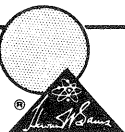


PHOTOFACT® Folder

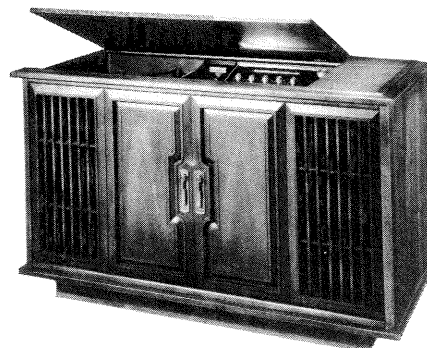
with CIRCUITRACE®

RCA CHASSIS
RC-1245C, RS-252M

For Supplier Address See PHOTOFACT Index

RCA CHASSIS
RC-1245C, RS-252M

| MODEL | AM-FM Ch. | AMP CH. | TAPE |
|-----------|-----------|---------|-------|
| VST300W | RC-1245C | RS-252M | TC1-E |
| VST310L | " | " | " |
| VST320D,S | " | " | " |
| VST330F | " | " | " |



MODEL VST300W

RECORD CHANGER SERVICING

RCA RECORD CHANGER MODEL RP234C-4

ADJUSTMENTS

CLEANING

Use a cloth dampened with isopropyl alcohol to clean the driving surfaces of the idler wheel, motor shaft and inside rim of the turntable.

TONE ARM HEIGHT

Adjust B2 so the top of the tone arm clears a 12-inch record on the center spindle shelf during the change cycle. Turning B2 clockwise decreases the lift-up height.

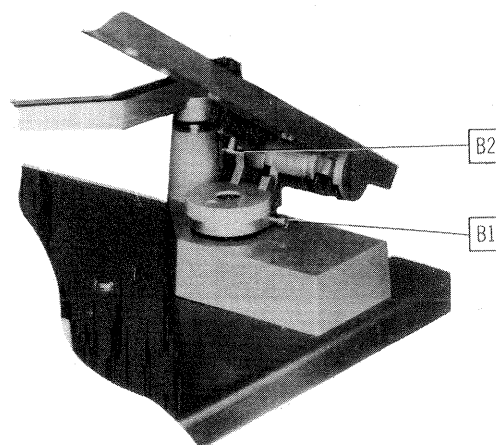
LUBRICATION

Apply light nonhardening grease to sliding cam surfaces and pivot points, light machine oil on the tone arm lift rod, idler wheel bearings, and motor bearings.

DO NOT lubricate turntable driving surface, the teeth on cycling gear or turntable hub.

TONE ARM SETDOWN

Adjust screw B1 so the needle sets down in the center of the lead-in groove on a 12-inch record. Turning the screw clockwise moves the set-down point inward.

RCA CHASSIS
RC-1245C, RS-252M

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

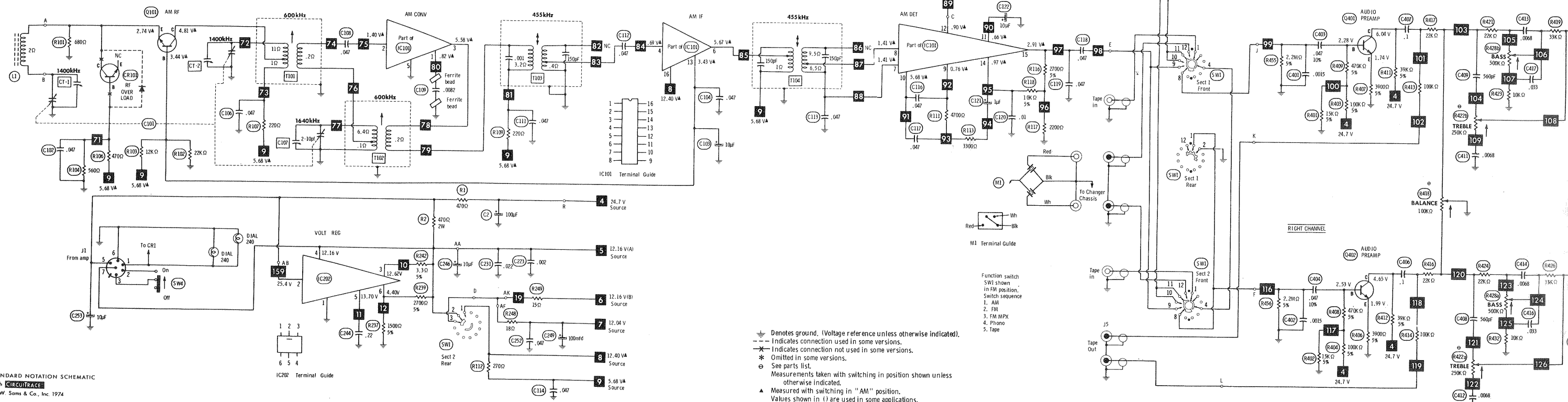
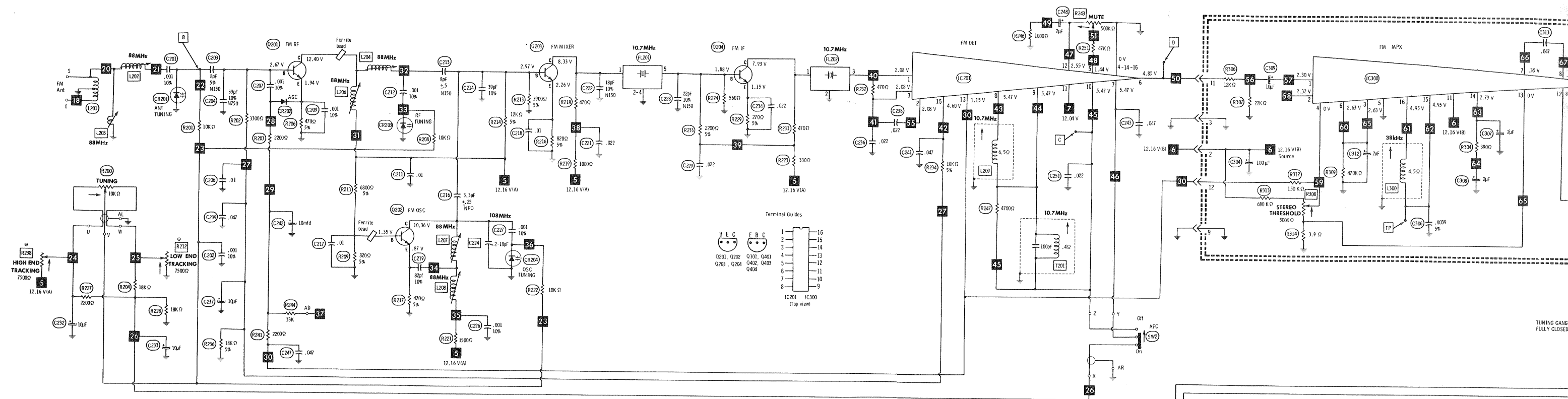
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. 4PL934

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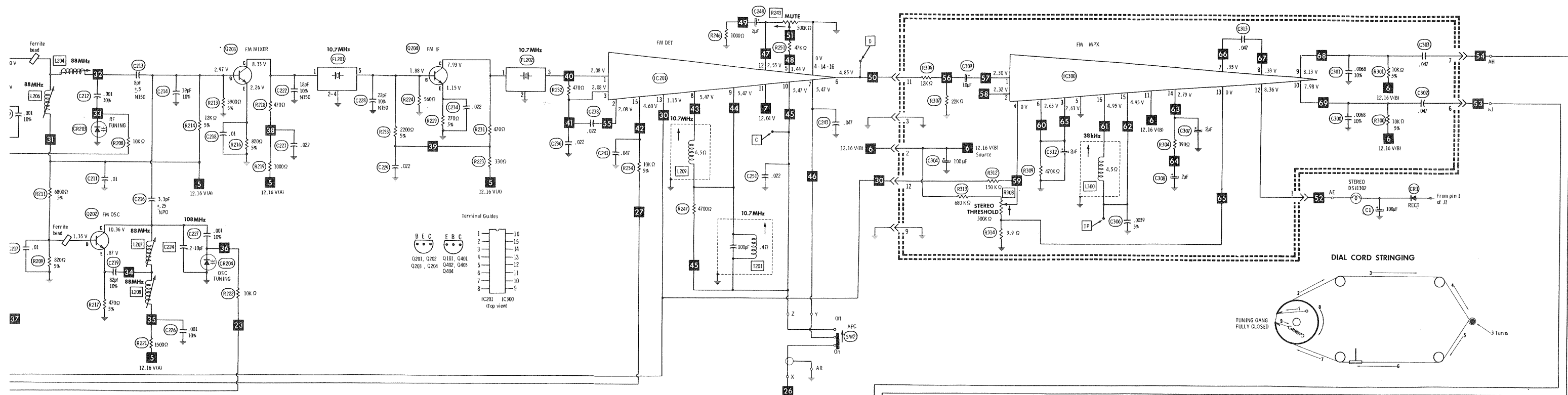
DATE 5 -74

