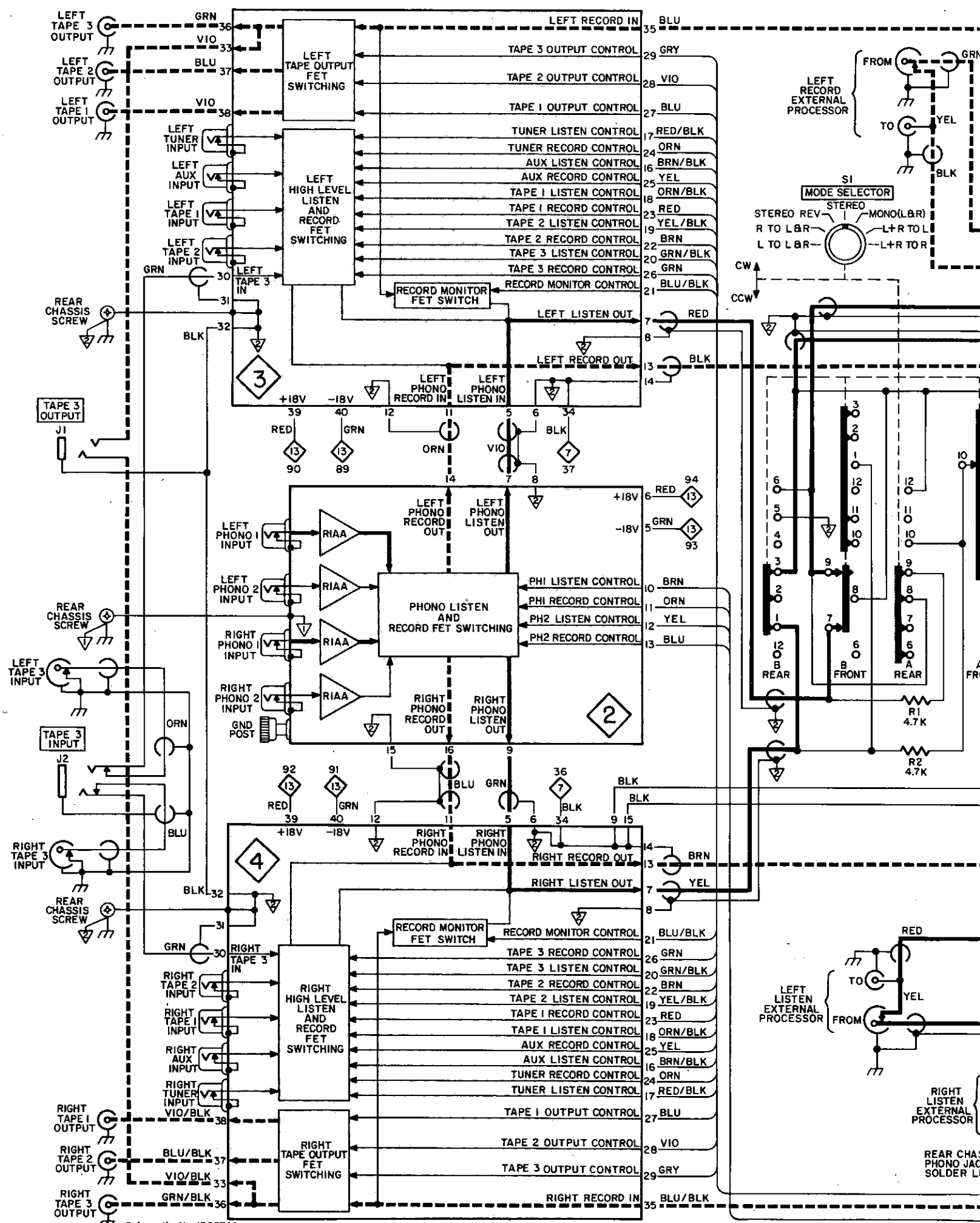
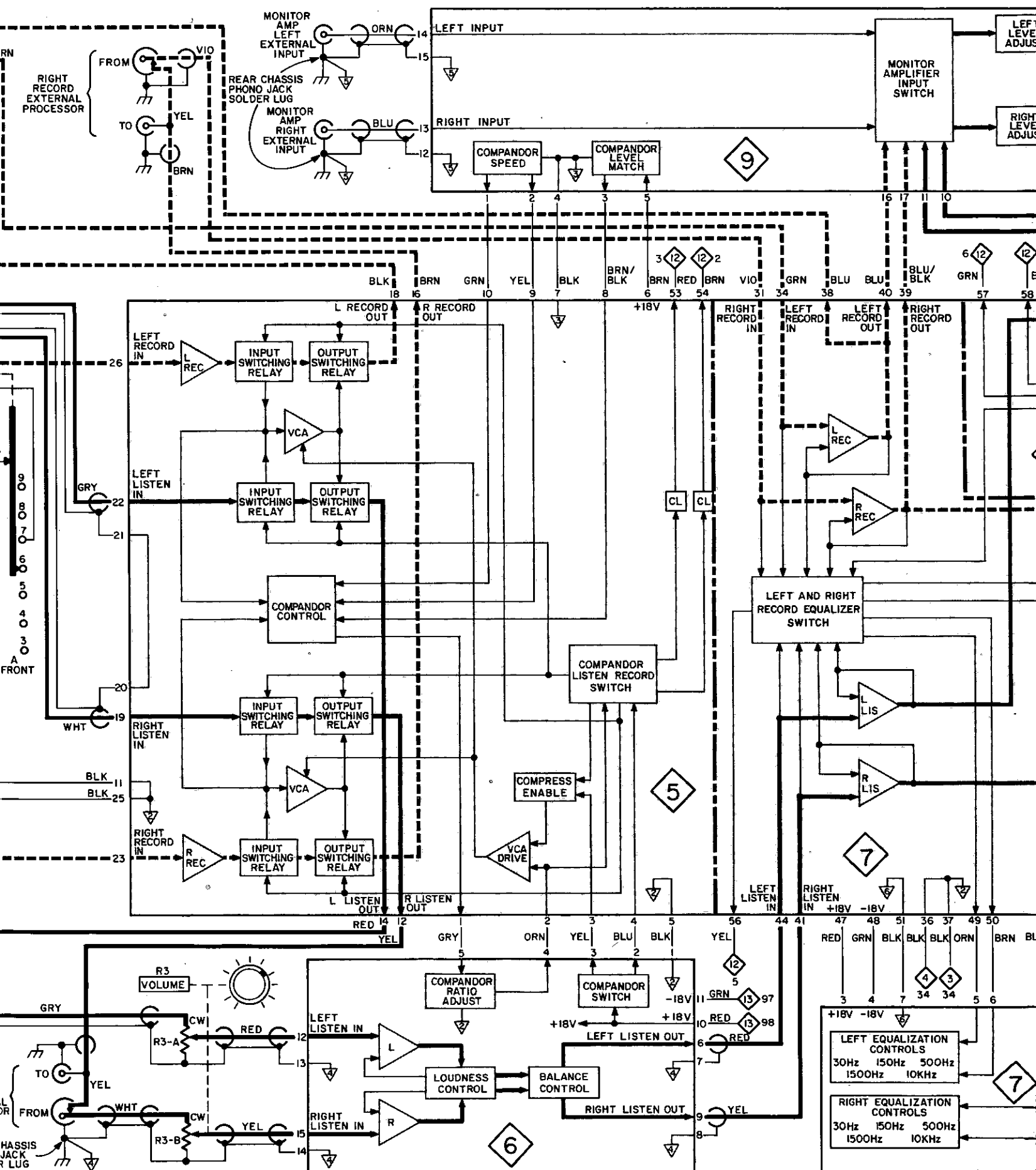
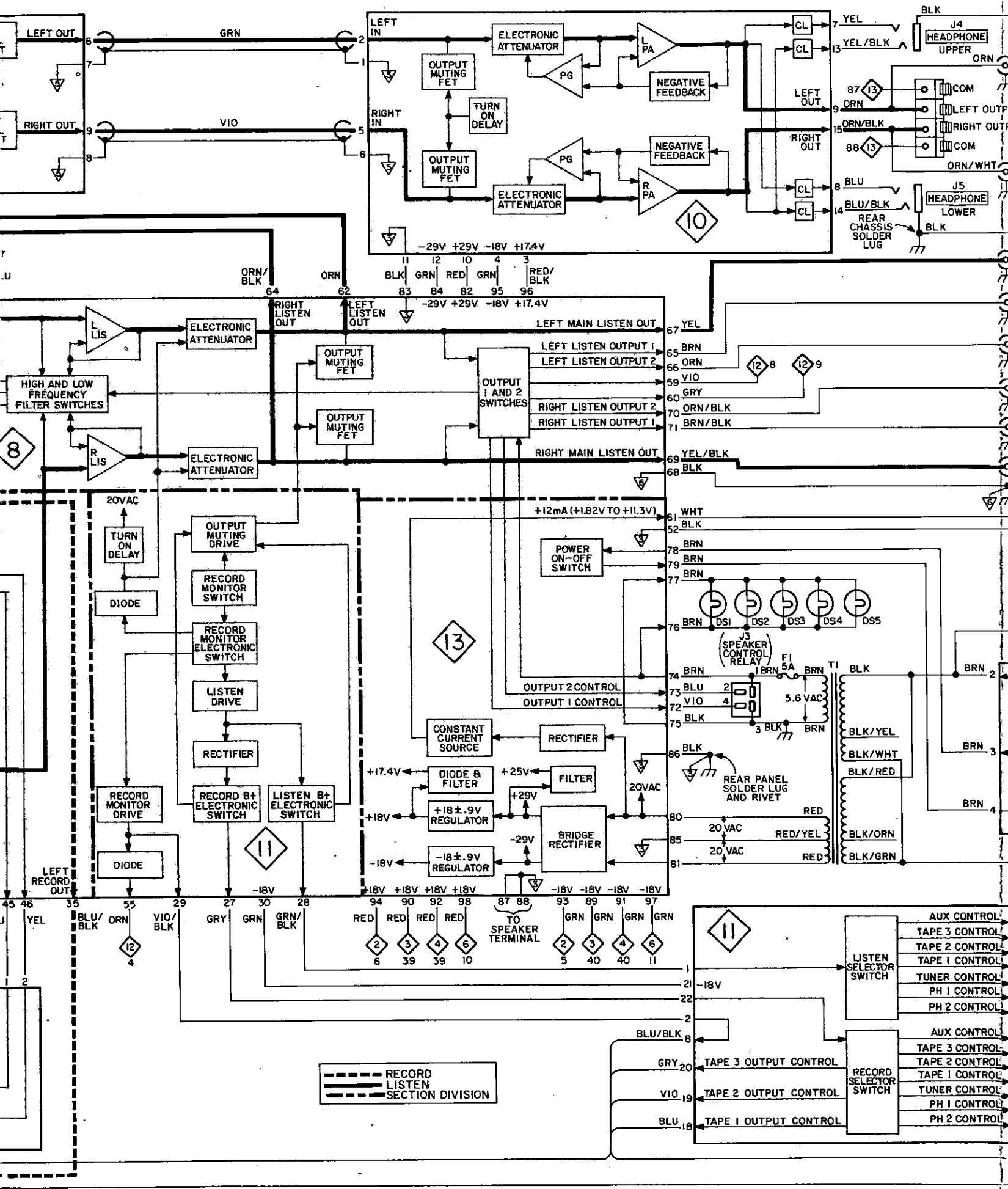
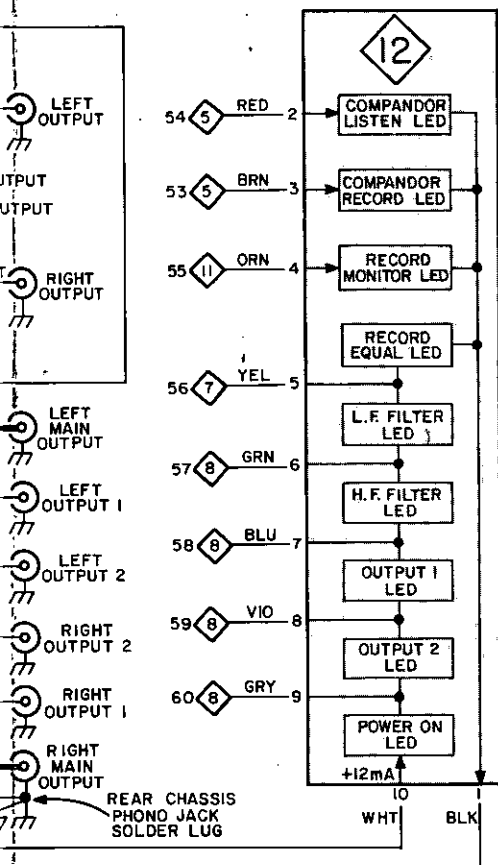










PARTS LIST

Symbol Part
No. No. Description

CAPACITORS (CD = Ceramic Disc)

- C1 061175 CD, .005 μ F, +80 -20%, 150V, UL/CSA
C2 061175 CD, .005 μ F, +80 -20%, 150V, UL/CSA

LIGHTING DEVICES (INC = Incandescent)

- *DS1 058069 INC, 6.3V, 200mA, 8610
*DS2 058069 INC, 6.3V, 200mA, 8610
*DS3 058069 INC, 6.3V, 200mA, 8610
*DS4 058069 INC, 6.3V, 200mA, 8610
*DS5 058069 INC, 6.3V, 200mA, 8610

FUSES and FUSEHOLDER (FA = Fast Acting, SB = Slo-Blo)

- *F1 089007 Fuse, SB, 5 Amp, 250V, MLD-5
*F2 089003 Fuse, SB, 1.5 Amp, 250V, MLD-1.5
*F3 089002 Fuse, FA, 1A, 250V, AGC-1
178114 Fuseholder, UL/CSA-Slot, Bussman HMM
* 178119 Dual Fuseholder, Littelfuse 357002

JACKS

- *J1 117088 Headphone Jack, 3/8"
*J2 117162 Headphone Jack, 3/8"
*J3 178070 Speaker Control Relay Jack
*J4 117088 Headphone Jack, 3/8"
*J5 117088 Headphone Jack, 3/8"

RESISTORS (CF = Carbon Film, POT = Potentiometer)

- R1 141064 CF, 4.7k Ω , 5%, 1/4W
R2 141064 CF, 4.7k Ω , 5%, 1/4W
*R3 134395 POT, 100k Ω , Volume Control

SWITCHES

- *S1 146216 Mode Selector Switch
*S2 148043 Auto-On Switch

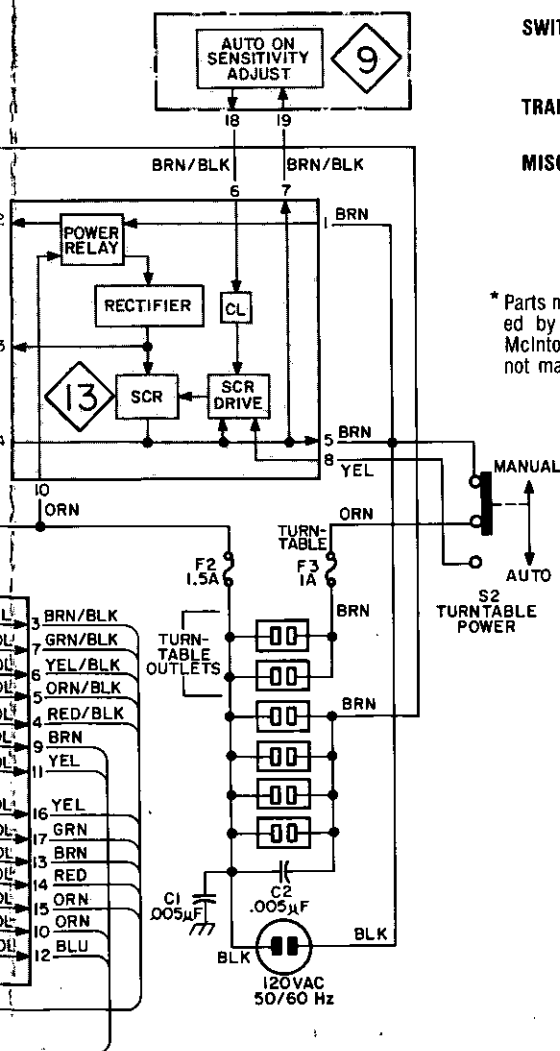
TRANSFORMERS

- *T1 045807 Power

MISCELLANEOUS

- 084038 Strain Relief (Line Cord)
117009 AC Receptacle, Black
117024 AC Receptacle, Green
170133 Line Cord, 16 ga.

