6 PM, 10 Ohms	7895010		
	4 X 10 PM, 10 Ohms	16004172		
	6 X 9 PM, 10 Ohms (Deep Basket)	9348870		
	4 X 10 PM, 10 Ohms	7898980		
	4 X 10 PM, 10 Ohms	7938401		
	6 X 9 PM, 10 Ohms (Deep Basket)	9348870		
	4 X 10 PM, 10 Ohms	7898980		
	4 X 10 PM, 10 Ohms	1224050		
	4 X 10 PM, 10 Ohms	9349690		

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
I1	Lamp		01a1, Type 216 (13.80V @ 300mA)
J2	Jack	7898521	Audio Board (9 Pin)
J7	Jack	1224150	Power/Speakers/Power Antenna
P7	Plug	12004451	Power/Speakers/Power Antenna
S1	Switch		Power (Part of Volume Control)
S2	Switch	7898278	AM/FM



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



MODEL D80F-18806AA, BA

FORD/MERCURY MODELS D80F-18806AA, BA

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 5000, 8277, 9089

PUSH-BUTTON ADJUSTMENT

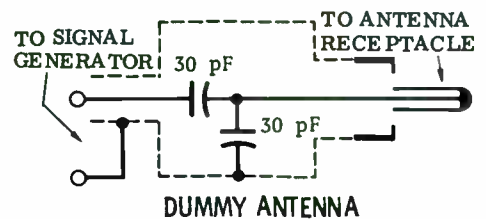
1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

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, T1	Adjust for maximum.
Thru dummy antenna to antenna input.	1610kHz 400Hz Mod	"	VC3, VC2, VC1	"

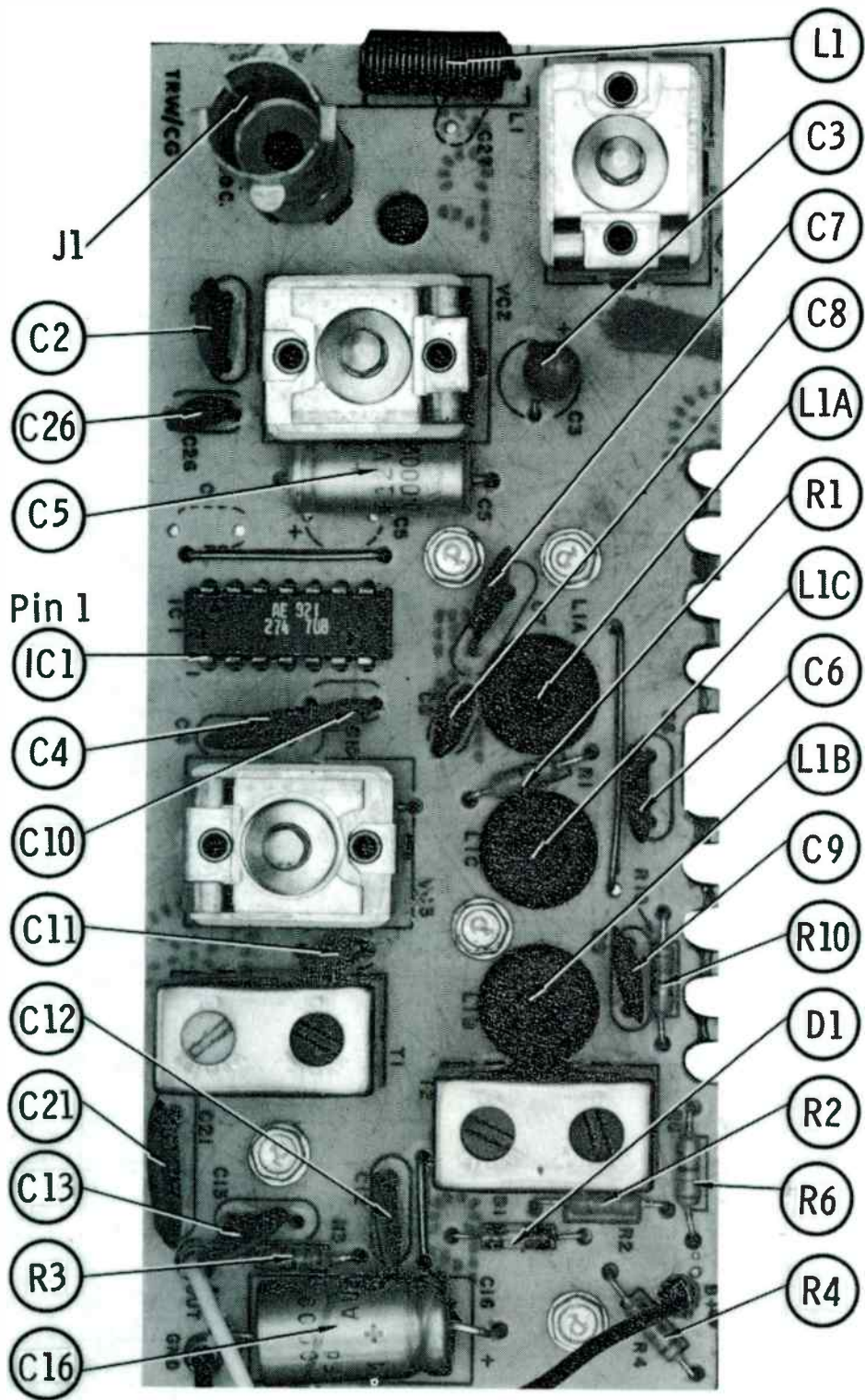
With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust VC1 for maximum output. Antenna adjustment is located thru hole at rear of radio above Antenna Terminal Socket.



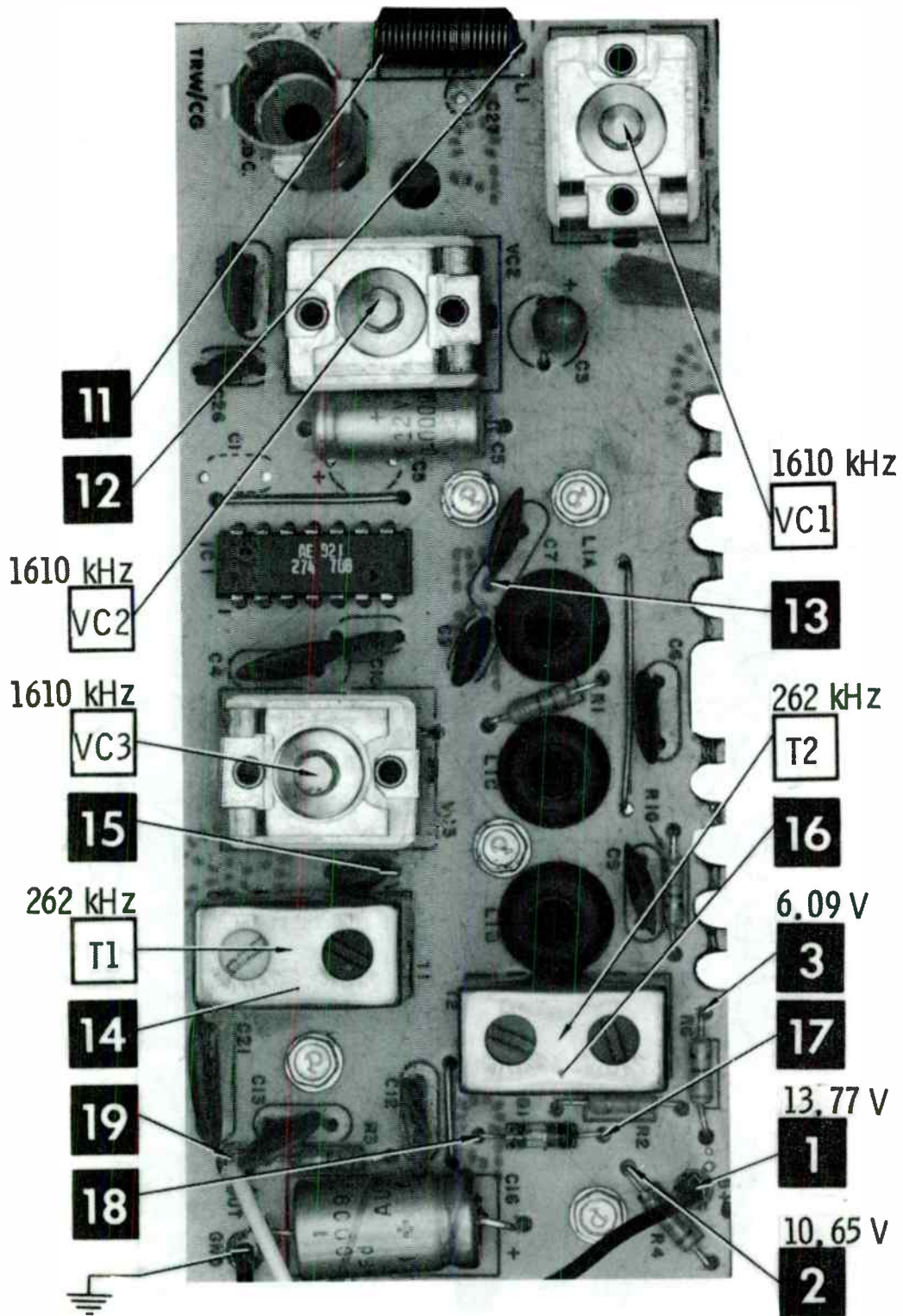
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TUNER BOARD



FORD/MERCURY MODELS D80F-18806AA,BA

TUNER 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 IC1 IC2	AE921 AE920	3L4-2003-1 3L4-9021-1 3L4-9020-1	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
									ECG1232			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C3	33 6V	3L0-0011-32		TDC336M010FL	QDT1-89	SD10-339
C5	5 12V	3L0-0009-29	WBR5-50	TT15X5	QEI-107	TVA-1203
C16	220 16V	3L0-0009-53	PC250-25	VTT220H16	QVI-117	EV-1240
C19	1000 16V	3L0-0009-44	WBR1000-16	TT15X1000B	QE1-591	TVA-1163
C22	150 6V	3L0-0009-50	NLW-150-6	TT6X150A	QE1-457	TVA-1180
C25	1350 10V	3L0-0009-51		TT12X1500A	QVI-189	EV1170

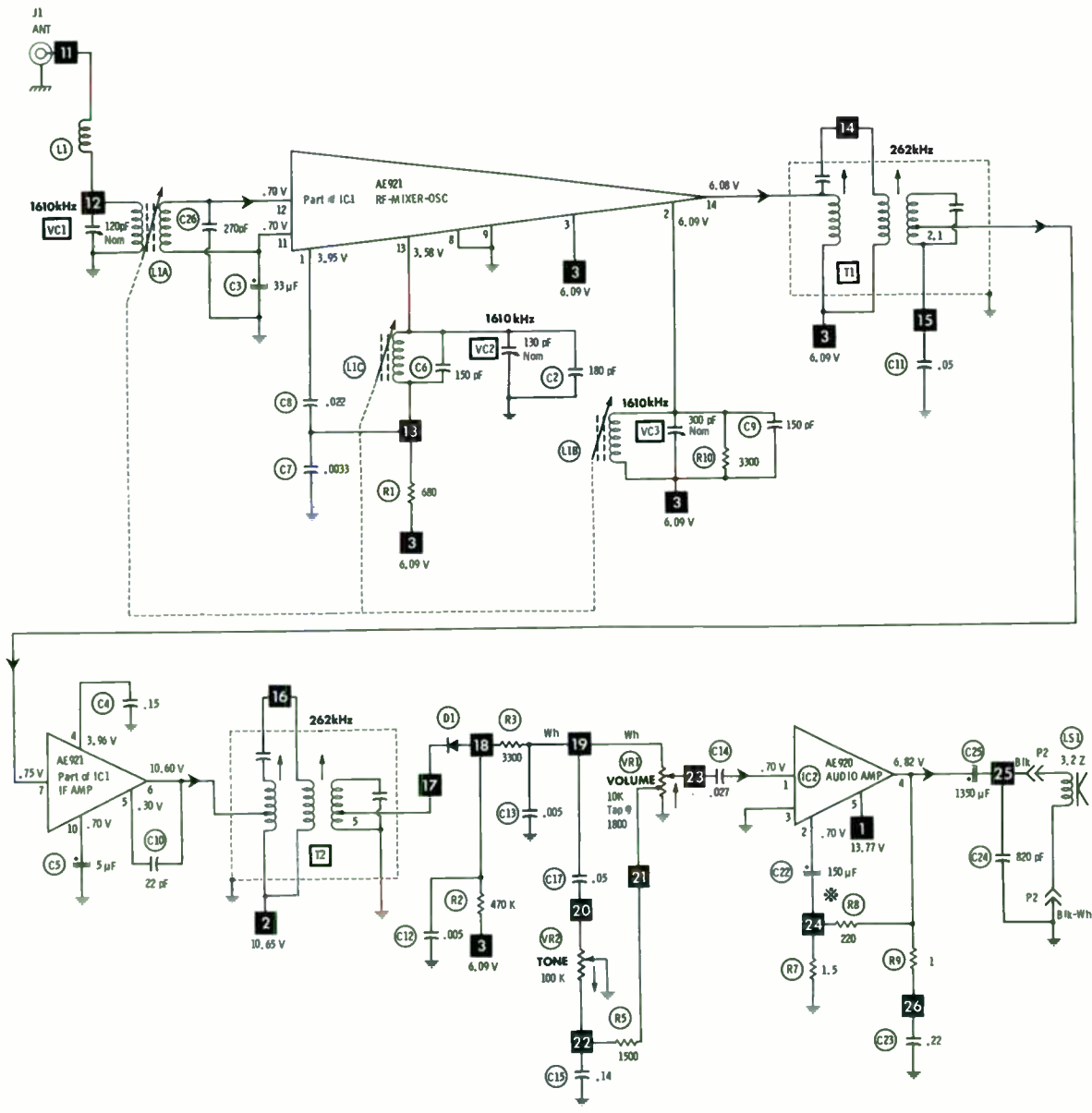
CAPACITORS

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	180 N750		DTN-180		MAG12015		10TCU-T18
C4	.15 10V			N150	CN7315		HY-365
C6	150 N750 10%		DTN-150	GP3300	GP233	QC2-107	10TCU-T15
C7	.0033		DD-332				5GA-D33
C8	.022 12V		UK16-223				HY-625
C9	150 N750 10%		DTN-150	N150	CN7315		10TCU-T15
C10	22 10%		DTZ-22	NP022	CN0422		10TCC-Q22
C11	.05 10V		UK50-503		MAG5015		
C12	.005		DD-472	GP4700	GP247		5GA-D47
C13	.005		DD-472	GP4700	GP247		5GA-D47
C14	.027 12V		DC-253	MGP025	TA125		TG-525
C15	.14 3V				MAG12015		HY-365
C17	.05 10V		UK50-503		MAG5015		
C18	820 10%		DD-821	GP820	GP382		10TS-T82
C20	.01 25V		UK25-103		MAG2511		HY-520
C21	.2 16V		UK16-204				HY-470
C23	.22	3L0-1001-31	CW30C224K				
C24	820 10%		DD-821	GP820	GP382		10TS-T82
C26	270 10%		DD-271	GP270	GP327		10TS-T27
VC1	120	3L1-0005-1					
VC2	150	3L1-0005-4					
VC3	300	3L1-0005-3					

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.
VR1 VR2	Tone Volume/Power Switch	100K 10K Tap @ 1800	3L3-0021-27(18) 3L3-0021-28(6)			

(6) Alternate part, may be used in some versions.
(18) Includes VR1, VR2 and S1.

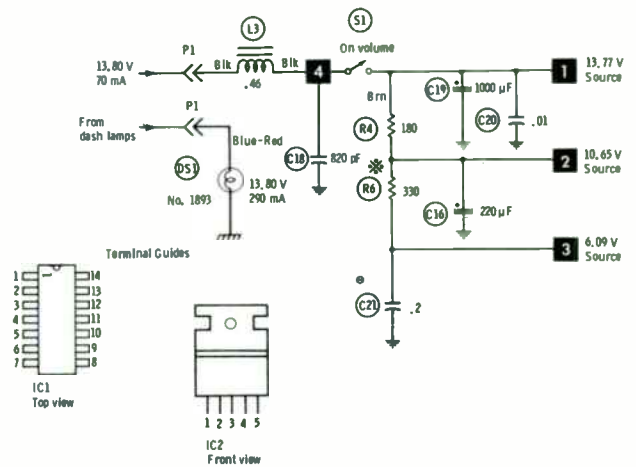


- Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- * Nominal value
- ⊥ Ground
- ⏏ Chassis
- ∇ Common tie point
- Signal path
- ↖ Voltage path

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, 5% unless noted.
 Value in () used in some versions.

A PHOTOFACIT STANDARD NOTATION SCHEMATIC WITH **CIRCUITRACE**

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PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke, Antenna	3L2-0034-4			(1) Used in some versions.
L1A	Antenna Tuning	3L2-0007-18			
L18	Osc Tuning	3L2-0002-10			
L1C	RF Tuning	3L2-0007-19			
T1	1st IF (262kHz)	3L2-0019-3	119A-77-01		
		3L2-0019-5 (1)			
T2	2nd IF (262kHz)	3L2-0019-4	119A-77-01		
		3L2-0019-6 (1)			

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.	
L3	70mA	.46	.21mH	(1)			(1) Part of B+ Cable Assembly Part No. 4L1-0115-3

MISCELLANEOUS

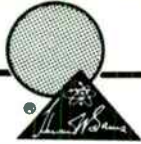
ITEM No.	PART NAME	PART No.	NOTES
OS1	Lamp	3L4-0001-6	(290mA @ 13.80V)
J1	Jack	2L8-0544-1	Antenna Socket
P1	Plug	4L1-0015-3 (1)	Power, Dial Lamp
P2	Plug	4L1-0016-3 (2)	Speaker
S1	Printed Circuit Board	7L6-0691-1	Power (On volume control) AM & Audio (Complete)

(1) Includes P1, L3, and cables.

(2) Cable assembly.

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

ITEM	PART No.	ITEM	PART No.
Bezel	2L7-0265-7	Dial Pointer	2L8-0077-22
Pushbutton (5 used)	2L7-0145-2		



MODEL 862

JIL MODEL 862

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:

All Trimmers and coils GC ELECTRONICS: 5000, 8277, 9089

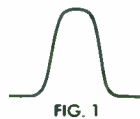


FIG. 1



FIG. 2

PUSH-BUTTON ADJUSTMENT

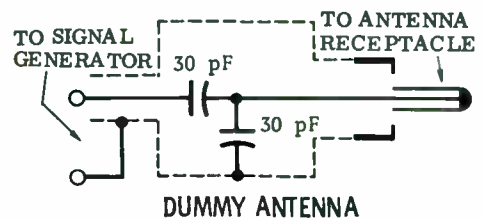
1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

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	455kHz 400-Hz mod.	High freq end stop	IFT204, 203 202, 201	Adjust for maximum.
Thru dummy antenna to antenna input.	1620kHz 400-Hz Mod	1620kHz	CT203 CT202	"
Thru dummy antenna to antenna input.	520kHz 400Hz Mod	520kHz	L202	"
Thru dummy antenna to antenna input.	1400kHz 400Hz Mod	1400kHz	CT201	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 CT201 for maximum output. Antenna adjustment is located inside Tape Door to the right rear.



ALIGNMENT INSTRUCTIONS (Continued)

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 TP2	(1)IFT102	Adjust for maximum.
"	"	DC probe of VTVM to TP2	IFT101	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 TP2	(1)IFT102	Adjust for maximum gain and symmetry of response similar to Fig. 1.
"	"	Vert input of scope to TP2	IFT101	Adjust IFT101 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 Unmodulated	108MHz	DC probe of VTVM to speaker	CT101,102,103	Adjust for maximum.
88MHz Unmodulated	88MHz	"	L102	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

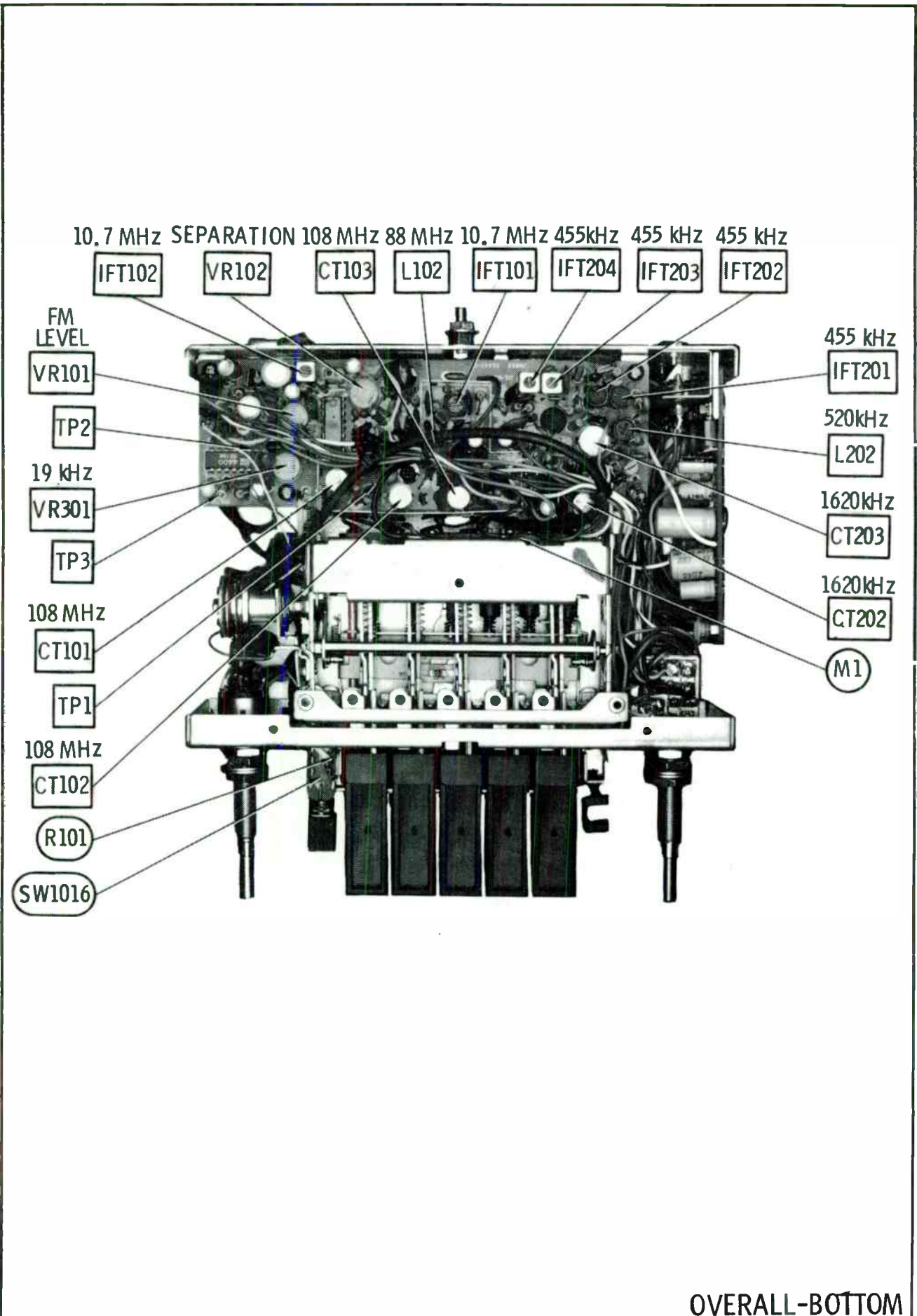
(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

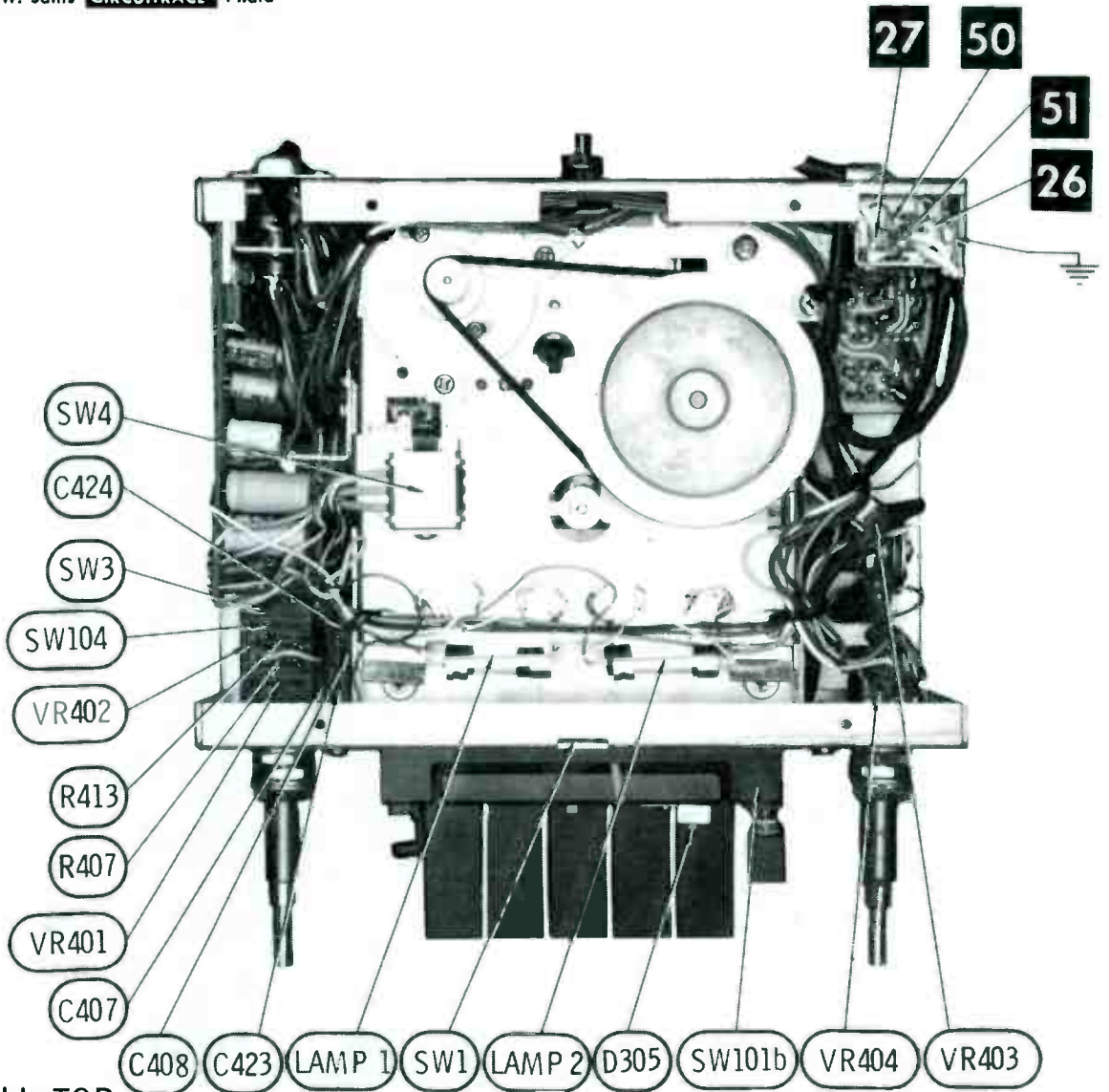
FM STEREO ALIGNMENT USING FREQUENCY COUNTER

Connect Frequency Counter to TP3.				
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS	
	Select FM Stereo System	VR301	Adjust for 19kHz \pm 20Hz.	
	Select AM Station		Note output level.	
	Select FM Station	VR101	Note output level. Adjust VR101 for equal outputs.	

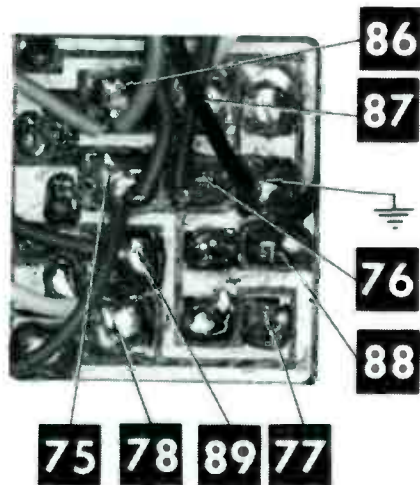
FM STEREO ADJUSTMENT

Tune receiver for a stereo signal. Adjust balance control for equal channel output. Adjust Separation control VR102 for best separation.
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OVERALL-TOP



CONTROL BOARD

CLEANING LUBRICATING HEAD DEMAGNETIZING

Refer to
"General Servicing Information"
on page 4.

ADJUSTMENTS

ADJUST	REMARKS
Head Azimuth	Play a test cartridge and adjust screw S10 for maximum on meter across output.
Head Height	Play a test cartridge, follow instructions with cartridge, and adjust screw S09 for proper response.

TROUBLE CHART

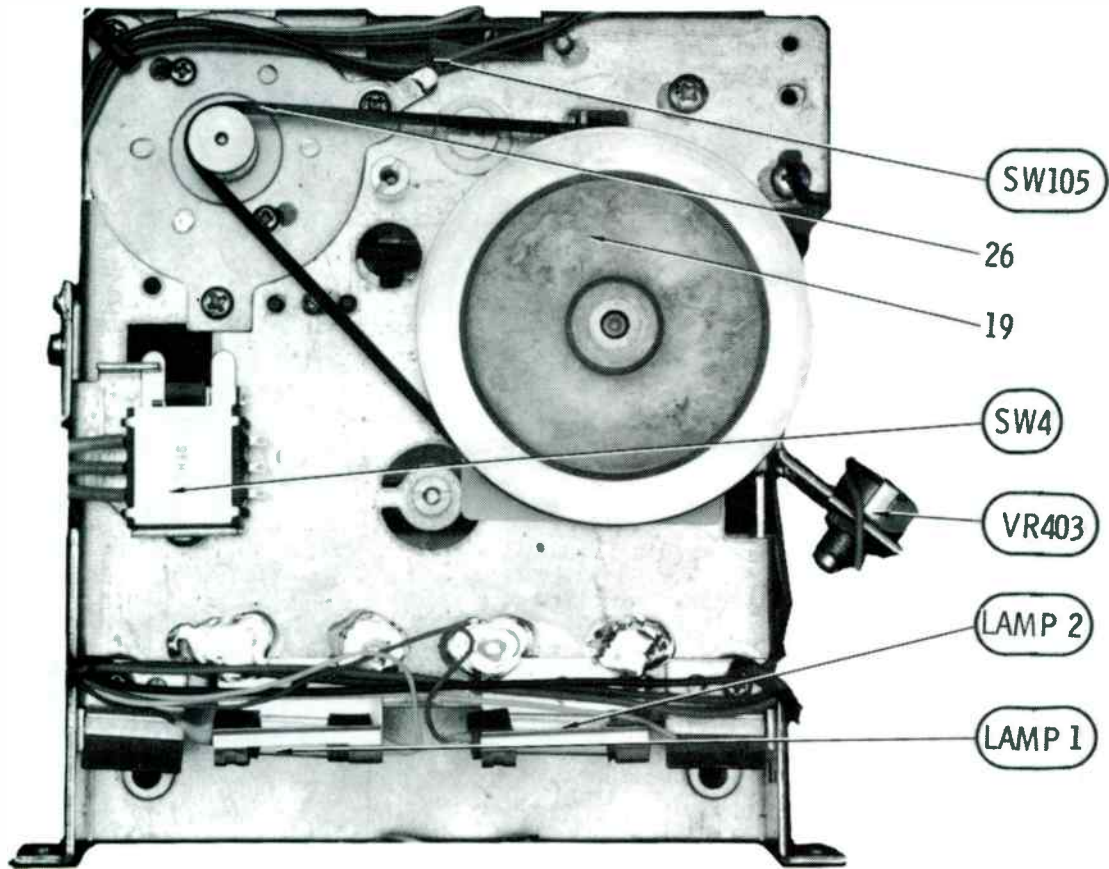
SYMPTOM	REMARKS
Capstan does not rotate.	Belt 26 dirty, worn, or broken. Assembly 27 binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch SW5 dirty. Cam 13 binding or worn. Pawl 17 worn. Assembly 2 binding. Solenoid M5 defective or not supplied with power. Cartridge defective.
Wow or flutter	Belt 26 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.