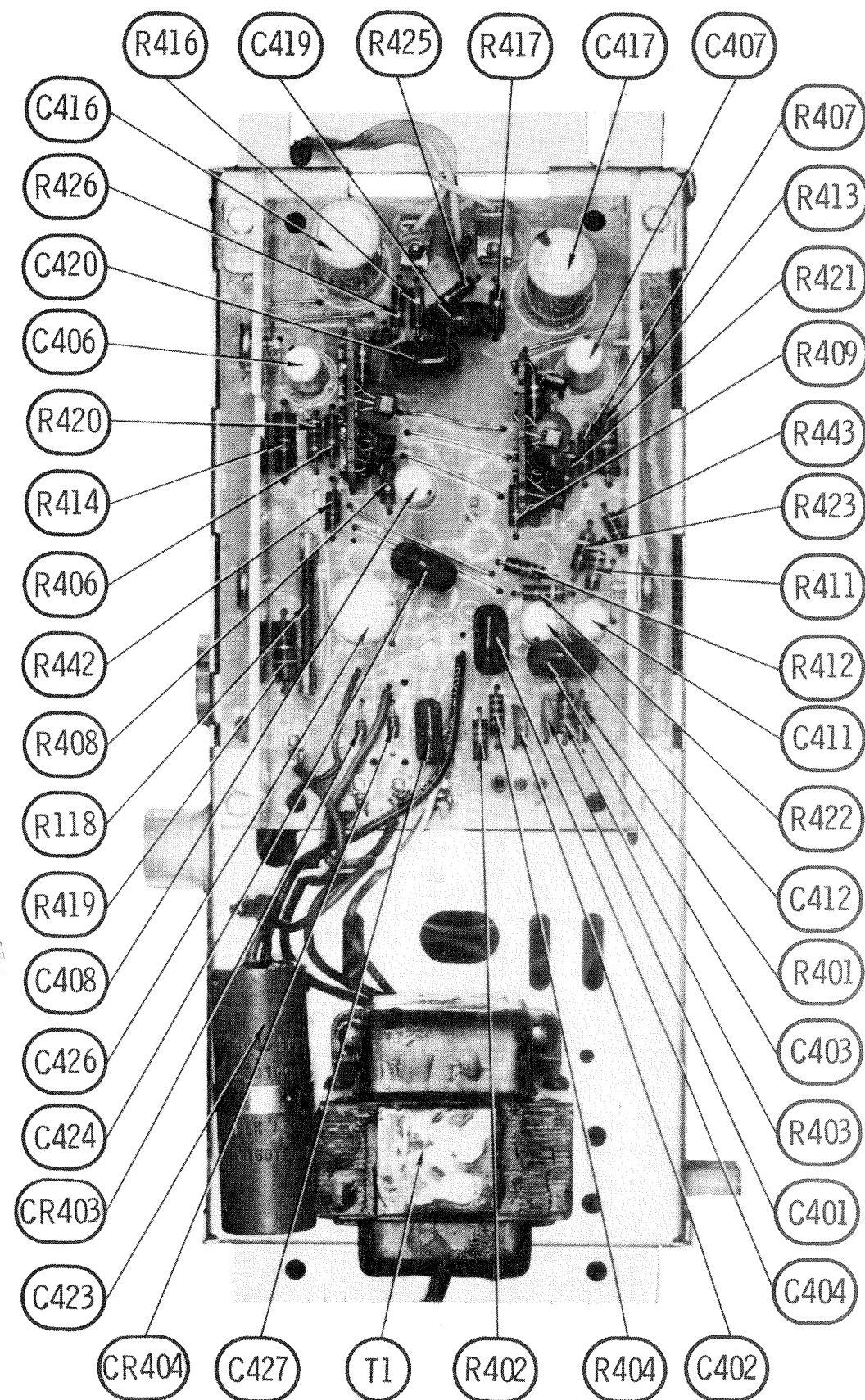
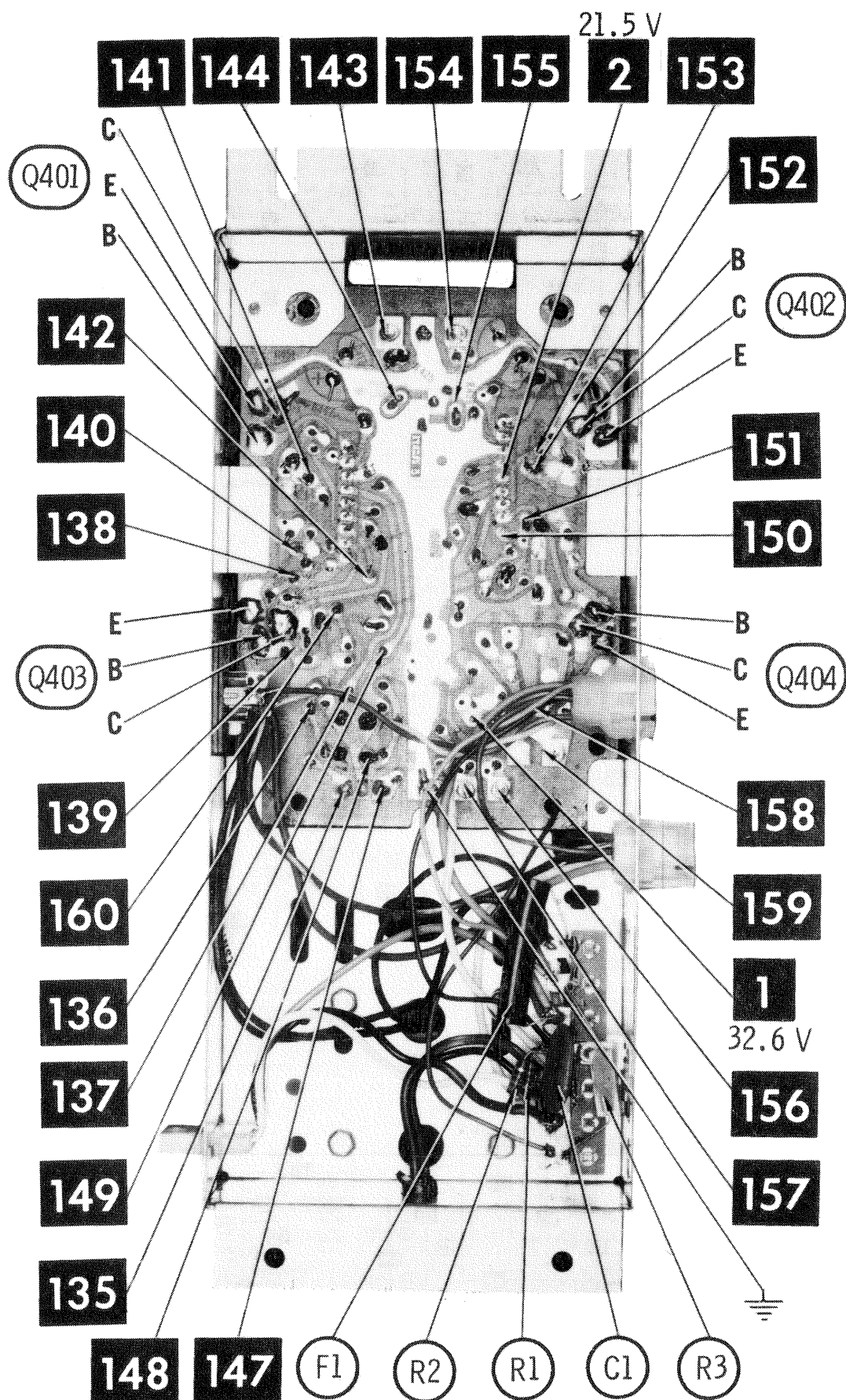
SET 1401 FOLDER 4

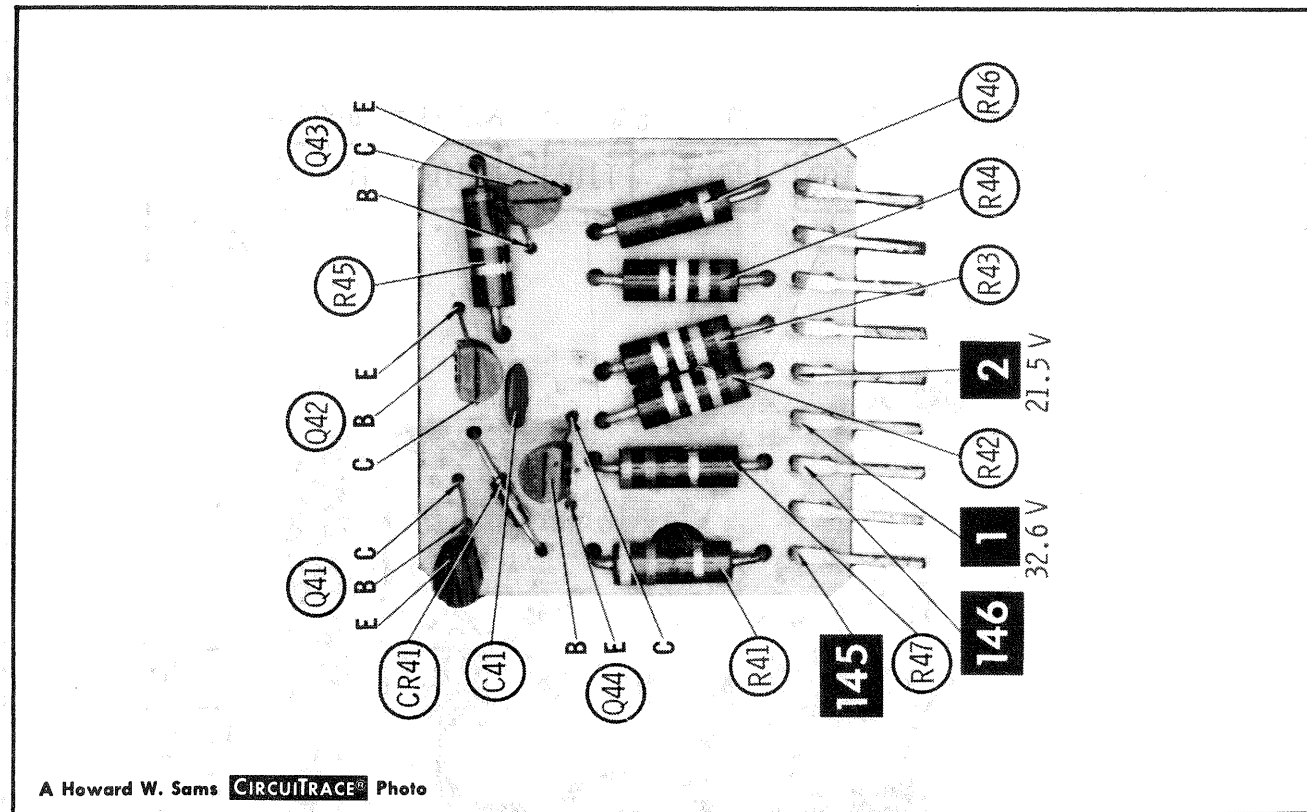


A PHOTOFACT STANDARD NOTATION SCHEMATIC
with **CIRCUITRACE**
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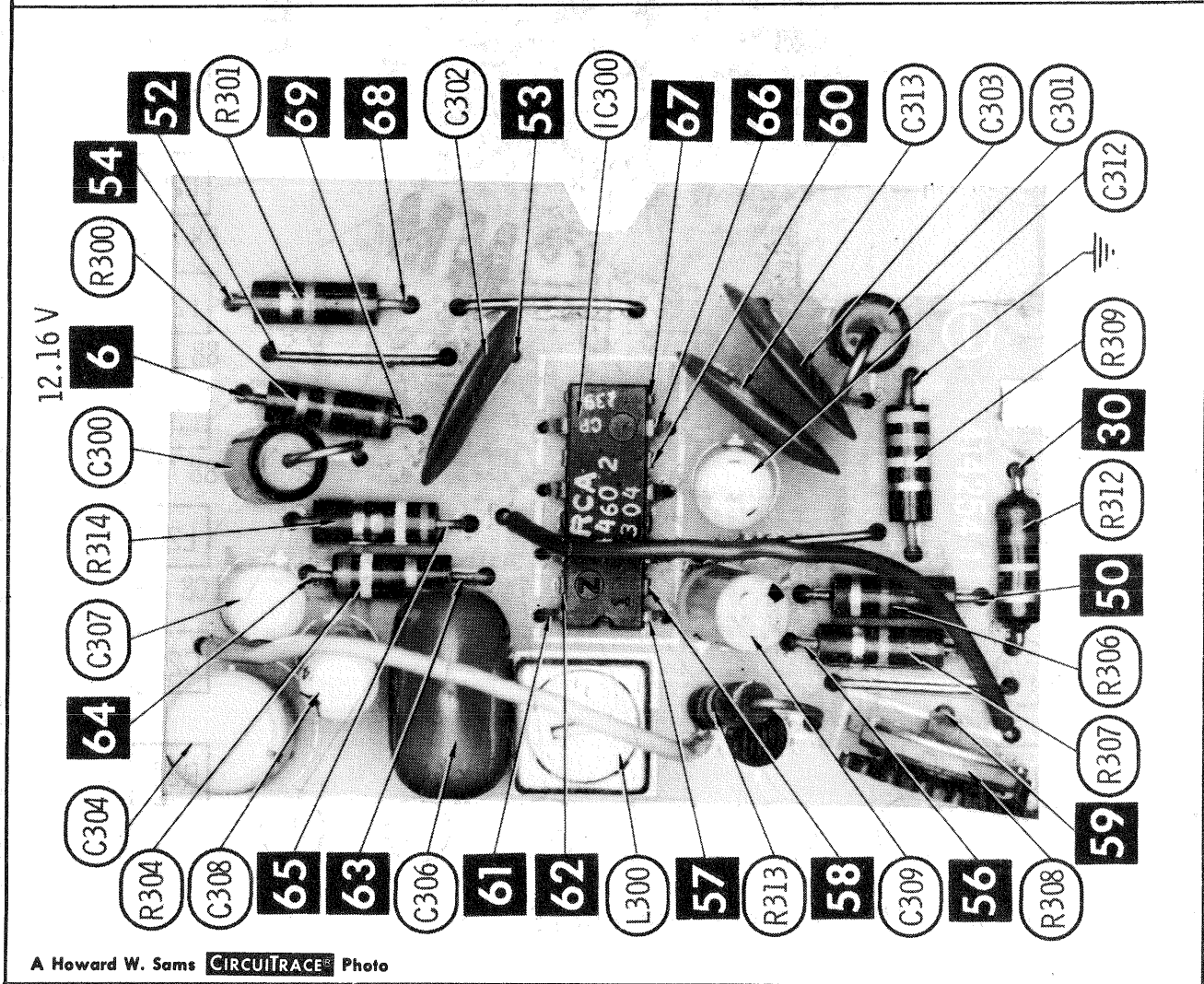
⊥ Denotes ground. (Voltage reference unless otherwise indicated).
--- Indicates connection used in some versions.
* Indicates connection not used in some versions.
* Omitted in some versions.
e See parts list.
Measurements taken with switching in position shown unless otherwise indicated.
▲ Measured with switching in "AM" position.
Values shown in () are used in some applications.
Resistors are 1/2W or less, 10% or 20%, unless otherwise indicated.
Supply voltage maintained at rated value for measurements.
Voltage and resistance measured with VTVM or equivalent meter, no signal applied and controls adjusted for normal operation.
Arrow on control indicates direction of advance.
Numbers assigned to terminals may not be found on the unit.
Transistor resistances vary widely. No resistance measurements taken.