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.



INSTALLATION HARDWARE

Part
No. Description

- *017156 Plastic feet, secure w/101089 screws
*038179 Mounting template
*043401 Mounting strips
*043592 Panloc shelf bracket, right
*043593 Panloc shelf bracket, left
*045142 Hardware pkg.

FRONT PANEL and TRIM

Part
No. Description

- *017230 Pushbutton, black
*017244 Pushbutton, red
*018155 Top Panel rail, secure w/100007 screws
*018160 End cap, secure w/101035 screws
*043410 Bottom panel rail, secure w/100103 screws
*045828 Pushbutton bezel, w/adhesive
*045830 Front panel glass
*045831 Front panel, complete
*090169 Mode selector knob
*090170 Listen and record knobs
*090170 Volume knob
*090171 Equalizer frequency knobs
*090186 Ratio knob (front)
*090186 Loudness knob (front)
*090187 Balance knob (rear)
*090187 Compandor knob (rear)
*101054 Tapping screws, 6-32 x 1/4, phillips, black
*104017 Knob felt washers, 3/4 dia.
*104073 Knob felt washers, 5/8 dia.

SHIPPING CARTON

Part
No. Description

- *033383 Shipping Carton only
*045942 Shipping Carton, Complete

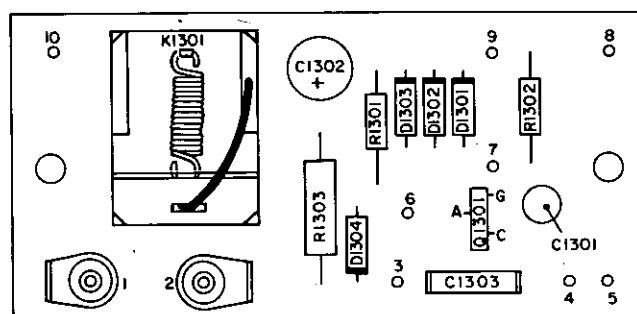
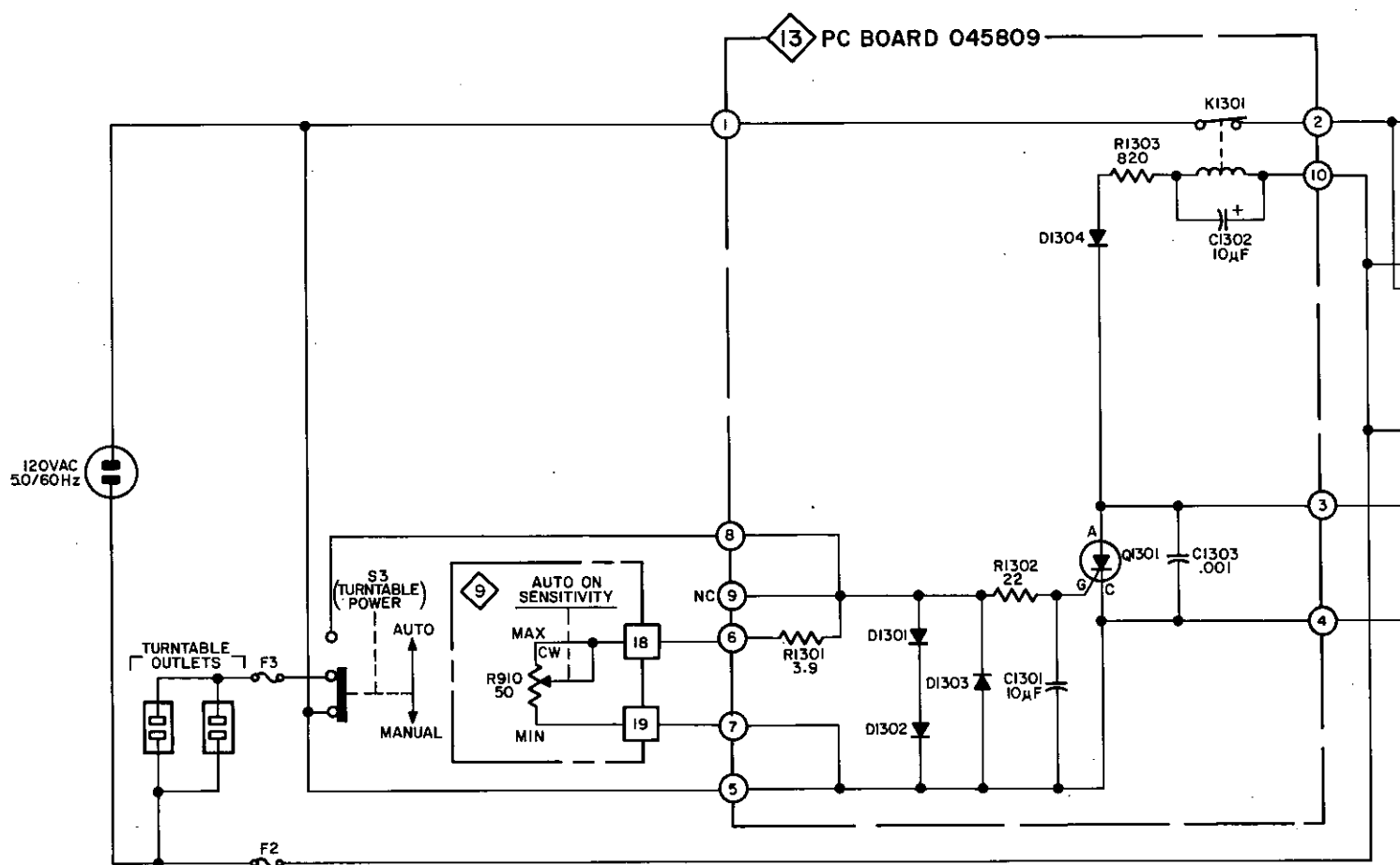
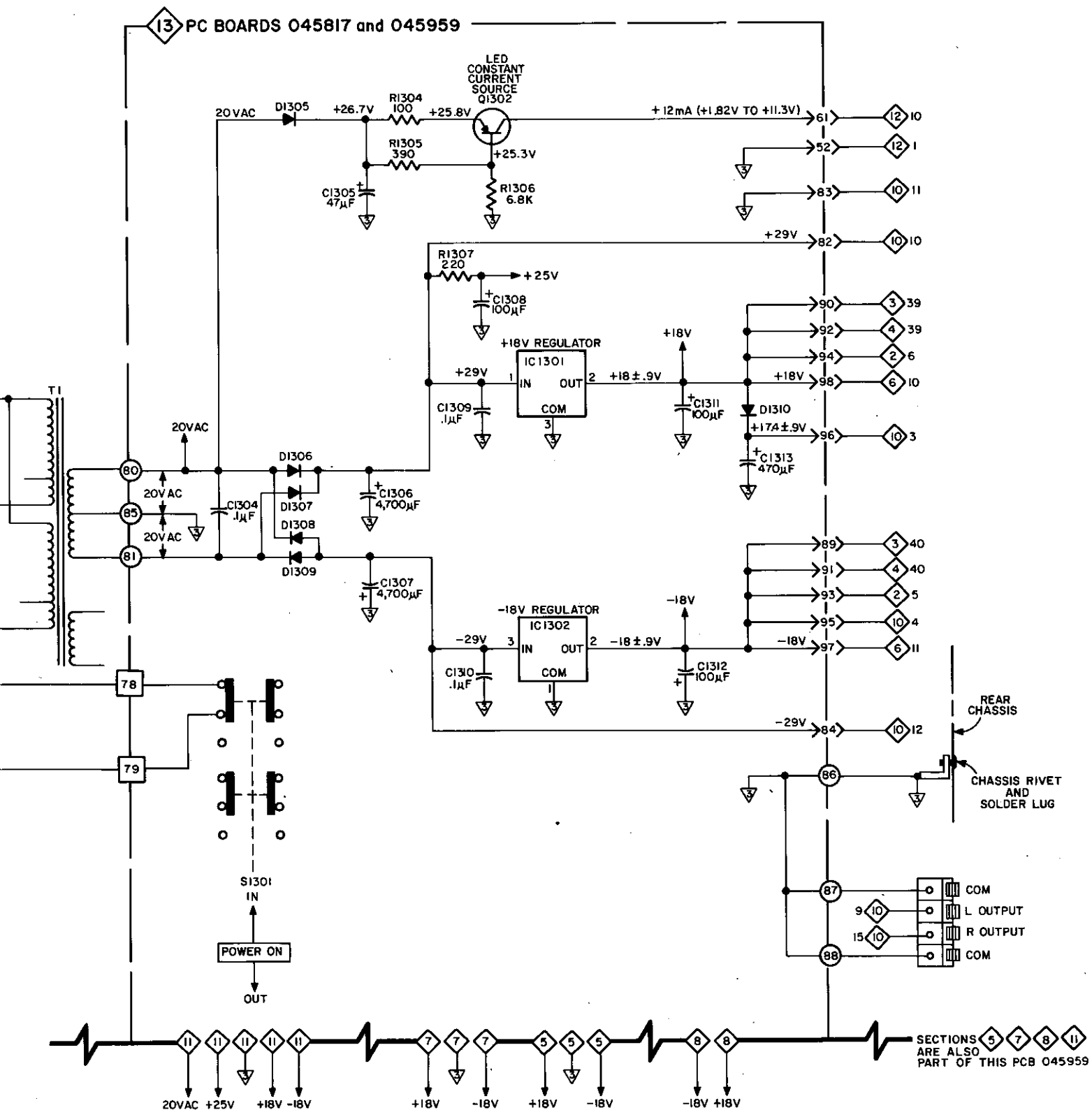


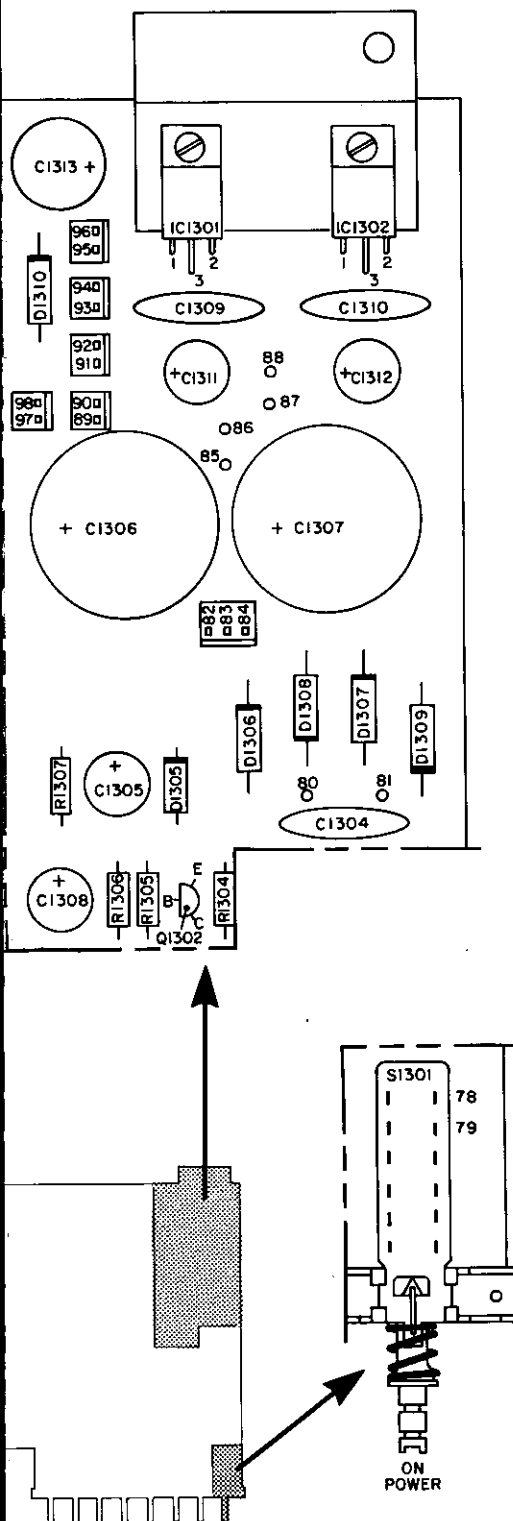
Fig. 13-1. PARTS LOCATION - PC board 045809.



Schematic No 156086A



and AUTO-ON



PARTS LIST

Symbol No. Part No. Description

CAPACITORS (ELECT = Electrolytic, PCF = Polycarbonate Film, CD = Ceramic Disc.)