JIL MODEL 862

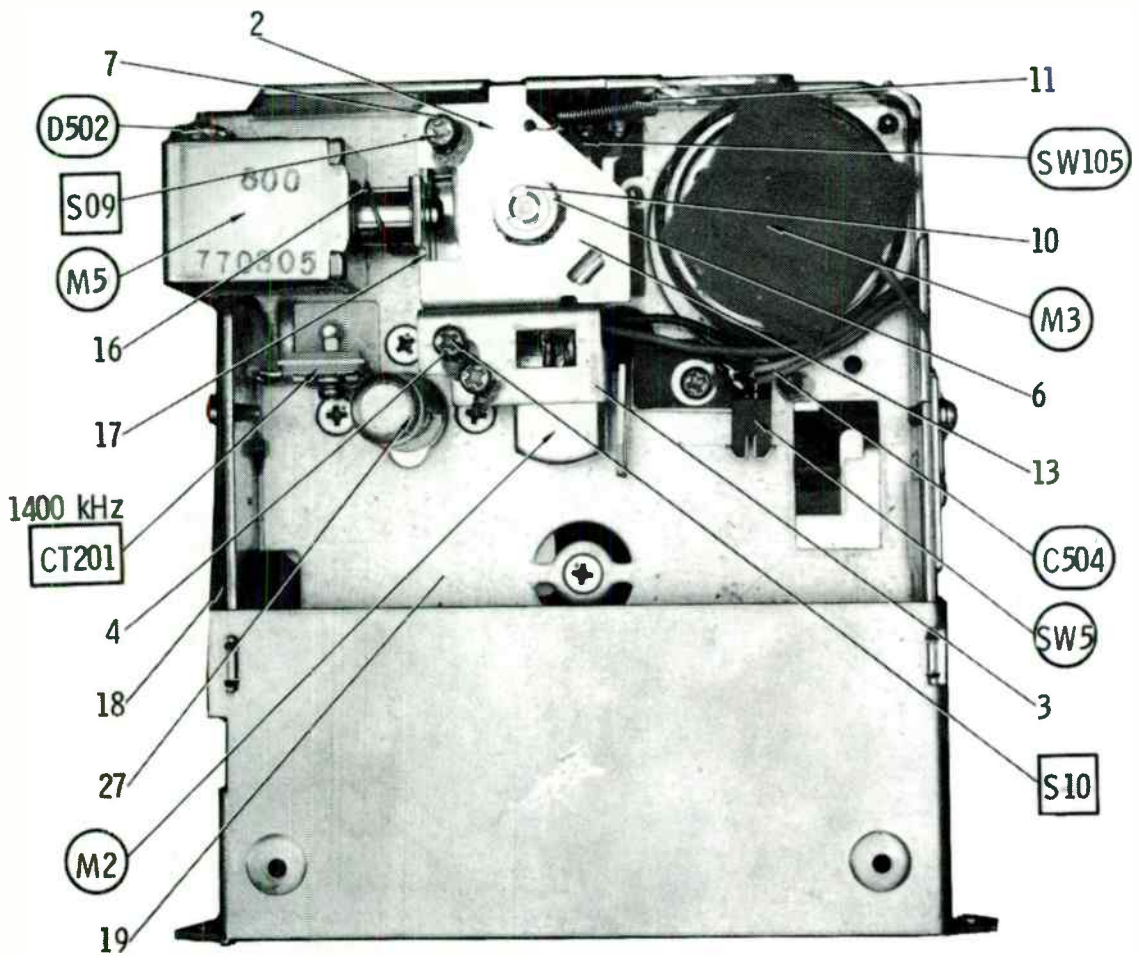
MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
2	21380	Head Shifting Assembly	16	23748	Solenoid Spring
3	23575	Head Clamp	17	21381	Pawl
4	23588	Azimuth Spring	18	21390	Cartridge Detent Arm
6	23589	Head Lifting Spring	19	21438	Flywheel
7	23600	Height Adjust Rpring	26*	23590*	Flywheel Drive Belt*
10	23586	Height Tension Spring	27	23756	Capstan Bearing Assembly
11	23605	Side Tension Spring	S09	023042	Height Adjust Screw
13	21372	Track Changing Cam	S10	023052	Azimuth Adjust Screw

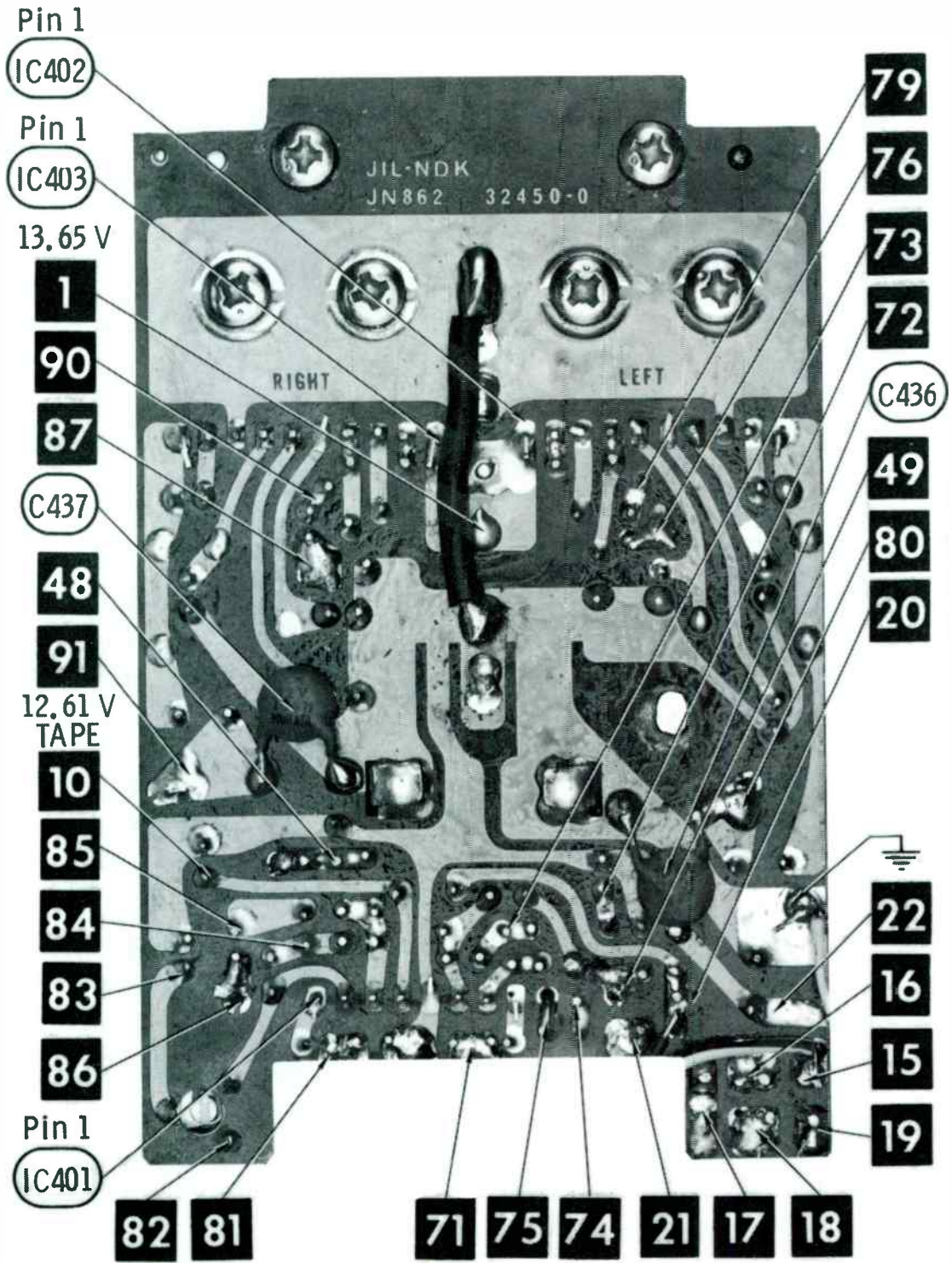
* Flywheel Drive Belt: E-V/GAME Replacement Number 1407-42.
WALSCO Replacement Number 1425-33.



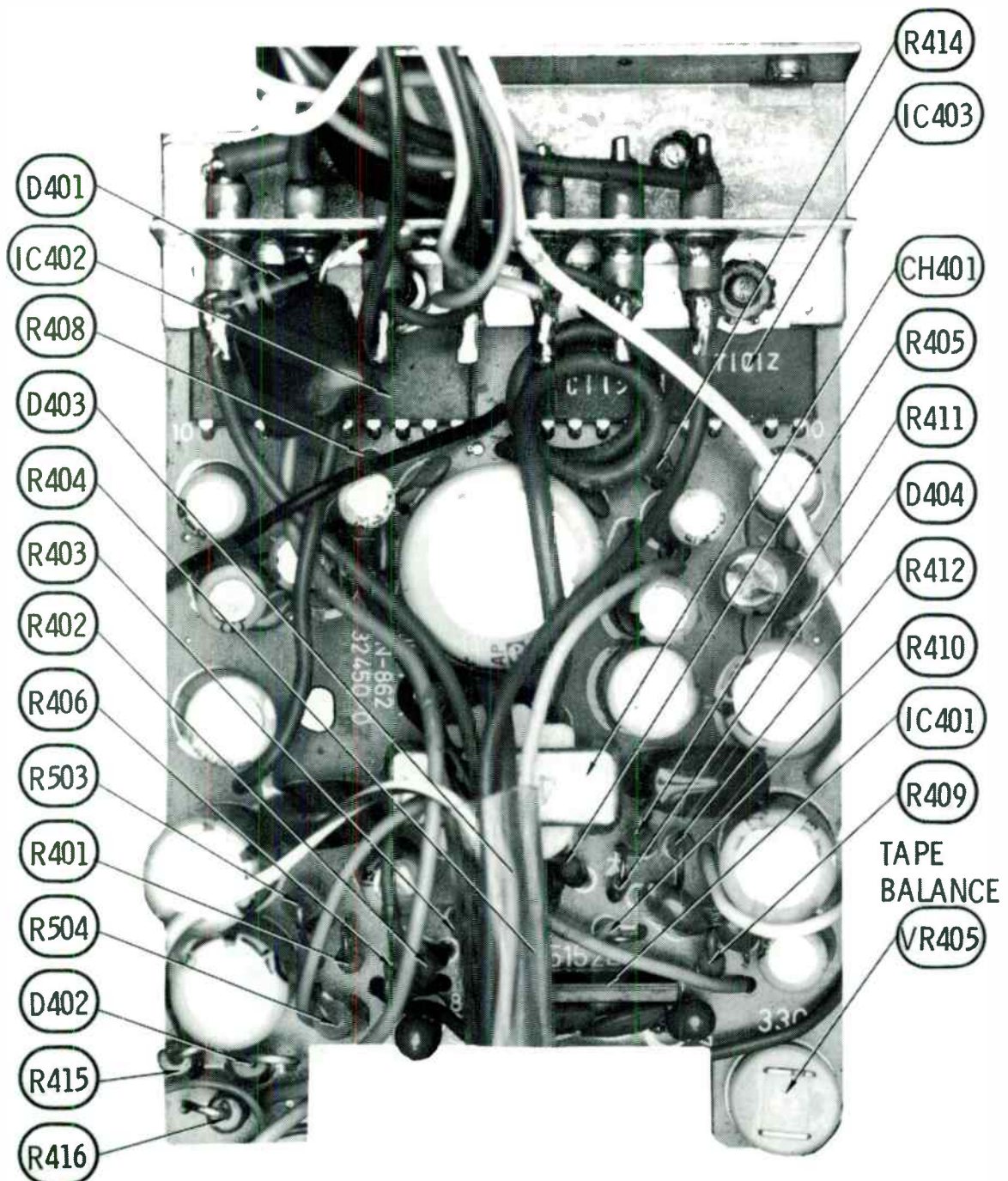
TAPE DECK-TOP



TAPE DECK - BOTTOM

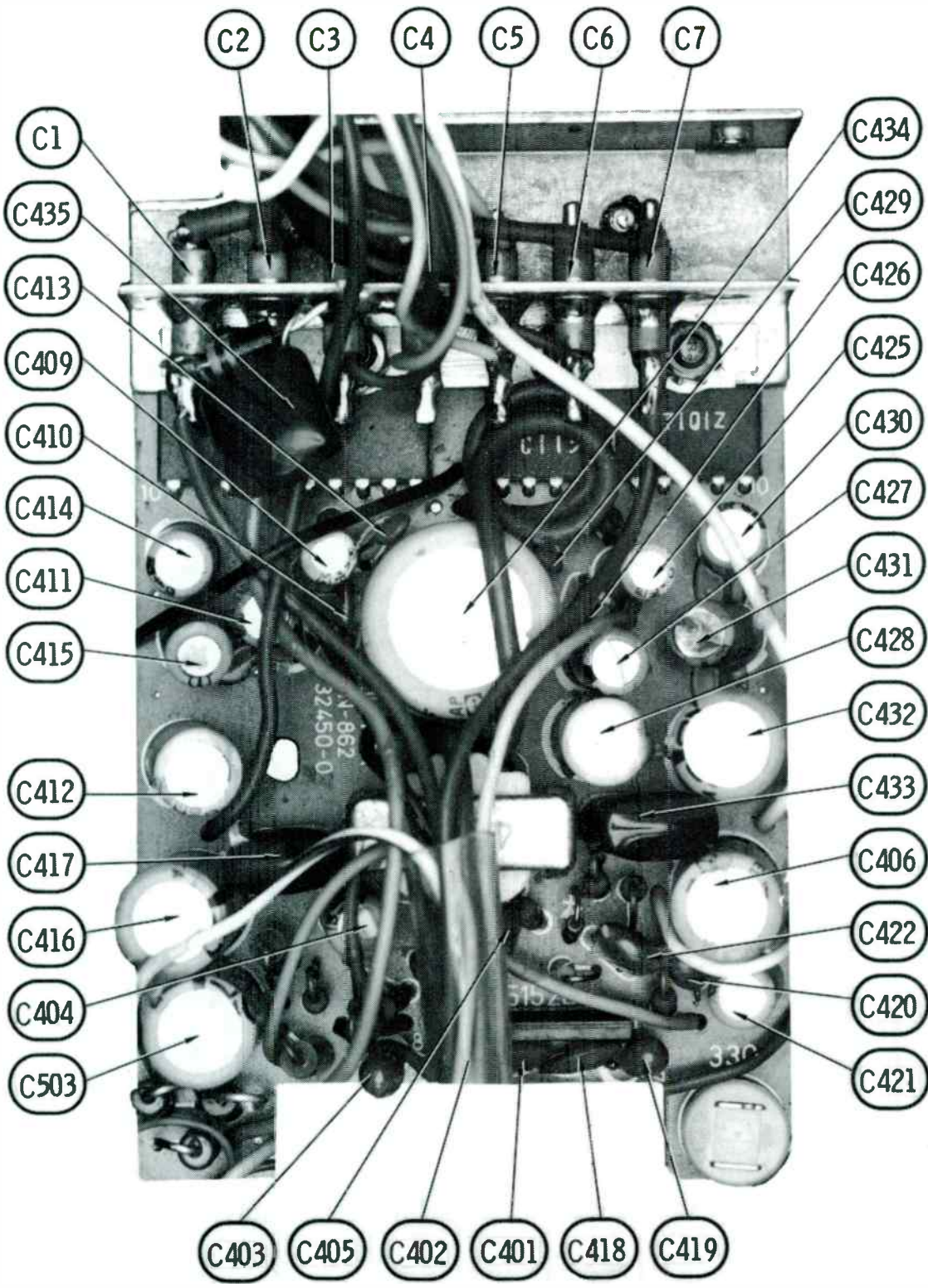


TAPE/OUTPUT BOARD

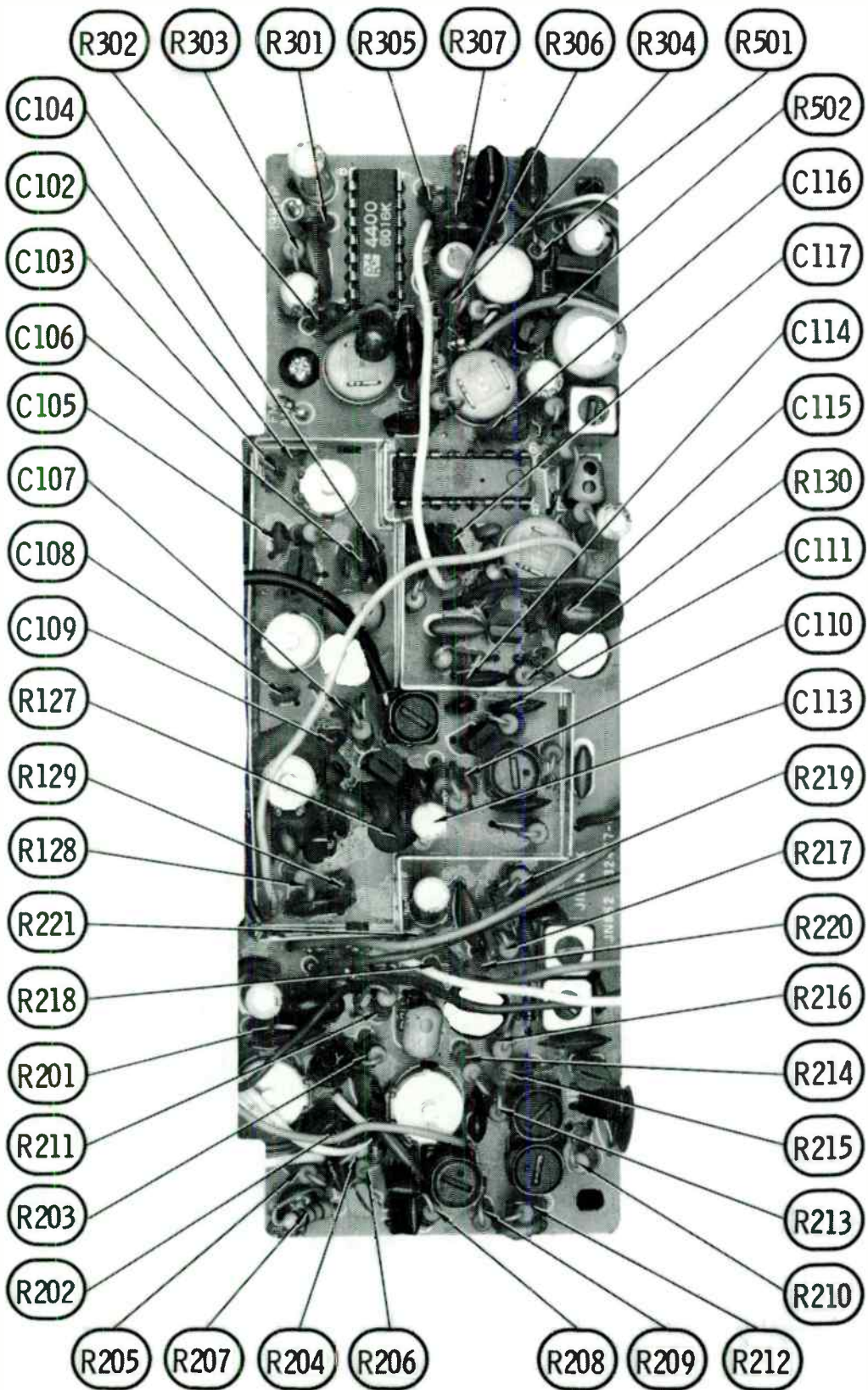


JIL MODEL 862

TAPE/OUTPUT BOARD



TAPE BOARD



JIL MODEL 862

MAIN BOARD

PARTS LIST AND DESCRIPTION

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

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA													
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.				
D101	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177							
D102	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177							
D103	1S2139	922214		PTC311	HEPR2501				ECG611							ZEN-451
D201	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177							
D202	1S188	922962	1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109		1N34A					ZEN-430
	1S188FM-2		1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109		1N34A					ZEN-430
D301	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177							
D302	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177							
D303	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177							
D304	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177							
D401	SR1K-1	922860	GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116		1N4004					212-76
D402	SR1K-1	922860	GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116		1N4004					212-76
D403	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177							
D404	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177							
D501	WZ-110	923233	GEZD-11	ZM118		RE 116	SK3139	RT-242	ECG5020		1N4741A					103-279-20
D502	SR1K-1	922860	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177							
IC101	KB4402	916123														
IC301	KB4400	916108														
IC401	M5152L															
	UPC1032H	916122														
IC402	UPC1154H	916156														
IC403	UPC1154H	916156														
Q101	2SK49H1	916100	GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312							ZEN-123
Q102	25C922		GE-17*	PTC136*	HEPS0015*	RE 13*	SK3018*	RT-107A	ECG123A*							121-972
	25C922L	916091	GE-17*	PTC136*	HEPS0015*	RE 13*	SK3018*	RT-107A	ECG123A*							121-972
Q103	25C839F	916050	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*							ZEN-120
Q104	25C945L		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199							121-29000
	25C945L,R	916033	GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199							121-29000
Q105	25C922		GE-17*	PTC136*	HEPS0015*	RE 13*	SK3018*	RT-107A	ECG123A*							121-972
	25C922L	916091	GE-17*	PTC136*	HEPS0015*	RE 13*	SK3018*	RT-107A	ECG123A*							121-972
Q201	25C941R		GE-210*	PTC132*	HEPS0016*	RE 192	SK3122	RT-107A	ECG123A*							ZEN-114
	25C941R	916127	GE-210*	PTC132*	HEPS0016*	RE 192	SK3122	RT-107A	ECG123A*							ZEN-114
Q202	25C839F		GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*							ZEN-120
	25C839F	916050	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*							ZEN-120
Q203	25C839F		GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*							ZEN-120
	25C839F	916050	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*							ZEN-120
Q501	25D471	916126	GE-268	PTC144*	HEPS3001*	RE 196*	SK3124	RT-114*	ECG289							121-1014

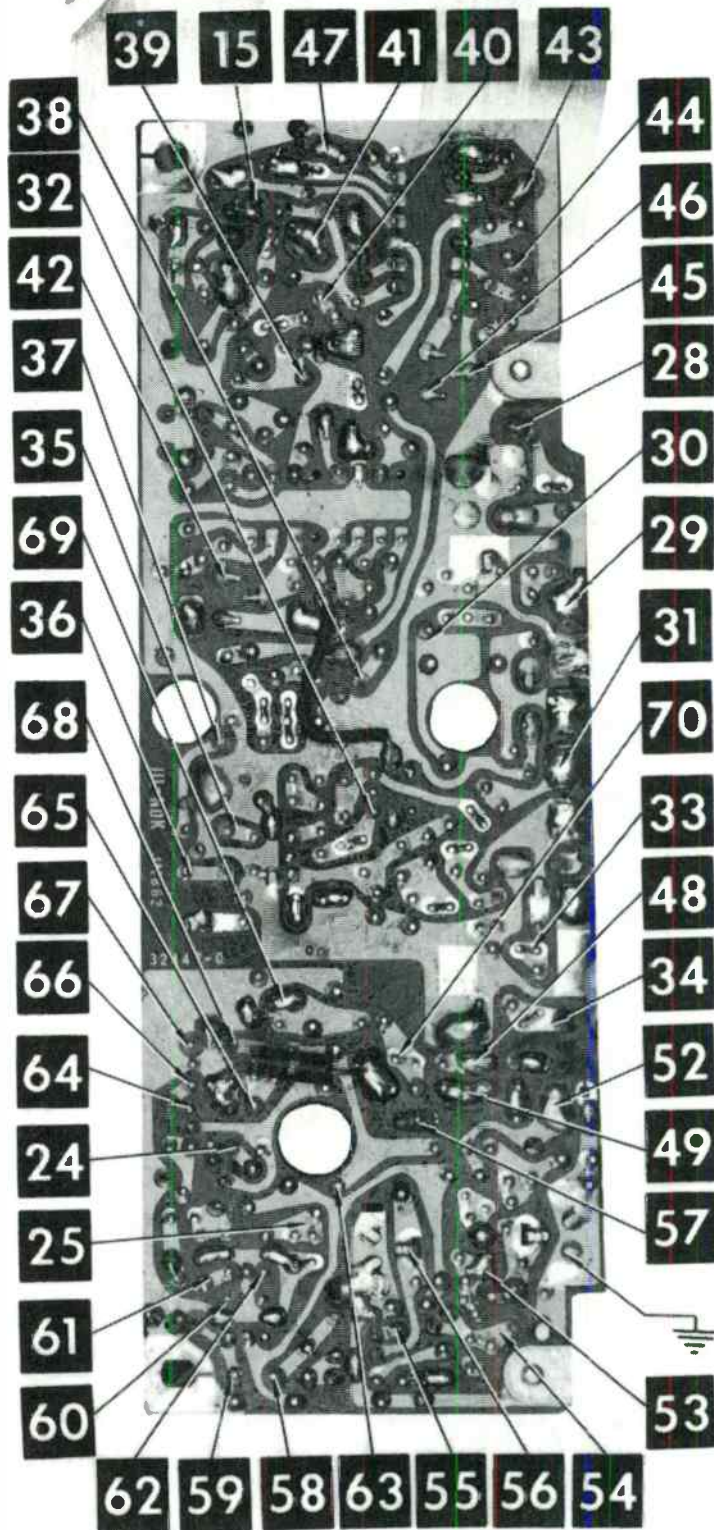
* Lead configuration may vary from original.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-UNE	GENERAL LINE
C113	4.7 25V	913148	PC5-50	VTT4R7B50	QV1-27	EV-1319
C120	1 50V NP	913349	WNP1-50	TCN501A*	QEN1-20*	TVAN-1560*
C122	1 50V NP	913349	WNP1-50	TCN501A*	QEN1-20*	TVAN-1560*
C203	10 16V	913175	PC10-25	VTT10B25	QV1-41	EV-1222
C221	10 16V	913175	PC10-25	VTT10B25	QV1-41	EV-1222
C301	1 50V NP	913349	WNP1-50	TCN501A	QEN1-20	TVAN-1560
C304	.47 50V NP	913348				
C306	1 50V NP	913349				
C307	100 10V	913013	WNP1-50	TCN501A*	QEN1-20*	TVAN-1560*
C402	4.7 10V	913443	PC100-10	VTT100E10	QV1-93	EV-1130
C403	10 10V			TDC475M01OEL	QDT1-48	SD10-4R79
	4.7 10V	913443		TDC106M025FL	QDT1-64	SD25-109
C4D4	47 10V	913196	PC50-16	VTT47D16	QDT1-48	SD10-4R79
C406	220 16V	913069	PC250-25	VTT220H16	QV1-73	EV-1226
C409	1 50V NP	913349	WNP1-50	TCN501A*	QEN1-20*	TVAN-1560*
C411	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C412	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1130
C414	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C415	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226
C416	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1250
C419	4.7 10V	913443		TDC475M01OEL	QDT1-48	SD10-4R79
C420	10 10V			TDC106M025FL	QDT1-64	SD25-109
	4.7 10V	913443		TDC475M01OEL	QDT1-48	SD10-4R79
C421	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C425	1 50V NP	913349	WNP1-50	TCN501A*	QEN1-20*	TVAN-1560*
C427	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C428	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1130
C430	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C431	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226
C432	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1250
C434	1000 16V	913061	PC1000-16	VTT1000L16	QV1-183	EV-1260
C501	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226
C502	220 16V	913069	PC250-25	VTT220H16	QV1-117	EV-1240
C503	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1250
C505	470 16V (1)	913030	PC500-16	VTT470K16	QV1-151	EV-1250

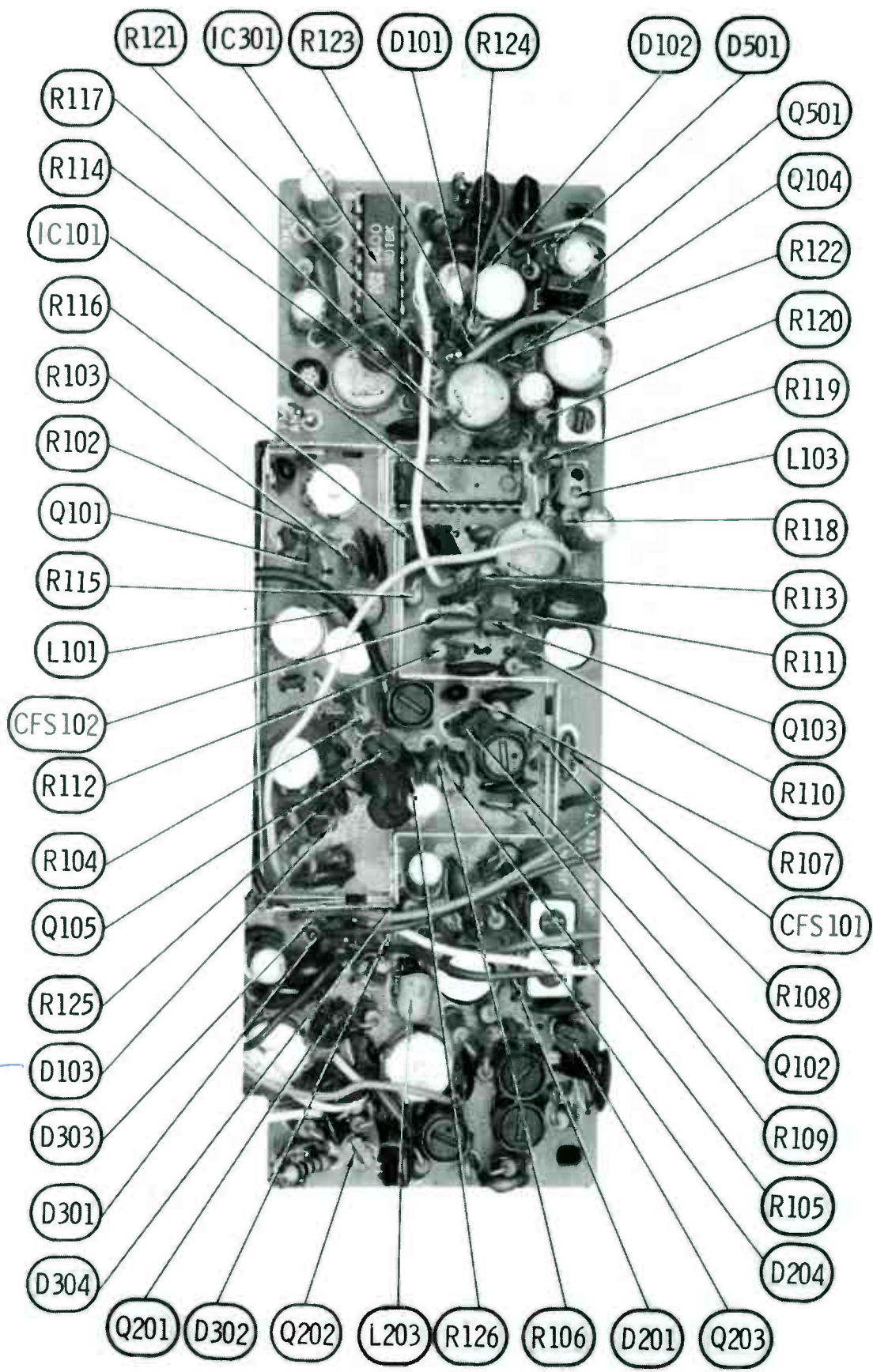
* Axial replacement for radial device.

(1) Part of M4.