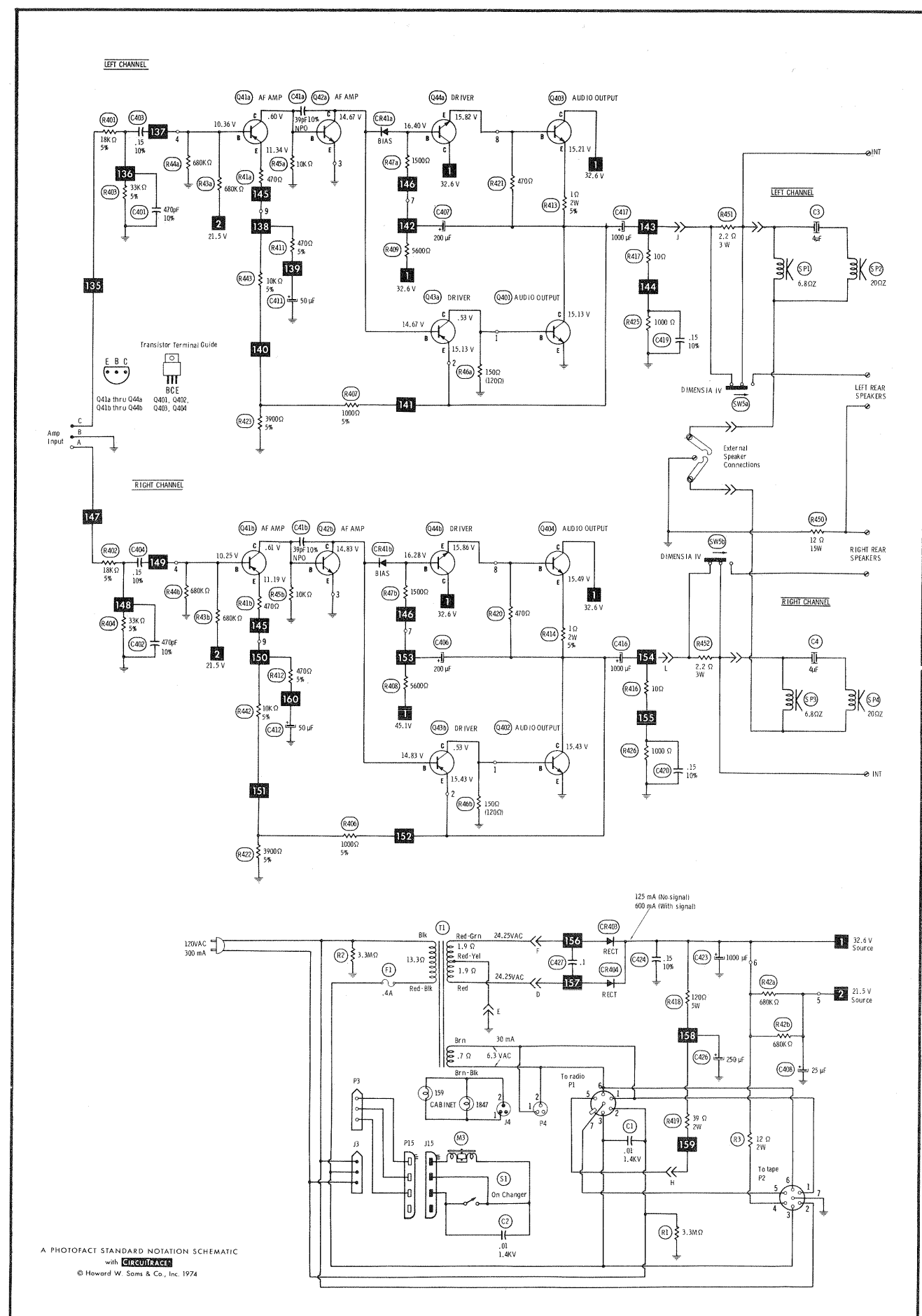




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A Howard W. Sams CIRCUITRACE® Photo



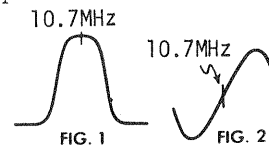
A PHOTOFAC STANDARD NOTATION SCHEMATIC
with CIRCUITRACE®
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RCA CHASSIS
RC-1245C, RS-252M

FOLDER 4

ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120VAC. Allow a 15-minute warm-up period. Use only enough generator output to obtain a suitable indication. Suggested Alignment Tools: GC ELECTRONICS: T103, T104 9296, 9297, 9300 L209, L300, T101, T102, T201 . . . 9440



AM ALIGNMENT—SELECTOR IN AM POSITION

Connect generator across loop fashioned of several turns of wire. Set volume at maximum.

| GENERATOR FREQUENCY | RADIO DIAL SETTING | INDICATOR | ADJUST | REMARKS |
|-----------------------------------|---------------------------|-----------------------------------|------------|--|
| 455kHz 400-hertz Modulation | Tuning gang fully open | Output meter across voice coil | T104, T103 | Adjust for maximum. Repeat until no further improvement is noted. |
| 600kHz | Tune to signal | " | T102, T101 | Adjust for maximum. |
| 1640kHz | " | " | C107 | Adjust for maximum. |
| 1400kHz | " | " | CT-1, CT-2 | Adjust for maximum. Repeat AM alignment until no further improvement is noted. |

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

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

| GENERATOR FREQUENCY | RADIO DIAL SETTING | INDICATOR | ADJUST | REMARKS |
|-------------------------|---------------------------|--|--------|--|
| 10.7MHz 450kHz Sweep | Point of non-interference | Vert input of scope to point C low side to ground. | L209* | * Adjust only if L209 has been replaced. Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. |
| " | " | Vert input of scope to point D low side to ground. | T201 | Adjust T201 to place marker at center of S curve similar to Fig. 2. Check for MINIMUM movement of "S" curve as AFC is switched on and off. |

FM RF ALIGNMENT—SELECTOR IN FM POSITION

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

| GENERATOR FREQUENCY | RADIO DIAL SETTING | INDICATOR | ADJUST | REMARKS |
|------------------------|--------------------|---|------------------------------------|---|
| 88MHz Unmodulated | Low freq end | DC probe of VTVM to point C common to ground. | L208, L207, L206, L204, L203, L202 | Adjust for maximum. |
| 108 MHz Unmodulated | Tune to signal | " | C224 | Adjust for maximum. Repeat FM RF steps until no further improvement is noted. |

TRACKING ADJUSTMENTS

Tune to a low end station and adjust low end tracking control (R212) for maximum signal.

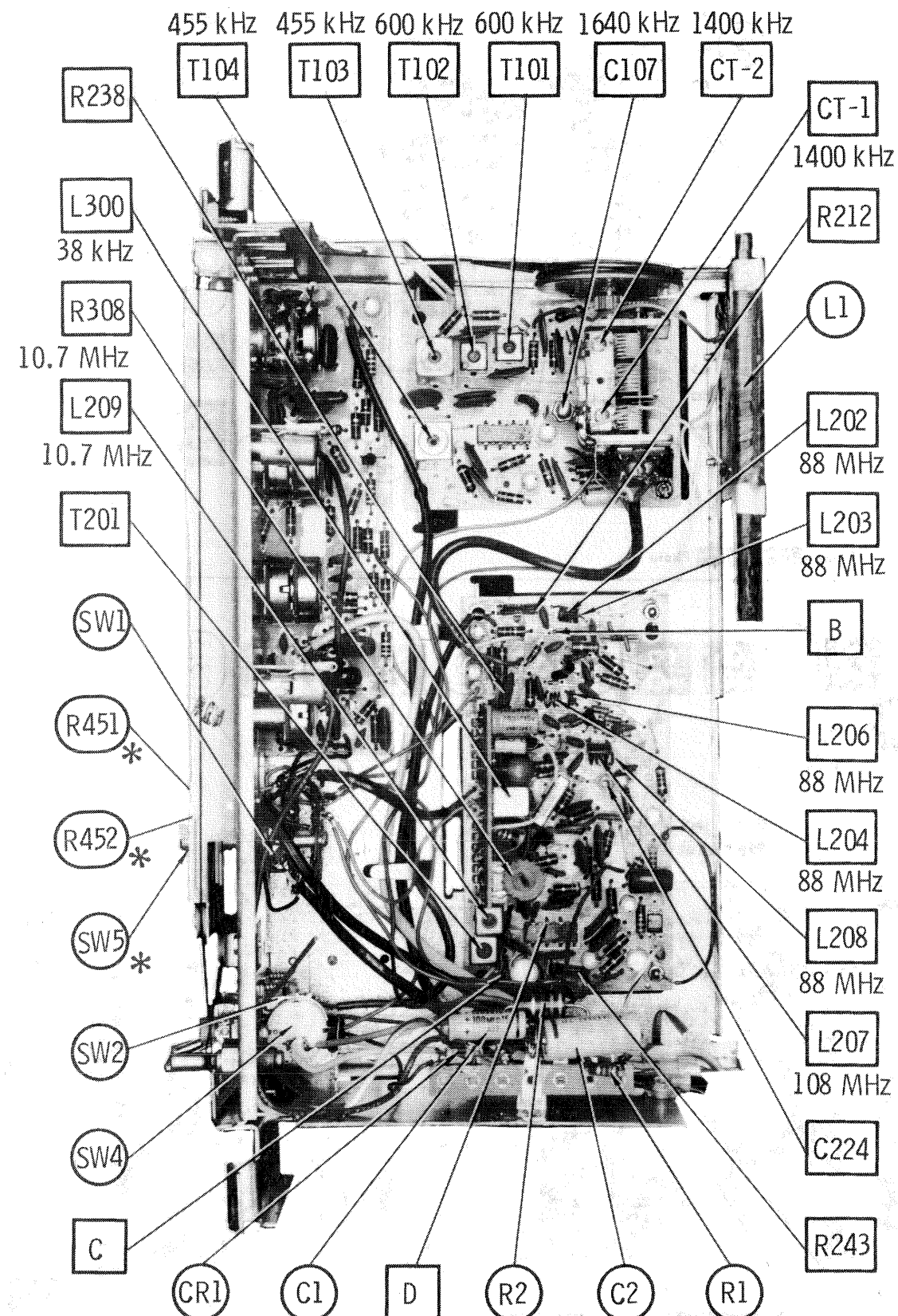
Tune to high end station and adjust high end tracking control (R238) for maximum signal.

MUTE ADJUSTMENT

Tune dial between stations and adjust mute control (R243) until noise is nearly eliminated.