*C1301	066316	ELECT, 10 μ F, 25V, NP
C1302	066320	ELECT, 10 μ F, 160V
C1303	064271	PCF, 1000pF, 1000V, DC/250V DC
C1304	061113	CD, .1 μ F/.1 μ F, +80 - 20%, 100V, TA
C1305	066274	ELECT, 47 μ F, 35V
C1306	066341	ELECT, 4700 μ F, 35V
C1307	066341	ELECT, 4700 μ F, 35V
C1308	066312	ELECT, 100 μ F, 35V
C1309	061150	CD, .1 μ F, +80 - 20%, 50V, Z5V
C1310	061150	CD, .1 μ F, +80 - 20%, 50V, Z5V
C1311	066161	ELECT, 100 μ F, 25V
C1312	066161	ELECT, 100 μ F, 25V
C1313	066334	ELECT, 470 μ F, 25V

DIODES (Si = Silicon, RECT = Rectifier, SIG = Signal)

*D1301	070031	Si, RECT, 400 PIV, 1.5A
*D1302	070031	Si, RECT, 400 PIV, 1.5A
*D1303	070031	Si, RECT, 400 PIV, 1.5A
*D1304	070031	Si, RECT, 400 PIV, 1.5A
*D1305	070047	Si, SIG, 75V, 10mA, IN4148
*D1306	070031	Si, RECT, 400 PIV, 1.5A
*D1307	070031	Si, RECT, 400 PIV, 1.5A
*D1308	070031	Si, RECT, 400 PIV, 1.5A
*D1309	070031	Si, RECT, 400 PIV, 1.5A
*D1310	070031	Si, RECT, 400 PIV, 1.5A

INTEGRATED CIRCUITS (AN = Analog, BP = Bipolar)

*IC1301	133045	AN, BP, Positive 18V Regulator, LM340T-18
*IC1302	133044	AN, BP, Negative 18V Regulator, LM320T-18

RELAYS

*K1301	087033	SPDT, 110V DC
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TRANSISTORS (Si = Silicon)

*Q1301	131012	Si, SCR, C106M1
*Q1302	132172	Si, PNP, MPS-A55

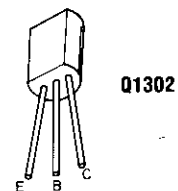
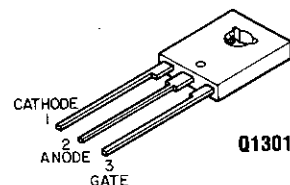
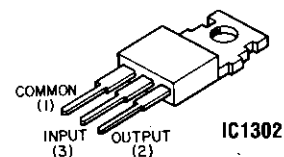
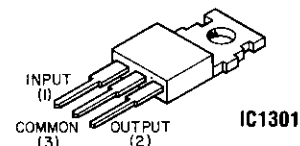
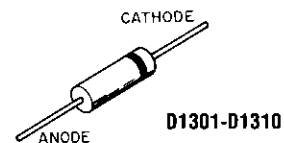
RESISTORS (CF = Carbon Film, WW = Wirewound)

R1301	141163	CF, 3.9 Ω , 5%, 1/2W
R1302	141167	CF, 22 Ω , 5%, 1/2W
*R1303	139138	WW, 820 Ω , 10%, 2W
R1304	141025	CF, 100 Ω , 5%, 1/4W
R1305	141039	CF, 390 Ω , 5%, 1/4W
R1306	141068	CF, 6.8k Ω , 5%, 1/4W
R1307	141033	CF, 220 Ω , 5%, 1/4W

SWITCHES

*S1301	150038	Pushbutton Switch (8)
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* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.



13-2. PARTS LOCATION.
Two areas (shaded)
on main PC board
045817 or 045959.

C33

Stereo Preamplifier

Schematics

039414

Sheet **1** of **3**

McIntosh

This sheet includes sections

- 1 INTERCONNECTION DIAGRAM
- 3 HIGH LEVEL INPUT and TAPE OUTPUT SWITCHING
(LEFT CHANNEL)
- 4 HIGH LEVEL INPUT and TAPE OUTPUT SWITCHING
(RIGHT CHANNEL)
- 13 POWER SUPPLY and AUTO-ON

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McIntosh Laboratory Inc. 2 Chambers Street, Binghamton, NY 13903-9990

Printed in U.S.A.

Telephone (607)723-3512

Part No. 039414

PARTS LIST

Symbol No. Part No. Description
CAPACITORS (CD = Ceramic Disc, ELECT = Electrolytic, MPE = Metalized Polyester)

C301	064182	MPE, .047μF, 5%, 63V
C302	061128	CD, 470pF, 10%, 500V, Z5F
*C303	066302	ELECT, 2.2μF, 25V, NP
C304	064182	MPE, .047μF, 5%, 63V
C305	061128	CD, 470pF, 10%, 500V, Z5F
C306	064182	MPE, .047μF, 5%, 63V
C307	061128	CD, 470pF, 10%, 500V, Z5F
*C308	066302	ELECT, 2.2μF, 25V, NP
C309	064182	MPE, .047μF, 5%, 63V
C310	061128	CD, 470pF, 10%, 500V, Z5F
C311	064182	MPE, .047μF, 5%, 63V
C312	061128	CD, 470pF, 10%, 500V, Z5F
*C313	066302	ELECT, 2.2μF, 25V, NP
C314	064182	MPE, .047μF, 5%, 63V
C315	061128	CD, 470pF, 10%, 500V, Z5F
C316	064182	MPE, .047μF, 5%, 63V
C317	061128	CD, 470pF, 10%, 500V, Z5F
*C318	066302	ELECT, 2.2μF, 25V, NP
C319	064182	MPE, .047μF, 5%, 63V
C320	061128	CD, 470pF, 10%, 500V, Z5F
C321	064182	MPE, .047μF, 5%, 63V
C322	061128	CD, 470pF, 10%, 500V, Z5F
*C323	066302	ELECT, 2.2μF, 25V, NP
C324	064182	MPE, .047μF, 5%, 63V
C325	061128	CD, 470pF, 10%, 500V, Z5F
C326	061128	CD, 470pF, 10%, 500V, Z5F
C327	064182	MPE, .047μF, 5%, 63V
C328	061128	CD, 470pF, 10%, 500V, Z5F
C329	064190	MPE, .22μF, 5%, 63V
*C330	066316	ELECT, 10μF, 25V, NP
C331	061128	CD, 470pF, 10%, 500V, Z5F
C332	064190	MPE, .22μF, 5%, 63V
*C333	066316	ELECT, 10μF, 25V, NP
C334	061128	CD, 470pF, 10%, 500V, Z5F
C335	064190	MPE, .22μF, 5%, 63V
*C336	066316	ELECT, 10μF, 25V, NP
C337	066211	ELECT, 10μF, 16V
C338	066211	ELECT, 10μF, 16V

DIODES (SIG = Signal, Si = Silicon)

*D301	070047	Si, SIG, 75V, 10mA, IN4148
*D302	070047	Si, SIG, 75V, 10mA, IN4148
*D303	070047	Si, SIG, 75V, 10mA, IN4148
*D304	070047	Si, SIG, 75V, 10mA, IN4148
*D305	070047	Si, SIG, 75V, 10mA, IN4148
*D306	070047	Si, SIG, 75V, 10mA, IN4148
*D307	070047	Si, SIG, 75V, 10mA, IN4148
*D308	070047	Si, SIG, 75V, 10mA, IN4148
*D309	070047	Si, SIG, 75V, 10mA, IN4148
*D310	070047	Si, SIG, 75V, 10mA, IN4148
*D311	070047	Si, SIG, 75V, 10mA, IN4148
*D312	070047	Si, SIG, 75V, 10mA, IN4148
*D313	070047	Si, SIG, 75V, 10mA, IN4148
*D314	070047	Si, SIG, 75V, 10mA, IN4148
*D315	070047	Si, SIG, 75V, 10mA, IN4148
*D316	070047	Si, SIG, 75V, 10mA, IN4148

TRANSISTORS (J-FET = Junction FET, Si = Silicon, N = N Channel, P = P Channel)

*Q301	132193	Si, N, J-FET, 2N4392
*Q302	132193	Si, N, J-FET, 2N4392
*Q303	132193	Si, N, J-FET, 2N4392
*Q304	132193	Si, N, J-FET, 2N4392

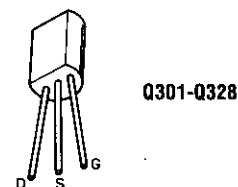
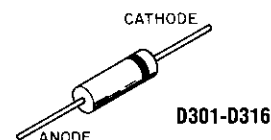
*Q305	132193	Si, N, J-FET, 2N4392
*Q306	132193	Si, N, J-FET, 2N4392
*Q307	132193	Si, N, J-FET, 2N4392
*Q308	132193	Si, N, J-FET, 2N4392
*Q309	132193	Si, N, J-FET, 2N4392
*Q310	132193	Si, N, J-FET, 2N4392
*Q311	132193	Si, N, J-FET, 2N4392
*Q312	132193	Si, N, J-FET, 2N4392
*Q313	132193	Si, N, J-FET, 2N4392
*Q314	132193	Si, N, J-FET, 2N4392
*Q315	132193	Si, N, J-FET, 2N4392
*Q316	132193	Si, N, J-FET, 2N4392
*Q317	132193	Si, N, J-FET, 2N4392
*Q318	132193	Si, N, J-FET, 2N4392
*Q319	132193	Si, N, J-FET, 2N4392
*Q320	132193	Si, N, J-FET, 2N4392
*Q321	132193	Si, N, J-FET, 2N4392
*Q322	132193	Si, N, J-FET, 2N4392
*Q323	132170	Si, P, J-FET, MPF-970
*Q324	132193	Si, N, J-FET, 2N4392
*Q325	132170	Si, P, J-FET, MPF-970
*Q326	132193	Si, N, J-FET, 2N4392
*Q327	132170	Si, P, J-FET, MPF-970
*Q328	132193	Si, N, J-FET, 2N4392

RESISTORS (CF = Carbon Film, CC = Carbon Composition)

R301	141041	CF, 470Ω, 5%, 1/4W
R302	141041	CF, 470Ω, 5%, 1/4W
R303	141041	CF, 470Ω, 5%, 1/4W
R304	141041	CF, 470Ω, 5%, 1/4W
R305	136477	CC, 22MΩ, 10%, 1/4W
R306	141116	CF, 680kΩ, 5%, 1/4W
R307	136477	CC, 22MΩ, 10%, 1/4W
R308	141106	CF, 270kΩ, 5%, 1/4W
R309	141106	CF, 270kΩ, 5%, 1/4W
R310	136477	CC, 22MΩ, 10%, 1/4W
R311	141116	CF, 680kΩ, 5%, 1/4W
R312	136477	CC, 22MΩ, 10%, 1/4W
R313	141106	CF, 270kΩ, 5%, 1/4W
R314	141106	CF, 270kΩ, 5%, 1/4W
R315	136477	CC, 22MΩ, 10%, 1/4W
R316	141116	CF, 680kΩ, 5%, 1/4W
R317	136477	CC, 22MΩ, 10%, 1/4W
R318	141106	CF, 270kΩ, 5%, 1/4W
R319	141106	CF, 270kΩ, 5%, 1/4W
R320	136477	CC, 22MΩ, 10%, 1/4W
R321	141116	CF, 680kΩ, 5%, 1/4W
R322	136477	CC, 22MΩ, 10%, 1/4W
R323	141106	CF, 270kΩ, 5%, 1/4W
R324	141106	CF, 270kΩ, 5%, 1/4W
R325	136477	CC, 22MΩ, 10%, 1/4W
R326	141041	CF, 470Ω, 5%, 1/4W
R327	141116	CF, 680kΩ, 5%, 1/4W
R328	136477	CC, 22MΩ, 10%, 1/4W
R329	141106	CF, 270kΩ, 5%, 1/4W
R330	141106	CF, 270kΩ, 5%, 1/4W
R331	141106	CF, 270kΩ, 5%, 1/4W
R332	136477	CC, 22MΩ, 10%, 1/4W
R333	141041	CF, 470Ω, 5%, 1/4W
R334	136477	CC, 22MΩ, 10%, 1/4W
R335	136477	CC, 22MΩ, 10%, 1/4W
R336	141106	CF, 270kΩ, 5%, 1/4W
R337	141041	CF, 470Ω, 5%, 1/4W

R338	136477	CC, 22MΩ, 10%, 1/4W
R339	136477	CC, 22MΩ, 10%, 1/4W
R340	141106	CF, 270kΩ, 5%, 1/4W
R341	141041	CF, 470Ω, 5%, 1/4W
R342	136477	CC, 22MΩ, 10%, 1/4W
R343	136477	CC, 22MΩ, 10%, 1/4W
R344	141106	CF, 270kΩ, 5%, 1/4W

* Parts marked with an asterisk (*) are replacement parts by our Service Department and must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.



SECTION

3

HIGH

SECTION

4

HIGH LEVEL INPUT and TAP

nt parts stock-
ordered from
number. Parts
arts suppliers.

