

SAMS PHOTOFACT®

AUTO RADIO SERIES



AR-244

244

JULY, 1977



CONTENTS

CADILLAC (77)

76CFPK1

CLARION

PE-618A

PANASONIC

CR-B4737EU

PIONEER

TP-7005G

TP-9005G

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

World Radio History

\$3.50

\$4.40 IN CANADA

Cat. No. AR-244



SAMS PHOTOFACT[®]

AUTO RADIO SERIES



VOLUME

244



by the *Howard W. Sams* ENGINEERING STAFF



HOWARD W. SAMS & CO., INC.
INDIANAPOLIS INDIANA

**FIRST EDITION
FIRST PRINTING—JULY, 1977**

**PHOTOFACT®
AUTO RADIO SERIES
VOLUME 244**

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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.



ALIGNMENT INSTRUCTIONS

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

Suggested Alignment Tools: GC ELECTRONICS:
 T1, T4, T5, T6.....9296, 9297, 9300
 C1 thru C6.....5000, 8868, 9089
 C2, C5, C6.....9051 (Bottom)

PUSH-BUTTON ADJUSTMENT

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

AM ALIGNMENT—SELECTOR IN AM POSITION

Connect output meter across speaker voice coil.

| GENERATOR COUPLING | GENERATOR FREQUENCY | RADIO DIAL SETTING | ADJUST | REMARKS |
|---|-----------------------|--------------------|------------|--|
| High side thru .1uF to point A. | 262kHz 400-Hz mod. | High freq end stop | T6, T5 | Adjust for maximum. |
| Check setting of oscillator coil core L1F Rear of core should be 1-3/8" from mounting end of coil form. | | | | |
| High side thru 82pF to antenna input | 1615kHz | High freq end stop | C6, C5, C4 | Adjust for maximum. |
| " | 600kHz | 600-kHz signal | L1E, L1D | Adjust for maximum. Repeat alignment. |
| With radio installed in car and antenna extended 36 ", tune in a weak station near 1400kHz and adjust C4 for maximum output. Antenna adjustment C4 is located in front panel above tuning knob. | | | | |

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

High side of generator thru .001uF to A.

| GENERATOR FREQUENCY | RADIO DIAL SETTING | INDICATOR | ADJUST | REMARKS |
|------------------------|---------------------------|------------------------|------------|---------------------|
| 10.7MHz Unmodulated | Point of non-interference | DC probe of VTVM to B. | (1) T4, T1 | Adjust for maximum. |

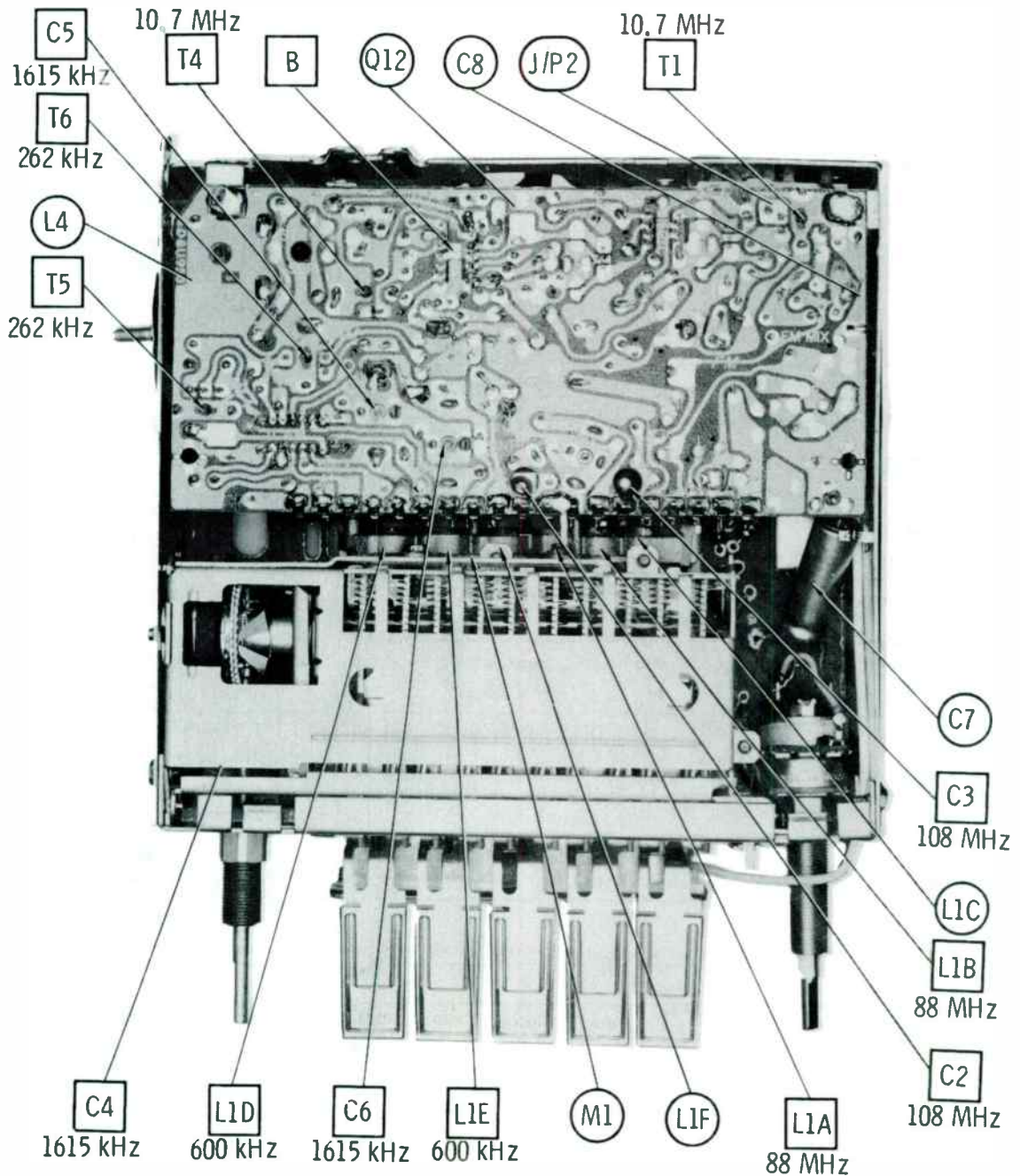
ALIGNMENT INSTRUCTIONS (Continued)

FM RF ALIGNMENT—SELECTOR IN FM POSITION

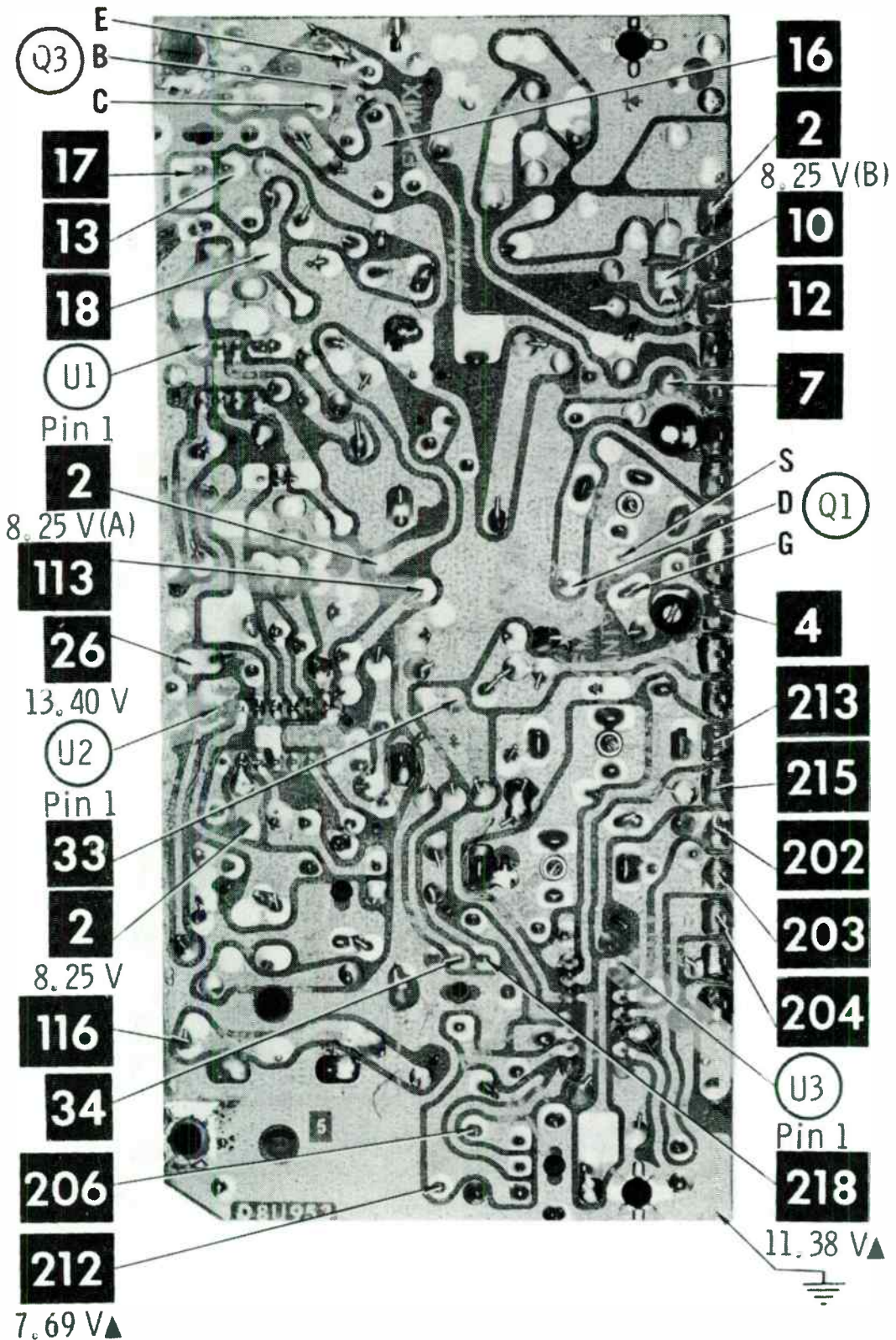
Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Check setting of Osc Coil L1C. Rear of core should be 1 3/8" from mounting end.

| GENERATOR FREQUENCY | RADIO DIAL SETTING | INDICATOR | ADJUST | REMARKS |
|-----------------------|--------------------|------------------------|----------|---|
| 88MHz Unmodulated | 88MHz | DC probe of VTVM to B. | L1B,L1A | Adjust for maximum. |
| 108MHz Unmodulated | 108MHz | " | C3,C2,C1 | 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.



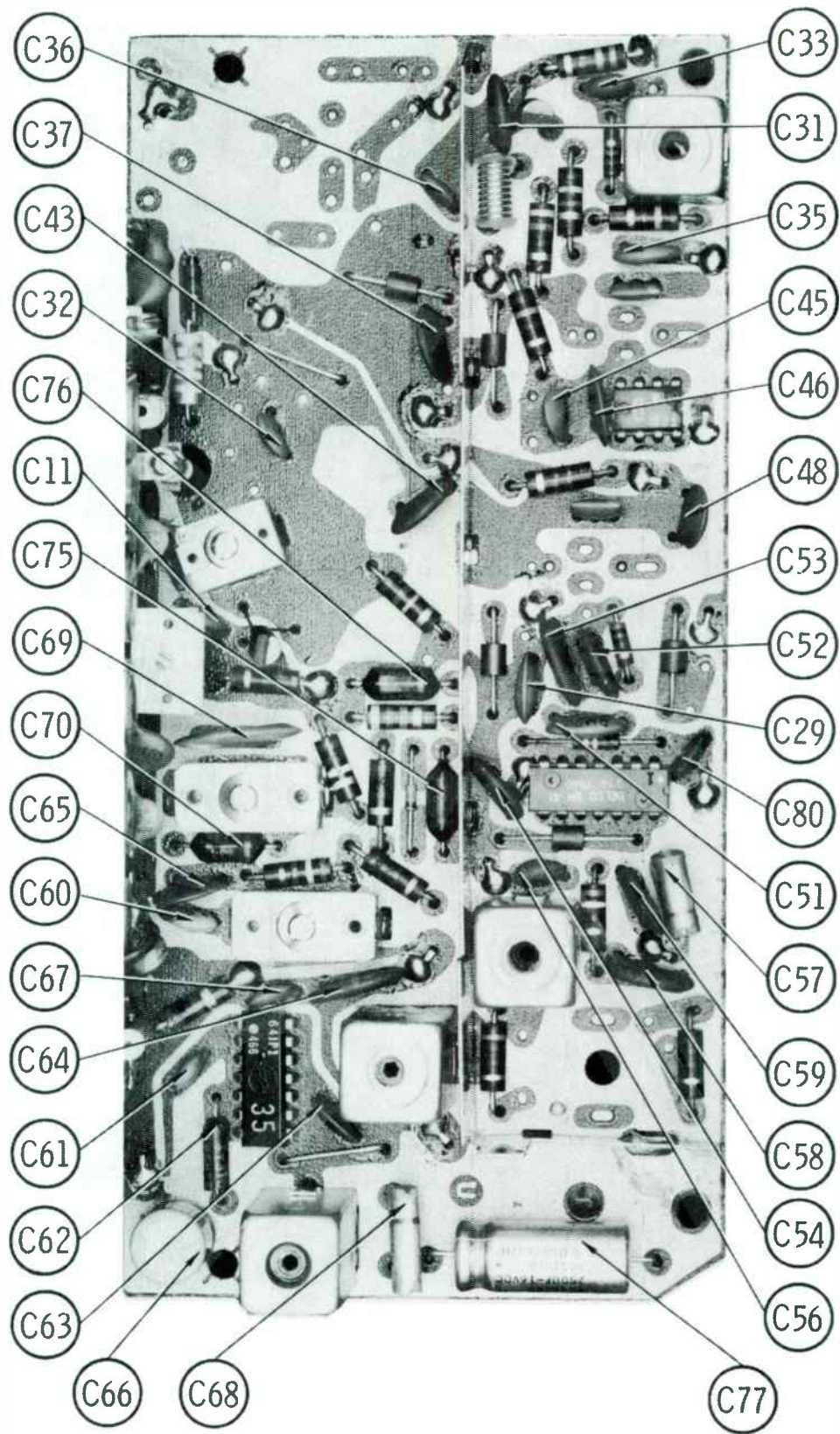
OVERALL



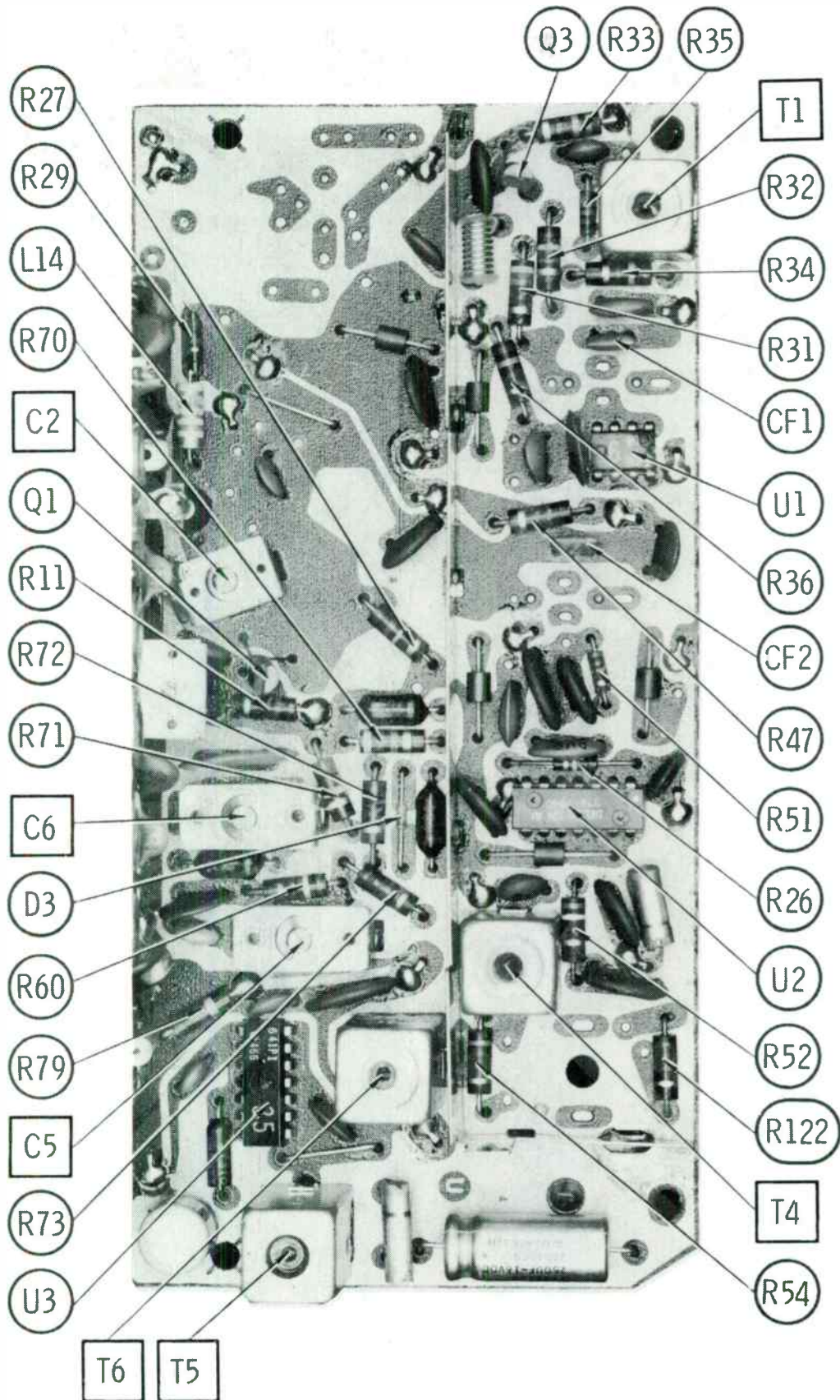
CADILLAC MODEL 76C1PK1

▲ AM

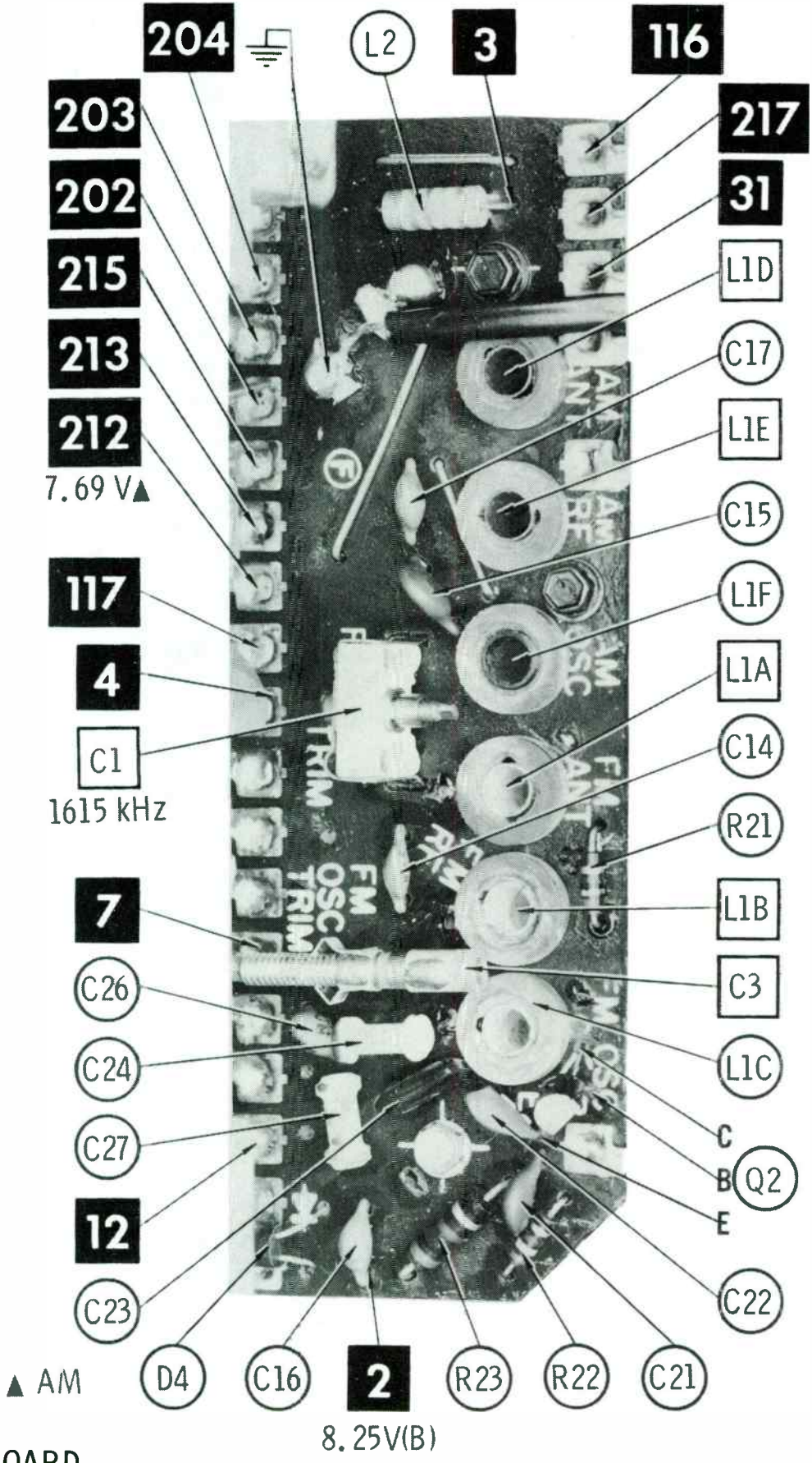
AM/FM BOARD



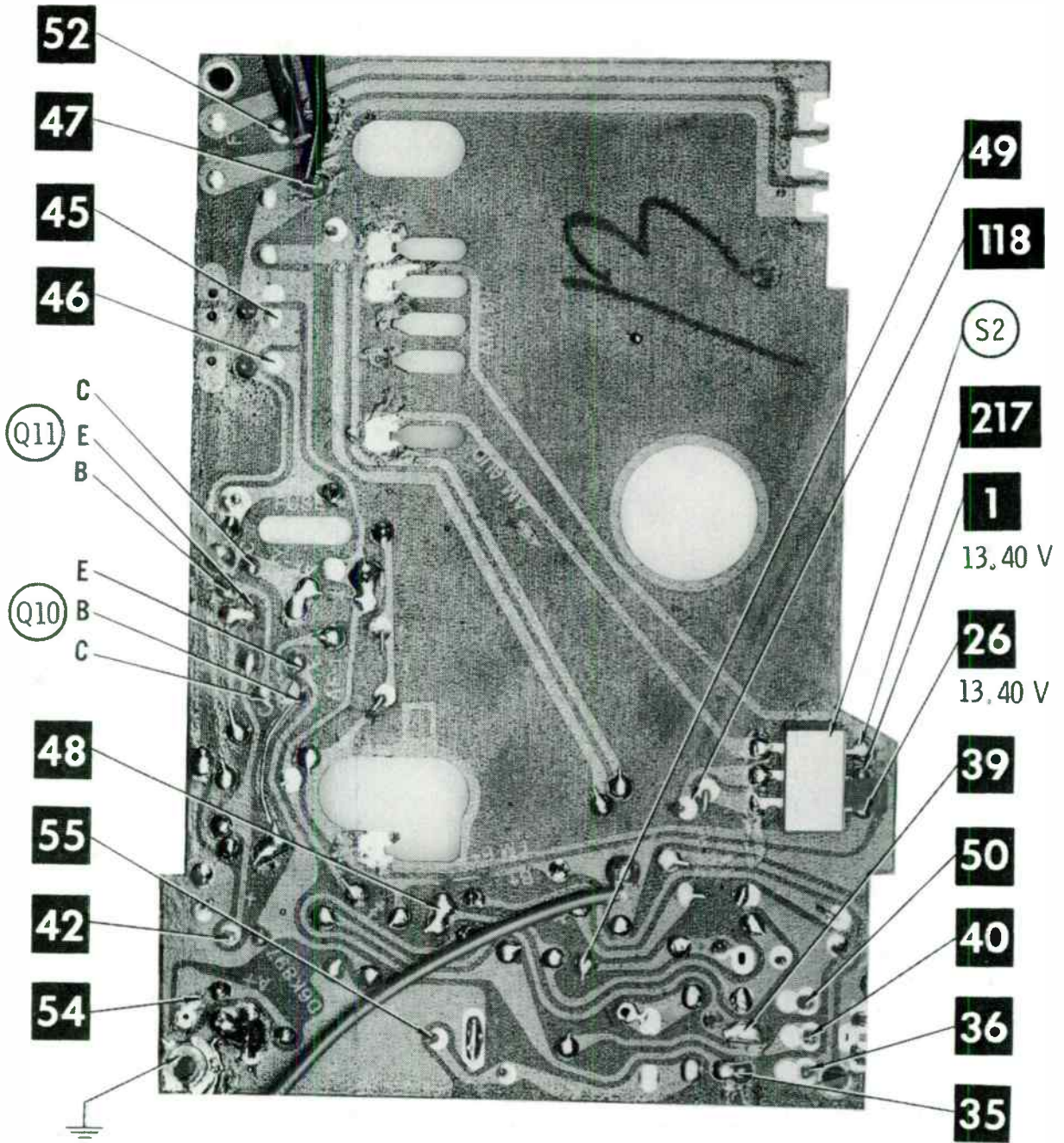
AM/FM BOARD



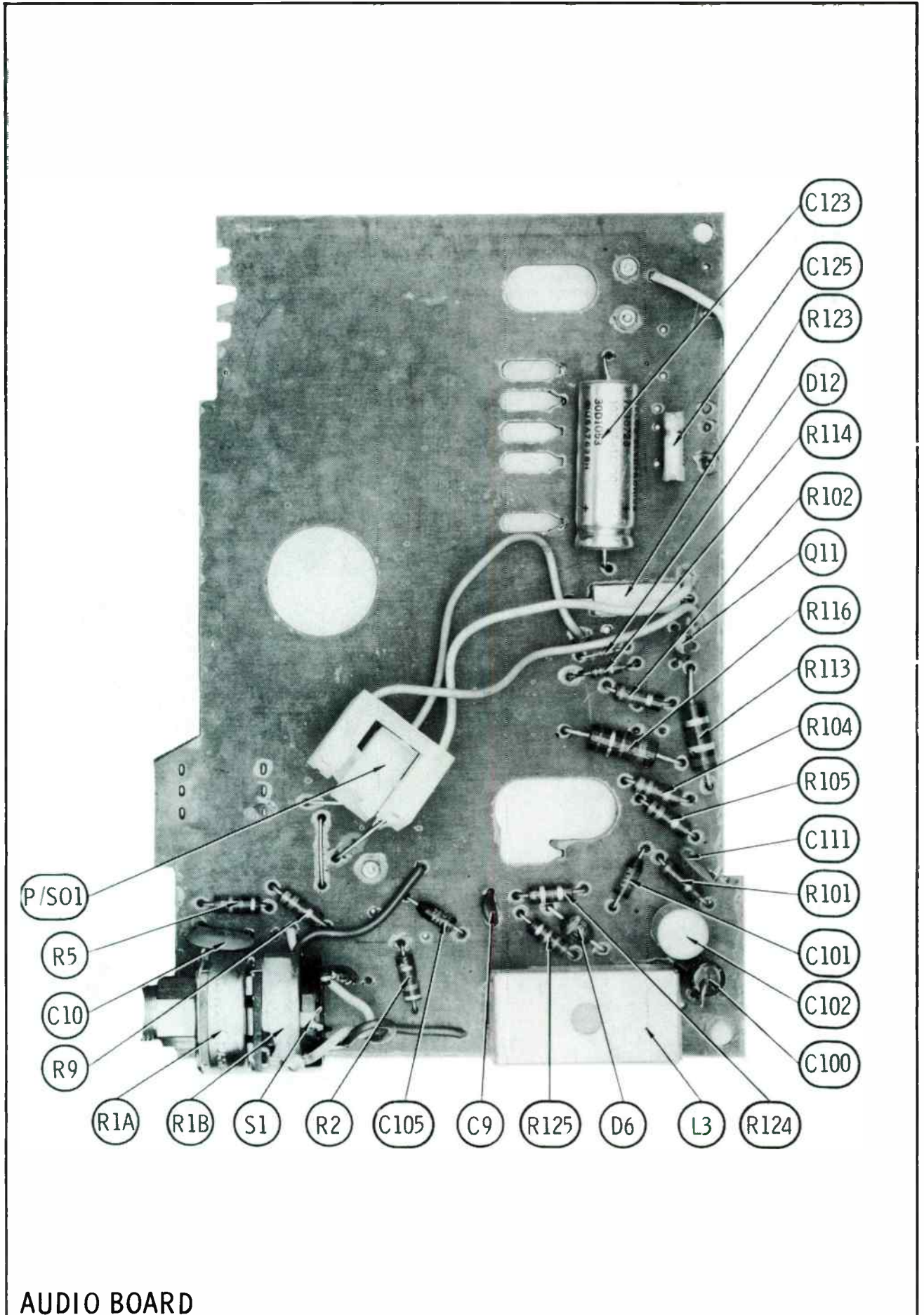
AM/FM BOARD



COIL BOARD



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. | MFGR. PART No. | REPLACEMENT DATA | | | | | | | |
|----------|-----------|----------------|---------------------------|---------------------|------------------|-------------------|-------------------|--------------|------------------|-------------------|
| | | | GENERAL ELECTRIC PART No. | IR WORKMAN PART No. | MALLORY PART No. | MOTOROLA PART No. | RAYTHEON PART No. | RCA PART No. | SPRAGUE PART No. | SYLVANIA PART No. |
| D3 | DS-97 | | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| D4 | BJ-155 | | GE-90 | D201 | | HEPR2503 | RE 195 | SK3126 | RT-262 | |
| | DS-55 (1) | | GE-90 | D201 | | HEPR2503 | RE 195 | SK3126 | RT-262 | |
| D6 | DS-79 | | GE-504A | 5A4D | PTC201 | HEPR0052 | RE 49 | SK3030 | RT-213 | ECG116 |
| D12 | DS-189 | | GEZD-11 | | ZB11A | HEP20414 | RE 116 | SK3139 | RT-242 | ECG5074 |
| Q1 | DS-88 | | GE-50 | TR-17 | PTC107 | HEPG0003 | RE 27 | SK3006 | RT-183 | ECG160 |
| Q2 | BI-82 | | GE-22 | TR-30 | PTC131 | HEPS0013 | RE 53 | SK3118 | RT-126 | ECG106 |
| | DS-82 (1) | | GE-22 | TR-30 | PTC131 | HEPS0013 | RE 53 | SK3118 | RT-126 | ECG106 |
| Q3 | DS-74 | | GE-61 | TR-24 * | PTC115 * | HEPS0016 | RE 9 * | SK3018 * | RT-108 * | ECG107 * |
| Q10 | BF-66 | | GE-17 | TR-21 | PTC121 * | HEPS5014 | RE 13 | SK3124 * | RT-172 | ECG123A |
| | DS-66 (1) | | GE-17 | TR-21 | PTC121 * | HEPS5014 | RE 13 | SK3124 * | RT-172 | ECG123A |
| Q11 | BG-66 | | GE-17 | TR-21 | PTC121 * | HEPS5014 | RE 13 | SK3124 * | RT-172 | ECG123A |
| | DS-66 (1) | | GE-17 | TR-21 | PTC121 * | HEPS5014 | RE 13 | SK3124 * | RT-172 | ECG123A |
| Q12 | DS-501 | | GE-4 * | TR-03 * | PTC106 | HEPG6004 | RE 8 * | SK3012 * | | ECG105 * |
| U1 | BM-9 | | GEIC-17 | | PTC736 | | RE 316-1C | | TVCM-20 | ECG736 |
| U2 | DM-41 | | GEIC-16 | | PTC737 | | RE 315-1C | | TVCM-18 | ECG737 |
| U3 | DM-35 | | | | PTC734 | | | | | ECG806 |

* Lead configuration may vary from original.
(1)Used in some versions.

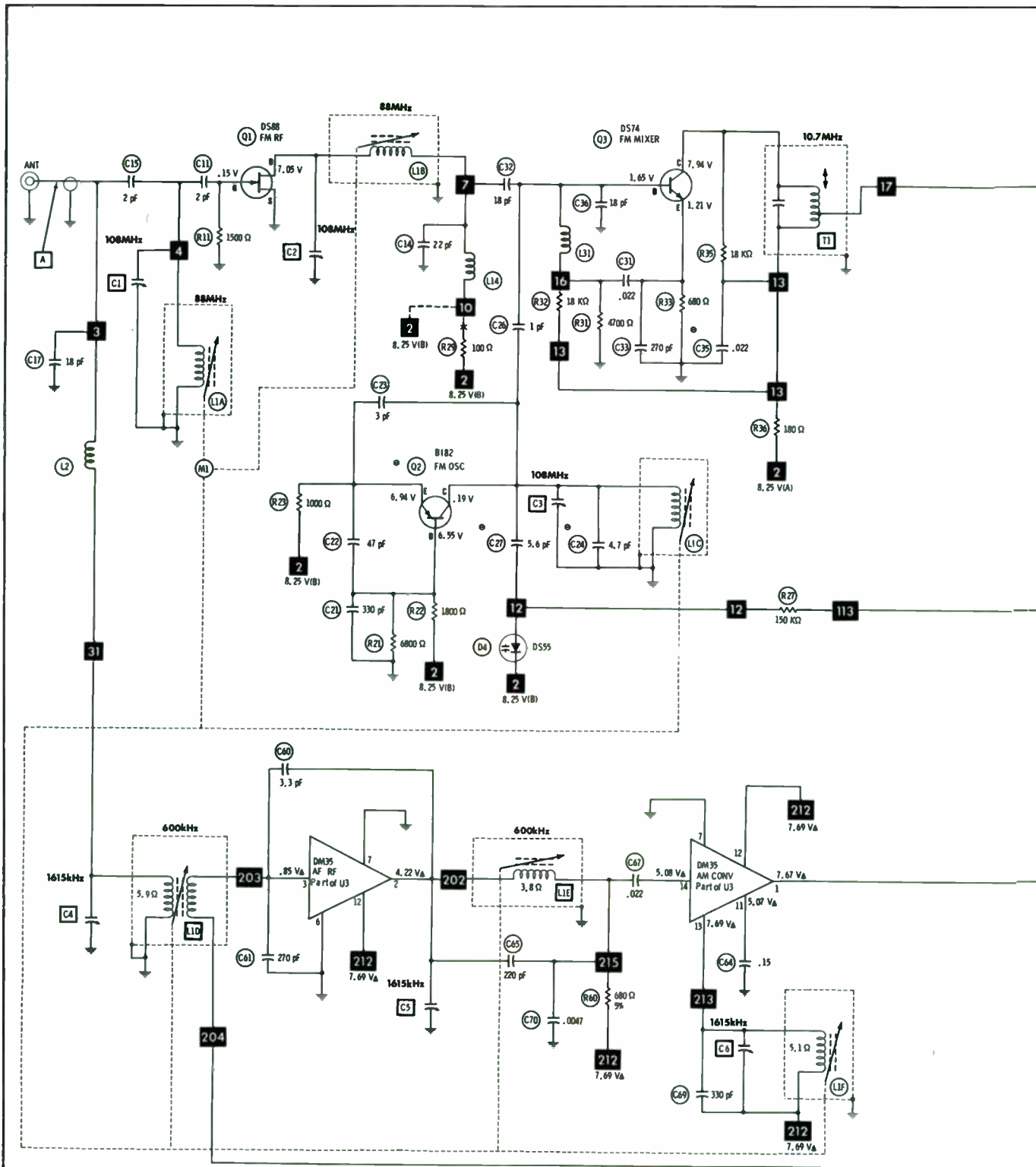
ELECTROLYTIC CAPACITORS

| ITEM No. | RATING | REPLACEMENT DATA | | | | | |
|----------|----------|------------------|---------------------------|------------------|------------------|--------------|-----------|
| | | MFGR. PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | | |
| | | | | | Q-LINE | GENERAL LINE | |
| C7 | 1000 16V | 9341267 | 336 | WBR1000-16 | TC1501C | QE1-591 | TVA-1163 |
| C62 | 3 10V | 7296348 | 375 | | TDC335M015FL | QDT1-41 | SD15-3R39 |
| C66 | 40 16V | 9340269 | 390 | | TDC4761020GL | QDT1-98 | S020-479 |
| C77 | 250 16V | 7936628 | | PC250-25 | VTT330H16 | QE1-495 | TVA-1161 |
| C101 | 3 10V | 7296348 | 375 | | TDC335M015FL | QDT1-41 | SD15-3R39 |
| C102 | 250 3V | 7312284 | | | | | |
| C105 | 3 10V | 7296348 | 375 | | TDC335M015FL | QDT1-41 | SD15-3R39 |
| C123 | 1000 16V | 9341267 | 336 | WBR1000-16 | TC1501C | QE1-591 | TVA-1163 |

CAPACITORS

| ITEM No. | RATING | MFGR. PART No. | REPLACEMENT DATA | | | | |
|----------|----------------|----------------|--------------------|---------------------------|------------------|------------------|--------------|
| | | | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| | | | | | | Q-LINE | GENERAL LINE |
| C1 | | 9340022 | | | | | |
| C2 | | 7312524 | | | | | |
| C3 | | 9340023 | | | | | |
| C4 | | 9342197 | | | | | |
| C5 | | 7936524 | | | | | |
| C6 | | 7311368 | | | | | |
| C8 | | | | | | | |
| C9 | .015 16V | | | | MAG25115 | | HY-720 |
| C10 | .15 16V | | | | MAG16015 | | HY-665 |
| C11 | 2 NPO | | UK16-154 | NPO2P2 | CN0522 | | 10TCC-V22 |
| C14 | 22 5% 100V NPO | | DTZ-2R2 | NPO22 | CN0422 | | 10TCC-Q22 |
| C15 | 2 NPO | | DTZ-2R2 | NPO2P2 | CN0522 | | 10TCC-V22 |
| C16 | 270 10% 100V | | DD-271 | GP270 | GP327 | | 10TS-T27 |
| C17 | 18 100V NPO | | | | CN0418 | | 10TCC-Q18 |
| C21 | 330 10% | | DD-331 | GP330 | GP333 | | 10TS-T33 |
| C22 | 47 5% 100V NPO | | DTZ-4R7 | NPO47 | CN0447 | | 10TCC-Q47 |
| C23 | 3 +.5pF 100V | 9341538 | | | | | |
| C24 | 2.7 | | DTZ-2R2 | NPO2P2 | CN0522 | | 10TCC-V22 |
| | 4.7 N330 | (3) | DTZ-4R7 | NPO4P7 | CN0547 | | 10TCC-V47 |
| C26 | 1 NPO | | | | CN0510 | | 10TCC-V10 |
| C27 | 6.8 | 9343070 | | | | | |
| | 4.7 | (3) | DTZ-4R7 | NPO4P7 | CN0547 | | 10TCC-V47 |
| C29 | .05 16V | | DC-503 | MGP05 | TA150 | QC2-207 | TG-S50 |
| C31 | .022 | | DC-203 | MGP02 | TA120 | QC2-157 | TG-S20 |
| C32 | 18 5% NPO | | | | CN0418 | | 10TCC-Q18 |
| C33 | 270 10% 100V | | DD-271 | GP270 | GP327 | | 10TS-T27 |
| C35 | .022 | 9343449 (2) | | | | | |
| C36 | 18 5% NPO | | | | CN0418 | | 10TCC-Q18 |
| C37 | .022 | 9343449 (2) | | | | | |
| C43 | .022 | 9343449 (2) | | | | | |
| C45 | .0022 | | DD-222 | | GP222 | QC2-97 | 5GA-D22 |
| C46 | .022 | | OC-203 | MGP02 | TA120 | QC2-157 | TG-S20 |
| C48 | .022 | 9343449 (2) | | | | | |
| C51 | .022 | 9344538 (1) | | | | | |
| | .022 | 9343449 (3) | | | | | |
| | .022 | 9343449 (2) | | | | | |
| C52 | .022 | | | | | | |
| C53 | .1 16V | | UK16-104 | | MAG1601 | | HY-650 |
| C54 | .022 | 9343449 (2) | | | | | |
| C56 | 4.7 NPO | | DTZ-4R7 | NPO4P7 | CN0547 | | 10TCC-V47 |
| C57 | .012 | | | WMF1S12 | EWFA1112 | | 1PB-S12 |
| C58 | .1 16V | | UK16-104 | | MAG1601 | | HY-650 |
| | .15 | (3) | | | | | |
| C59 | .022 | 9343449 (2) | | | | | |
| | 270 | (3) | | | | | |
| C60 | 3.3 NPO | | DD-271 | GP270 | GP327 | | 10TS-T27 |
| | | | DTZ-3R3 | NPO3P3 | CN0533 | | 10TCC-V33 |

CADILLAC MODEL 76CFPK1



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

A PHOTOFACT STANDARD NOTATION SCHEMATIC
WITH **CIRCUITACE**

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Measurements with switching as shown unless noted:
▲ AM

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

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

CAPACITORS (cont)

| ITEM No. | RATING | MFR. PART No. | REPLACEMENT DATA | | | | |
|----------|---------------|---------------|--------------------|---------------------------|------------------|------------------|--------------|
| | | | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| | | | | | | Q-LINE | GENERAL LINE |
| C61 | 270 10% 100V | 160 | DD-271 | GP270 | GP327 | 10TS-T27 | |
| C63 | 27 5% NPO | 123 | | | CN0427 | 10TCC-Q27 | |
| C64 | .15 16V | 503 | UK16-154 | | MAG16015 | HY-665 | |
| C65 | 220 5% N750 | 401 | DTN-220 | N220 | CN7322 | 10TCU-T22 | |
| C67 | .022 | 197 | DC-203 | MGP02 | TA120 | TG-S20 | |
| C68 | .047 | | | | EMF1A147 | 1PB-S47 | |
| C69 | 330 100V N180 | 7297598 | | | | | |
| C70 | .0047 | 217 | | WMF1D47 | EMF1A247 | QF1-57 | 1PB-D47 |
| C75 | .0047 | 217 | | WMF1D47 | EMF1A247 | QF1-57 | 1PB-D47 |
| C76 | .0047 | 217 | | WMF1D47 | EMF1A247 | QF1-57 | 1PB-D47 |
| C80 | .001 10% | 170 | DD-102 | | GP210 | 10TS-D10 | |
| C100 | .12 | 472 | | WMF05P12 | MJ 92P1249R8 | 192P1249R8 | |
| C111 | .0022 | 179 | 00-222 | | GP222 | 5GA-D22 | |
| C125 | .05 | 247 | | DPMS2S5 | EMF1A150 | 2PS-S50 | |

- (1) Number on unit.
 (2) Special bypass. Use exact replacement.
 (3) Used in some versions.

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

| ITEM No. | FUNCTION | RESISTANCE | REPLACEMENT DATA | | | | |
|----------|-------------------|------------|------------------|--------------------|--------------------|------------------|--------------|
| | | | MFR. PART No. | CENTRALAB PART No. | CLAROSTAT PART No. | MALLORY PART No. | TRW PART No. |
| | | | | | | | |
| R18 | Tone/Power Switch | 40K | | | | | |
| R139 | Fader | 100 2W | 7896396 | | | | |

(18) Includes R1A and R1B.