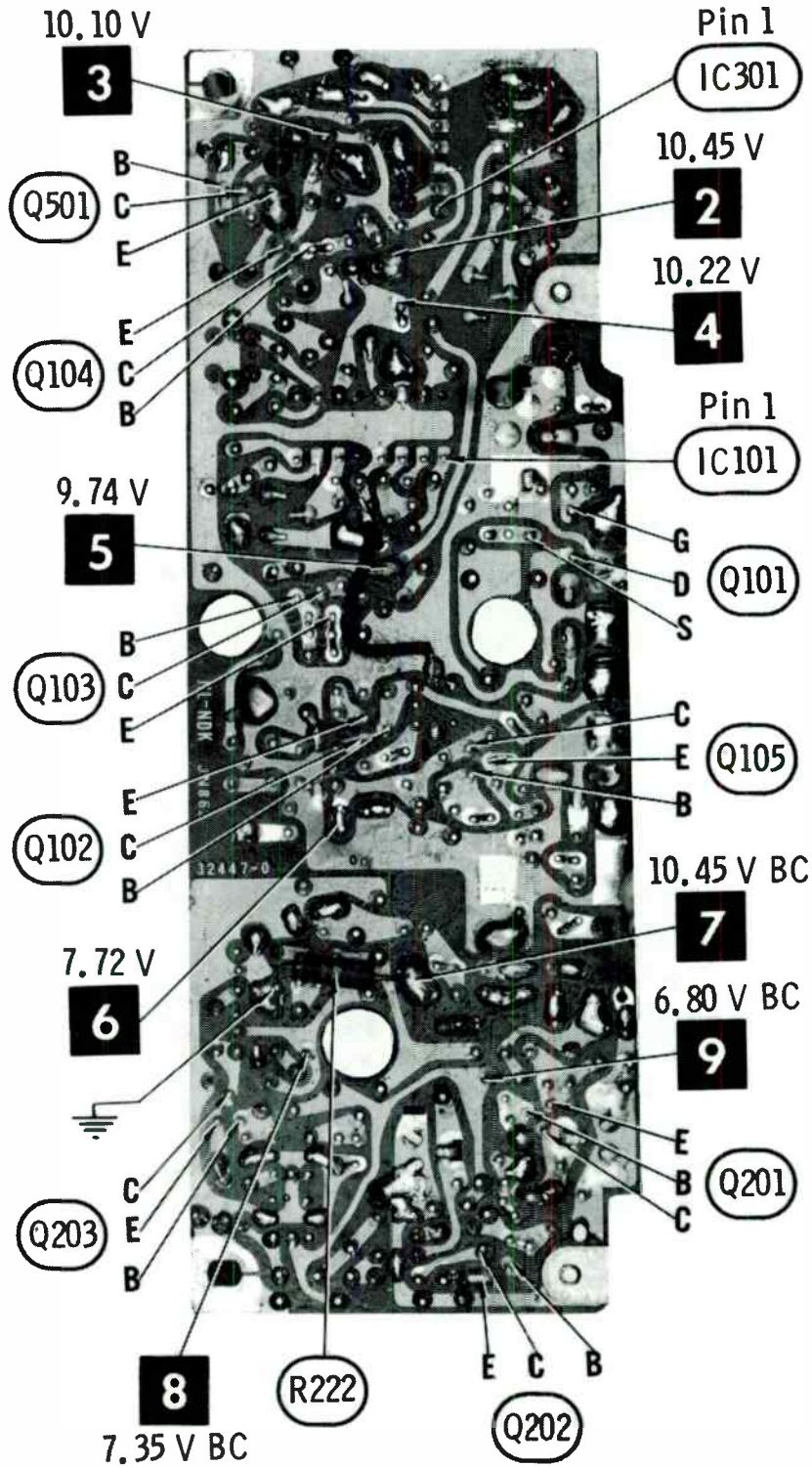


JIL MODEL 862

MAIN BOARD

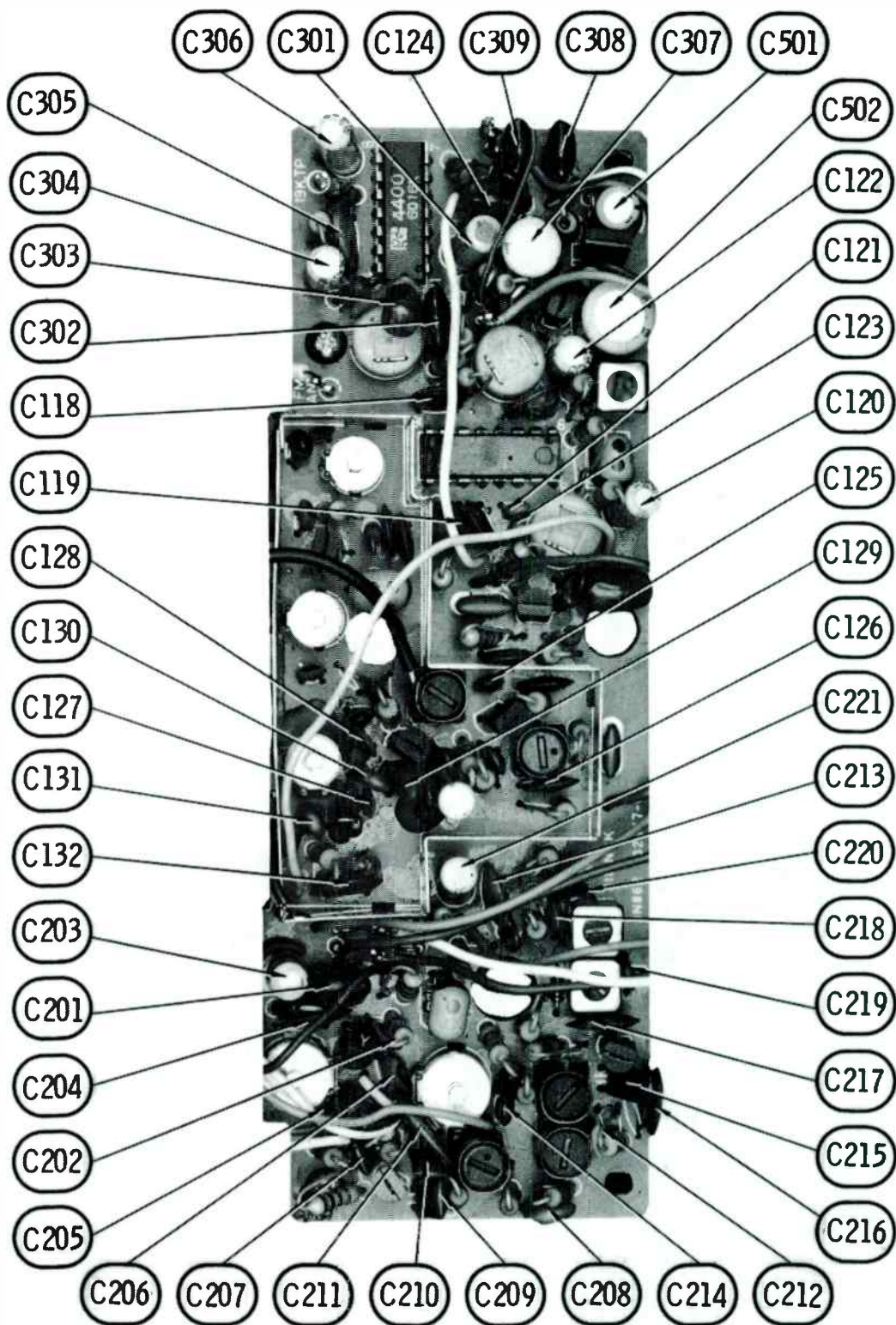


MAIN BOARD

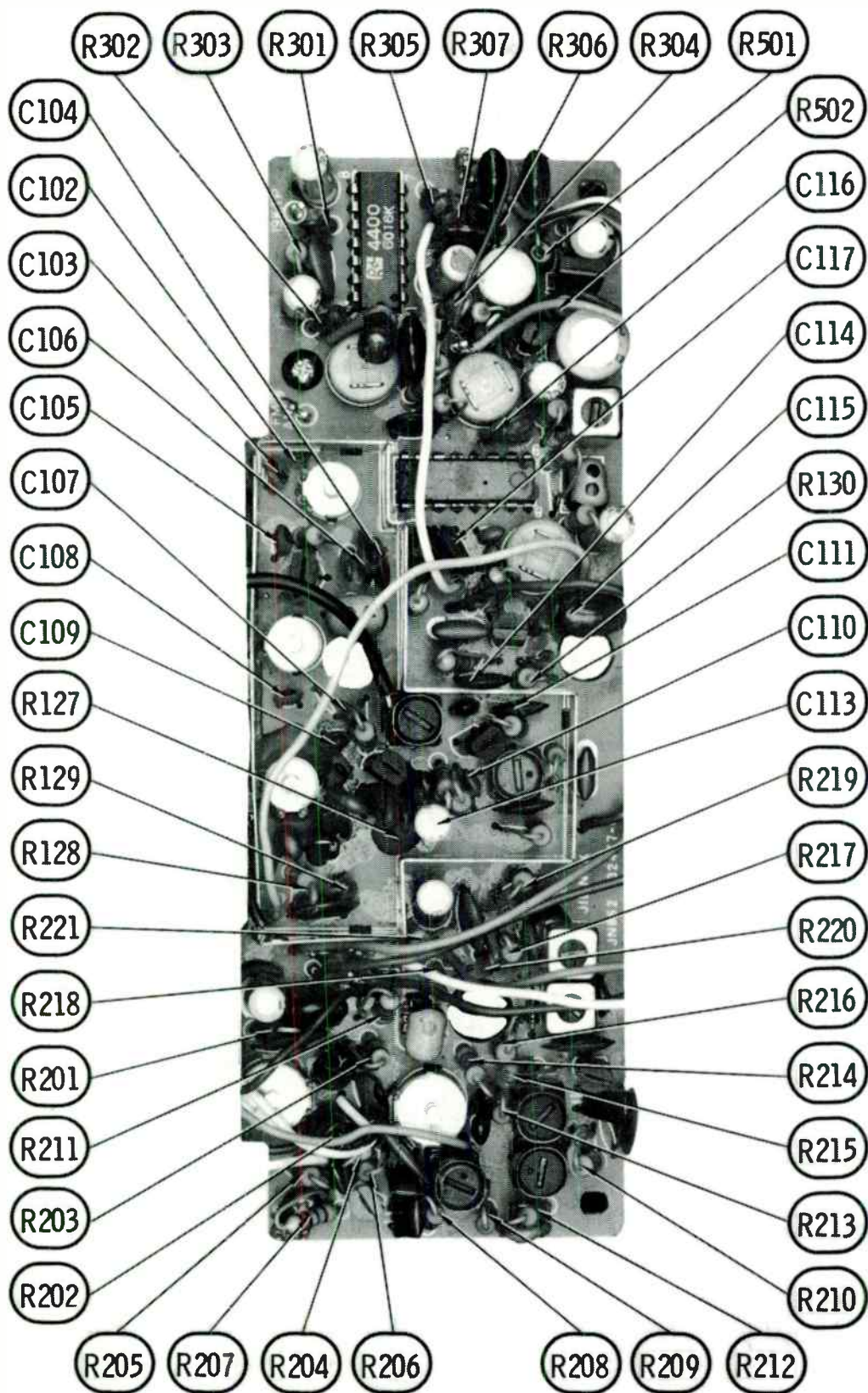


JIL MODEL 862

MAIN BOARD



MAIN BOARD



JIL MODEL 862

MAIN BOARD

PARTS LIST AND DESCRIPTION

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

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SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA										
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D101	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177			WEP1062	
D102	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177			WEP1062	
D103	1S2139	922214		PTC311	HEPR2501				ECG611				ZEN-451
D201	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177			WEP1062	
D202	1S188	922962	1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109	1N34A		WEP134	ZEN-430
	1S188FM-2		1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109	1N34A		WEP134	ZEN-430
D301	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177			WEP1062	
D302	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177			WEP1062	
D303	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177			WEP1062	
D304	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177			WEP1062	
D401	SR1K-1	922860	GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116	1N4004		WEP156	212-76
D402	SR1K-1	922860	GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116	1N4004		WEP156	212-76
D403	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177			WEP1062	
D404	1S953	923147	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177			WEP1062	
D501	WZ-110	923233	GEZD-11	ZM118		RE 116	SK3139	RT-242	ECG5020	1N4741A		WEP1421	103-279-20
D502	SR1K-1	922860	GE-300	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177			WEP1062	
IC101	KB4402	916123											
IC301	KB4400	916108											
IC401	M5152L		GEIC-65						ECG1170				
	UPC1032H	916122	GEIC-65						ECG1170				
IC402	UPC1154H	916156											
IC403	UPC1154H	916156											
Q101	25K49H1	916100	GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312			WEP736*	ZEN-123
Q102	25C922		GE-17*	PTC136*	HEPS0015*	RE 13*	SK3018*	RT-107A	ECG123A*	25C1166*		WEP736*	121-972
	25C922L	916091	GE-17*	PTC136*	HEPS0015*	RE 13*	SK3018*	RT-107A	ECG123A*	25C1166*		WEP736*	121-972
	25C839F	916050	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	25C839		WEP736*	ZEN-120
Q104	25C945L		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945		WEP1945	121-29000
	25C945S,R	916033	GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	25C945		WEP1945	121-29000
Q105	25C922		GE-17*	PTC136*	HEPS0015*	RE 13*	SK3018*	RT-107A	ECG123A*	25C1166*		WEP736*	121-972
	25C922L	916091	GE-17*	PTC136*	HEPS0015*	RE 13*	SK3018*	RT-107A	ECG123A*	25C1166*		WEP736*	121-972
Q201	25C941Y		GE-210*	PTC132*	HEPS0016*	RE 192	SK3122	RT-107A	ECG123A*	25C373		WEP66	ZEN-114
	25C941R	916127	GE-210*	PTC132*	HEPS0016*	RE 192	SK3122	RT-107A	ECG123A*	25C373		WEP66	ZEN-114
Q202	25C839		GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	25C839		WEP736*	ZEN-120
	25C839F	916050	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	25C839		WEP736*	ZEN-120
Q203	25C839		GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	25C839		WEP736*	ZEN-120
	25C839F	916050	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	25C839		WEP736*	ZEN-120
Q501	25D471	916126	GE-268	PTC144*	HEPS3001*	RE 196*	SK3124	RT-114*	ECG289	25C839		WEP910	121-1014

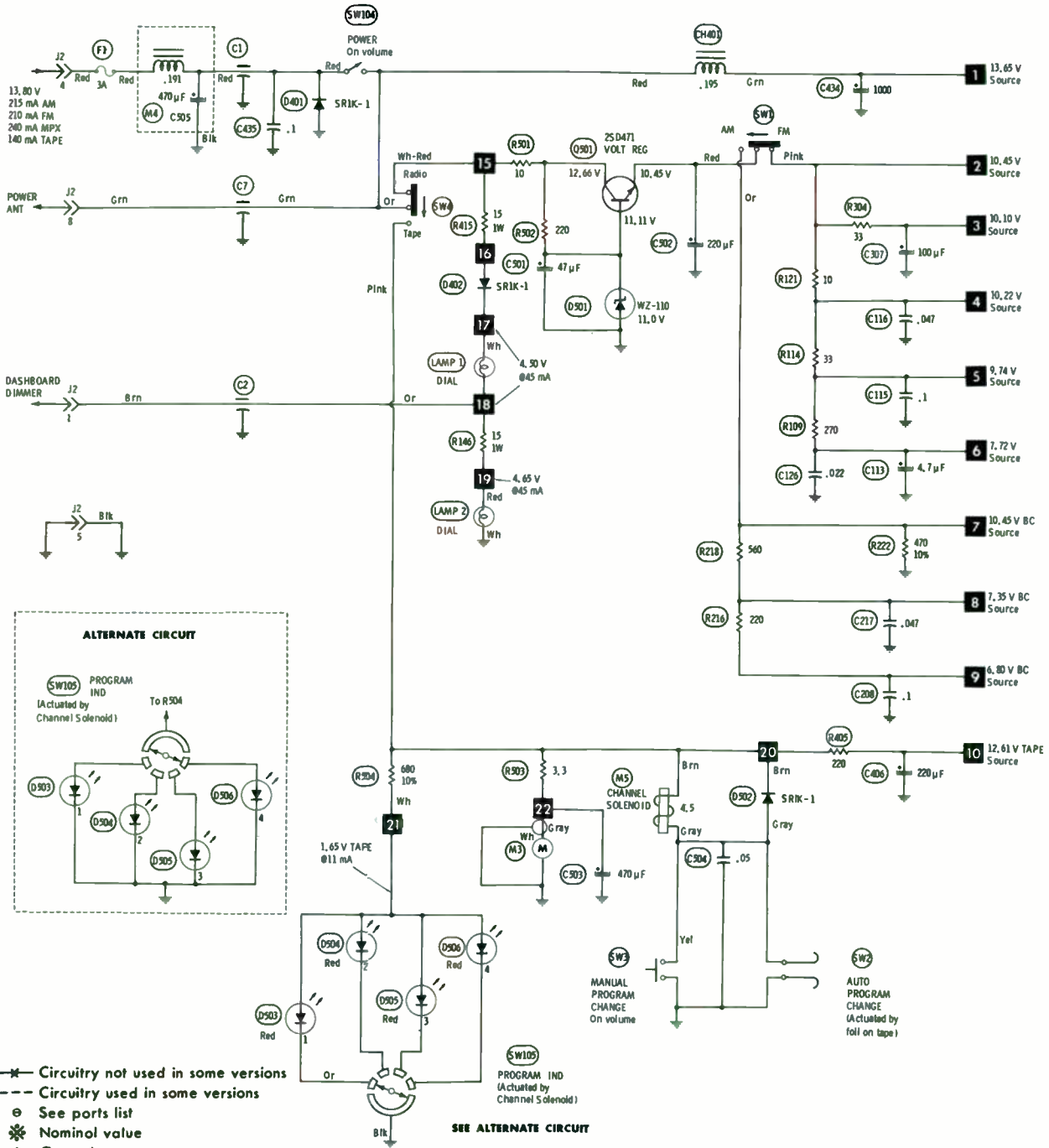
* Lead configuration may vary from original.

ELECTROLYTIC CAPACITORS

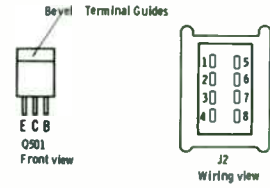
ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C113	4.7 25V	913148	PC5-50	VTT4R7B50	QV1-27	EV-1319
C120	1 50V NP	913349	WNP1-50	TCN501A*	QEN1-20*	TVAN-1560*
C122	1 50V NP	913349	WNP1-50	TCN501A*	QEN1-20*	TVAN-1560*
C203	10 16V	913175	PC100-25	VTT10B25	QV1-41	EV-1222
C221	10 16V	913175	PC100-25	VTT10B25	QV1-41	EV-1222
C301	1 50V NP	913349	WNP1-50	TCN501A	QEN1-20	TVAN-1560
C304	.47 50V NP	913348				
C306	1 50V NP	913349	WNP1-50	TCN501A*	QEN1-20*	TVAN-1560*
C307	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1130
C402	4.7 10V	913443		TDC475M010EL	QDT1-64	SD10-4R79
C403	10 10V			TDC106M025FL	QDT1-64	SD25-109
	4.7 10V	913443		TDC475M010EL	QDT1-48	SD10-4R79
C404	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C406	220 16V	913069	PC250-25	VTT220H16	QV1-117	EV-1240
C409	1 50V NP	913349	WNP1-50	TCN501A*	QEN1-20*	TVAN-1560*
C411	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C412	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1130
C414	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C415	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226
C416	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1250
C419	4.7 10V	913443		TDC475M010EL	QDT1-48	SD10-4R79
C420	10 10V			TDC106M025FL	QDT1-64	SD25-109
	4.7 10V	913443		TDC475M010EL	QDT1-48	SD10-4R79
C421	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C425	1 50V NP	913349	WNP1-50	TCN501A*	QEN1-20*	TVAN-1560*
C427	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C428	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1130
C430	47 10V	913196	PC50-16	VTT47D16	QV1-73	EV-1226
C431	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226
C432	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1250
C434	1000 16V	913061	PC1000-16	VTT1000L16	QV1-183	EV-1260
C501	47 16V	913180	PC50-16	VTT47D16	QV1-73	EV-1226
C502	220 16V	913069	PC250-25	VTT220H16	QV1-117	EV-1240
C503	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1250
C505	470 16V (1)		PC500-16	VTT470K16	QV1-151	EV-1250

* Axial replacement for radial device.
(1) Part of M4.

NOTE: DEMAGNETIZE HEADS AFTER SERVICING



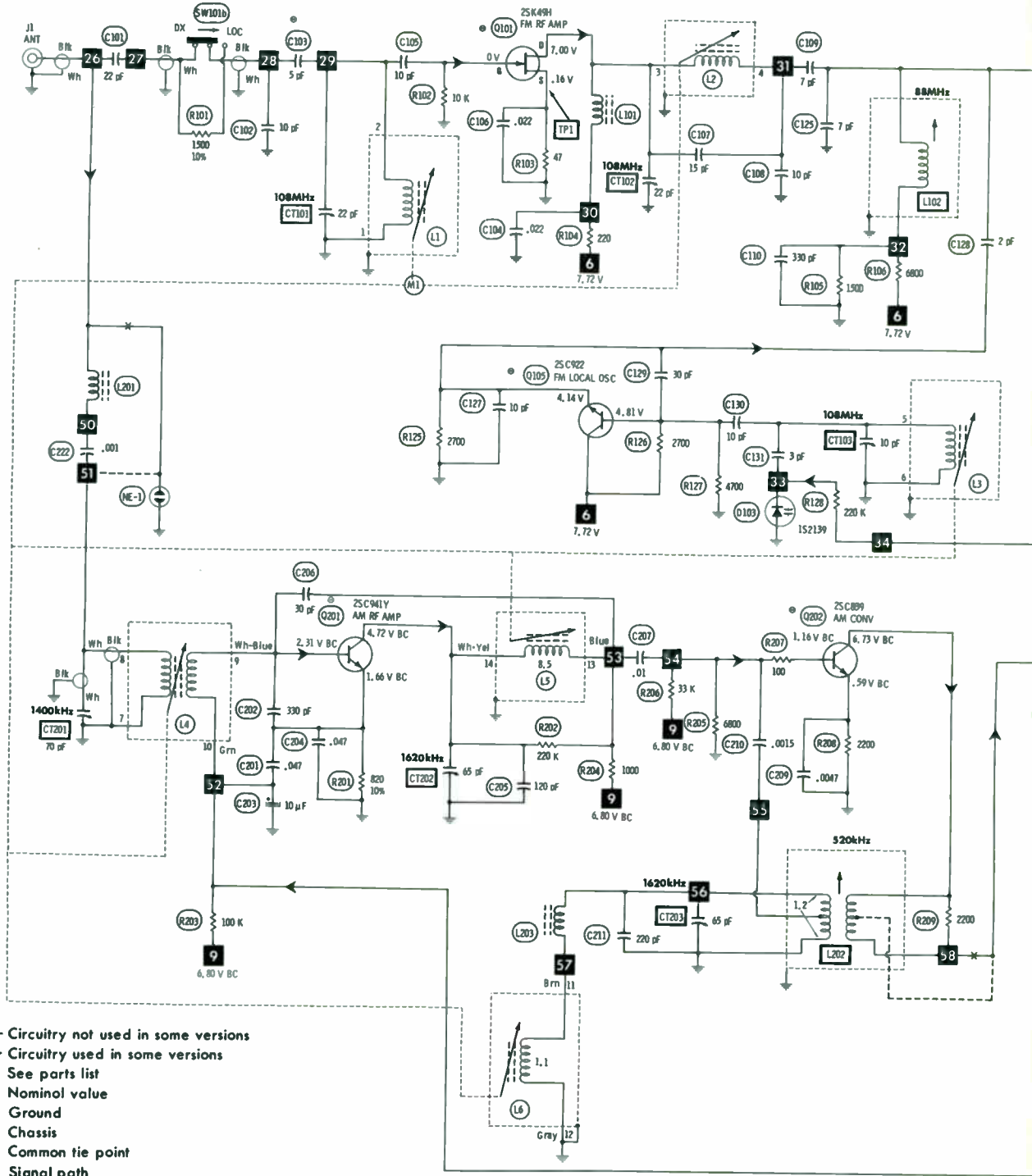
- Circuitry not used in some versions
 - - - Circuitry used in some versions
 - ⊙ See parts list
 - ⊛ Nominal value
 - ⊕ Ground
 - ⊞ Chassis
 - ∇ Common tie point
 - Signal path
 - ↗ Voltage path
- Measurements with switching as shown unless noted.
- Item numbers in rectangles appear in the alignment/adjustment instructions.
- Supply voltage maintained as shown of input.
- Voltages measured with digital meter, no signal.
- Controls adjusted for normal operation.
- Arrow of control indicates direction of advance.
- Terminal identification may not be found on unit.
- Resistors are 1/2W or less, 5% unless noted.
- Value in () used in some versions.



A PHOTOFACIT STANDARD NOTATION SCHEMATIC
WITH **CIRCUITRACE**

JIL MODEL 862

NOTE: DEMAGNETIZE HEADS AFTER SERVICING



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.

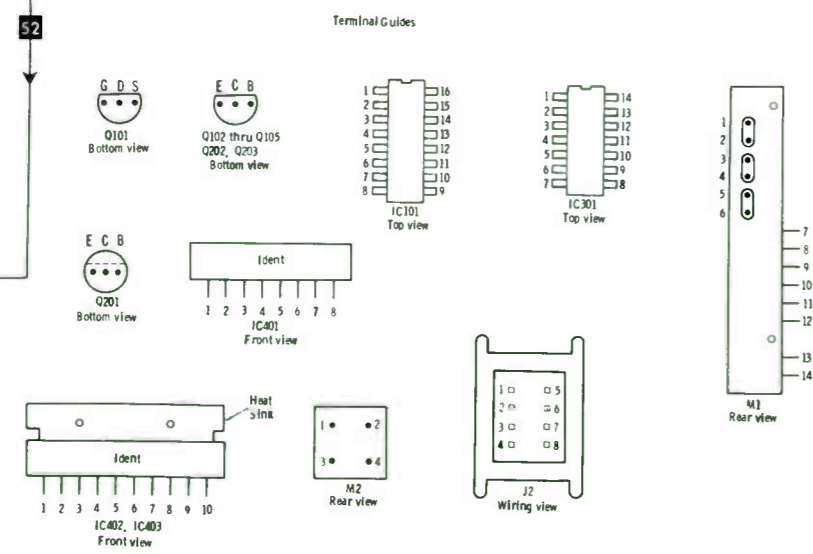
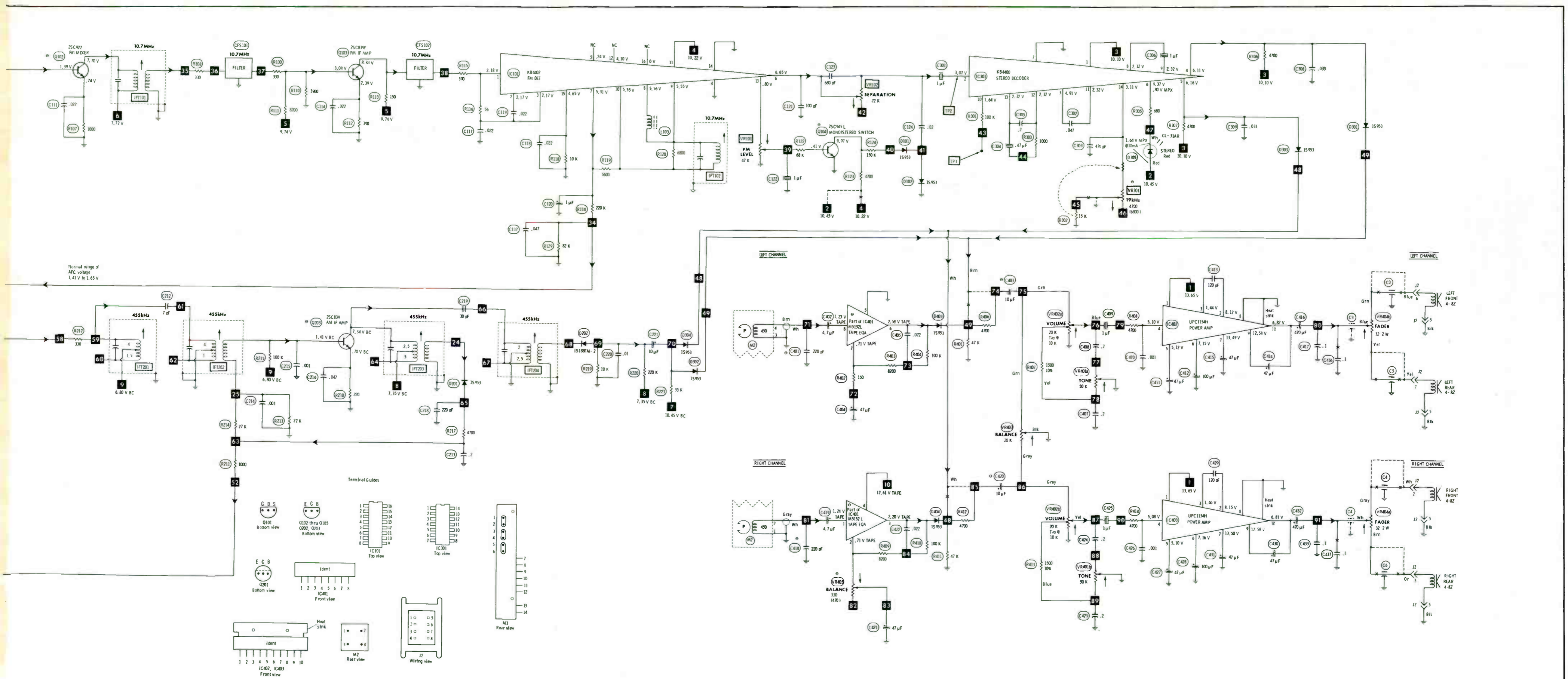
Terminal identification may not be found on unit.

Resistors are 1/2W or less, 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.	
						Q-LINE	GENERAL LINE
C1		44425/922304					
C2		(1)					
C3		(1)					
C4		(1)					
C5		(1)					
C6		(1)					
C7		(1)					
C101	22 NPO 5% 50V		DTZ-22	NP022	CN0422		10TCC-Q22
C102	10 NPO 50V		DTZ-10	NP010	CN0410		10TCC-Q10
C103	5 NPO 50V		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C104	.022 50V		UK50-223		MAG5012		
C105	10 NPO 50V		DTZ-10	NP010	CN0410		10TCC-Q10
C106	.022 50V		UK50-223		MAG5012		
C107	15 NPO 50V		DTZ-15	NP015	CN0415		10TCC-Q15
C108	10 NPO 50V		DTZ-10	NP010	CN0410		10TCC-Q10
C109	7 NPO 50V		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C110	330 50V		DD-331	GP330	GP333		10TS-T33
C111	.022 50V		UK50-223		MAG5012		
C114	.022 50V		UK50-223		MAG5012		
C115	.1 50V		UK50-503	WMF05P1	EMF05010	QFT2-215	1FT-P10
C116	.047 50V		UK50-503		MAG5015		
C117	.022 50V		UK50-223		MAG5012		
C118	.022 50V		UK50-223		MAG5012		
C119	.022 50V		UK50-223		MAG5012		
C121	100 50V		DTZ-100	NP0100	CN0310		10TCC-T10
C123	680 50V		DD-681	GP680	GP368	QFT2-127	10TS-T68
C124	.02 50V		DTZ-6R8	NP06P8	DPMS252		1FT-S22
C125	7 NPO 50V		UK50-223		CN0568		10TCC-V68
C126	.022 50V		UK50-223		MAG5012		
C127	10 NPO 50V		DTZ-10	NP010	CN0410		10TCC-Q10
C128	2 NPO 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C129	30 NPO 10% 50V	913286					
C130	10 N750 50V		DTN-10	N10	CN7410		10TCU-Q10
C131	3 N330 50V	913150					10TCS-T33
C132	.047 50V		UK50-503		MAG5015		
C201	.047 50V		DD-331	DPMS2547	EMF1A147	QFT2-171	1FT-S47
C202	330 50V		UK50-503	GP330	GP333		10TS-T33
C204	.047 50V		DTZ-120		MAG5015		
C205	120 50V		DTZ-120		CN0312		10TCC-T12
C206	30 NPO 10% 50V	913286					
C207	.01 50V		UK12-104	WMF1S1	EMF1A110	QFT2-91	1FT-S10
C208	.1 20% 12V				MAG1201		HY-360
C209	.0047 20% 50V				M192P4729R8	QFT2-63	1FT-D47
C210	.0015 50V				EMF6215	QFT2-13	1FT-D15
C211	220 N330 20% 50V	913241			*		10TCS-T22
C212	7 50V		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C213	.2 20% 12V		UK16-204				HY-470
C214	.001 20% 50V				DPMS601	QFT2-1	1FT-D10
C215	.001 20% 50V				DPMS601	QFT2-1	1FT-D10
C216	.047 50V		UK50-503		EMF1A210		
C217	.047 50V		UK50-503		MAG5015		
C218	220 10% 50V		DTZ-220		MAG5015		10TCC-T22
C219	30 50V	913171					
C220	.01 50V				WMF1S1	QFT2-91	1FT-S10
C302	.047 10% 50V				DPMS2547	QFT2-171	1FT-S47
C303	470 5% 50V		UK16-204	CD15FD471J03	SX347	Q1-42	MMA-471
C305	.2 20% 12V				M192P3339R8	QFT2-149	HY-470
C308	.033 10% 50V				M192P3339R8	QFT2-49	1FT-S33
C309	.033 10% 50V						10TCC-T22
C401	220 10% 50V		DTZ-220		M192P2239R8	QFT2-127	1FT-S22
C405	.022 50V						HY-470
C407	.2 20% 12V		UK16-204				HY-470
C408	.2 20% 12V		UK16-204				HY-470
C410	.001 50V				DPMS601	QFT2-1	1FT-D10
C413	120 50V		DTZ-120		CN0312	QFT2-1	10TCC-T12
C417	.1 10% 50V		DTZ-220	WMF05P1	EMF05010	QFT2-215	1FT-P10
C418	220 10% 50V		DTZ-220		M192P2239R8	QFT2-127	10TCC-T22
C422	.022 50V						1FT-S22
C423	.2 20% 12V		UK16-204				HY-470
C424	.2 20% 12V		UK16-204				HY-470
C426	.001 10% 50V				DPMS601	QFT2-1	1FT-D10
C429	120 50V	913115					
C433	.1 10% 50V				WMF05P1	QFT2-215	1FT-P10
C435	.1 10% 50V				WMF05P1	QFT2-215	1FT-P10
C436	.1 12V 20%		UK12-104		MAG1201		HY-360
C437	.1 12V 20%		UK12-104		MAG1201		HY-360
C504	.05 50V		UK50-503		MAG5015		
CT101	22pF	913423					
CT102	22pF	913423					
CT103	10pF	913422					
CT201	70pF	913271					
CT202	65pF	913424					
CT203	65pF	913424					

* Not normally in distributor's stock. Available thru distributor on order to manufacturer. (1) Part of Feedthru Assembly, C1.