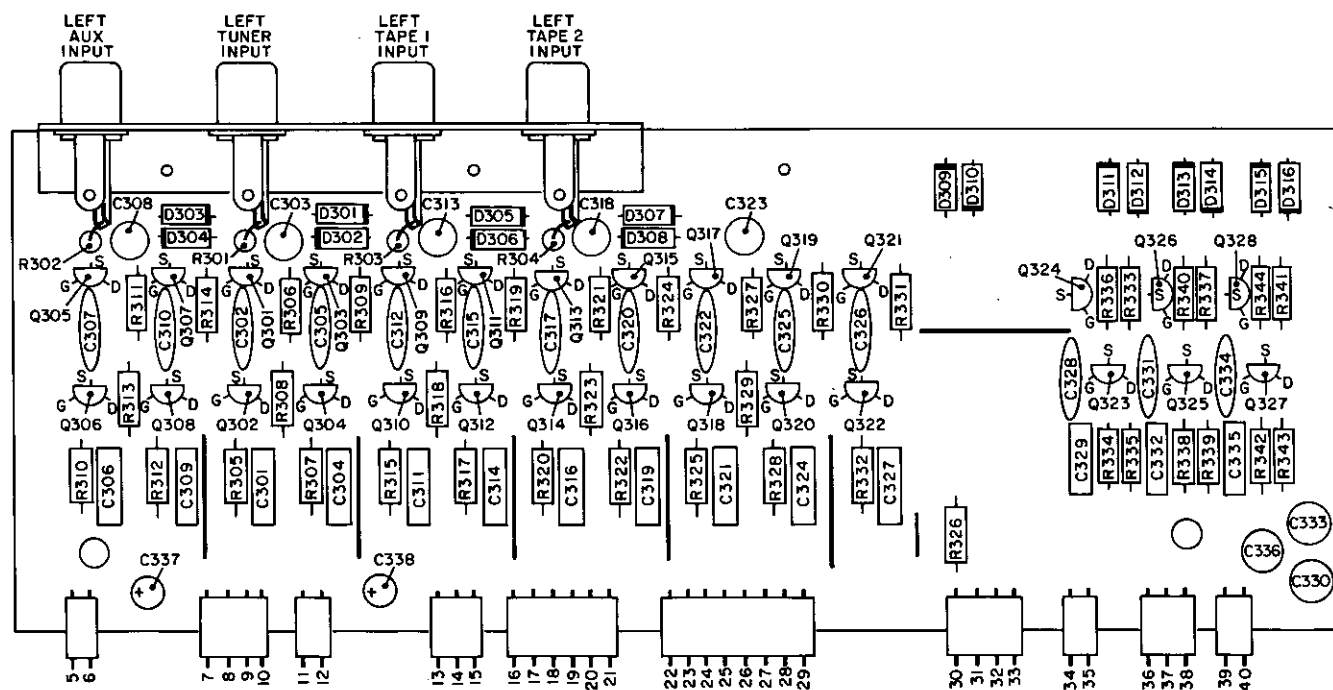
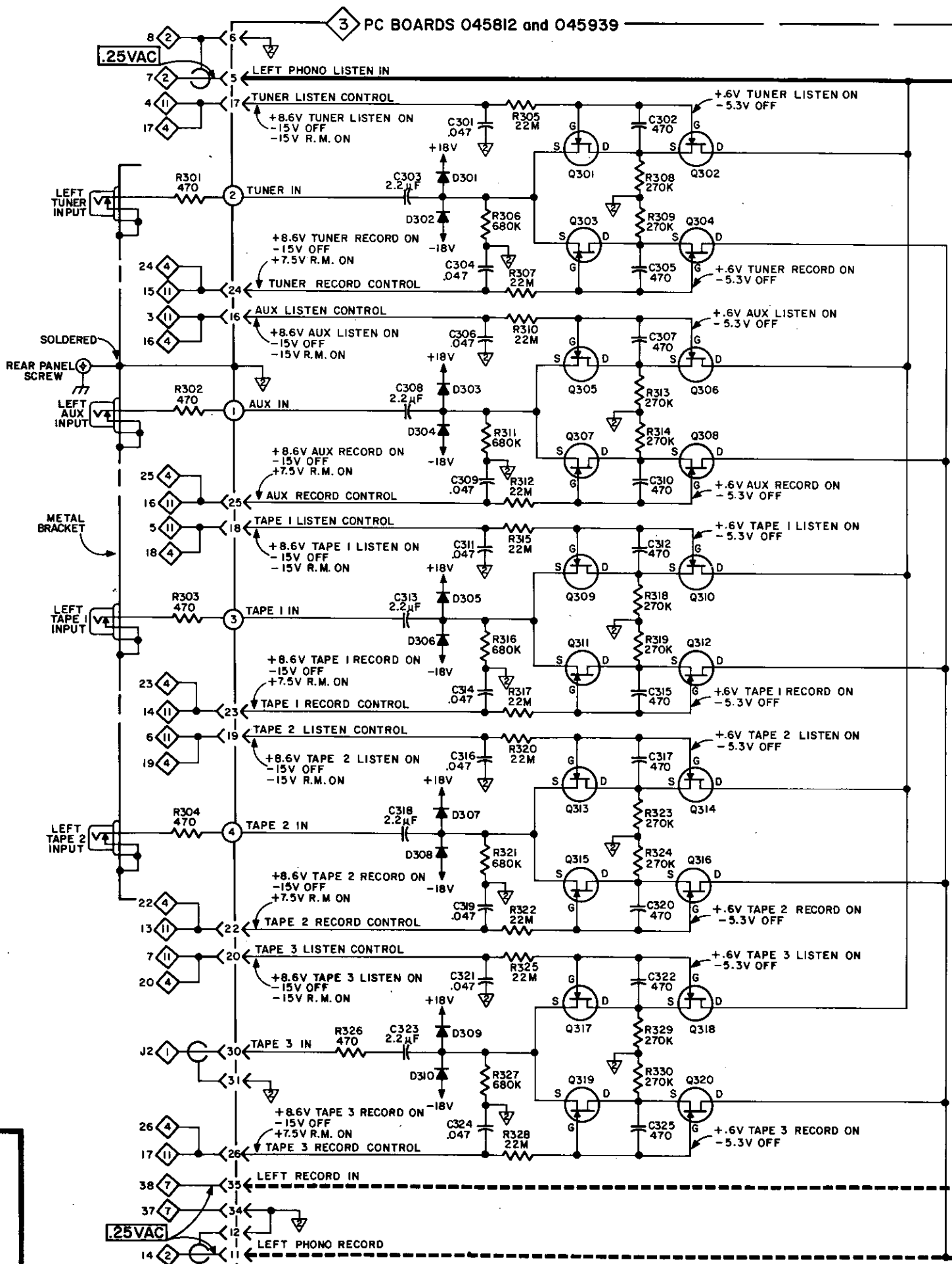
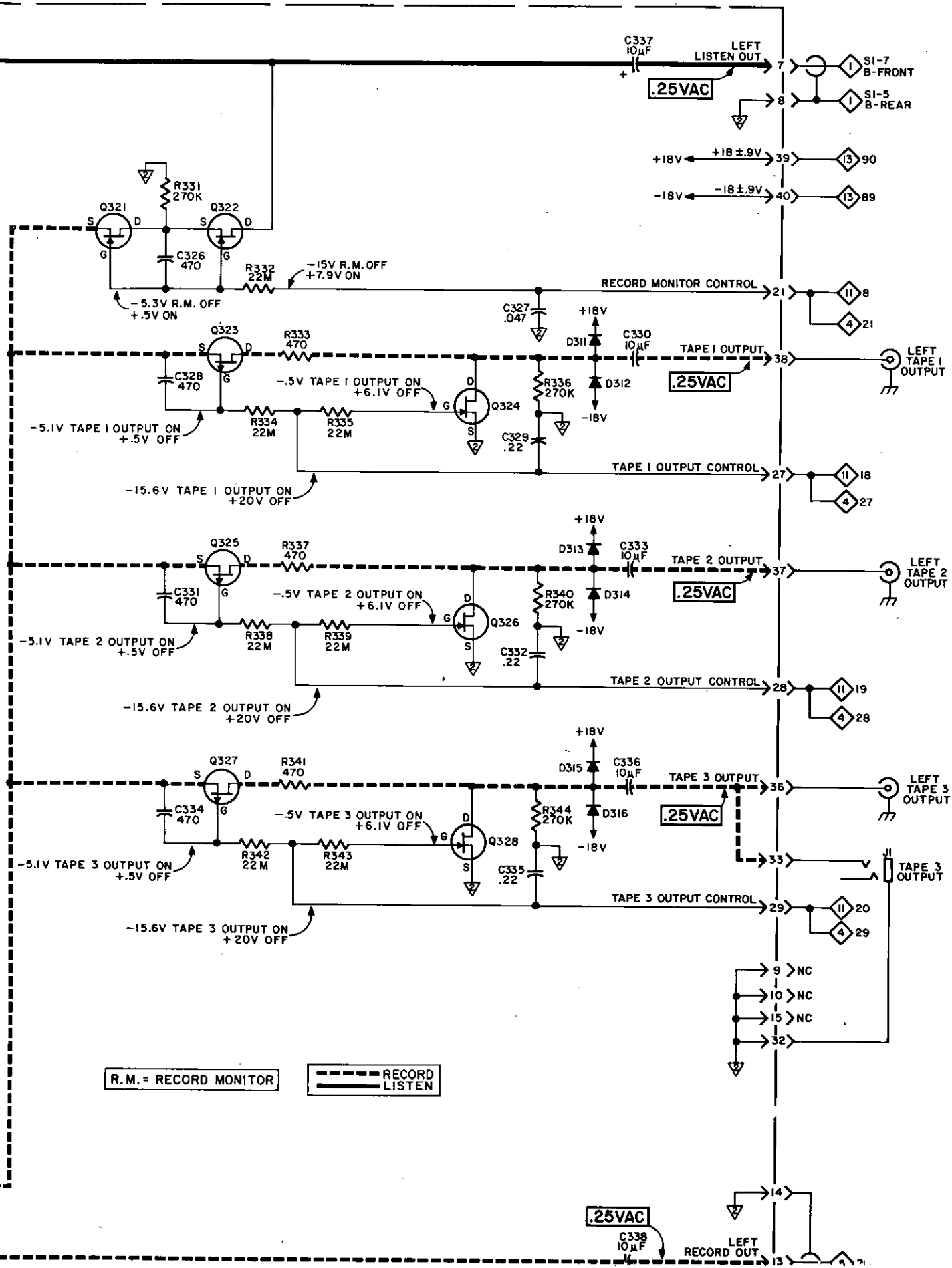
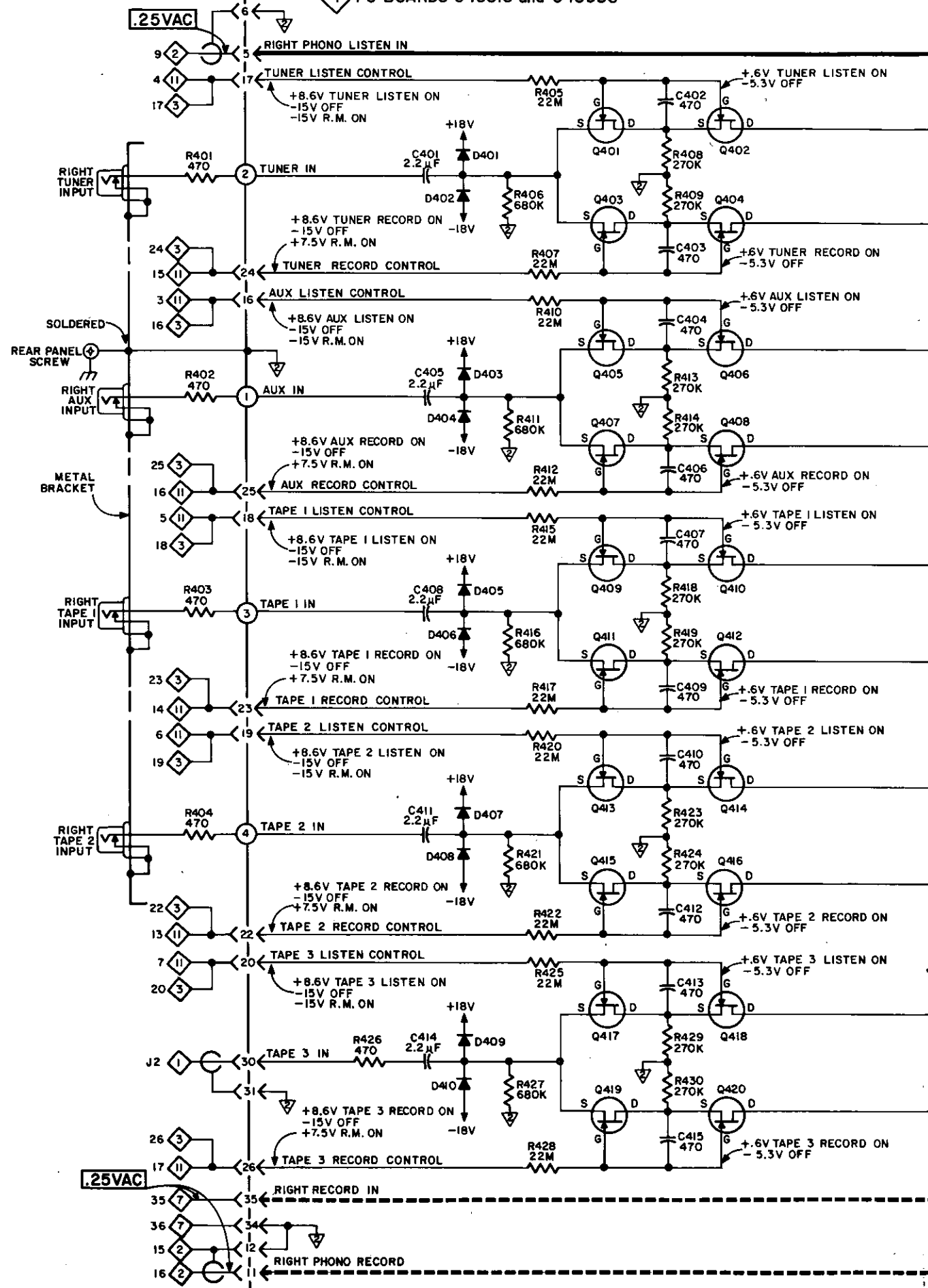


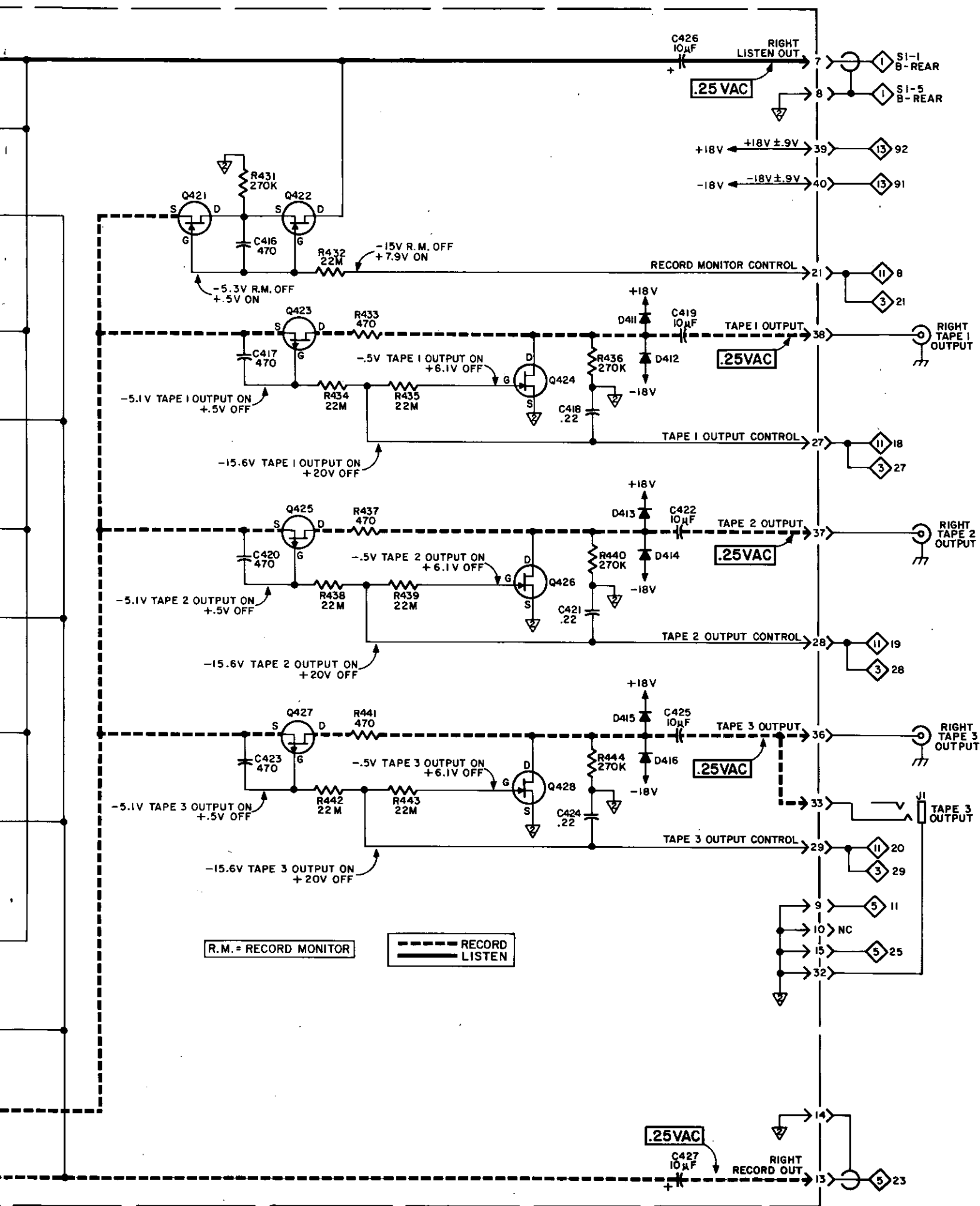
Fig. 3-1. PARTS LOCATION - PC boards 045812 or 045939.