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. |
| R123 | .47 Fusible | | 7281890 | | | | |

COILS (RF-IF)

| ITEM No. | FUNCTION | REPLACEMENT DATA | | | REMARKS |
|----------|--------------------|------------------|----------------------|-----------------|------------------------|
| | | PART No. | OTHER IDENTIFICATION | MILLER PART No. | |
| L1A | Antenna | (1) | | | (1) Part of M1 (Tuner) |
| L18 | FMRF (88MHz) | (1) | | | |
| L1C | FM Osc | (1) | | | |
| L1D | AM RF (600kHz) | (1) | | | |
| L1E | AM Osc (600kHz) | (1) | | | |
| L1F | AM IF | (1) | | | |
| L2 | RF Choke | 7934553 | | | |
| L14 | RF Choke | | | | |
| L31 | RF Choke | 7291800 | | | |
| T1 | FM Mixer (10.7MHz) | 9340289 | 0289 | | |
| T4 | FM IF (10.7MHz) | 7311554 | | | |
| T5 | AM IF (262kHz) | 7930517 | 119-76-296-7930517 | | |
| T6 | AM IF (262kHz) | 9341433 | 9341433-27317632 | | |

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 | 1.1A | .48 | .67mH | 7939202 | | | |

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.

TRANSFORMER (Audio Output)

| ITEM No. | IMPEDANCE | | REPLACEMENT DATA | | | NOTES |
|----------|-----------|------|------------------|---------------------|----------------|-------|
| | PRI. | SEC. | MFR. PART No. | THORDARSON PART No. | TRIAD PART No. | |
| | | | | | | |

SPEAKER

| ITEM No. | TYPE | REPLACEMENT DATA | | NOTES |
|----------|--------------------|------------------|---------------|----------------------|
| | | MFR. PART No. | QUAM PART No. | |
| SP1 | 3 1/2" PM 10 Ohms | 7895010 | | Left and Right Front |
| SP2 | 6" X 9" PM 10 Ohms | 9348870 | | |

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 | 10A | | In Fuse Block | AGC10 | | | | |

MISCELLANEOUS

| ITEM No. | PART NAME | PART No. | NOTES |
|----------|-----------------------|-------------|--|
| CF1 | Filter | 1223695 (1) | 10.7MHz, Ceramic (Red dot) |
| CF2 | Filter | 1223695 (1) | |
| M1 | Tuning Coil Assembly | 9343176 | 10.7MHz, Ceramic (Red dot) |
| S1 | Switch | | AM/FM Coils, Circuit Board and Trimmers |
| S2 | Switch | 9343641 | On/Off (On Volume) |
| P2 | Connector | 9349532 | AM/FM |
| S01 | Connector | 9347041 | Power & Speaker (11 Terminals) |
| | Printed Circuit Board | 9343176 | Output (Q12) |
| | | | AM/RF (Includes AM/FM Tuning Coils & Trimmers) |

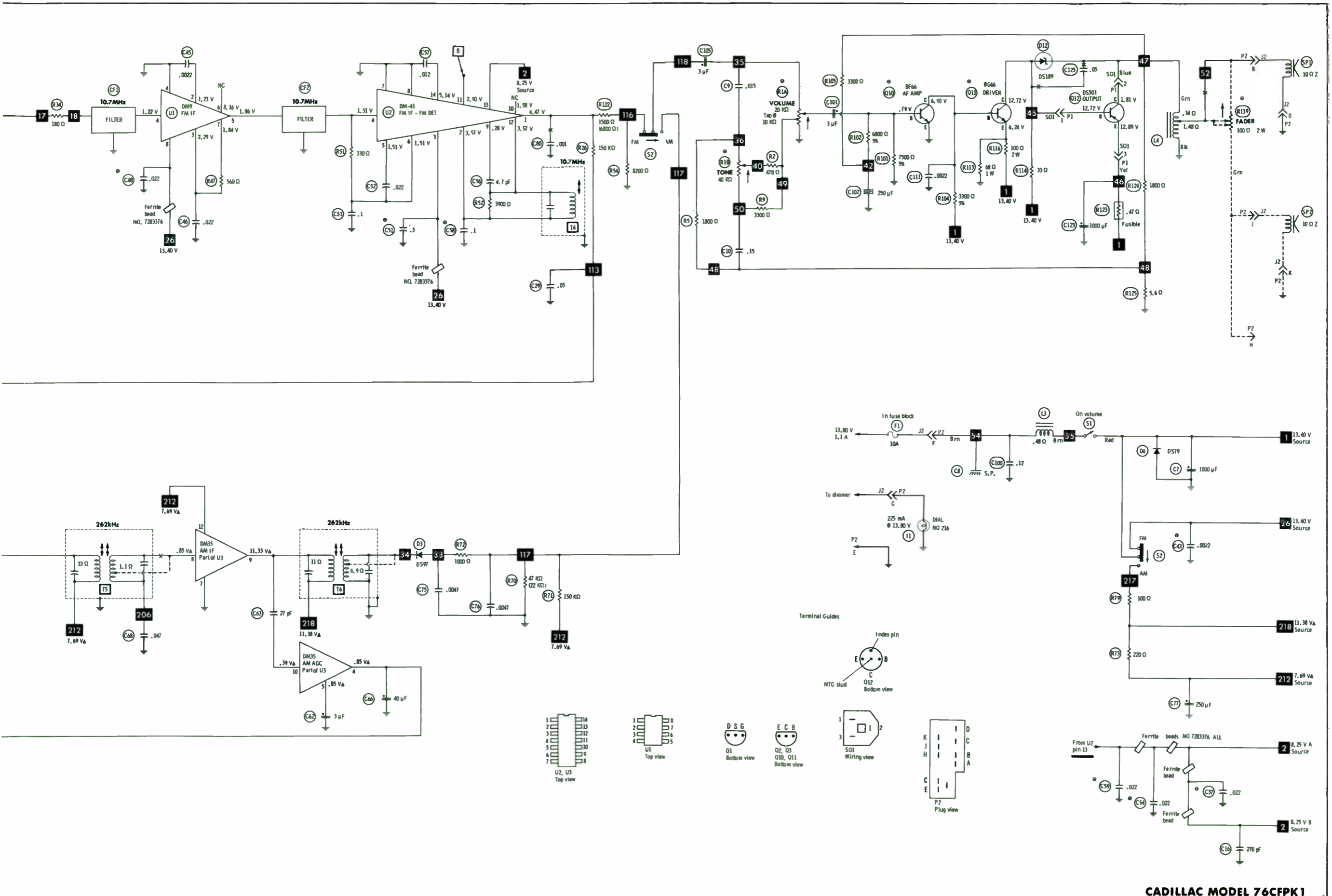
- (1) When replacing, CF1 and CF2 should also be replaced.
 (2) Number on unit.

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

| ITEM | PART No. | ITEM | PART No. |
|---------------------|----------|------------------|----------|
| Escutcheon Assembly | 7896390 | Pointer Assembly | 7896600 |
| Dial Glass Assembly | 7896394 | Pushbutton (Pkg) | 9347704 |
| Slide Bar | 7896388 | | |

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.) |



CADILLAC MODEL 76CFPK1



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



MODEL PE-618A

CLARION MODEL PE-618A

CLEANING LUBRICATING HEAD DEMAGNETIZING

Refer to
"General Servicing Information"
on page 4.

ADJUSTMENTS

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

TROUBLE CHART

| SYMPTOM | REMARKS |
|-----------------------------------|--|
| Capstan does not rotate. | Belt 21 dirty, worn, or broken. Assembly 14 binding. Motor defective or not supplied with power. |
| Track-shift mechanism inoperative | Switch SW7 dirty. Cam 14 binding or worn. Pawl 16C worn. Assembly 9 binding. Solenoid M3 defective or not supplied with power. Cartridge defective. |
| Wow or flutter | Belt 21 dirty or worn. Capstan dirty or binding. Cartridge defective. Motor defective. |
| Sound weak or distorted | Head dirty, misaligned, or defective. Cartridge defective. Amplifiers defective. |

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

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7AL998

TROUBLE CHART (Continued)

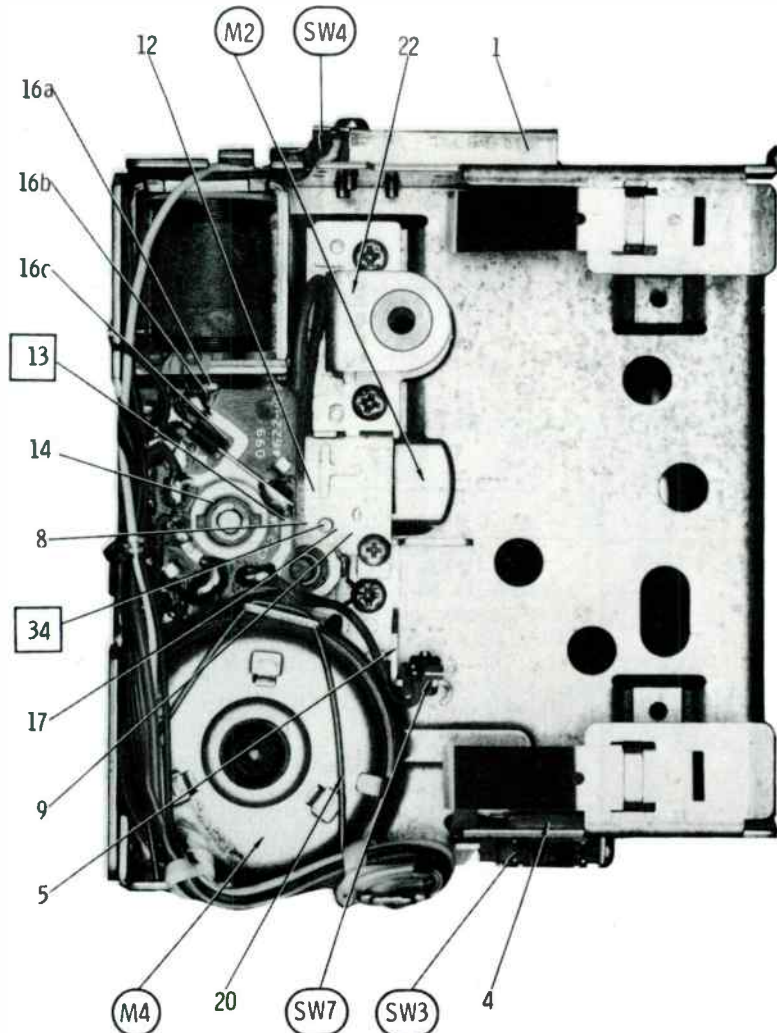
| SYMPTOM | REMARKS |
|---------------------------------------|---|
| Tape is pulled from cartridge. | Cartridge defective. Capstan dirty or scored. |
| Tape play intermittent or inoperative | Guide 4 worn or out of place. Detent 2 worn or binding. Cartridge binding or defective. |

MECHANICAL PARTS LIST

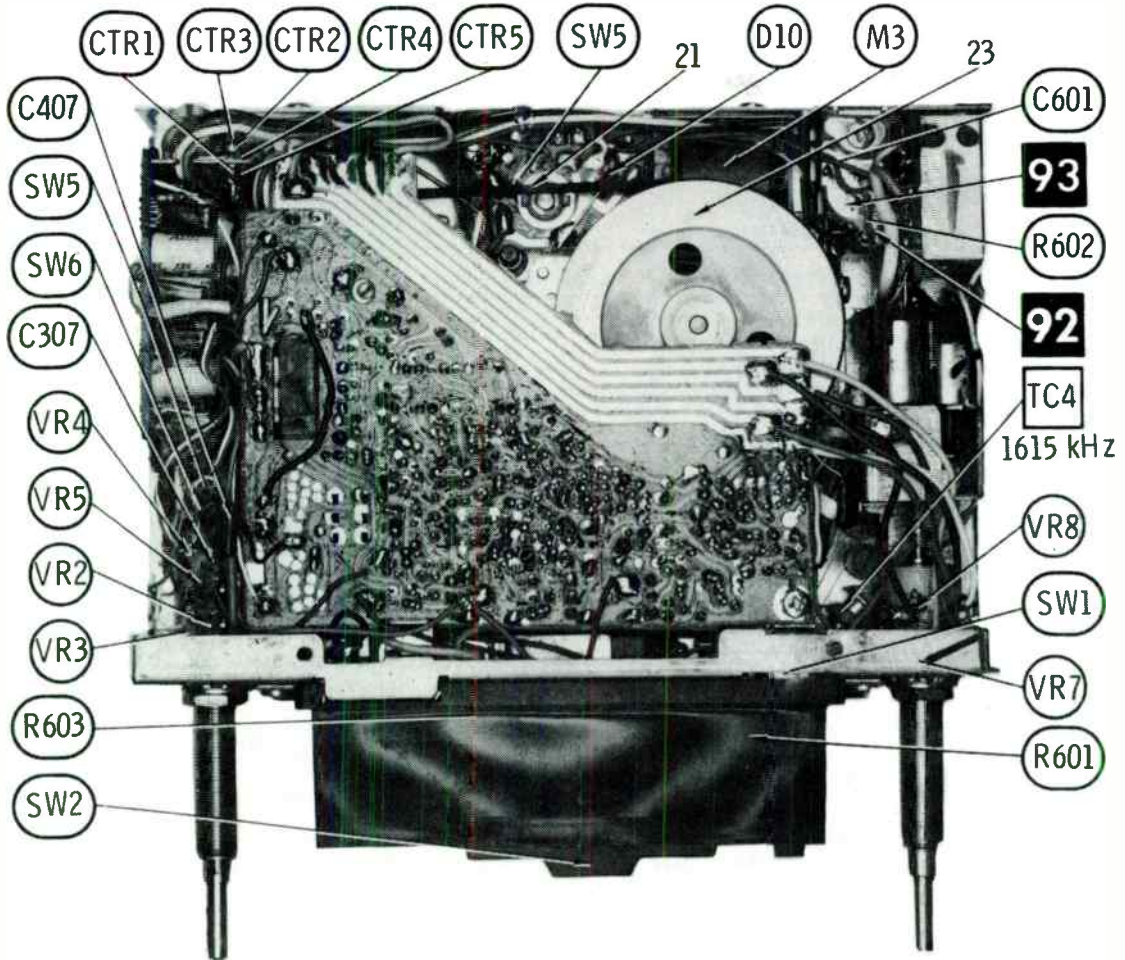
| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|----------|-------------|-----------------------------------|----------|--------------|---------------------------|
| 2 | 960-3006-00 | Pressure Roller (Detent) Assembly | 16a | (1) | Solenoid Plunger |
| 4 | 631-0207-00 | Cartridge Guide | 16b | (1) | Solenoid Plunger |
| 5 | 605-0037-00 | Tape Guide | 16c | (1) | Pawl |
| 8 | 750-1651-00 | Track Change Assembly Spring | 17 | 750-1767-00 | Azimuth Adjustment Spring |
| 9 | 960-3007-01 | Head Mounting Assembly | 20 | 750-1654-00 | Motor Mounting Spring |
| 12 | 750-1765-00 | Height Adjustment Spring | 21* | 602-0042-00* | Flywheel Drive Belt* |
| 13 | 716-0304-00 | Height Adjustment Screw | 22 | 960-3008-00 | Head Housing Assembly |
| 14 | 608-0041-00 | Track Changing Cam | 23 | 611-0044-00 | Flywheel |
| | | | 34 | 715-2616-11 | Azimuth Adjustment Screw |

* Flywheel Drive Belt: E-V/GAME Replacement Number 1425-07.
WALSCO Replacement Number 1425-07.

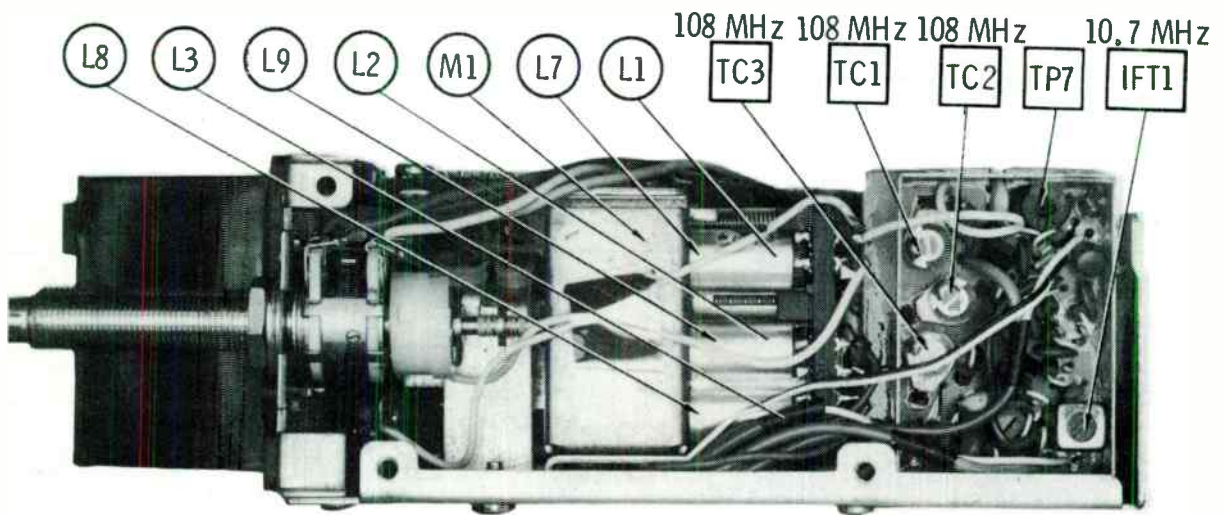
(1)Part of Solenoid (M3).



TAPE DECK-TOP VIEW



CLARION MODEL PE-618A

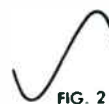
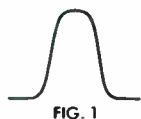


CHASSIS-TOP/SIDE VIEW

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:



PUSH-BUTTON ADJUSTMENT

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

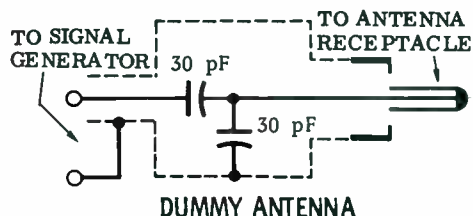
IFT1, IFT4, L12, L13, TC1 thru TC4.....5000, 8277
IFT5, IFT6.....9440

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 TP7. | 262kHz 400-Hz mod. | High freq end stop | IFT6 IFT5 | Adjust for maximum. |
| Thru dummy antenna to antenna input. | 1615kHz | " | TC6, TC5, TC4 | " |

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



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

High side of generator thru .001uF to TP7.

| GENERATOR FREQUENCY | RADIO DIAL SETTING | INDICATOR | ADJUST | REMARKS |
|------------------------|---------------------------|---------------------------|------------------------|---|
| 10.7MHz Unmodulated | Point of non-interference | DC probe of VTVM to TP10. | (1) IFT4 (Pri) IFT1 | Adjust for maximum. |
| " | " | DC probe of VTVM to TP3. | IFT4 (Sec) | Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting. |

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

High side of generator thru .001uF to TP7.
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 TP10. | (1) IFT4 (Pri) IFT1 | Adjust for maximum gain and symmetry of response similar to Fig. 1. |
| " | " | Vert input of scope to TP3. | IFT4 (Sec) | Adjust IFT4 Sec for maximum amplitude and straightness of line, similar to Fig. 2. |

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 TP10 | TC3, TC2, TC1 | Adjust for maximum. |

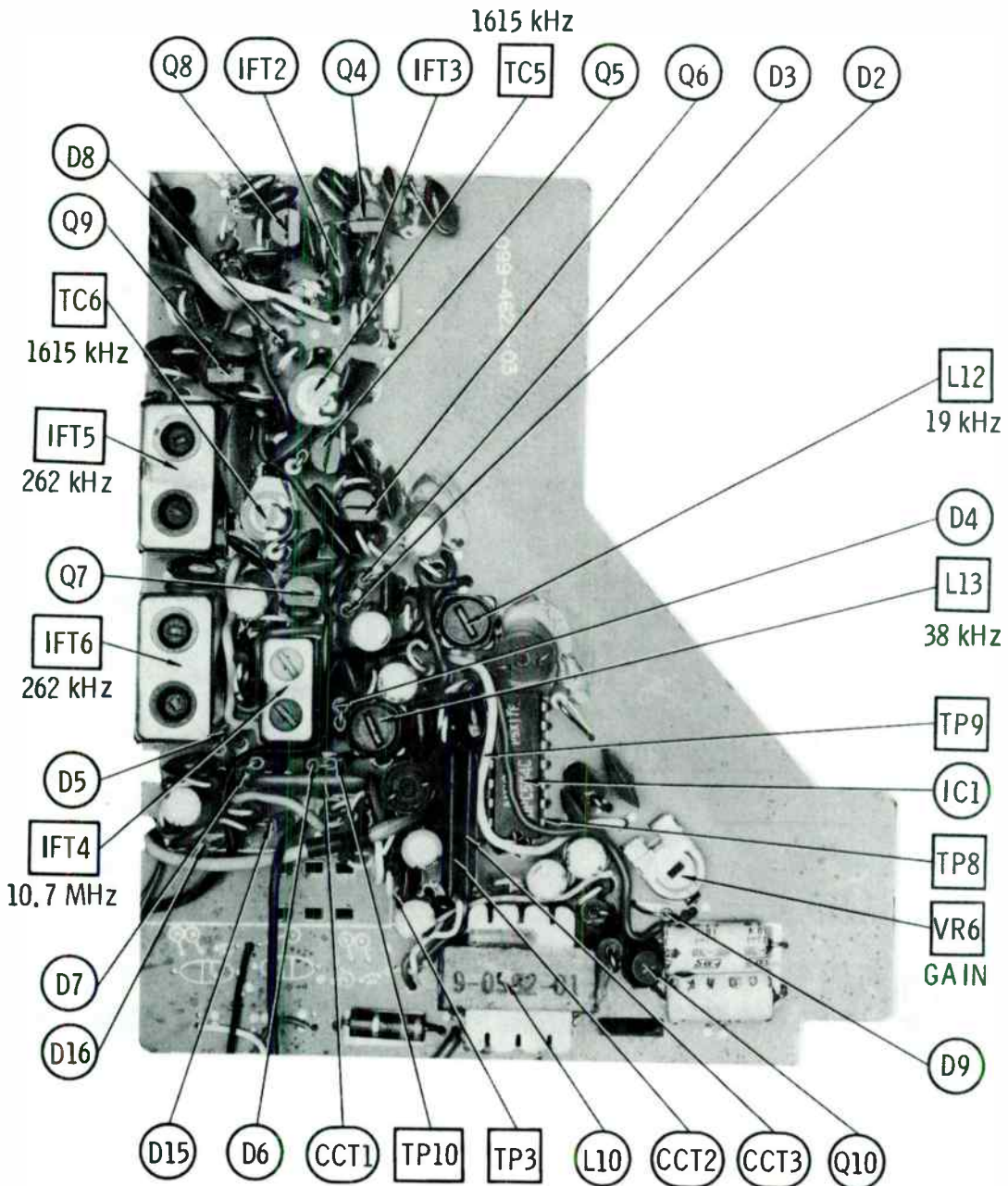
(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

ALIGNMENT INSTRUCTIONS (Continued)

FM STEREO ALIGNMENT USING AUDIO GENERATOR

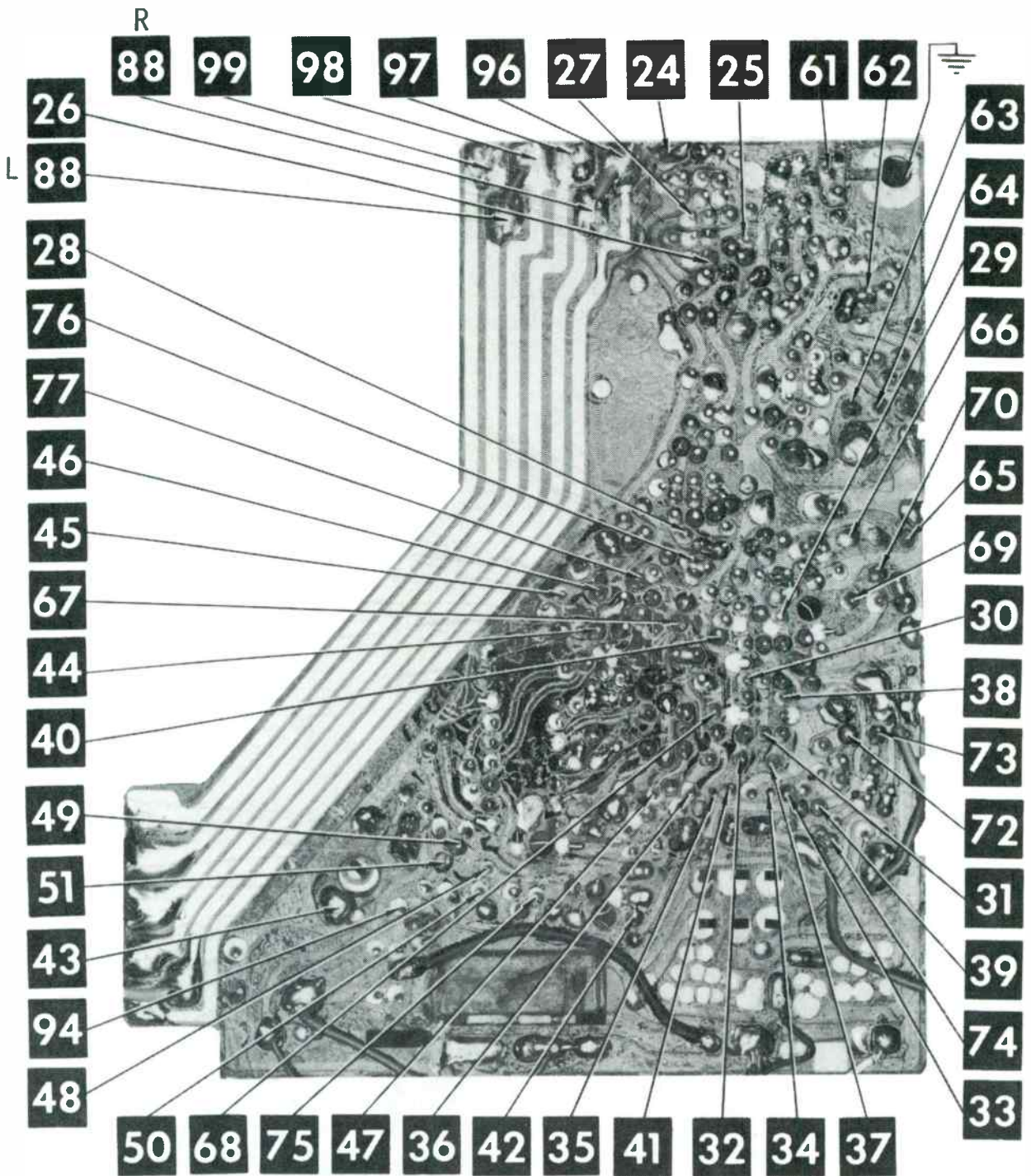
| High side of generator to TP3 Tune receiver off station. | | | |
|--|-----------------------------|--------|------------------------------------|
| GENERATOR FREQUENCY | INDICATOR | ADJUST | REMARKS |
| 19kHz | Vert input of scope to TP8. | L12 | Adjust for maximum 19kHz response. |
| 19kHz | Vert input of scope to TP9 | L13 | Adjust for maximum 38kHz response. |

Tune receiver for a weak stereo signal. Adjust Gain Control VR6 for maximum brilliance of Stereo Indicator.