THRESHOLD CONTROL, R308, ADJUSTMENT

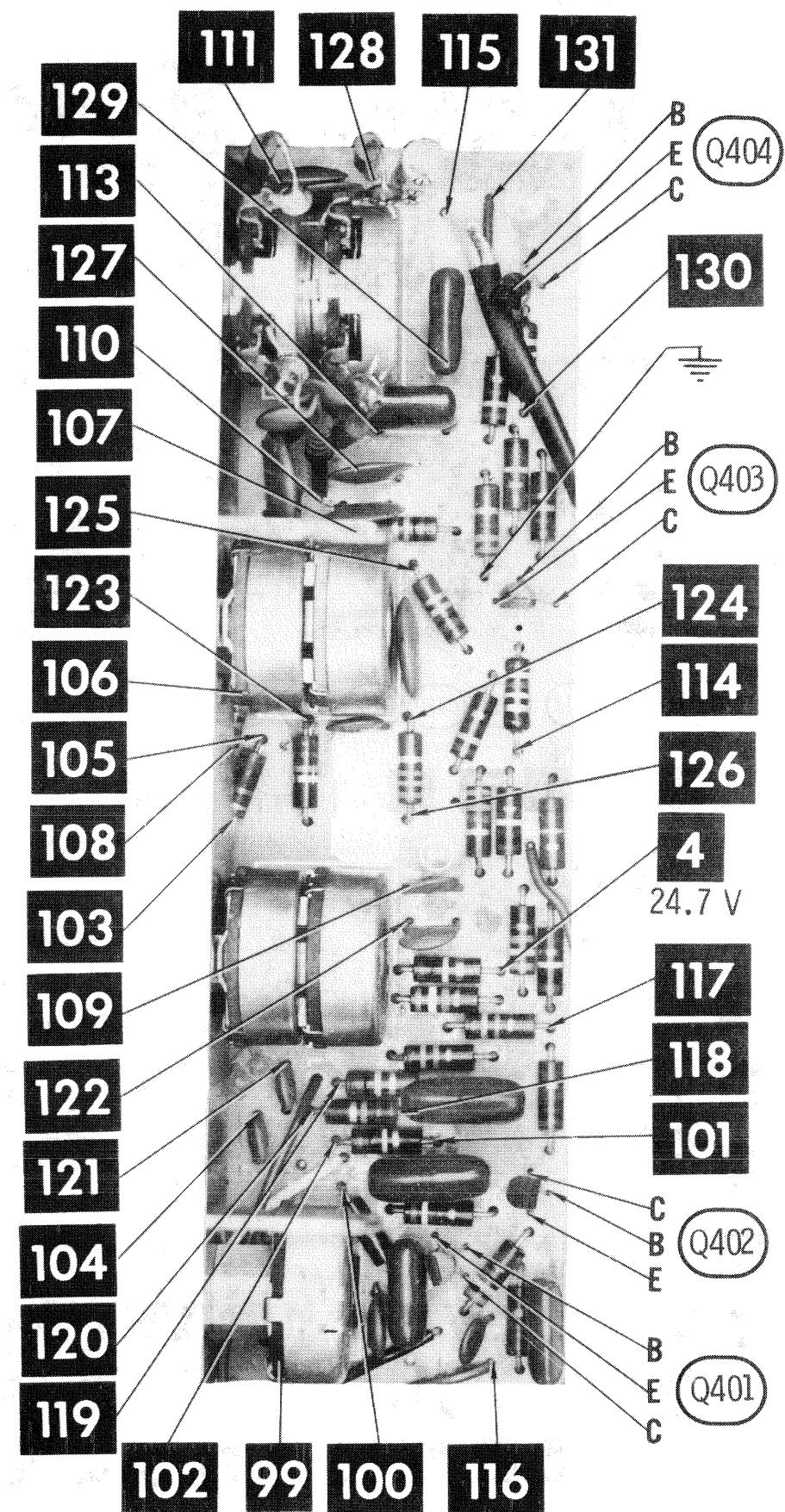
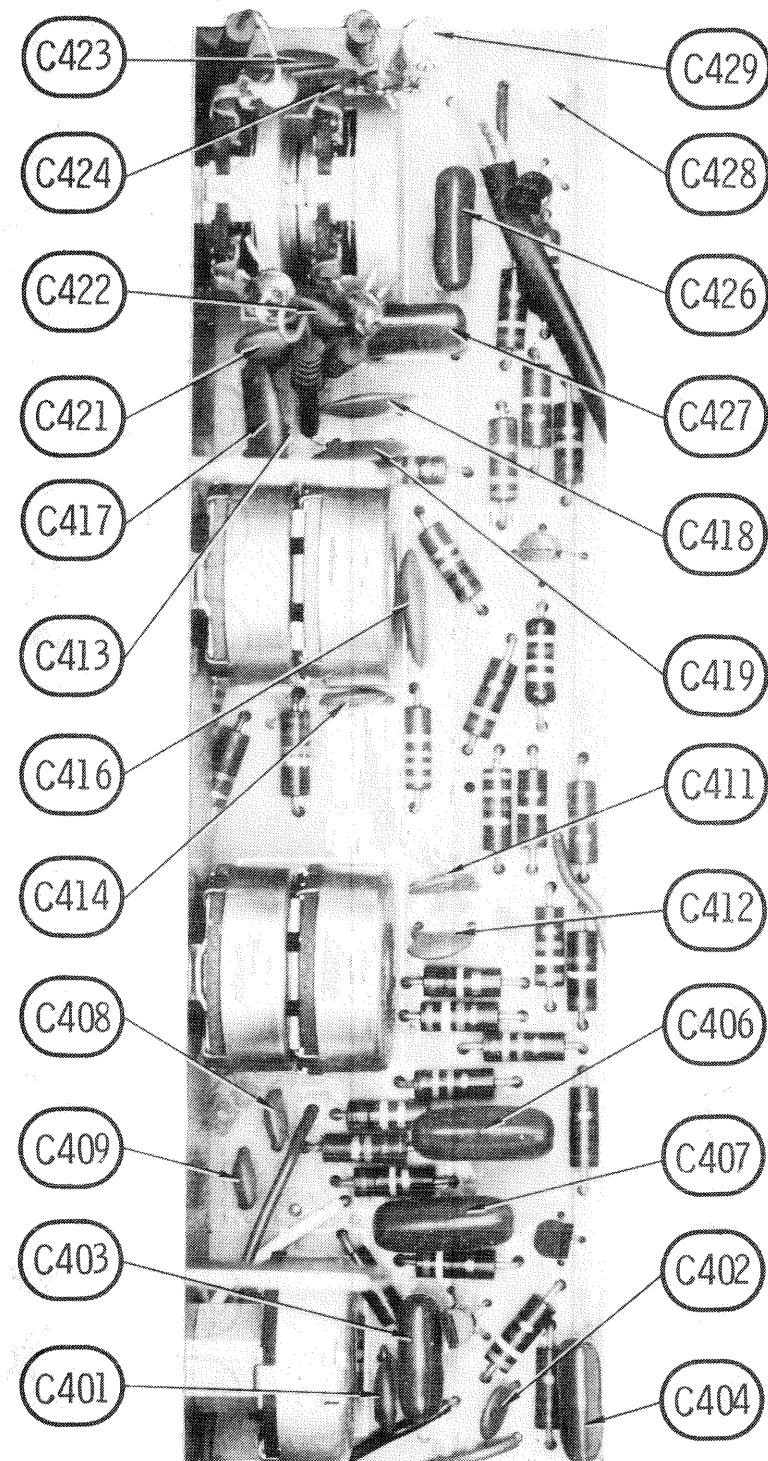
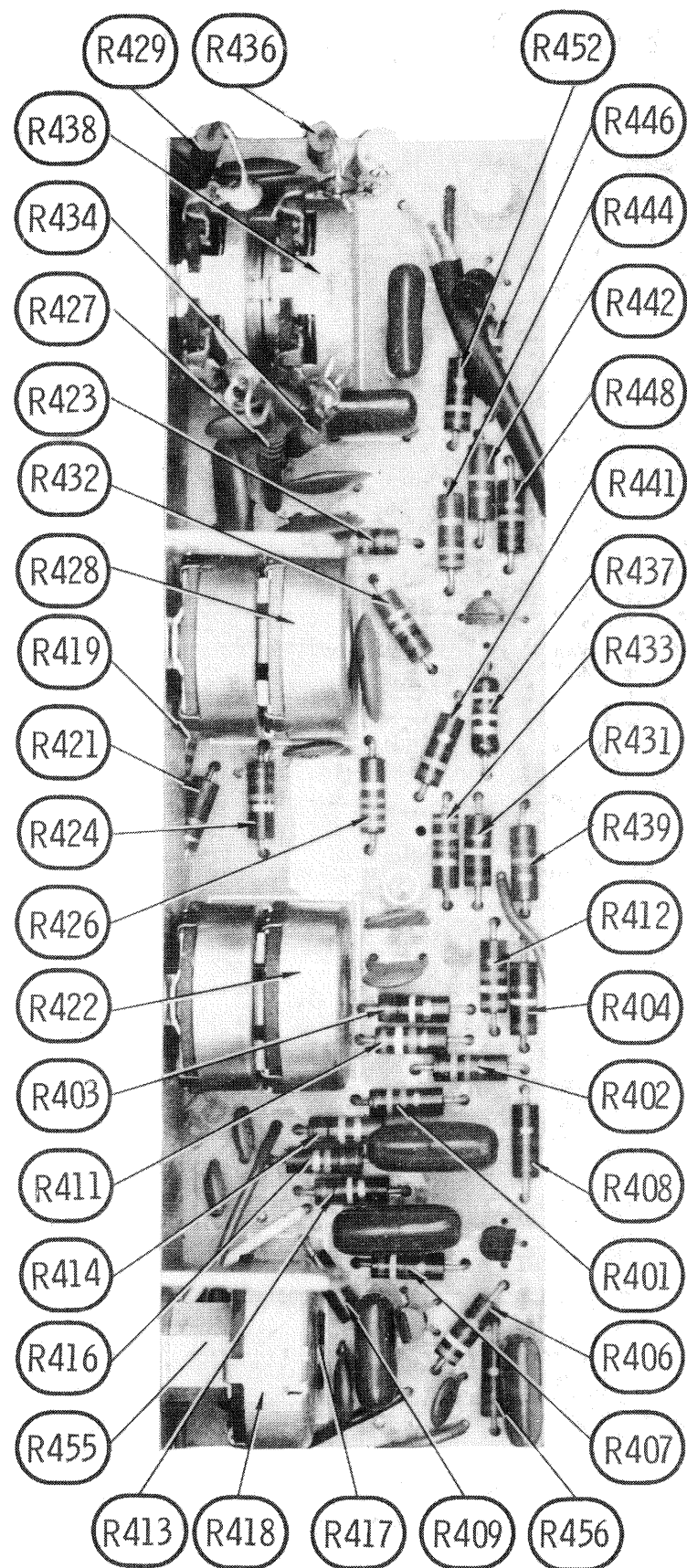
Tune in weak stereo station and adjust threshold control, R308, for stereo indication.



* SEE AMP SCHEMATIC and PARTS LIST.

RCA CHASSIS
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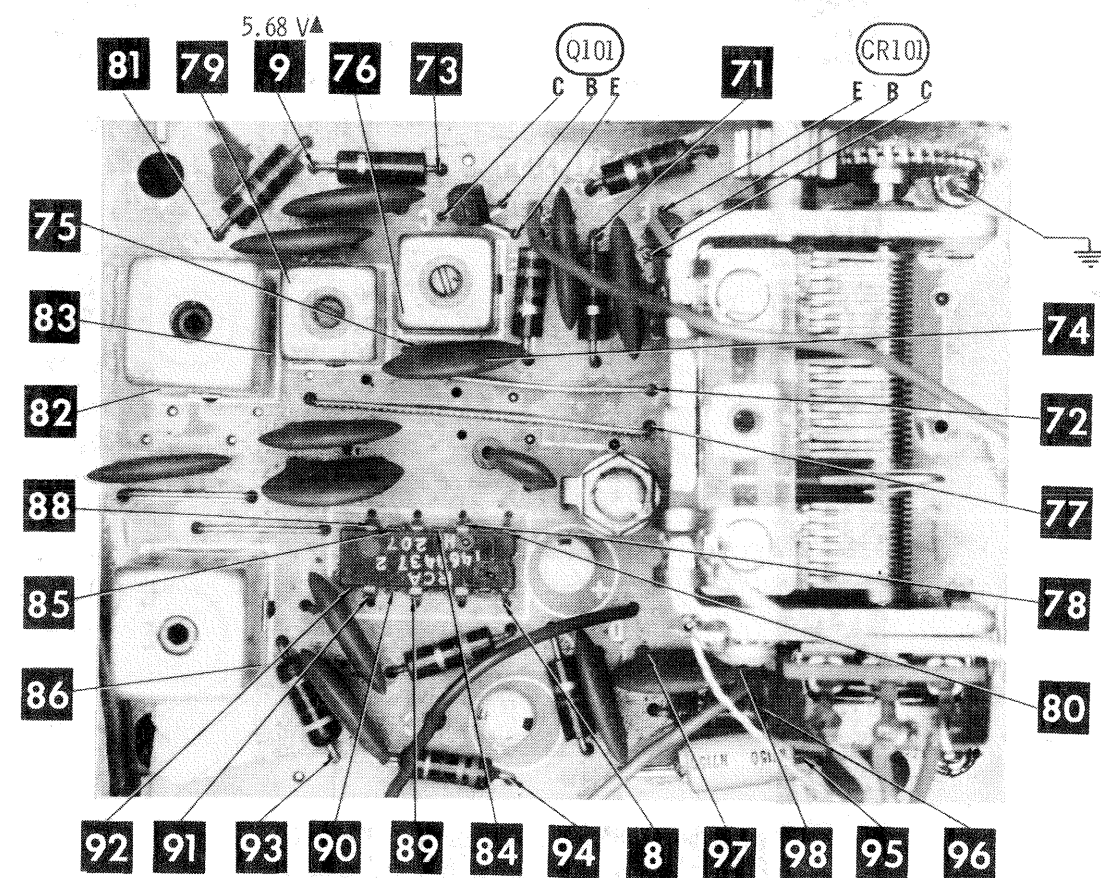
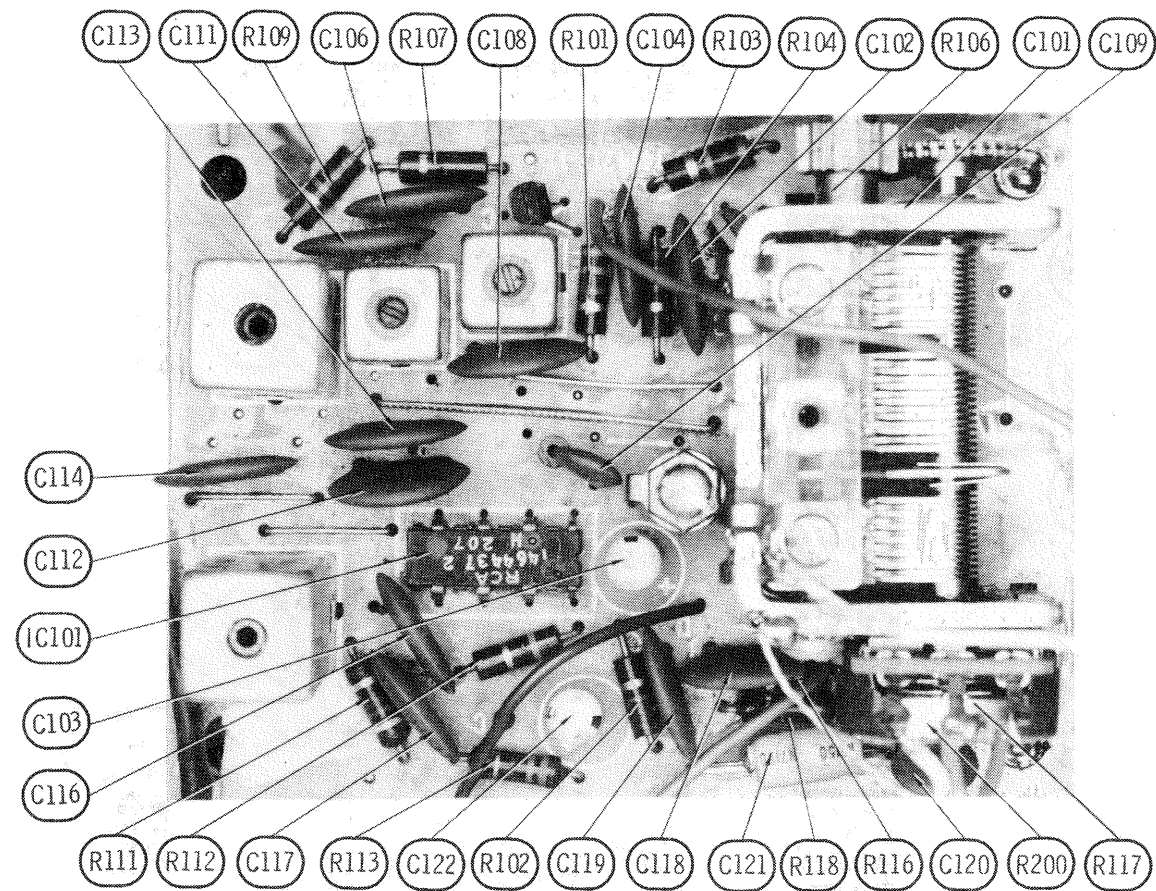
FOLDER 4