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.
VR101	FM Level	47K	915428			U260R5038
VR102	Separation	22K	915262			U260R2538
VR301	19kHz	6800	915434			
VR401a	Tone-Left	50K	915456 (18)			
VR401b	Tone-Right	50K				
VR402a	Volume-Left	20K Tap 10K				
VR402b	Volume-Right	20K Tap 10K				
VR403	Balance	20K	915465			
VR404a	Fader-Left	32 2W	915349			
VR404b	Fader-Right	32 2W				
VR405	Tape Balance	470	915431			

(18) Includes VR401a, VR401b, VR402a, VR402b, SW3 and SW104.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
IFT101	IF (10.7MHz)	922501			(1) Part of M1 (Tuner).
IFT102	IF (10.7MHz)	923133			
IFT201	IF (455kHz)	922594			
IFT202	IF (455kHz)	922594			
IFT203	IF (455kHz)	922593			
IFT204	IF (455kHz)	922593			
L1	Tuner	(1)			
L2	Tuner	(1)			
L3	Tuner	(1)			
L4	Tuner	(1)			
L5	Tuner	(1)			
L6	Tuner	(1)			
L101	RF Choke (2.2uH)	913216			
L102	Mixer (88MHz)	922981			
L103	RF Choke (22uH)	923513			
L201	RF Choke (5.1uH)	913112			
L202	Convergence (520kHz)	922592			
L203	RF Choke (4.7uH)	913346			

JIL MODEL 862

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.	
CH401	115mA	.195	1.3mH	914027			

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.	
M4	240mA	.191	1.44mH				

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.

FUSE DEVICES

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

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF5101	Filter	922974	10.7MHz
CF5102	Filter	922974	10.7MHz
D305	LED	922878	Stereo (1.64V @ 10mA)
D503	LED	922878	Channel Indicator (1.64V @ 10mA)
D504	LED	922878	Channel Indicator (1.64V @ 10mA)
D505	LED	922878	Channel Indicator (1.64V @ 10mA)
D506	LED	922878	Channel Indicator (1.64V @ 10mA)
J1	Jack	922795	Antenna
J2	Jack	923207	Power/Speaker
LAMP1	Lamp	923151/923150	Dial (4.50V @ 45mA)
LAMP2	Lamp	923151/923150	Dial (4.65V @ 45mA)
M2	Head	917005	8-Track Stereo Play
M3	Motor	911019	Tape Transport (2400rpm @ 13.50V)
M5	Solenoid	920013	
NE1	Neon	923107	Headshift
SW1	Switch	912067	Supresser
SW2	Switch	21367	AM/FM
SW4	Switch	912070	Auto Program
SW101	Switch	912050	Radio/Tape
SW105	Switch	21372	LO/DX
	Printed Circuit Board	32203	Program Indicator
	Printed Circuit Board	30742	Indicator
	Printed Circuit Board	30741	Power Amp
	Printed Circuit Board	30741	Tuner

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

ITEM	PART No.	ITEM	PART No.
Case (Bottom)	45177	Knob (Tone)	44717
Case (Front)	44489	Knob (Tuning)	44116
Case (Top)	44490	Plate (Digital)	45067
Chassis (Tape)	21445	Plate (Rear)	45178
Escutcheon	45020	Plate (Button-LO/DX)	45069
Knob (AM/FM)	45014	Plate (Knob-AM/FM)	45068
Knob (Fader)	45115	Pushbutton (LO/DX)	45018
Knob (Power/Volume/Program)	44683		

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
Rear Seat Speaker Extension Cable	Use BELDEN No. 8401 or 8421
Bonding Strap	Use BELDEN No. 8782 (Stranded) Coded Parallel Leads
	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)

ALIGNMENT INSTRUCTIONS (Continued)

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

High side of generator thru .001uF to antenna.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to TPC.	T1,T10	Adjust for maximum.
"	"	DC probe of VTVM to TPA.	T2	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 antenna. 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 TPC.	T1,T10	Disconnect stabilizing capacitor C9. Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect C9.
"	"	Vert input of scope to TPA.	T2	Adjust T2 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.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Unmodulated	108MHz	DC probe of VTVM to speaker.	C94,C95,C96	Adjust for maximum.

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

FM STEREO ALIGNMENT USING AUDIO GENERATOR

High side of generator to TPA. Tune receiver off station.				
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS	
19kHz	Vert input of scope to TPB.	T4	Adjust for maximum 19kHz response.	
19kHz	Vert input of scope to TPD.	T3	Adjust for maximum 38kHz response.	

Tune receiver for a stereo signal. Adjust balance control for equal channel output. Adjust Separation control VR1 for best separation.



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



MODEL KID-566

KRACO MODELS KID-560D/-565A/-566

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:
 Trimmers 5000,8277
 ALL Transformers and Coils 5000,8277,9089

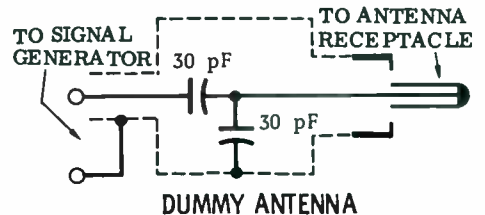


AM ALIGNMENT—SELECTOR IN AM POSITION

Connect output meter across speaker voice coil.

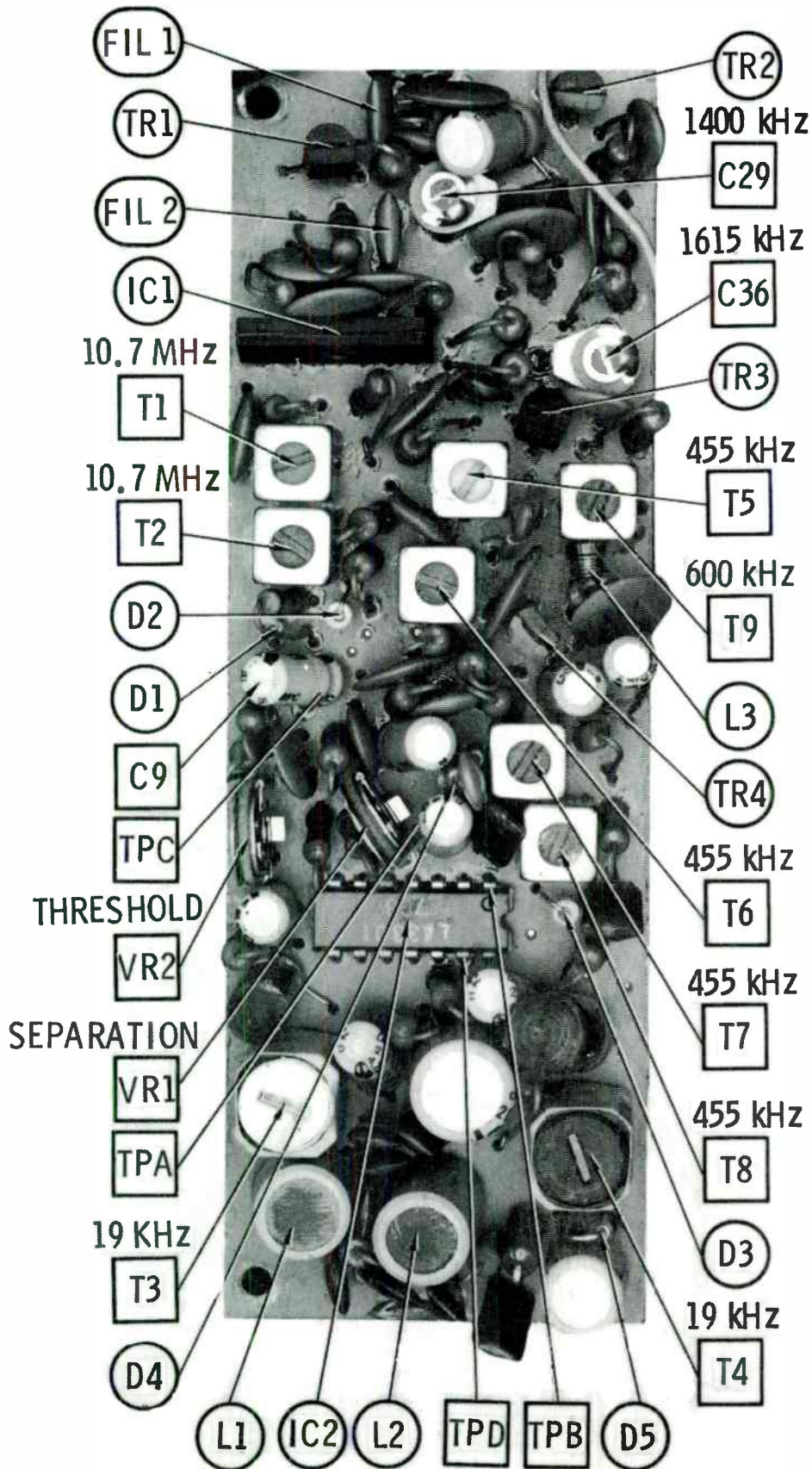
GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST	REMARKS
High side thru .1uF	455kHz 400-Hz mod.	High freq end stop	T8, T7, T6, T5	Adjust for maximum.
Thru dummy antenna to antenna input.	600kHz 400-Hz mod.	600kHz	T9	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz 400-Hz mod.	1615kHz	C36	Adjust for maximum.
Thru dummy antenna to antenna input.	1400kHz 400-Hz mod.	1400kHz	C29, C26	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 C26 for maximum output. Antenna adjustment is located at right rear of tape compartment.



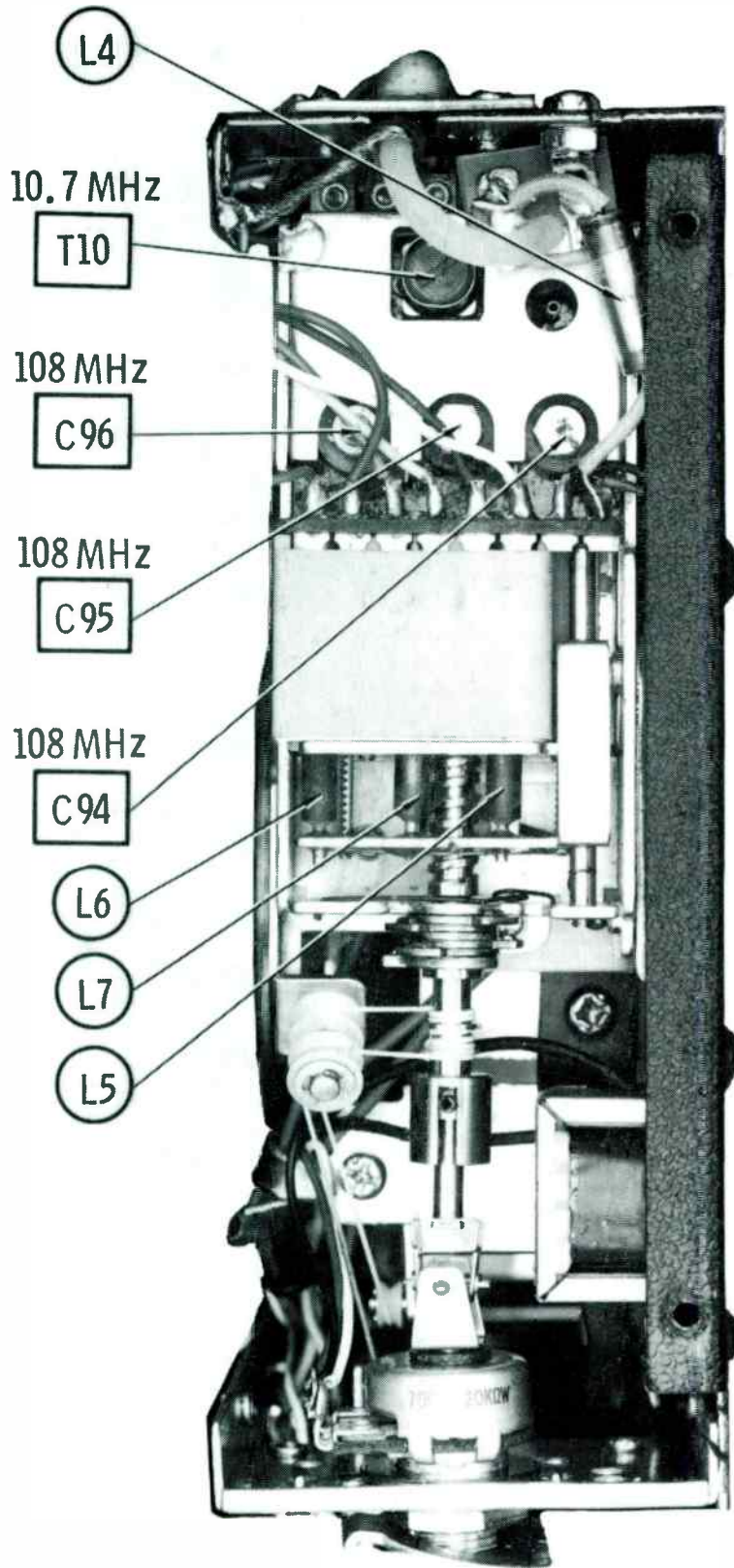
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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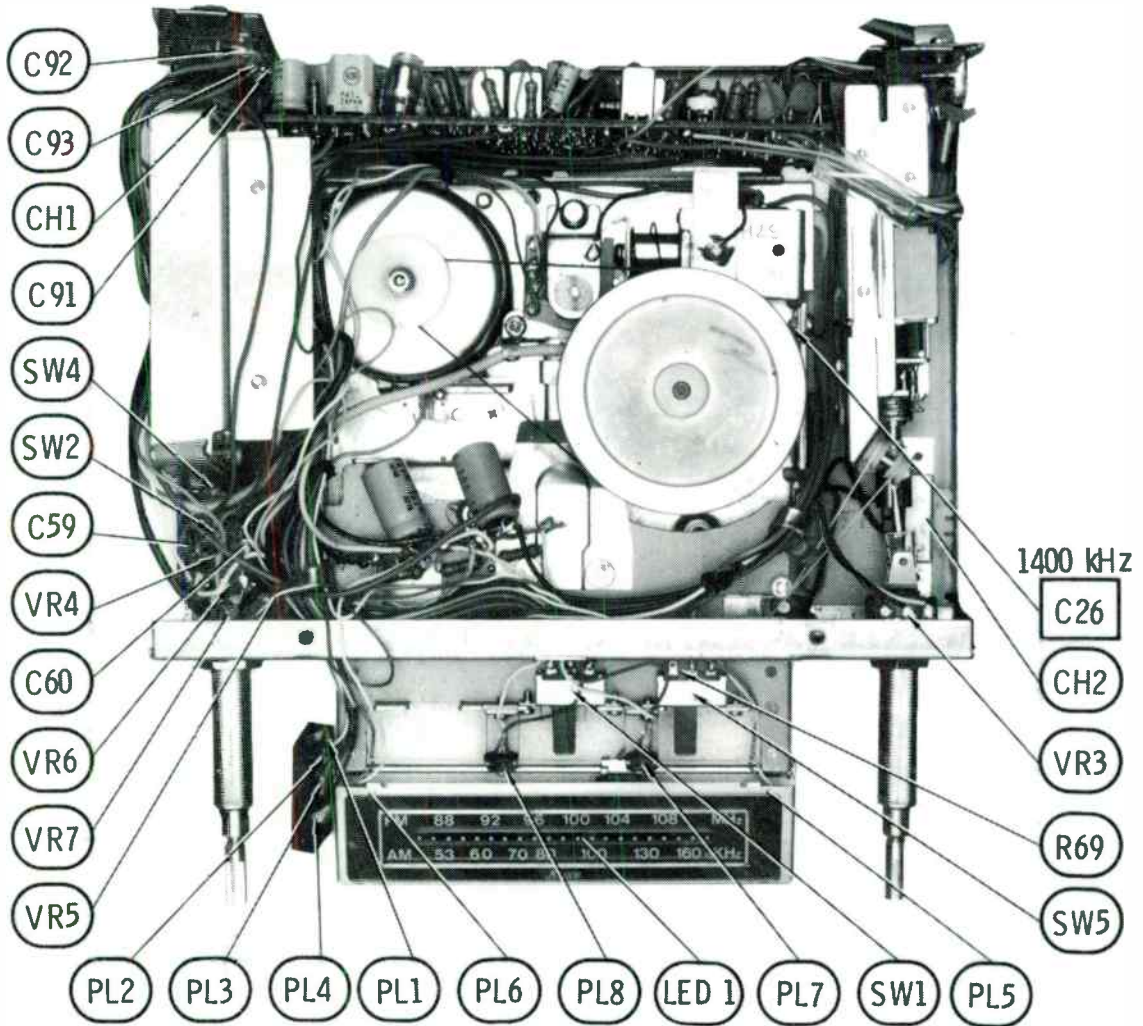


KRACO MODELS KID-560D/-565A/-566

MAIN BOARD



OVERALL-SIDE



OVERALL-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 8 for maximum on meter across output.
Head Height	Play a test cartridge, follow instructions with cartridge, and adjust Nut 9 for proper response.

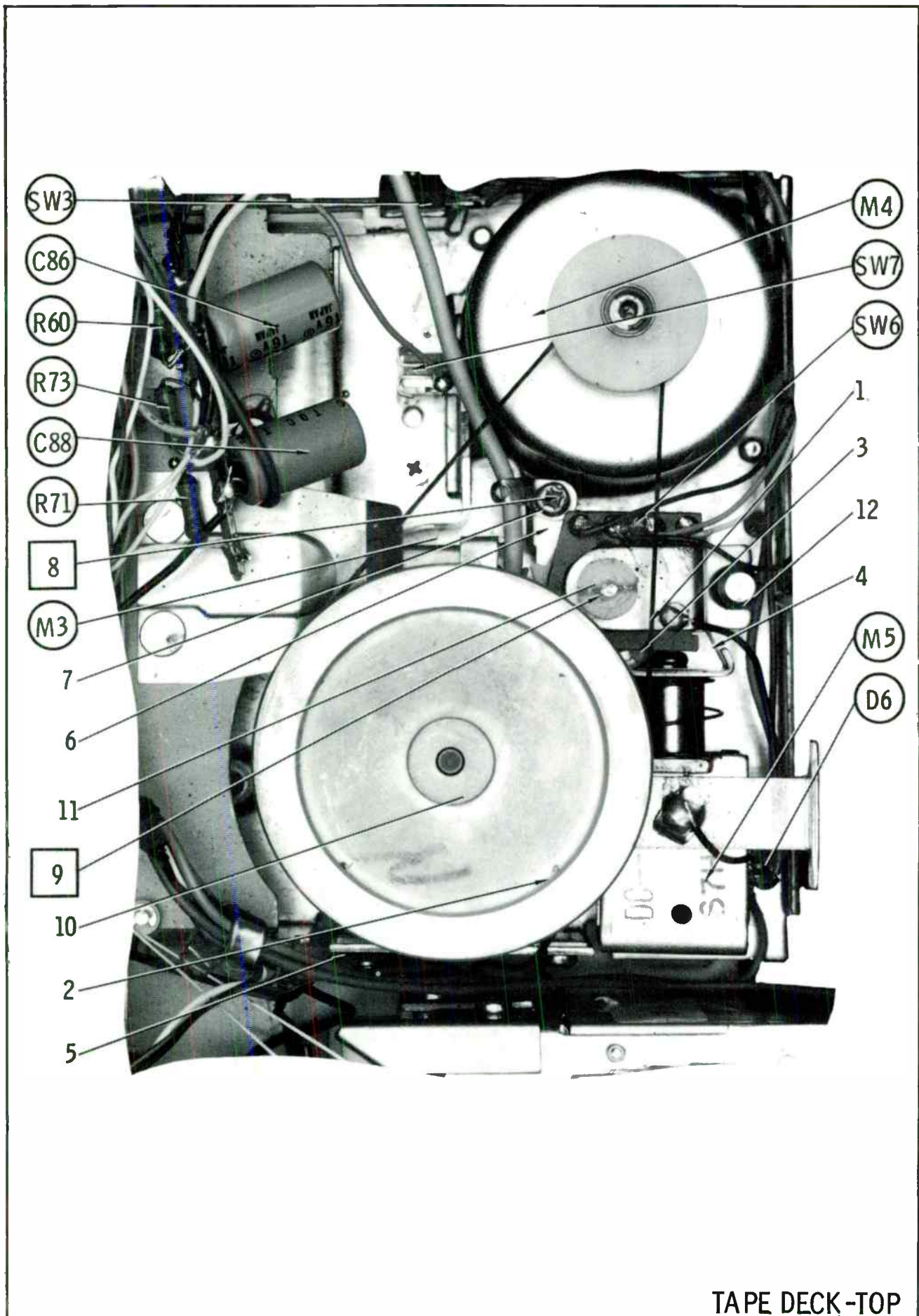
TROUBLE CHART

SYMPTOM	REMARKS
Capstan does not rotate.	Belt 1 dirty, worn, or broken. Assembly 10 binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch SW7 dirty. Cam 3 binding or worn. Pawl 4 worn. Assembly 6 binding. Solenoid M5 defective or not supplied with power. Cartridge defective.
Wow or flutter	Belt 1 dirty or worn. Capstan dirty or binding. Cartridge defective. Motor defective.
Sound weak or distorted	Head dirty, misaligned, or defective. Cartridge defective. Amplifiers defective.
Tape is pulled from cartridge.	Cartridge defective. Capstan dirty or scored.

MECHANICAL PARTS LIST

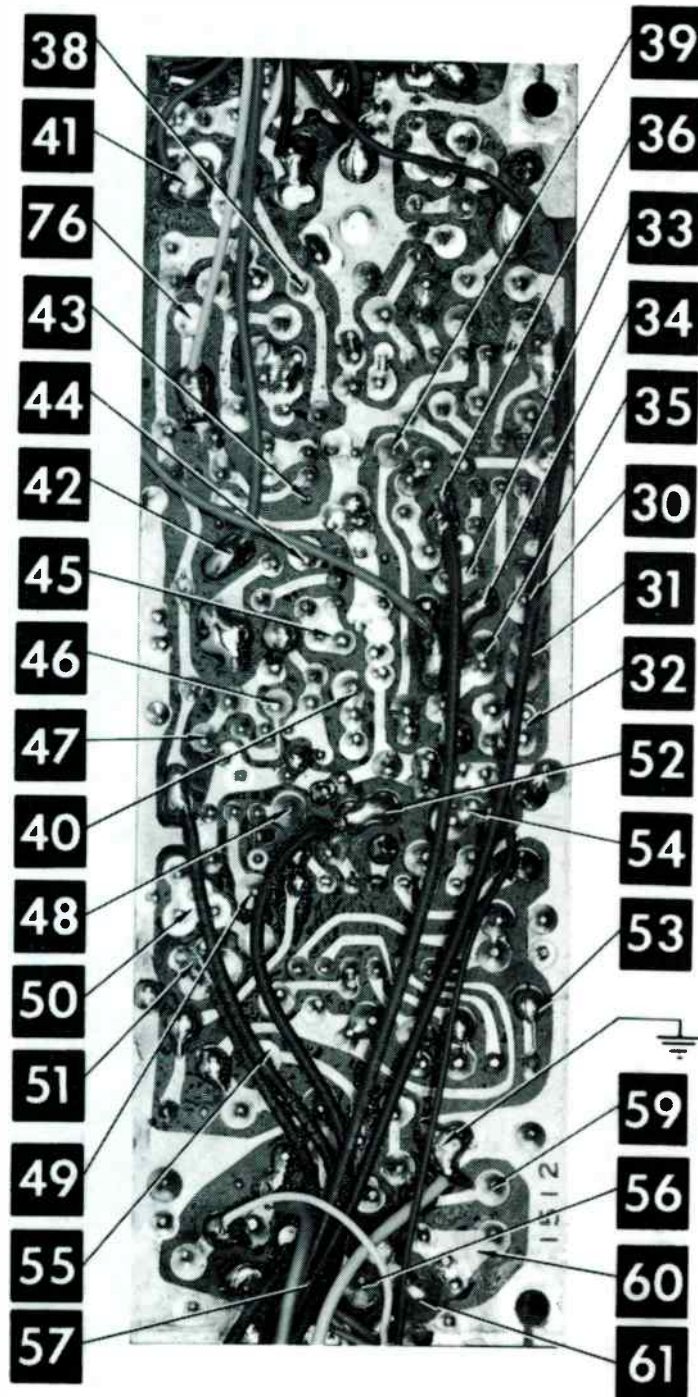
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1*	KD566-A4-00179*	Flywheel Drive Belt*	7	KD566-A4-00078	Azimuth Spring
2	KD566-A4-00172	Flywheel	8	KD566-A4-00084	Azimuth Adjust Screw
3		Track Changing Cam	9		Height Adjust Nut
4	KD566-A3-00015	Pawl	10		Flywheel Bearing Assembly
5		Cartridge Detent Arm	11		Head Lifting Spring
6		Head Shifting Assembly	12		Head Tension Spring

* Flywheel Drive Belt: E-V/GAME Replacement Number 1416.
WALSCO Replacement Number 1424-24.

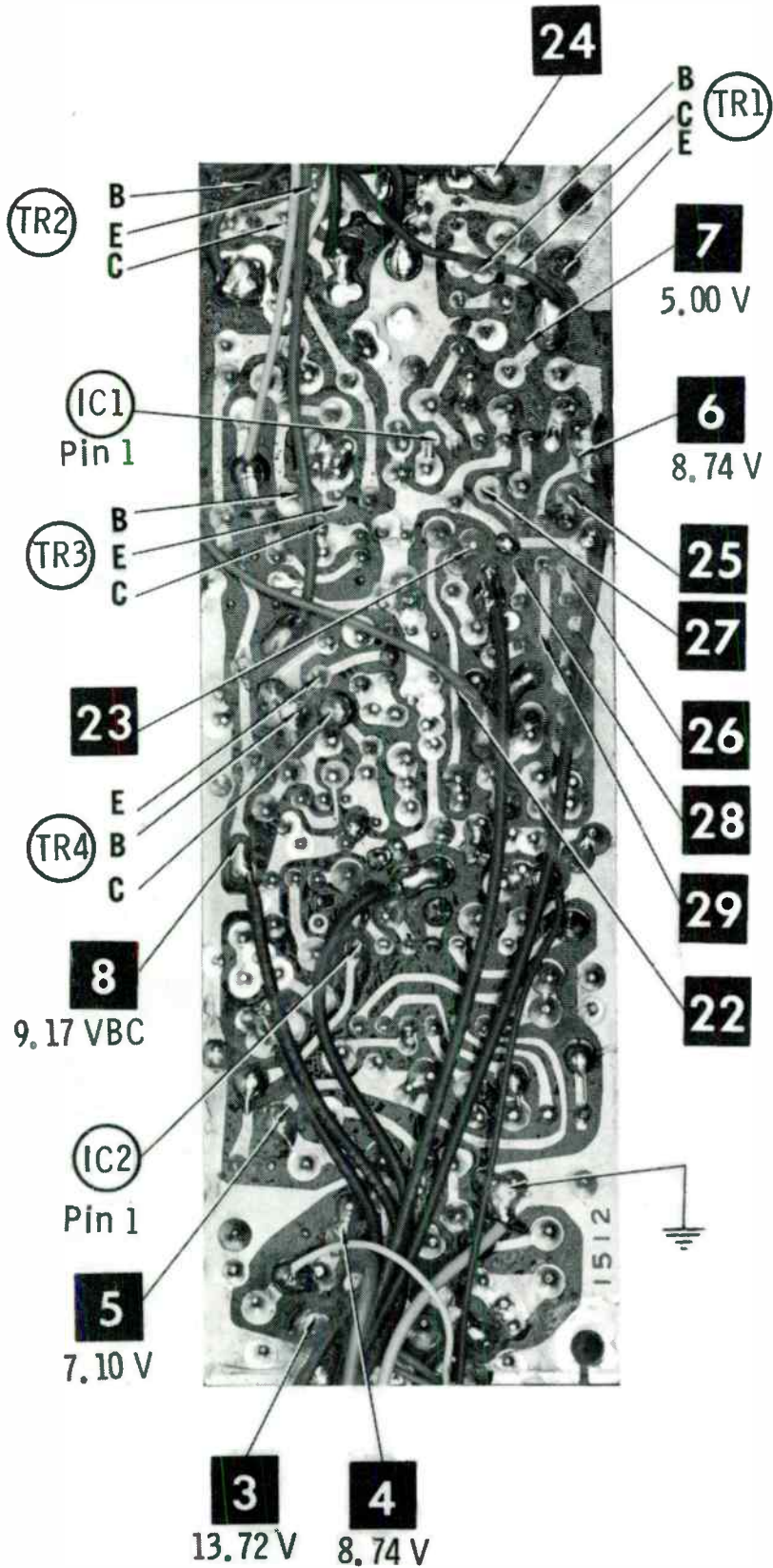


KRACO MODELS KID-560D/-565A/-566

TAPE DECK -TOP

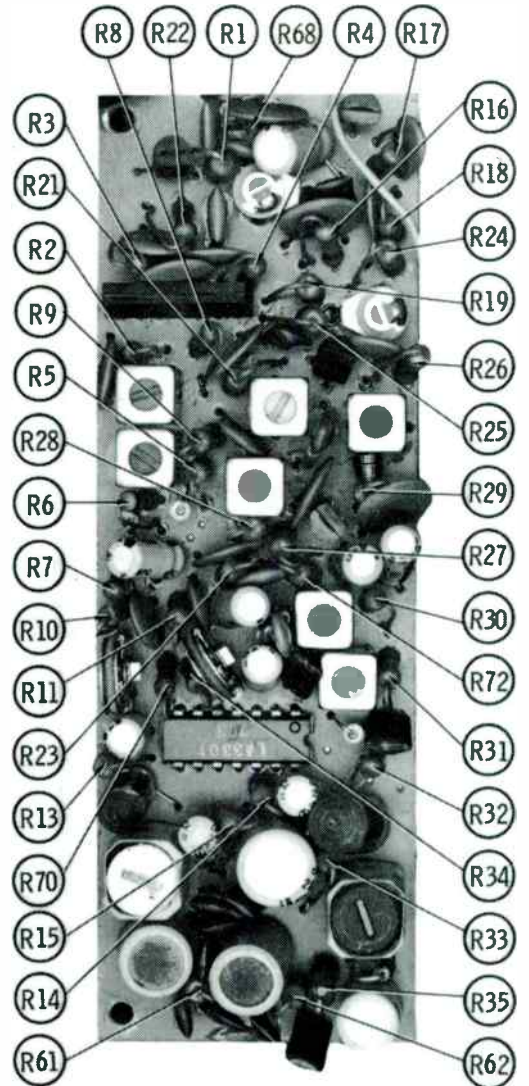
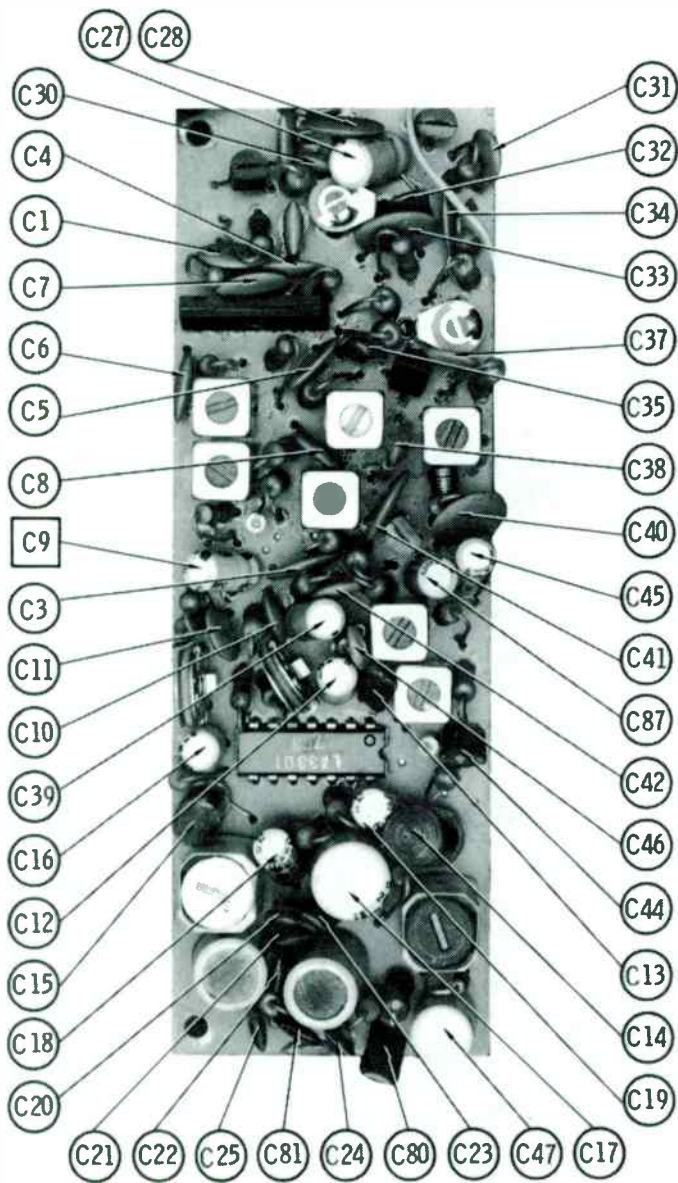