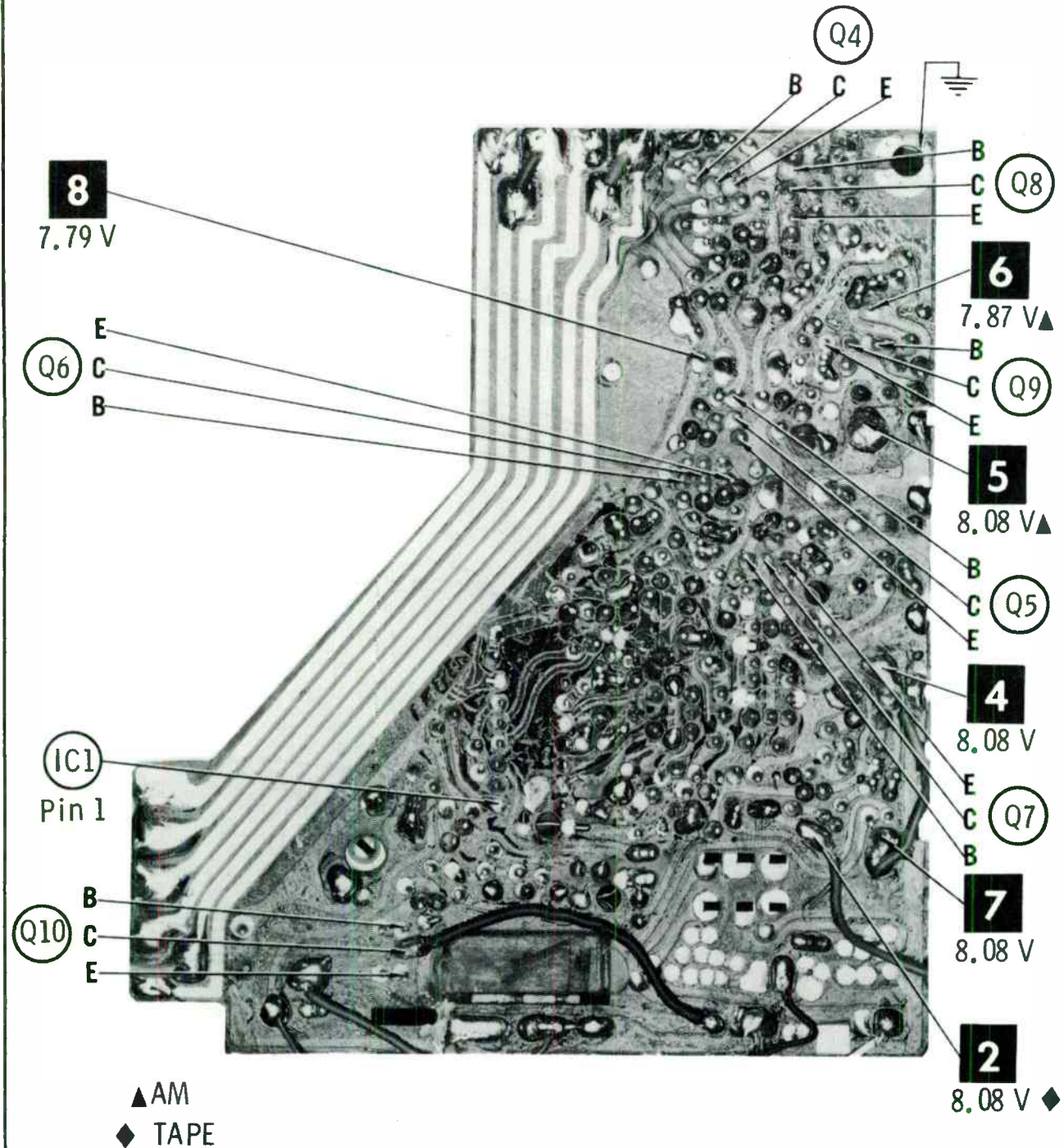
CLARION MODEL PE-618A

MAIN BOARD



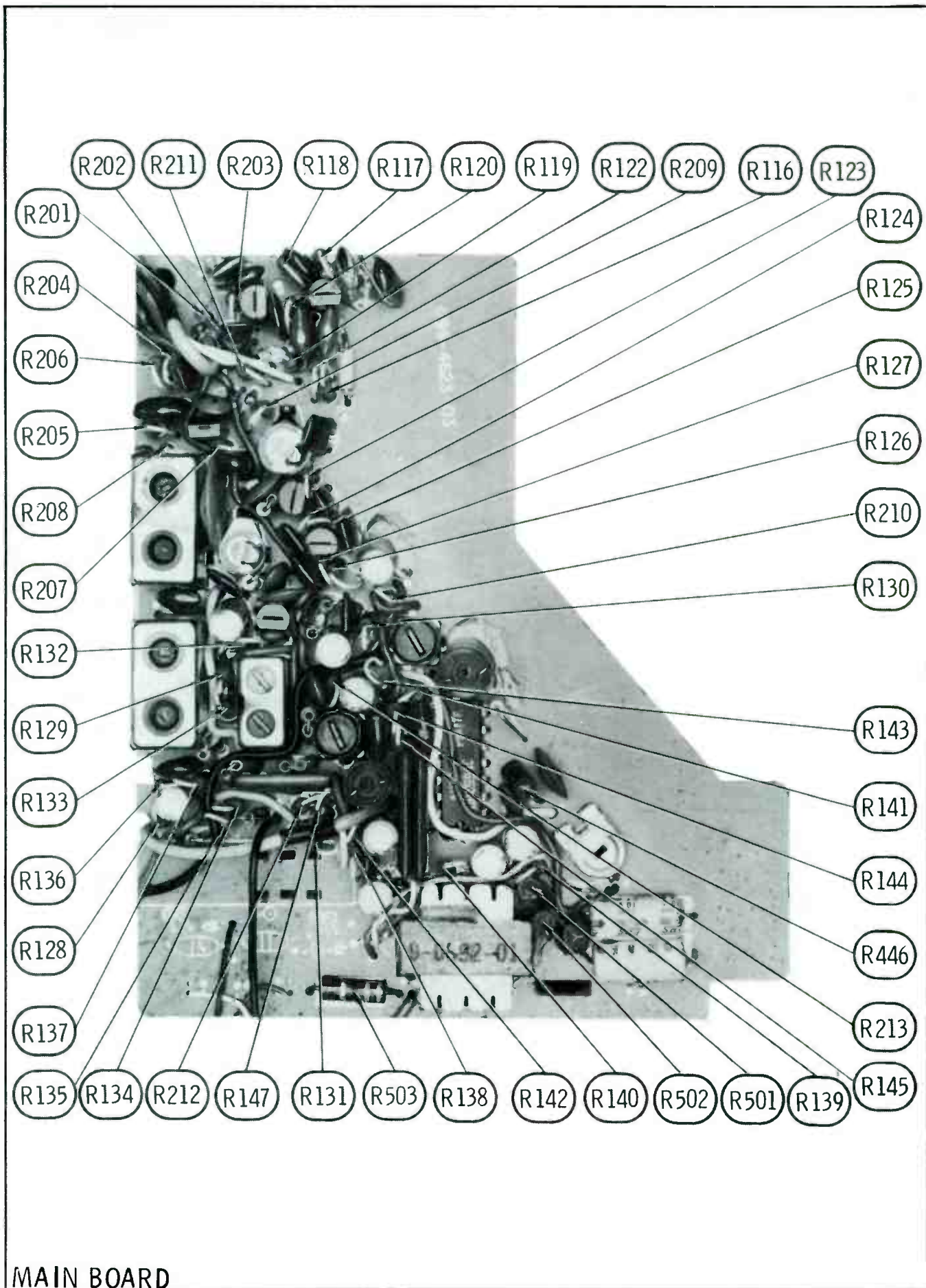
L = Left Channel
R = Right Channel

MAIN BOARD

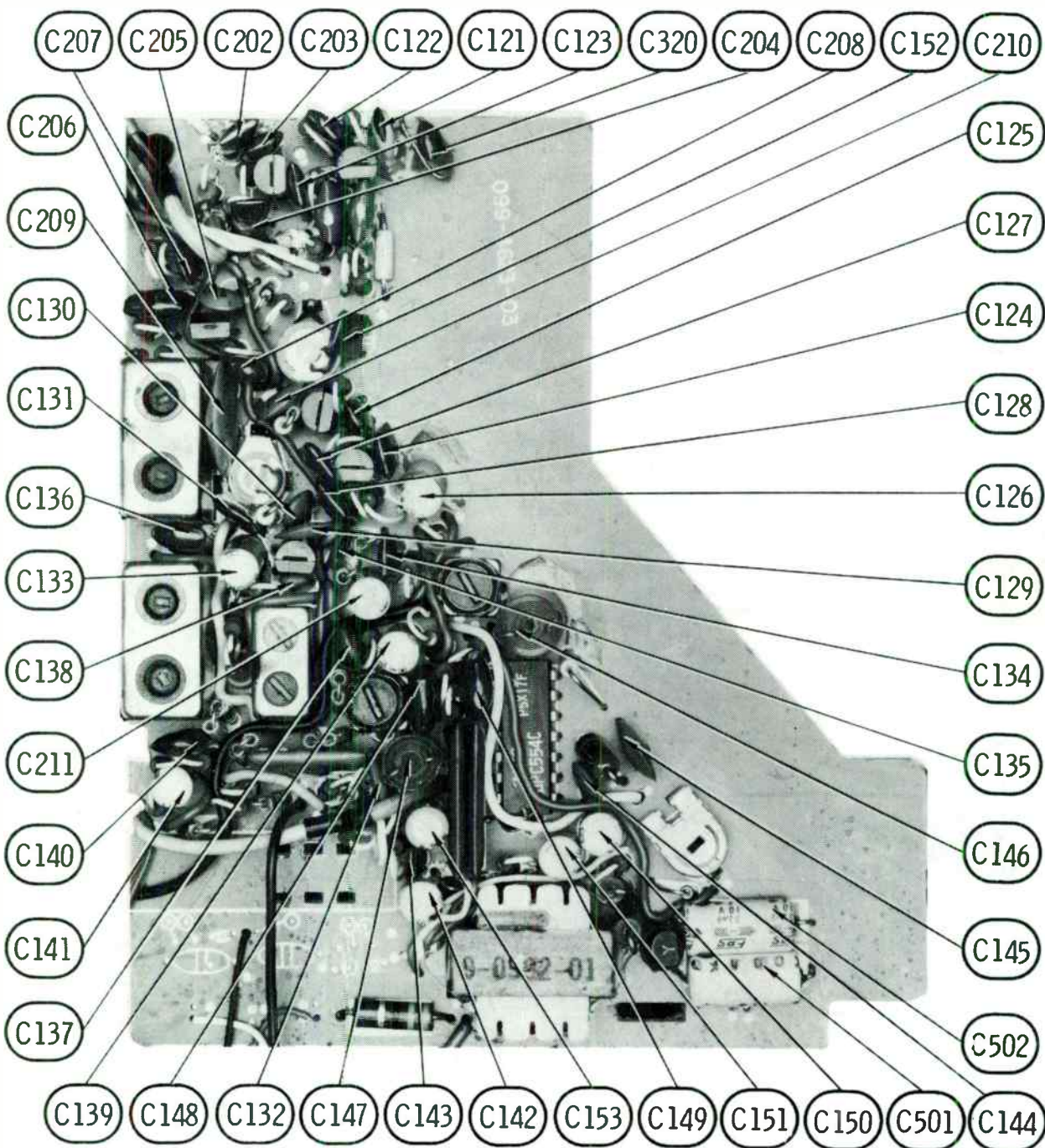


CLARION MODEL PE-618A

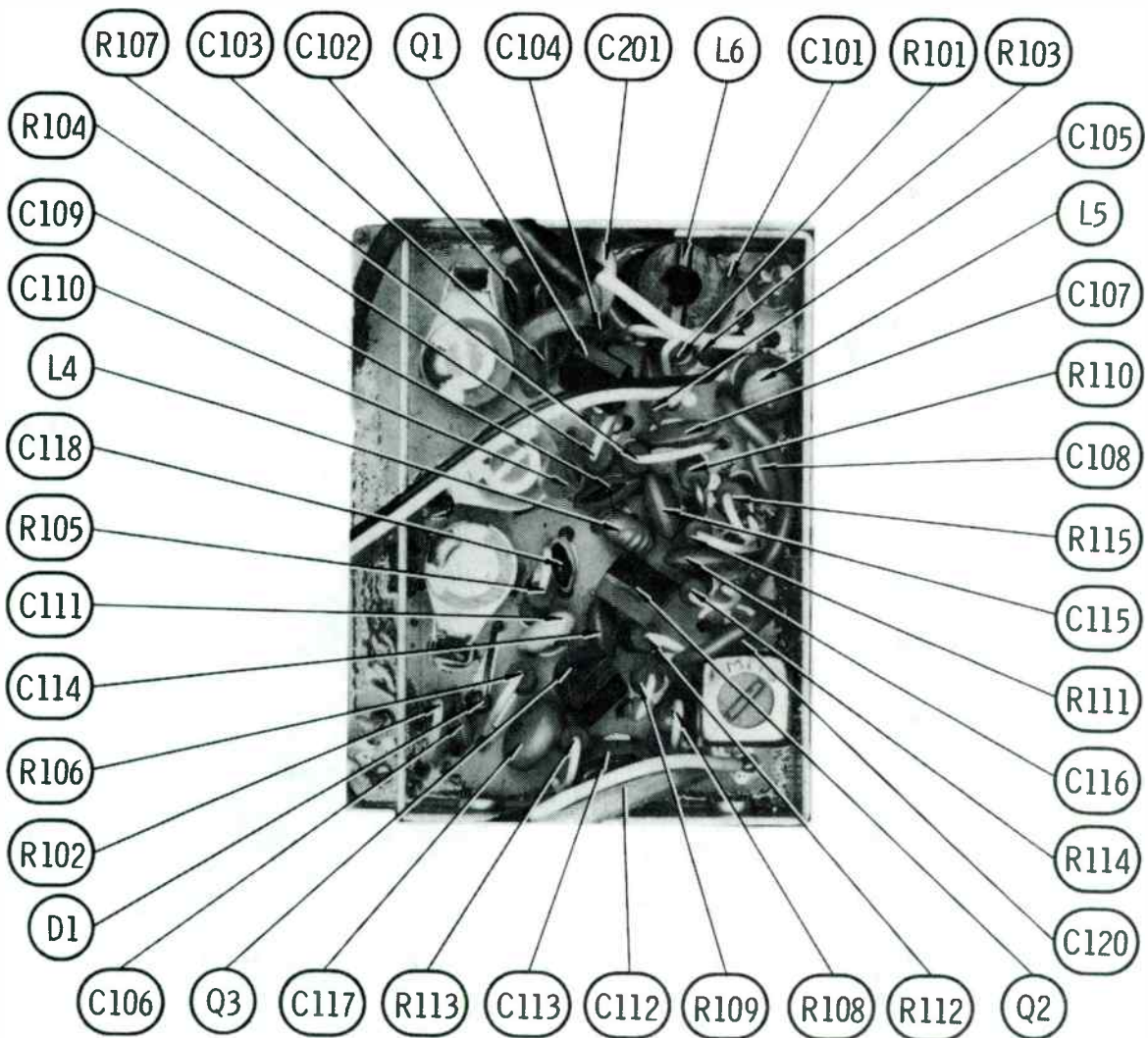
MAIN BOARD



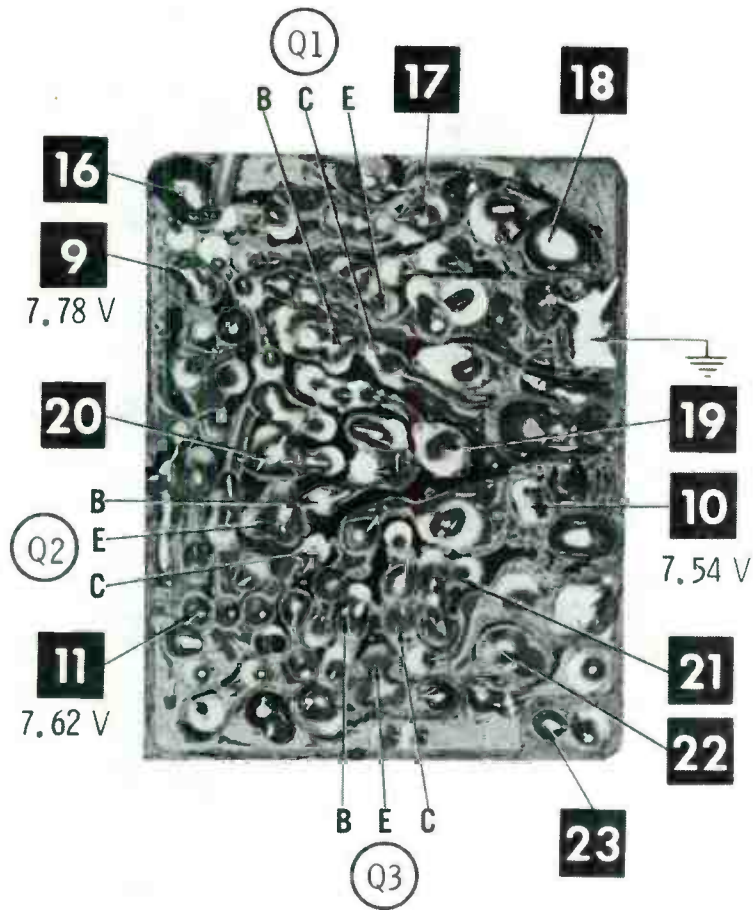
MAIN BOARD



MAIN BOARD

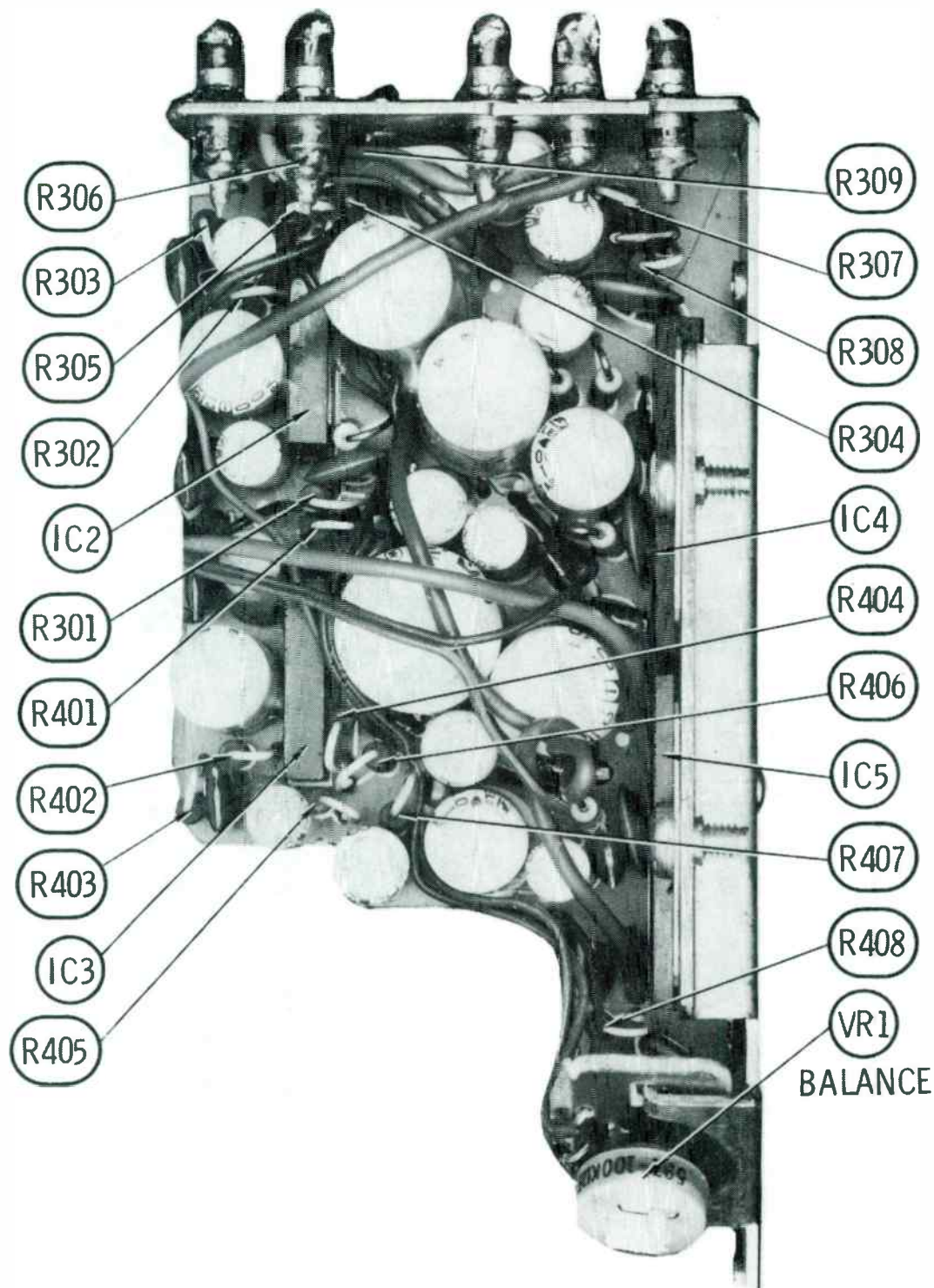


FM RF BOARD

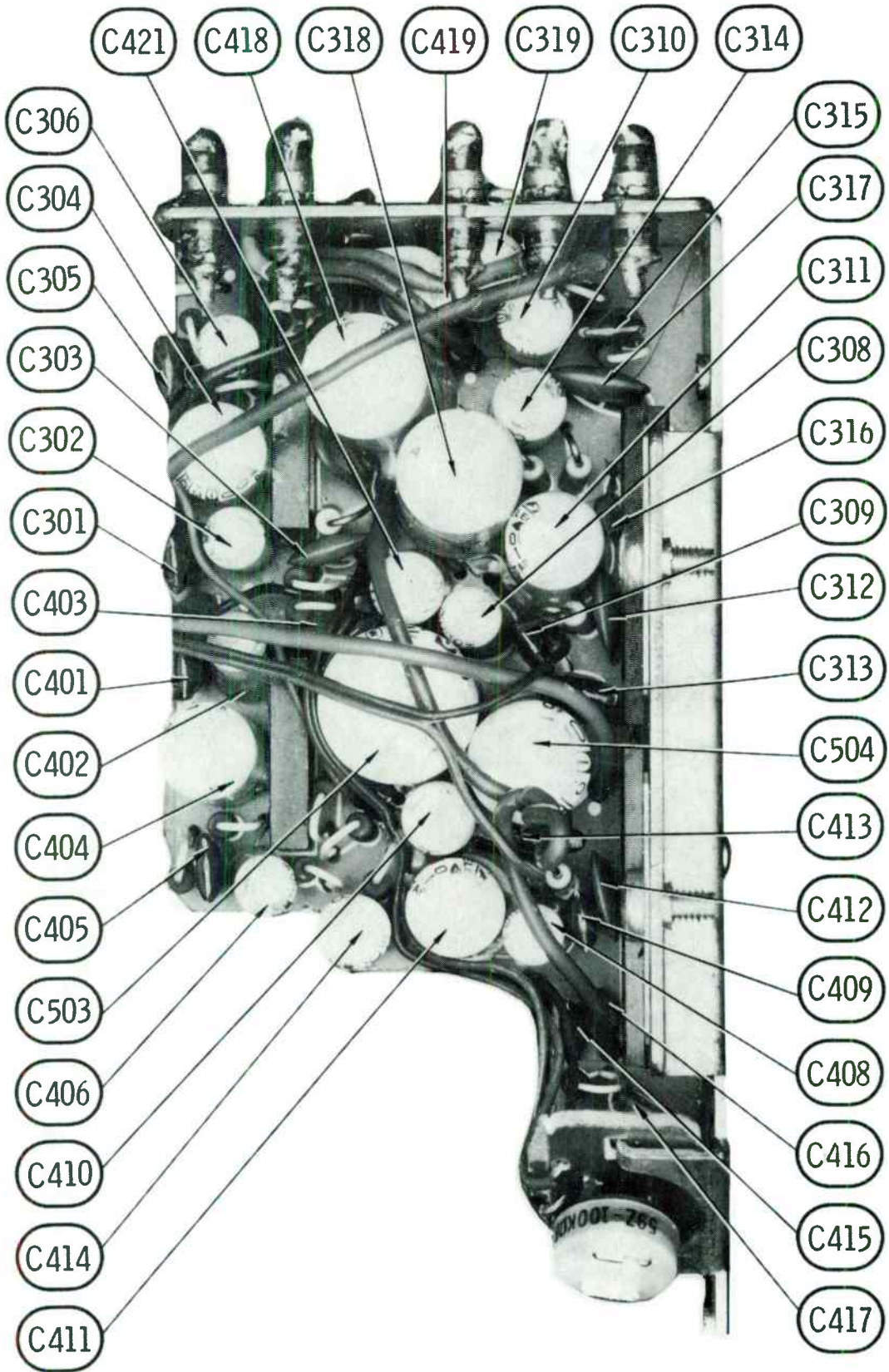


CLARION MODEL PE-618A

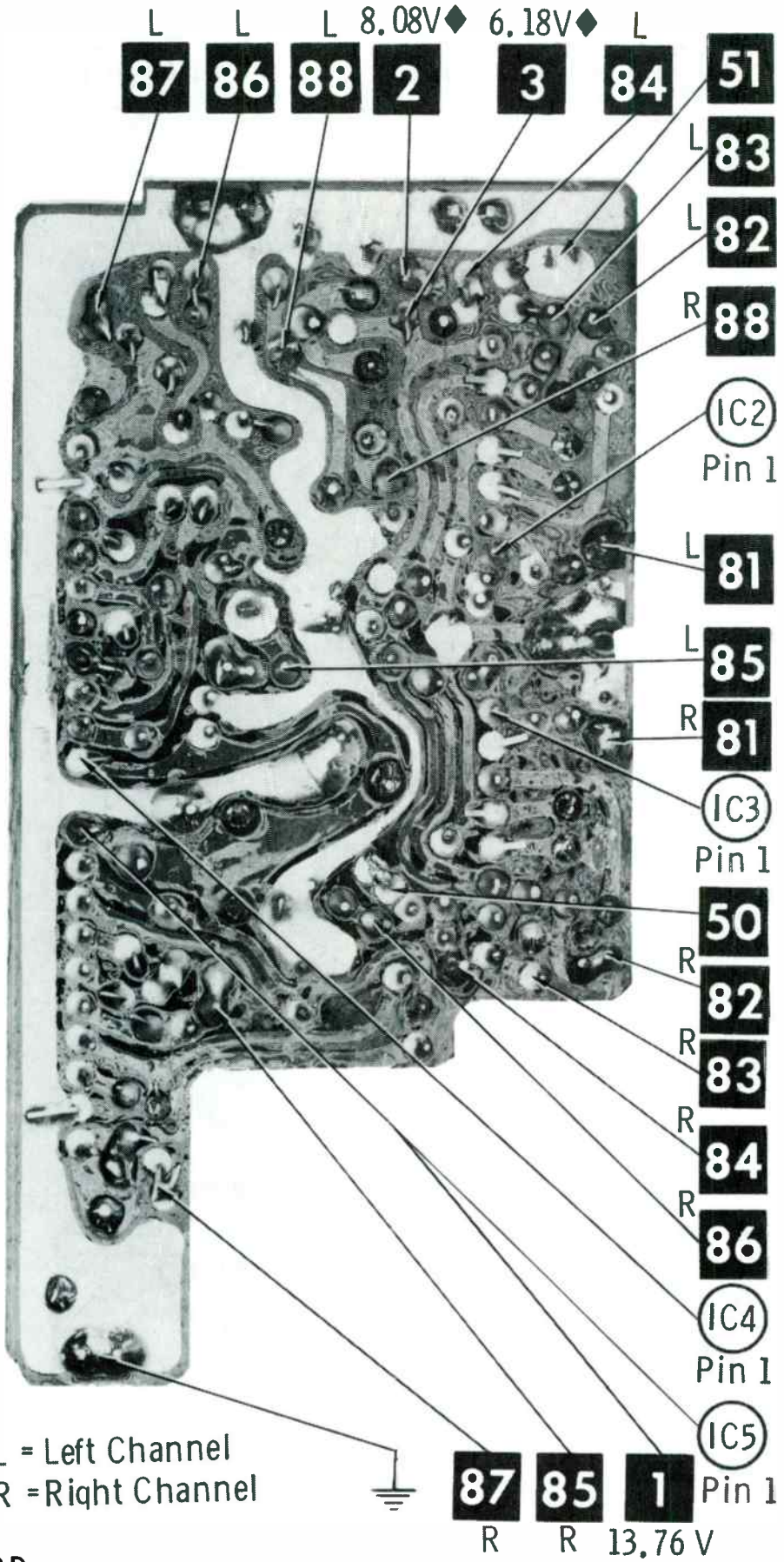
FM RF BOARD



AUDIO BOARD



AUDIO BOARD



L = Left Channel
R = Right Channel



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. | IR WORKMAN PART No. | MALLORY PART No. | MOTOROLA PART No. | RAYTHEON PART No. | RCA PART No. | SPRAGUE PART No. | SYLVANIA PART No. |
| D1 | 1S2790HT | 001-0130-00 | GE-90 | D201 | | HEPR2503 | RE 195 | SK3126 | RT-262 | |
| D2 | 1N60 | 001-0020-00 | 1N60 | 1N60 | | HEPR9135 | RE 47 | SK3088 | RT-263 | ECG109 |
| D3 | 1N60 | 001-0020-00 | 1N60 | 1N60 | PTC206 | HEPR9135 | RE 47 | SK3088 | RT-263 | ECG109 |
| D4 | 1N34A | 001-0010-00 | 1N34AS | 1N34A | PTC207 | HEPR9134A | RE 47 | SK3087 | RT-200 | ECG109 |
| D5 | 1N34A | 001-0010-00 | 1N34AS | 1N34A | PTC207 | HEPR9134A | RE 47 | SK3087 | RT-200 | ECG109 |
| D6 | 1N60 | 001-0020-00 | 1N60(7) | 1N60 (7) | PTC206M(6) | HEPR9135(7) | RE 86(6) | SK3088(7) | RT-263(7) | ECG110(6) |
| D7 | 1N60 | 001-0020-00 | | | | | | | | |
| D8 | 1S2076 | 001-0095-00 | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| D9 | HZ9B | 001-0101-00 | GEZD-9.1 | Z1209 | ZB9.1A | HEPZ0412 | RE 114 | SK3060 | RT-240 | ECG139 |
| D10 | 100A | 001-0077-00 | GE-504A | 5A4D | PTC201 | HEPR0052 | RE 49 | SK3030 | RT-213 | ECG116 |
| D11 | 1S2076 | 001-0095-00 | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| D15 | 1N34A | 001-0010-00 | 1N34AS | 1N34A | PTC207 | HEPR9134A | RE 47 | SK3087 | RT-200 | ECG109 |
| D16 | 1N34A | 001-0010-00 | 1N34AS | 1N34A | PTC207 | HEPR9134A | RE 47 | SK3087 | RT-200 | ECG109 |
| IC1 | UPC554C | 051-0039-00 | GEIC-128 | | | | RE 330-IC | | TVCM-7 | ECG1142 |
| IC2 | TA7120P | 051-0020-02 | GEIC-103 | | | | RE 340-IC | | | ECG1087 |
| IC3 | TA7120P | 051-0020-02 | GEIC-103 | | | | RE 340-IC | | | ECG1087 |
| IC4 | TA7205P | 051-0055-02 | GEIC-179 | WEP949 | PTC780 | | | | TVCM-81 | ECG1155 |
| IC5 | TA7205P | 051-0055-02 | GEIC-179 | WEP949 | PTC780 | | | | TVCM-81 | ECG1155 |
| Q1 | 2SC1342B | 102-1342-02 | GE-61 * | TR-24 * | PTC136 * | HEPS0014 * | RE 9 * | SK3018 * | RT-108A * | ECG229 * |
| Q2 | 2SC461B | 102-0461-02 | GE-61 * | (1R)2SC403A | PTC121 * | HEPS0014 * | RE 10 * | SK3018 * | RT-107A * | ECG108 * |
| Q3 | 2SC1675B | 102-1675-02 | GE-213 | TR-33 | PTC139 * | HEPS0025 * | RE 13 * | SK3124 * | RT-308 | ECG229 * |
| Q4 | 2SC460(1) | 102-1675-02 | GE-61 * | (1R)2SC460B | PTC136 * | HEPS0014 * | RE 9 * | SK3018 * | RT-308 | ECG107 * |
| Q5 | 2SC1675B | 102-1675-02 | GE-213 | TR-33 | PTC139 * | HEPS0025 * | RE 13 * | SK3124 * | RT-308 | ECG229 * |
| Q6 | 2SC460(1) | 102-1675-02 | GE-61 * | (1R)2SC460B | PTC136 * | HEPS0014 * | RE 9 * | SK3018 * | RT-308 | ECG107 * |
| Q7 | 2SC1675B | 102-1675-02 | GE-213 | TR-33 | PTC139 * | HEPS0025 * | RE 13 * | SK3124 * | RT-308 | ECG229 * |
| Q8 | 2SC460(1) | 102-1675-02 | GE-61 * | (1R)2SC460B | PTC136 * | HEPS0014 * | RE 9 * | SK3018 * | RT-308 | ECG107 * |
| Q9 | 2SC454B | 102-0454-02 | GE-210 * | (1R)2SC454B | PTC115 * | HEPS0015 * | RE 10 * | SK3018 * | RT-187 | ECG108 * |
| Q10 | 2SC735Y | 102-0735-02 | GE-210 * | TR-21 * | PTC123 * | HEPS0014 * | RE 13 * | SK3122 | RT-308 * | ECG289 |
| | 2SC735B | (1) | GE-210 * | TR-21 * | PTC123 * | HEPS0014 * | RE 13 * | SK3122 | RT-308 * | ECG289 |

* Lead configuration may vary from original.

(1) Used in some versions.

(6) Matched pair.

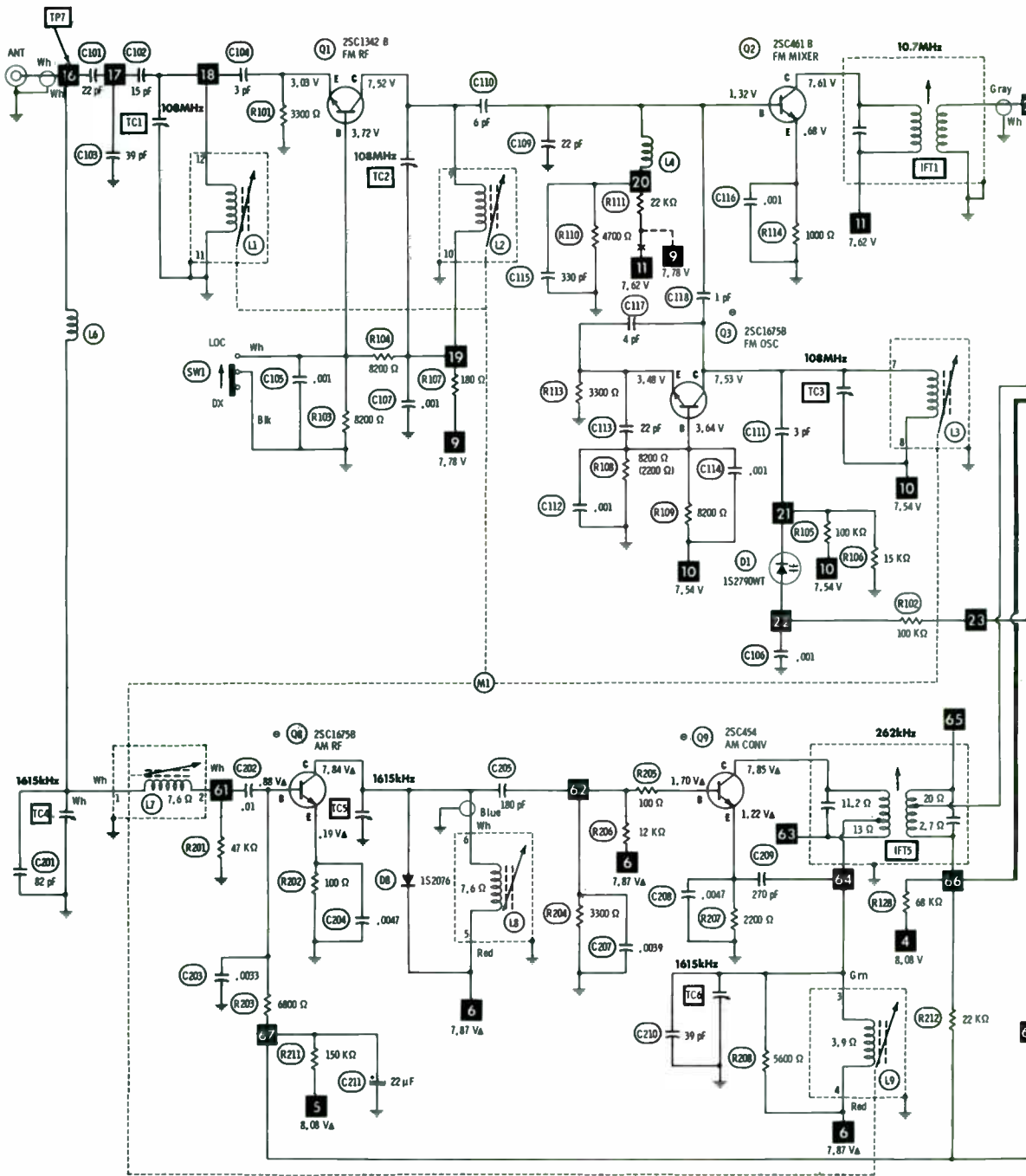
(7) Two required - select matched pair.

CLARION MODEL PE-618A

ELECTROLYTIC CAPACITORS

| ITEM No. | RATING | REPLACEMENT DATA | | | | |
|----------|---------|------------------|---------------------------|------------------|------------------|--------------|
| | | MFR. PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| | | | | | Q-LINE | GENERAL LINE |
| C126 | 22 10V | 180-2264-22 | PC25-25 | VTT22B16 | QV1-55 | EV-1224 |
| C133 | 10 10V | 180-1064-22 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C139 | 1 50V | 180-1054-62 | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C141 | 10 10V | 180-1064-22 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C142 | 1 50V | 180-1054-22 | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C150 | 4.7 16V | 180-4754-32 | PC5-50 | VTT4R7B50 | QV1-27 | EV-1319 |
| C151 | 4.7 16V | 180-4754-32 | PC5-50 | VTT4R7B50 | QV1-27 | EV-1319 |
| C153 | .22 50V | | | TOC224K050EL | QV1-10 | S050-R229 |
| C211 | 22 10V | 180-2264-22 | PC25-25 | VTT22B16 | QV1-55 | EV-1224 |
| C302 | 4.7 16V | 180-4754-32 | PC25-25 | VTT22B16 | QV1-55 | EV-1224 |
| C304 | 100 10V | 180-1074-22 | PC100-10 | VTT100E10 | QV1-93 | EV-1130 |
| C306 | 4.7 16V | 180-4754-32 | PC5-50 | VTT4R7B50 | QV1-27 | EV-1319 |
| C308 | 2.2 50V | 180-2254-62 | PC2-100 | VTT2R2A50 | QV1-19 | EV-1517 |
| C310 | 47 10V | 180-4764-22 | PC50-16 | VTT47D16 | QV1-73 | EV-1226 |
| C311 | 100 10V | 180-1074-22 | PC100-10 | VTT100E10 | QV1-93 | EV-1130 |
| C314 | 47 10V | 180-4764-22 | PC50-16 | VTT47D16 | QV1-73 | EV-1226 |
| C318 | 470 10V | 180-4774-22 | PC500-16 | VTT470K16 | QV1-149 | EV-1150 |
| C319 | 1 50V | 180-1054-62 | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C402 | 4.7 16V | 180-4754-32 | PC5-50 | VTT4R7B50 | QV1-27 | EV-1319 |
| C404 | 100 10V | 180-1074-22 | PC100-10 | VTT100E10 | QV1-93 | EV-1130 |
| C406 | 4.7 16V | 180-4754-32 | PC5-50 | VTT4R7B50 | QV1-27 | EV-1319 |
| C408 | 2.2 50V | 180-2254-62 | PC2-100 | VTT2R2A50 | QV1-19 | EV-1517 |
| C410 | 47 10V | 180-4764-22 | PC50-16 | VTT47D16 | QV1-73 | EV-1226 |
| C411 | 100 10V | 180-1074-22 | PC100-10 | VTT100E10 | QV1-93 | EV-1130 |
| C414 | 47 10V | 180-4764-22 | PC50-16 | VTT47D16 | QV1-73 | EV-1226 |
| C418 | 470 10V | 180-4774-22 | PC500-16 | VTT470K16 | QV1-149 | EV-1150 |
| C419 | 1 50V | 180-1054-62 | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C421 | 47 10V | 180-4764-22 | PC50-16 | VTT47D16 | QV1-73 | EV-1226 |
| C501 | 33 10V | 180-3364-22 | WBR35-50 | TT10X30A | QE1-305 | TVA-1129.92 |
| C502 | 33 10V | 180-3364-22 | WBR35-50 | TT10X30A | QE1-305 | TVA-1129.92 |
| C503 | 470 16V | 180-4774-32 | PC500-16 | VTT470K16 | QV1-151 | EV-1250 |
| C504 | 220 16V | 180-2274-32 | PC250-25 | VTT220H16 | QV1-117 | EV-1240 |
| C601 | 470 16V | 180-4774-32 | PC500-16 | VTT470K16 | QV1-151 | EV-1250 |

NOTE: DEMAGNETIZE HEADS AFTER SERVICING



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

Measurements with switching as shown unless noted:

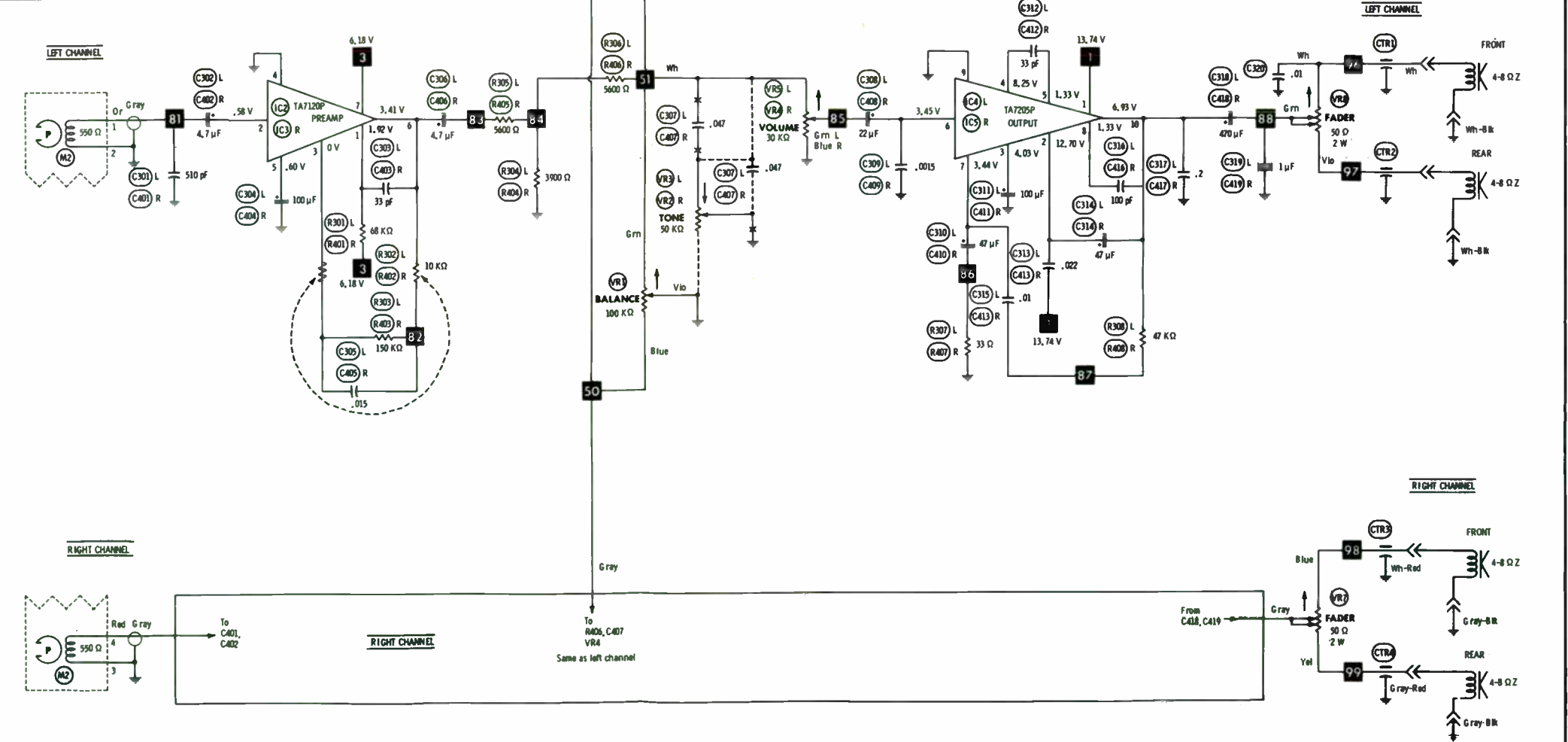
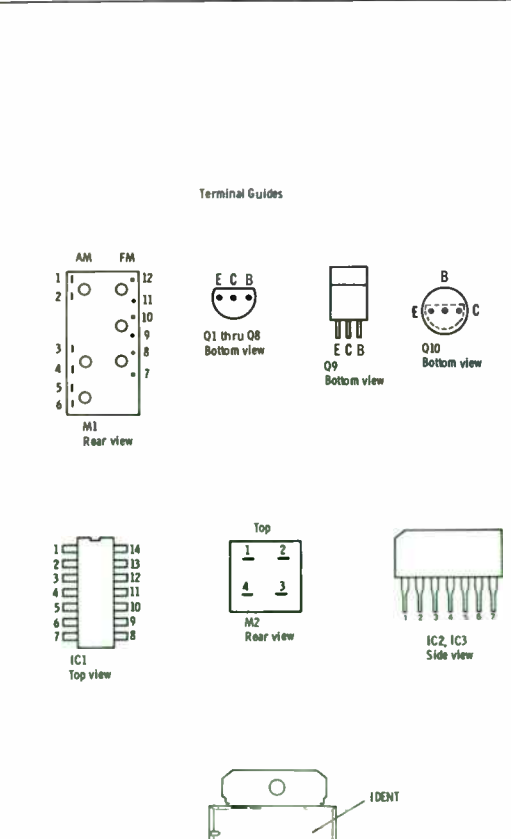
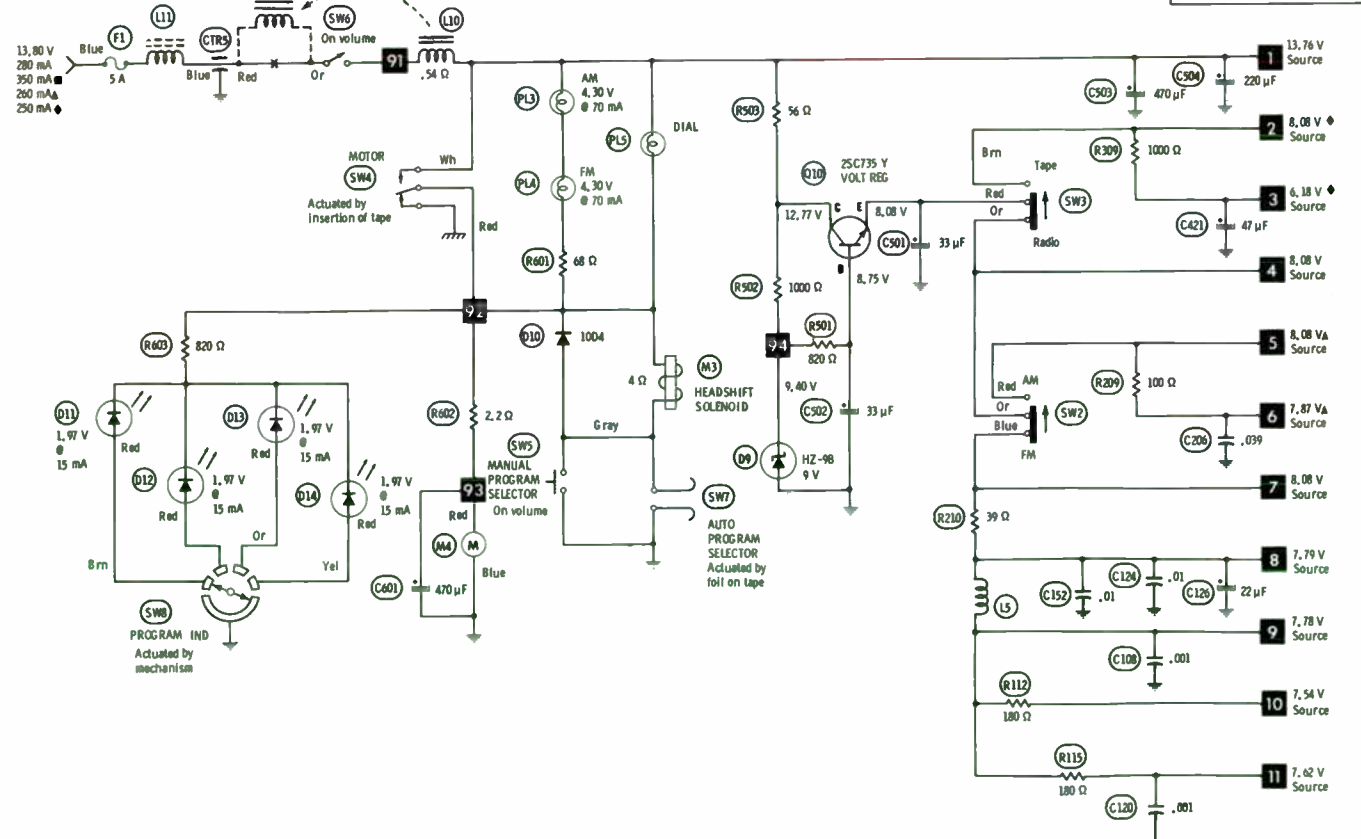
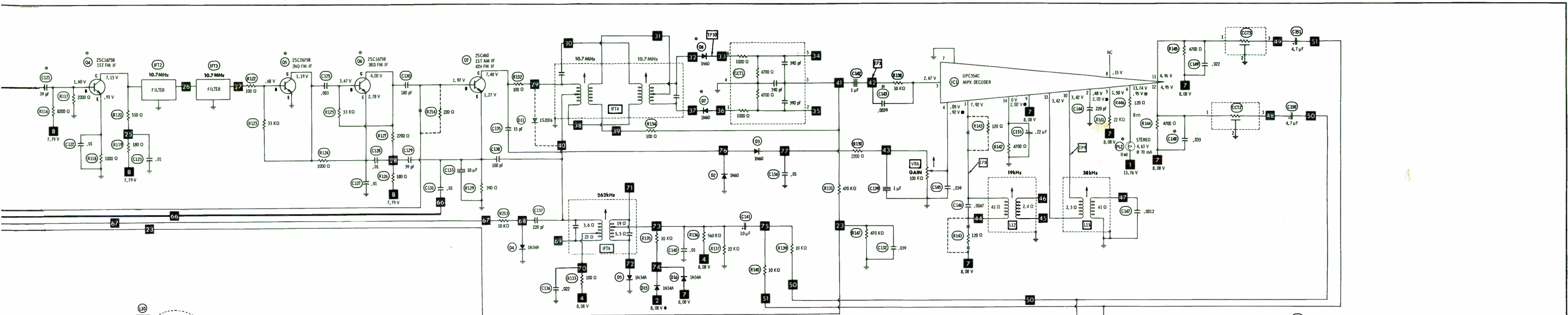
■ FM Stereo signal ▲ AM

◆ Tape play

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

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITRACE**

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CLARION MODEL PE-618A



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.



PANASONIC MODEL CR-B4737EU

MODEL CR-B4737EU

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

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Printed in U. S. of America

7CS527

CB 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.
 Suggested Alignment Tools: GC Electronics:
 IFT801 thru IFT804, L903, L905, T801, T802, T902,
 T903, T904, T906, T907, T908.....5009
 C974.....5000

SYNTHESIZER ALIGNMENT

| TEST EQUIPMENT | TRANSCEIVER | ADJUST | REMARKS |
|--------------------------------------|-------------------------------|------------|---|
| Input of frequency counter to TP11. | Ch. 19 Delta Tune - Center | | Check for 11.050MHz. |
| Input of DC meter to TP1. (CB Board) | Ch. 18 | T906 | Adjust for 3.20 volts |
| Input of RF VTVM to TP2. (CB Board) | Ch. 19 | T907, T908 | Adjust for maximum. |
| Input of frequency counter to TP16. | Ch. 1 | C974 | Adjust for 16.370MHz. Repeat for all channels. (Channel Frequency - 10.595MHz = frequency on counter) |
| Input of frequency counter to TP16. | Ch. 19, Xmit | | Check for 10.595MHz. |

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.

| TEST EQUIPMENT | TRANSCEIVER | ADJUST | REMARKS |
|---|-------------------------------|-------------------|---|
| Output of signal generator thru .01uF to TP13. 455kHz, 1000Hz @ 30% modulation. | Ch. 19 Delta Tune - Center | IFT804, IFT803 | Adjust for maximum output. |
| Output of signal generator thru .01uF to TP14. 10.595MHz, 1000Hz @ 30% modulation. | Ch. 19 | IFT802 IFT801 | Adjust for maximum output. |
| Output of signal generator thru .01uF to antenna jack. 27.180MHz, 1000Hz @ 30% modulation. | Ch. 19 | T802, T801 | Adjust for maximum output. Repeat above steps, if necessary. |

TRANSMITTER ALIGNMENT

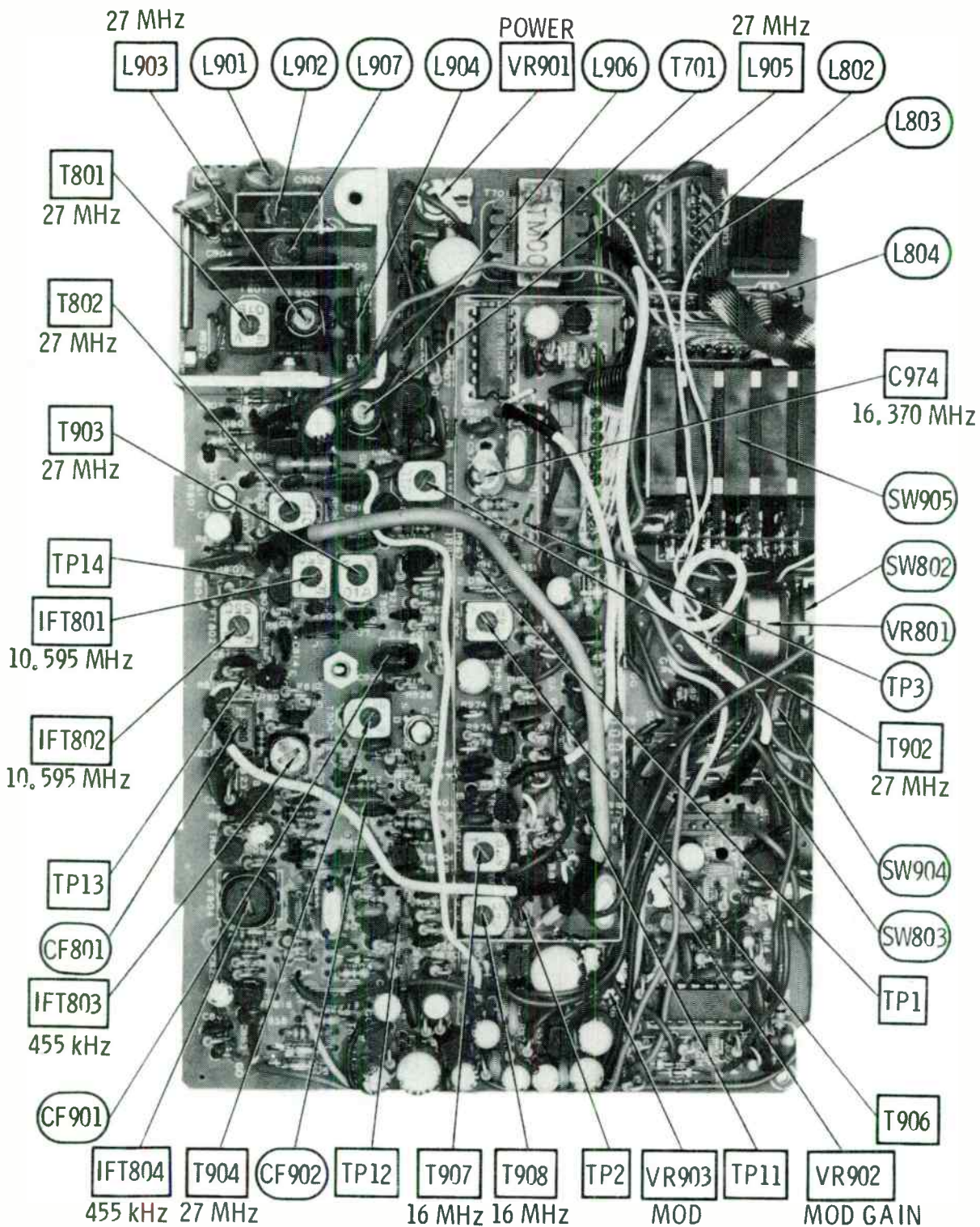
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
 NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.
 See page 4 for channel frequencies.

| TEST EQUIPMENT | TRANSCEIVER | ADJUST | REMARKS |
|----------------|-------------|------------------------------------|---------------------|
| | Ch. 19 | T904, T903, T902, L905, L903 | Adjust for maximum. |

TRANSMITTER ADJUSTMENTS

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 adjustments of transmitter.
 See page 4 for channel frequencies.

| TEST EQUIPMENT | TRANSCEIVER | ADJUST | REMARKS |
|---|-------------|--------|--------------------------------|
| | Ch. 19 | VR901 | Adjust for 3.8 watts. |
| Modulation meter to antenna jack. | Ch. 19 | VR903 | Adjust for maximum modulation. |
| Inject a 70mV 1000Hz signal at MIC input. | | VR902 | Adjust for 90% modulation. |



CB MAIN BOARD

AM-FM 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:

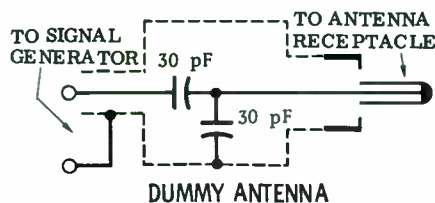
C57,C65,C75,C101,C107,C115.....5000
 L107,IFT101 thru IFT104,IFT51,
 IFT151,IFT152.....5009

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 TP10. | 450kHz 400-Hz mod. | High freq end stop | IFT104,IFT103, IFT102,IFT101 | Adjust for maximum. |
| Thru dummy antenna to antenna input. | 1615kHz | " | C115,C107, C101 | " |
| Thru dummy antenna to antenna input. | 600kHz | 600kHz | L107 | 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 C101 for maximum output. Antenna adjustment is located in front panel right hand side of dial.