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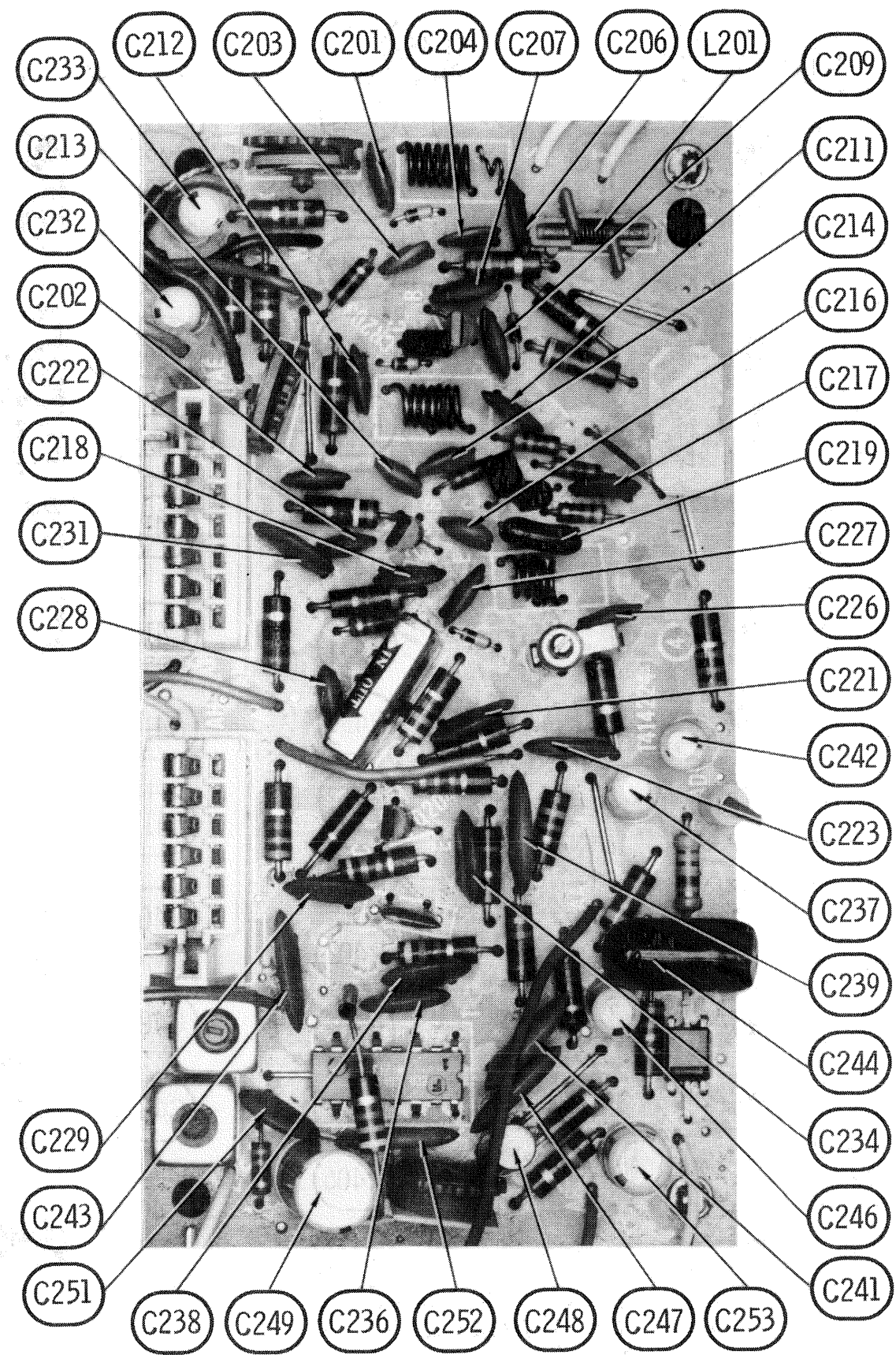
RCA CHASSIS
RC-1245C, RS-252M

FOLDER 4



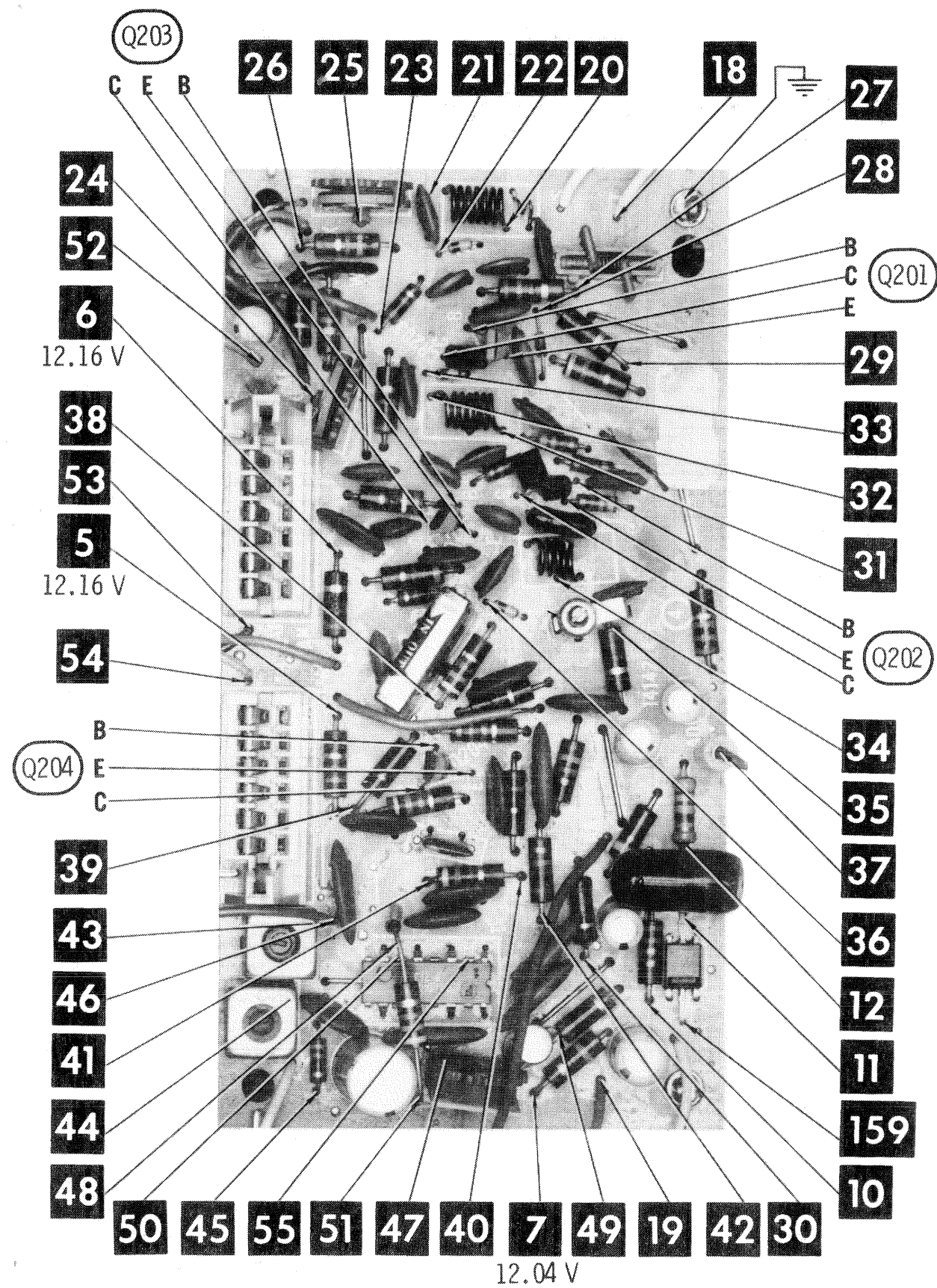
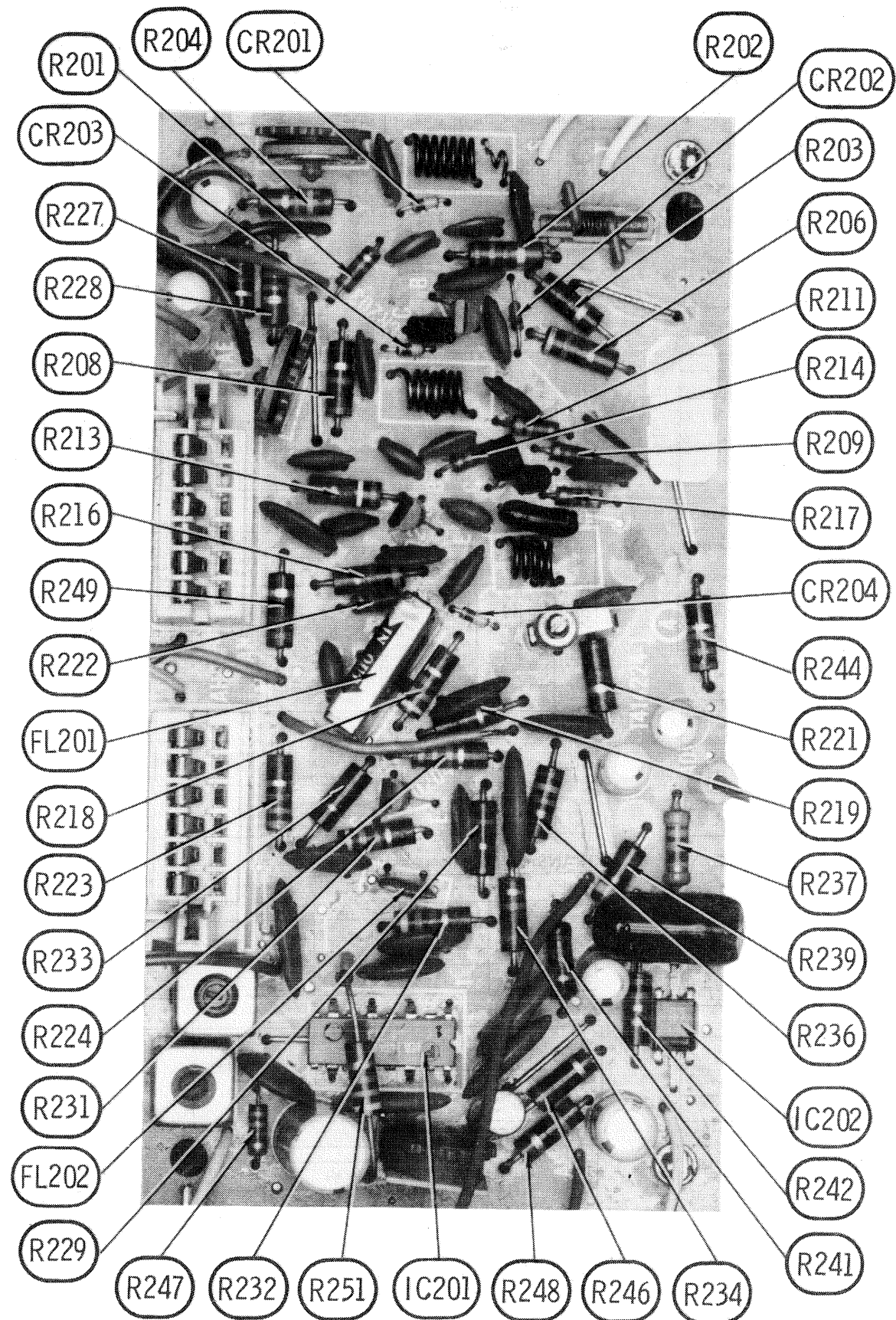
▲ MEASURED IN AM POSITION