H LEVEL INPUT and TAPE OUTPUT SWITCHING (LEFT CHANNEL) —
PE OUTPUT SWITCHING (RIGHT CHANNEL)









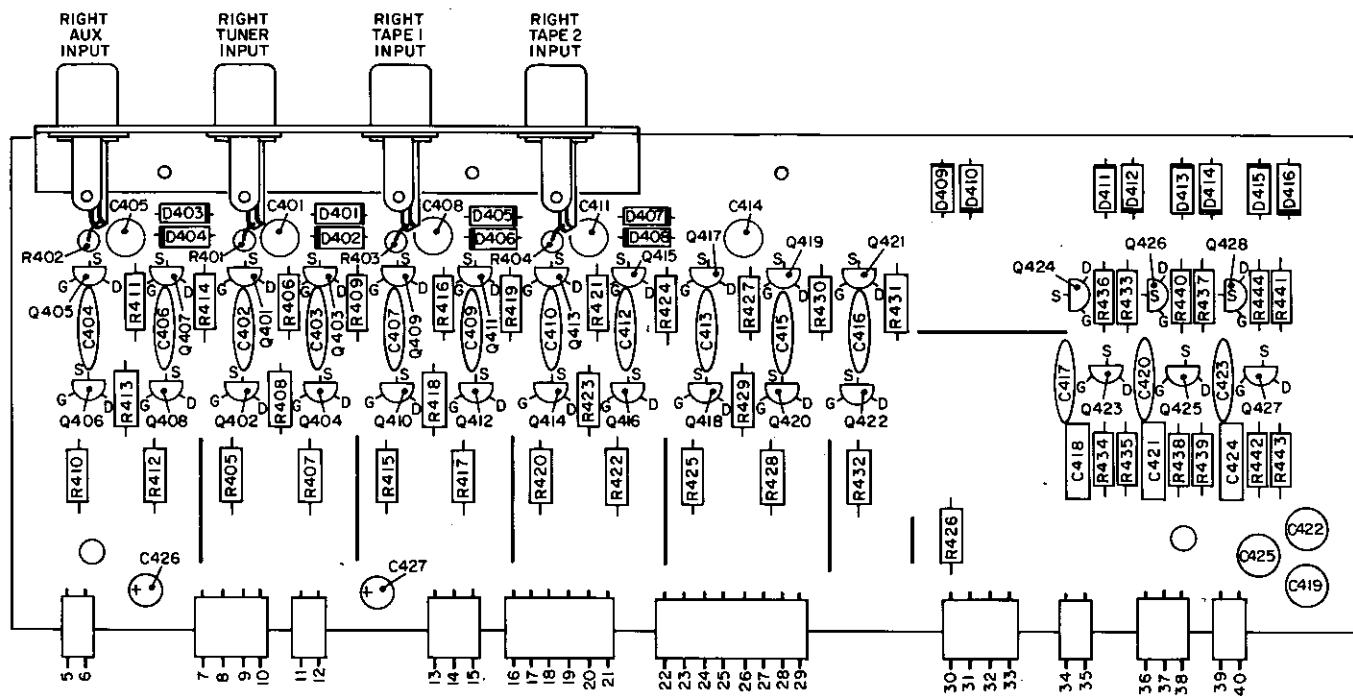


Fig. 4-1. PARTS LOCATION - PC boards 045813 or 045938.

PARTS LIST

Symbol Part
No. No. Description

CAPACITORS (CD = Ceramic Disc, ELECT = Electrolytic, MPE = Metalized Polyester)

*C401	066302	ELECT, 2.2 μ F, 25V, NP
C402	061128	CD, 470pF, 10%, 500V, Z5F
C403	061128	CD, 470pF, 10%, 500V, Z5F
C404	061128	CD, 470pF, 10%, 500V, Z5F
*C405	066302	ELECT, 2.2 μ F, 25V, NP
C406	061128	CD, 470pF, 10%, 500V, Z5F
C407	061128	CD, 470pF, 10%, 500V, Z5F
*C408	066302	ELECT, 2.2 μ F, 25V, NP
C409	061128	CD, 470pF, 10%, 500V, Z5F
C410	061128	CD, 470pF, 10%, 500V, Z5F
*C411	066302	ELECT, 2.2 μ F, 25V, NP
C412	061128	CD, 470pF, 10%, 500V, Z5F
C413	061128	CD, 470pF, 10%, 500V, Z5F
*C414	066302	ELECT, 2.2 μ F, 25V, NP
C415	061128	CD, 470pF, 10%, 500V, Z5F
C416	061128	CD, 470pF, 10%, 500V, Z5F
C417	061128	CD, 470pF, 10%, 500V, Z5F
C418	064190	MPE, .22 μ F, 5%, 63V
*C419	066316	ELECT, 10 μ F, 25%, NP
C420	061128	CD, 470pF, 10%, 500V, Z5F
C421	064190	MPE, .22 μ F, 5%, 63V
*C422	066316	ELECT, 10 μ F, 25%, NP
C423	061128	CD, 470pF, 10%, 500V, Z5F
C424	064190	MPE, .22 μ F, 5%, 63V
*C425	066316	ELECT, 10 μ F, 25%, NP
C426	066211	ELECT, 10 μ F, 16V
C427	066211	ELECT, 10 μ F, 16V

DIODES (SIG = Signal, Si = Silicon)

*D401	070047	Si, SIG, 75V, 10mA, IN4148
*D402	070047	Si, SIG, 75V, 10mA, IN4148
*D403	070047	Si, SIG, 75V, 10mA, IN4148
*D404	070047	Si, SIG, 75V, 10mA, IN4148
*D405	070047	Si, SIG, 75V, 10mA, IN4148
*D406	070047	Si, SIG, 75V, 10mA, IN4148
*D407	070047	Si, SIG, 75V, 10mA, IN4148
*D408	070047	Si, SIG, 75V, 10mA, IN4148
*D409	070047	Si, SIG, 75V, 10mA, IN4148
*D410	070047	Si, SIG, 75V, 10mA, IN4148
*D411	070047	Si, SIG, 75V, 10mA, IN4148
*D412	070047	Si, SIG, 75V, 10mA, IN4148
*D413	070047	Si, SIG, 75V, 10mA, IN4148
*D414	070047	Si, SIG, 75V, 10mA, IN4148
*D415	070047	Si, SIG, 75V, 10mA, IN4148
*D416	070047	Si, SIG, 75V, 10mA, IN4148

TRANSISTORS (J-FET = Junction FET, Si = Silicon, N = N Channel, P = P Channel)

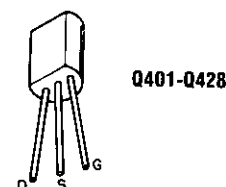
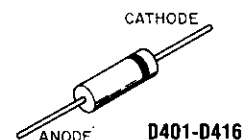
*Q401	132193	Si, N, J-FET, 2N4392
*Q402	132193	Si, N, J-FET, 2N4392
*Q403	132193	Si, N, J-FET, 2N4392
*Q404	132193	Si, N, J-FET, 2N4392
*Q405	132193	Si, N, J-FET, 2N4392
*Q406	132193	Si, N, J-FET, 2N4392
*Q407	132193	Si, N, J-FET, 2N4392
*Q408	132193	Si, N, J-FET, 2N4392
*Q409	132193	Si, N, J-FET, 2N4392
*Q410	132193	Si, N, J-FET, 2N4392
*Q411	132193	Si, N, J-FET, 2N4392
*Q412	132193	Si, N, J-FET, 2N4392
*Q413	132193	Si, N, J-FET, 2N4392
*Q414	132193	Si, N, J-FET, 2N4392
*Q415	132193	Si, N, J-FET, 2N4392
*Q416	132193	Si, N, J-FET, 2N4392
*Q417	132193	Si, N, J-FET, 2N4392
*Q418	132193	Si, N, J-FET, 2N4392
*Q419	132193	Si, N, J-FET, 2N4392
*Q420	132193	Si, N, J-FET, 2N4392

*Q421	132193	Si, N, J-FET, 2N4392
*Q422	132193	Si, N, J-FET, 2N4392
*Q423	132170	Si, P, J-FET, MPF-970
*Q424	132193	Si, N, J-FET, 2N4392
*Q425	132170	Si, P, J-FET, MPF-970
*Q426	132193	Si, N, J-FET, 2N4392
*Q427	132170	Si, P, J-FET, MPF-970
*Q428	132193	Si, N, J-FET, 2N4392

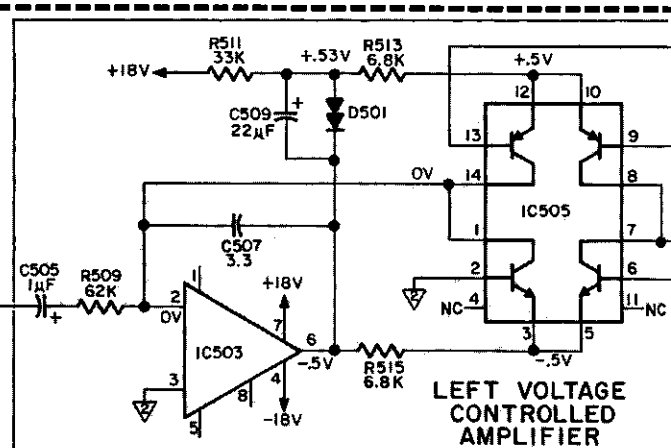
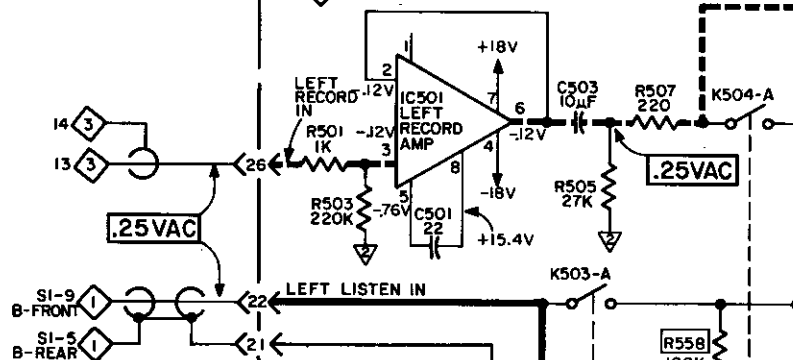
RESISTORS (CF = Carbon Film, CC = Carbon Composition)

R401	141041	CF, 470 Ω , 5%, 1/4W
R402	141041	CF, 470 Ω , 5%, 1/4W
R403	141041	CF, 470 Ω , 5%, 1/4W
R404	141041	CF, 470 Ω , 5%, 1/4W
R405	136477	CC, 22M Ω , 10%, 1/4W
R406	141116	CF, 680k Ω , 5%, 1/4W
R407	136477	CC, 22M Ω , 10%, 1/4W
R408	141106	CF, 270k Ω , 5%, 1/4W
R409	141106	CF, 270k Ω , 5%, 1/4W
R410	136477	CC, 22M Ω , 10%, 1/4W
R411	141116	CF, 680k Ω , 5%, 1/4W
R412	136477	CC, 22M Ω , 10%, 1/4W
R413	141106	CF, 270k Ω , 5%, 1/4W
R414	141106	CF, 270k Ω , 5%, 1/4W
R415	136477	CC, 22M Ω , 10%, 1/4W
R416	141116	CF, 680k Ω , 5%, 1/4W
R417	136477	CC, 22M Ω , 10%, 1/4W
R418	141106	CF, 270k Ω , 5%, 1/4W
R419	141106	CF, 270k Ω , 5%, 1/4W
R420	136477	CC, 22M Ω , 10%, 1/4W
R421	141116	CF, 680k Ω , 5%, 1/4W
R422	136477	CC, 22M Ω , 10%, 1/4W
R423	141106	CF, 270k Ω , 5%, 1/4W
R424	141106	CF, 270k Ω , 5%, 1/4W
R425	136477	CC, 22M Ω , 10%, 1/4W
R426	141041	CF, 470 Ω , 5%, 1/4W
R427	141116	CF, 680k Ω , 5%, 1/4W
R428	136477	CC, 22M Ω , 10%, 1/4W
R429	141106	CF, 270k Ω , 5%, 1/4W
R430	141106	CF, 270k Ω , 5%, 1/4W
R431	141106	CF, 270k Ω , 5%, 1/4W
R432	136477	CC, 22M Ω , 10%, 1/4W
R433	141041	CF, 470 Ω , 5%, 1/4W
R434	136477	CC, 22M Ω , 10%, 1/4W
R435	136477	CC, 22M Ω , 10%, 1/4W
R436	141106	CF, 270k Ω , 5%, 1/4W
R437	141041	CF, 470 Ω , 5%, 1/4W
R438	136477	CC, 22M Ω , 10%, 1/4W
R439	136477	CC, 22M Ω , 10%, 1/4W
R440	141106	CF, 270k Ω , 5%, 1/4W
R441	141041	CF, 470 Ω , 5%, 1/4W
R442	136477	CC, 22M Ω , 10%, 1/4W
R443	136477	CC, 22M Ω , 10%, 1/4W
R444	141106	CF, 270k Ω , 5%, 1/4W

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.