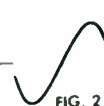
FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to TP10.

| GENERATOR FREQUENCY | RADIO DIAL SETTING | INDICATOR | ADJUST | REMARKS |
|------------------------|---------------------------|---|---------------------|---|
| 10.7MHz Unmodulated | Point of non-interference | DC probe of VTVM to TP3. (Radio Board) | (1)IFT51, IFT151 | Adjust for maximum.  |
| " | " | DC probe of VTVM to TP3. (Radio Board) | IFT152 VR153 | 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 TP10.
 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 TP3. (Radio Board) | (1)IFT51, IFT151 | Disconnect stabilizing capacitor C160 Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect C160.  |
| " | " | Vert input of scope to TP3. (Radio Board) | IFT152, VR153 | Adjust IFT152 for maximum amplitude and straightness of line, similar to Fig. 2. Readjust IFT151 for maximum amplitude and straightness of line. |

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

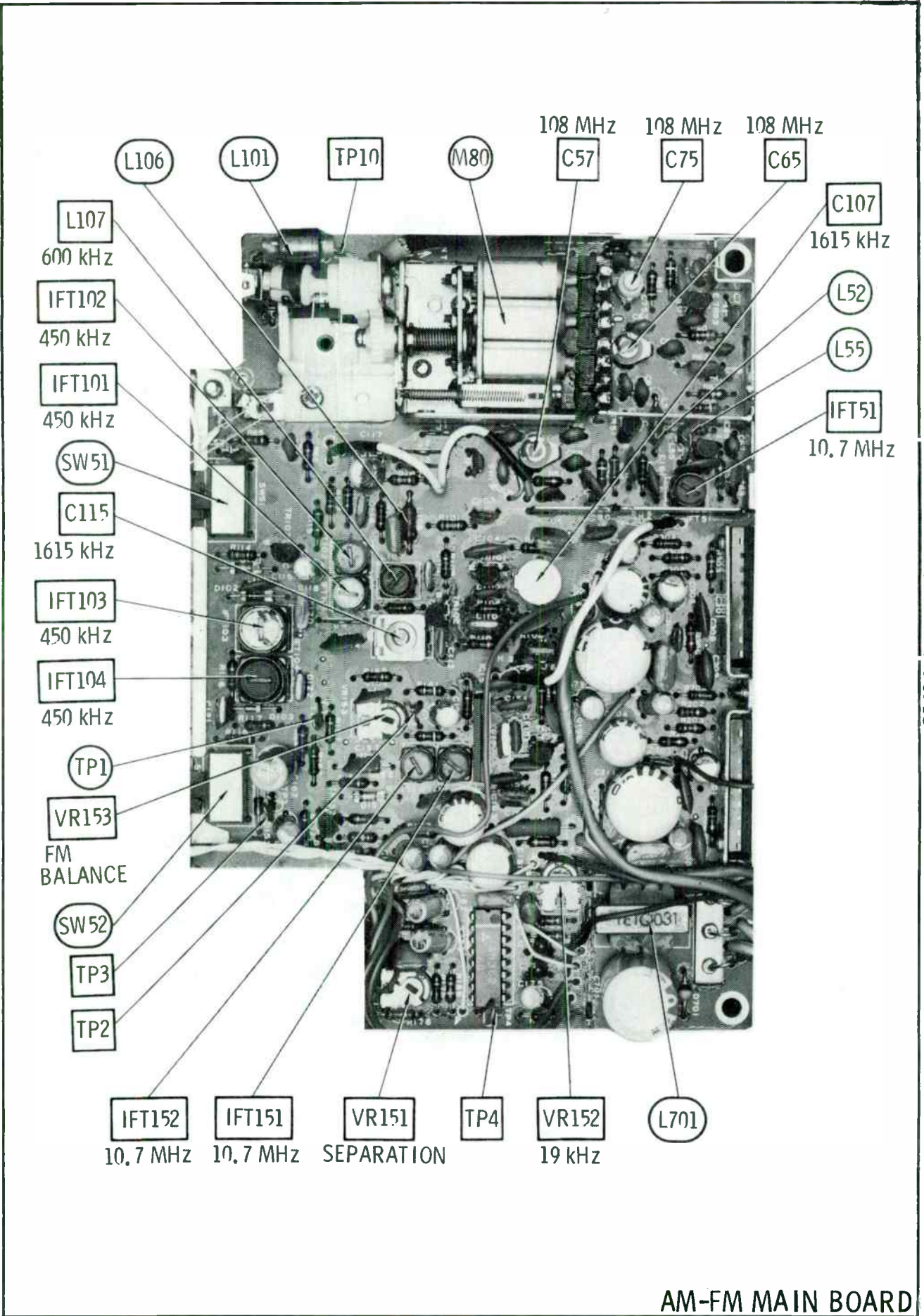
FM RF ALIGNMENT—SELECTOR IN FM POSITION

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

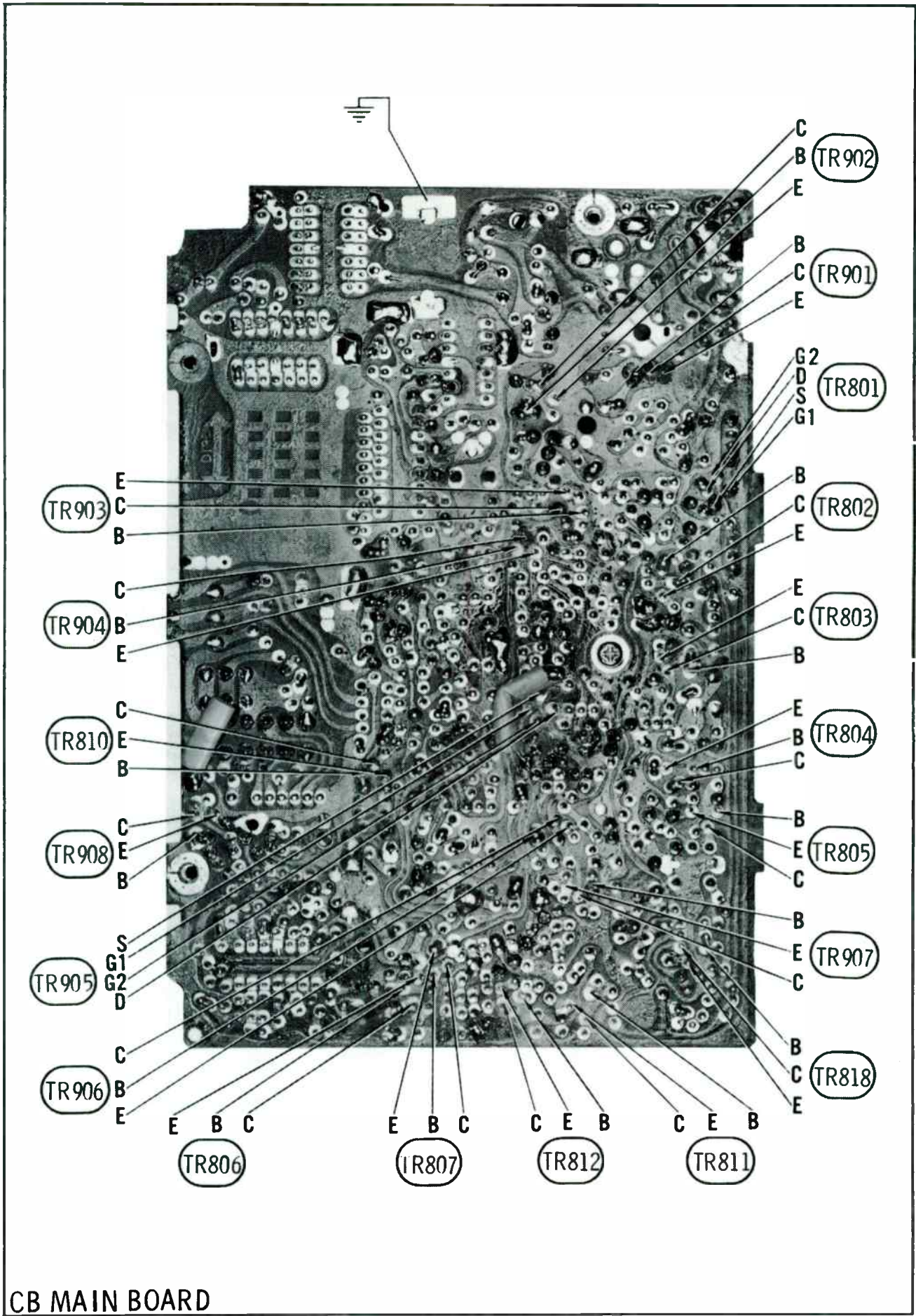
| GENERATOR FREQUENCY | RADIO DIAL SETTING | INDICATOR | ADJUST | REMARKS |
|-----------------------|--------------------|---|---------------------|---------------------|
| 108MHz Unmodulated | 108MHz | DC probe of VTVM to TP3. (Radio Board) | C75, C65, C57 | Adjust for maximum. |

FM STEREO ALIGNMENT

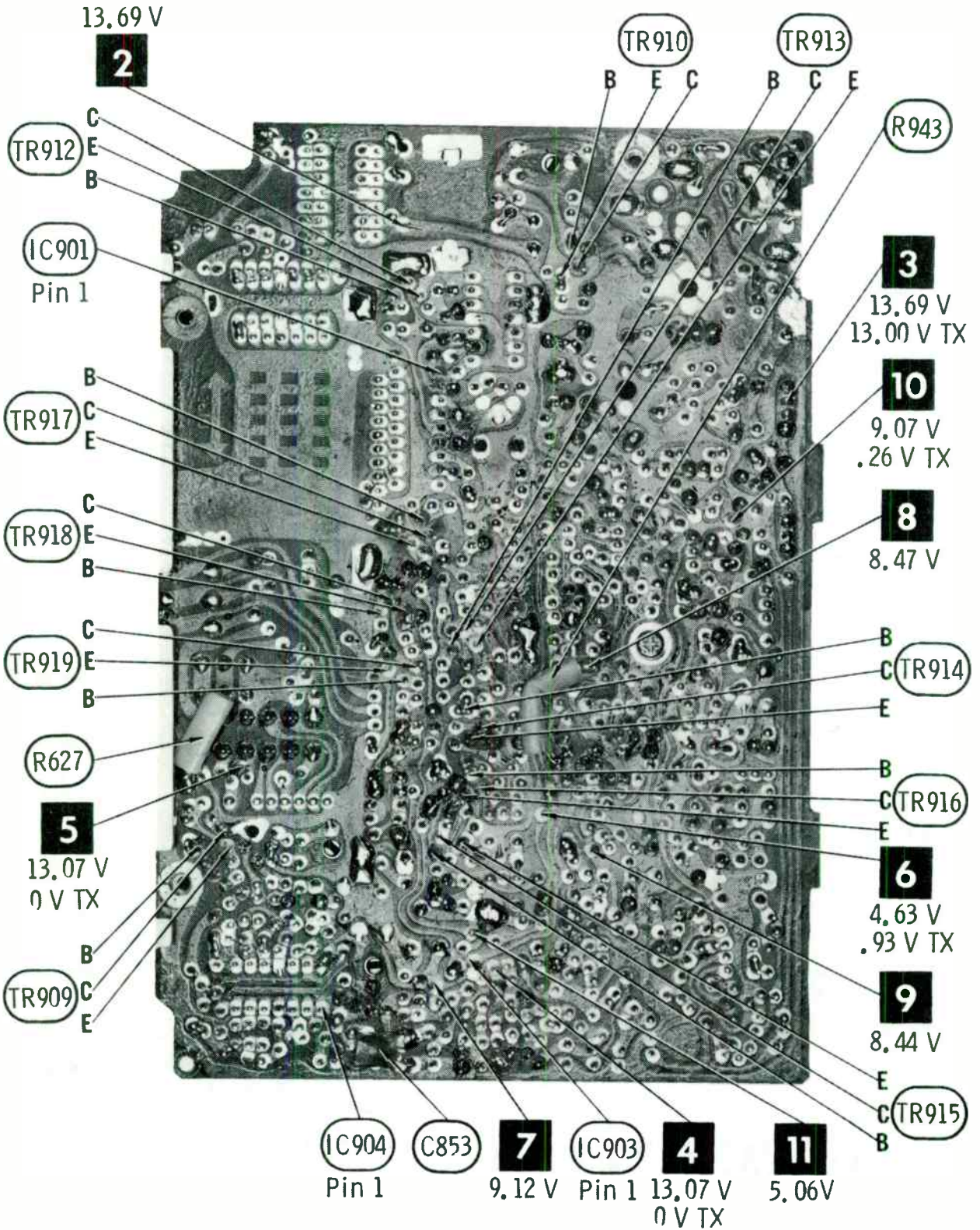
Connect Frequency Counter to TP4, ground TP3 on radio board. Adjust VR152 for 19kHz \pm 20Hz. Tune to stereo station adjust VR151 for best separation.