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RC-1245C, RS-252M

FOLDER 4



RCA CHASSIS
RC-1245C, RS-252M

FOLDER 4

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RADIO PARTS LIST AND DESCRIPTION

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

WIRING DATA

| | |
|--|---|
| General-use Unshielded Hook-up Wire | Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors or 8421 |
| Low-loss Shielded Lead (Interconnecting) | Use BELDEN No. 8430 (Two Conductor-Unshielded) 8429 (Two Conductor-Shielded) |
| Phono Pick-up Arm Cable | Use BELDEN No. 8419 (Three Conductor-Shielded) |

SEMICONDUCTORS

| ITEM No. | TYPE / MFR. No./PART No. | REPLACEMENT DATA | | | | | | |
|---------------------------|-------------------------------|---------------------------|----------------------------------|-------------------------|-------------------|------------------|------------------|--------------------|
| | | GENERAL ELECTRIC PART No. | INTERNATIONAL RECTIFIER PART No. | MALLORY PART No. | MOTOROLA PART No. | RCA PART No. | SPRAGUE PART No. | SYLVANIA PART No. |
| CR1 | 125105 (973936-20) | GE-504A | 8D4 or 5A4D | PTC201 or PTC202 PTC214 | HEPR0052 HEPR0602 | SK3030 or SK3100 | RT213 or RT218 | ECG 116 or ECG 177 |
| CR101 | 136163 (1471872-16) | GE-300 | D200 | | | | | ECG 177 |
| CR201 and CR203 and CR204 | 136164 (1476690-1)* (8) | | | | | | | |
| CR202 | 136162 (1476690-1) | GE-300 | D200 | PTC214 | HEPR0602 | SK3100 | RT218 | ECG 177 |
| IC101 | 136145 (146437-2) 4437-3 (2) | | | | | SK3146 | | ECG 787 |
| IC201 | 136146 (1464438-2) 4438-3 (2) | | | | | SK3147 | | ECG 788 |
| IC202 | 134340 (1464295-2) | | | | | | | ECG 762 |
| IC300 | 136380 (1464460-2) | | | | | | | |
| Q101 | 136165 (1471115-13) | GE-61 | TR-95 | PTC121 | HEP728 | SK3018 | RT102 | ECG 108 |
| Q201 | 136168 (1473657-1) | GE-61 | TR-95 | PTC121 | HEP728 | SK3018 | RT102 | ECG 108 |
| Q202 | 136240 (1473657-2) | GE-61 | TR-95 | PTC121 | HEP728 | SK3018 | RT102 | ECG 108 |
| Q203 | 136240 (1473657-2) | GE-61 | TR-95 | PTC121 | HEP728 | SK3018 | RT102 | ECG 108 |
| Q204 | 136168 (1473657-1) | GE-61 | TR-95 | PTC121 | HEP728 | SK3018 | RT102 | ECG 108 |
| Q401 | 136430 (1471122-6) 122-7 (2) | GE-61 | TR-95 | PTC121 | HEP728 | SK3018 | RT102 | ECG 108 |
| Q402 | 136430 (1471122-6) 122-7 (2) | GE-61 | TR-95 | PTC121 | HEP728 | SK3018 | RT102 | ECG 108 |
| Q403 | 136430 (1471122-6) 122-7 (2) | GE-61 | TR-95 | PTC121 | HEP728 | SK3018 | RT102 | ECG 108 |
| Q404 | 136430 (1471122-6) 122-7 (2) | GE-61 | TR-95 | PTC121 | HEP728 | SK3018 | RT102 | ECG 108 |

* Matched set of three varactors. (2) Number on unit. (8) Varactor

ELECTROLYTIC CAPACITORS

| ITEM No. | RATING | REPLACEMENT DATA | | | | | | |
|----------|----------|----------------------|---------------|--------------------|---------------------------|------------------|------------------|--|
| | | MFR. PART No. | ARCO PART No. | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| C1 | 100 15 V | 119358 (1443418-9) | ME-4-E-100 | EA15-100 | WBR100-16 | MTA100E15 | TVA-1160 | |
| C2 | 100 35 V | 420476 (1466627-771) | ME-J100 | EA50-100 | WBR100-35 | MTA100F35 | TVA-1310 | |
| C103 | 10 15 V | 132543 (1446656-441) | RME-B-E-010 | EP15-10 | PC10-25 | VT110A25 | EV-1222 | |
| C121 | 1 50 V | 136158 (1446650-181) | ME-1-J-001 | EA50-1 | WBR1-50 | MTA10050 | TVA-1300 | |
| C122 | 10 15 V | 132543 (1446656-441) | RME-B-E-010 | EP15-10 | PC10-25 | VT110A25 | EV-1222 | |
| C232 | 10 15 V | 132543 (1446656-441) | RME-B-E-010 | EP15-10 | PC10-25 | VT110A25 | EV-1222 | |
| C233 | 10 15 V | 132543 (1446656-441) | RME-B-E-010 | EP15-10 | PC10-25 | VT110A25 | EV-1222 | |
| C237 | 10 15 V | 132543 (1446656-441) | RME-B-E-010 | EP15-10 | PC10-25 | VT110A25 | EV-1222 | |
| C242 | 10 15 V | 132543 (1446656-441) | RME-B-E-010 | EP15-10 | PC10-25 | VT110A25 | EV-1222 | |
| C246 | 10 15 V | 132543 (1446656-441) | RME-B-E-010 | EP15-10 | PC10-25 | VT110A25 | EV-1222 | |
| C248 | 2 50 V | 120083 (1471882-10) | RME-A-J-002 | EP50-2 | PC2-100 | VT12R2A50 | EV-1517 | |
| C249 | 100 15 V | 115803 (1470494-9) | RME-E-E-100 | EP15-100 | PC100-16 | MTV100C15 | EV-1230 | |
| C253 | 10 50 V | 418689 (1446656-481) | RME-D-J-010 | EP50-10 | PC10-50 | MTV100C50 | EV-1622 | |
| C304 | 100 15 V | 115803 (1470494-9) | RME-E-E-100 | EP15-100 | PC100-16 | MTV100C15 | EV-1230 | |
| C307 | 2 50 V | 120083 (1471882-10) | RME-A-J-002 | EP50-2 | PC2-100 | VT12R2A50 | EV-1517 | |
| C308 | 2 50 V | 120083 (1471882-10) | RME-A-J-002 | EP50-2 | PC2-100 | VT12R2A50 | EV-1517 | |
| C309 | 10 15 V | 132543 (1446656-441) | RME-B-E-010 | EP15-10 | PC10-25 | VT110A25 | EV-1222 | |
| C312 | 2 50 V | 120083 (1471882-10) | RME-A-J-002 | EP50-2 | PC2-100 | VT12R2A50 | EV-1517 | |
| C426 | 2 50 V | 120083 (1471882-10) | RME-A-J-002 | EP50-2 | PC2-100 | VT12R2A50 | EV-1517 | |
| C429 | 2 50 V | 120083 (1471882-10) | RME-A-J-002 | EP50-2 | PC2-100 | VT12R2A50 | EV-1517 | |

CAPACITORS

| ITEM No. | RATING | MFR. PART No. | REPLACEMENT DATA | | | | |
|----------|-------------|----------------------|-----------------------|--------------------|---------------------------|------------------|------------------|
| | | | ARCO/ELMENCO PART No. | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. |
| C101 | Tuning Gang | 136161 (1464434-1) | | | | GP150 | |
| C102 | .047 | 117334 (1096518-99) | | DD-503 | | GP150 | |
| C104 | .047 | 117334 (1096518-99) | | DD-503 | | GP150 | |
| C106 | .047 | 117334 (1096518-99) | | DD-503 | | GP150 | |
| C107 | 2-10 | 116501 (945366-5) | | | | GP150 | |
| C108 | .047 | 117334 (1096518-99) | | DD-503 | | GP150 | |
| C109 | .0082 | 136155 (1096518-70) | | DD-503 | | 2W110 | 306A-510 |
| C111 | .047 | 117334 (1096518-99) | | DD-503 | | GP150 | |
| C112 | .047 | 117334 (1096518-99) | | DD-503 | | GP150 | |
| C113 | .047 | 117334 (1096518-99) | | DD-503 | | GP150 | |
| C114 | .047 | 117334 (1096518-99) | | DD-503 | | GP150 | |
| C116 | .047 | 134939 (1096518-123) | | DD-503 | | GP150 | |
| C117 | .047 | 134939 (1096518-123) | | DD-503 | | GP150 | |
| C118 | .047 | 117334 (1096518-99) | | DD-503 | | GP150 | |
| C119 | .047 | 117334 (1096518-99) | | DD-503 | | GP150 | |
| C120 | .01 | | CCD-103 | DD-103 | GP10000 | JF110 | 10TS-510 |
| C201 | .01 | | CCD-102 | DD-102 | GP1000 | GP210 | 10TS-D10 |
| C202 | .001 | | CCD-102 | DD-102 | GP1000 | GP210 | 10TS-D10 |
| C203 | 8 | N150 5% | 121226 (1420354-209) | * | | | 10TCP-V82 |
| C204 | 39 | N750 10% | | CCTN-390 | | CN7439 | 10TCU-Q39 |
| C206 | .01 | | | CCD-103 | DD-103 | GP10000 | 10TS-S10 |
| C207 | .001 | 10% | | CCD-102 | DD-102 | GP1000 | 10TS-D10 |
| C209 | .001 | 10% | | CCD-102 | DD-102 | GP1000 | 10TS-D10 |
| C211 | .01 | | | CCD-103 | DD-103 | GP10000 | 10TS-D10 |
| C212 | .001 | | | CCD-102 | DD-102 | GP1000 | 10TS-D10 |
| C213 | 8 | N150 +5 | 121226 (1420354-209) | * | | | 10TCP-V82 |
| C214 | 39 | T0% | | | | CN0439 | 10TCU-Q39 |
| C216 | 3.3 | NPO +.25 | | | | CN0539 | 10TCU-Q39 |
| C217 | .01 | | | CCD-103 | DD-103 | GP10000 | 10TS-S10 |
| C218 | .01 | | | CCD-103 | DD-103 | GP10000 | 10TS-S10 |
| C219 | .82 | 10% | 136157 (1444300-235) | | | | |
| C221 | .022 | | | CCD-203 | DD-203 | GP120 | 10TS-S20 |
| C222 | .18 | N150 10% | 125842 (1420354-117) | * | | GP220 | 10TCP-Q18 |
| C223 | .002 | | | CCD-202 | DD-202 | GP2000 | 10TS-D20 |
| C224 | 2-10 | | 130129 (1474578-5) | | | | |
| C226 | .001 | 10% | | CCD-102 | DD-102 | GP1000 | 10TS-D10 |
| C227 | .001 | 10% | | CCD-102 | DD-102 | GP1000 | 10TS-D10 |
| C228 | .022 | N150 10% | 136154 (1420354-119) | | | | |
| C229 | .022 | | | CCD-203 | DD-203 | GP120 | 10TS-S20 |
| C231 | .022 | | | CCD-203 | DD-203 | GP120 | 10TS-S20 |
| C234 | .022 | | | CCD-203 | DD-203 | GP120 | 10TS-S20 |
| C236 | .022 | | | CCD-203 | DD-203 | GP120 | 10TS-S20 |
| C238 | .022 | | | CCD-203 | DD-203 | GP120 | 10TS-S20 |
| C239 | .047 | | 117334 (1096518-99) | | GP150 | | |
| C241 | .047 | | 117334 (1096518-99) | | GP150 | | |
| C243 | .047 | | 117334 (1096518-99) | | GP150 | | |
| C244 | .22 | | | 4DP-5-224 | | DPMS4P22 | 4PS-P22 |
| C247 | .047 | | 117334 (1096518-99) | | DD-503 | GP150 | 10TS-S20 |
| C251 | .022 | | 117334 (1096518-99) | | CCD-203 | | |
| C252 | .047 | | | | DD-503 | GP150 | |
| C300 | .0068 50 V | 10% | | 1DP-1-682 | CPR-6800J | DPMS6D68 | 1PB-D68 |
| C301 | .0068 50 V | 10% | | 1DP-1-682 | CPR-6800J | DPMS6D68 | 1PB-D68 |
| C302 | .047 | | 117334 (1096518-99) | | DD-503 | GP150 | |