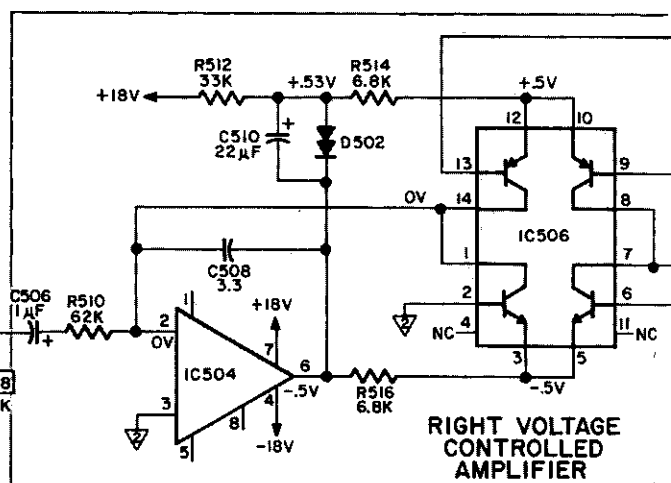
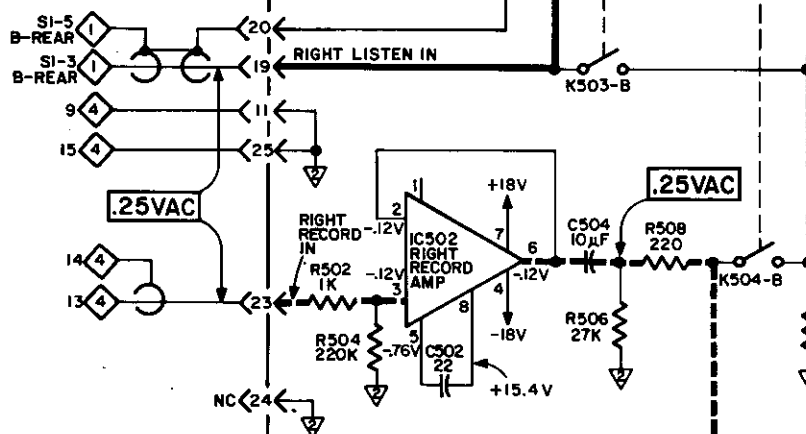
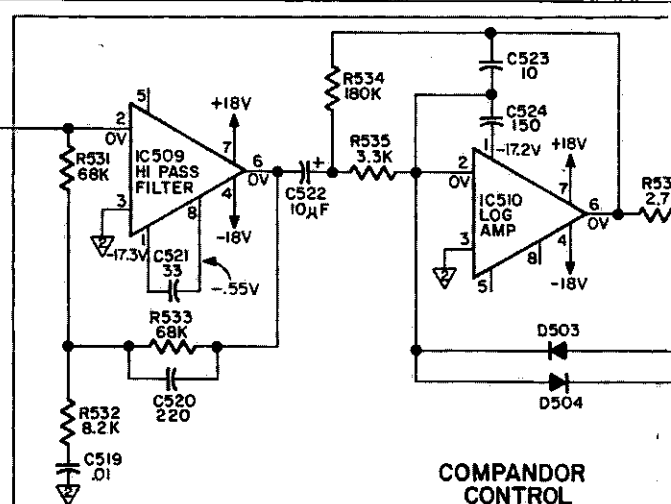


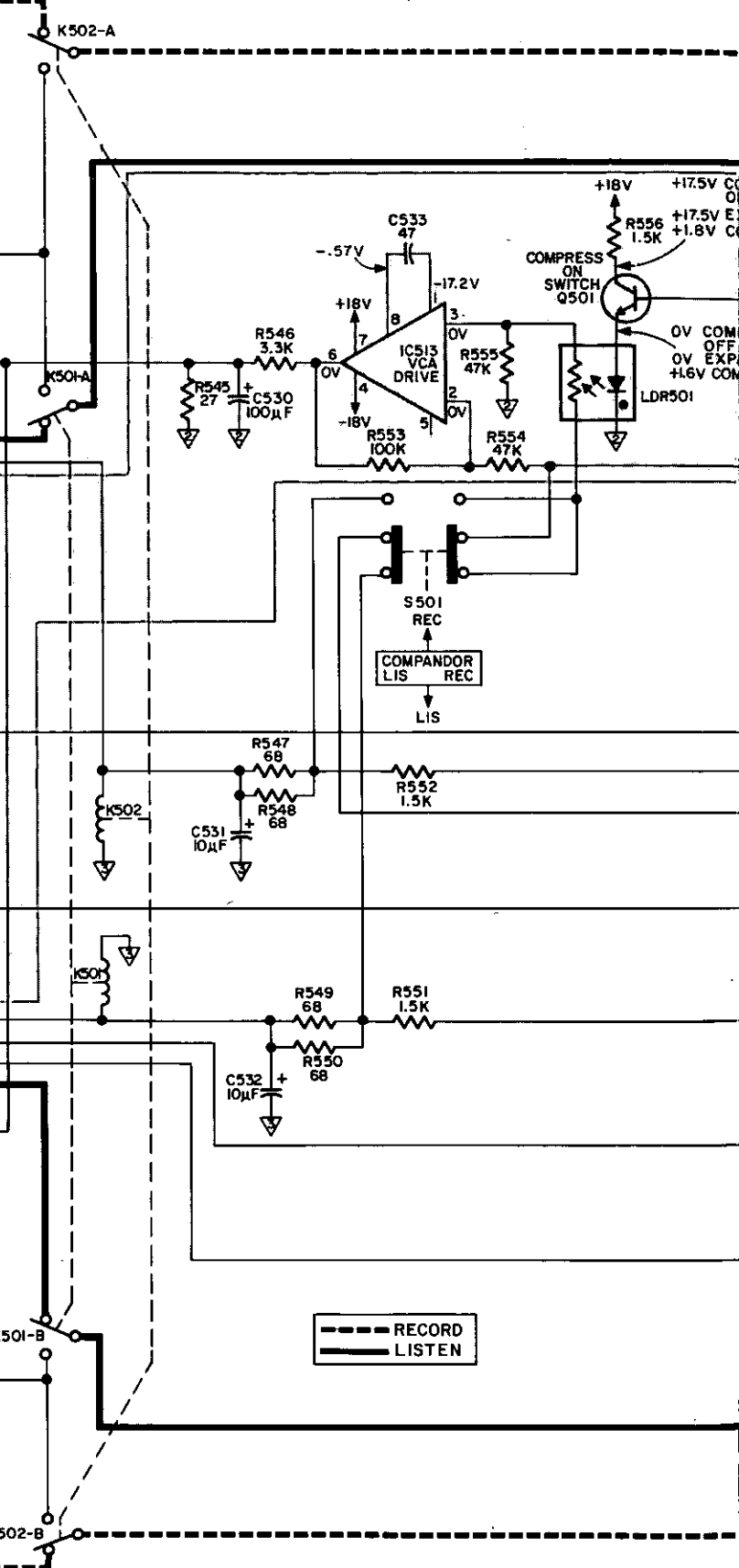
5 PC BOARDS 045817 and 045959

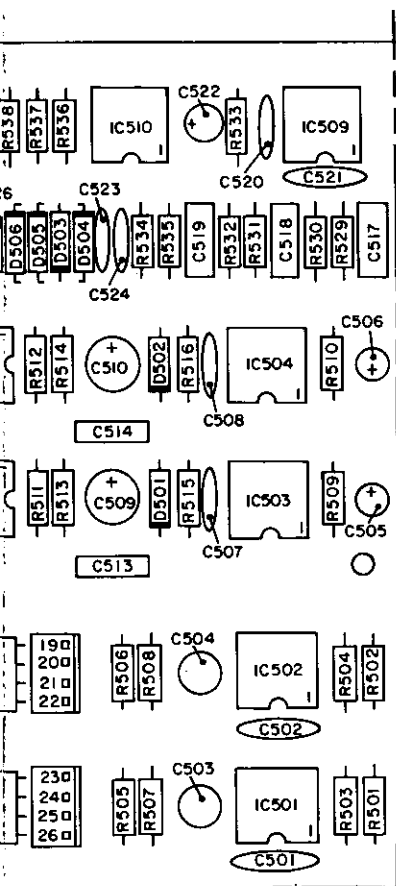


NOTES

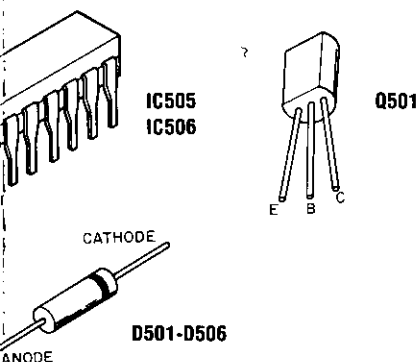
- 5-1. BIAS ADJUSTMENT - Preset the following front panel controls:
 Volume... Fully CW
 Compandor... Expand
 Ratio... 1:1
 Adjust R517 (L channel) and R518 (R channel) for minimum distortion at 2.5 volts, 2kHz at MAIN OUTPUT.







5-1. PARTS LOCATION -
Two areas (shaded)
on main PC board
045817 or 045959.



PARTS LIST

Symbol No. **Part No.** **Description**
CAPACITORS (CD = Ceramic Disc, ELECT = Electrolytic, MPE = Metallized Polyester)

C501 061014 CD, 22pF, 10%, 500V, NPO
C502 061014 CD, 22pF, 10%, 500V, NPO
*C503 066316 ELECT, 10μF, 25V, NP
*C504 066316 ELECT, 10μF, 25V, NP
C505 066242 ELECT, 1μF, 50V
C506 066242 ELECT, 1μF, 50V
C507 061087 CD, 3.3μF, 10%, 500V, NPO
*C508 061087 CD, 3.3μF, 10%, 500V, NPO
C509 066214 ELECT, 22μF, 35V
C510 066214 ELECT, 22μF, 35V
C511 061016 CD, 33pF, 10%, 500V, NPO
C512 061016 CD, 33pF, 10%, 500V, NPO
C513 064254 MPE, 1μF, 10%, 63V
C514 064254 MPE, 1μF, 10%, 63V
*C515 066277 ELECT, 3.3μF, 20%, 50V, NP
*C516 066277 ELECT, 3.3μF, 20%, 50V, NP
C517 064174 MPE, .01μF, 5%, 63V
C518 064174 MPE, .01μF, 5%, 63V
C519 064174 MPE, .01μF, 5%, 63V
C520 061027 CD, 220pF, 10%, 500V, Z5F
C521 061016 CD, 33pF, 10%, 500V, NPO
C522 066211 ELECT, 10μF, 16V
C523 061131 CD, 10pF, 10%, NPO
C524 061024 CD, 150pF, 10%, 500V, Z5F
C525 061016 CD, 33pF, 10%, 500V, NPO
C526 066211 ELECT, 10μF, 16V
C527 066214 ELECT, 22μF, 35V
C528 066226 ELECT, 100μF, 16V
C529 061016 CD, 33pF, 10%, 500V, NPO
C530 066226 ELECT, 100μF, 16V
C531 066211 ELECT, 10μF, 16V
C532 066211 ELECT, 10μF, 16V
C533 061055 CD, 47pF, 10%, 500V, N470

DIODES (Si = Silicon, STAB = Stabistor, SIG = Signal)

*D501 070096 Si, STAB, 1.1V, 500μA, Selected MZ2361
*D502 070096 Si, STAB, 1.1V, 500μA, Selected MZ2361
*D503 070047 Si, SIG, 75V, 10mA, IN4148
*D504 070047 Si, SIG, 75V, 10mA, IN4148
*D505 070047 Si, SIG, 75V, 10mA, IN4148
*D506 070047 Si, SIG, 75V, 10mA, IN4148

INTEGRATED CIRCUITS (AN = Analog, BP = Bipolar, BI-FET = Bi Polar Field Effect)

*IC501 133066 AN, BP, Operation Amp., NE-5534AN
*IC502 133066 AN, BP, Operation Amp., NE-5534AN
*IC503 133043 AN, BI-FET, Operational Amp., LF-356-1M
*IC504 133043 AN, BI-FET, Operational Amp., LF-356-1M
*IC505 133040 AN, BP, Quad Complimentary Transistor Array, MPQ6100A
*IC506 133040 AN, BP, Quad Complimentary Transistor Array, MPQ6100A
*IC507 133043 AN, BI-FET, Operational Amp., LF-356-1M
*IC508 133043 AN, BI-FET, Operational Amp., LF-356-1M
*IC509 133068 AN, BP, Operation Amp, LM201A
*IC510 133068 AN, BP, Operation Amp, LM201A
*IC511 133068 AN, BP, Operation Amp, LM201A
*IC512 133068 AN, BP, Operation Amp, LM201A
*IC513 133068 AN, BP, Operation Amp, LM201A

RELAYS

*K501 087034 DPDT, 12V, 29mA
*K502 087034 DPDT, 12V, 29mA
*K503 087024 DPST, 12V
*K504 087024 DPST, 12V

LIGHT DEPENDENT RESISTORS

*LDR501 144070 LDR, CLM6000

TRANSISTORS (Si = Silicon)

*Q501 132143 Si, NPN, MPS-D05

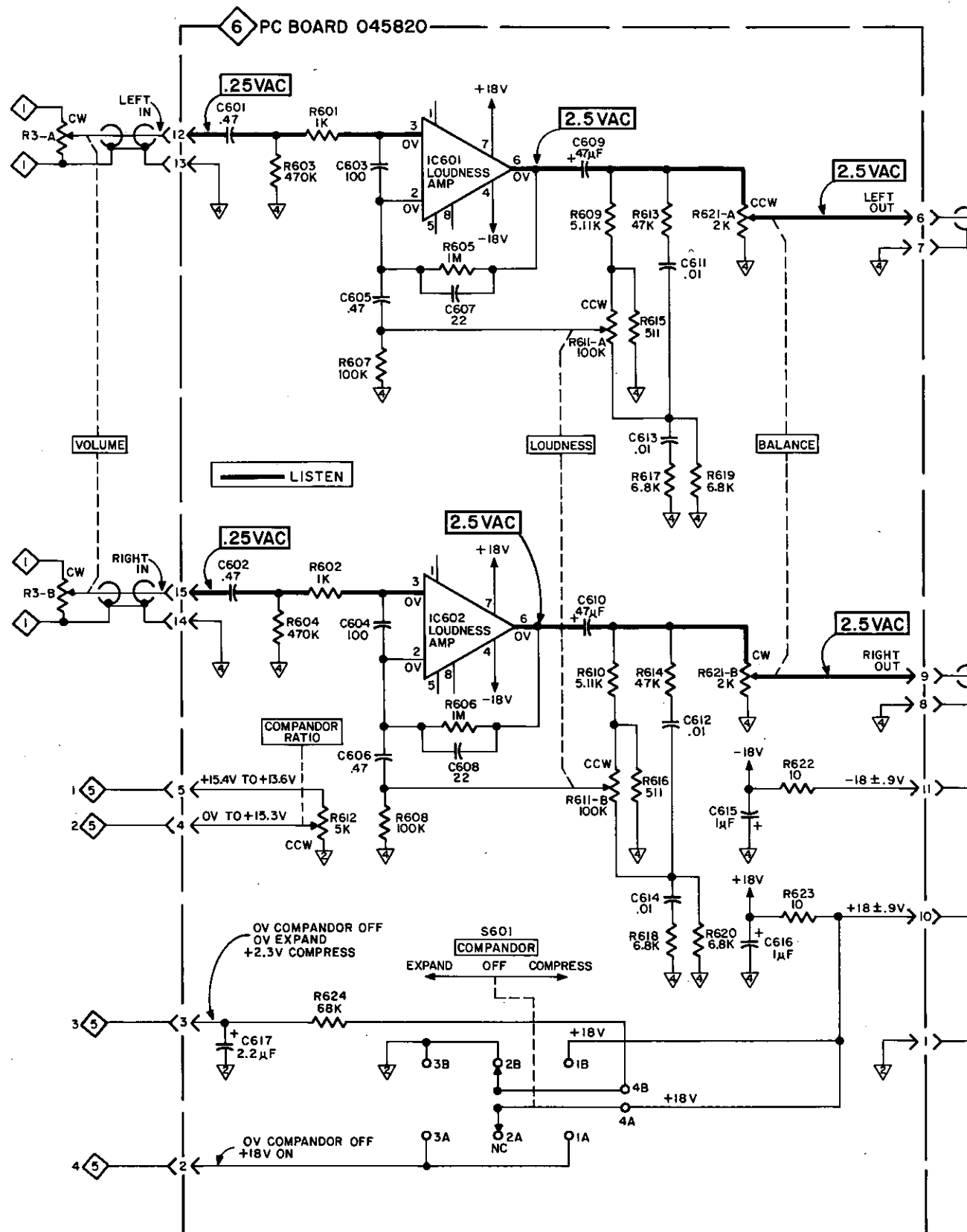
RESISTORS (CF = Carbon Film, MF = Metal Film, POT = Potentiometer)