MAIN BOARD

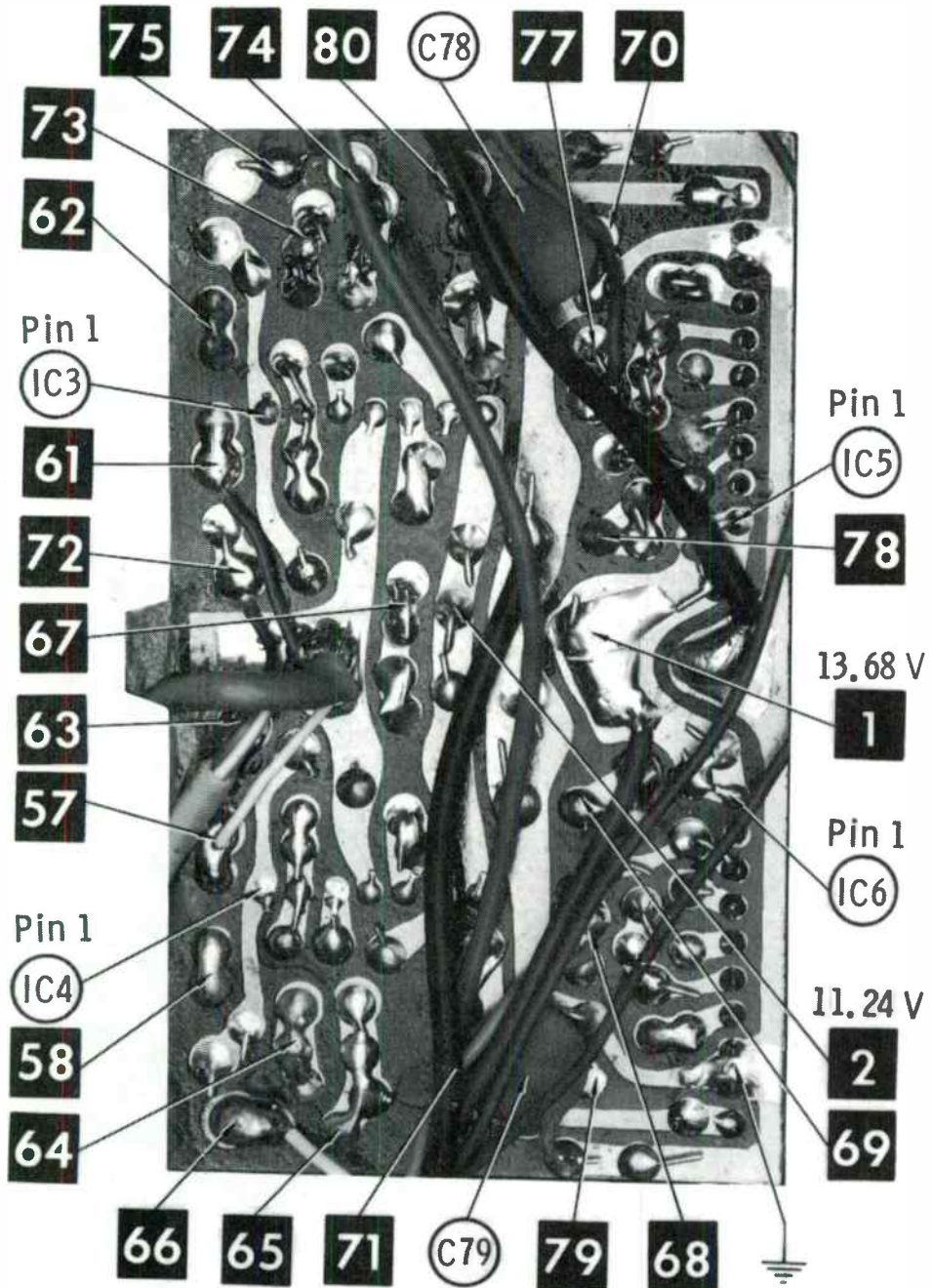


KRACO MODELS KID-560D/-565A/-566

MAIN BOARD



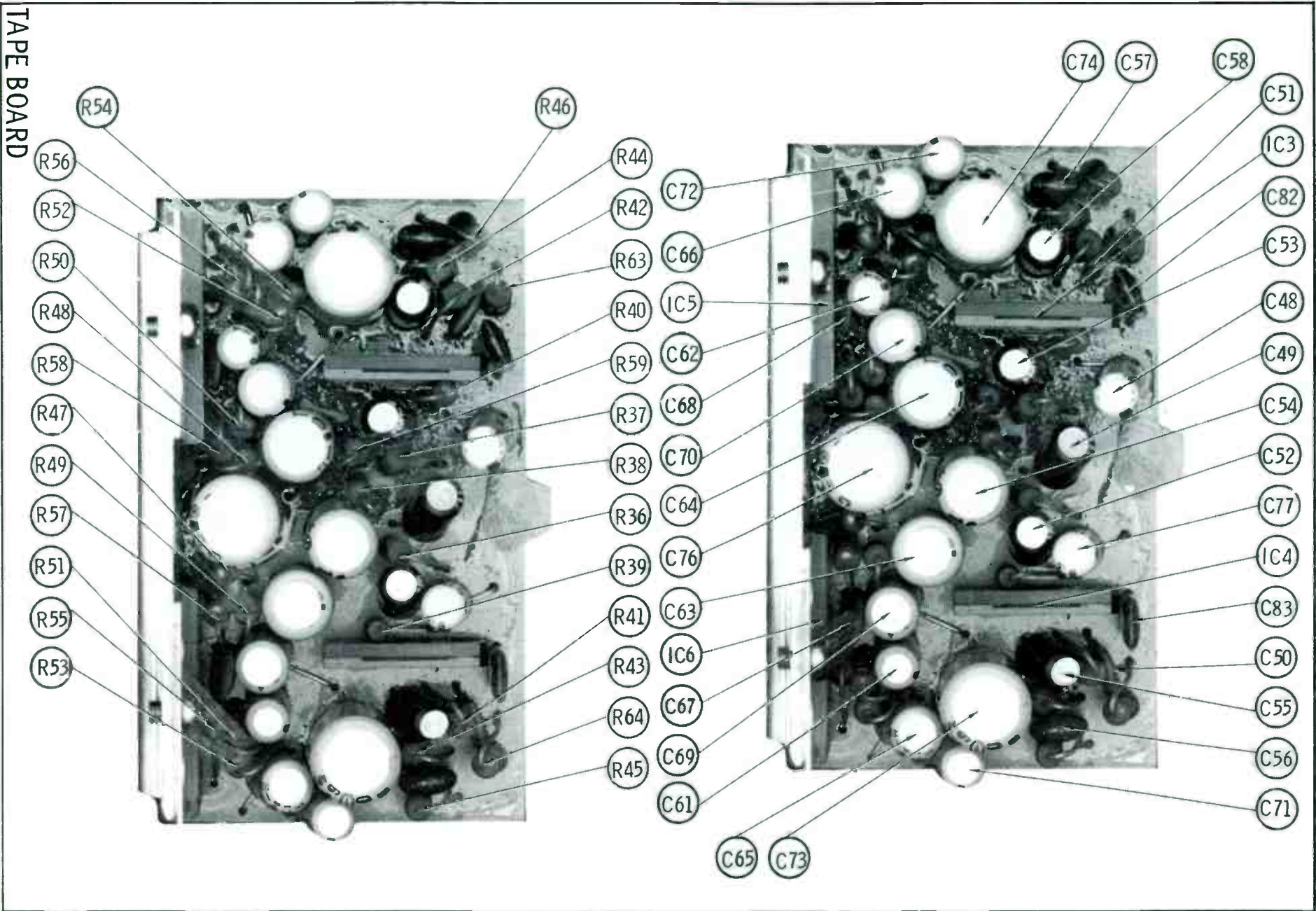
MAIN BOARD



KRACO MODELS KID-560D/-565A/-566

TAPE BOARD

TAPE 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 BELOEN No. 8530 (Solid) Available in 13 Colors 8524 (Stranded) Available in 13 Colors
Shielded Hook-up Wire	Use BELOEN No. 8401 or 8421
Rear Seat Speaker Extension Cable	Use BELOEN No. 8782 (Stranded) Coded Parallel Leads
Bonding Strap	Use BELOEN 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	1N60	1N60 1N60(7)	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430		
O2	1N60		1N60(7)	PTC206M(6)	HEPR9135(7)	RE 86(6)	SK3088(7)	RT-263(7)	ECG110(6)	1N60(7)	WEP134(7)	ZEN-430(7)		
D3	1N60		1N60 GE20-9.1 GE-504A GEIC-140 GEIC-38 GEIC-42 GEIC-135 GEIC-135	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430		
D4	1N60			PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430		
O5	1Z9.1			GE20-9.1	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139	1N4739A	WEP1109	103-272	
O6	1S1885			GE-504A	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76	
IC1	UPC577H			GEIC-140	PTC721	HEPC6094P	RE 341-M	SK3461	TYCM-6	ECG1082	UPC577H	WEP939		
IC2	LA3301			GEIC-38			RE 326-IC	SK3358	TYCM-6	ECG1006	LA3301	WEP125		
IC3	UPC566H			GEIC-42			RE 336-IC		TYCM-82	ECG1005	LA3300	WEP2214		
IC4	UPC566H			GEIC-135			RE 327-IC	SK3249	TYCM-82	ECG1052	UPC566H			
IC5	UPC1025H			GEIC-135			RE 339-IC	SK3249	TYCM-82	ECG1052	UPC566H			
IC6	UPC1025H			GEIC-135			RE 339-IC	SK3213		ECG1081A				
TR1	2SC839			GE-61*			PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG1081A	2SC839	WEP2195
TR2	2SC839H,F	GE-61*		PTC132*			HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120
	2SC829B	GE-20*		PTC121*			HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	2SC829	WEP829	ZEN-127
	2SC829	GE-20*	PTC121*	HEPS0015*			RE 9*	SK3444	RT-308	ECG229*	2SC829	WEP829	ZEN-127	
TR3	2SC839H,F	GE-61*	PTC132*	HEPS0015*			RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120	
	2SC829B	GE-20*	PTC121*	HEPS0015*			RE 9*	SK3444	RT-308	ECG229*	2SC829	WEP829	ZEN-127	
	2SC829	GE-20*	PTC121*	HEPS0015*			RE 9*	SK3444	RT-308	ECG229*	2SC829	WEP829	ZEN-127	
TR4	2XC839	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120			
	2SC839H,F	GE-61*	PTC132*	HEPS0015*	RE 13*	SK3444*	RT-308	ECG123A*	2SC839	WEP736*	ZEN-120			
	2SC829B	GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	2SC829	WEP829	ZEN-127			
2SC829	GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	2SC829	WEP829	ZEN-127				

* Lead configuration may vary from original.

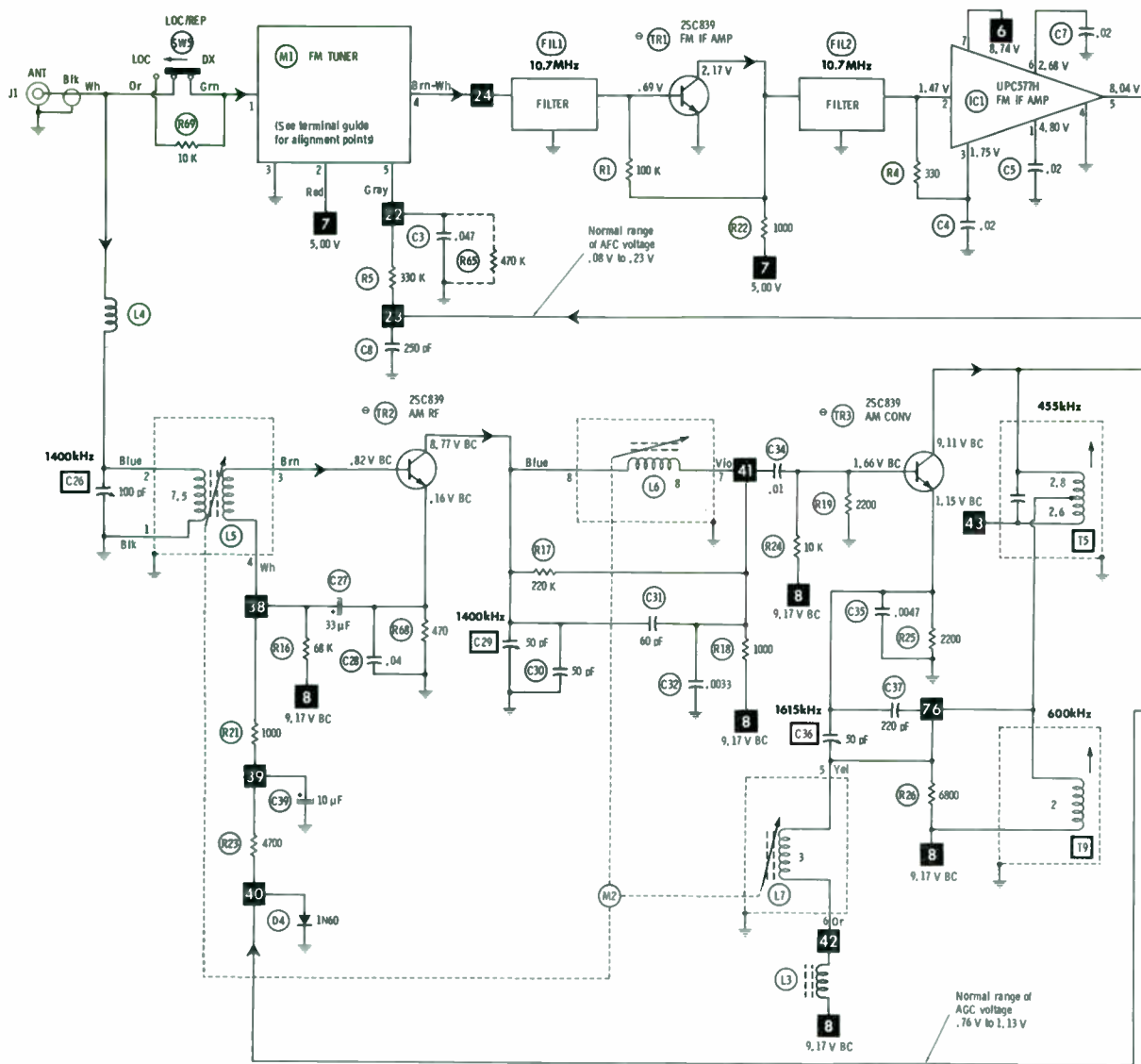
(6) Matched pair.

(7) Two required - select matched pair.

KRACO MODELS KID-560D/-565A/-566

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C9	4.7 25V		PC5-50	VTT4R7B50	QV1-27	EV-1319
C12	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C16	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C17	220 16V		PC250-25	VTT220H16	QV1-117	EV-1240
C18	4.7 25V		PC5-50	VTT4R7B50	QV1-27	EV-1319
C19	4.7 25V		PC5-50	VTT4R7B50	QV1-27	EV-1319
C27	33 10V		PC30-25	VTT33D25	QV1-63	EV-1325
C39	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C45	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C47	100 16V		PC100-16	VTT100F16	QV1-95	EV-1230
C48	4.7 25V		PC5-50	VTT4R7B50	QV1-27	EV-1319
C49	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C52	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C53	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C54	100 16V		PC100-16	VTT100F16	QV1-95	EV-1230
C55	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C58	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C61	1 25V		PC1-50	VTT1A50	QV1-9	EV-1315
C62	1 25V		PC1-50	VTT1A50	QV1-9	EV-1315
C63	100 16V		PC100-16	VTT100F16	QV1-95	EV-1230
C64	100 16V		PC100-16	VTT100F16	QV1-95	EV-1230
C65	47 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C66	47 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C69	33 10V		PC30-25	VTT33D25	QV1-63	EV-1325
C70	33 10V		PC30-25	VTT33D25	QV1-63	EV-1325
C71	1 25V		PC1-50	VTT1A50	QV1-9	EV-1315
C72	1 25V		PC1-50	VTT1A50	QV1-9	EV-1315
C73	470 16V		PC500-16	VTT470K16	QV1-151	EV-1250
C74	470 16V		PC500-16	VTT470K16	QV1-151	EV-1250
C76	470 16V		PC500-16	VTT470K16	QV1-151	EV-1250
C77	4.7 25V		PC5-50	VTT4R7B50	QV1-27	EV-1319
C85	470 16V		PC500-16	VTT470K16	QV1-151	EV-1250
C86	470 16V		PC500-16	VTT470K16	QV1-151	EV-1250
C87	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C88	470 16V		PC500-16	VTT470K16	QV1-151	EV-1250



- *— 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

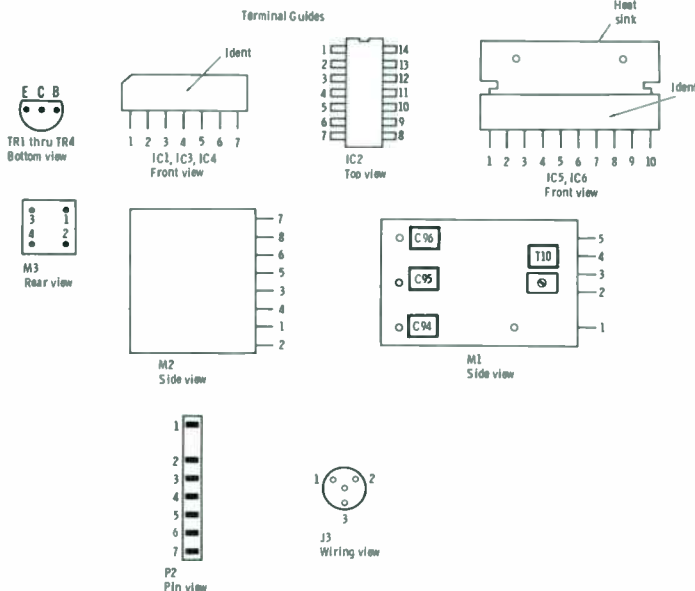
Measurements with switching as shown unless noted.

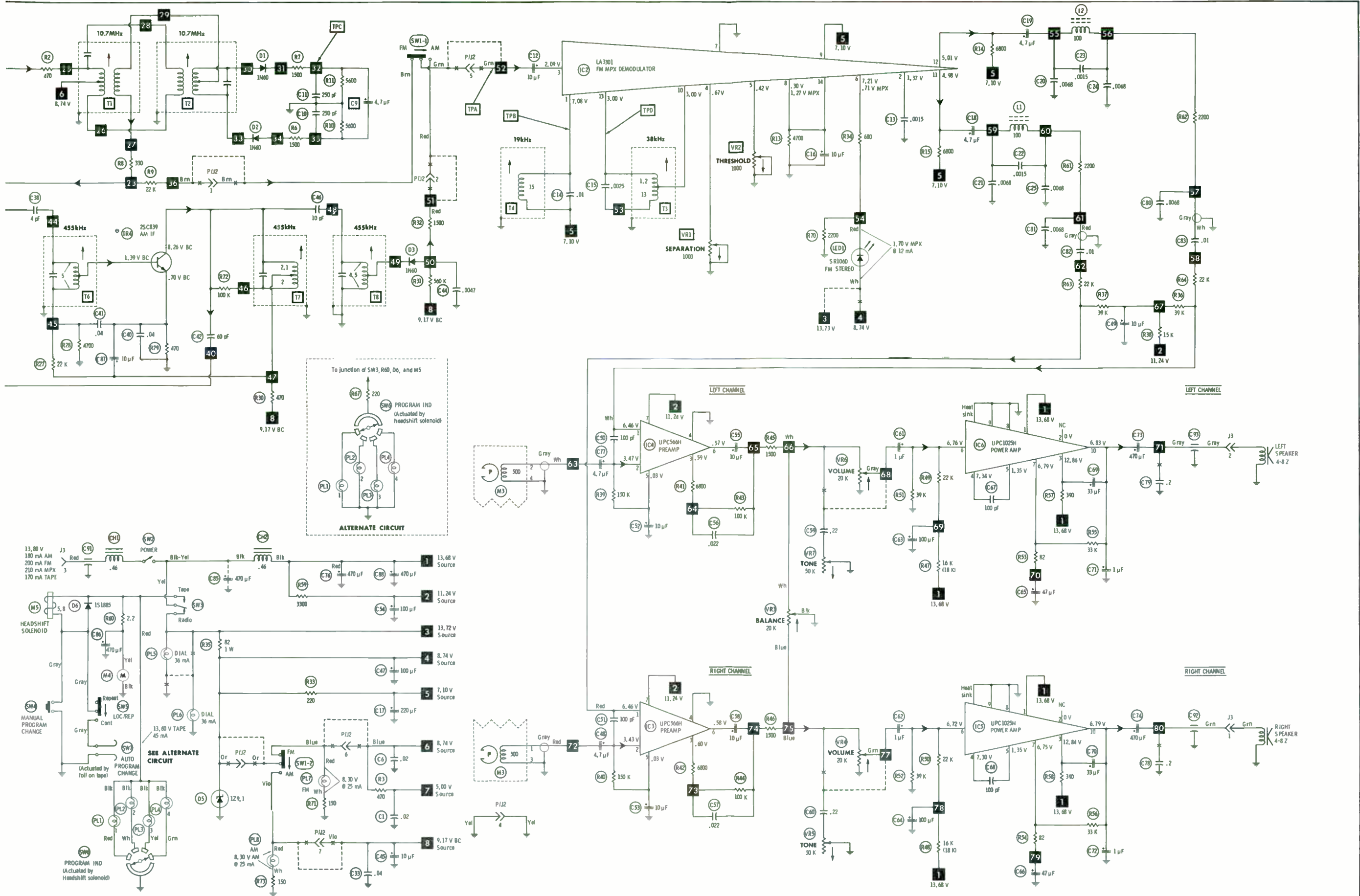
Item numbers in rectangles appear in the alignment/adjustment instructions. Supply voltage maintained as shown at input. Voltages measured with digital meter, no signal. Controls adjusted for normal operation. Arrow at control indicates direction of advance. Terminal identification may not be found on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

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE**

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KRACO MODELS KID-560D/-565A/-566

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	.02		UK50-223		MAG5012		
C3	.047		UK25-503		MAG2515		HY-735
C4	.02		UK50-223		MAG5012		
C5	.02		UK50-223		MAG5012		
C6	.02		UK50-223		MAG5012		
C7	.02		UK50-223		MAG5012		
C8	250			CD15FD241J03	SX324	QW1-36	MMA-241
C10	250			CD15FD241J03	SX324	QW1-36	MMA-241
C11	250			CD15FD241J03	SX324	QW1-36	MMA-241
C13	.0015 10%			DPMS6D15	EMF6215	QFT2-13	1FT-D15
C14	.01		UK25-103		MAG2511		HY-520
C15	.0025		DD-272		GP227	QC2-103	5GA-D27
C20	.0068 10%			WMF1D68	EMF1A268	QFT2-73	1FT-D68
C21	.0068 10%			WMF1D68	EMF1A268	QFT2-73	1FT-D68
C22	.0015 10%			DPMS6D15	EMF6215	QFT2-13	1FT-D15
C23	.0015 10%			DPMS6D15	EMF6215	QFT2-13	1FT-D15
C24	.0068 10%			WMF1D68	EMF1A268	QFT2-73	1FT-D68
C25	.0068 10%			WMF1D68	EMF1A268	QFT2-73	1FT-D68
C26	100pF						
C28	.04				GP140		5GA-540
C29	50pF						
C30	50		DTZ-50	NP050	CN0450		10TCC-Q50
C31	60			CD15ED620J03	SX462	QW1-22	MMA-620
C32	.0033 10%				M192P3329R8	QFT2-43	1FT-D33
C33	.04				GP140		5GA-540
C34	.01		UK25-103		MAG2511		HY-520
C35	.0047		DD-472	GP4700	GP247		5GA-D47
C36	50pF						
C37	220		DD-221		GP322		10TS-T22
C38	4			CD15CD050D03		QW1-2	MMA-050
C40	.04				GP140		5GA-540
C41	.04				GP140		5GA-540
C42	60			CD15ED620J03	SX462	QW1-22	MMA-620
C44	.0047				M192P4729R8	QFT2-63	1FT-D47
C46	10		DTZ-10	NP010	CN0410		10TCC-Q10
C50	100		DD-101	GP100	GP310		10TS-T10
C51	100		DD-101	GP100	GP310		10TS-T10
C56	.022 10%				M192P2239R8	QFT2-127	1FT-S22
C57	.022 10%				M192P2239R8	QFT2-127	1FT-S22
C59	.22 12V		UK12-204		MAG12022		HY-370
C60	.22 12V		UK12-204		MAG12022		HY-370
C67	100		DD-101	GP100	GP310		10TS-T10
C68	100		DD-101	GP100	GP310		10TS-T10
C78	.2 12V		UK16-204				HY-470
C79	.2 12V		UK16-204				HY-470
C80	.0068 10%			WMF1D68	EMF1A268	QFT2-73	1FT-D68
C81	.0068 10%			WMF1D68	EMF1A268	QFT2-73	1FT-D68
C82	.01 10%			WMF1S1	EMF1A110	QFT2-91	1FT-S10
C83	.01 10%			WMF1S1	EMF1A110	QFT2-91	1FT-S10
C91	Feed Thru						
C92	Feed Thru						
C93	Feed Thru						
C94							
C95		(1)					
C96		(1)					

(1) Part of FM Tuner, M1.

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.
VR1	Separation Threshold	1000				X260R102B(2)
VR2	Threshold	1000				X260R102B(2)
VR3	Balance	20K	(18)			
VR4	Volume-Right	20K				
VR5	Tone-Right	50K				
VR6	Volume-Left	20K				
VR7	Tone-Left	50K				
	Power Switch/Manual Program Switch					

(2) Cut off one of the end terminals and bend to fit PC board.

(18) Includes VR4, VR5, VR6, VR7, S2 and S4.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (40mH)	KD566-COIL40UH			
L2	RF Choke (40mH)	KD566-COIL40UH			
L3	RF Choke				
L4	RF Choke				
L5	Tuner				
L6	Tuner				
L7	Tuner				
T1	FM IF (10.7MHz)	KD566-COIL7982			
T2	FM IF (10.7MHz)	KD566-COIL7982			
T3	MPX Output (38kHz)	KD566-COIL7982			
T4	MPX Input (19kHz)	KD566-COIL1849			
T5	AM IF (455kHz)				
T6	AM IF (455kHz)				
T7	AM IF (455kHz)				
T8	AM IF (455kHz)				
T9	Oscillator	KD566-COIL9659			

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~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
CH-1	210mA	.46	6mH				

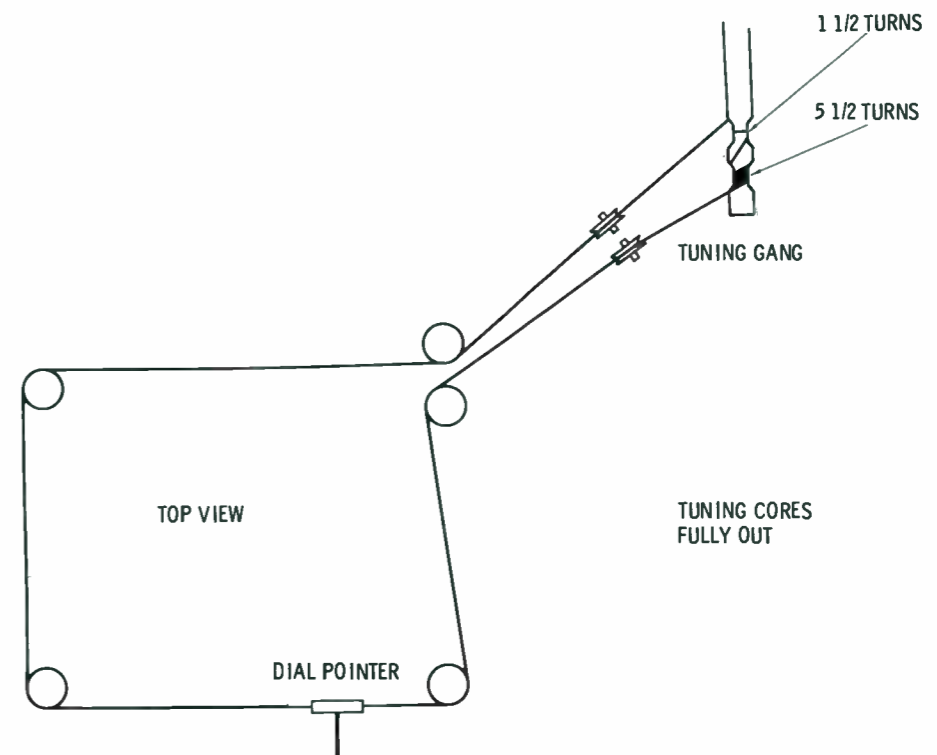
MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
FIL1	Filter	KD566-10.7MHz	10.7MHz
FIL2	Filter	KD566-10.7MHz	10.7MHz
J1	Jack	KD566-A4-00543	Antenna
LED1	LED	A4-01120	FM Stereo (1.70V @ 12mA)
M3	Head	KD566-A4-00048	8-Track Stereo Play
M4	Motor	KD566-A4-00235	Tape Transport (2400 rpm @ 13.60V)
M5	Solenoid	KD566-A4-00614	Headshift
PL1	Lamp	KD65A-A4-01121	Program Indicator (13.80V @ 40mA)
PL2	Lamp	KD65A-A4-01121	Program Indicator (13.80V @ 40mA)
PL3	Lamp	KD65A-A4-01121	Program Indicator (13.80V @ 40mA)
PL4	Lamp	KD65A-A4-01121	Program Indicator (13.80V @ 40mA)
PL5	Lamp	KD566-A4-01120	Dial (13.80V @ 36mA)
PL6	Lamp	KD566-A4-01120	Dial (13.80V @ 36mA)
SW1	Switch	A400328	AM/FM
SW2	Switch		Power (Part of Volume Control)
SW3	Switch		Tape/Radio
SW4	Switch		Manual/Program Changer (Part of Volume Control)
SW5	Switch	A400328	Loc/Dx
SW6	Switch		Program Indicator (Actuated by solenoid)
SW7	Switch		Auto Program (Actuated by foil on tape)
	Printed Circuit Board	A3-00267	Radio
		A4-01127	Audio Amp
		A4-01061	Lamp

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

ITEM	PART No.	ITEM	PART No.
Cap (Bottom)	KD566-A2-00081	Knob (AM-FM)	KD566-A4-01042
Cap (Rear)	KD566-A2-00254	Knob (Loc-Dx)	KD65A-A4-00554
Cap (Top)	KD566-A2-00080	Panel (Front)	KD566-A2-00110
Face (Front)	KD65A-A2-00097	Dust Cover Assembly	KD65A-A4-00560A

DIAL CORD STRINGING





For Supplier Address See PHOTOFACT Index



MODEL CQ-6700EU

PANASONIC MODELS CQ-841EU, CQ-6700EU

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:
 IFT. 9440
 All other Coils. 5000, 8277, 9089
 Trimmers 5000, 8277, 9089

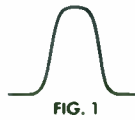


FIG. 1

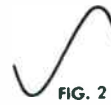


FIG. 2

PUSH-BUTTON ADJUSTMENT

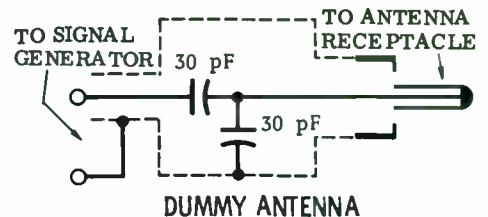
1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

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	450kHz 400-Hz mod.	High freq end stop	IFT101 IFT100	Adjust for maximum.
Thru dummy antenna to antenna input.	540kHz 400Hz mod.	540	L103	Adjust for maximum.
Thru dummy antenna to antenna input.	1600kHz 400Hz mod.	1600	C110	Adjust for maximum.
Thru dummy antenna to antenna input.	1400kHz 400Hz mod.	1400	C105,C100	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 C100 for maximum output. Antenna adjustment is located through hole in lower right corner of Dial Face.