CAPACITORS

| ITEM No. | RATING | MFR. PART No. | REPLACEMENT DATA | | | | | |
|----------|-------------|---------------------|-----------------------|--------------------|---------------------------|------------------|------------------|--|
| | | | ARCO/ELMENCO PART No. | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. | |
| C303 | .047 | 117334 (1096518-99) | 6DP-1-402 | DD-503 | | GP150 | 6PS-D40 | |
| C306 | .0039 600 V | 5% | | | | PVC624 | | |
| C313 | .047 | 117334 (1096518-99) | CCD-152 | DD-503 | DPMS604 | GP150 | | |
| C401 | .0015 | | CCD-152 | DD-152 | | GP215 | 10TS-D15 | |
| C402 | .0015 | | 1DP-2-473 | | DPMS6547 | ENF1A147 | 225P47391WD3 | |
| C403 | .047 100 V | 10% | 1DP-2-473 | | DPMS6547 | ENF1A147 | 225P47391WD3 | |
| C404 | .047 100 V | 10% | 1DP-2-104 | | DPMS2P1 | ENF1A010 | 225P10491WD3 | |
| C407 | .1 100 V | | 1DP-2-104 | | GP560 | GP356 | 10TS-T56 | |
| C408 | 560 | | CCD-561 | DD-561 | | GP356 | 10TS-T56 | |
| C409 | 560 | | CCD-561 | DD-561 | | JF268 | 10TS-D68 | |
| C411 | .0068 | | CCD-682 | DD-682 | | JF268 | 10TS-D68 | |
| C412 | .0068 | | CCD-682 | DD-682 | | JF268 | 10TS-D68 | |
| C413 | .0068 | | CCD-682 | DD-682 | | JF268 | 10TS-D68 | |
| C414 | .0068 | | CCD-682 | DD-682 | | JF268 | 10TS-D68 | |
| C416 | .033 | | CCD-203 | CK-303 | | GP130 | T6-S30 | |
| C417 | .033 | | CCD-203 | CK-303 | | GP120 | 10TS-S20 | |
| C418 | .022 | | CCD-203 | DD-203 | | GP120 | 10TS-S20 | |
| C419 | .022 | | CCD-203 | DD-203 | | GP120 | 10TS-S20 | |
| C421 | .820 | | CCD-821 | DD-821 | GP820 | GP382 | 10TS-T82 | |
| C422 | .820 | | CCD-821 | DD-821 | GP820 | GP382 | 10TS-T82 | |
| C424 | .022 | | CCD-203 | DD-203 | | GP120 | 10TS-S20 | |
| C426 | .047 100 V | 10% | 1DP-2-473 | | DPMS6547 | ENF1A147 | 225P47391WD3 | |
| C427 | .047 100 V | 10% | 1DP-2-473 | | DPMS6547 | ENF1A147 | 225P47391WD3 | |
| CT-1 | Trimmer | | | | | | | |
| CT-2 | Trimmer | | | | | | | |

(1) Part of tuning gang C101.

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

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

| ITEM No. | FUNCTION | RESIST-ANCE | REPLACEMENT DATA | | | | |
|------------|-----------------------------------|-------------|------------------------|-------------------------------------|-----------------------------|-----------------------------|-------------------------------|
| | | | MFR. PART No. | CENTRALAB PART No. | CLAROSTAT PART No. | CTS—IRC PART No. | MALLORY PART No. |
| R200 | Tuning | 10 K | 136152 (1476675-1) | | | | |
| R212 | Low End Tracking | 7500 | 137269 (1473359-6) | T-7500 or TSV-10K | C-103 | X201R752B | MTC14L1 |
| R238 | High End Tracking | 7500 | 137269 (1473359-6) | T-7500 or TSV-10K | C-103 | X201R752B | MTC14L1 |
| R243 | Muting | 500 K | 137270 (1473359-9) | TSV-500 K or T-500K | C-504 | X201R504B | MTC55L1 |
| R308 | Stereo Threshold | 500 K | 121944 (1472272-18) | TSV-500K or T-500K | C-504 | X201R504B | MTC55L1 |
| R418 | Balance | 100 K | 137272 (1472223-2) | F1-100K, SFS212, BA006, CA005 | | BU3, CF13, S54, DC1, QC1 | P15L, 3058, SH3375, S01500 |
| R422a b | Treble, Right Treble, Left | 250 K | 137273 | F2-250K, | NP-250K-Z, | BU1, CF23, CR18, | P254A, 3014, RU254A, |
| | | 250 K | (1472229-7) | R2-250K, SFS212, CPL2 | NR-250K-Z, SE-F-400, DC2 | S54, S57A, DC1 | SL45 |
| R428a b | Bass, Right Bass, Left | 500 K | 137274 | F2-500K, | NP-500K-Z, | BU1, CF25, CR20, | P55A, 3014, RU55A, |
| | | 500 K | (1472229-6) | R2-500K, SFS212, CPL2 | NR-500K-Z, SE-F-400, DC2 | S54, S57A, DC1 | SL45 |
| R438a b | Loudness, Right Loudness, Left | 250 K Taps | 136148 | | | BU1, CF108TT, | |
| | | 90 K & 170K | (1472229-5) | | | CR72TT, S516, S57A, DC1 | |
| | | 250 K Taps | | | | | |
| | | 90 K & 170K | | | | | |

CLEANING

Clean all tape contact surfaces with a soft, lint-free material and head cleaner or methyl alcohol. Use alcohol to remove oil and grease from all driving surfaces.

CAUTION: Avoid getting head cleaner on any plastic surface.

LUBRICATING

Bearings are oil-less type and do not need lubrication. Lubricate bushings lightly with #20 machine oil. Use a light film of nonhardening grease on cam surfaces.

HEAD DEMAGNETIZING

Demagnetize head when unit is serviced. Avoid using magnetic materials near head.

ADJUSTMENTS

| ADJUST | REMARKS |
|--------------|--|
| Head Height | Play a test cartridge, follow instructions with cartridge, and adjust B1 for proper response. |
| Head Azimuth | Connect an AC VTVM across right output. Play a test cartridge and adjust B2 for maximum. |
| Head Tension | Adjust B3 for 16 oz. measured at head clamping screw. |
| Play Level | Apply .01 Vrms, 1000 Hz, through 100 K resistor across left (right) channel section of R/P head. Adjust R413 (R412) for .64 Vrms at point S (T). |

TROUBLE CHART

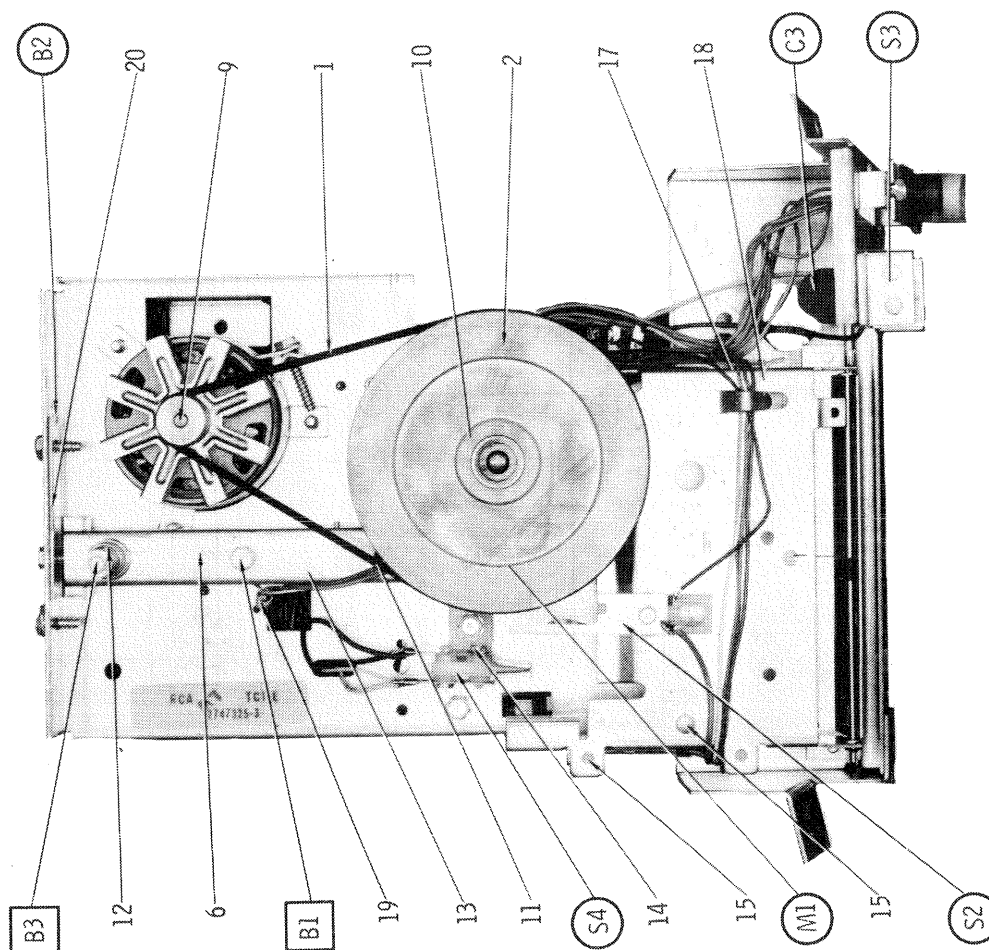
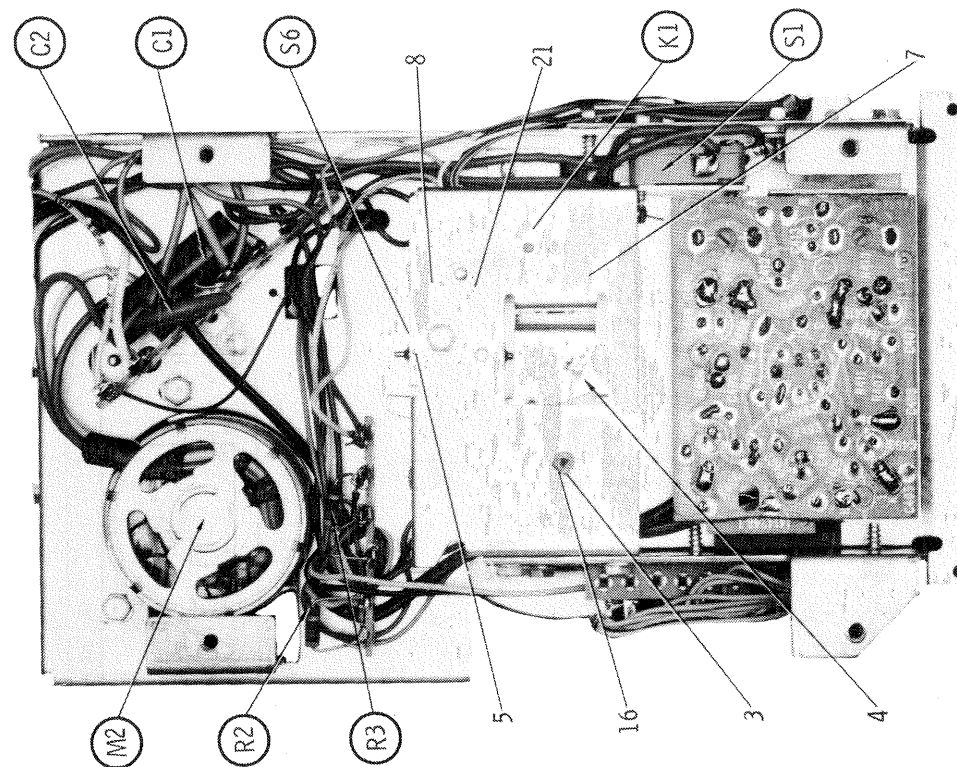
| SYMPTOM | REMARKS |
|------------------------------------|---|
| Capstan does not rotate. | Belt (1) dirty, worn, or broken. Assembly (10) binding. Motor defective or not supplied with power. |
| Track-shift mechanism inoperative. | Switch S6 dirty. Cam (3) binding or worn. Pawls (4) and (5) worn. Arms (7) and (8) binding. Solenoid K1 defective or not supplied with power. Cartridge defective. |
| Wow or Flutter. | Belt (1) dirty or worn. Capstan dirty or binding. Cartridge defective. Motor defective. |
| Sound weak or distorted. | Head dirty, misaligned, or defective. Cartridge defective. Amplifiers defective. |
| Tape is pulled from cartridge. | Cartridge defective. Capstan dirty or scored. |