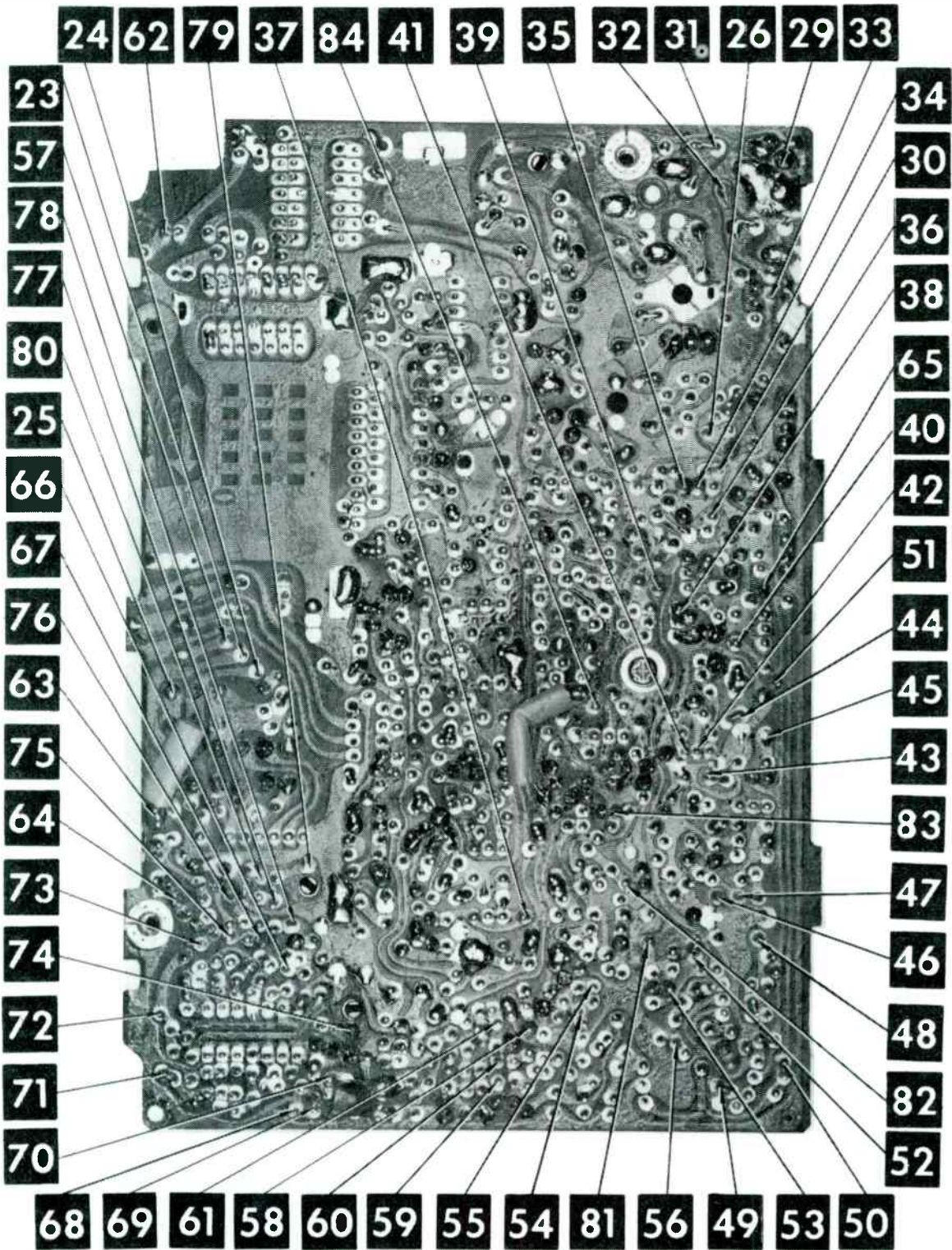
AM-FM MAIN BOARD



CB MAIN BOARD

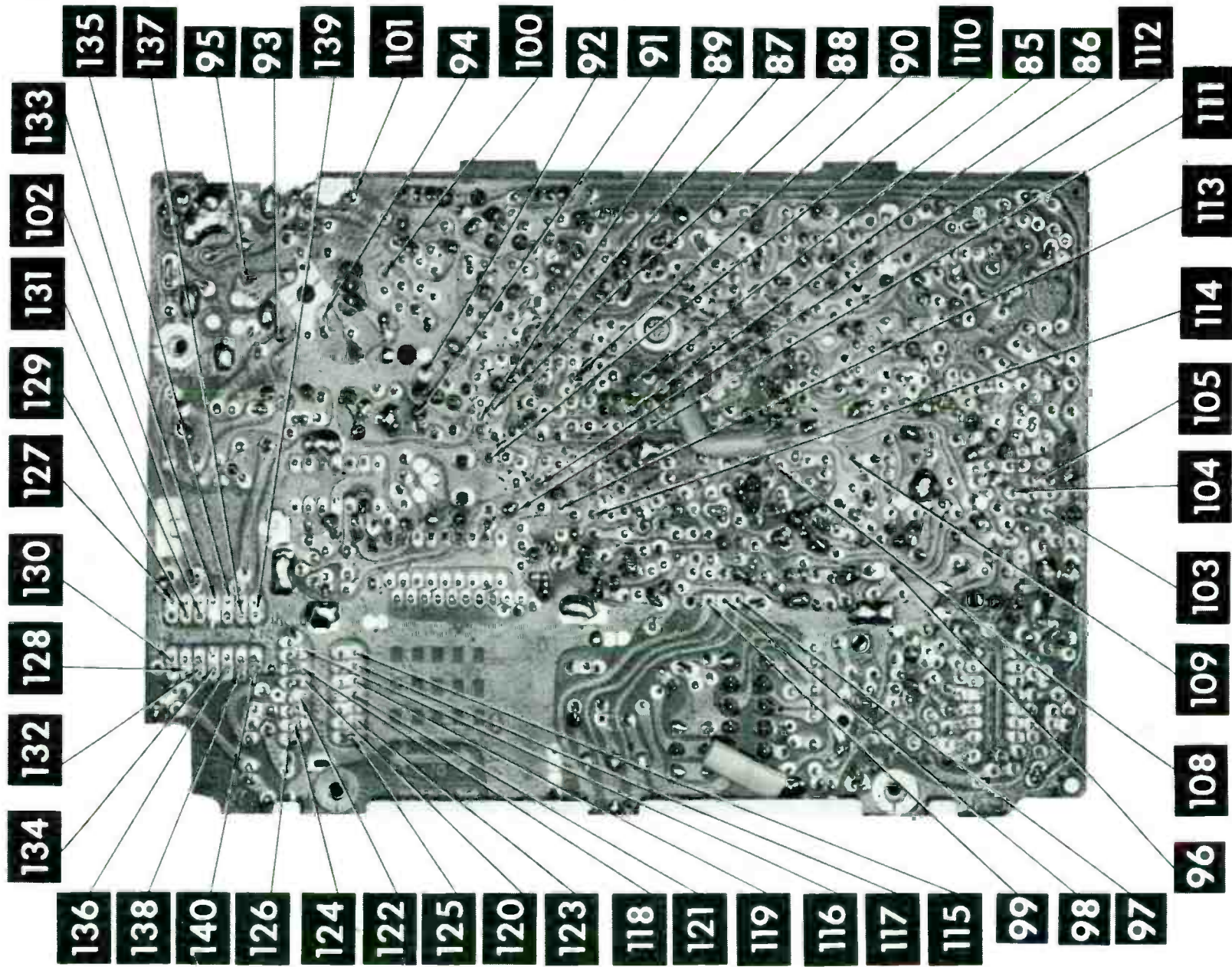


CB MAIN BOARD

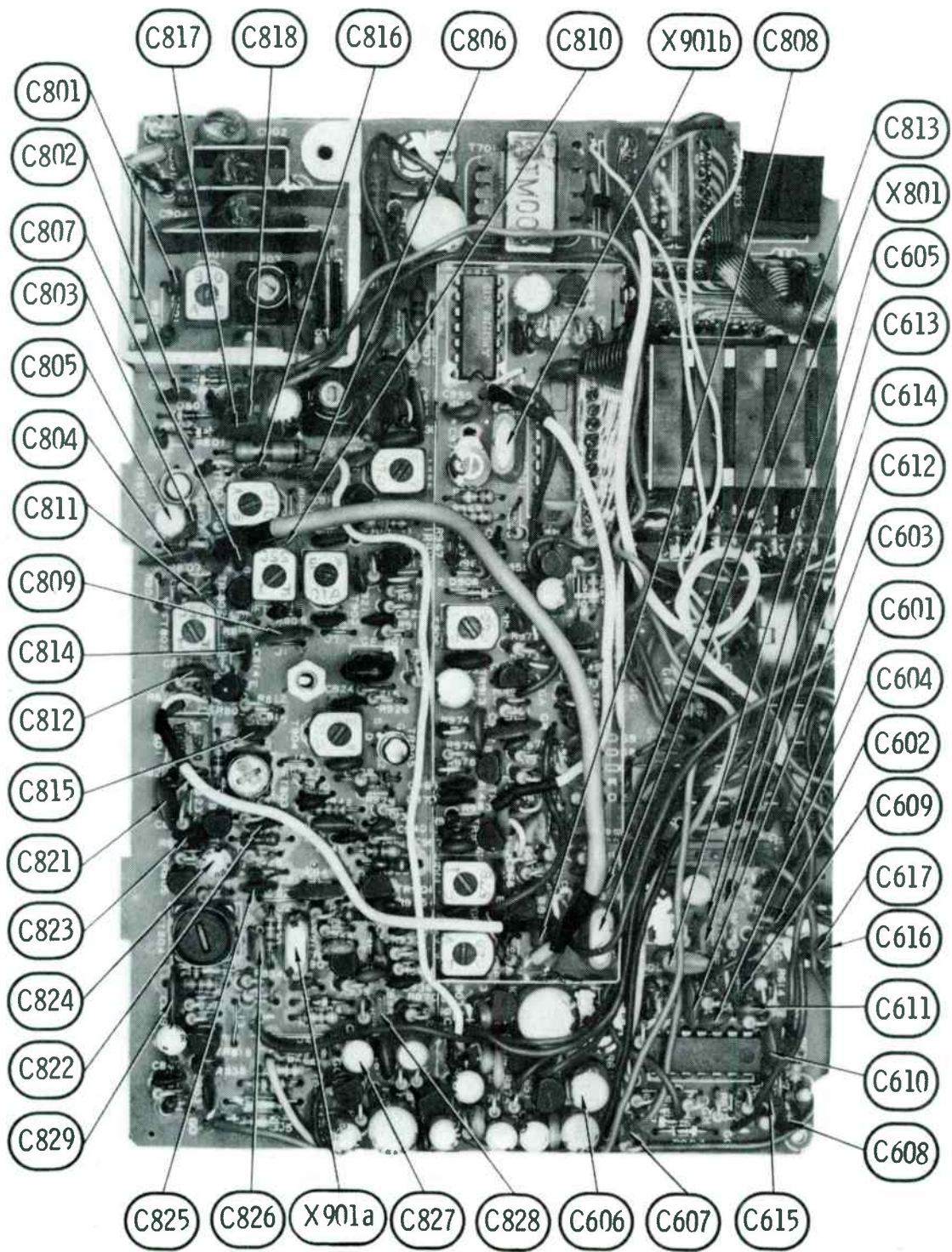


CB MAIN BOARD

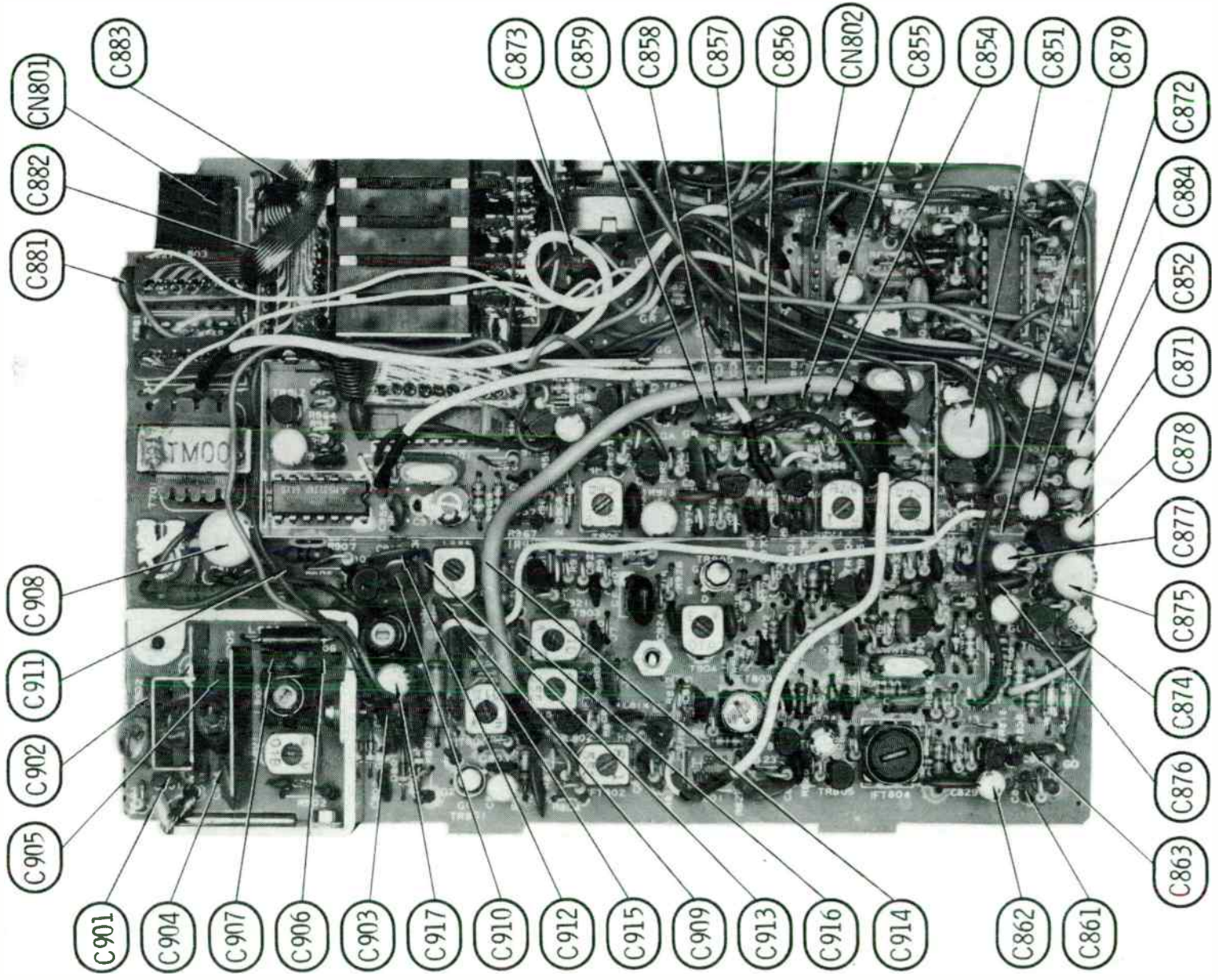
PANASONIC MODEL CR-B4737EU



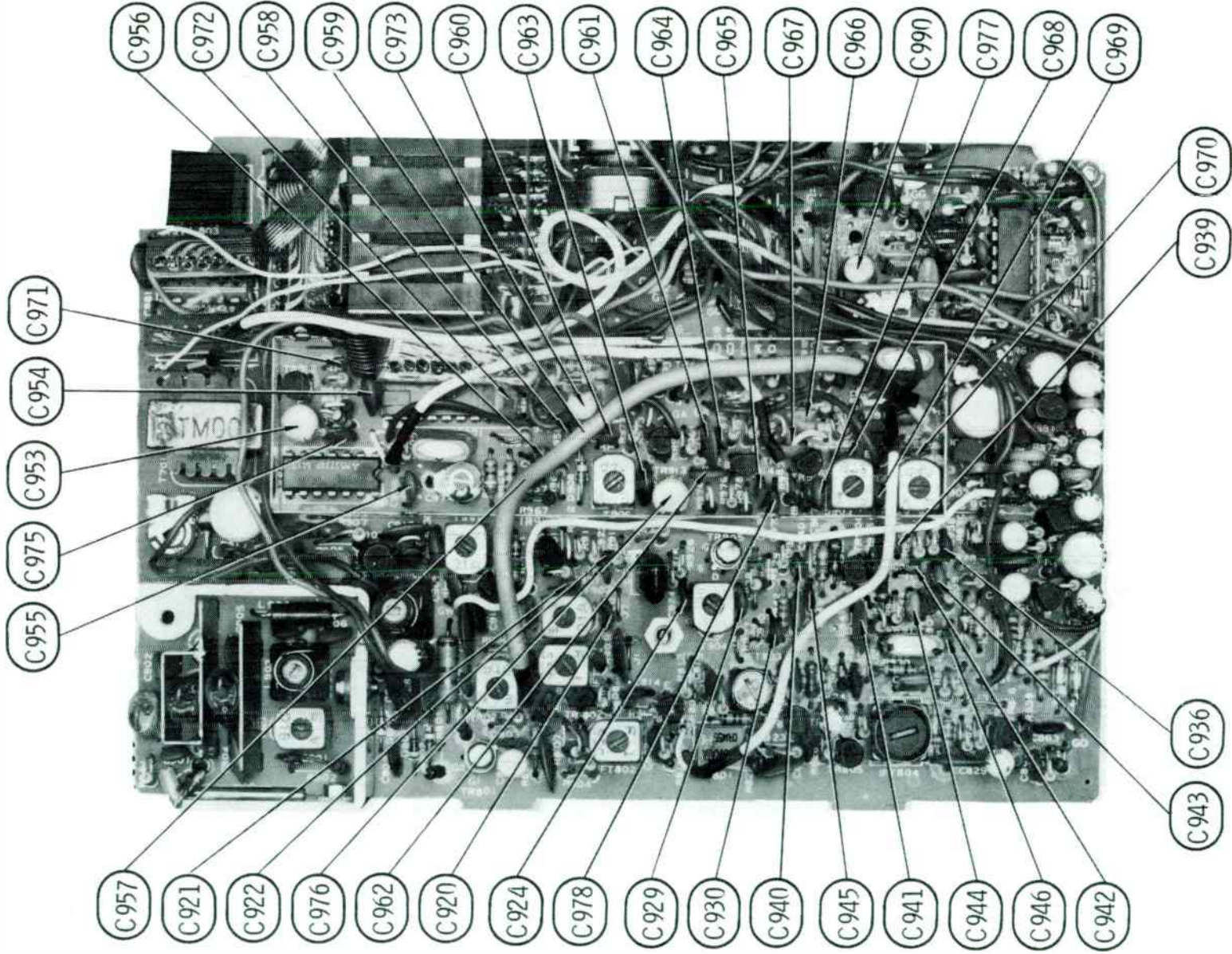
CB MAIN BOARD



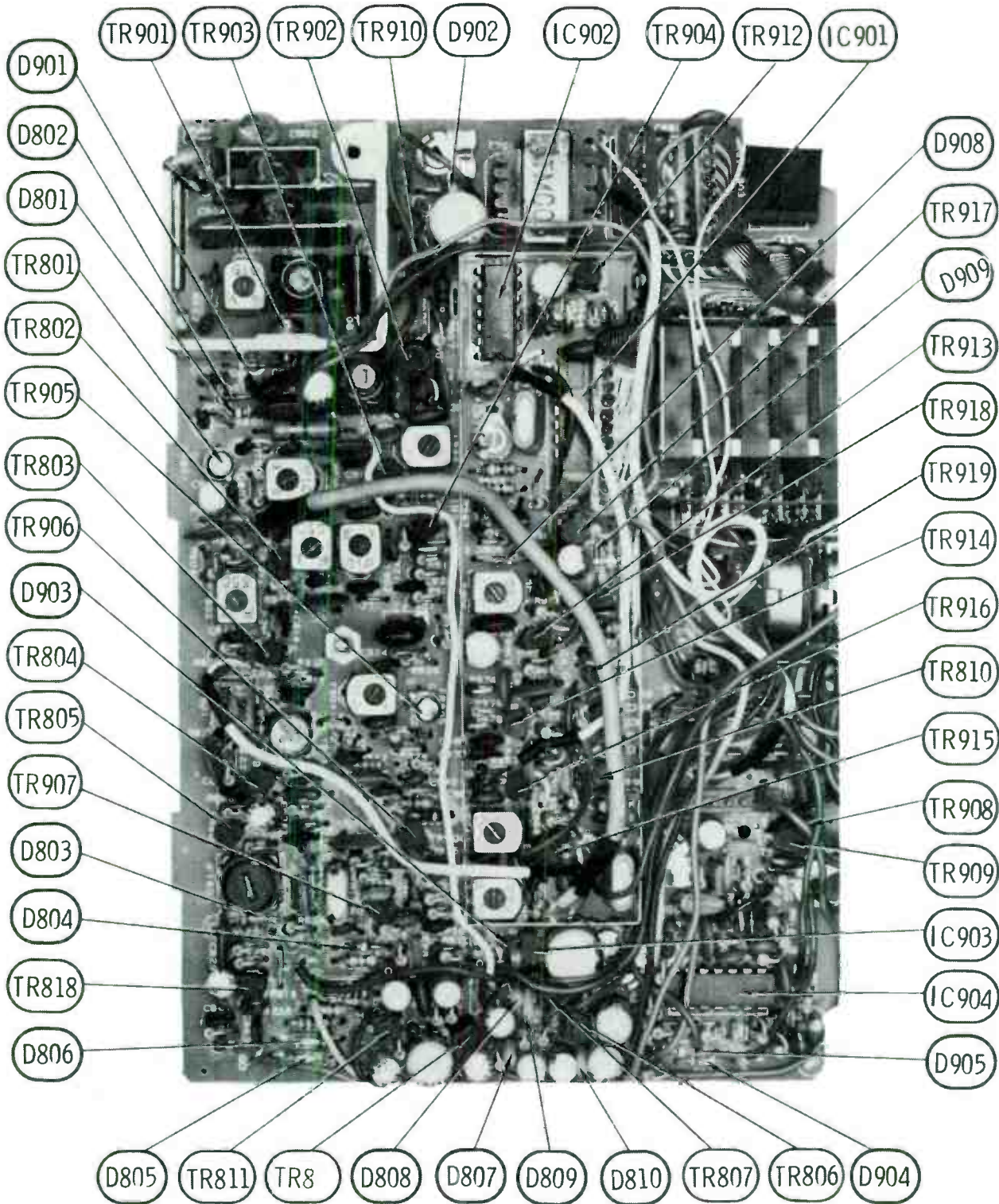
CB MAIN BOARD



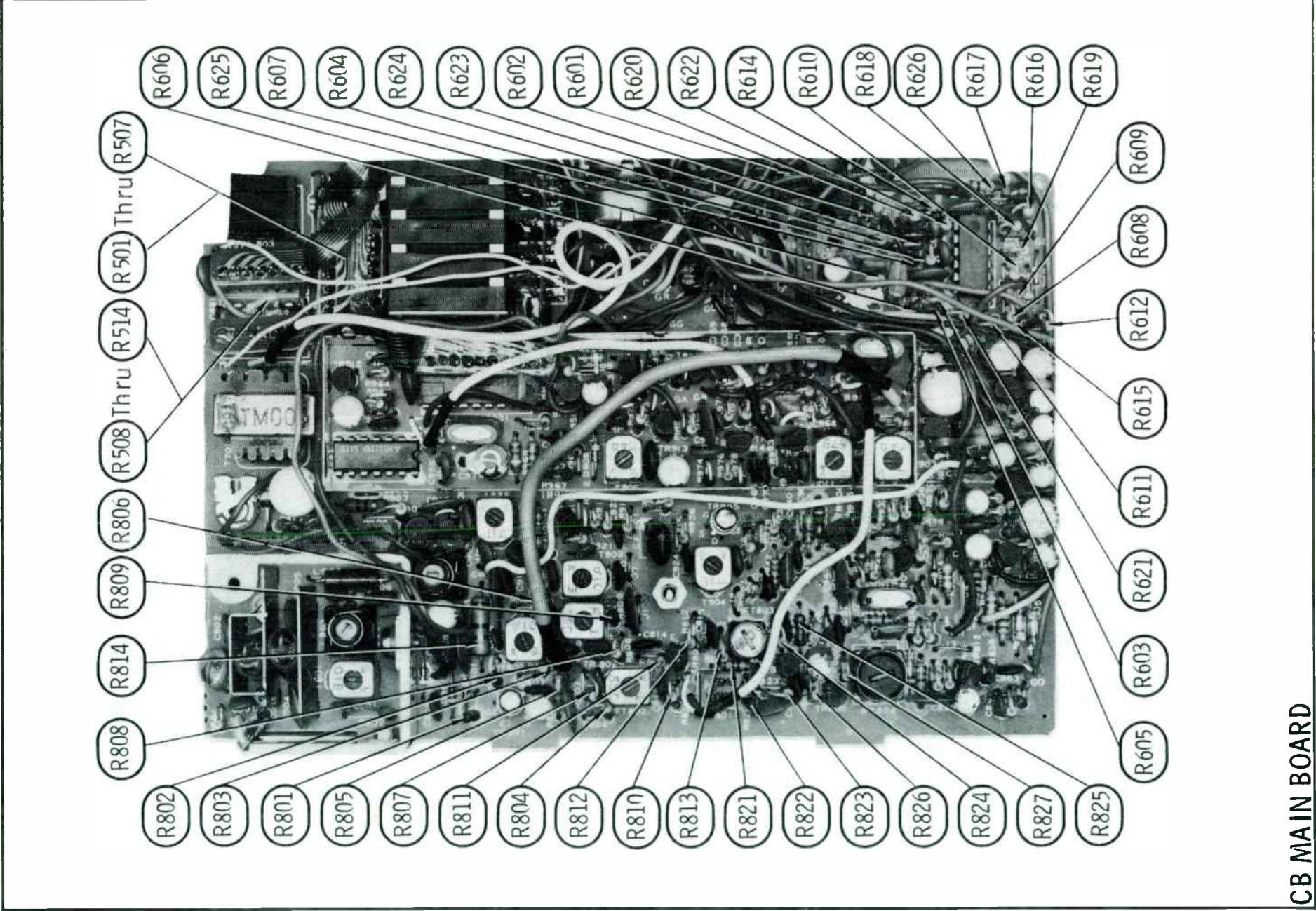
CB MAIN BOARD



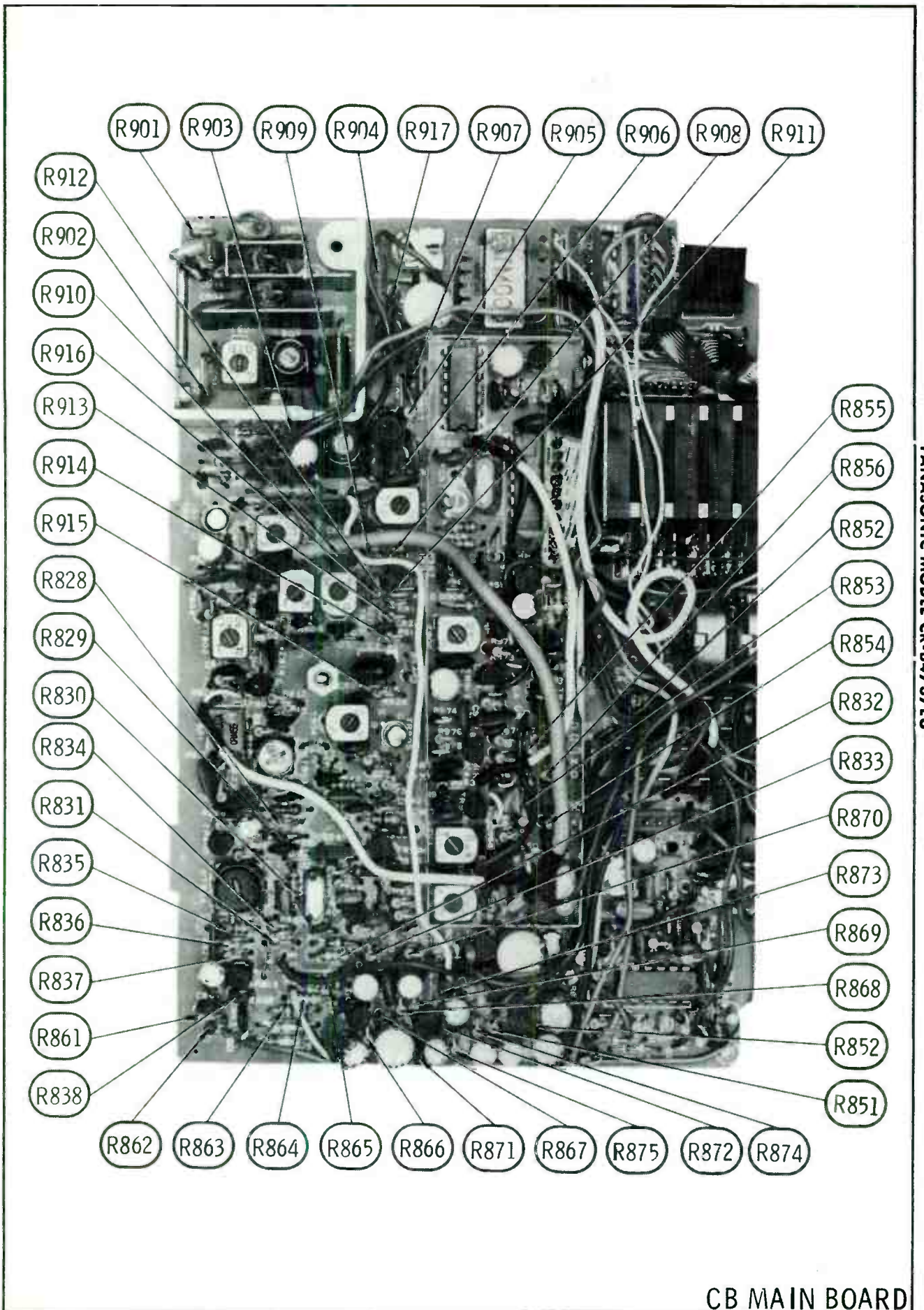
CB MAIN BOARD



CB MAIN BOARD

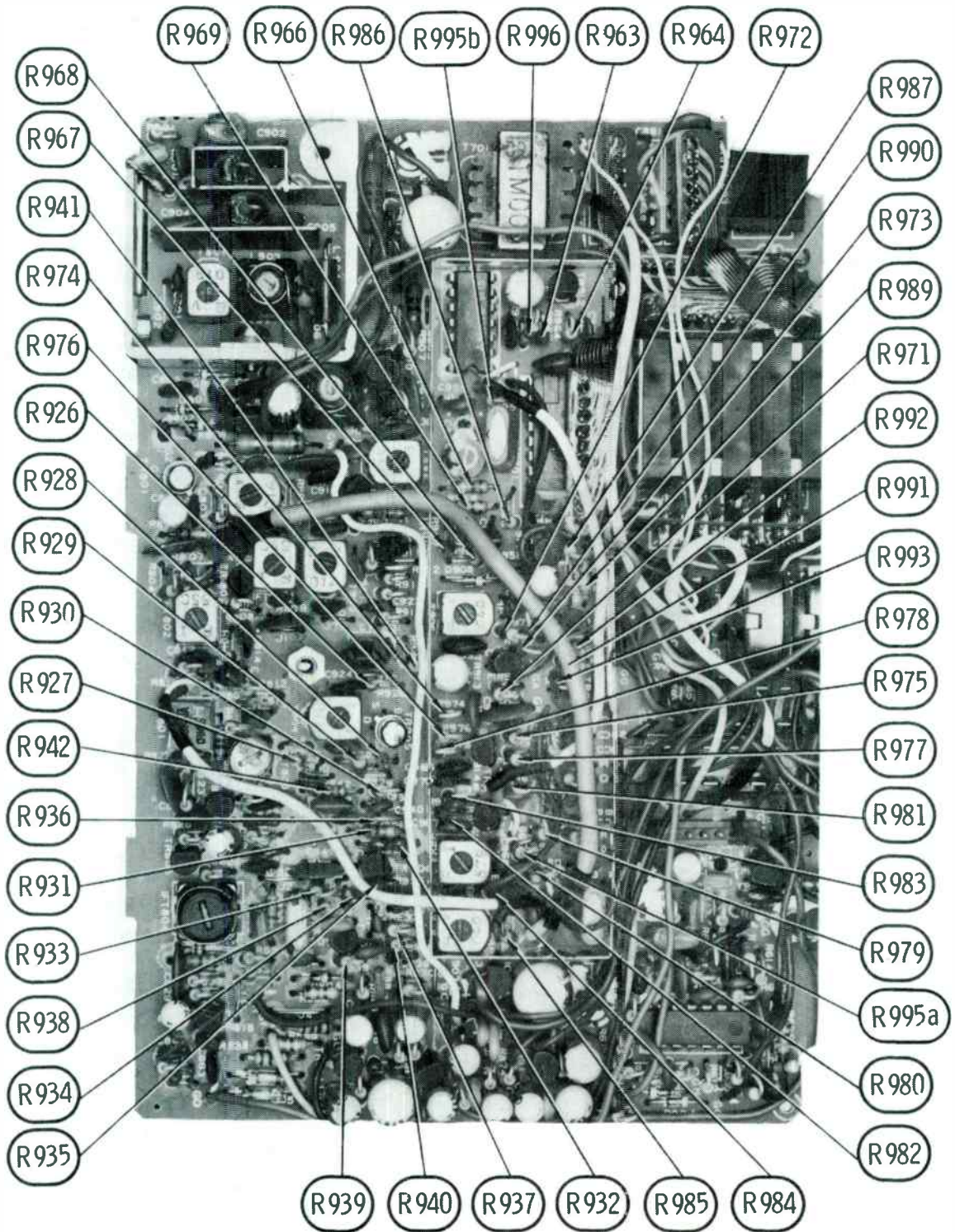


CB MAIN BOARD

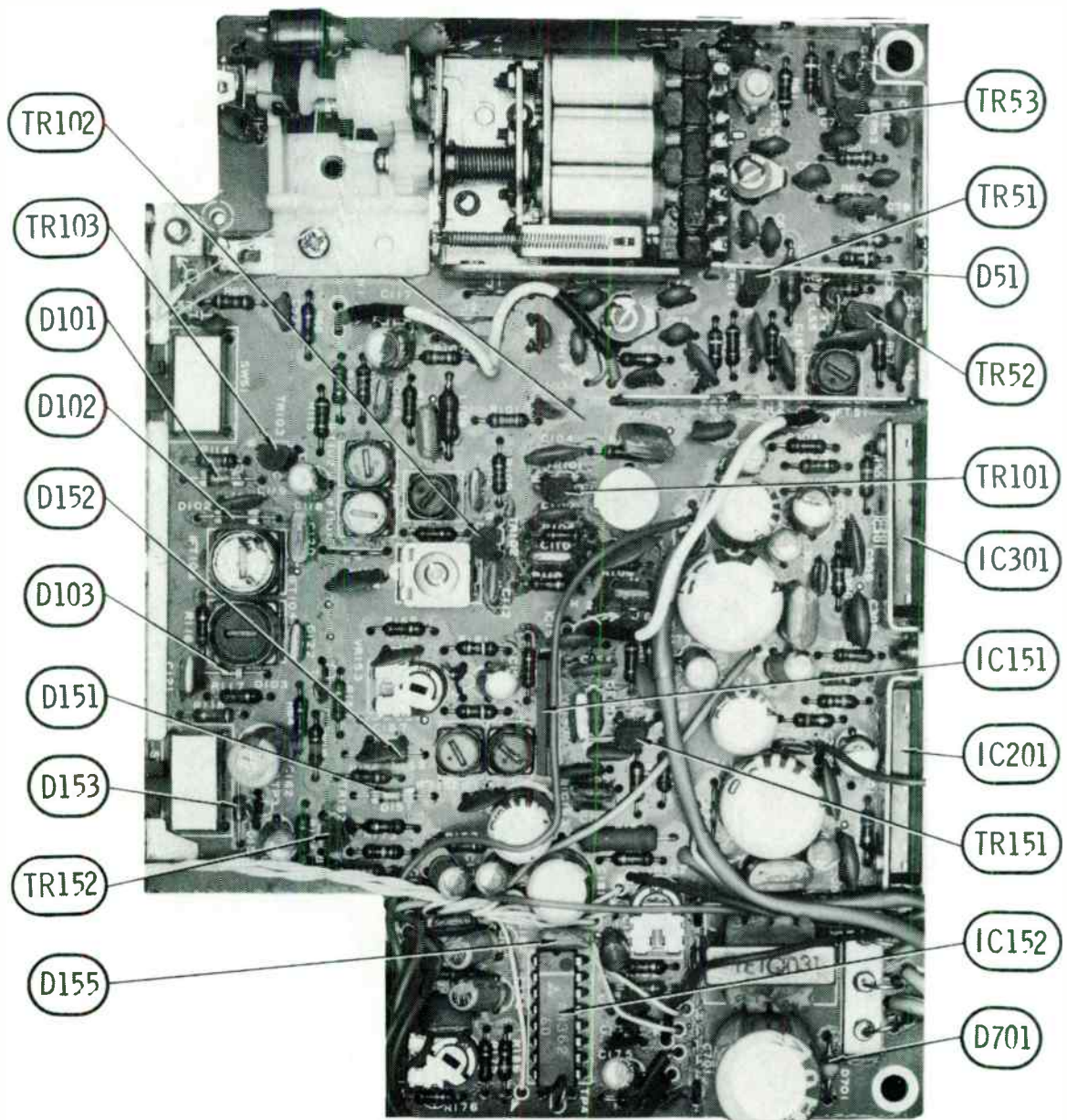


PANASONIC MODEL CR-B4737EU

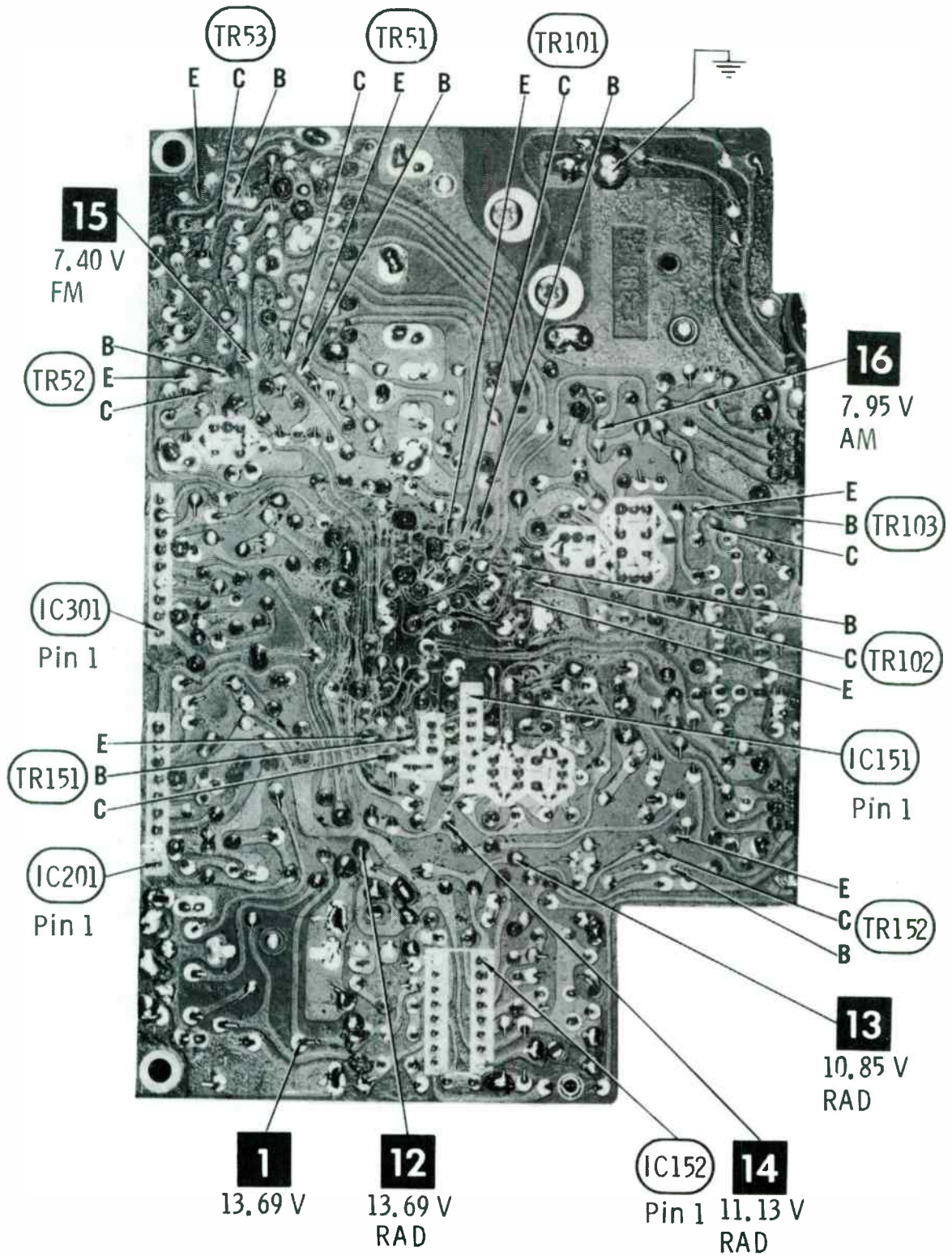
CB MAIN BOARD



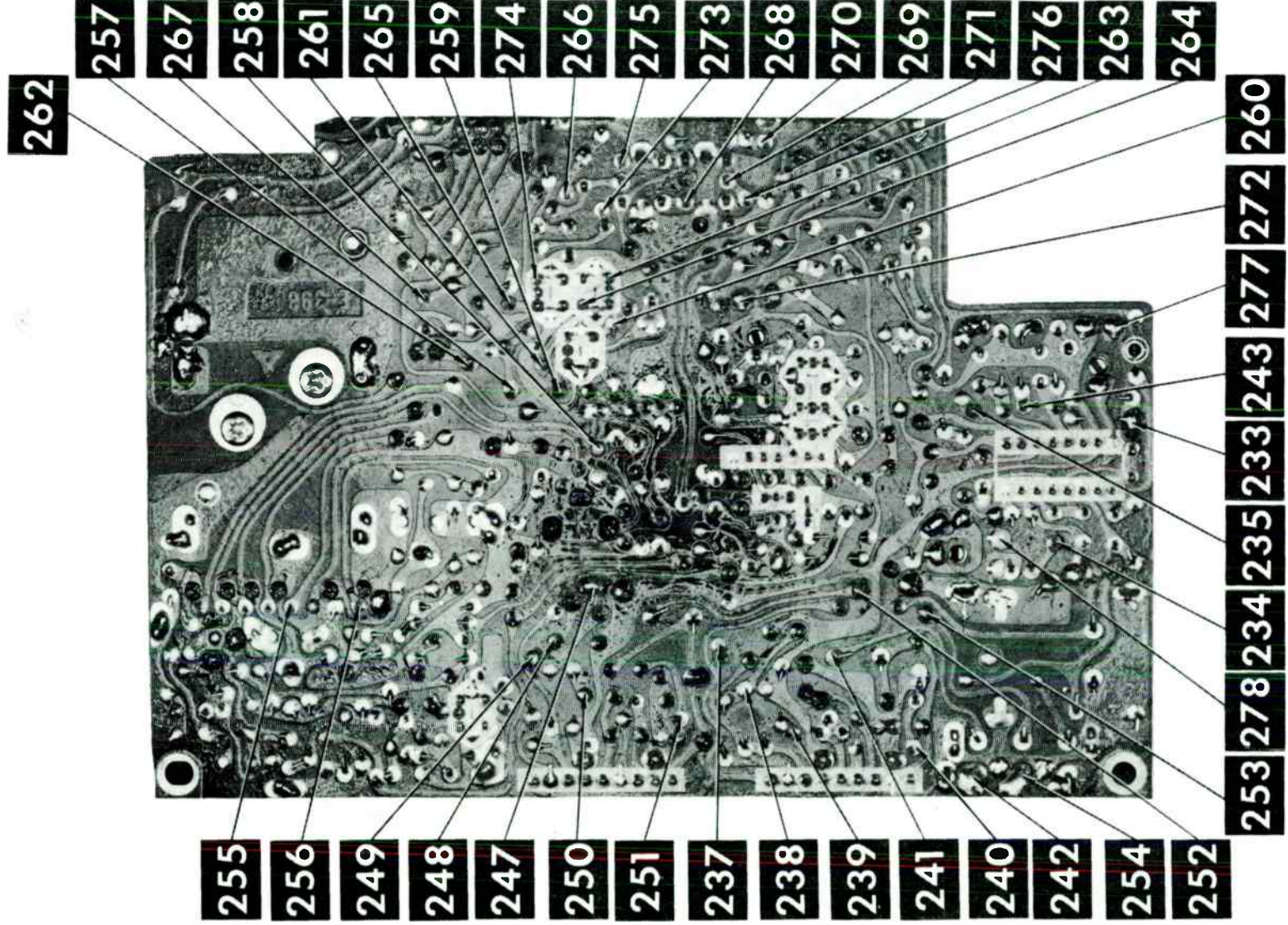
CB MAIN BOARD



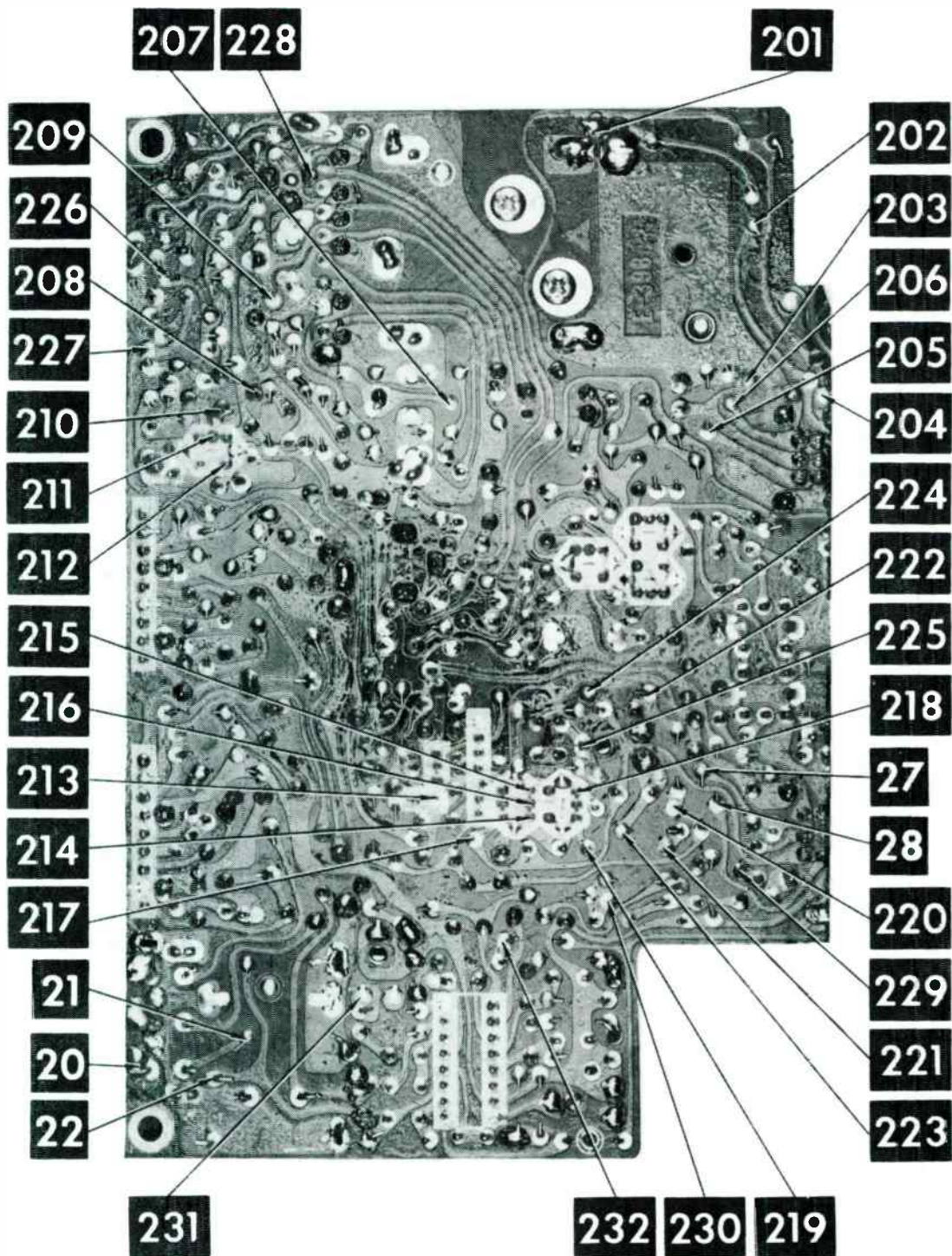
AM-FM MAIN BOARD



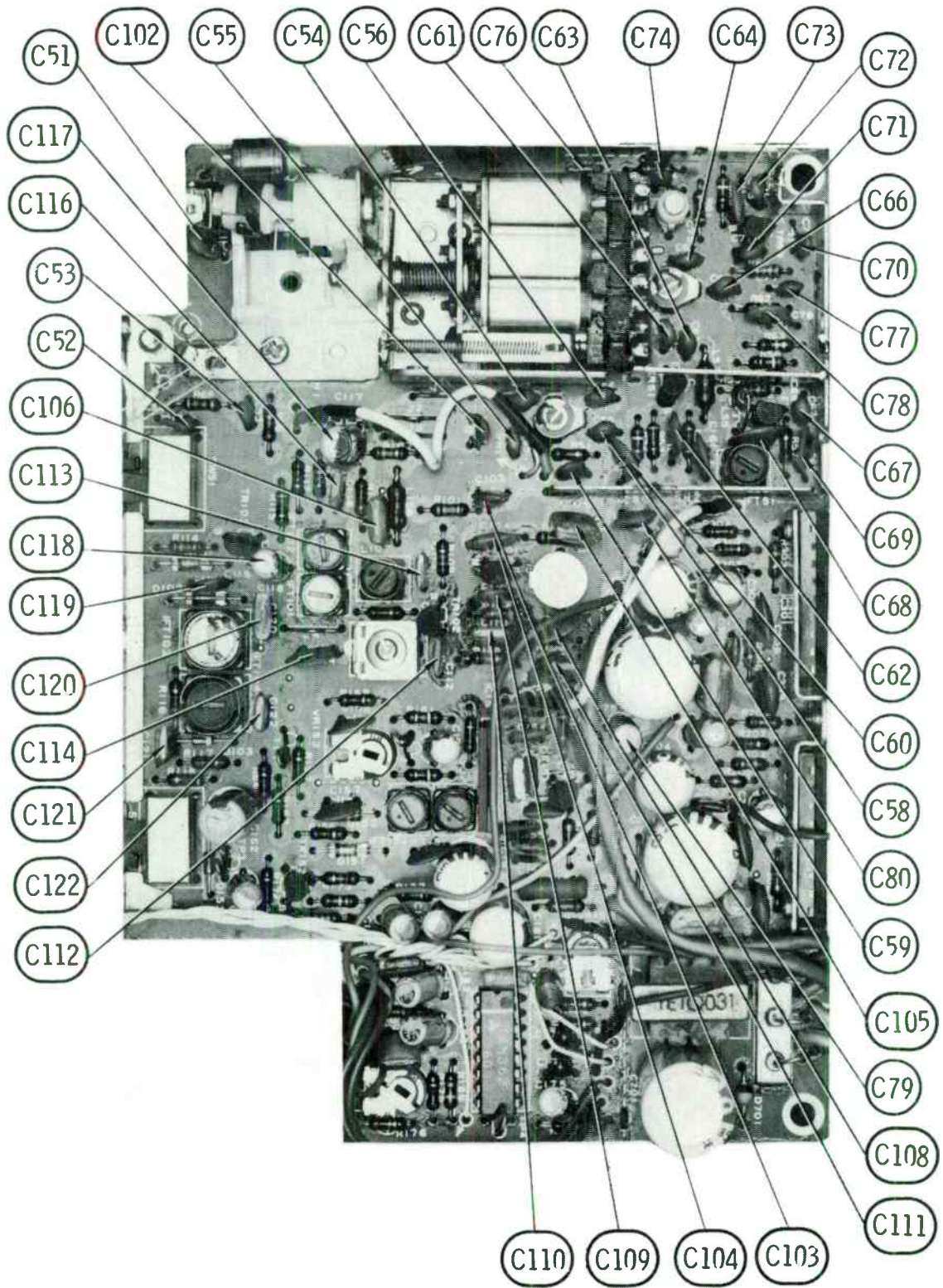
AM-FM MAIN BOARD



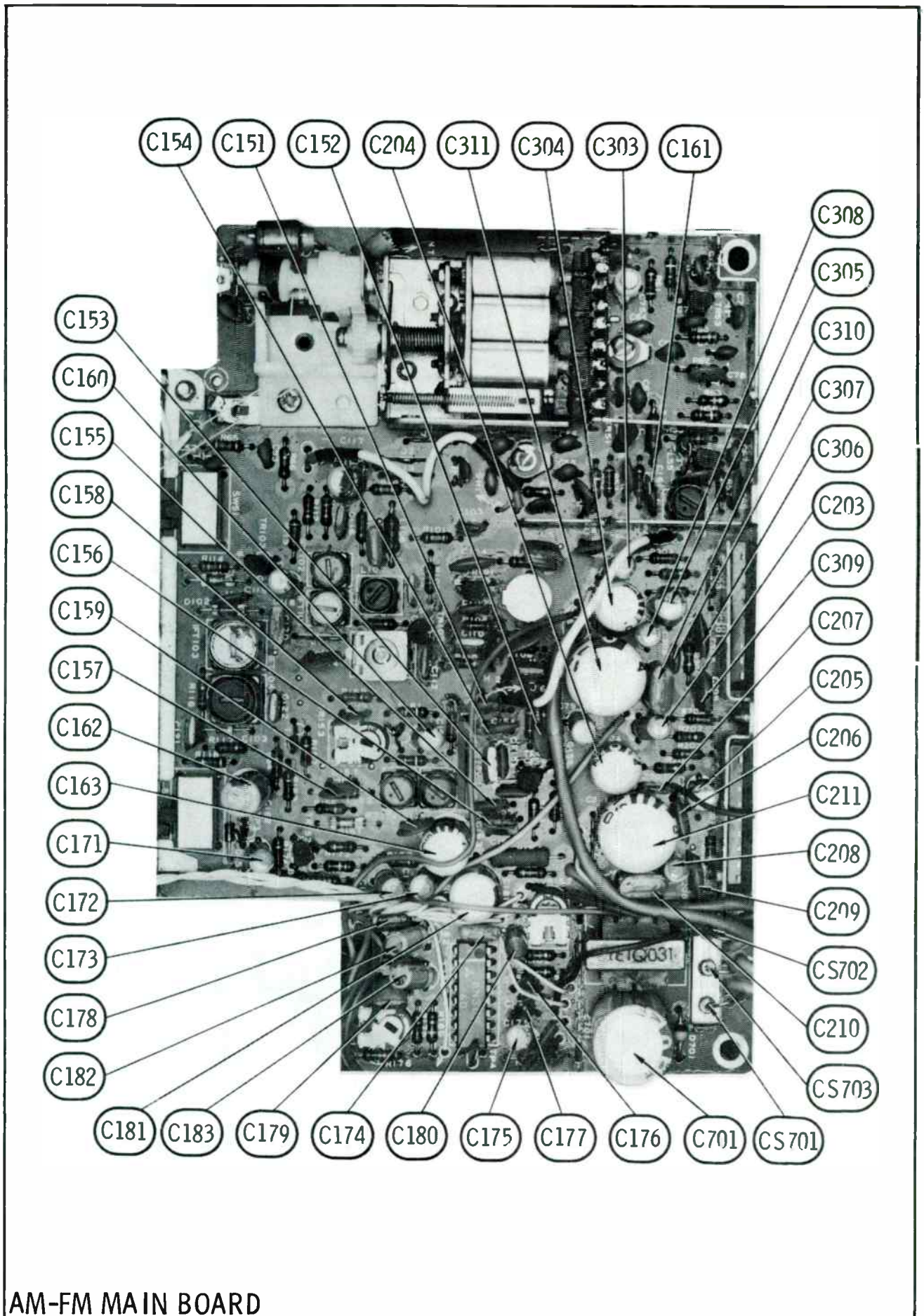
AM-FM MAIN BOARD



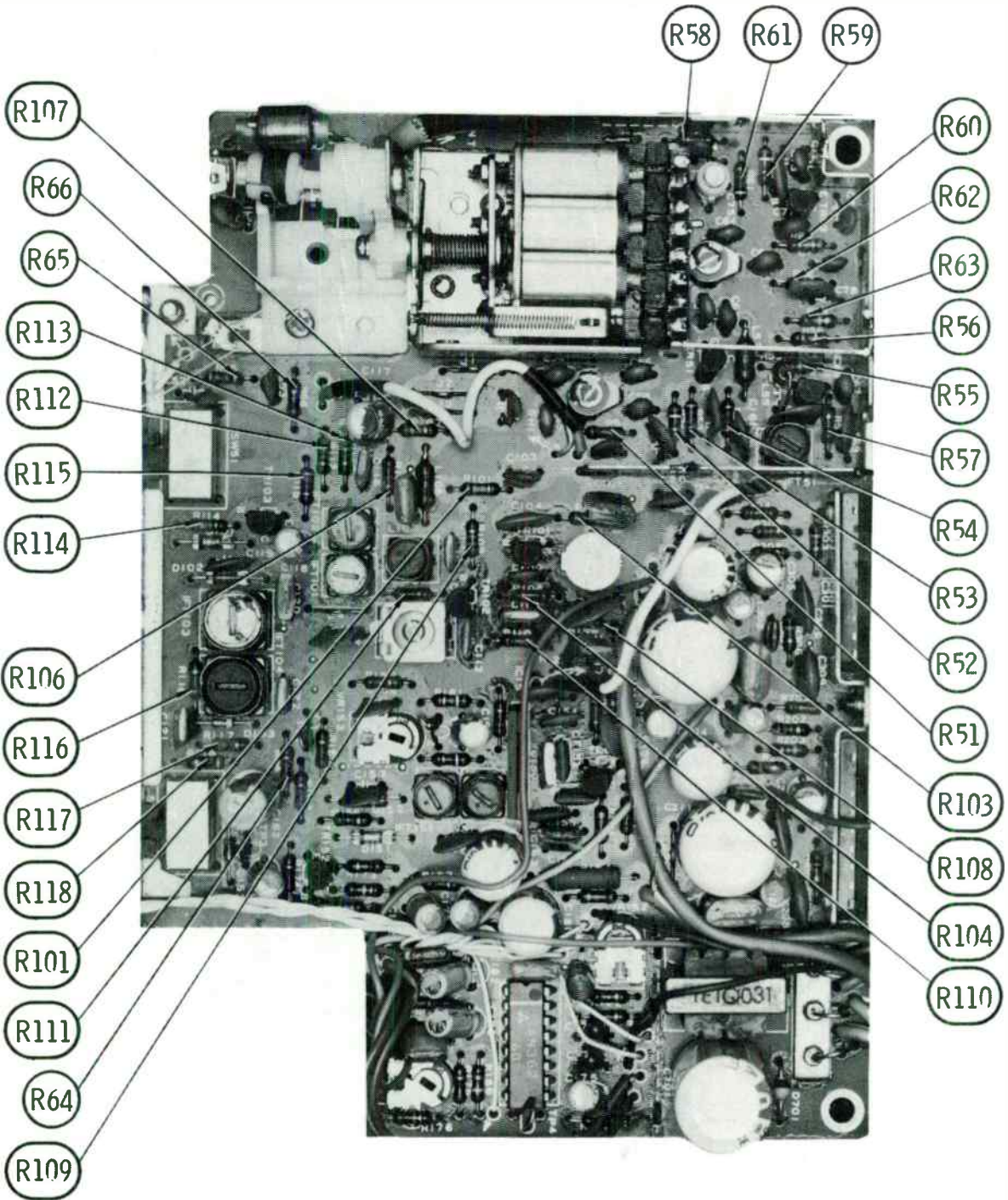
AM-FM MAIN BOARD



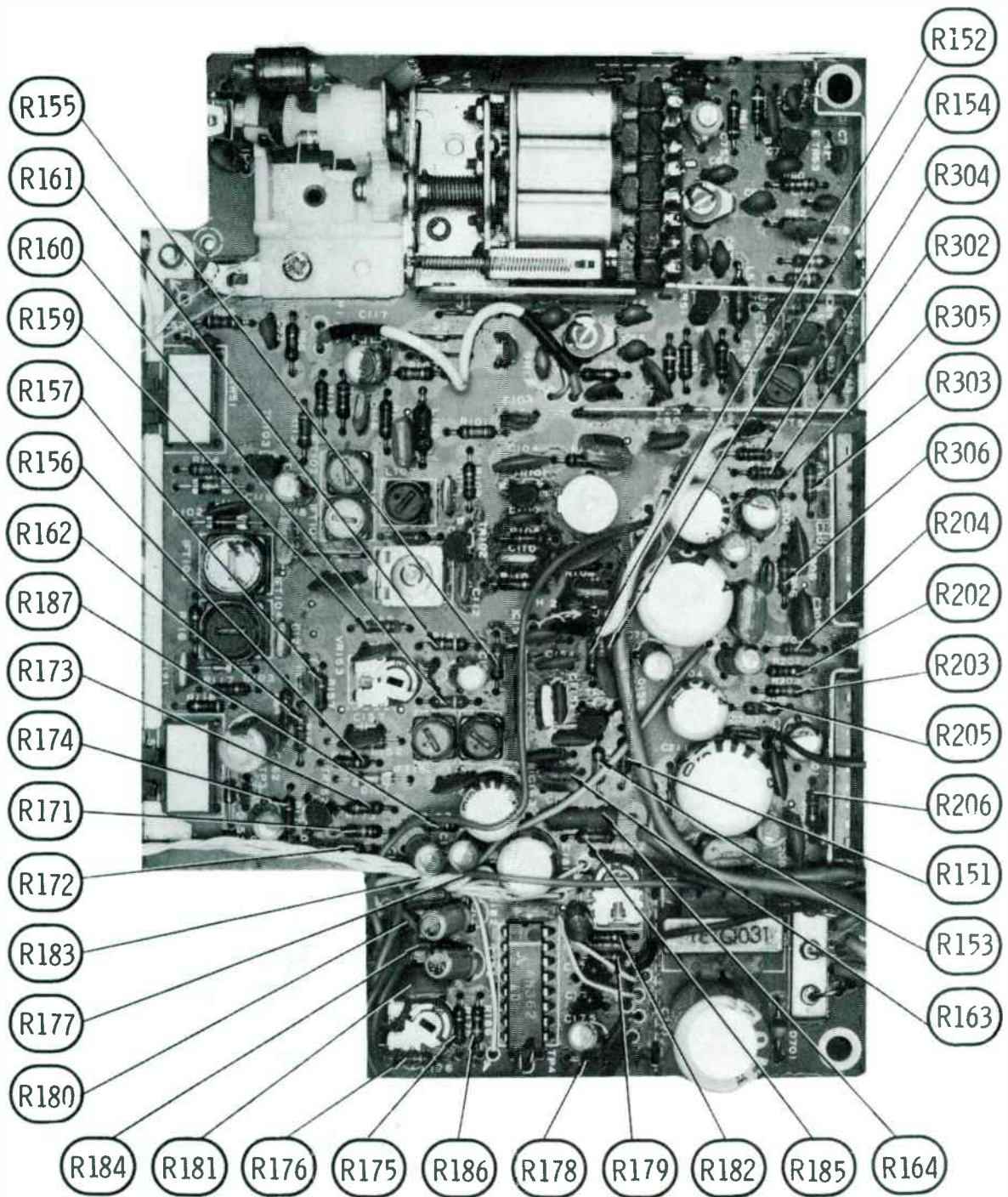
AM-FM MAIN BOARD



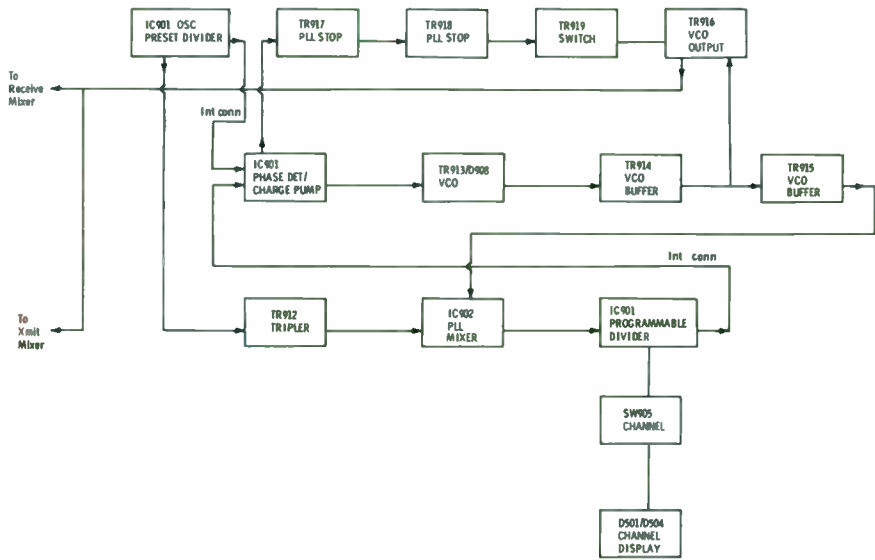
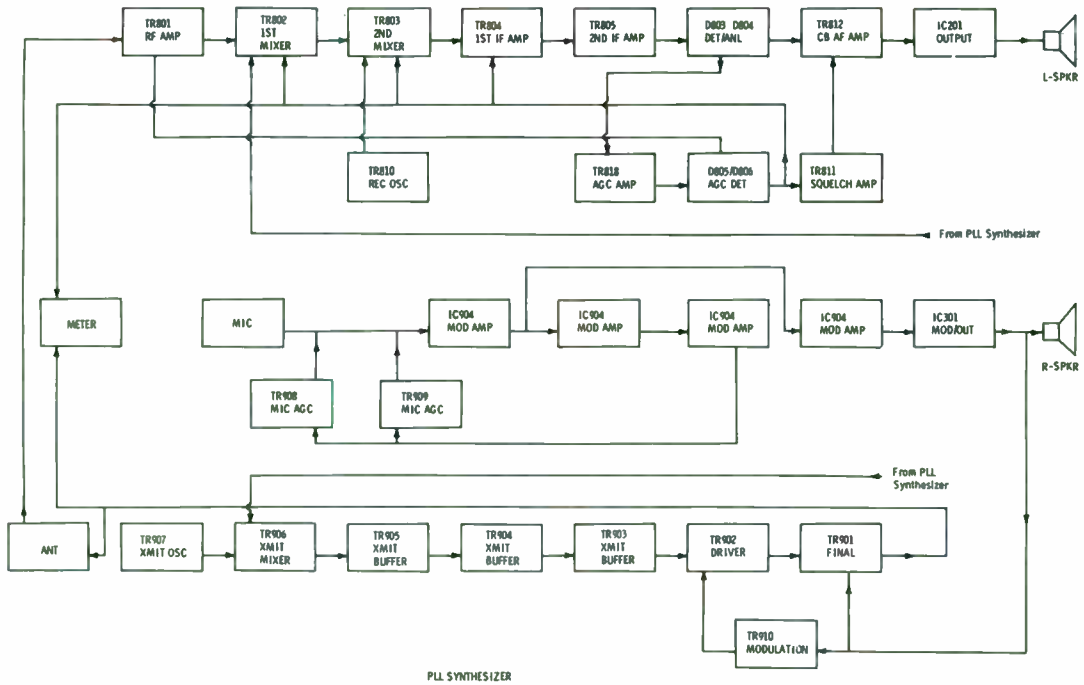
AM-FM MAIN BOARD



AM-FM MAIN BOARD

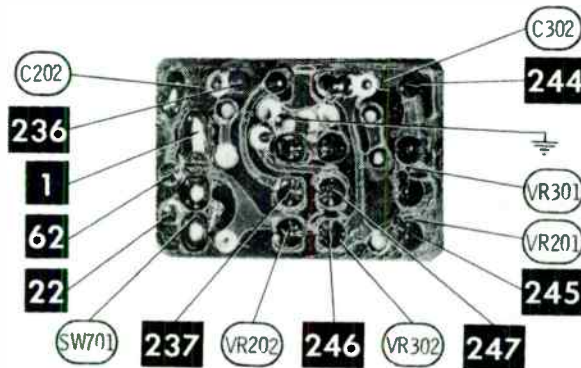


AM-FM MAIN BOARD

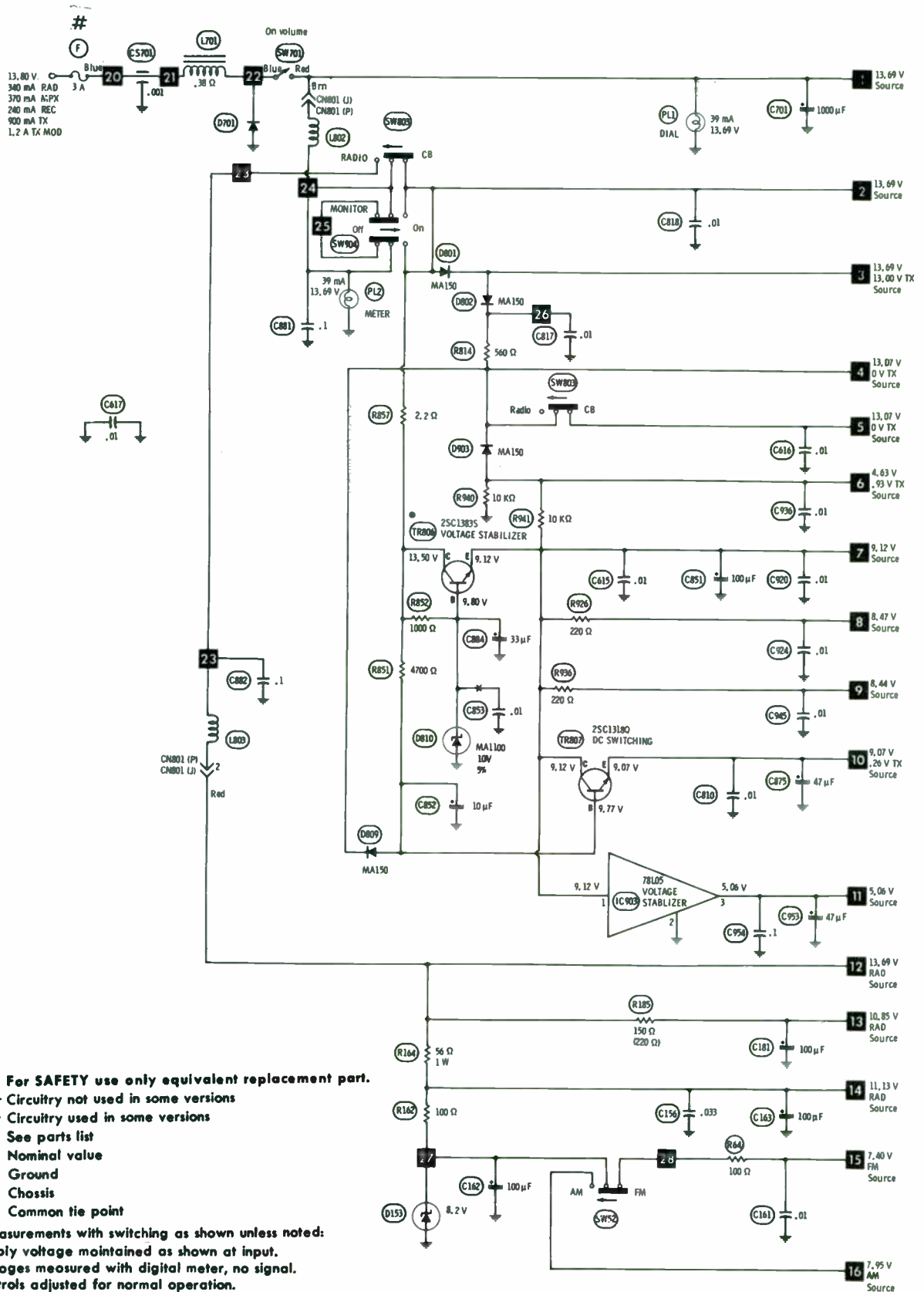


BLOCK DIAGRAM

A Howard W. Sams **CIRCUITRACE** Photo



CONTROL BOARD



For SAFETY use only equivalent replacement part.