ALIGNMENT INSTRUCTIONS (Continued)

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

High side of generator thru .001uF to antenna.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to TPC.	T151, IFT	Adjust for maximum.
"	"	DC probe of VTVM to TPA.	T152, VR151	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 antenna. 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 TPC.	T151, IFT	Disconnect stabilizing capacitor C161. Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect C161.
"	"	Vert input of scope to TPA.	T152, VR151	Adjust T152 for maximum amplitude and straightness of line, similar to Fig. 2.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

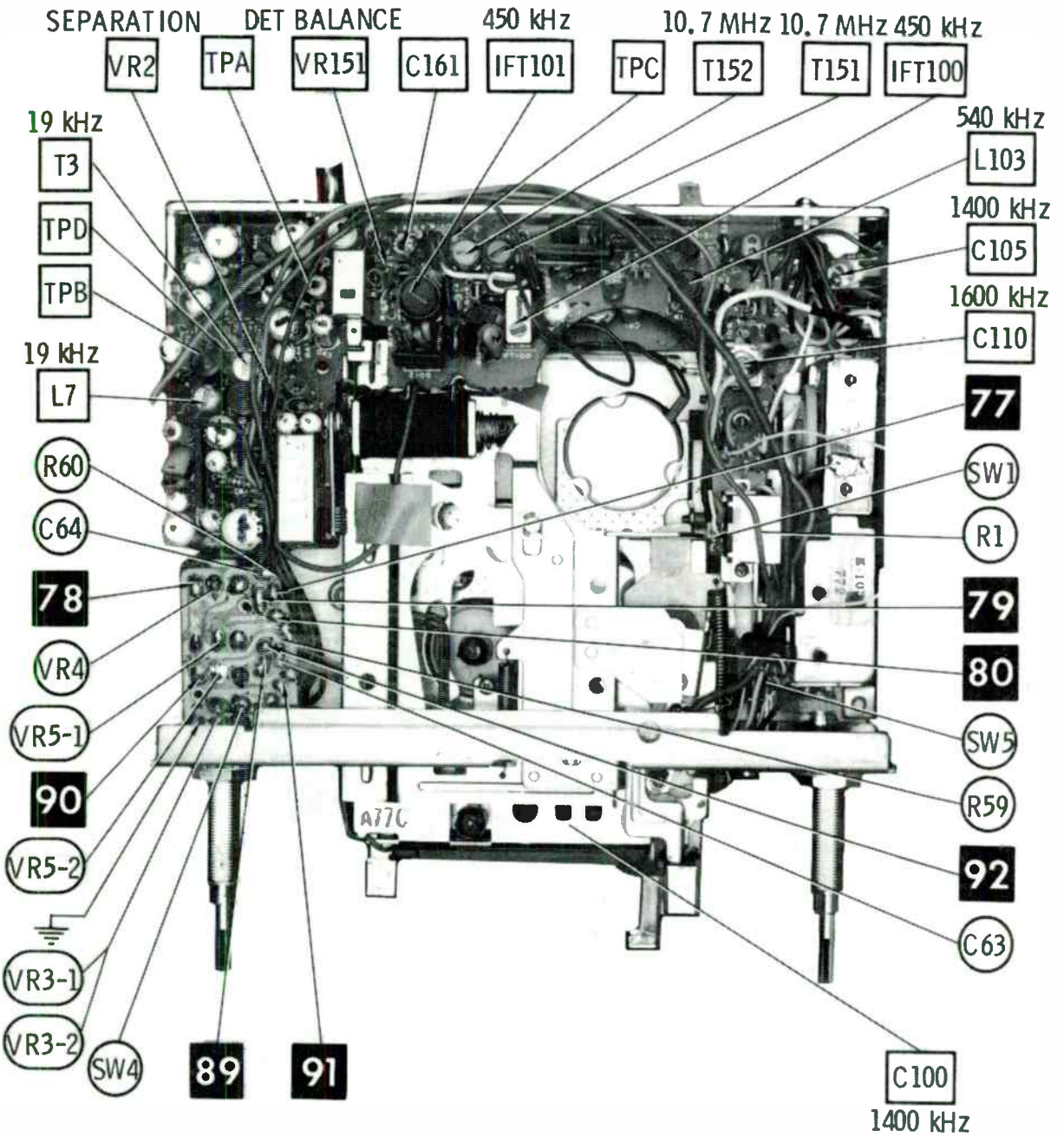
Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
88MHz Unmodulated	88MHz	DC probe of VTVM to C.	Osc	Adjust for maximum.
108MHz Unmodulated	108MHz	"	OT, RT, AT	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.

FM STEREO ALIGNMENT USING AUDIO GENERATOR

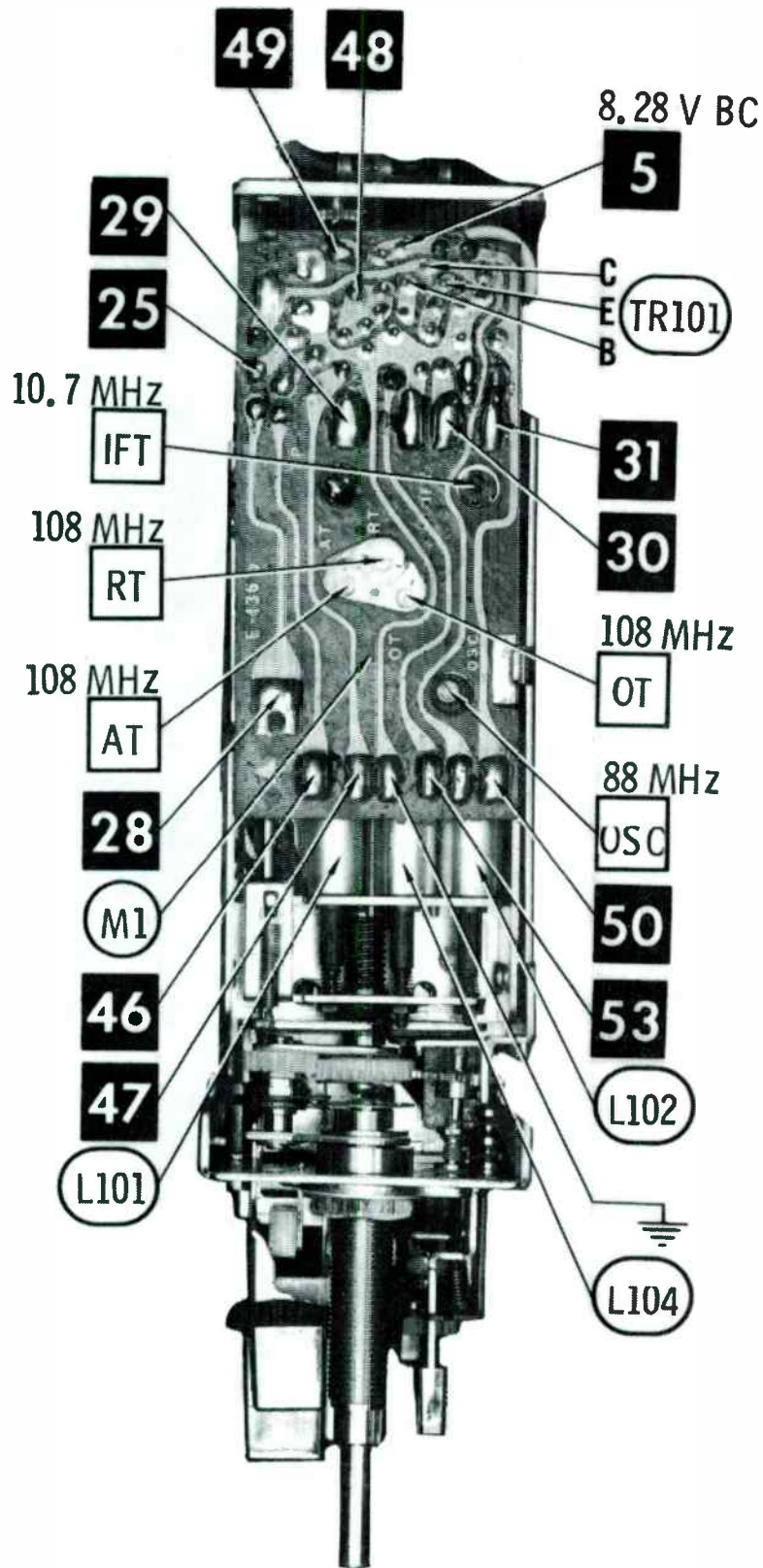
High side of generator to TPA. Tune receiver off station.			
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
19kHz	Vert input of scope to TPB.	L7	Adjust for maximum 19kHz response.
19kHz	Vert input of scope to TPD.	T3	Adjust for maximum 38kHz response.

Tune receiver for a stereo signal. Adjust balance control for equal channel output. Adjust Separation control VR2 for best separation.



PANASONIC MODELS CG-841EU, CG-6700EU

OVERALL-TOP



OVERALL-SIDE

HEAD DEMAGNETIZING

Refer to "General Servicing Information" on page 4.

ADJUSTMENTS

IMPORTANT: Before making any adjustments, refer to "General Servicing Information" on page 4.

1. All voltage measurements referred to in this chart are made at a tape speed of 1 7/8 ips with Digital Meter.
2. All torque measurements are made at a tape speed of 1 7/8 ips with a spring scale applied to a point 1 inch from spindle center.
3. All pressure measurements are made by using a spring scale to determine that point at which pressure is just removed.

ADJUST	REMARKS
Play Take-up Torque	Nominal value 3/4 oz. No adjustment provided.
Fast Forward Torque	Nominal value 1 oz. No adjustment provided.
Pressure Roller Pressure	Nominal value 14 oz. No adjustment provided.
Head Azimuth	Connect meter across left (right) output; play an azimuth-test tape and adjust screw M245 for maximum output.

TROUBLE CHART

IMPORTANT: Before consulting this chart, refer to "General Servicing Information" on page 4.

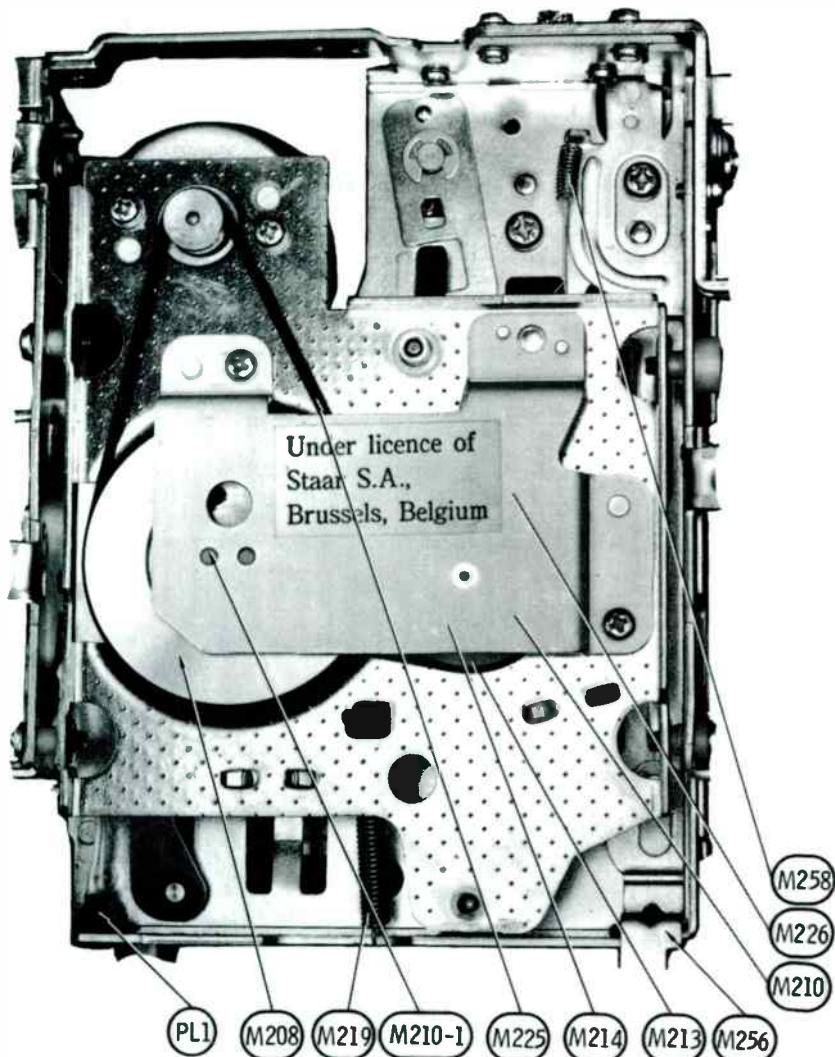
SYMPTOM	REMARKS
Take-up erratic or inoperative in play.	Spindle M209 dirty worn or binding. Clutch M214 dirty or worn. Pulley M213 dirty, worn or binding. Belt M226 dirty, worn or broken.
Take-up erratic or inoperative in fast forward	Spindle M209 dirty, worn or binding. Clutch M214 dirty or worn. Pulley M213 dirty, worn or binding. Belt M226 dirty worn or broken.
Capstan does not rotate	Belt M225 dirty, worn or broken. Flywheel binding. Motor defective or not supplied with power.
Tape rides up and down between capstan and pressure roller.	Capstan bent. Roller M204 worn. Excessive take-up torque.
Wow or flutter	Roller M204 dirty or worn. Belt M225 dirty or worn. Bearing M207A binding. Cassette defective. Motor defective. Excessive take-up torque.

PANASONIC MODELS CG-841EU, CG-6700EU

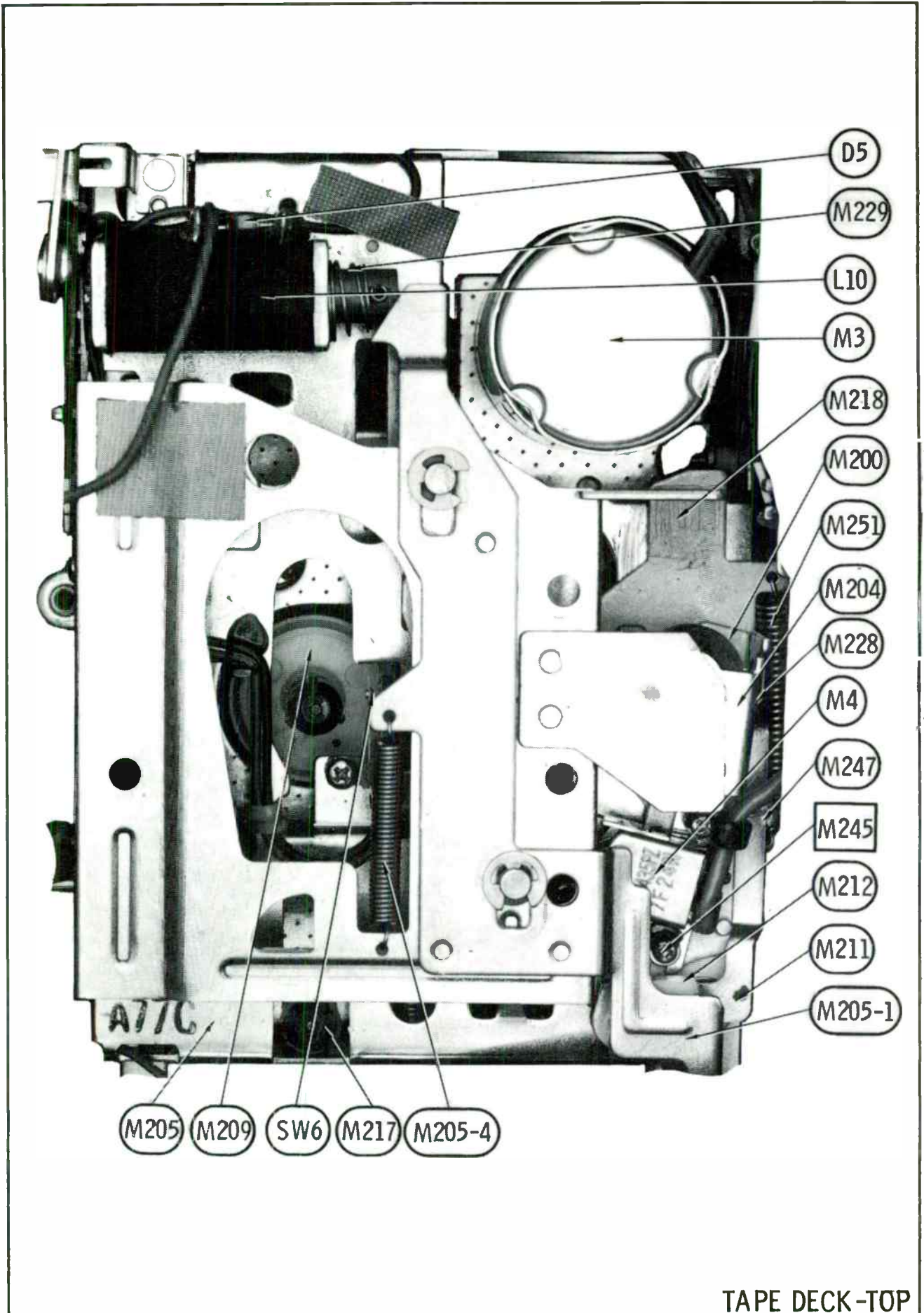
MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
M200	YEFX018017	Head Base Assembly	M214	YEFS02033	Clutch Felt
M204*	YEFX218123*	Pinch Roller Assembly*	M217	YEFW05012	Supply Spindle
M205	YEP1FX016	Cassette Guide Assembly	M218	YEFX046043	Fast Forward Lever
M205-1	YEFX046044	Eject Lever	M219	YEFX005114	Cassette Guide Spring
M205-4	YEFX005114	Eject Lever Spring	M225*	YEFR03011*	Flywheel Drive Belt*
M207	YEFA01191	Sub-Chassis Assembly	M226*	YEFR03006*	Take-up Belt*
M207A	(1)	Capstan Bearing	M228	YEFX005111	Pinch Roller Spring
M208	YEFX213109	Flywheel	M229	YEFX005112A	Solenoid Spring
M209	YEP1F015	Take-up Spindle	M245	XSN2+4FXS	Azimuth Adjust Screw
M210	YEFX213117	Flywheel Retainer	M247	YEFX005109	End Detecting Arm Spring
M210-1	YAFX019007	Thrust Bearing	M251	YEFX005157	Fast Forward Lever Spring
M211	YEFX249101	End Detecting Arm	M256	YEFX046084	Switch Lever
M212	YEFX017025A	End Detecting Tip	M258	YEFX005146	Switch Lever Spring
M213	YEFX026017	Take-up Pulley			

- (1) Part of Assembly #M207.
 * Pinch Roller E-V/GAME Replacement Number 1499-70
 WALSCO Replacement Number 1499-70
 * Flywheel Drive Belt E-V/GAME Replacement Number 1407-153
 WALSCO Replacement Number 1425-27
 * Take-up Belt E-V/GAME Replacement Number 1425-26