R501 141049 CF, 1kΩ, 5%, 1/4W
R502 141049 CF, 1kΩ, 5%, 1/4W
R503 141104 CF, 220kΩ, 5%, 1/4W
R504 141104 CF, 220kΩ, 5%, 1/4W
R505 141082 CF, 27kΩ, 5%, 1/4W
R506 141082 CF, 27kΩ, 5%, 1/4W
R507 141033 CF, 220Ω, 5%, 1/4W
R508 141033 CF, 220Ω, 5%, 1/4W
R509 141091 CF, 62kΩ, 5%, 1/4W
R510 141091 CF, 62kΩ, 5%, 1/4W
R511 141084 CF, 33kΩ, 5%, 1/4W
R512 141084 CF, 33kΩ, 5%, 1/4W
R513 141068 CF, 6.8kΩ, 5%, 1/4W
R514 141068 CF, 6.8kΩ, 5%, 1/4W
R515 141068 CF, 6.8kΩ, 5%, 1/4W
R516 141068 CF, 6.8kΩ, 5%, 1/4W
*R517 134324 POT, 50kΩ, Linear
*R518 134324 POT, 50kΩ, Linear
R519 141088 CF, 47kΩ, 5%, 1/4W
R520 141088 CF, 47kΩ, 5%, 1/4W
R521 141136 CF, 10Ω, 5%, 1/4W
R522 141136 CF, 10Ω, 5%, 1/4W
R523 141091 CF, 62kΩ, 5%, 1/4W
R524 141091 CF, 62kΩ, 5%, 1/4W
R525 141033 CF, 220Ω, 5%, 1/4W
R526 141033 CF, 220Ω, 5%, 1/4W
R527 141080 CF, 22kΩ, 5%, 1/4W
R528 141080 CF, 22kΩ, 5%, 1/4W
R529 141102 CF, 180kΩ, 5%, 1/4W
R530 141102 CF, 180kΩ, 5%, 1/4W
R531 141092 CF, 68kΩ, 5%, 1/4W
R532 141070 CF, 8.2kΩ, 5%, 1/4W
R533 141092 CF, 68kΩ, 5%, 1/4W
R534 141102 CF, 180kΩ, 5%, 1/4W
R535 141060 CF, 3.3kΩ, 5%, 1/4W
R536 141059 CF, 2.7kΩ, 5%, 1/4W
*R537 144053 MF, 10kΩ, 1%, 1/4W
*R538 144053 MF, 10kΩ, 1%, 1/4W
R539 141066 CF, 5.6kΩ, 5%, 1/4W
R540 141114 CF, 560kΩ, 5%, 1/4W
R541 141160 CF, 3kΩ, 5%, 1/4W
R542 141096 CF, 100kΩ, 5%, 1/4W
R543 141039 CF, 390Ω, 5%, 1/4W
R544 141112 S/N CX1001 to CX1654: CF, 470kΩ, 5%, 1/4W
141110 S/N CX1655 and above: CF, 390kΩ, 5%, 1/4W....(7419)
R545 141146 CF, 27Ω, 5%, 1/4W
R546 141060 CF, 3.3kΩ, 5%, 1/4W
R547 141156 CF, 68Ω, 5%, 1/4W
R548 141156 CF, 68Ω, 5%, 1/4W
R549 141156 CF, 68Ω, 5%, 1/4W
R550 141156 CF, 68Ω, 5%, 1/4W
R551 141053 CF, 1.5kΩ, 5%, 1/4W
R552 141053 CF, 1.5kΩ, 5%, 1/4W
R553 141096 CF, 100kΩ, 5%, 1/4W
R554 141088 CF, 47kΩ, 5%, 1/4W
R555 141088 CF, 47kΩ, 5%, 1/4W
R556 141053 CF, 1.5kΩ, 5%, 1/4W
R557 141096 S/N CX2597 and above: CF, 100kΩ, 5%, 1/4W....(7495)
R558 141096 S/N CX2597 and above: CF, 100kΩ, 5%, 1/4W....(7495)

SWITCHES

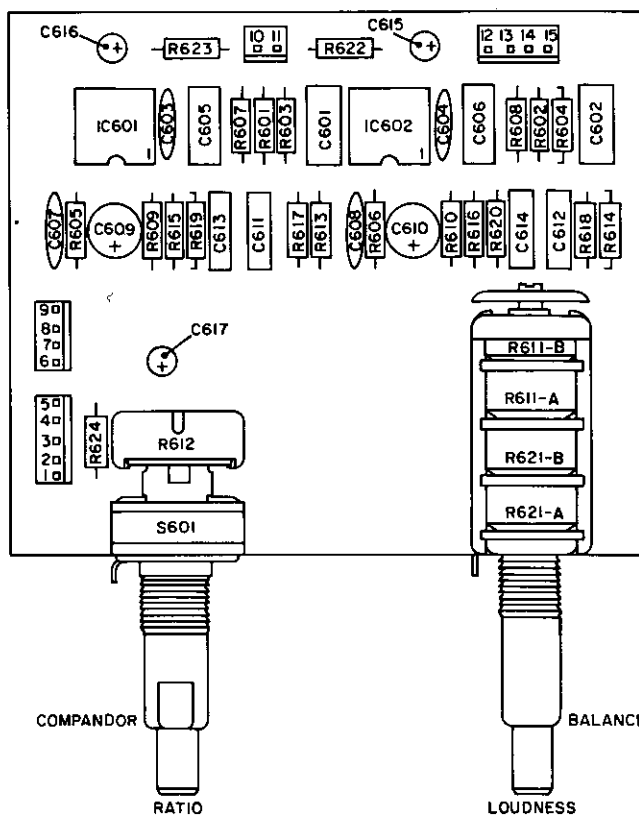
*S501 150038 Pushbutton Switch (8)

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.



LOUDNESS, BALANCE and COMPANDOR CONTROLS

Fig. 6-1. PARTS LOCATION - PC board 045820.



PARTS LIST

Symbol No.	Part No.	Descr
------------	----------	-------

CAPACITORS (CD = Ceramic Disc)

MPE = Metallized P

C601	064194	MPE, .47
C602	064194	MPE, .47
C603	061023	CD, 100p
C604	061023	CD, 100p
C605	064194	MPE, .47
C606	064194	MPE, .47
C607	061014	CD, 22pF
C608	061014	CD, 22pF
C609	066215	ELECT, 4
C610	066215	ELECT, 4
C611	064174	MPE, .01
C612	064174	MPE, .01
C613	064174	MPE, .01
C614	064174	MPE, .01
C615	066242	ELECT, 1
C616	066242	ELECT, 1
C617	066237	ELECT, 2

INTEGRATED CIRCUITS (AN = A

*IC601 133066 AN, BP, C

*IC602 133066 AN, BP, C

RESISTORS CF = Carbon Film, I

POT = Potentiometer

R601	141049	CF, 1kΩ
R602	141049	CF, 1kΩ
R603	141112	CF, 470k
R604	141112	CF, 470k
R605	141120	CF, 1MΩ
R606	141120	CF, 1MΩ
R607	141096	CF, 100k
R608	141096	CF, 100k
*R609	144083	MF, 5.1k
*R610	144083	MF, 5.1k
*R611/R621	134397	POT, Bal
*R612/S601	134398	POT, Com
R613	141088	CF, 47kΩ
R614	141088	CF, 47kΩ
*R615	144123	MF, 511k
*R616	144123	MF, 511k
R617	141068	CF, 6.8k
R618	141068	CF, 6.8k
R619	141068	CF, 6.8k
R620	141068	CF, 6.8k
*R621/R611	134397	POT, Bal
*R622	141136	CF, 10Ω
*R623	141136	CF, 10Ω
R624	141092	CF, 68kΩ

SWITCHES

*S601/R612 134398 POT, Com

* Parts marked with an asterisk (*) are not stocked by our Service Department. These parts must be obtained from McIntosh. These parts must be obtained from McIntosh.

tion

ELECT = Electrolytic,

lyester)

F, 5%, 63V

F, 5%, 63V

, 10%, 500V, N1500

, 10%, 500V, N1500

F, 5%, 63V

F, 5%, 63V

, 10%, 500V, NPO

, 10%, 500V, NPO

μF, 16V

μF, 16V

F, 5%, 63V

F, 5%, 63V

F, 5%, 63V

F, 5%, 63V

F, 50V

F, 50V

2μF, 50V

alog, BP = Bipolar)

peration Amp., NE-5534AN

peration Amp., NE-5534AN

IF = Metal Film,

5%, 1/4W

5%, 1/4W

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, 5%, 1/4W

GENERAL NOTES

1. If the symbol number is enclosed in a box, refer to the parts list for earlier values and serial number ranges.
2. Unless otherwise noted, all voltages indicated on the schematics are measured under the following conditions:
 - a. AC input at 120 volts, 50/60 Hz.
 - b. All voltages are $\pm 20\%$ with respect to ground except for the regulated circuits in the power supply. A *high impedance voltmeter must be used.*
 - c. The voltages enclosed in a box (sections 2 through 10) are signal voltages that are measured with a 2mV, 1kHz signal connected to both channels of the PHONO 1 input jacks.
 - d. Front panel controls are set at:

RECORD	PH 1
LISTEN	PH 1
MODE	STEREO
EQUALIZERS (5)	CENTER DETENT
VOLUME	FULLY CW
BALANCE	CENTER DETENT
LOUDNESS	FLAT
COMPANDOR	OFF
PUSHBUTTONS (7)	OUT
POWER	ON
 - e. Monitor amplifier top panel controls are set at:

LEFT GAIN	FULLY CW
RIGHT GAIN	FULLY CW
INPUT	LISTEN
3. Unless otherwise specified:
 - a. Resistor values are in ohms.
 - b. Capacitor values smaller than 1 are in microfarads (μ F), and capacitance values greater than 1 are in picofarads (pF).
 - c. Inductor values are in microhenries (μ H).

) are replacement parts stock-
and must be ordered from
ordered by part number. Parts
from electronic parts suppliers.

C33

Stereo Preamplifier

Schematics

039415

Sheet **2** of **3**

McIntosh

This sheet includes sections

- 2 PHONO PREAMP and SWITCHING ASSEMBLY
- 5 COMPANDOR and COMPANDOR SWITCHING
- 6 LOUDNESS, BALANCE and COMPANDOR CONTROLS
- 9 TOP COVER CONTROLS
- 10 MONITOR AMPLIFIER

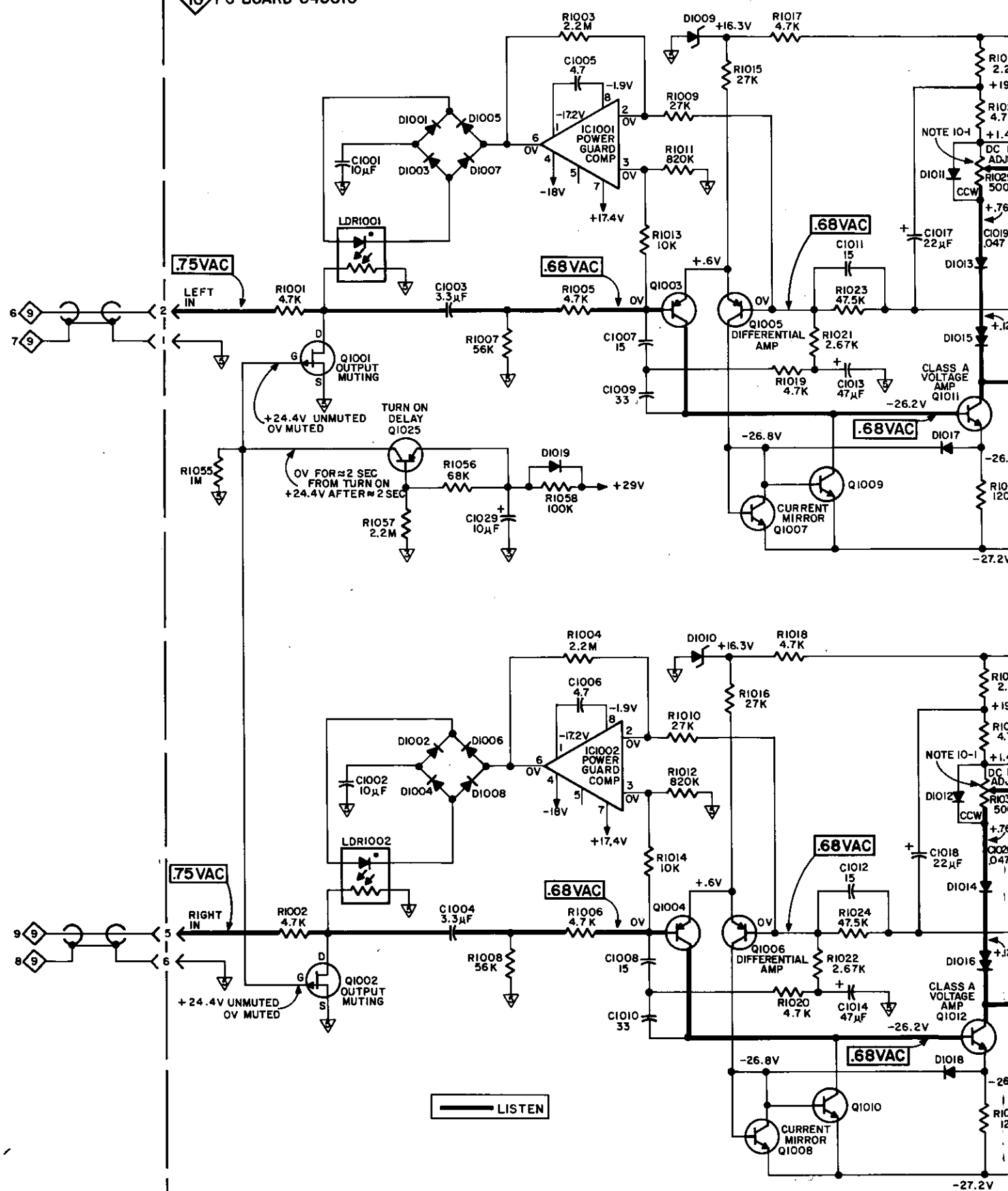
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Printed in U.S.A.