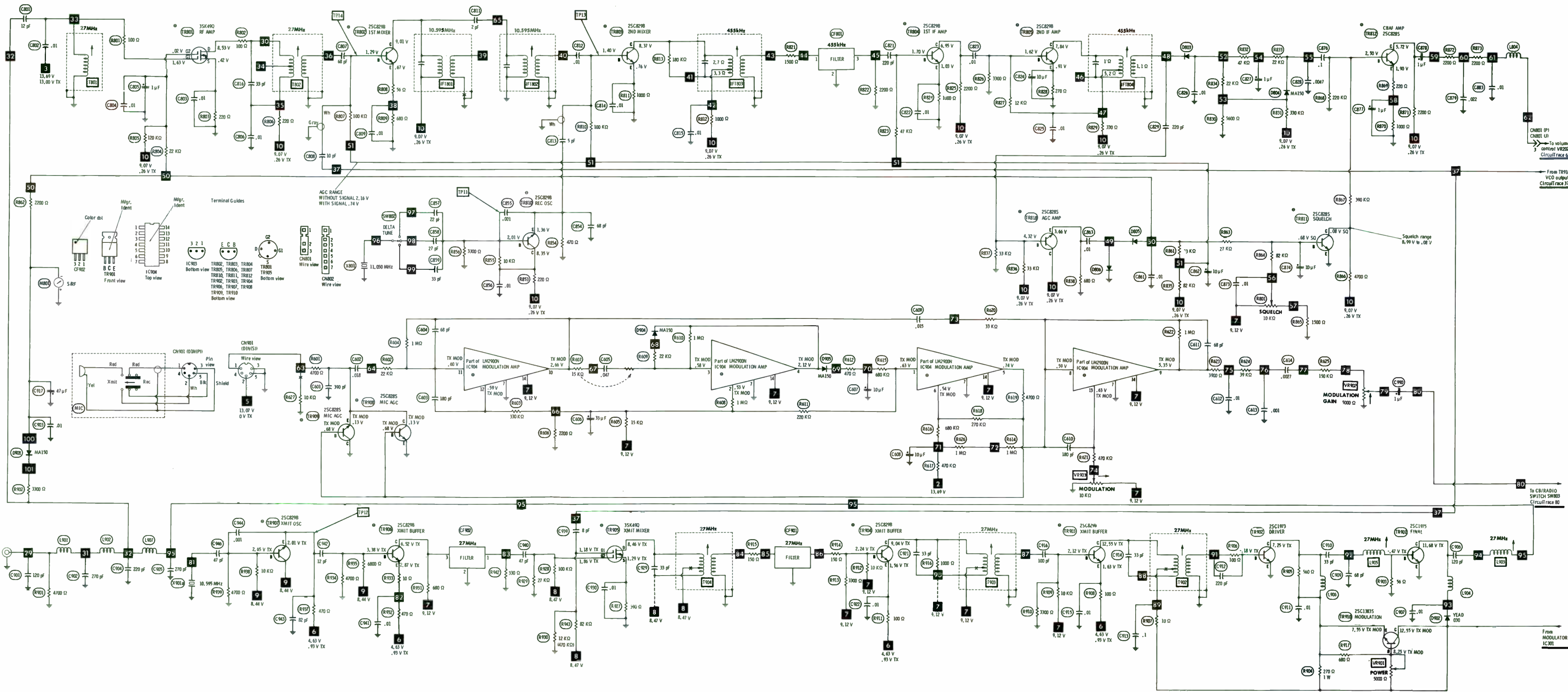
- - - Circuitry not used in some versions
- - - Circuitry used in some versions
- o See parts list
- * Nominal value
- ⊕ Ground
- ⌞ Chassis
- ▽ Common tie point

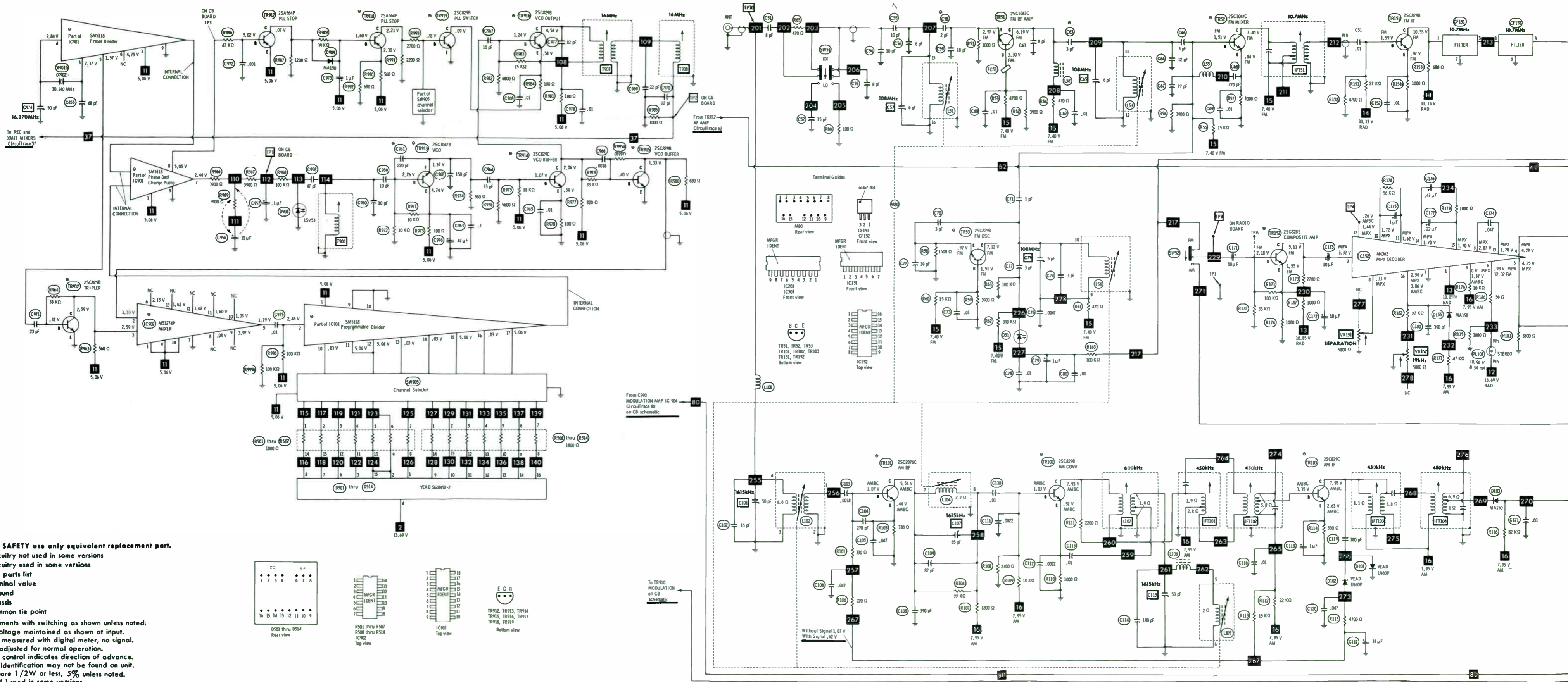
Measurements with switching as shown unless noted:
 Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are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

A PHOTOFACIT STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE**

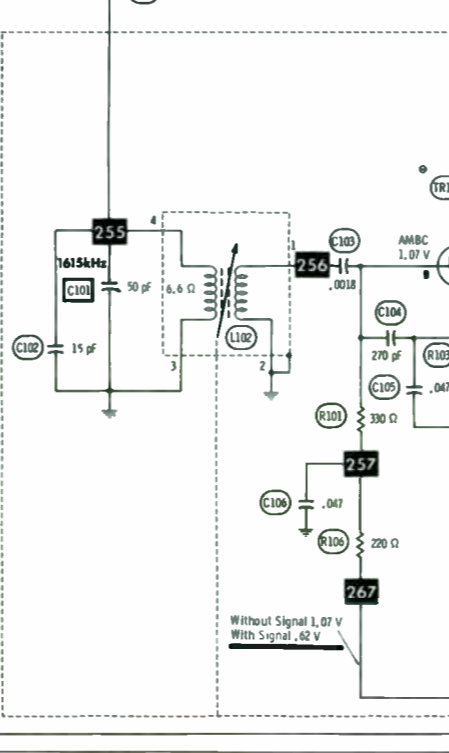
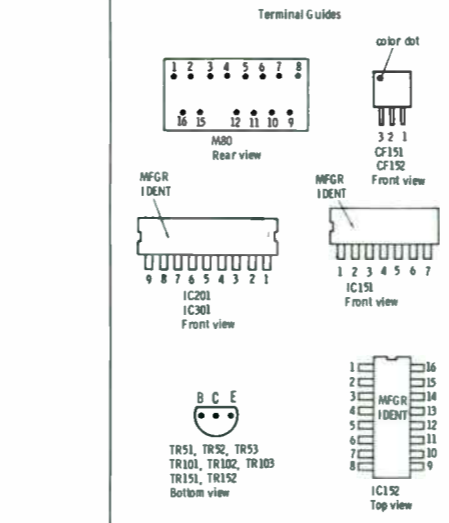
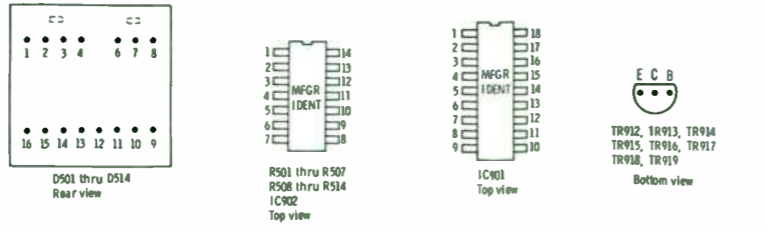
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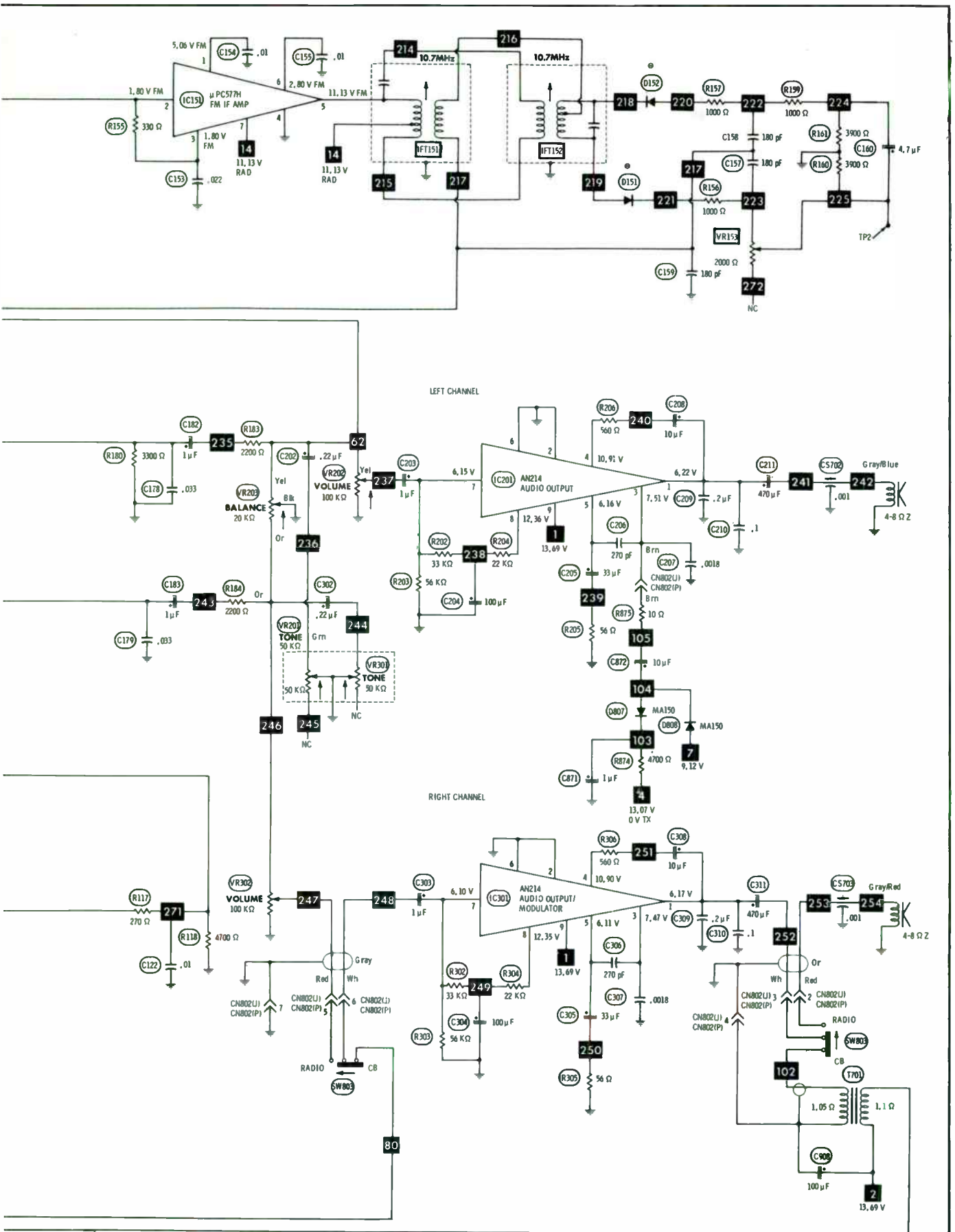




For SAFETY use only equivalent replacement part.
 * Circuitry not used in some versions
 - - - Circuitry used in some versions
 e See parts list
 * Nominal value
 G Ground
 m Chassis
 ▽ Common tie point

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





PANASONIC MODEL CR-B4737EU

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.

SEMICONDUCTORS (Select replacement transistor for best results) (cont)

| ITEM No. | TYPE No. | MFRG. PART No. | REPLACEMENT DATA | | | | | | | |
|----------|---|----------------|---------------------------|---------------------|------------------|-------------------|-------------------|--------------|------------------|-------------------|
| | | | GENERAL ELECTRIC PART No. | IR WORKMAN PART No. | MALLORY PART No. | MOTOROLA PART No. | RAYTHEON PART No. | RCA PART No. | SPRAGUE PART No. | SYLVANIA PART No. |
| TR811 | 2SC828S 2SC828(1) 2SC828R, T (1) | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| | | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| | | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| TR812 | 2SC828S 2SC828(1) | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| | | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| TR818 | 2SC828S 2SC828(1) 2SC828R, T (1) | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| | | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| | | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| TR901 | 2SC1975 (11) | | GE-338 | WEP1306 | PTC186 | | RE 203 | SK3197 | RT-146 | ECG235 |
| TR902 | 2SC1973 (12) | | GE-335 | WEP922 | | | | | | ECG315 |
| TR903 | 2SC829B 2SC829(1) 2SC829C (1) | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| TR904 | 2SC829B 2SC829(1) 2SC829C (1) | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| TR905 | 3SK490 3SK49(1) | | GE-FET-2 | FE-100 | PTC161 | HEPF0021 | RE 45 | SK3116 | RT-175 | ECG312 |
| | | | FE-FET-2 | FE-100 | PTC161 | HEPF0021 | RE 45 | SK3116 | RT-175 | ECG312 |
| TR906 | 2SC829B 2SC829(1) 2SC829C (1) | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| TR907 | 2SC829B 2SC829(1) 2SC829C (1) | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| TR908 | 2SC829S 2SC828(1) 2SC828R, T (1) | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| | | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| | | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| TR909 | 2SC828S 2SC828(1) 2SC828R, T (1) | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| | | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| | | | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| TR910 | 2SC1383S 2SC1383 (1) | | GE-47 | TR-65 * | PTC143 | HEPS3001 * | RE 220 | SK3024 * | RT-302 | ECG293 |
| | | | GE-47 | TR-65 * | PTC143 | HEPS3001 * | RE 220 | SK3024 * | RT-302 | ECG293 |
| TR912 | 2SC829B 2SC829(1) 2SC829C (1) | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| TR913 | 2SC1047B 2SC1047 (1) | | GE-60 * | (IR)2SC829B | PTC132 * | HEPS0016 * | RE 28 * | SK3018 * | RT-107 | ECG161 * |
| | | | GE-60 * | (IR)2SC829B | PTC132 * | HEPS0016 * | RE 28 * | SK3018 * | RT-107 | ECG161 * |
| | | | GE-60 * | (IR)2SC829B | PTC132 * | HEPS0016 * | RE 28 * | SK3018 * | RT-107 | ECG161 * |
| TR914 | 2SC829C 2SC829(1) | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| TR915 | 2SC829B 2SC829(1) 2SC829C (1) | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| TR916 | 2SC829B 2SC829(1) 2SC829C (1) | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| TR917 | 2SA564P 2SA564(1) 2SA564Q, R (1) | | GE-65 | (IR)2SA564A | PTC103 * | HEPS0019 * | RE 193 | SK3114 | RT-303 | ECG234 |
| | | | GE-65 | (IR)2SA564A | PTC103 * | HEPS0019 * | RE 193 | SK3114 | RT-303 | ECG234 |
| | | | GE-65 | (IR)2SA564A | PTC103 * | HEPS0019 * | RE 193 | SK3114 | RT-303 | ECG234 |
| TR918 | 2SA564P 2SA564(1) 2SA564Q, R (1) | | GE-65 | (IR)2SA564A | PTC103 * | HEPS0019 * | RE 193 | SK3114 | RT-303 | ECG234 |
| | | | GE-65 | (IR)2SA564A | PTC103 * | HEPS0019 * | RE 193 | SK3114 | RT-303 | ECG234 |
| | | | GE-65 | (IR)2SA564A | PTC103 * | HEPS0019 * | RE 193 | SK3114 | RT-303 | ECG234 |
| TR919 | 2SC829B 2SC829(1) 2SC829C (1) | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |
| | | | GE-20 * | (IR)2SC829B | PTC121 * | HEPS0015 * | RE 9 * | SK3122 | RT-308 | ECG229 * |

* Lead Configuration may vary from original. (7) Two required - select matched pair.
(1) Used in some versions. (11) Rating 15 watts @ 2A.
(6) Matched pair. (12) Rating 750mW @ 50mA.

PANASONIC MODEL CR-B4737EU

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.

ELECTROLYTIC CAPACITORS

| ITEM No. | RATING | REPLACEMENT DATA | | | | |
|----------|----------|------------------|---------------------------|------------------|------------------|--------------|
| | | MFRG. PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| | | | | | Q-LINE | GENERAL LINE |
| C79 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C117 | 33 10V | ECEA10V33L | PC30-25 | VTT33B10 | QV1-61 | EV-1125 |
| C118 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C160 | 4.7 25V | ECEA25V4R7L | PC5-50 | VTT4R7B50 | QV1-27 | EV-1319 |
| C162 | 100 10V | ECEA10V100L | PC100-10 | VTT100E10 | QV1-93 | EV-1130 |
| C163 | 100 16V | ECEA16V100L | PC100-16 | VTT100F16 | QV1-95 | EV-1230 |
| C171 | 10 16V | ECEA16V10L | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C172 | 10 16V | ECEA16V10L | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C173 | 10 16V | ECEA16V10L | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C175 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C176 | .47 35V | ECSZ35EFR47E | | TOC474M050EL | QOT1-19 | S050-R479 |
| C177 | .22 35V | ECSZ35EFR22E | | TOC224M050EL | QOT1-10 | S050-R229 |
| C181 | 100 16V | ECEA16V100L | PC100-16 | VTT100F16 | QV1-95 | EV-1230 |
| C182 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C183 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C202 | .22 35V | ECSZ35EFR22E | | TOC224M050EL | QOT1-10 | S050-R229 |
| C203 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C204 | 100 16V | ECEA16V100L | PC100-16 | VTT100F16 | QV1-95 | EV-1230 |
| C205 | 33 10V | ECEA10V33L | PC30-25 | VTT33B10 | QV1-61 | EV-1125 |
| C208 | 10 16V | ECEA16V10L | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C211 | 470 16V | ECEA16V470M | PC500-16 | VTT470K16 | QV1-151 | EV-1250 |
| C302 | .22 35V | ECSZ35EFR22E | | TOC224M050EL | QOT1-10 | S050-R229 |
| C303 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C304 | 100 16V | ECEA16V100L | PC100-16 | VTT100F16 | QV1-95 | EV-1230 |
| C305 | 33 10V | ECEA10V33L | PC30-25 | VTT33B10 | QV1-61 | EV-1125 |
| C308 | 10 16V | ECEA16V10L | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C311 | 470 16V | ECEA16V470M | PC500-16 | VTT470K16 | QV1-151 | EV-1250 |
| C701 | 1000 16V | ECEA16V1000L | PC30-25 | VTT33B10 | QV1-61 | EV-1125 |
| C606 | 33 6V | ECEA6V33L | PC30-25 | VTT33B10 | QV1-61 | EV-1125 |
| C607 | 10 10V | ECSZ10EF10Q | | TOC106M025FL | QOT1-64 | S025-109 |
| C608 | 10 10V | ECSZ10EF10Q | | TOC106M025FL | QOT1-64 | S025-109 |
| C805 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C824 | 10 16V | ECEA16V10L | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C827 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C851 | 100 10V | ECEA16V100L | PC100-10 | VTT100E10 | QV1-93 | EV-1130 |
| C852 | 10 16V | ECEA16V10L | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C862 | 10 16V | ECEA16V10L | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C871 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C872 | 10 16V | ECEA16V10L | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C874 | 10 16V | ECEA16V10L | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C875 | 47 16V | ECEA16V47L | PC50-16 | VTT47016 | QV1-73 | EV-1226 |
| C877 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C878 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C884 | 33 16V | ECEA16V33L | PC30-25 | VTT33025 | QV1-63 | EV-1325 |
| C908 | 100 16V | ECEA16V100L | PC100-16 | VTT100F16 | QV1-95 | EV-1230 |
| C917 | 47 10V | ECEA10V47L | PC50-16 | VTT47016 | QV1-73 | EV-1226 |
| C953 | 47 10V | ECEA10V47L | PC50-16 | VTT47016 | QV1-73 | EV-1226 |
| C956 | 10 10V | ECSZ10EF10Q | | TOC106M025FL | QOT1-64 | S025-109 |
| C957 | .1 35V | ECSZ35EFR1Q | | TOC104M050EL | QOT1-2 | S050-R109 |
| C973 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C976 | 47 10V | ECEA10V47L | PC50-16 | VTT47016 | QV1-73 | EV-1226 |
| C990 | 1 50V | ECEA50V1L | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |

CAPACITORS

| ITEM No. | RATING | MFRG. PART No. | REPLACEMENT DATA | | | | |
|----------|-------------|----------------|--------------------|---------------------------|------------------|------------------|--------------|
| | | | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| | | | | | | Q-LINE | GENERAL LINE |
| C51 | 8 | | OTZ-15 | NP015 | CN0415 | | 10TCC-Q15 |
| C52 | 15 | | | | * | | 10TCS-Q10 |
| C53 | 8 | | | | * | | 10TCS-Q10 |
| C54 | 10 N330 1% | YECC01H100FM | | | * | | 10TCS-V56 |
| C55 | 10 N330 ±.5 | YECC01H100OS | | | * | | |
| C56 | 6 N330 ±.5 | YECC01H060OS | | | | | |
| C57 | 6 | ECV1ZW06X32 | | | | | |
| C58 | 2 | | DTZ-2R2 | NP02P2 | CN0522 | | 10TCC-V22 |
| C59 | 18 | | | | CN0418 | | 10TCC-Q18 |
| C60 | .01 | | OC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C61 | 8 | YECC01H080DM | | | | | |
| C62 | .01 | | OC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C63 | 3 | | OTZ-3R3 | NP03P3 | CN0533 | | 10TCC-V33 |
| | 2 | (1) | OTZ-2R2 | NP02P2 | CN0522 | | 10TCC-V22 |
| C64 | 12 N750 | | | | CN7412 | | 10TCU-Q12 |
| C65 | 6 | ECV1ZW06X32 | | | | | |
| C66 | 3 | | OTZ-3R3 | NP03P3 | CN0533 | | 10TCC-V33 |
| C67 | 27 | | | | CN0427 | | 10TCC-Q27 |
| C68 | 270 10% | | 00-271 | GP270 | GP327 | | 10TS-T27 |
| C69 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C70 | 3 | | OTZ-3R3 | NP03P3 | CN0533 | | 10TCC-V33 |
| C71 | 1 | | | | CN0510 | | 10TCC-V10 |
| C72 | 39 | | | | CN0439 | | 10TCC-Q39 |
| C73 | .01 | | OC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C74 | 3 | | OTZ-3R3 | NP03P3 | CN0533 | | 10TCC-V33 |
| C75 | 5 | YECCAT1397 | | | | | |
| C76 | .0047 | | | WMF1047 | EFW1A247 | QF1-57 | 1PB-D47 |
| C77 | 3 | | OTZ-3R3 | NP03P3 | CN0533 | | 10TCC-V33 |
| C78 | .01 | | OC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C80 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C101 | 50 | ECV1ZW50P32 | | | | | GKB50000 |
| C102 | 15 | | OTZ-15 | NP015 | CN0415 | | 10TCC-Q15 |
| C103 | .0018 10% | | | OPMS602 | PVC622 | | 6PS-020 |
| C104 | 270 10% | | 00-271 | GP270 | GP327 | | 10TS-T27 |
| C105 | .047 10% | | | | EFW1A147 | QF1-171 | 1PB-S47 |

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

CAPACITORS (cont)

| ITEM No. | RATING | MFR. PART No. | REPLACEMENT DATA | | | | |
|----------|-------------|---------------|--------------------|---------------------------|------------------|------------------|--------------|
| | | | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| | | | | | | Q-LINE | GENERAL LINE |
| C106 | .047 10% | YECTFC001 | | | EWFA1A147 | QF1-171 | 1P8-S47 |
| C107 | .65 | | | | | | |
| C108 | 390 10% | | 00-391 | GP390 | GP339 | | 10TS-T39 |
| C109 | 82 10% | | 00-820 | | GP482 | | 10TS-Q82 |
| C110 | .01 | | | WMF1S1 | EWFA1A110 | QF1-91 | 1P8-S10 |
| C111 | .0022 10% | | | OPMS6022 | EWFA1A110 | | 6PS-022 |
| C112 | .0022 10% | | | OPMS6022 | EWFA1A110 | | 6PS-022 |
| C113 | .01 | | | WMF1S1 | EWFA1A110 | QF1-91 | 1P8-S10 |
| C114 | 180 N330 5% | | YECC01H181JS | | * | | 10TCS-T18 |
| C115 | 50 | | YECTTC10S700 | | | | GK850000 |
| C116 | .01 | | WMF1S1 | EWFA1A110 | QF1-91 | 1P8-S10 | |
| C119 | 180 10% | | 00-181 | GP318 | | 10TS-T18 | |
| C120 | .047 | | | EWFA1A147 | QF1-171 | 1P8-S47 | |
| C121 | .01 | | | EWFA1A110 | QF1-91 | 1P8-S10 | |
| C122 | .01 | | | EWFA1A110 | QF1-91 | 1P8-S10 | |
| C151 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C152 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C153 | .022 | | 0C-103 | OPMS2S22 | EWFA1A122 | QF1-127 | |
| C154 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C155 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C156 | .033 | | | M192P3339R8 | | 192P3339R8 | |
| C157 | 180 10% | | 00-181 | GP318 | | 10TS-T18 | |
| C158 | 180 10% | | 00-181 | GP318 | | 10TS-T18 | |
| C159 | 180 10% | | 00-181 | GP318 | | 10TS-T18 | |
| C161 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C174 | .047 10% | | | EWFA1A147 | QF1-171 | 1P8-S47 | |
| C178 | .033 | | | M192P3339R8 | | 192P3339R8 | |
| C179 | .033 | | | M192P3339R8 | | 192P3339R8 | |
| C180 | 390 5% | | | C015F0391J03 | SX339 | MWA-391 | |
| C206 | 270 10% | | 00-271 | GP270 | GP327 | 10TS-T27 | |
| C207 | .0018 10% | | | OPMS602 | PVC622 | 6PS-020 | |
| C209 | .2 12V | | UK16-204 | | | HY-470 | |
| C210 | .1 | | | WMF05P1 | EWF05010 | 431P1049R5 | |
| C306 | 270 10% | | 00-271 | GP270 | GP327 | 10TS-T27 | |
| C307 | .0018 10% | | | OPMS602 | PVC622 | 6PS-020 | |
| C309 | .2 12V | | UK16-204 | | | HY-470 | |
| C310 | .1 | | | WMF05P1 | EWF05010 | 431P1049R5 | |
| C601 | 390 10% | | 00-391 | GP390 | GP339 | 10TS-T39 | |
| C602 | .018 | | | M192P1839R8 | | 192P1839R8 | |
| C603 | 180 10% | | 00-181 | GP318 | | 10TS-T18 | |
| C604 | 68 | | 00-680 | GP68 | GP468 | 10TS-Q68 | |
| C605 | .047 10% | | | EWFA1A147 | QF1-171 | 1P8-S47 | |
| C609 | .015 | | | WMF1S15 | EWFA1A115 | QF1-105 | |
| C610 | 180 10% | | 00-181 | GP318 | | 10TS-T18 | |
| C611 | 68 | | 00-680 | GP68 | GP468 | 10TS-Q68 | |
| C612 | .01 10% | | | WMF1S1 | EWFA1A110 | QF1-91 | |
| C613 | .001 10% | | | OPMS601 | EWFA1A210 | QF1-1 | |
| C614 | .0027 10% | | | M192P2729R8 | | 192P2729R8 | |
| C615 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C616 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C617 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C801 | 12 | | | CN0412 | | 10TCC-Q12 | |
| C802 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C803 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C804 | .01 10% | YECK01H103KB | | | | | |
| C806 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C807 | 68 | | 00-680 | GP68 | GP468 | 10TS-Q68 | |
| C808 | 10 | | 0TZ-10 | NP010 | CN0410 | 10TCC-Q10 | |
| C809 | .01 10% | YECK01H103KB | | | | | |
| C810 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | |
| C811 | 2 | | 0TZ-2R2 | NP02P2 | CN0522 | 10TCC-V22 | |
| C812 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C813 | 5 | | 0TZ-4R7 | NP04P7 | CN0547 | 10TCC-V47 | |
| C814 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C815 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C816 | 33 | | 0TZ-33 | NP033 | CN0433 | 10TCC-Q33 | |
| C817 | .01 10% | YECK01H103KB | | | | | |
| C818 | .01 10% | YECK005103Z | | | | | |
| C821 | 220 10% | | 0D-221 | | GP322 | 10TS-T22 | |
| C822 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C823 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | |
| C825 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C826 | .01 10% | | | WMF1S1 | EWFA1A110 | QF1-91 | |
| C828 | .0047 10% | | | WMF1D47 | EWFA1A247 | QF1-57 | |
| C829 | 220 10% | | 00-221 | GP322 | | 10TS-T22 | |
| C853 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C854 | 68 | | 00-680 | GP68 | GP468 | 10TS-Q68 | |
| C855 | .001 10% | | | OPMS601 | EWFA1A210 | QF1-1 | |
| C856 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C857 | 22 | | 0TZ-22 | NP022 | CN0422 | 10TCC-Q22 | |
| C858 | 27 | | | CN0427 | | 10TCC-Q27 | |
| C859 | 33 | | 0TZ-33 | NP033 | CN0433 | 10TCC-Q33 | |
| C861 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | |
| C863 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C873 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C876 | .1 12V | | UK12-104 | | MAG1201 | HY-360 | |
| C879 | .022 10% | | | OPMS2S22 | EWFA1A122 | QF1-127 | |
| C881 | .1 12V | | UK12-104 | | MAG1201 | HY-360 | |
| C882 | .1 12V | | UK12-104 | | MAG1201 | HY-360 | |
| C883 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C901 | 120 10% | | 0TZ-120 | | CN0312 | 10TCC-T12 | |
| C902 | 270 5% | | 00-271 | GP270 | GP327 | 10TS-T27 | |
| C903 | .01 | | 0C-103 | MGP01 | TA110 | QC2-141 | |
| C904 | 220 10% | | 00-221 | | GP322 | 10TS-T22 | |

PANASONIC MODEL CR-B4737EU

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

CAPACITORS (cont)

| ITEM No. | RATING | MFR. PART No. | REPLACEMENT DATA | | | | |
|----------|-------------|---------------|---------------------|---------------------------|------------------|------------------|--------------|
| | | | CENTRALLAB PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| | | | | | | Q-LINE | GENERAL LINE |
| C905 | 270 5% | | 0D-271 | GP270 | GP327 | | 10TS-T27 |
| C906 | 120 10% | | DTZ-120 | | CN0312 | | 10TCC-T12 |
| C907 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C909 | 68 | | DD-680 | GP68 | GP468 | | 10TS-Q68 |
| C910 | 33 | | DTZ-33 | NPO33 | CN0433 | | 10TCC-Q33 |
| C911 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C912 | 220 10% | | DD-221 | | GP322 | | 10TS-T22 |
| C913 | .1 12V | | UK12-104 | | MAG1201 | | HY-360 |
| C914 | 33 | | DTZ-33 | NPO33 | CN0433 | | 10TCC-Q33 |
| C915 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C916 | 100 | | DD-101 | GP100 | GP310 | | 10TS-T10 |
| C920 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C921 | 33 | | DTZ-33 | NPO33 | CN0433 | | 10TCC-Q33 |
| C922 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C924 | .01 | | OC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C929 | 33 N150 5% | YECCD1H330JP | | | | | 10TCP-Q33 |
| C930 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C936 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C939 | 8 | YECCD1H080DM | | | | | |
| C940 | 47 | | DTZ-47 | HP047 | CN0447 | | 10TCC-Q47 |
| C941 | .01 10% | YECKD1H103KB | | | | | |
| C942 | 12 | | | | CN0412 | | 10TCC-Q12 |
| C943 | 82 10% | | DD-820 | | GP482 | | 10TS-Q82 |
| C944 | .001 10% | | | DPMS6D1 | EWFA210 | QF1-1 | 1PB-D10 |
| C945 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C946 | 47 | | DTZ-47 | HP047 | CN0447 | | 10TCC-Q47 |
| C954 | .1 12V | | UK12-104 | | MAG1201 | | HY-360 |
| C955 | 68 | | DD-680 | GP68 | GP468 | | 10TS-Q68 |
| C958 | 47 N330 10% | YECCD1H470KS | | | * | | 10TCS-Q47 |
| C959 | 10 N470 | YECC01H100KT | | | * | | 10TCT-Q10 |
| C960 | 10 N470 | YECCD1H100KT | | | * | | 10TCT-Q10 |
| C961 | 220 10% | | DD-221 | | GP322 | | 10TS-T22 |
| C962 | 150 10% | | DD-151 | | GP315 | | 10TS-T15 |
| C963 | .1 12V | | UK12-104 | | MAG1201 | | HY-360 |
| C964 | 33 | | DTZ-33 | HP033 | CN0433 | | 10TCC-Q33 |
| C965 | .01 | | OC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C966 | .0018 10% | | | DPMS6D2 | PVC622 | | 6PS-D20 |
| C967 | 10 | | DTZ-10 | HP010 | CN0410 | | 10TCC-Q10 |
| C968 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C969 | 22 | | DTZ-22 | HP022 | CN0422 | | 10TCC-Q22 |
| C970 | 22 | | DTZ-22 | HP022 | CN0422 | | 10TCC-Q22 |
| C971 | 33 | | DTZ-33 | HP033 | CN0433 | | 10TCC-Q33 |
| C972 | .001 10% | | | DPMS6D1 | EWFA210 | QF1-1 | 1PB-D10 |
| C974 | 50 | ECV1ZW50X32 | | | | | GKB50000 |
| C975 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C977 | 82 10% | | DD-820 | | GP482 | | 10TS-Q82 |
| C978 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| CS701 | | YECC1510289 | | | | | |
| CS702 | | YECC1510289 | | | | | |
| CS703 | | YECC1510289 | | | | | |

(1) Used in some versions.

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

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

| ITEM No. | FUNCTION | RESISTANCE | REPLACEMENT DATA | | | | |
|----------|-----------------------------|------------|------------------|---------------------|--------------------|------------------|--------------|
| | | | MFR. PART No. | CENTRALLAB PART No. | CLAROSTAT PART No. | MALLORY PART No. | TRW PART No. |
| VR151 | Separation | 5000 | EVNK4AA00B53 | | | | |
| VR152 | 19kHz | 5000 | EVNK4AA00B53 | | | | |
| VR153 | FM Balance | 2000 | EVNK4AA00B53 | | | | |
| VR201 | Tone - Left | 50K | EWK37BS46744 | | | | |
| VR202 | Tone - Right | 50K | (18) | | | | |
| VR301 | Volume - Left | 100K | | | | | |
| VR302 | Volume - Right/Power Switch | 100K | | | | | |
| VR203 | Balance | 20K | EVKYWAS47624 | | | | |
| VR801 | Squelch/Delta Tune Switch | 10K | ENK07AS20B14 | | | | |
| VR901 | Power | 5000 | EVNK4AA00353 | | | | |
| VR902 | Mod Gain | 5000 | EVNK4AA00B53 | | | | |
| VR903 | Modulation | 10K | EVNK4AA00B14 | | | | |

(18) Includes VR201, VR202, VR301, VR302 and SW701.

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. |
| R501 thru R507 | 1800 | | EXBRB7182M (1) | R508 thru R514 | 1800 | | EXBRB7182M (1) |

(1) Consists of 7-1800 Ohm Resistors.

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. | |
| L51 | FM Antenna | (1) | | | (1) Part of M80 (Tuner) |
| L52 | RF Choke | YELT06C003 | | | |
| L53 | FM RF | (1) | | | |
| L54 | FM Osc | (1) | | | |
| L55 | RF Choke | YELT03C011 | | 4611 | |
| L101 | RF Choke | YELQ09N004 | | | |
| L102 | AM Antenna | (1) | | | |
| L104 | AM RF | (1) | | | |
| L105 | AM Osc | (1) | | | |
| L106 | RF Choke | YELT06C003 | | | |
| L107 | AM Osc (600kHz) | YELL07S069 | | | |
| L802 | RF Choke | YELT04C020 | | | |
| L803 | RF Choke | YELT04C020 | | | |
| L804 | RF Choke | YELT06C003 | | | |
| L901 | RF Choke | YELT04N017 | | | |
| L902 | RF Choke | YELT04N017 | | | |
| L903 | Final Amp (27MHz) | EIV10H43 | | | |
| L904 | RF Choke | YELT04ND18 | | | |
| L905 | Xmit Driver (27MHz) | EIV10H36 | | | |
| L906 | RF Choke | YELQ04N009 | | | |
| L907 | RF Choke | YELT04N017 | | | |
| T801 | Rec Antenna (27MHz) | EIV7E701B | 56R | | |
| T802 | Rec RF (27MHz) | EIV7E701A | | | |
| T902 | Xmit Buffer (27MHz) | EIV7E701A | | | |
| T903 | Xmit Buffer (27MHz) | EIV7E701A | | | |
| T904 | Xmit Mixer (27MHz) | EIV7E701A | 66Q | | |
| T906 | VCO | EIV7E704A | 96P | | |
| T907 | VCO Output (16MHz) | EIF7S757B | 96Q | | |
| T908 | VCO Output (16MHz) | EIV7E704A | 96P | | |
| IFT51 | FM Mixer (10.7MHz) | YEIF07S7049 | | | |
| IFT101 | AM Convergence (450kHz) | YEIA07S7076A | | | |
| IFT102 | AM Convergence (450kHz) | YEIA07S7077B | | | |
| IFT103 | AM IF (450kHz) | YEIA10S7091 | | | |
| IFT104 | AM IF (450kHz) | YEIA10S7092 | | | |
| IFT151 | FM IF (10.7MHz) | YEIF07S7048 | | | |
| IFT152 | FM IF (10.7MHz) | YEIF07S7047 | | | |
| IFT801 | Rec Mixer (10.595MHz) | EIF7S755C | 76TE | | |
| IFT802 | Rec Mixer (10.595MHz) | EIF7S755C | 76TE | | |
| IFT803 | CB IF (455kHz) | YEIA07S7074C | | | |
| IFT804 | CB IF (455kHz) | YEIA10S7086 | | | |

PANASONIC MODEL CR-B4737EU

FILTER CHOKE

| ITEM No. | RATINGS | | | REPLACEMENT DATA | | | NOTES |
|----------|--------------------|---------|------------------------------|----------------------------|---------------------|----------------|---------------------|
| | CURRENT (Measured) | DC RES. | INDUCTANCE (0 CURRENT 1000~) | MFGR. PART No. | THORDARSON PART No. | TRIAD PART No. | |
| L701 | 1.2A | .38 | 3.17mH | YETQ020F031 YETQ031 (1) | | | (1) Number on unit. |

TRANSFORMER

| ITEM No. | TURNS RATIO | | | REPLACEMENT DATA | | | NOTES |
|----------|-------------|--------|--------|--------------------------|---------------------|----------------|---------------------|
| | PRI. | SEC. 1 | SEC. 2 | MFGR. PART No. | THORDARSON PART No. | TRIAD PART No. | |
| T701 | .5 | 1 | | YETM119X003 TM003 (1) | | | (1) Number on unit. |

FUSE DEVICES

| ITEM No. | DESCRIPTION | REPLACEMENT DATA | | | | | | |
|----------|----------------|------------------|--------------------------|---------------|--------|---------------------|--------|------------------|
| | | PART No. | | BUSS PART No. | | LITTELFUSE PART No. | | WORKMAN PART No. |
| | | DEVICE | HOLDER | DEVICE | HOLDER | DEVICE | HOLDER | DEVICE |
| F | 3A Fast Acting | YEAFO1001 # | YEAJO1109 & YEAJO1110 | AGC3 | HDJ | 312003 | 150145 | F63-2 |

For SAFETY use only equivalent replacement part.