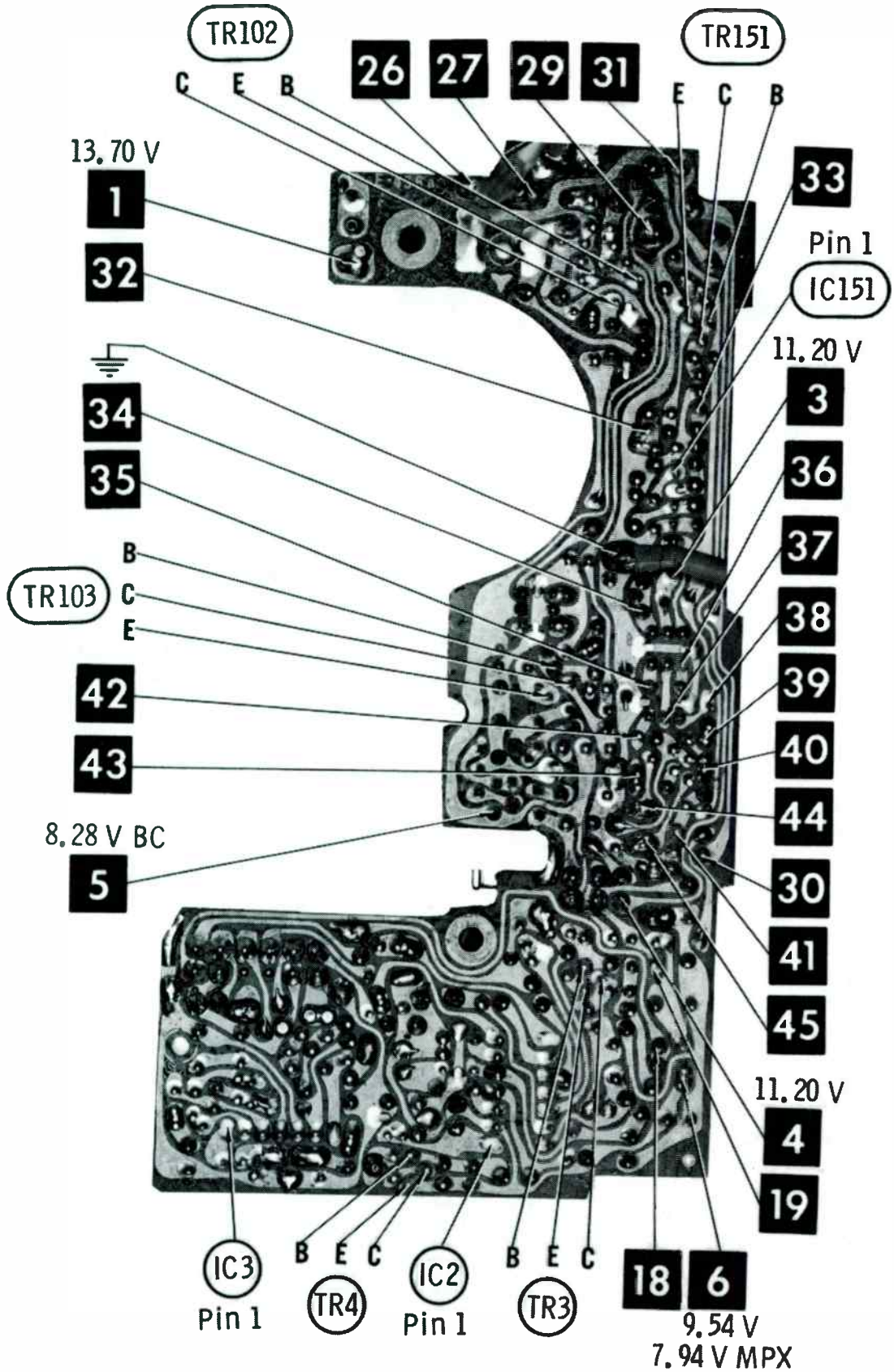


TAPE DECK -BOTTOM

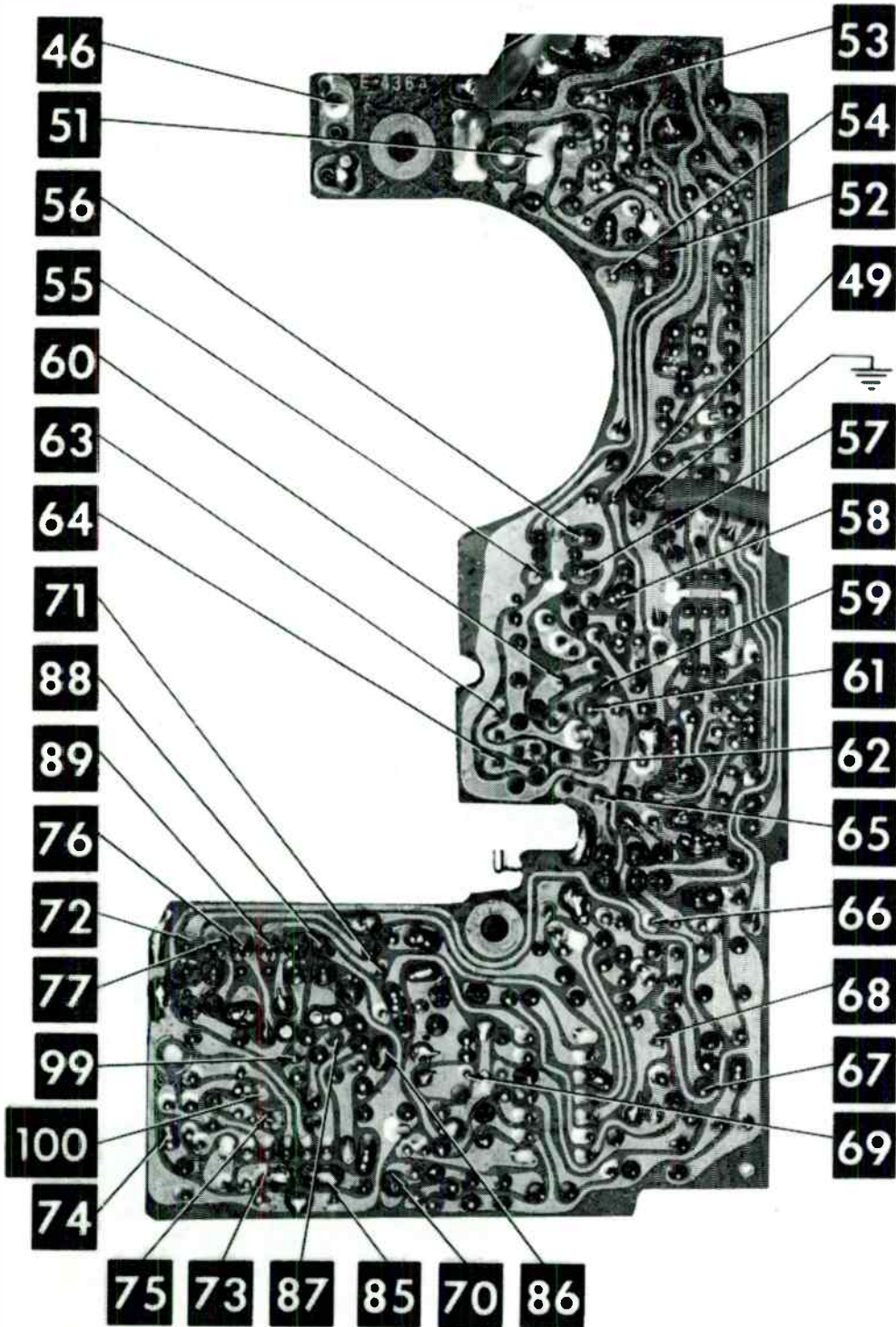


PANASONIC MODELS CQ-841EU, CQ-6700EU

TAPE DECK-TOP

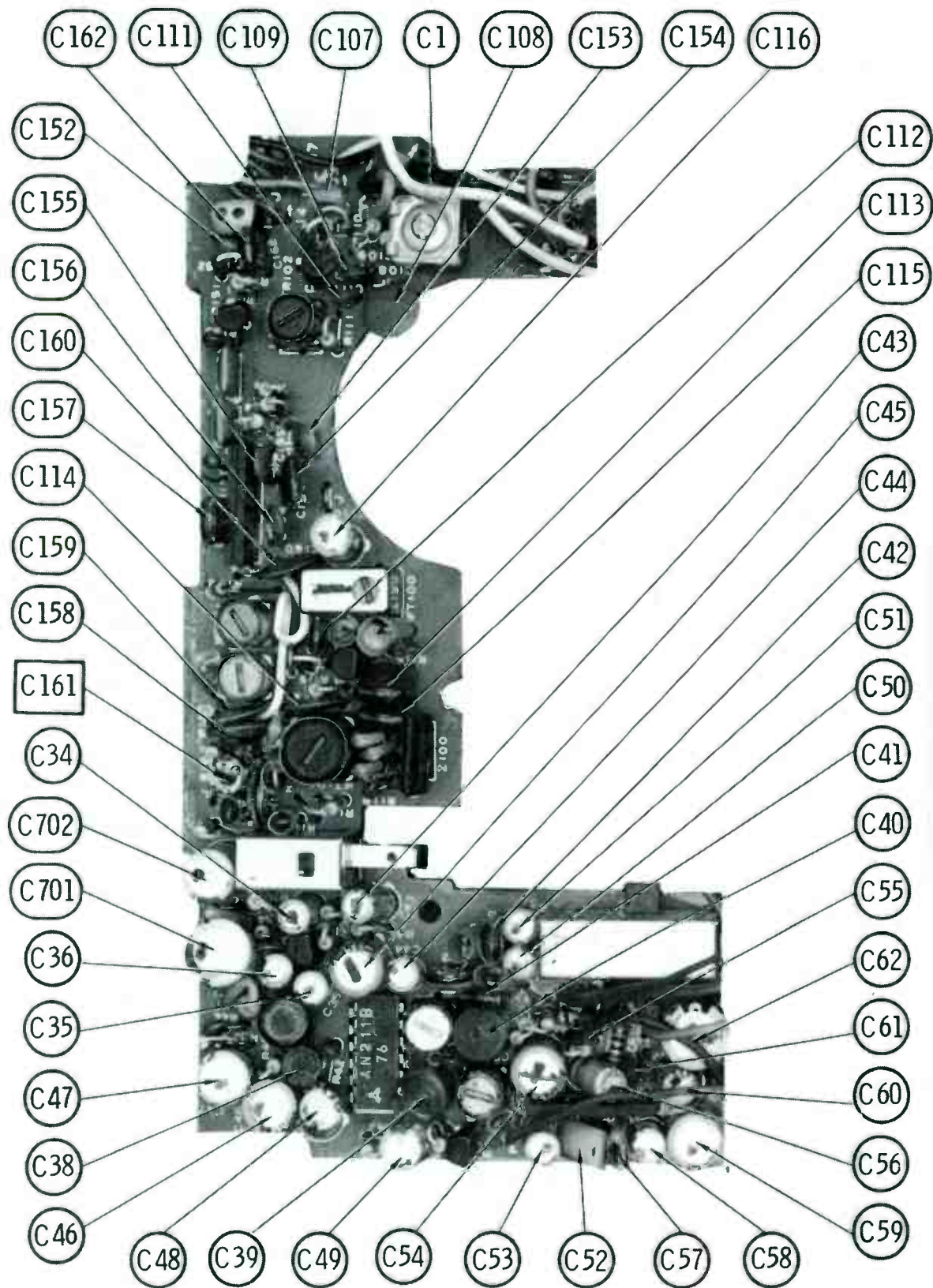


MAIN BOARD

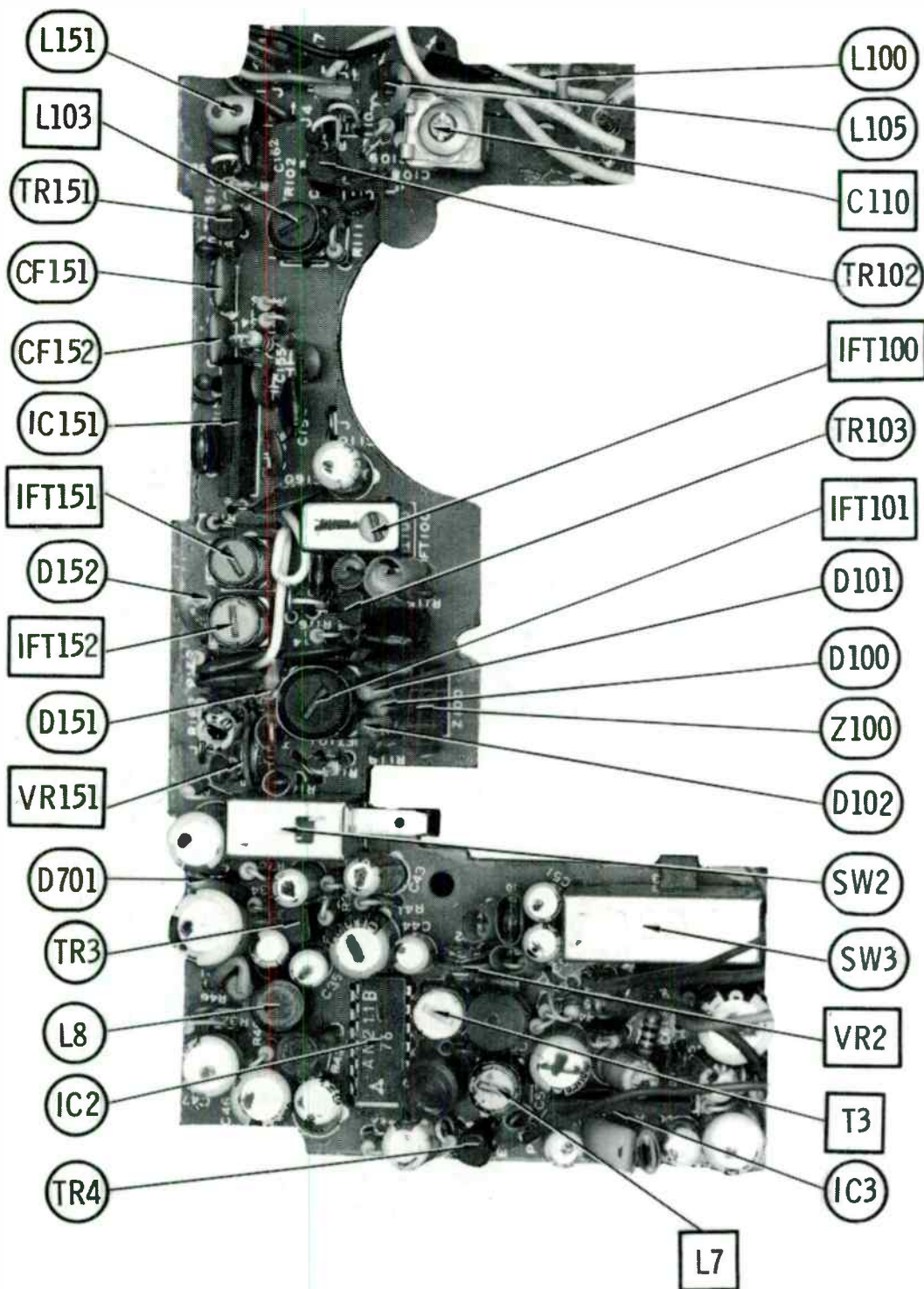


PANASONIC MODELS CQ-841EU, CQ-6700EU

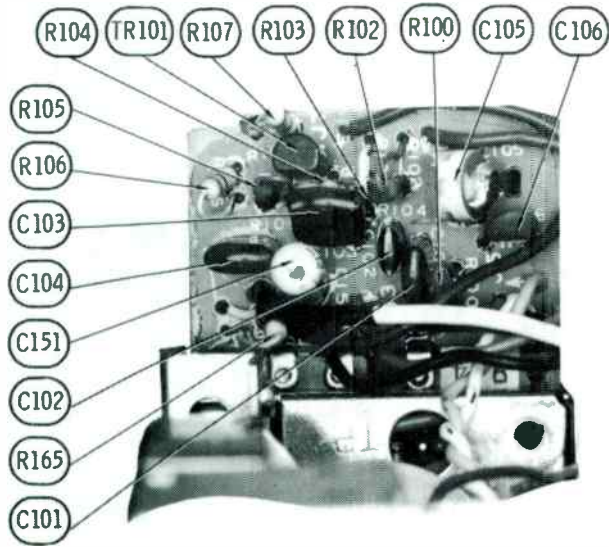
MAIN BOARD



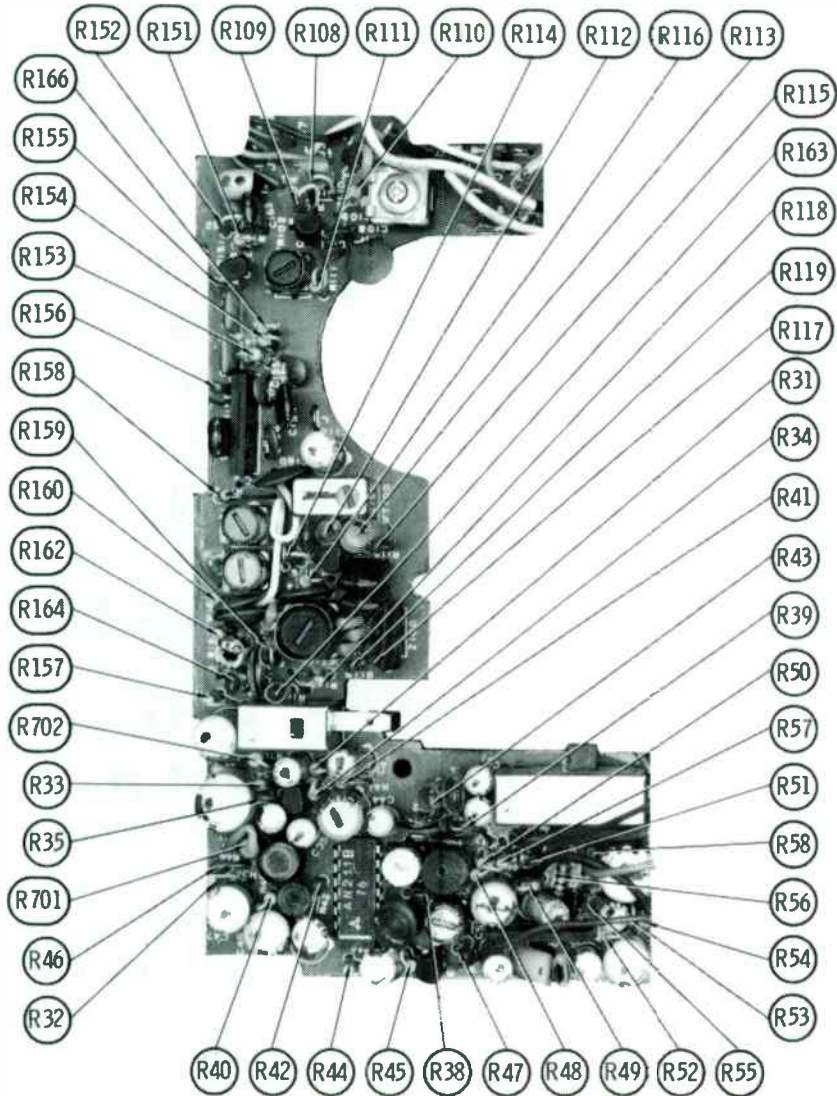
MAIN BOARD



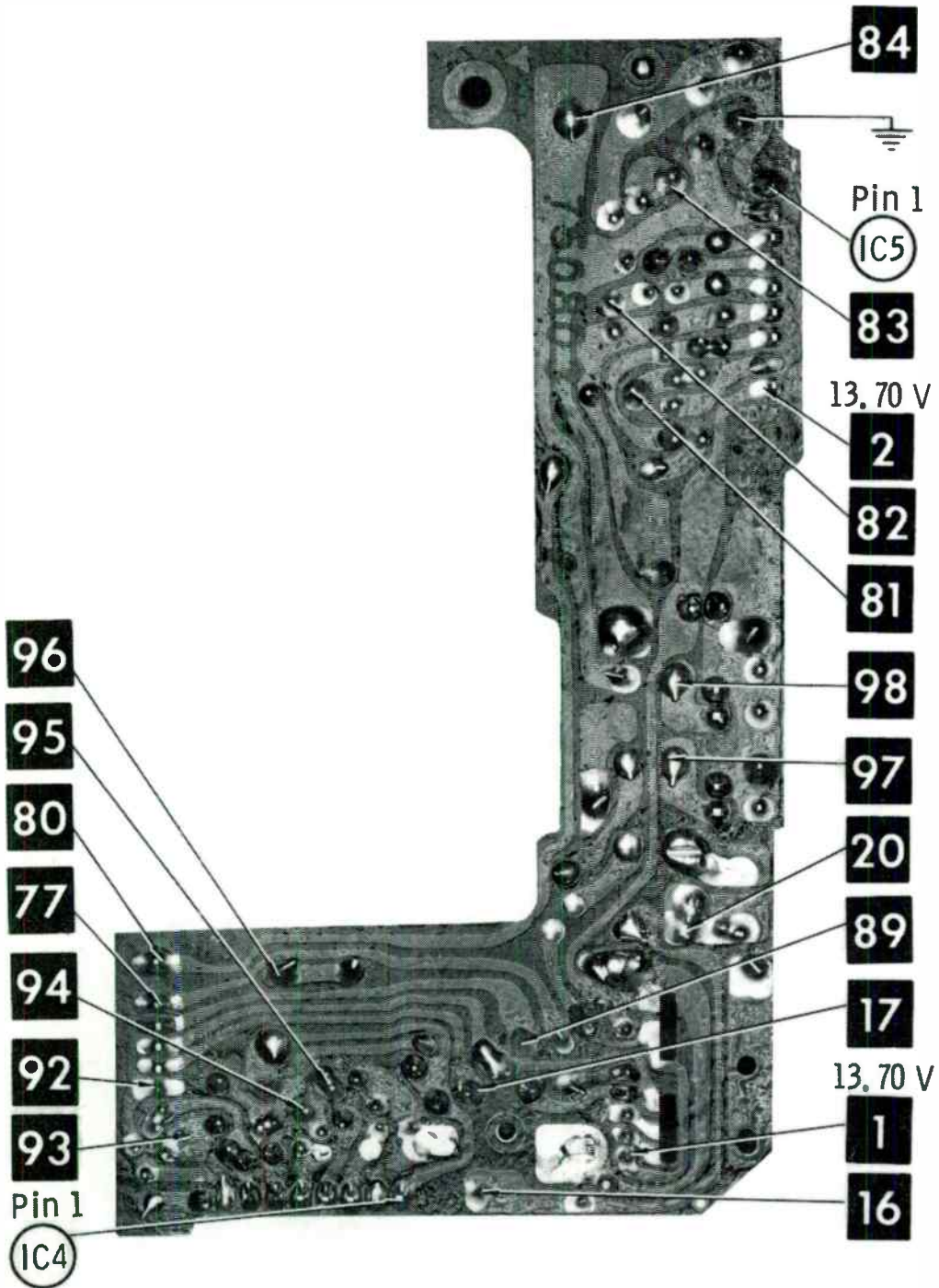
MAIN BOARD



AM BOARD

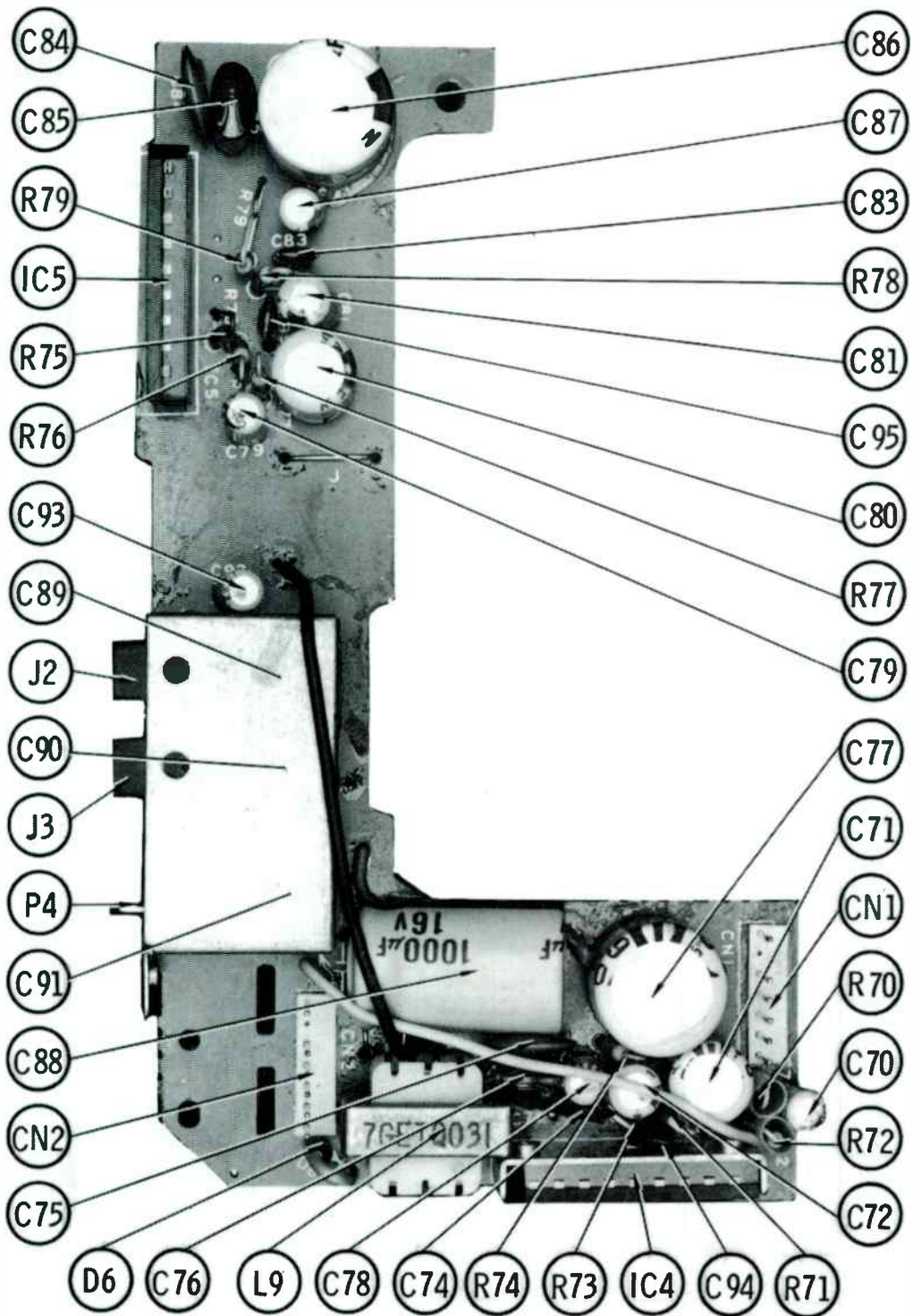


MAIN BOARD



PANASONIC MODELS CG-841EU, CG-6700EU

AUDIO BOARD



AUDIO BOARD

PARTS LIST AND DESCRIPTION

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

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS* for the most up-to-date replacement.

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.
D5	D030	YEAD030	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
D6	D030	YEAD030	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
D100	0A90		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D101	0A90		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D102	0A90		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D151	D032	YEAD032	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D152	D032	YEAD032	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D701	D024	YEAD024	GEZD-8.2	Z8B.28		RE 112		RT-257	ECG5072A	1N4738A	WEP1108	
IC2	AN211B		GEIC-48				SK3458		ECG1056	AN211		
	AN211-AB		GEIC-48				SK3458		ECG1056	AN211		
	AN211		GEIC-48				SK3458		ECG1056	AN211		
IC3	M5152L	YEAMM5152L	GEIC-65						ECG1170			
IC4	AN214Q		GEIC-49	PTC757		RE 338-IC	SK3459	TVCM-74	ECG1058	AN214	WEP937	
	AN214-PQR		GEIC-49	PTC757		RE 338-IC	SK3459	TVCM-74	ECG1058	AN214	WEP937	
	AN214		GEIC-49	PTC757		RE 338-IC	SK3459	TVCM-74	ECG1058	AN214	WEP937	
IC5	AN214Q		GEIC-49	PTC757		RE 338-IC	SK3459	TVCM-74	ECG1058	AN214	WEP937	
	AN214-PQR		GEIC-49	PTC757		RE 338-IC	SK3459	TVCM-74	ECG1058	AN214	WEP937	
IC151	UPC577H	YEAMJPC577H	GEIC-140			RE 341-M	SK3461		ECG1082	UPC577H	WEP939	
TR3	25C828S		GE-61*	PTC121*	HEPS0015*	RE 192	SK3444	RT-302	ECG199	25C828	WEP828	ZEN-119
	25C828R,S		GE-61*	PTC121*	HEPS0015*	RE 192	SK3444	RT-302	ECG199	25C828	WEP828	ZEN-119
	T											
TR4	25C828		GE-61*	PTC121*	HEPS0015*	RE 192	SK3444	RT-302	ECG199	25C828	WEP828	ZEN-119
	25A564P		GE-65	PTC103*	HEPS0019*	RE 193	SK3114	RT-303	ECG234	25A564	WEP564	121-879
	25A564		GE-65	PTC103*	HEPS0019*	RE 193	SK3114	RT-303	ECG234	25A564	WEP564	121-879
TR101	25C2076C		GE-210*	PTC121*	HEPS0015*	RE 13*	SK3122	RT-308	ECG123A		WEP736	121-722
	25C2076B,C		GE-210*	PTC121*	HEPS0015*	RE 13*	SK3122	RT-308	ECG123A		WEP736	121-722
	25C2076		GE-210*	PTC121*	HEPS0015*	RE 13*	SK3122	RT-308	ECG123A		WEP736	121-722
TR102	25C829C		GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	25C829	WEP829	ZEN-127
	25C829B,C		GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	25C829	WEP829	ZEN-127
	25C829		GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	25C829	WEP829	ZEN-127
TR103	25C829C		GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	25C829	WEP829	ZEN-127
	25C829		GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	25C829	WEP829	ZEN-127
TR151	25C829C		GE-20*	PTC121*	HEPS0015*	RE 9*	SK3444	RT-308	ECG229*	25C829	WEP829	ZEN-127
	25C828B,C		GE-61*	PTC121*	HEPS0015*	RE 192	SK3444	RT-302	ECG199	25C828	WEP828	ZEN-119

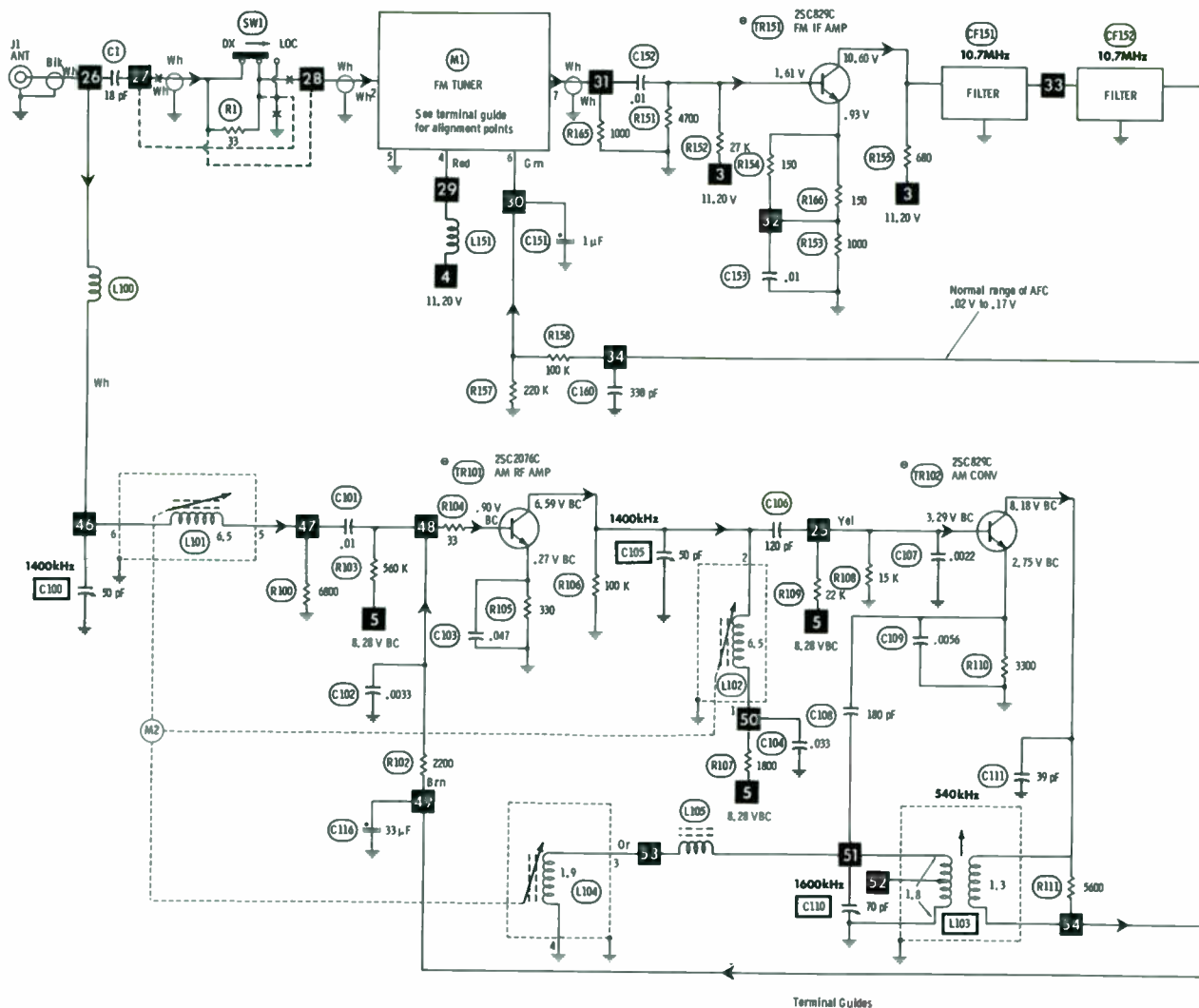
* Lead configuration may vary from original.

PANASONIC MODELS CG-841EU, CG-6700EU

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C34	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C35	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C36	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C43	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C44	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C45	100 6.3V	ECEA6V100L	PC100-10	VTT100E10	QV1-93	EV-1030
C46	100 6.3V	ECEA6V100L	PC100-10	VTT100E10	QV1-93	EV-1030
C47	100 10V	ECEA10V100L	PC100-10	VTT100E10	QV1-93	EV-1130
C48	33 10V	ECEA10V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C49	33 6.3V	ECEA6V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C50	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C51	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C53	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C54	100 6.3V	ECEA6V100L	PC100-10	VTT100E10	QV1-93	EV-1030
C56	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C58	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C59	100 6.3V	ECEA6V100L	PC100-10	VTT100E10	QV1-93	EV-1030
C60	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C62	220 10V	ECEA10V220Y	PC250-10	VTT220F10	QV1-115	EV-1140
C70	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C71	100 16V	ECEA16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C72	33 10V	ECEA10V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C77	470 16V	ECEA16V470M	PC500-16	VTT470K16	QV1-151	EV-1250
C78	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C79	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C80	100 16V	ECEA16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C81	33 10V	ECEA10V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C86	470 16V	ECEA16V470M	PC500-16	VTT470K16	QV1-151	EV-1250
C87	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C88	1000 16V	ECEA16V1000L	PC1000-16	VTT1000L16	QV1-183	EV-1260
C93	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C116	33 6.3V	ECEA6V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C151	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C161	4.7 25V	ECEA25V4R7L	PC5-50	VTT4R7B50	QV1-27	EV-1319
C701	100 16V	ECEA16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C702	100 10V	ECEA10V100L	PC100-10	VTT100E10	QV1-93	EV-1130

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

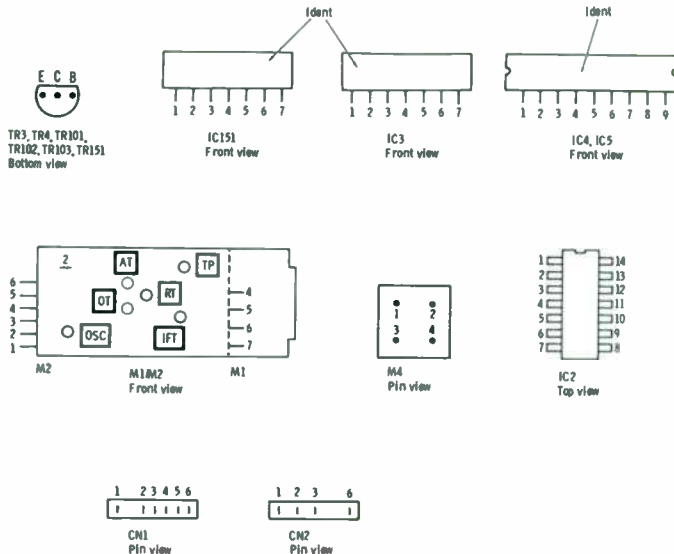
Measurements with switching as shown unless noted.