MECHANICAL PARTS LIST

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|----------|----------|-------------------------------|----------|----------|------------------------|
| 1* | 138672* | Flywheel Drive Belt* | 12 | 138667 | Head Tension Spring |
| 2 | 138669 | Flywheel | 13 | | Head Height Arm |
| 3 | 138670 | Track Changing Cam | 14 | 138673 | Tape Guide |
| 4 | 138664 | Tack Changing Pawl (Assembly) | 15 | 138665 | Guide Roller (2 used) |
| 5 | | Pull Pawl | 16 | 138711 | Capstan Bearing |
| 6 | | Head Mounting Arm | 17 | 138655 | Pressure Roller Spring |
| 7 | 138661 | Track Changing Pawl Spring | 18 | 138656 | Pressure Roller |
| 8 | 138661 | Pull Pawl Spring | 19 | 102402 | Head Mounting Spring |
| 9 | 138671 | Motor Pulley (Assembly) | 20 | | Head Arm Bracket |
| 10 | 138668 | Flywheel Housing | 21 | (1) | Channel Indicator Cam |
| 11 | 138666 | Head Height Spring | | | |

* Flywheel Drive Belt - E-V/GAME Replacement Number 1425-03.
WALSCO Replacement Number 1425-03.

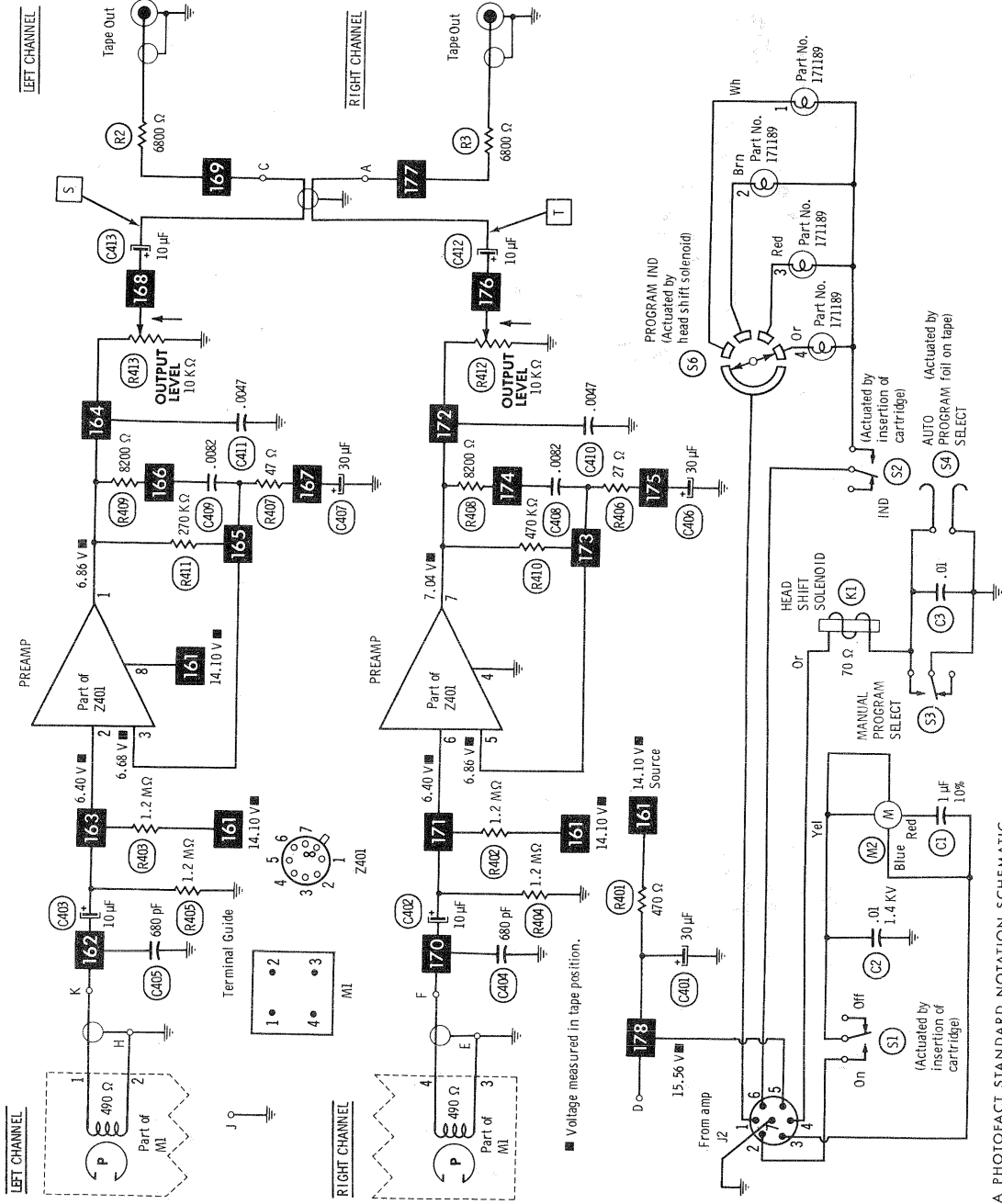
(1) Part of Switch (S6) assembly.



RCA CHASSIS
RC-1245C, RS-252M

FOLDER 4

NOTE: DEMAGNETIZE HEADS AFTER SERVICING



A PHOTOFACT STANDARD NOTATION SCHEMATIC with **CIRCUITRACE**®
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TAPE PLAYER PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS

| ITEM No. | TYPE / MFG. No./Part No. | REPLACEMENT DATA | | | |
|----------|-----------------------------|---------------------------|------------------|-------------------|-------------------|
| | | GENERAL ELECTRIC PART No. | MALLORY PART No. | MOTOROLA PART No. | SYLVANIA PART No. |
| Z401 | 138661 (144846-2) 486-1 (1) | | | | |

(1) Number on unit.

ELECTROLYTIC CAPACITORS

| ITEM No. | RATING | MFG. PART No. | REPLACEMENT DATA | | | | |
|----------|---------|-------------------|------------------|--------------------|----------------------------|------------------|------------------|
| | | | ARCO PART No. | CENTRALAB PART No. | CORNEILL-DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. |
| C401 | 30 15 V | 128055(147182-19) | ME-B-E-010 | EP15-35 | PC30-25 | MTV30CE25 | EV-1325 |
| C402 | 10 10 V | 116159(1443265-6) | RNE-A-D-010 | EP15-10 | PC10-25 | VT110A25 | EV-1322 |
| C403 | 10 15 V | 116159(1443265-6) | RNE-B-E-010 | EP15-10 | PC10-25 | VT110A25 | EV-1322 |
| C404 | 10 10 V | 116159(1443265-6) | RNE-A-D-010 | EP15-10 | PC10-25 | VT110A25 | EV-1322 |
| C405 | 30 15 V | 128055(147182-19) | ME-3-E-030 | EP15-35 | PC30-25 | MTV30CE25 | EV-1325 |
| C406 | 30 15 V | 128055(147182-19) | ME-3-E-030 | EP15-35 | PC30-25 | MTV30CE25 | EV-1325 |
| C407 | 10 10 V | 116159(1443265-6) | RNE-A-D-010 | EP15-10 | PC10-25 | VT110A25 | EV-1322 |
| C408 | 10 10 V | 116159(1443265-6) | RNE-A-D-010 | EP15-10 | PC10-25 | VT110A25 | EV-1322 |

CAPACITORS

| ITEM No. | RATING | MFG. PART No. | REPLACEMENT DATA | | | |
|----------|----------------|------------------|----------------------|----------------------------|------------------|------------------|
| | | | ARCO/ELMICO PART No. | CORNEILL DUBILIER PART No. | MALLORY PART No. | SPRAGUE PART No. |
| C1 | 1 uF 250 V 10% | 138692(144842-1) | C1-103 | AC-10000 | UAC110 | 125L-S10 |
| C2 | 0.1 1.4 kV | | CD-681 | GP680 | GP368 | 10T5-S10 |
| C3 | 0.1 1.4 kV | | CD-681 | GP680 | GP368 | 10T5-S10 |
| C4 | 0.1 1.4 kV | | CD-681 | GP680 | GP368 | 10T5-S10 |
| C5 | 0.1 1.4 kV | | CD-681 | GP680 | GP368 | 10T5-S10 |
| C6 | 0.1 1.4 kV | | CD-681 | GP680 | GP368 | 10T5-S10 |
| C7 | 0.1 1.4 kV | | CD-681 | GP680 | GP368 | 10T5-S10 |
| C8 | 0.1 1.4 kV | | CD-681 | GP680 | GP368 | 10T5-S10 |
| C9 | 0.1 1.4 kV | | CD-681 | GP680 | GP368 | 10T5-S10 |
| C10 | 0.1 1.4 kV | | CD-681 | GP680 | GP368 | 10T5-S10 |
| C11 | 0.1 1.4 kV | | CD-681 | GP680 | GP368 | 10T5-S10 |

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

| ITEM No. | FUNCTION | RESISTANCE | MFG. PART No. | REPLACEMENT DATA | | | |
|----------|---------------|------------|---------------|--------------------------|--------------------|------------------|------------------|
| | | | | CENTRALAB PART No. | CLAROSTAT PART No. | CTS-IRC PART No. | MALLORY PART No. |
| R412 | Level (Right) | 10 K | 138680 | TSV-10K (3) or C-103 (3) | | U201R103B | MTCL4L4 |
| R413 | Level (Left) | 10 K | 138680 | TSV-10K (3) or C-103 (3) | | U201R103B | MTCL4L4 |

(3) For horizontal mounting, bend the two outside terminals to fit PC board. Use jumper to connect center terminal to PC board.

TAPE HEADS

| ITEM No. | INDUCTANCE | BIAS/ERASE VOLTS (RMS) | FREQ. | MFG. PART No. | NORTONICS PART No. | DESCRIPTION |
|----------|------------|------------------------|-------|---------------|--------------------|---------------------|
| | | | | | | |
| H1 | 405 mH | | | 171883 | 5800 (1) | 8-Track Stereo Play |

(1) Use original mounting.

MISCELLANEOUS

| ITEM No. | PART NAME | PART No. | NOTES |
|----------|-----------|---------------------|-------|
| K1 | Motor | 171884(146483-1) | |
| S1 | Solenoid | 138662(1475957-501) | |
| S2 | Switch | 138663(1464828-1) | |
| S3 | Switch | 138664(1475957-501) | |
| S4 | Switch | 138665(1475957-501) | |
| S5 | Switch | 138666(1475957-501) | |
| S6 | Switch | 138667(1475957-501) | |