MICROPHONE

| ITEM No. | REPLACEMENT DATA | | | | CONNECTION DATA | | | | | | | |
|----------|------------------|-------------|-----------------|----------|-----------------|--------|-----------|-----------|---------|----------|----------|--|
| | MFGR. 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 | WM22910 | 18-032 | 18-034 | 18-010 | 18-105 | 1 | 3 | 2 | NC | NC | 5 | |

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

CRYSTALS

| ITEM No. | CRYSTAL FREQUENCY IN MHz | MFGR. PART No. | CTS KNIGHTS PART No. | CHANNEL | ITEM No. | CRYSTAL FREQUENCY IN MHz | MFGR. PART No. | CTS KNIGHTS PART No. | CHANNEL |
|--------------|--------------------------|------------------------------|--------------------------|---------------------|----------|--------------------------|----------------|----------------------|---------|
| X801 X901 | 11.0500 10.5950 | YEXLHC18U016 YEXLHC18U017 | CA90W11050 CB75W10595 | Rec Osc Xmit osc | X902 | 10.2400 | YEXLHC18U015 | | PLL |

MISCELLANEOUS

| ITEM No. | PART NAME | PART No. | NOTES |
|----------|-----------|--------------|--------------------------------------|
| CF151 | Filter | YEIN09N5004 | 10.7MHz |
| CF152 | Filter | YEIN09N5004 | 10.7MHz |
| CF801 | Filter | YEIC07P2005A | 455kHz |
| CF901 | Filter | EFC527MT1 | 27MHz |
| CF902 | Filter | YEIN09N50040 | 27MHz |
| M80 | Tuner | YEAU01056 | AM/FM |
| M801 | Meter | YEAU01003 | S/RF |
| SW51 | Switch | YEAS07042 | DX/LOCAL |
| SW52 | Switch | YEAS07042 | AM/FM |
| SW701 | Switch | | Power (Part of Volume Control) |
| SW802 | Switch | | Delta Tune (Part of Squelch Control) |
| SW803 | Switch | YEAS09061 | CB/Radio |
| SW904 | Switch | YEAS09056 | Monitor |
| SW905 | Switch | YEAS10003 | CB Channel Selector |

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

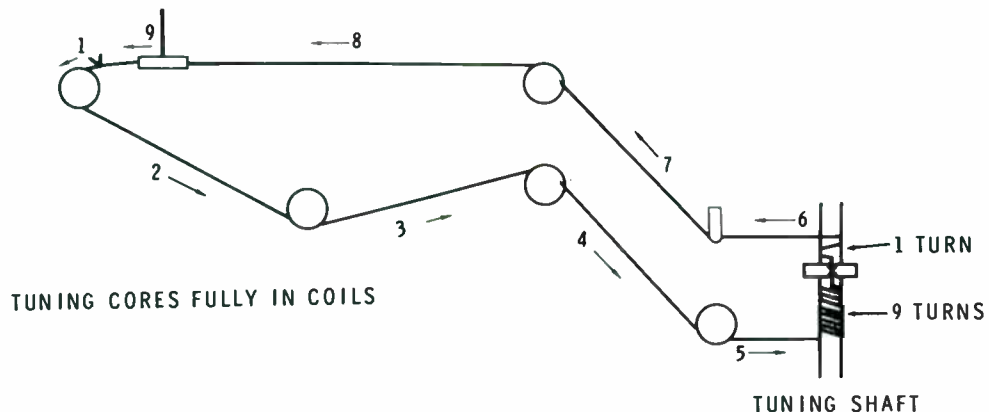
| ITEM | PART No. | ITEM | PART No. |
|---------------------|-----------|--------------------------------|-----------|
| Escutcheon Assembly | YEF02378 | Knob, Squelch | YEFE07077 |
| Cover, Top & Bottom | YEFA03215 | Knob, Delta Tune | YEFE08071 |
| Panel, Front | YEFA07019 | Knob, AM-FM | YEFE17047 |
| Panel, Rear | YEFA08019 | Knob, Tuning & Volume Control | YEFE07063 |
| Dial Pointer | YEFH01145 | Knob, Tone & Balance | YEFE08057 |
| Knob, CB Channel | YEFE17048 | Push Button, CB/Radio-DX/LOCAL | YEFE10189 |

WIRING DATA

| | |
|--------------------------------|---|
| General-use Hook-up Wire | Use BELDEN No. 8530 (Solid) Available in 13 Colors 8524 (Stranded) Available in 13 Colors |
| Shielded Antenna Lead | Use BELDEN No. 8214 Lowest-loss (RG-8/U Type) 8237 Low-loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U) |
| Coiled Microphone Cable | Use BELDEN No. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene 8491 4-Conductor (2 shielded, 2 unshielded) Neoprene |
| Bonding Strap | Use BELDEN No. 8661 (3/8 inch) |

DIAL CORD STRINGING

TOP VIEW



FRONT



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



MODEL TP-9005G

CLEANING LUBRICATING HEAD DEMAGNETIZING

Refer to
"General Servicing Information"
on page 4.

PIONEER MODELS TP-7005G/-9005G

ADJUSTMENTS

| ADJUST | REMARKS |
|--------------|---|
| Head Azimuth | Play a test cartridge and adjust Screw 3 for maximum on meter across output. |
| Head Height | Play a test cartridge, follow instructions with cartridge, and adjust Nut 11 for proper response. |

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

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7AL1026

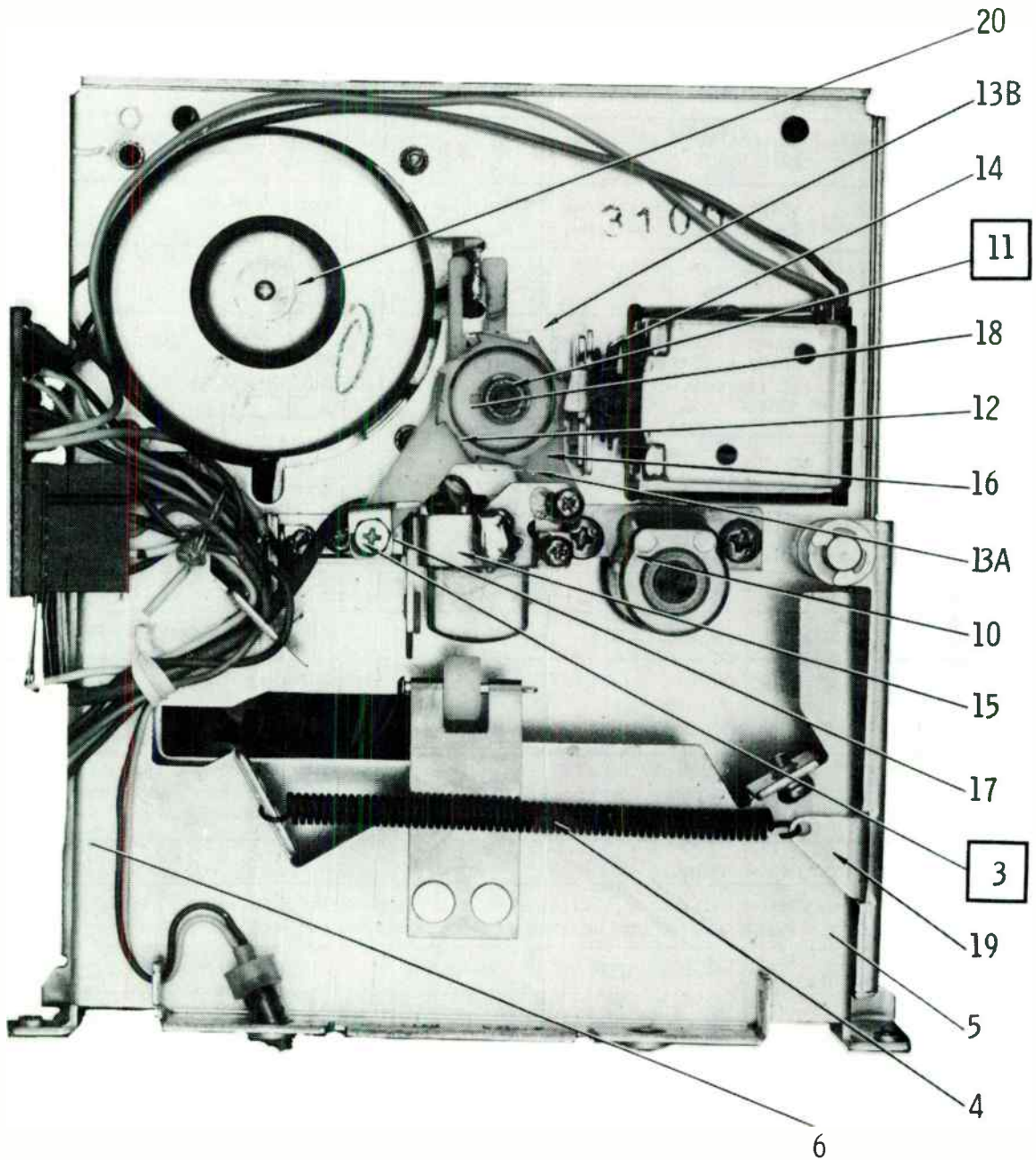
TROUBLE CHART

| SYMPTOM | REMARKS |
|---------------------------------------|--|
| Capstan does not rotate. | Belt 1 dirty, worn, or broken. Assembly 10 binding. Motor defective or not supplied with power. |
| Track-shift mechanism inoperative | Switch S7 dirty. Cam 12 binding or worn. Pawls 13A and 13B worn. Spring 14 weak or broken. Assembly 16 binding. Solenoid S0 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. |
| Tape play intermittent or inoperative | Guide 6 worn or out of place. Detent 5 worn or binding. Spring 4 weak or out of place. Cartridge binding or defective. |

MECHANICAL PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|----------|----------|--------------------------------|----------|-------------|---------------------------|
| 1* | CNT-032* | Flywheel Drive Belt* | 13B | (1) | Pull Pawl |
| 3 | B11-678 | Azimuth Screw | 14 | B33-736 | Solenoid Spring |
| 4 | CBH-007 | Cartridge Detent Spring | 15 | CNC-030 | Head Holder |
| 5 | N92-609 | Cartridge Detent (Roller) | 16 | CNV-222 | Head Base (Assembly) |
| 6 | CNM-312 | Cartridge Guide (Sheet) | 17 | CBH-010 | Azimuth Spring |
| 7 | CBL-096 | Flywheel Spring | 18 | CBH-008 | Head Lift Spring |
| 8 | B23-657 | Nylon Washer (Bearing) | 19 | CXB-179 (2) | Cartridge Detent Arm Unit |
| 9 | CNR-002 | Flywheel | 20 | CLA-431 | Motor Pulley |
| 10 | CNR-003 | Flywheel Bearing Assembly | | CLA-432 (3) | Motor Pulley |
| 11 | B71-673 | Height Nut | | CLA-433 (3) | Motor Pulley |
| 12 | CNT-033 | Cam | | CLA-434 (3) | Motor Pulley |
| 13 | CXA-801 | Solenoid Lever Unit (Assembly) | | CLA-435 (3) | Motor Pulley |
| 13A | (1) | Push Pawl | | | |

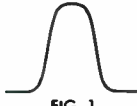

- (1) Part of Assembly 13.
 (2) Includes Roller 5.
 (3) Used in some versions.



TAPE DECK-TOP VIEW

ALIGNMENT INSTRUCTIONS

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

GC ELECTRONICS:  FIG. 1  FIG. 2

ALL.....5000,8277,9089

PUSH-BUTTON ADJUSTMENT

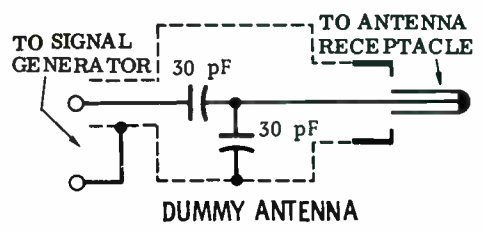
1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

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 TP4. | 455kHz 400-Hz mod. | High freq end stop | T2 | Adjust for maximum. |
| Thru dummy antenna to antenna input. | 1615kHz | " | TC5, TC4, TC1 | " |

With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust TC1 for maximum output. Antenna adjustment is located to right of tape compartment through tape door.



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

High side of generator thru .001uF to TP4 (L2-Set at factory, do not adjust)

| GENERATOR FREQUENCY | RADIO DIAL SETTING | INDICATOR | ADJUST | REMARKS |
|------------------------|---------------------------|---|--------|---|
| 10.7MHz Unmodulated | Point of non-interference | DC probe of VTVM to TP5. | (1) T1 | Adjust for maximum. |
| " | " | DC probe of VTVM to TP2, low side to TP3. | L3 | Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting. |

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 TP5. | TC3, TC2, TC1 | Adjust for maximum. |

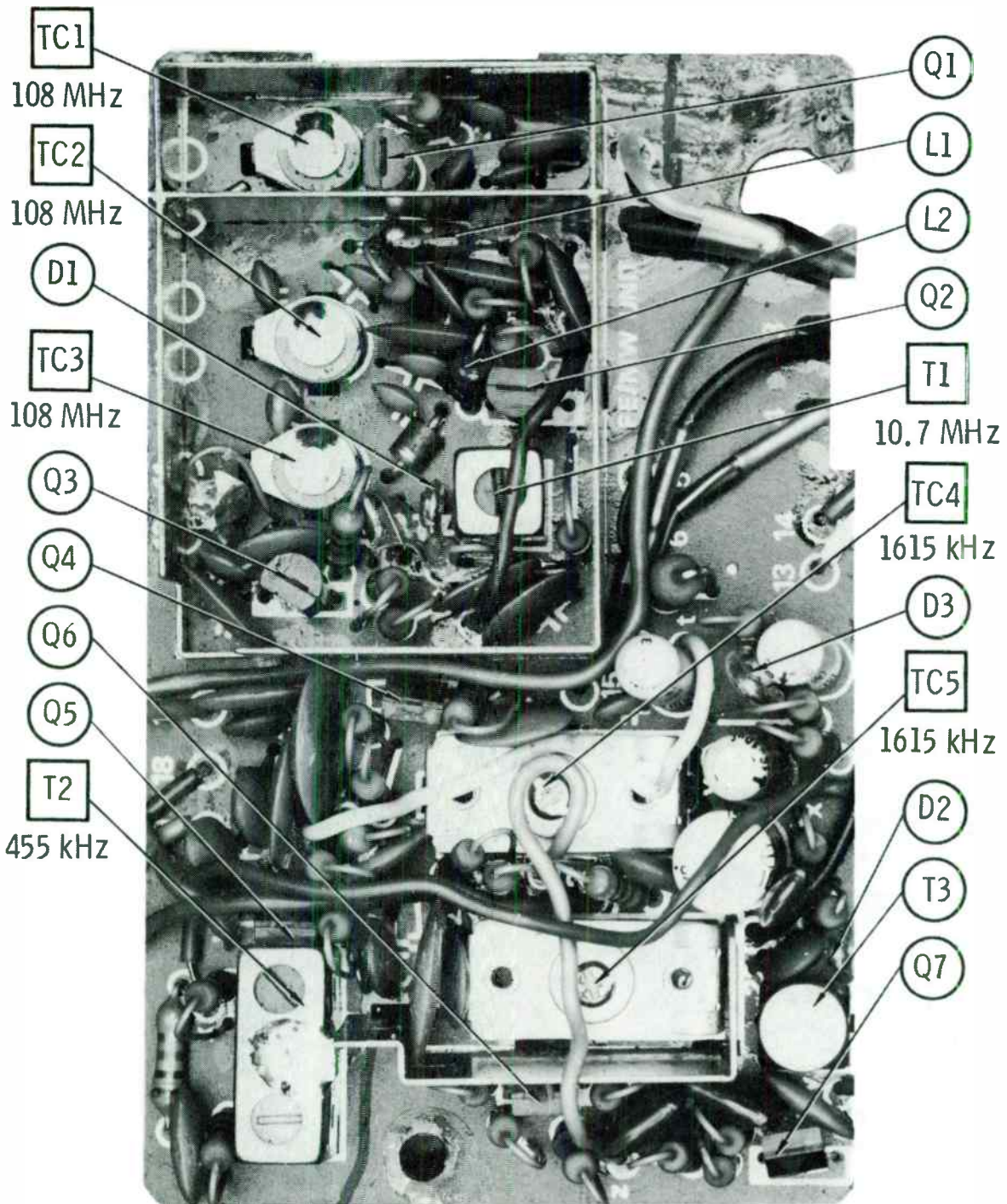
(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

FM STEREO ALIGNMENT

Ground TP5.

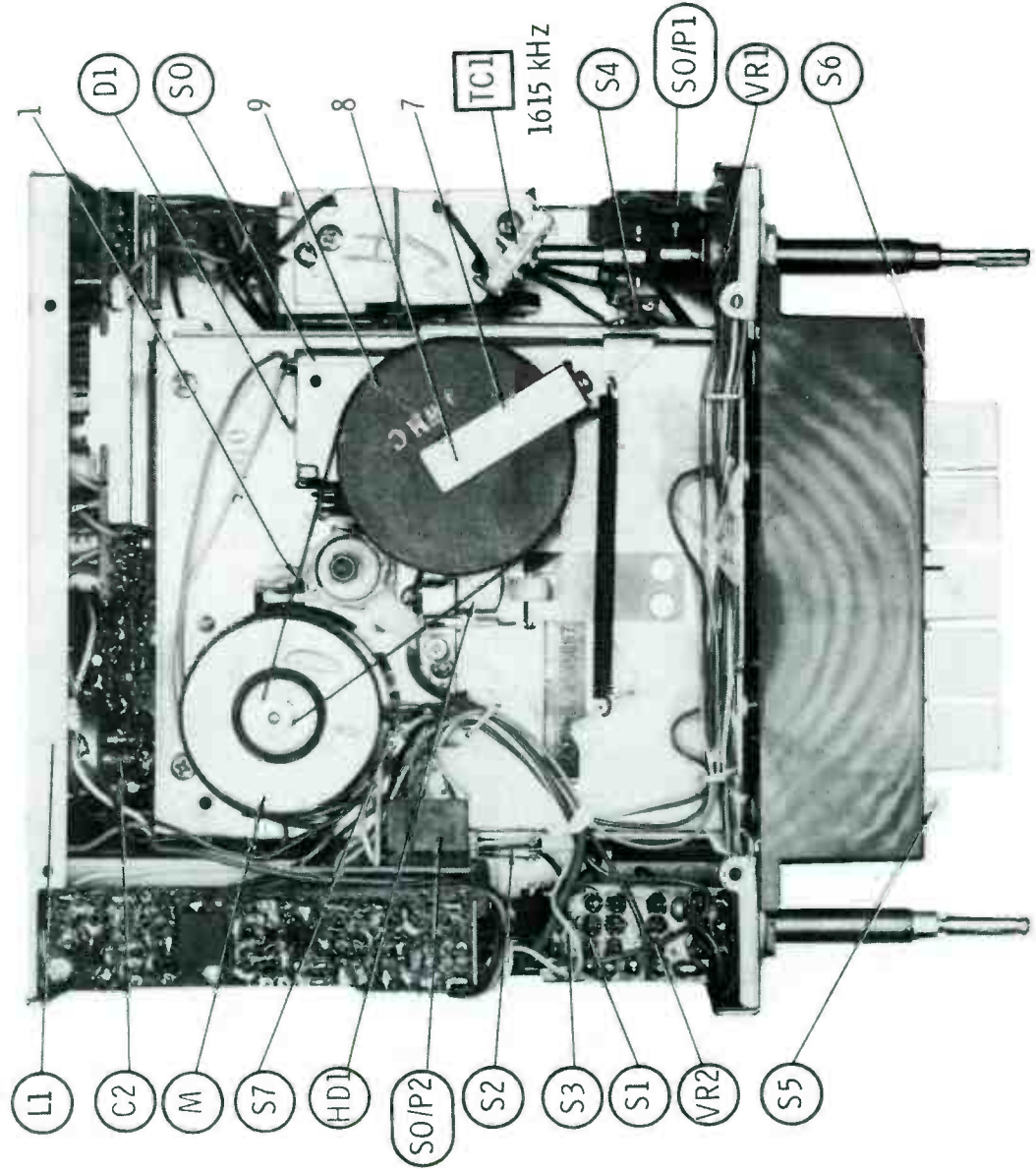
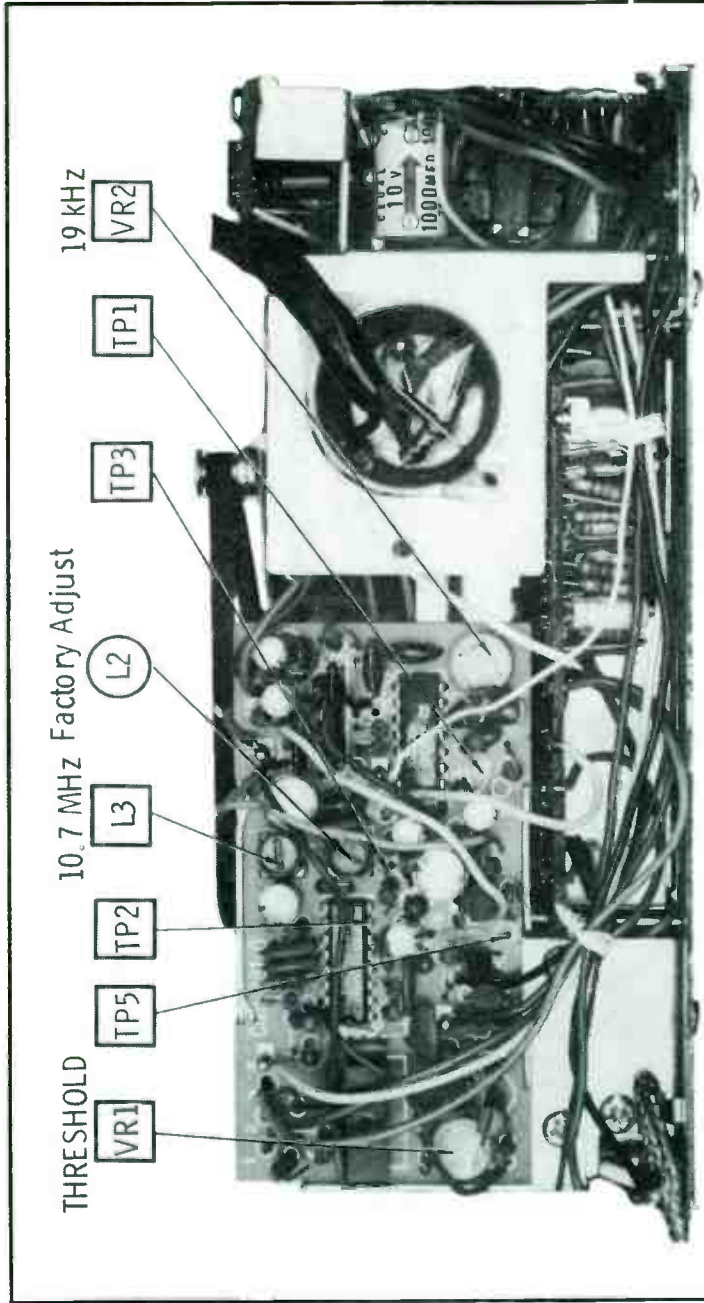
| GENERATOR FREQUENCY | INDICATOR | ADJUST | REMARKS |
|---------------------|-----------------------------------|--------|------------------------------|
| | Connect frequency counter to TP1. | VR2 | Adjust for 19kHz \pm 20Hz. |

Tune receiver for a stereo signal. Adjust VR1 until stereo indicator turns on.

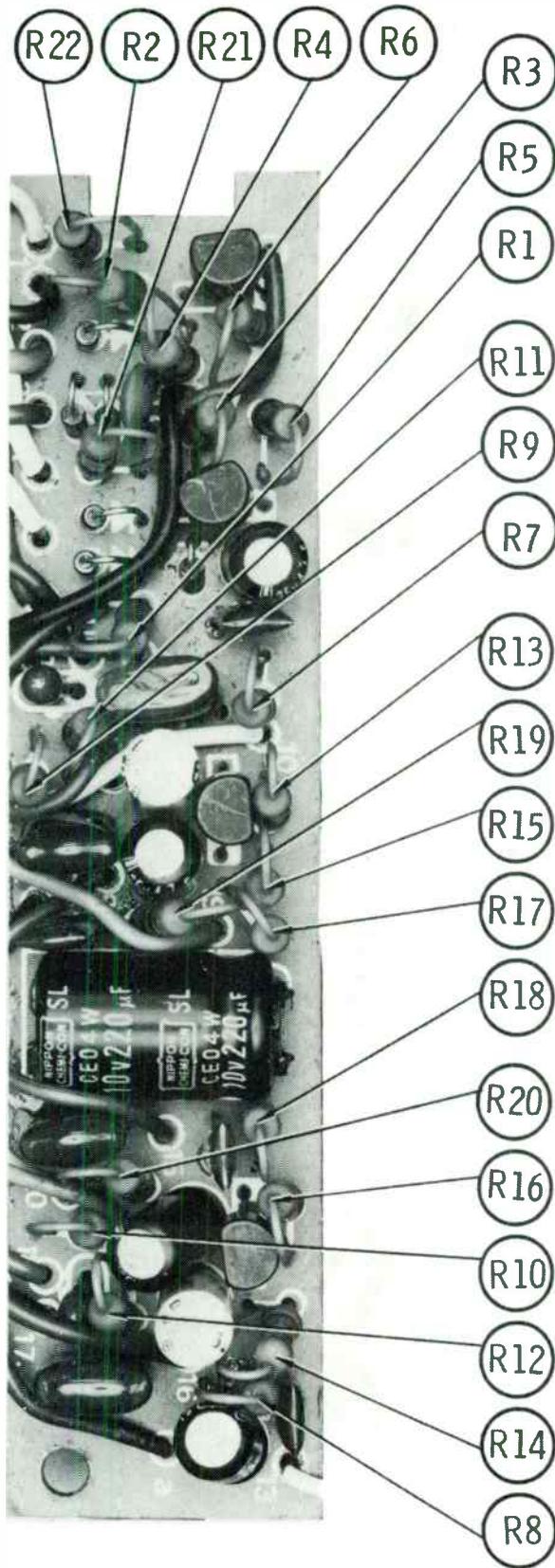


PIONEER MODELS TP-7005G/-9005G

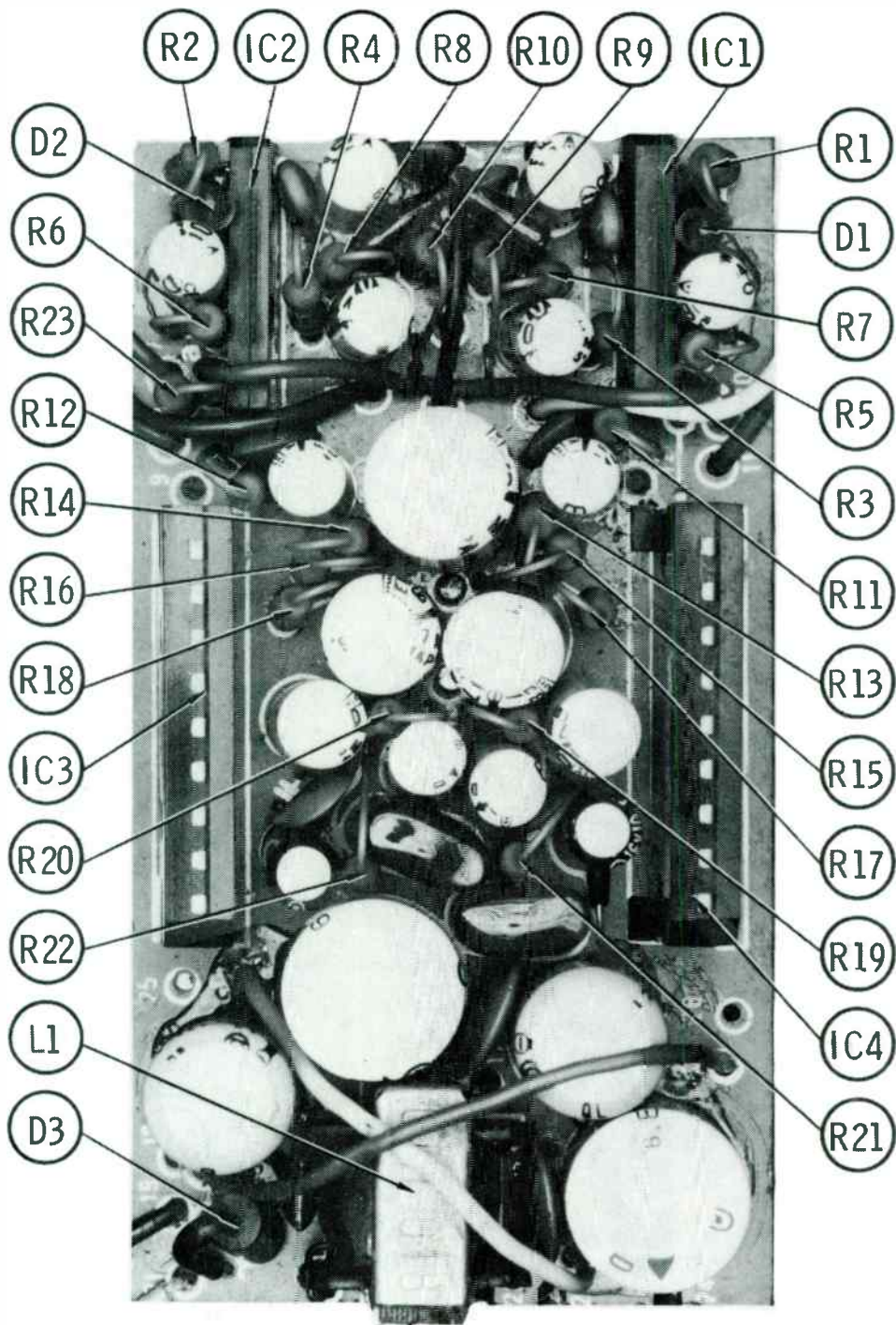
AM/FM BOARD



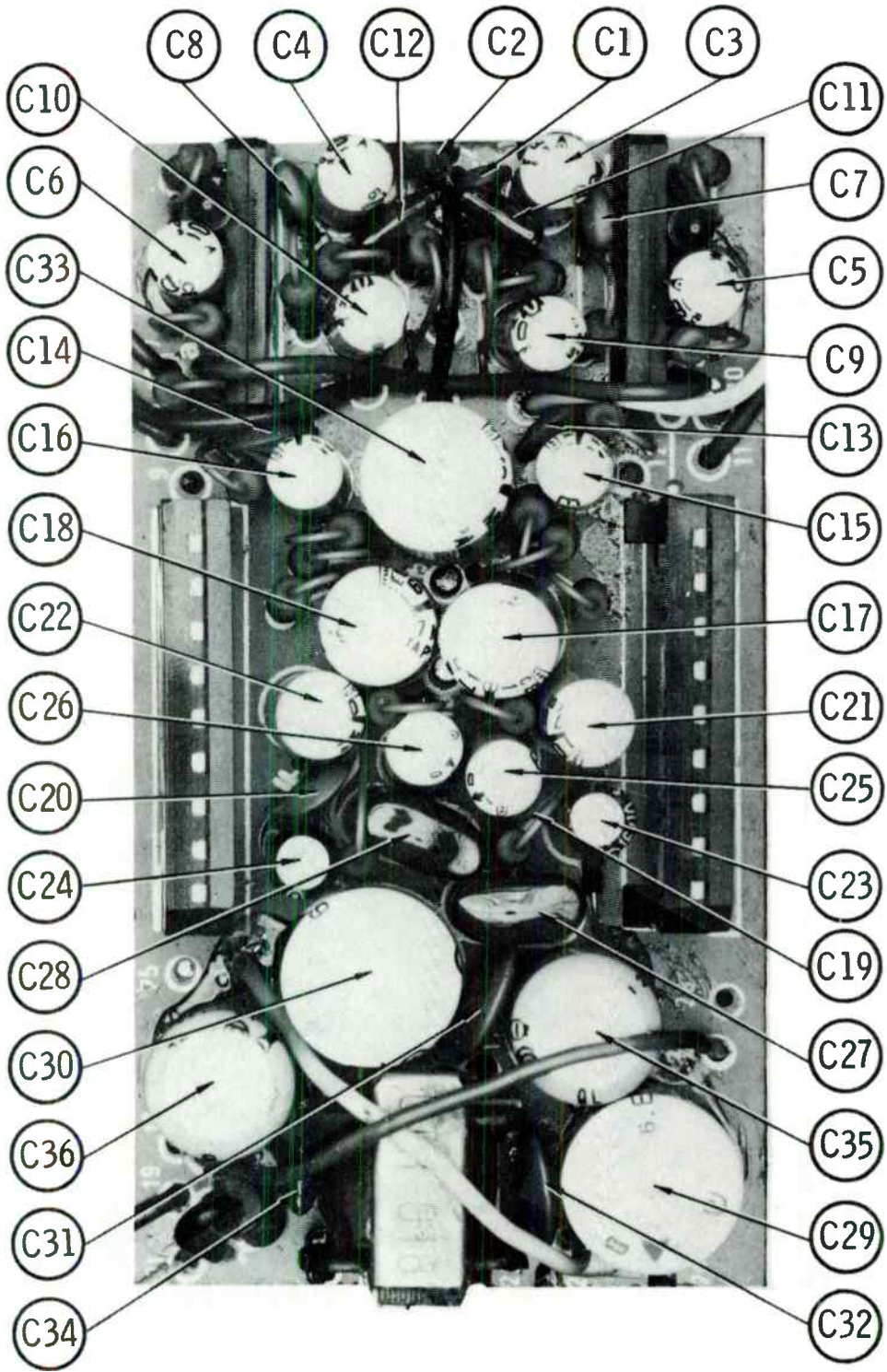
CHASSIS REAR/TOP VIEW



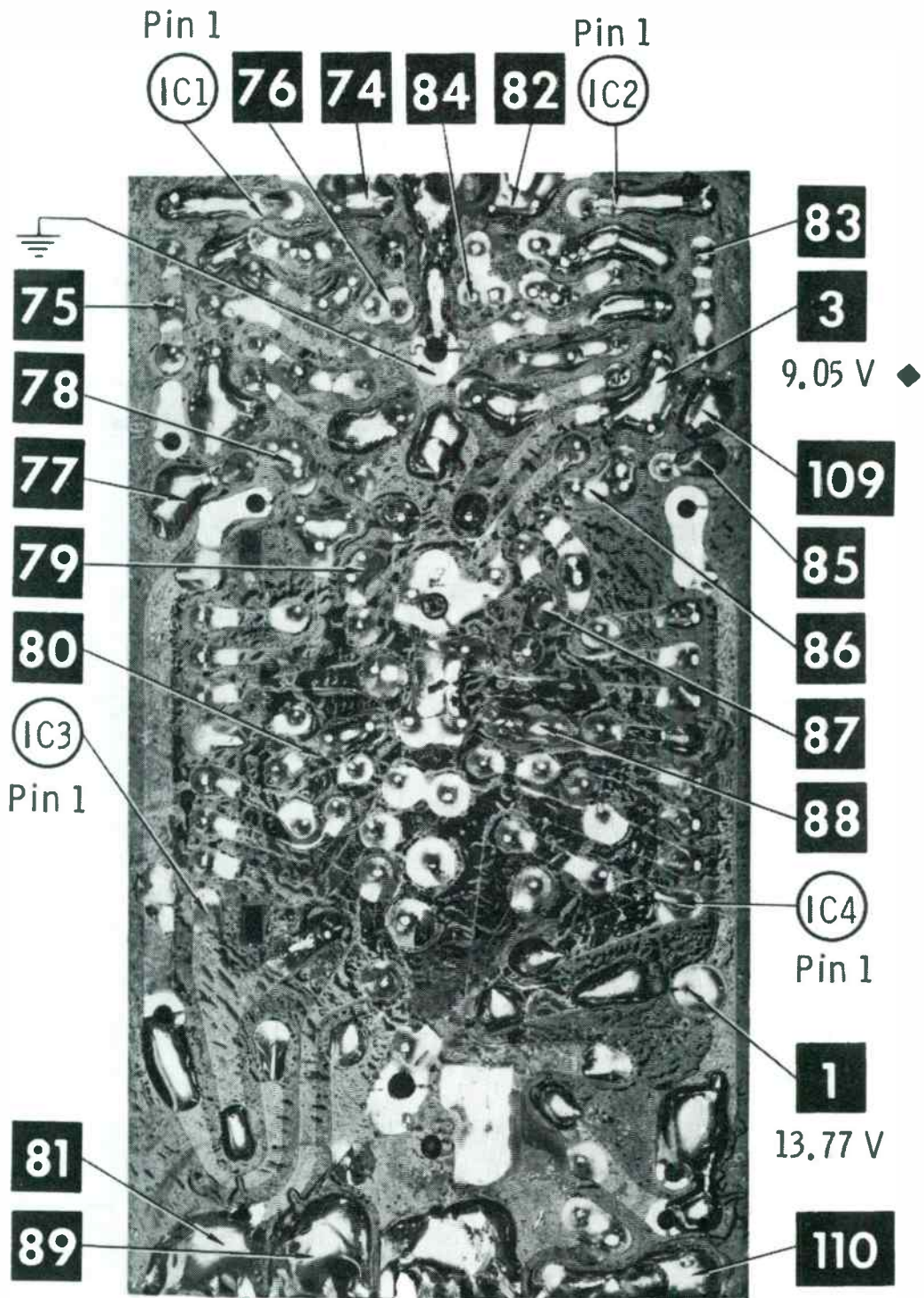
MAIN CONTROL BOARD



AUDIO BOARD

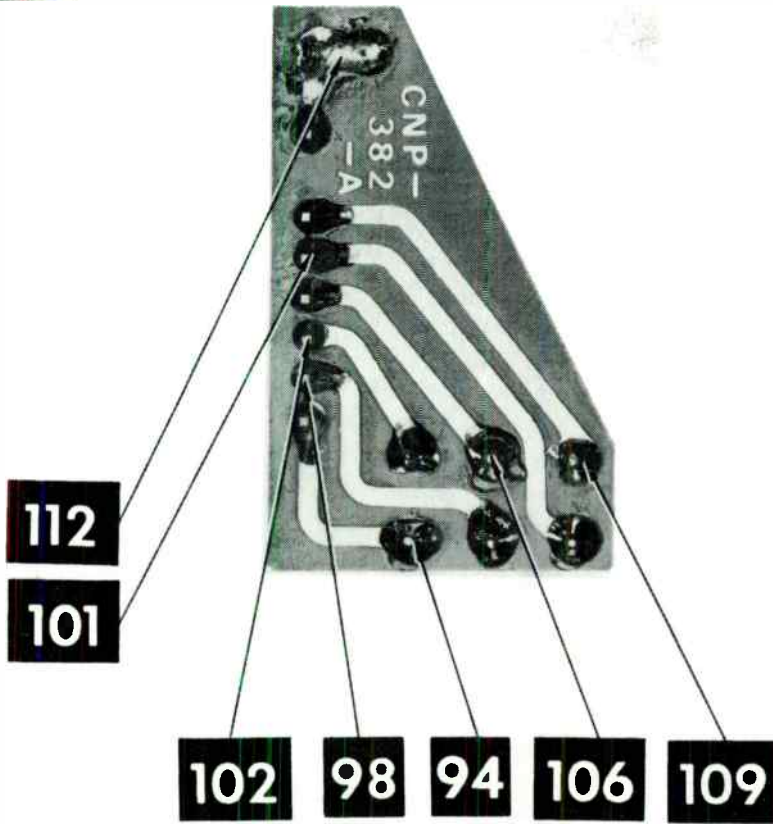


AUDIO BOARD

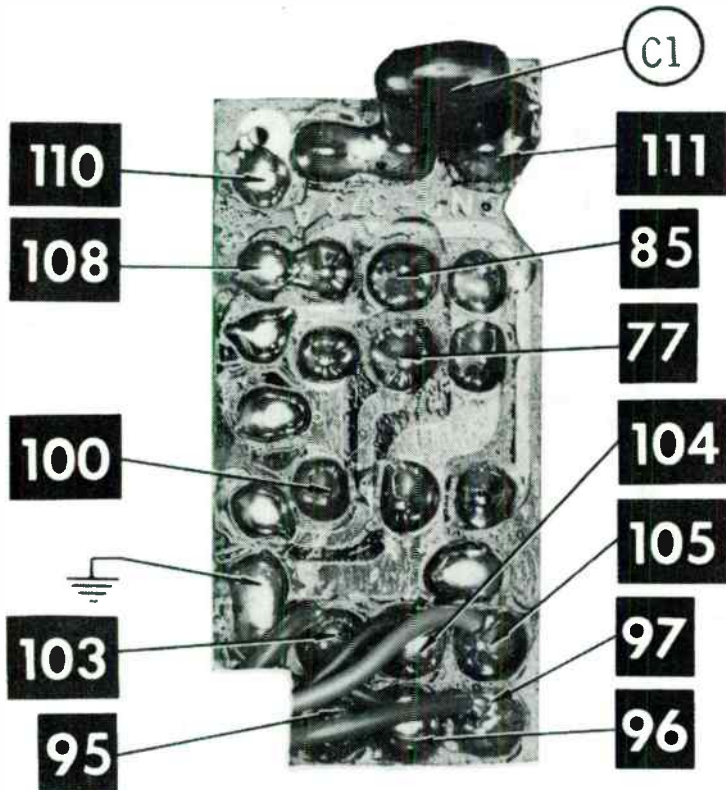


♦ TAPE

AUDIO BOARD

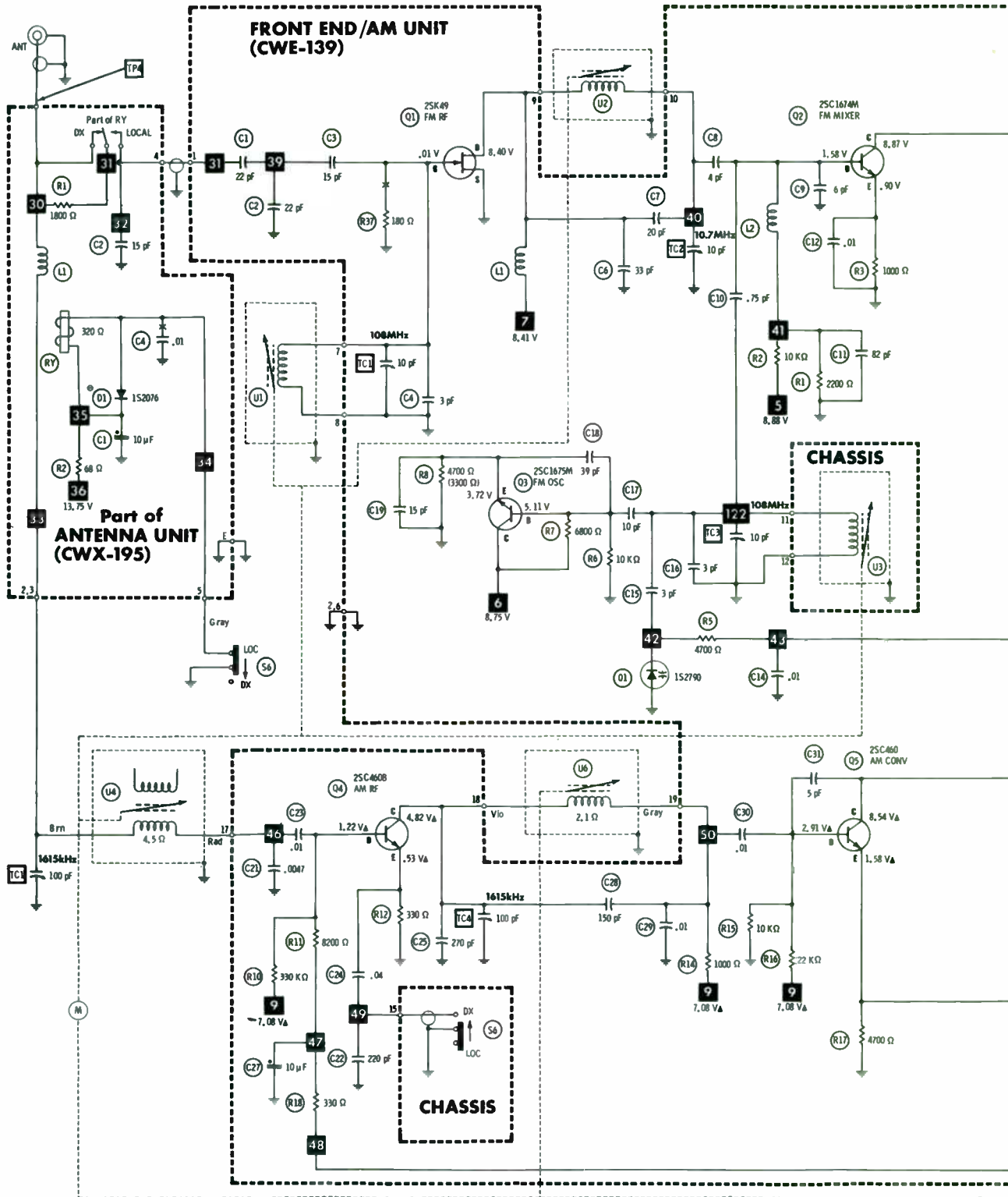


TREBLE BOARD



VOLUME CONTROL BOARD

NOTE: DEMAGNETIZE HEADS AFTER SERVICING



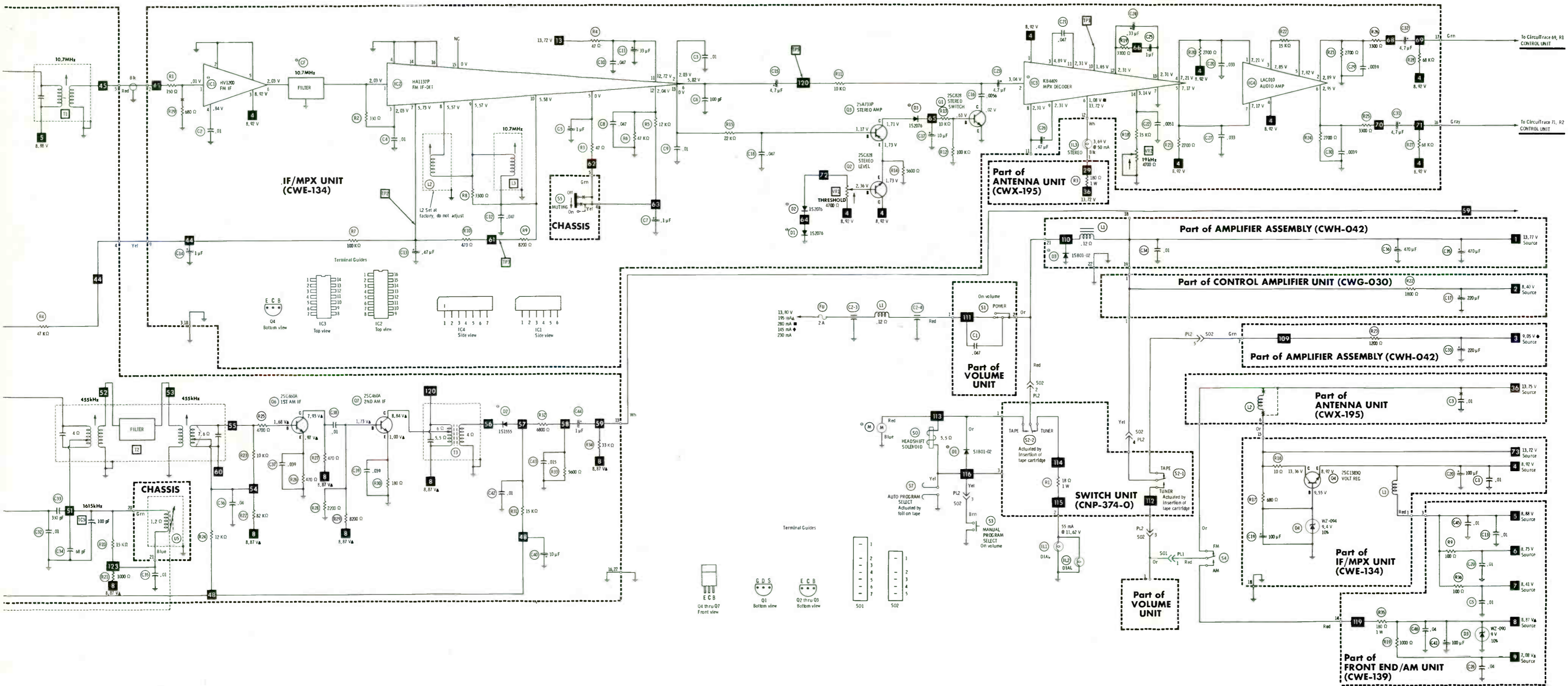
- x— Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ⊞ Chassis
- ▽ Common tie point