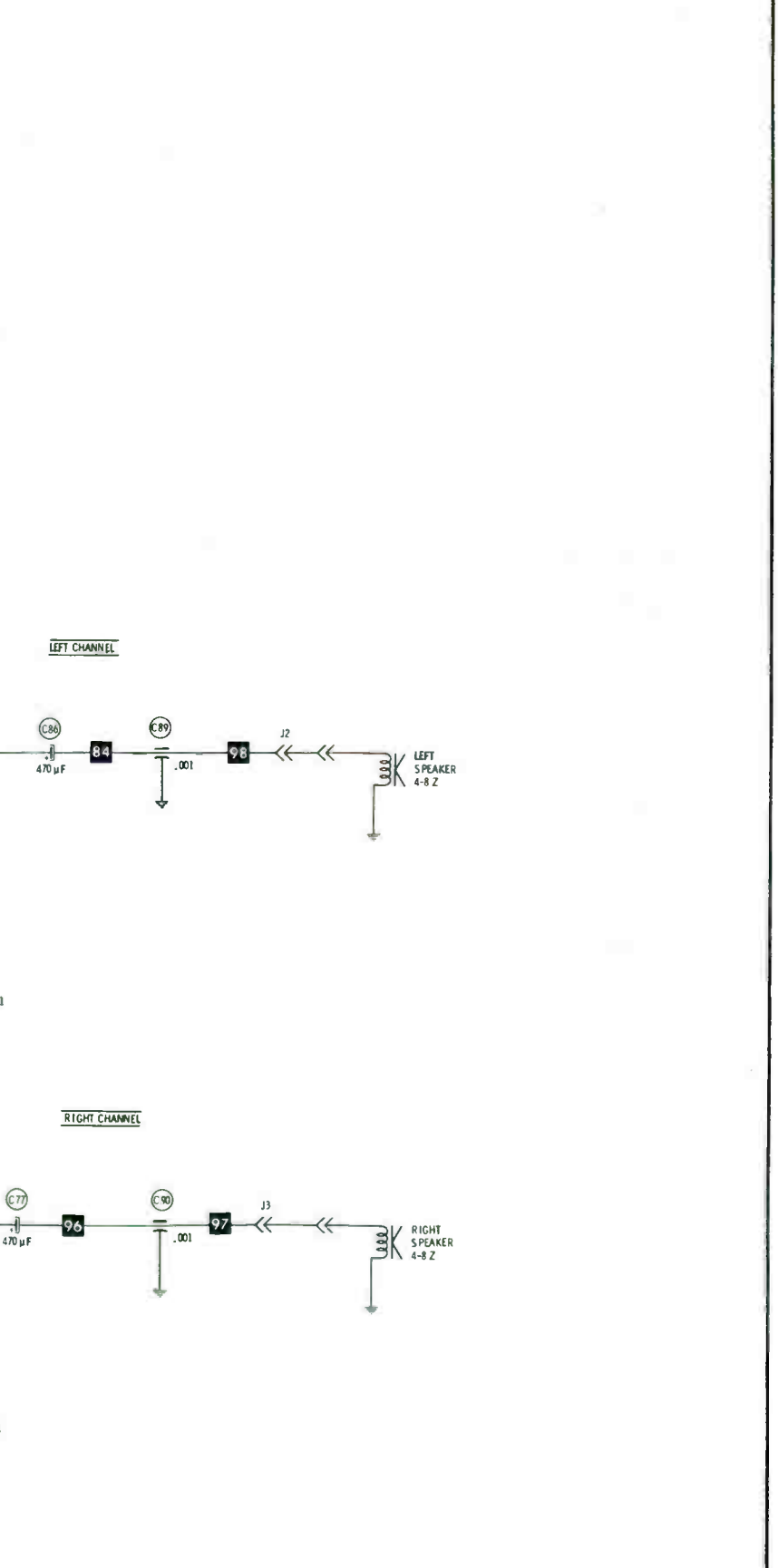
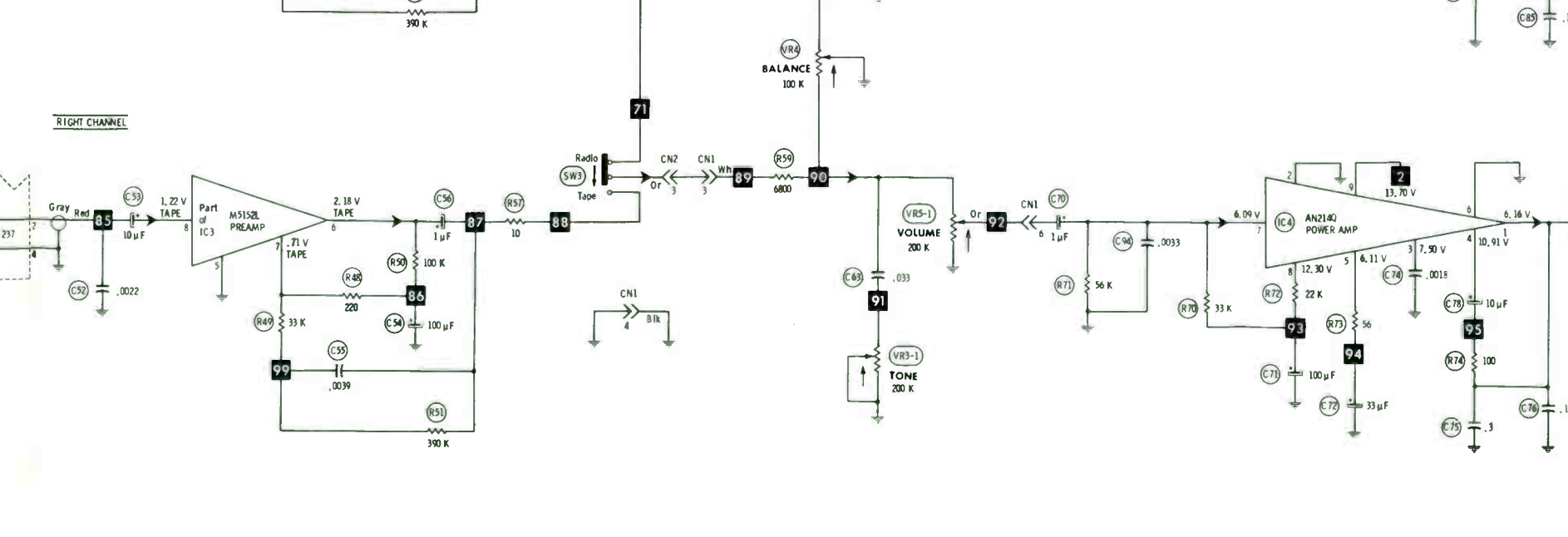
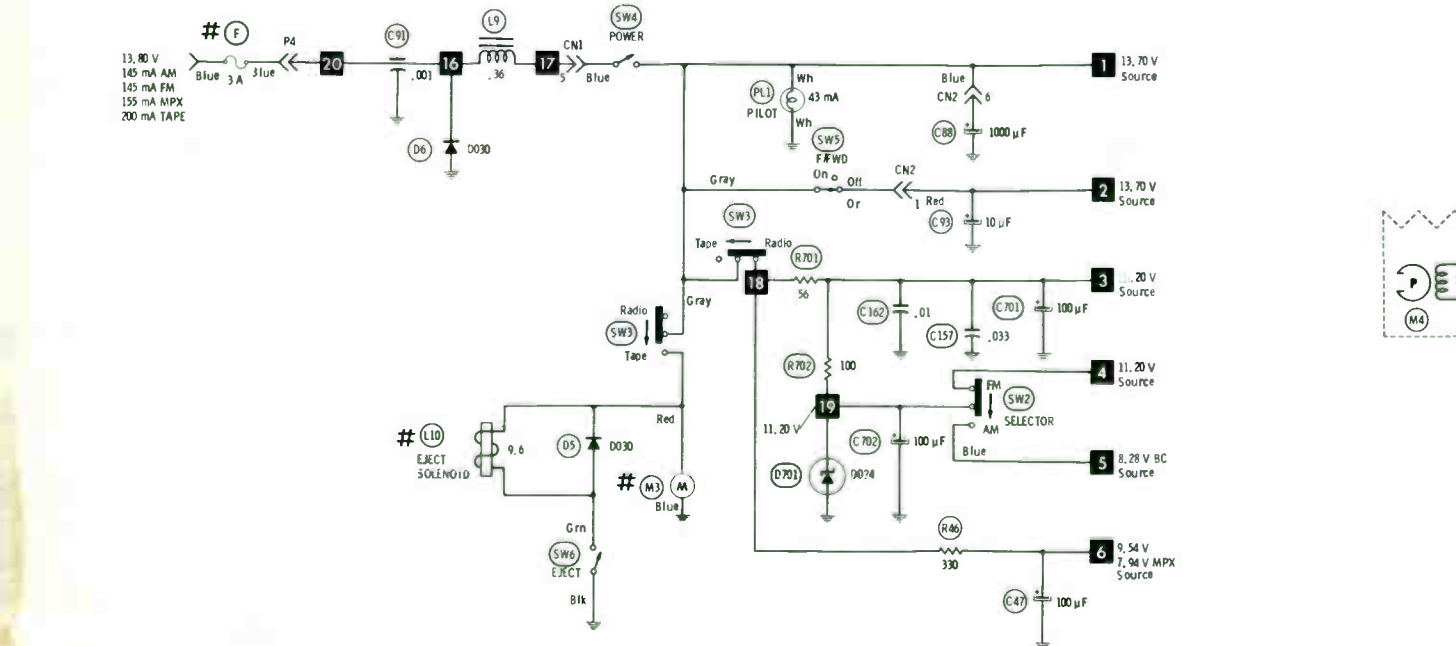
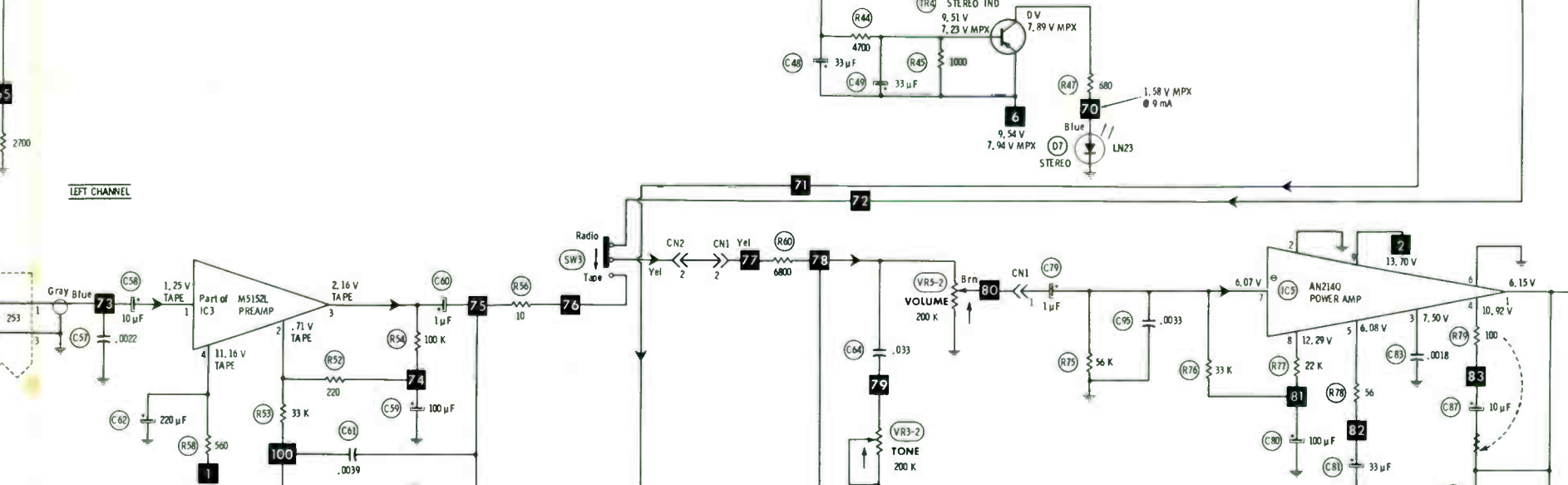
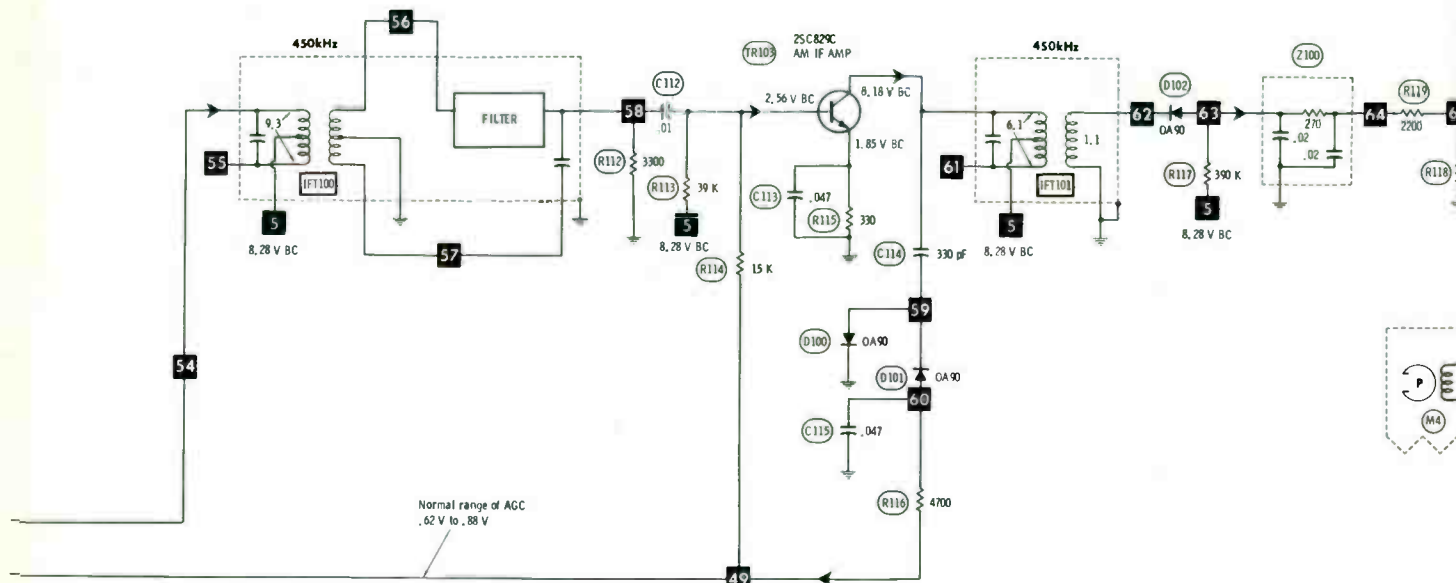
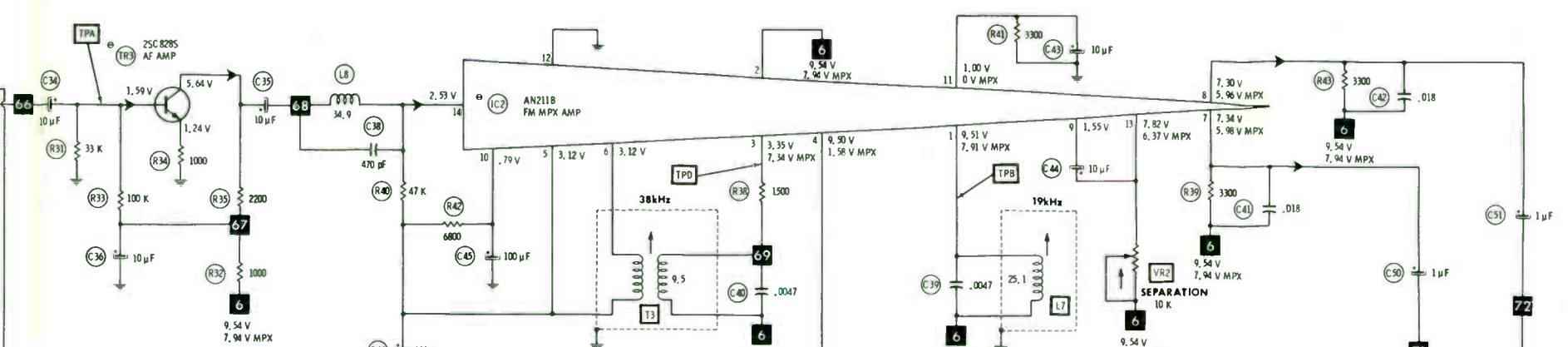
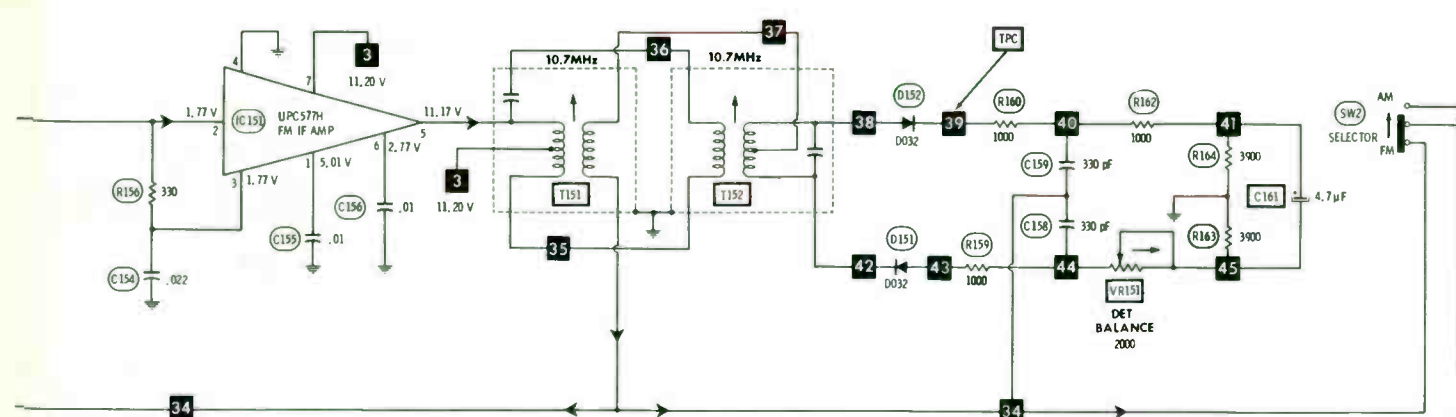
Item numbers in rectangles appear in the alignment/adjustment instructions.
 Supply voltage maintained as shown or input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow of control indicates direction of advance.
 Terminal identification may not be found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

A PHOTOFACE 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.	
						Q-LINE	GENERAL LINE
C1	18 50V 10%			CH041B		10TCC-018	
C38	470 125V 5%		CD15F047J303	SX347		MMA-471	
C39	.0047 125V 5%		CD19F047J303	SX47		MWC-472	
C40	.0047 125V 5%		CD19F047J303	SX47		MWC-472	
C41	.018 50V 20%		M192P1839R8	M192P1839R8		192P1839R8	
C42	.018 50V 20%		M192P1839R8	M192P1839R8		192P1839R8	
C52	.0022 50V 10%		DPMS6039	PW6239		1FT-D22	
C55	.0039 50V 10%		DPMS6039	PW6239		1FT-D22	
C57	.0022 50V 10%		DPMS6039	PW6239		1FT-D22	
C61	.0039 50V 10%		DPMS6039	PW6239		1FT-D22	
C63	.033 50V 20%		M192P3339R8	M192P3339R8		1FT-S33	
C64	.033 50V 20%		M192P3339R8	M192P3339R8		1FT-S33	
C74	.0018 50V 5%		CD19FD182J03	SX218		MWC-182	
C75	.3 12V 20%		WMF05P1	EMF05010		10TCC-T27	
C76	.1 50V 20%		CD19FD182J03	SX218		MWC-182	
C83	.018 50V 10%		WMF05P1	EMF05010		10TCC-T27	
C84	.3 12V 20%		WMF05P1	EMF05010		10TCC-T27	
C85	.1 50V 20%	YECCLS10271					
C89	.001	YECCLS10271					
C90	.001	YECCLS10271					
C91	.001	YECCLS10271					
C94	.0033 50V 10%			M192P3329R8		1FT-D33	
C95	.0033 50V 10%			M192P3329R8		1FT-D33	
C100	50	ECV1Z50X32					
C101	.01 50V 20%			M192P3329R8		1FT-D33	
C102	.0033 50V 10%			M192P3329R8		1FT-D33	
C103	.047 50V 20%			M192P3329R8		1FT-D33	
C104	.033 50V 20%			M192P3329R8		1FT-D33	
C105	50	ECV1Z50X40					
C106	120 50V 10%			M192P2229R8		1FT-D33	
C107	.018 50V 10%			M192P2229R8		1FT-D33	
C108	180 N330 5%	YECCD1H18J5					
C109	.0056 50V 10%			M192P5629R8		1FT-D56	
C110	70	YECCTC105700					
C111	39 50V 10%			M192P5629R8		1FT-D56	
C112	.01 50V 20%			M192P5629R8		1FT-D56	
C113	.047 50V 20%			M192P5629R8		1FT-D56	
C114	330 50V 10%			M192P5629R8		1FT-D56	
C115	.047 50V 20%			M192P5629R8		1FT-D56	
C152	.01 50V			M192P2229R8		1FT-D33	
C153	.01 50V			M192P2229R8		1FT-D33	
C154	.022 50V 20%			M192P2229R8		1FT-D33	
C155	.01 50V			M192P2229R8		1FT-D33	
C156	.01 50V			M192P2229R8		1FT-D33	
C157	.033 50V 20%			M192P2229R8		1FT-D33	
C158	330 50V 10%			M192P2229R8		1FT-D33	
C159	330 50V 10%			M192P2229R8		1FT-D33	
C160	.01 50V			M192P2229R8		1FT-D33	
C162	.01 50V			M192P2229R8		1FT-D33	

*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.	MALLORY PART No.	TRW PART No.
VR2	Separation	10K	EVNJ0AA00814			X260R103B(2)
VR3-1	Tone-Right	200K	YEVK01FSK025(18)			
VR3-2	Tone-Left	200K				
VR4	Balance	100K				
VR5-1	Volume-Right	200K				
VR5-2	Volume-Left/Power Switch	200K				
VR151	Det. Balance	200K	EVNJ0AA00823			X260R252B(2)

(2) Cut off one of the end terminals and bend to fit PC board.

(18) Includes VR3-1, VR3-2, VR4, VR5-1, VR5-2 and SM4.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
1FT100	AM IF	YE1C07D2004A			(1) Part of M2
1FT101	AM IF	YE1A1057086			
L7	FM Multiplex	YELM07S912			
L8	FM Multiplex	YELM145917			
L100	Antenna loading	YELM05CD44			
L101	AM Tuning (RF)	YEAU01043(1)			
L102	AM Tuning (Conv.)	YEAU01043(1)			
L103	AM Osc.	YELL07S069			
L104	AM Tuning (Osc.)	YEAU01043(1)			
L105	AM Osc.	YELT06C003			
L151	RF Choke	YELM09C006			
T3	Multiplex (38kHz)	YELM07S911		74F335A1	
T151	FM IF	YE1F07S048			
T152	FM IF	YE1F07S047			

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 CHOKES

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L9	200mA	.36	2mH	YETQ02F031 7GETQ031(1)			(1) Number on unit.

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	
F	3A Quick-acting	YEAFO1001		AGC	HJ2	312-003	150145	FG3-2

For SAFETY use only equivalent replacement part.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF151	Filter	YE1NO9N5004	10.7MHz Ceramic
CF152	Filter	YE1NO9N5004	10.7MHz Ceramic
CN1	Pin Connector	YEAEO2017	Volume-tone board to power amp
CN2	Pin Connector	YEAEO2032	Radio-tape board to power amp
D7	LED	LN23	Stereo indicator
J1	Jack	YEA09031	Antenna
J2	Jack	YEA03128	Left Speaker
J3	Jack	YEA03128	Right Speaker
L10	Solenoid	YEPTFX020	Headshifter
M1	FM Tuner	YEAU01042	
M2	AM Tuner	YEAU01043	Tape transport (2350rpm @ 13.70V)
M3	Motor	YASAK1030	4-track Stereo Play
M4	Magnetic Head	YAL24002L	Dial (13.70V @ 43mA)
PL1	Lamp	YEA09051	Distant-local
SW1	Switch	YEA09052	AH-FM
SW2	Switch	YEA07021	Radio-tape
SW3	Switch		Power (on volume control shaft)
SW4	Switch		Fast Forward
SW5	Switch	YEA23101	Cassette eject
SW6	Switch	YEA23105	
Z100	Component combination Power Cord	YEAJ01096	DC

For SAFETY use only equivalent replacement part.

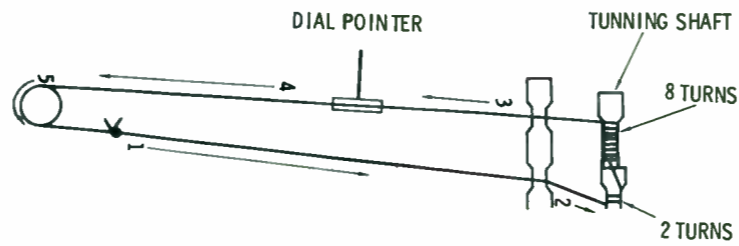
CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Button, AM/FM and DX/LDC (CQ-841EU)	YEFE10141	Escutcheon Assembly (CQ-6700EU)	YEFC02345
Button, AM/FM and DX/LDC (CQ-6700EU)	YEFE10191	Knob, Tuning/Volume	YEF07063
Button, Eject (CQ-841EU)	YEFE13022	Knob, Tone/dummy	YEF08057
Button, Eject (CQ-6700EU)	YEFE13048	Dust Cover	YEF01071
Button, F/FWD (CQ-841EU)	YEFE13035	Dial Pointer	YEFH0146
Button, F/FWD (CQ-6700EU)	YEFE13038	Tape Door (CQ-841EU)	YEFK00200
Cover, Bottom	YEFK00200	Tape Door (CQ-6700EU)	YEFK00208
Cover, upper	YEFK00208	Shaft, Tape Door	YEFM06095
Escutcheon Assembly (CQ-841EU)	YEFK02130	Spring, Tape Door	YEFK00518

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) 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.)

DIAL CORD STRINGING



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

AFCC	VOL.	AMERICAN MOTORS	VOL.	ARTHUR FULMER (CONT.)	VOL.	AUDIOVOK (CONT.)	VOL.	AUDIOVOK (CONT.)	VOL.	AUDIOVOK (CONT.)	VOL.
APX810	216	SK1405	167	748 (Pg 107)	164	C935	95	DBT74PB (Pg 21)	136	LD075PDK	222
AK53	222	SK21511	212	790	164	CR71	99	DBT73PM (Pg 5)	137	LD075GDK	223
ID300APX	195	SK2405	169	791	160	C950	92	DBM610PM (Pg 5)	93	LD075LDK	226
ID400PB	221	SK3511	216	792	205	C961	139	DBM620PM (Pg 5)	94	LD075MDK	227
IDC600APX	220	SKA1507	212	3900, 3901	209	C965	134	DBM630PM (Pg 5)	95	LD075NDK	228
IDC650AB	231	SKA1508	212	4601	212	C973	166	DBM640PM (Pg 5)	96	LD075ODK	229
SB480	223	SKA1524	212	4801	217	C974	131	DBM650PM (Pg 5)	97	LD075PDK	230
SC700	224	SKA1525	212			C975	138	DBM660PM (Pg 5)	98	LD075QDK	231
SKX900	226	SKA2404	200			C976	160	DBM670PM (Pg 5)	99	LD075RDK	232
SK3015B	227	SKA2510	219			C977	182	DBM680PM (Pg 5)	100	LD075SDK	233
		SKA2520	219			C978	167	DBM690PM (Pg 5)	101	LD075TDK	234
		SKA3509	216			C979	182	DBM700PM (Pg 5)	102	LD075UDK	235
		SKA3517	216			C980	139	DBM710PM (Pg 5)	103	LD075VDK	236
		SKA4503	217			C983 (Pg 15)	166	DBM720PM (Pg 5)	104	LD075WDK	237
		SKA4518	217			C984	187	DBM730PM (Pg 5)	105	LD075XDK	238
		SKBMC	82			C990	162	DBM740PM (Pg 5)	106	LD075YDK	239
		SKMR	86			C991	133	DBM750PM (Pg 5)	107	LD075ZDK	240
		SKO1052	87			CA73PM (Pg 21)	133	DBM760PM (Pg 5)	108	LD075ADK	241
		SKO1578	87			CA74PM (Pg 21)	133	DBM770PM (Pg 5)	109	LD075BDK	242
		SKO1579	87			CA75PM (Pg 21)	133	DBM780PM (Pg 5)	110	LD075CDK	243
		SKO1644	84			CA76PM (Pg 21)	133	DBM790PM (Pg 5)	111	LD075DDK	244
		SKO1645	84			CA77PM (Pg 21)	133	DBM800PM (Pg 5)	112	LD075EDK	245
		SKO1646	84			CA78PM (Pg 21)	133	DBM810PM (Pg 5)	113	LD075FDK	246
		SKO1647	84								

Listing all models in PHOTOFACT Auto Radio Series volumes from 1970 (AR-70).
For models covered before 1970, see the Annual Index.

CHANNEL MASTER (CONT.) VOL.	CHRYSLER (CONT.) VOL.	CHRYSLER (CONT.) VOL.	CRAIG (CONT.) VOL.	FORD (CONT.) VOL.	FORD (CONT.) VOL.
6289183	2CH2402180	3501240 (1CH3513)214	3128194	DLG1924198	D7TF19A171AB246
6291121	2CH2602228	3501328 (1CH4405)181	3130158	DLH1880698	D7TF18806AA248
6292119	2DC110183	5CH4405181	3132150	DLI19A242AA104	D7VF19A168AB248
6294158	2DPL209128	3501328 (1CH4507)195	3133151	DIM19A24198	D7VF19A171AB246
6295152	2DPL316153	3501329 (1CH4402)180	3134159	DIM19A242AD105	D7VF19A180AB251
6296156	2PD100684	5CH4402180	3135191	DIQ19A24194	D7VF19A188AB (Pg 45)228
6297157	2PD1209128	3501329 (1CH4508)192	3136200	DIQ1880694	D7VF19A241AB249
6298227	2PD1211128	5CH4508189	3137196	DIS19A242AB102	D7VF19A241BA249
6317103	2PD1306157	3501376253	3138197	DIS18806AB101	D6AF19A171AA (Pg 37)246
6318142	2PD1308157	3501457251	3139193	DI19A24194	D6AF19A180AA (Pg 43)251
6348229	2PD1315196	3501458228	3140207	DI1880694	D6AF18806AA (Pg 75)248
6376188	2PD2506159	3501472135	3141203	DI1880694	D6EF18814AA263
6378187	2PD2513194	3501501 (1PD2208)152	3142198	DI1880694	D6EF19A171AA (Pg 37)246
6382223	2PD2509128	3501501 (1PD2312)152	3143194	DIV19A24197	D6EF18806AA (Pg 75)248
6383185	2PF1103128	3501502 (1PF2205)135	3144/A237	DIV19A242AA102	D8HF18806CA, DA, EA (Pg 75)248
6385A224	2PF1203128	3501502 (1PF2310)152	3145243	DIW19A24198	D8MF19A180AB (Pg 43)251
	2PF1324157	3501503 (1PD2309)152	3146237	DIW19A242AD105	D8TF18814AC263
	5CHI401179	3501503 (1PD2207)135	3148204	DIY19A24198	D8TF19A171AA (Pg 37)246
CHEVELLE	5CHI605223	3501504 (1CL2206)133	3148A236	DIY19A242AD105	D8TF18806AA (Pg 75)248
(See General Motors)	5CH2401181	3501504 (1CL2311)153	3149247	DIY19A24194	D8TF18806AA (Pg 75)248
	5CH2402180	3501506 (1PD1207)131	3504/05158	DIZ19A242AD104	D8VF19A171AA (Pg 37)246
CHEVROLET	5CH2602228	3501506 (1PD1313)156	3505177	DZ19A241130	DI2A1880694
(See General Motors)	5CH3507195	3501508 (1PF1206)131	3507157	DZ2A19A241-125127	DI2A1880694
	5CH4402180	3501508 (1PF1312)156	3508206	DZ2A19A242AE (Pg 57)135	DI2A1880694
CHRYSLER	5CH4405181	3501521 (1PD2209)133	3511/12208	DZ2A18806126	DI2A1880694
	5CH4507195	3501521 (2DP2313)159	3513240	DZ2A18806 (72)126	D27J18806A247
AR6155GBL117	5CH4508192	3501551155	3516258	DZ2A18806 (72)126	D27J18806A248
AR6155GL117	5PD1506196	3501622 (1PD1506)196	3521249	DZ2A18806 (72)126	D32A19A171AA178
ARA10L117	188PWL98	3501622 (2PD1306)157		DZ2A18806 (72)126	D32A19A241137
ARA10W117	188PWL (Pg 27)98	3501623 (1PD2307)156	CRAWMOOD	DZ2A18806 (72)126	D32A18806136
CC15603104	288PWL109	3501623 (1PD2509)194	TC77T212	DZ2A18806 (72)126	D40A19A241AA180
CF0950387	398PWL147	2PD2509, 5PD2509)194	TC95MPX (Pg 47)212	DZ2A18806 (72)126	D42A18806AB179
CF1010388	49473	3501625159	TC207MPX211	DZ2A18806 (72)126	D42A19A171AB179
CF1050396	282477397	3501633158	TC27MPX208	DZ2A18806 (72)126	D44A18806AA178
CF1570393	282485897	3501635158	77T212	DZ2A18806 (72)126	D50A19A168AA199
CF5440386	282485997	3501638/1639 (Pg 35)181	77T212	DZ2A18806 (72)126	D52A19A241174
CF6100388	288409587	3501640/1641 (Pg 35)181	207MPX211	DZ2A18806 (72)126	D74F-19A180BA (Pg 43)251
CF6580385	288428773	3501654/1655 (Pg 35)176	100017-219212	DZ2A18806 (72)126	D77J-19A171AA (Pg 37)246
CF7480390	288428973	3635069 (1DT1215)137	10007-254208	DZ2A18806 (72)126	D77J-18806AA (Pg 75)248
CF7490389	288454486	3635069 (1DT1317)154		DZ2A18806 (72)126	D80F18806AA-BA262
CF7520388	288461188	3635149 (1DT2214)133	CROWN	DZ2A18806 (72)126	D5219A171BA200
CF7550387	288463390	3895716 (Pg 35)181	CS1500107	DZ2A18806 (72)126	ED1D19A19A24194
CF7560388	288465885	3895717 (Pg 35)176	CS1800107	DZ2A18806 (72)126	ED1D19A19A241100
CF7570393	288474889	7313966147		DZ2A18806 (72)126	ED1D19A19A24198
CF7590392	2884750 (OBVD)94	CLARICON		DZ2A18806 (72)126	ED1D19A19A24198
CF8440387	2884750 (1PD1211)128	48-50083	DELCO	DZ2A18806 (72)126	ED1D19A19A24198
CG01303104	2884752 (OBSEC)94	CLARION	(See General Motors)	DZ2A18806 (72)126	ED1D19A19A24198
CG01403105	2884752 (CF75203)88	JC201E (PB200E)240	DOGE	DZ2A18806 (72)126	ED1D19A19A24198
CG05903104	2884755 (CF75503)87	JC201E (RE366E)239	(See Chrysler)	DZ2A18806 (72)126	ED1D19A19A24198
CG15603105	2884755 (2PF1007)79	PA430A190	DYNATRONIC	DZ2A18806 (72)126	ED1D19A19A24198
CG16603104	2884756 (2DPL006)84	PE606B201	S40195	DZ2A18806 (72)126	ED1D19A19A24198
CG16703106	2884756 (CF75603)88	PE618A244	S80891	DZ2A18806 (72)126	ED1D19A19A24198
CG6480393	288475793	PE620E240	S84891	DZ2A18806 (72)126	ED1D19A19A24198
CG8270489	2884757 (OBBAJ, 188J)89	PE659A254	FALCON	DZ2A18806 (72)126	ED1D19A19A24198
OBBC94	2884759 (2PD1212)128	PE662B233	(See Ford)	DZ2A18806 (72)126	ED1D19A19A24198
OBBJ89	2884759 (2PD1315)157	PE666A257	FO-MD-CO	DZ2A18806 (72)126	ED1D19A19A24198
OBBS92	288479592	PE676A258	(See Ford)	DZ2A18806 (72)126	ED1D19A19A24198
OBTD97	288484487	PE702A233	FORD	DZ2A18806 (72)126	ED1D19A19A24198
OBVD94	288484777	PF434A (Pg 79)170	C90A19A04987	DZ2A18806 (72)126	ED1D19A19A24198
188C89	288487477	PF657A210	C90A19A049E106	DZ2A18806 (72)126	ED1D19A19A24198
188J89	288487579	PF659A234	CBVY18805B71	DZ2A18806 (72)126	ED1D19A19A24198
18VD (Pg 45)94	288487777	PF662B233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CG16503108	288487879	PF666A257	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH1210136	288487981	PF676A258	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH1314157	288487992	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH1401179	288488487	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH2011108	288488777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH2401181	288487477	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH2402180	288487579	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH3507195	288487777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH3513214	288487879	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH400790	288487981	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH4220 (Pg 23)155	288488487	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH4307155	288488777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH4402180	288487579	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH4405181	288487777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH4507195	288487879	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CH4508192	288487981	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CL2206133	288488487	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1CL2311153	288488777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1DC2002109	288487579	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1DE201084	288487777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1DT1214135	288487879	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1DT1215137	288487981	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1DT1244135	288488487	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1DT1316153	288488777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1DT1317154	288487579	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1DT1336153	288487777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1DT191987	288487879	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1DT2214133	288487981	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1DT2314159	288488487	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD1207131	288488777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD1208131	288487579	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD1209128	288487777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD1211128	288487879	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD1313156	288487981	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD1506196	288488487	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD2207135	288488777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD2208135	288487579	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD2209133	288487777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD2307159	288487879	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD2308159	288487981	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD2309152	288488487	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD2312152	288488777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD2346158	288487579	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD2349158	288487777	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PD2509194	288487879	PF702A233	C9A19A127C80	DZ2A18806 (72)126	ED1D19A19A24198
1PF1206131					

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