Measurements with switching as shown unless noted:
 ■ FM Stereo signal ♦ Tape play ▲ AM
 ★ Record, dolby on ● Record

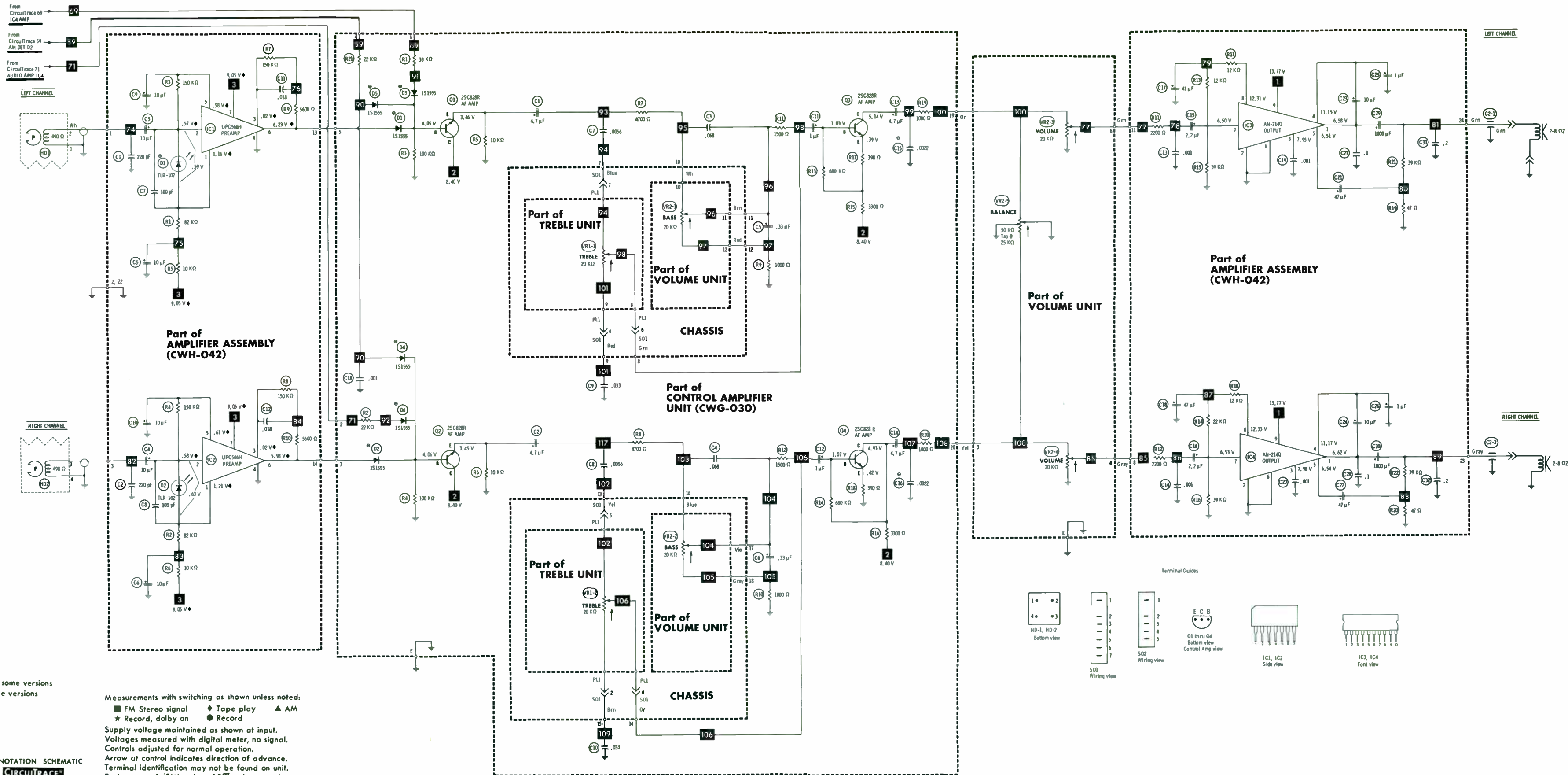
Supply voltage maintained as shown of input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow of control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 10% unless noted.
 Value in () used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

A PHOTOFAC STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE

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NOTE: DEMAGNETIZE HEADS AFTER SERVICING



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

Measurements with switching as shown unless noted:
 ■ FM Stereo signal ⊙ Tape play ▲ AM
 ★ Record, dolby on ⊛ Record

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

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 WITH CIRCUITRACE
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PARTS LIST AND DESCRIPTION

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

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

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

SEMICONDUCTORS (Select replacement transistor for best results)

| ITEM No. | TYPE No. | MFR. PART No. | REPLACEMENT DATA | | | | | | | |
|----------------------|------------|---------------|---------------------------|---------------------|------------------|-------------------|-------------------|--------------|------------------|-------------------|
| | | | GENERAL ELECTRIC PART No. | IR WORKMAN PART No. | MALLORY PART No. | MOTOROLA PART No. | RAYTHEON PART No. | RCA PART No. | SPRAGUE PART No. | SYLVANIA PART No. |
| AM FM TUNER | | | | | | | | | | |
| D1 | 1S2790 | G01-406-A | GE-90 | D201 | | HEPR2503 | RE 195 | SK3126 | RT-262 | |
| 02 | 1S1555 | G01-803-A | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| | 1S2076 | G00-012-A(1) | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| D3 | WZ090 | G01-036-G | GEZD-9.1 | | ZB9.1B | | | | RT-240 | ECG139 |
| Q1 | 2SK49 | G08-007-B | GE-FET-2 | FE-100 | PTC161 | HEPF0021 | RE 45 | SK3116 | RT-175 | ECG312 |
| Q2 | 2SC1674M | G05-065-A | GE-61 | TR-95 * | PTC132 * | HEPS0010 * | RE 9 * | SK3018 * | RT-308 | ECG229 * |
| Q3 | 2SC1675M | G05-066-A | GE-213 | TR-33 | PTC139 * | HEPS0025 * | RE 13 * | SK3124 | RT-308 | ECG229 * |
| Q4 | 2SC460B | G05-003-B | GE-61 * | (IR)2SC460B | PTC136 * | HEPS0014 * | RE 9 | SK3018 * | RT-134 | ECG107 |
| Q5 | 2SC460B | G05-003-B | GE-61 * | (IR)2SC460B | PTC136 * | HEPS0014 * | RE 9 | SK3018 * | RT-134 | ECG107 |
| Q6 | 2SC460A | G05-003-A | GE-61 * | (IR)2SC460B | PTC136 * | HEPS0014 * | RE 9 | SK3018 * | RT-134 | ECG107 |
| Q7 | 2SC460A | G05-003-A | GE-61 * | (IR)2SC460B | PTC136 * | HEPS0014 * | RE 9 | SK3018 * | RT-134 | ECG107 |
| ANT BOARD | | | | | | | | | | |
| 01 | 1S2076 | G00-012-A | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| | 1S1555 | G01-803-A(1) | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| AUDIO BOARD | | | | | | | | | | |
| 03 | S1B01-02 | G00-534-B | GE-504A | 5A4D | PTC201 | HEPR0052 | RE 49 | SK3030 | RT-213 | ECG116 |
| IC1 | 1S1886 | G00-551-A(1) | GE-504A | 5A40 | PTC201 | HEPR0052 | RE 49 | SK3030 | RT-213 | ECG116 |
| | uPC566H -B | G09-029-B | | | | | RE 327-IC | | | ECG1052 |
| | TA7063P -B | G09-007-B(1) | GEIC-94 | WEP943 | | | RE 329-IC | | | ECG1103 |
| IC2 | uPC566H -B | G09-029-B | | | | | RE 327-IC | | | ECG1052 |
| | TA7063P -B | G09-007-B(1) | GEIC-49 | WEP943 | | | RE 329-IC | | | ECG1103 |
| IC3 | AN-214Q | G09-013-A | GEIC-49 | WEP937 | PTC757 | | RE 338-IC | | | ECG1058 |
| IC4 | AN-214Q | G09-013-A | GEIC-49 | WEP937 | PTC757 | | RE 338-IC | | | ECG1058 |
| CONTROL BOARD | | | | | | | | | | |
| 01 | 1S1555 | G01-803-A | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| | 1S2076 | G00-012-A(1) | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| D2 | 1S1555 | G01-803-A | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| | 1S2076 | G00-012-A(1) | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| 03 | 1S1555 | G01-803-A | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| | 1S2076 | G00-012-A(1) | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| 04 | 1S1555 | G01-803-A | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| | 1S2076 | G00-012-A(1) | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| 05 | 1S1555 | G01-803-A | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| | 1S2076 | G00-012-A(1) | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| 06 | 1S1555 | G01-803-A | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| | 1S2076 | G00-012-A(1) | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| Q1 | 2SC828R | G05-036-0 | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| Q2 | 2SC828R | G05-036-D | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| Q3 | 2SC828R | G05-036-D | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| Q4 | 2SC828R | G05-036-D | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| IF-MPX BOARD | | | | | | | | | | |
| D1 | 1S2076 | G00-012-A | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| | 1S1555 | G01-803-A(1) | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| D2 | 1S2076 | G00-012-A | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| | 1S1555 | G01-803-A(1) | GE-300 | 0200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| 03 | 1S2076 | G00-012-A | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| | 1S1555 | G01-803-A(1) | GE-300 | D200 | PTC214 | HEPR0602 | RE 52 | SK3100 | RT-218 | ECG177 |
| D4 | WZ-094 | G01-036-H | GEZD-9.1 | Z1209 | ZB9.1A | HEPZ0412 | RE 114 | SK3060 | RT-240 | ECG139 |
| IC1 | LV1200(13) | | | | | | | | | |
| | H801177 | CWW-010 | | | | | | | | |
| | (13) | (1)(12) | | | | | | | | |
| IC2 | HA1137P | G09-018-A | | | | | | | | |
| IC3 | KB4409 | G09-034-A | | | | | | | | |
| IC4 | LAC010 | G09-508-A | | | | | | | | |
| | H801147 | G09-505-A(1) | | | | | | | | |
| Q1 | 2SC828P | G05-061-B | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| Q2 | 2SC828P | G05-061-B | GE-61 * | (IR)2SC828A | PTC121 * | HEPS0015 * | RE 192 | SK3122 | RT-302 | ECG199 |
| Q3 | 2SA733P | G03-017-B | GE-65 | TR-31 | PTC103 | HEPS5022 | RE 26 | SK3025 | RT-303 | ECG159 |
| Q4 | 2SC1383Q | G05-415-B | GE-47 | TR-65 * | PTC143 | HEPS3001 * | RE 220 | SK3024 * | RT-302 | ECG293 |

PIONEER MODELS TP-7005G/-9005G

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.

SEMICONDUCTORS (Select replacement transistor for best results) (cont)

| ITEM No. | TYPE No. | MFR. PART No. | REPLACEMENT DATA | | | | | | | |
|----------|-------------------------------|---|-------------------------------|----------------------|----------------------------|----------------------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| | | | GENERAL ELECTRIC PART No. | IR WORKMAN PART No. | MALLORY PART No. | MOTOROLA PART No. | RAYTHEON PART No. | RCA PART No. | SPRAGUE PART No. | SYLVANIA PART No. |
| | | | CHASSIS | | | | | | | |
| D1 | 1S1801-02 FR2-02 1S1886 | G00-534-B G00-535-B(1) G00-551-A(1) | GE-504A GE-504A GE-504A | 5A4D 5A4D 5A4D | PTC201 PTC201 PTC201 | HEPR0052 HEPR0052 HEPR0052 | RE 49 RE 49 RE 49 | SK3030 SK3030 SK3030 | RT-213 RT-213 RT-213 | ECG116 ECG116 ECG116 |

* Lead configuration may vary from original.

(1) Used in some versions.

(12) Includes ceramic filter.

(13) Includes IC only.

ELECTROLYTIC CAPACITORS

| ITEM No. | RATING | REPLACEMENT DATA | | | | |
|----------------------|----------|------------------|---------------------------|------------------|------------------|--------------|
| | | MFR. PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| | | | | | Q-LINE | GENERAL LINE |
| AM FM TUNER | | | | | | |
| C27 | 10 16V | CEA100P16 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C40 | 10 16V | CEA100P16 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C41 | 100 10V | CEA101P10 | PC100-10 | VTT100E10 | QV1-93 | EV-1130 |
| C44 | 1 50V | CEA010P50 | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| ANT BOARD | | | | | | |
| C1 | 10 16V | CEA100P16 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| AUDIO BOARD | | | | | | |
| C3 | 10 16V | CEA100P16 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C4 | 10 16V | CEA100P16 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C5 | 10 16V | CEA100P16 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C6 | 10 16V | CEA100P16 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C9 | 10 16V | CEA100P16 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C10 | 10 16V | CEA100P16 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C15 | 2.2 50V | CEA2R2P50 | PC2-100 | VTT2R2A50 | QV1-19 | EV-1517 |
| C16 | 2.2 50V | CEA2R2P50 | PC2-100 | VTT2R2A50 | QV1-19 | EV-1517 |
| C17 | 47 16V | CEA470P16 | PC50-16 | VTT47D16 | QV1-73 | EV-1226 |
| C18 | 47 16V | CEA470P16 | PC50-16 | VTT47D16 | QV1-73 | EV-1226 |
| C21 | 47 10V | CEA470P10 | PC50-16 | VTT47D16 | QV1-73 | EV-1226 |
| C22 | 47 10V | CEA470P10 | PC50-16 | VTT47D16 | QV1-73 | EV-1226 |
| C23 | 10 16V | CEA100P16 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C24 | 10 16V | CEA100P16 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C25 | 1 50V | CEA010P50 | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C26 | 1 50V | CEA010P50 | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C29 | 1000 10V | CCH-022 | PC1000-16 | VTT1000L10 | QV1-179 | EV-1160 |
| C30 | 1000 10V | CCH-022 | PC1000-16 | VTT1000L10 | QV1-179 | EV-1160 |
| C33 | 220 16V | CEA221P16 | PC250-25 | VTT220H16 | QV1-117 | EV-1240 |
| C35 | 470 16V | CCH-020 | PC500-16 | VTT470K16 | QV1-151 | EV-1250 |
| C36 | 470 16V | CCH-020 | PC500-16 | VTT470K16 | QV1-151 | EV-1250 |
| CONTROL BOARD | | | | | | |
| C1 | 4.7 35V | CEA4R7P35 | PC5-50 | VTT4R7B50 | QV1-29 | EV-1519 |
| C2 | 4.7 35V | CEA4R7P35 | PC5-50 | VTT4R7B50 | QV1-29 | EV-1519 |
| C5 | .33 35V | CSZAR33M35 | | TDC334M050EL | QDT1-14 | SD50-R339 |
| C6 | .33 35V | CSZAR33M35 | | TDC334M050EL | QDT1-14 | SD50-R339 |
| C11 | 1 50V | CEA010P50 | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C12 | 1 50V | CEA010P50 | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C13 | 4.7 35V | CEA4R7P35 | PC5-50 | VTT4R7B50 | QV1-29 | EV-1519 |
| C14 | 4.7 35V | CEA4R7P35 | PC5-50 | VTT4R7B50 | QV1-29 | EV-1519 |
| C17 | 220 10V | CEA221P10 | PC250-10 | VTT220F10 | QV1-115 | EV-1140 |
| IF-MPX BOARD | | | | | | |
| C5 | 1 25V | CSZA010M25 | | TDC105M035EL | | SD35-19 |
| C7 | .1 35V | CSZA0R1M35 | | TDC104M050EL | QDT1-2 | SD50-R109 |
| C11 | 33 16V | CEA330P16 | PC30-25 | VTT33D25 | QV1-63 | EV-1325 |
| C13 | .47 35V | CSZAR47M35 | | TDC474M050EL | QDT1-19 | SD50-R479 |
| C14 | 1 50V | CEA010P50 | PC1-50 | VTT1A50 | QV1-11 | EV-1615 |
| C15 | 4.7 35V | CEA4R7P35 | PC5-50 | VTT4R7B50 | QV1-29 | EV-1519 |
| C17 | 10 10V | CSZA100M10 | PC10-25 | VTT10B25 | QV1-41 | EV-1222 |
| C19 | 100 10V | CEA101P10 | PC100-10 | VTT100E10 | QV1-93 | EV-1130 |
| C20 | 100 10V | CEA101P10 | PC100-10 | VTT100E10 | QV1-93 | EV-1130 |
| C23 | 4.7 35V | CEA4R7P35 | PC5-50 | VTT4R7B50 | QV1-29 | EV-1519 |
| C24 | .33 35V | CSZAR33M35 | | TDC334M050EL | QDT1-14 | SD50-R339 |
| C25 | 1 25V | CEA010M25 | | TDC105M035EL | | SD35-19 |
| C26 | .47 35V | CEA4R7M35 | | TDC474M050EL | QDT1-19 | SD50-R479 |
| C31 | 4.7 35V | CEA4R7P35 | PC5-50 | VTT4R7B50 | QV1-29 | EV-1519 |
| C32 | 4.7 35V | CEA4R7P35 | PC5-50 | VTT4R7B50 | QV1-29 | EV-1519 |

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 |
| AM FM TUNER | | | | | | | |
| C1 | 22 | | DTZ-22 | NP022 | CN0422 | | 10TCC-Q22 |
| C2 | 22 | | DTZ-22 | NP022 | CN0422 | | 10TCC-Q22 |
| C3 | 15 | | DTZ-15 | NP015 | CN0415 | | 10TCC-Q15 |
| C4 | 3 | | DTZ-3R3 | NP03P3 | CN0533 | | 10TCC-V33 |
| C5 | .01 25V | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C6 | 33 | | DTZ-33 | NP033 | CN0433 | | 10TCC-Q33 |
| C7 | 20 | | DTZ-20 | NP020 | CN0420 | | 10TCC-Q20 |
| C8 | 4 | CCDSL040D50 | | | | | |
| C9 | 6 | CCDSL060D50 | | | | | |
| C10 | .75 | CGBR75J500 | | | | | |
| C11 | 82 5% | | DTZ-82 | NP082 | CN0482 | | 10TCC-Q82 |
| C12 | .01 25V | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C13 | .01 25V | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C14 | .01 25V | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C15 | 3 N330 | CCDTJ030C50 | | | * | | 10TCS-V30 |
| C16 | 3 N330 | CCDSJ030C50 | | | * | | 10TCS-V30 |
| C17 | 10 N220 | CCDRH100F50 | | | * | | 10TCR-Q10 |
| C18 | 39 5% N220 | CCDRH390J50 | | | * | | 10TCR-Q39 |
| C19 | 15 N470 | CCDTH150J50 | | | * | | 10TCT-Q15 |
| C20 | .01 25V | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C21 | .0047 10% | | DD-472 | GP4700 | GP247 | | 5GA-D47 |
| C22 | 220 | | DD-221 | | GP322 | | 10TS-T22 |
| C23 | .01 10% | CCG-019 | | | | | |
| C24 | .04 25V | CKDYF403Z25 | | | | | |
| C25 | 270 10% H330 | CCDS4271K50 | | | * | | 10TCR-T27 |
| C26 | .04 25V | CKDYF403Z25 | | | * | | |
| C28 | 150 10% N150 | CCDRH151K50 | | | | | 10TCP-T15 |
| C29 | .01 10% | CCG-019 | | | | | |
| C30 | .01 10% | CCG-019 | | | | | |
| C31 | 5 | | DTZ-4R7 | NP04P7 | CN0547 | | 10TCC-V47 |
| C32 | .01 10% | CCG-019 | | | * | | 10TCR-T33 |
| C33 | 330 10% N220 | CCDRH331K50 | | | | | 10TS-Q68 |
| C34 | 68 10% | | DD-680 | GP68 | GP468 | | |
| C35 | .01 10% | CCG-019 | | | | | |
| C36 | .04 25V | CKDYF403Z25 | | | | | |
| C37 | .039 | | | | M192P3939R8 | | 192P3939R8 |
| C38 | .01 10% | CCG-019 | | | | | |
| C39 | .039 | | | | M192P3939R8 | | 192P3939R8 |
| C42 | .01 10% | CCG-019 | | | | | |
| C43 | .015 | | | | | | |
| C45 | .01 25V | | DC-103 | WMF1S15 | EFW1A115 | QF1-105 | 1PB-S15 |
| C46 | .04 25V | CKDYF403Z25 | | MGP01 | TA110 | QC2-141 | TG-S10 |
| TC1 | 10 | CCG-008 | | | | | GKB10000 |
| TC2 | 10 | CCG-008 | | | | | GKB10000 |
| TC3 | 10 | CCG-008 | | | | | GKB10000 |
| TC4 | 100 | CCL-024 | | | | | |
| TC5 | 100 | CCL-024 | | | | | |
| ANT BOARD | | | | | | | |
| C2 | 15 | | DTZ-15 | NP015 | CN0415 | | 10TCC-Q15 |
| C3 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C4 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| AUDIO BOARD | | | | | | | |
| C1 | 220 | | DD-221 | | GP322 | | 10TS-T22 |
| C2 | 220 | | DD-221 | | GP322 | | 10TS-T22 |
| C7 | 100 | | DD-101 | GP100 | GP310 | | 10TS-T10 |
| C8 | 100 | | DD-101 | GP100 | GP310 | | 10TS-T10 |
| C11 | .018 10% | | | | M192P1839R8 | | 192P1839R8 |
| C12 | .018 10% | | | | M192P1839R8 | | 192P1839R8 |
| C13 | .001 10% | | DD-102 | | GP210 | | 10TS-D10 |
| C14 | .001 10% | | DD-102 | | GP210 | | 10TS-D10 |
| C19 | .001 10% | | DD-102 | | GP210 | | 10TS-D10 |
| C20 | .001 10% | | DD-102 | | GP210 | | 10TS-D10 |
| C27 | .1 | | | WMF05P1 | EFW05010 | | 431P1049R5 |
| C28 | .1 | | | WMF05P1 | EFW05010 | | 431P1049R5 |
| C31 | .2 | CCG-006 | | | | | |
| C32 | .2 | CCG-006 | | | | | |
| CONTROL BOARD | | | | | | | |
| C3 | .068 10% | | | WMF1S68 | EFW1A168 | QF1-195 | 1PB-S68 |
| C4 | .068 10% | | | WMF1S68 | EFW1A168 | QF1-195 | 1PB-S68 |
| C7 | .0056 10% | | | | M192P5629R8 | | 192P5629R8 |
| C8 | .0056 10% | | | | M192P5629R8 | | 192P5629R8 |
| C9 | .033 10% | | | | M192P3339R8 | | 192P3339R8 |
| C10 | .033 | | | | M192P3339R8 | | 192P3339R8 |
| C15 | .0022 | | | DPMS6D22 | EFW6222 | QF1-1 | 6PS-D22 |
| | .001 | (1) | | DPMS6D1 | EFW1A210 | QF1-1 | 1PB-D10 |
| C16 | .0022 10% | (1) | | DPMS6D22 | EFW6222 | QF1-1 | 6PS-D22 |
| | .001 | | | DPMS6D1 | EFW1A210 | QF1-1 | 1PB-D10 |
| C18 | .001 10% | | DD-102 | | GP210 | | 10TS-D10 |

PIONEER MODELS TP-7005G/-9005G

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

CAPACITORS (cont)

| ITEM No. | RATING | MFR. PART No. | REPLACEMENT DATA | | | | |
|---------------------|-----------|---------------|--------------------|---------------------------|------------------|------------------|--------------|
| | | | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| | | | | | | Q-LINE | GENERAL LINE |
| IF-MPX BOARD | | | | | | | |
| C1 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C2 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C3 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C4 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C6 | 100 | | DD-101 | GP100 | GP310 | | 10TS-T10 |
| C8 | .047 25V | | UK50-503 | | MAG5015 | | |
| C9 | .01 | | DC-103 | MGP01 | TA110 | QC2-141 | TG-S10 |
| C10 | .047 25V | | UK50-503 | | MAG5015 | | |
| C12 | .047 25V | | UK50-503 | | MAG5015 | | |
| C16 | .0056 10% | | | | M192P5629R8 | | 192P5629R8 |
| C18 | .047 25V | | UK50-503 | | MAG5015 | | |
| C21 | .047 10% | | | | EWFTA147 | QF1-171 | 1PB-S47 |
| C22 | 510 5% | | | CD15FD511J03 | SX351 | QW1-43 | MWA-511 |
| C27 | .033 10% | | | | M192P3339R8 | | 192P3339R8 |
| C28 | .033 10% | | | | M192P3339R8 | | 192P3339R8 |
| C29 | .0039 10% | | | | M192P3929R8 | | 192P3929R8 |
| C30 | .0039 10% | | | | M192P3929R8 | | 192P3929R8 |
| CHASSIS | | | | | | | |
| C1 | .047 | | | | EWFTA147 | QF1-171 | 1PB-S47 |
| C2-1 | | (2) | | | | | |
| C2-2 | | (2) | | | | | |
| C2-3 | | (2) | | | | | |
| C2-4 | | (2) | | | | | |
| TC1 | 100pF | CCL-026 | | | | | |

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

(1) Used in some versions.

(2) Part of Feed Through Assembly; Part Number CCL-005.

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

| ITEM No. | FUNCTION | RESIST-ANCE | REPLACEMENT DATA | | | | |
|---------------------|------------------------------------|---------------|------------------|--------------------|--------------------|------------------|--------------|
| | | | MFR. PART No. | CENTRALAB PART No. | CLAROSTAT PART No. | MALLORY PART No. | TRW PART No. |
| IF-MPX BOARD | | | | | | | |
| VR1 | Threshold | 4700 | C92-618 | | | | |
| VR2 | 19kHz | 4700 | C92-618 | | | | |
| CHASSIS | | | | | | | |
| VR1-1 | Treble-Left | 20K | CWX-194 (18) | | | | |
| VR1-2 | Treble-Right | 20K | CCS-117-A(5) | | | | |
| VR2-1 | Bass-Left | 20K | CWX-192(19) | | | | |
| VR2-2 | Bass-Right | 20K | CCS-116-A(5) | | | | |
| VR2-3 | Volume-Left | 20K | | | | | |
| VR2-4 | Volume-Right | 20K | | | | | |
| VR2-5 | Balance | 50K Tap @ 25K | | | | | |
| | Power Switch/Manual Program Switch | | | | | | |

(5) Number on unit.

(18) Includes VR1-1 and VR1-2.

(19) Includes VR2-1, VR2-2, VR2-3, VR2-4, VR2-5, S1, and S3.

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. | |
| AM FM TUNER | | | | | (1) Part of Tuner (M1) |
| L1 | RF Choke (2.7uH) | CTF-039 | | | |
| L2 | RF Choke (2.7uH) | CTF-039 | | | |
| T1 | FM Mixer (10.7MHz) | CTC-043 | | | |
| T2 | AM Conv (455kHz) | CTE-037 | | | |
| T3 | AM IF | CTE-038 | | | |
| ANT BOARD | | | | | |
| L1 | RF Choke | T63-648 | | | |
| L2 | RF Choke | | | | |
| IF-MPX BOARD | | | | | |
| L1 | RF Choke | CTF-016 | | | |
| L2 | FM IF | CTC-056 | | | |
| L3 | FM IF | CTC-055 | | | |
| CHASSIS | | | | | |
| L1 | RF Choke | CTF-003 | | | |
| L11 | FM Antenna | (1) | | | |
| L12 | FM RF | (1) | | | |
| L13 | FM Osc | (1) | | | |
| L14 | AM Antenna | (1) | | | |
| L15 | AM Osc | (1) | | | |
| L16 | AM RF | (1) | | | |

PIONEER MODELS TP-7005G/-9005G

FILTER CHOKE

| ITEM No. | RATINGS | | | REPLACEMENT DATA | | | NOTES |
|----------|--------------------|---------|------------------------------|------------------|---------------------|----------------|-------|
| | CURRENT (Measured) | DC RES. | INDUCTANCE (0 CURRENT 1000~) | MFG. PART No. | THORDARSON PART No. | TRIAD PART No. | |
| L1 | 280mA | .12 | .33mH | CTH-018 | | | |

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 | HOLDER |
| FU | 2A Fast Acting | E21-005 | | AGC2 | HDJ | 312002 | 150145 | FG2-2 | |

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.

MISCELLANEOUS

| ITEM No. | PART NAME | PART No. | NOTES |
|---------------------|-----------------------|---------------|------------------------------------|
| ANT BOARD | | | |
| RY | Relay | CSR-010 | DX/LOC |
| AUDIO BOARD | | | |
| D1 | LED | G01-604-A | (TLR-102) |
| | | G01-605-A (3) | (TLR-109) |
| D2 | LED | G01-604-A | (TLR-102) |
| | | G01-605-A (3) | (TLR-109) |
| IF-MPX BOARD | | | |
| CF | Filter | CWW-010 | Part of IC1 |
| CHASSIS | | | |
| IL1 | Lamp | CEL-044 | Dial Ind (55mA @ 11.62V) |
| IL2 | Lamp | CEL-044 | Dial Ind (55mA @ 11.62V) |
| IL3 | Lamp | CEL-042 | Stereo Ind (50mA @ 3.69V) |
| M1 | Tuner | | AM/FM |
| HD1 & HD2 | Head | P52-601 | B-Track Stereo Play |
| M3 | Motor | CXM-001 | Tape Transport (3000 rpm @ 13.79V) |
| | | CXM-014 (3) | |
| S0 | Solenoid | CXP-00B | Headshift |
| S1 | Switch | | Power (On Volume) |
| S2 | Switch | CWS-052 | Tape/Radio |
| S3 | Switch | | Manual Program Select (On Volume) |
| S4 | Switch | CSH-01B (1) | AM/FM |
| | | CSL-00B (2) | |
| S5 | Switch | S31-607 | Muting |
| S6 | Switch | S31-607 | LOC/DX |
| S7 | Switch | | Auto Program Select |
| | Printed Circuit Board | CWE-139 | AM/FM Board |
| | Printed Circuit Board | CWX-195 | Antenna Board |
| | Printed Circuit Board | CWH-042 | Audio Board |
| | Printed Circuit Board | CWG-030 | Control Board |
| | Printed Circuit Board | CWE-134 | IF/MPX Board |
| | Connector | CDE-2B4 | Switch Unit |
| | Connector | CDE-2B5 | Volume Unit |
| | Jack | CDH-003 | Antenna |
| | Plug | CKS-024 | Switch Unit |
| | Plug | CKS-027 | Volume Unit |

(1) Used with Model TP-7005.

(2) Used with Model TP-9005.

(3) Alternate

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

| ITEM | PART No. | ITEM | PART No. |
|------------------------|----------|---------------------------|----------|
| Case | CNB-315 | Lever, AM/FM (TP-7005) | CNV-512 |
| Escutcheon (TP-7005) | CXB-1B3 | Lever (TP-9005) | CNV-486 |
| Escutcheon (TP-9005) | CXB-1B2 | Knob, Tuning | CAA-071 |
| Cover | CND-505 | Knob, Balance | CAA-153 |
| Cartridge Door | CXB-1B1 | Knob, Volume | CAA-07B |
| Shaft, Cartridge Door | CLA-514 | Knob, Tone | CAA-153 |
| Spring, Cartridge Door | CBH-309 | Button, (Muting,DX/LOCAL) | CAC-120 |

WIRING DATA

| | |
|---|--|
| General-use Unshielded Hook-up Wire | Use BELDEN No. 8530 (Solid) Available in 13 Colors |
| | 8524 (Stranded) Available in 13 Colors |
| Power Cord | Use BELDEN No. 17106 (Plastic) -6 Ft. |
| | 17109 (Plastic) -9 Ft. |
| Power Cord (Interlock Type) | Use BELDEN No. 8874 (Rubber) or 8895 (Plastic) |
| Low-loss Shielded Lead (Interconnecting) | Use BELDEN No. 8401 or 8421 |
| Tape Head Cable | Use BELDEN No. 8430 (Two-Conductor-Unshielded) |
| | 8429 (Two-Conductor-Shielded) |
| | 8419 (Three-Conductor-Shielded) |



Table listing car models and their corresponding radio frequencies across various manufacturers including Automatic, Bendix, and others. Columns include manufacturer, model name, and frequency range.

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| 14AT | 25 | Transita-Royal K-C | |
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| CL-64PB 64 Chevrolet | 23 | RU-115TC 5-010 | 39 | 73 Corolla, Corona | 156 | ITC4850A-86 (DC4850) | 48 | 73 Custom Beetle, Super Beetle, Fastback, Squareback, Karmann | | Ghia, Sedan 411 | |
| CL-65PB 65 Chevrolet | 35 | RU-116TC 5-012 | 39 | TO-71-PB Corolla/Corona | | ITC4851A-86 (DC4851) | 48 | Beetle, Fastback, Squareback, Karmann | 155 | Transporter | |
| CL-66PB 66 Chevrolet | 37 | SA-65M 65 Simca | 39 | Corona | 135 | ITC4852A-86 (DC1852) | 53 | Beetle, Fastback, Squareback, Karmann | 155 | WV419 (Sapphire XVIII) 74 Custom | |
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| CM-65PB 65 Comet | 26 | SP-66PB 66 Buick Spl. | 26 | 08600-30010 Crown | 41 | ITC7004A-07 (4DC7004) | 111 | Ghia, Sedan 411, Transporter | 155 | Beetle, Dasher, Karmann | |
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| CM-67PB 67 Comet, 202, Capri | 46 | TC-FMC-8 | 69 | 81120-22080 (CR-582FUT/FCT) | 50 | ITC7904A-86 (4DC7904) | 59 | Beetle, Dasher, Karmann | 192 | 73 All Models | |
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| CO-65PB 65 Corvair | 34 | TC-48-T-FM | 63 | 86011-23020 | 214 | MED4053A-47 | 167 | Karmann Ghia, Sedan 411, Transporter | 130 | Custom Beetle, Dasher, Karmann Ghia, Sedan 412, Super Beetle, Transporter, 181 | |
| CO-66PB 66 Corvair | 37 | TC-67T | 180 | 86011-23030 | 214 | MED4054A-47 | 169 | Karmann Ghia | 130 | Karmann Ghia, Sedan 412, Super Beetle, Transporter, 181 | |
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| DA-66PB 66 Dart | 34 | TC-112CM | 184 | 86120-22050 (CR-201FUT/FCT) | 146 | MIC4055A-07 | 96 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-67PB 67 Dart | 46 | TC-200PB | 32 | 86120-22110 | 214 | MIC4058A-07 | 73 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
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| DA-70PB 70 Dart | 46 | TC-300M | 5-041 65 Prod. | 86260-22010 (CX-171FT) Corona | 114 | MIC7003A-17 (4DC7003) | 116 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-71PB 71 Dart | 46 | TC-300M | 5-041 65 Prod. | 86260-22020 | 214 | MIC7012A-17 (4DC7012) | 134 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
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| DA-77PB 77 Dart | 46 | TC-410PB Similar to | 23 | 86260-22021 | 214 | 4DC7002 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-78PB 78 Dart | 46 | TC-410PB 5-045 | 36 | 86260-22021 | 214 | 4DC7008 (S-808) | 77 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
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| DA-80PB 80 Dart | 46 | TE-63PB 63 Tempest | 23 | TRIMMPI | | 4DC7015 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-81PB 81 Dart | 46 | TE-64PB 64 Tempest | 23 | R2B74 0-01000 62 | 19 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-82PB 82 Dart | 46 | TE-65PB 65 Tempest | 31 | 2FBPT (2FBP) | | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-83PB 83 Dart | 46 | TE-66PB 66 Pontiac | 37 | 72 Triumph | 129 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-84PB 84 Dart | 46 | TE-67PB 66/67 Pontiac | 46 | 4TBTR V-350 | 26 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-85PB 85 Dart | 46 | Tempst | 23 | SBRTR V-350 65 Triumph | 33 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-86PB 86 Dart | 46 | TRM-64M | 46 | SBTRP V-350DP 65 | 35 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-87PB 87 Dart | 46 | VA-63PB 61/63 Valiant | 26 | Triumph | 33 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-88PB 88 Dart | 46 | VA-64PB 64 Valiant | 23 | SSMTR V-350 65 | 35 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-89PB 89 Dart | 46 | VA-65PB 65 Valiant | 34 | Triumph | 34 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-90PB 90 Dart | 46 | VA-66PB 66 Valiant | 36 | 6BTR 66 Triumph | 39 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-91PB 91 Dart | 46 | VA-67PB 67 Valiant | 46 | 6BTR 66 Tri 4, Herald | 49 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-92PB 92 Dart | 46 | VW-64PB 64 VW | 23 | 200 and Spitfire 4 | 51 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-93PB 93 Dart | 46 | VW-65PB 65 VW | 35 | 7BTR Similar to page | | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-94PB 94 Dart | 46 | VW-66PB 66 VW | 36 | 125 | 39 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-95PB 95 Dart | 46 | VW-67PB 67 VW | 44 | 7BTRX 67 Triumph | 49 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-96PB 96 Dart | 46 | 170-64PB See page 136 | | 7BTRX 67 Tri 4, Herald | 53 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-97PB 97 Dart | 46 | 64 Dart | 26 | 1200 and Spitfire 4 | 51 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-98PB 98 Dart | 46 | 880-63PB 62/63 Dodge | 23 | 88TR 68 GT-6 | 64 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-99PB 99 Dart | 46 | 880 | 26 | Spitfire 4, TR-250 | 64 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-100PB 100 Dart | 46 | 880-64PB 63/64 Dodge | 23 | 9BTR 69, 9BTR 69 GT-6, TR-6, Spitfire 9BTR | 69 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-101PB 101 Dart | 46 | 880 | 23 | 69 MBG, MG Midget, Austin American (Similar to page 107) | 64 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-102PB 102 Dart | 46 | TITAN | | 9BTR 69 | 113 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-103PB 103 Dart | 46 | ETB-1600 | 40 | TR-6 | | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-104PB 104 Dart | 46 | FMC-4 | 27 | 69 MBG, MG Midget, Austin American (Similar to page 107) | 64 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-105PB 105 Dart | 46 | RV-66 | 40 | 9BTR 69 | | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-106PB 106 Dart | 46 | RV-67A | 41 | TR-6 | | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-107PB 107 Dart | 46 | RV-68A | 41 | 69 MBG, MG Midget, Austin American (Similar to page 107) | 64 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-108PB 108 Dart | 46 | SP-27 | 28 | 9BTR 69 | | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-109PB 109 Dart | 46 | TMX-39 | 28 | TRUETONE | | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-110PB 110 Dart | 46 | TMX-40 | 28 | D4118, B | 4 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-111PB 111 Dart | 46 | TMX-40 | 28 | D4320 | 4 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-112PB 112 Dart | 46 | TMX-40 | 28 | D4321, A | 4 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-113PB 113 Dart | 46 | TMX-40 | 28 | D4425B | 5 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-114PB 114 Dart | 46 | TMX-40 | 28 | D4426A | 5 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-115PB 115 Dart | 46 | TMX-40 | 28 | D4623A | 5 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-116PB 116 Dart | 46 | TMX-40 | 28 | D4624A | 5 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-117PB 117 Dart | 46 | TMX-40 | 28 | D4625A | 5 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-118PB 118 Dart | 46 | TMX-40 | 28 | D4726A | 5 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-119PB 119 Dart | 46 | TMX-40 | 28 | D4826A | 5 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-120PB 120 Dart | 46 | TMX-40 | 28 | DC4050 | 72 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-121PB 121 Dart | 46 | TMX-40 | 28 | DC4050C | 136 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | 130 | Beetle, Fastback, Squareback, Karmann | |
| DA-122PB 122 Dart | 46 | TMX-40 | 28 | DC4051 | 167 | 4DC7018 | 132 | Beetle, Fastback, Squareback, Karmann | | | |

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