Telephone (607)723-3512

Part No. 039415



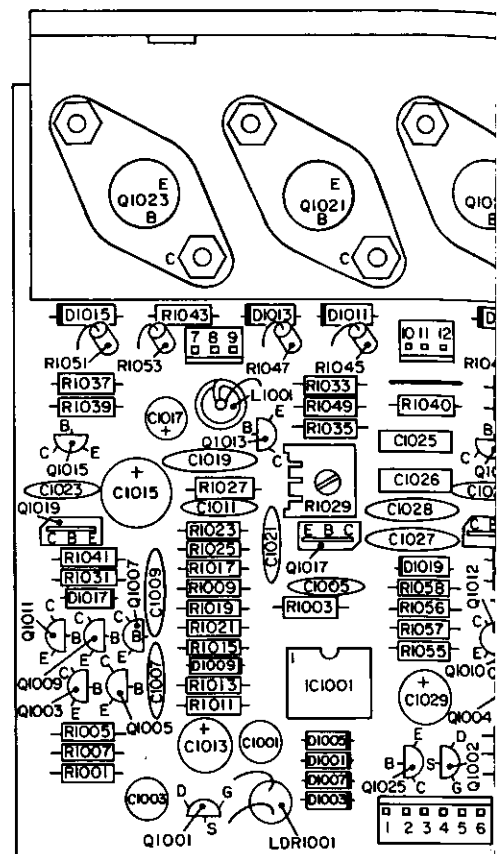
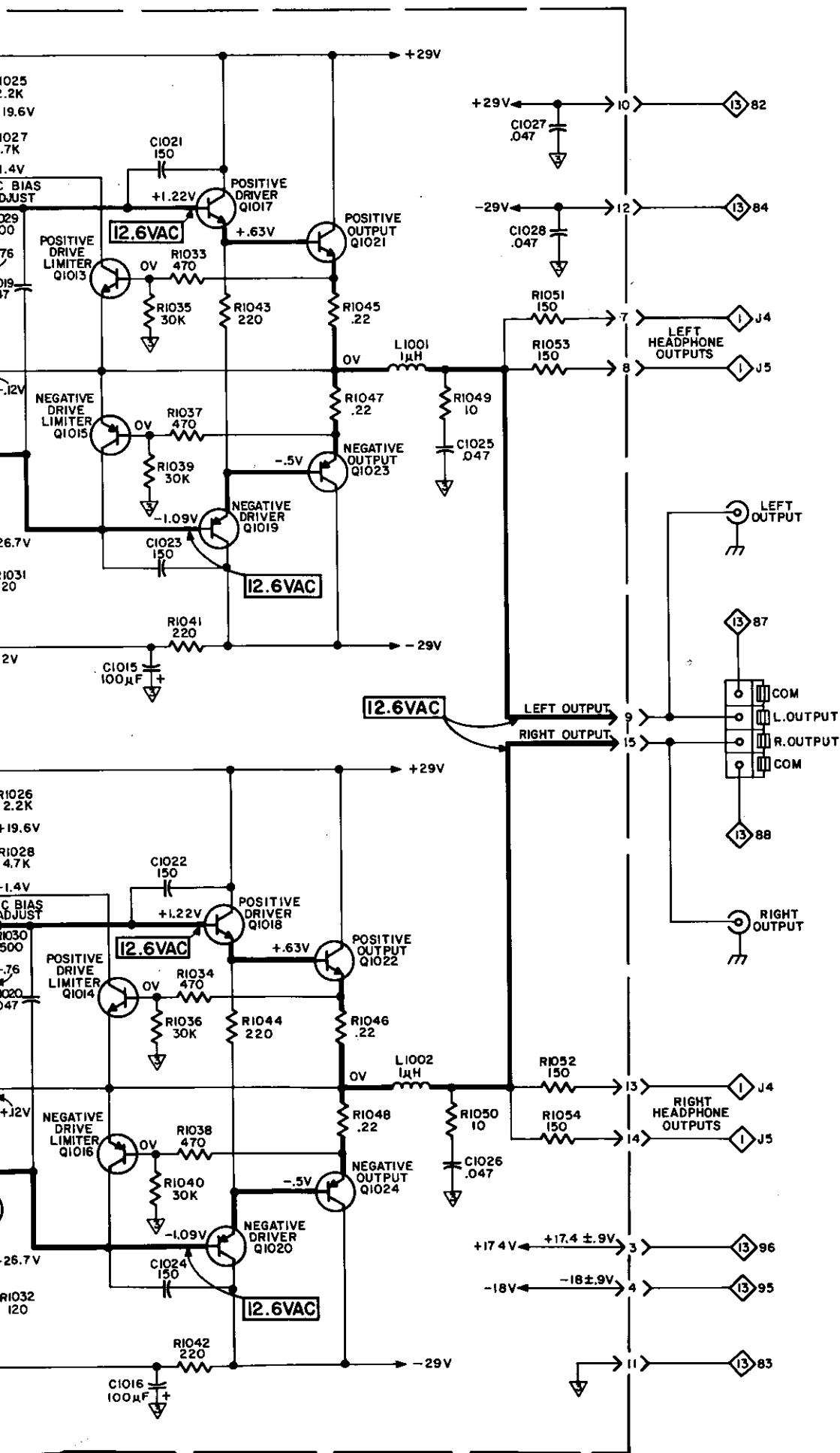
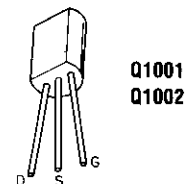
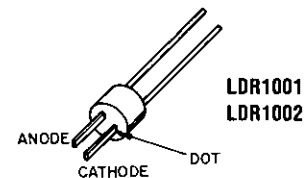
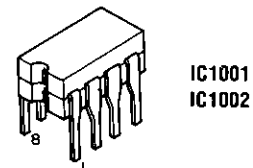
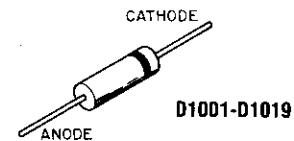
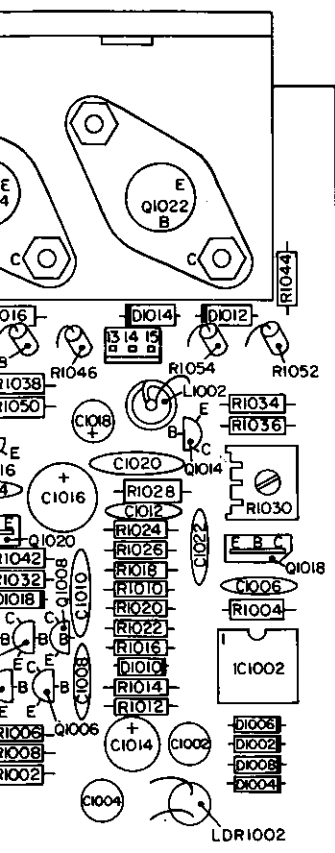


Fig. 10-1. PARTS LOCATION - PC board 04581

NOTES

- 10-1. BIAS ADJUSTMENT (Left Channel) - With monitor amplifier, measure between R104 and ground, then adjust R1029 for 0.0V BIAS ADJUSTMENT (Right Channel) - With monitor amplifier, measure between R104 and ground, then adjust R1030 for 0.0V





PARTS LIST

Symbol Part
No. No. Description

CAPACITORS (CD = Ceramic Disc, ELECT = Electrolytic, MPE = Metalized Polyester)

*C1001	066316	ELECT, 10 μ F, 25V, NP
*C1002	066316	ELECT, 10 μ F, 25V, NP
*C1003	066277	ELECT, 3.3 μ F, 20%, 50V, NP
*C1004	066277	ELECT, 3.3 μ F, 20%, 50V, NP
C1005	061004	CD, 4.7pF, 20%, 500V, NPO
C1006	061004	CD, 4.7pF, 20%, 500V, NPO
C1007	061011	CD, 15pF, 10%, 500V, NPO
C1008	061011	CD, 15pF, 10%, 500V, NPO
C1009	061016	CD, 33pF, 10%, 500V, NPO
C1010	061016	CD, 33pF, 10%, 500V, NPO
C1011	061011	CD, 15pF, 10%, 500V, NPO
C1012	061011	CD, 15pF, 10%, 500V, NPO
C1013	066215	ELECT, 47 μ F, 16V
C1014	066215	ELECT, 47 μ F, 16V
C1015	066329	ELECT, 100 μ F, 35V
C1016	066329	ELECT, 100 μ F, 35V
C1017	066214	ELECT, 22 μ F, 35V
C1018	066214	ELECT, 22 μ F, 35V
C1019	061161	CD, .047 μ F, +80 -20%, 50V
C1020	061161	CD, .047 μ F, +80 -20%, 50V
C1021	061024	CD, 150pF, 10%, 500V, Z5F
C1022	061024	CD, 150pF, 10%, 500V, Z5F
C1023	061024	CD, 150pF, 10%, 500V, Z5F
C1024	061024	CD, 150pF, 10%, 500V, Z5F
C1025	064250	MPE, .047 μ F, 10%, 63V
C1026	064250	MPE, .047 μ F, 10%, 63V
C1027	061161	CD, .047 μ F, +80 -20%, 50V
C1028	061161	CD, .047 μ F, +80 -20%, 50V
C1029	066221	ELECT, 10 μ F, 50V

DIODES (SIG = Signal, Si = Silicon, STAB = Stabistor, ZN = Zener)

*D1001	070047	Si, SIG, 75V, 10mA, IN4148
*D1002	070047	Si, SIG, 75V, 10mA, IN4148
*D1003	070047	Si, SIG, 75V, 10mA, IN4148
*D1004	070047	Si, SIG, 75V, 10mA, IN4148
*D1005	070047	Si, SIG, 75V, 10mA, IN4148
*D1006	070047	Si, SIG, 75V, 10mA, IN4148
*D1007	070047	Si, SIG, 75V, 10mA, IN4148
*D1008	070047	Si, SIG, 75V, 10mA, IN4148
*D1009	070114	Si, ZN, 16V, 5%, 500mW
*D1010	070114	Si, ZN, 16V, 5%, 500mW
*D1011	070047	Si, SIG, 75V, 10mA, IN4148
*D1012	070047	Si, SIG, 75V, 10mA, IN4148
*D1013	070047	Si, SIG, 75V, 10mA, IN4148
*D1014	070047	Si, SIG, 75V, 10mA, IN4148
*D1015	070046	Si, STAB, 1.3V, 2%, 10mA, Selected MZ2361
*D1016	070046	Si, STAB, 1.3V, 2%, 10mA, Selected MZ2361
*D1017	070047	Si, SIG, 75V, 10mA, IN4148
*D1018	070047	Si, SIG, 75V, 10mA, IN4148
*D1019	070047	Si, SIG, 75V, 10mA, IN4148

INTEGRATED CIRCUITS (AN = Analog, BP = Bipolar)

*IC1001 133068 AN, BP, Operation Amp, LM201A

*IC1002 133068 AN, BP, Operation Amp, LM201A

COILS/INDUCTORS

*L1001	122203	Choke, 1.2mH
*L1002	122203	Choke, 1.2mH

LIGHT DEPENDENT RESISTORS

*LDR1001	144070	LDR, CLM6000
*LDR1002	144070	LDR, CLM6000

TRANSISTORS (J-FET = Junction FET, Si = Silicon, P = P Channel)

*Q1001	132170	Si, P, J-FET, MPF-970
*Q1002	132170	Si, P, J-FET, MPF-970
*Q1003	132056	Si, PNP, 2N5087
*Q1004	132056	Si, PNP, 2N5087
*Q1005	132056	Si, PNP, 2N5087
*Q1006	132056	Si, PNP, 2N5087
*Q1007	132195	Si, NPN, 40V, Low Noise
*Q1008	132195	Si, NPN, 40V, Low Noise
*Q1009	132195	Si, NPN, 40V, Low Noise

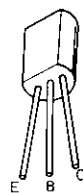
*Q1012	132185	Si, NPN, 2N6429A
*Q1013	132143	Si, NPN, MPS-D05
*Q1014	132143	Si, NPN, MPS-D05
*Q1015	132172	Si, PNP, MPS-A55
*Q1016	132172	Si, PNP, MPS-A55
*Q1017	132214	Si, NPN
*Q1018	132214	Si, NPN
*Q1019	132194	Si, PNP
*Q1020	132194	Si, PNP
*Q1021	132197	Si, NPN, Selected MJ3247
*Q1022	132197	Si, NPN, Selected MJ3247
*Q1023	132198	Si, PNP, MJ3237
*Q1024	132198	Si, PNP, MJ3237
*Q1025	132056	Si, PNP, 2N5087

RESISTORS (CF = Carbon Film, MF = Metal Film, POT = Potentiometer, WW = Wirewound, FP = Flameproof)

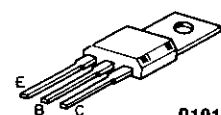
R1001	141064	CF, 4.7k Ω , 5%, 1/4W
R1002	141064	CF, 4.7k Ω , 5%, 1/4W
R1003	141124	CF, 2.2M Ω , 5%, 1/4W
R1004	141124	CF, 2.2M Ω , 5%, 1/4W
R1005	141064	CF, 4.7k Ω , 5%, 1/4W
R1006	141064	CF, 4.7k Ω , 5%, 1/4W
R1007	141090	CF, 56k Ω , 5%, 1/4W
R1008	141090	CF, 56k Ω , 5%, 1/4W
R1009	141082	CF, 27k Ω , 5%, 1/4W
R1010	141082	CF, 27k Ω , 5%, 1/4W
R1011	141118	CF, 820k Ω , 5%, 1/4W
R1012	141118	CF, 820k Ω , 5%, 1/4W
R1013	141072	CF, 10k Ω , 5%, 1/4W
R1014	141072	CF, 10k Ω , 5%, 1/4W
R1015	141082	CF, 27k Ω , 5%, 1/4W
R1016	141082	CF, 27k Ω , 5%, 1/4W
R1017	141064	CF, 4.7k Ω , 5%, 1/4W
R1018	141064	CF, 4.7k Ω , 5%, 1/4W
R1019	141064	CF, 4.7k Ω , 5%, 1/4W
R1020	141064	CF, 4.7k Ω , 5%, 1/4W
*R1021	144121	MF, 2.67k Ω , 1%, 1/4W
*R1022	144121	MF, 2.67k Ω , 1%, 1/4W
*R1023	144080	MF, 47k Ω , 2%, 1/4W
*R1024	144080	MF, 47k Ω , 2%, 1/4W
R1025	141057	CF, 2.2k Ω , 5%, 1/4W
R1026	141057	CF, 2.2k Ω , 5%, 1/4W
R1027	141064	CF, 4.7k Ω , 5%, 1/4W
R1028	141064	CF, 4.7k Ω , 5%, 1/4W
*R1029	134396	POT, 500 Ω , 20%, Linear
*R1030	134396	POT, 500 Ω , 20%, Linear
R1031	141027	CF, 120 Ω , 5%, 1/4W
R1032	141027	CF, 120 Ω , 5%, 1/4W
R1033	141041	CF, 470 Ω , 5%, 1/4W
R1034	141041	CF, 470 Ω , 5%, 1/4W
R1035	141083	CF, 30k Ω , 5%, 1/4W
R1036	141083	CF, 30k Ω , 5%, 1/4W
R1037	141041	CF, 470 Ω , 5%, 1/4W
R1038	141041	CF, 470 Ω , 5%, 1/4W
R1039	141083	CF, 30k Ω , 5%, 1/4W
R1040	141083	CF, 30k Ω , 5%, 1/4W
R1041	141033	CF, 220 Ω , 5%, 1/4W
R1042	141033	CF, 220 Ω , 5%, 1/4W
R1043	141033	CF, 220 Ω , 5%, 1/4W
R1044	141033	CF, 220 Ω , 5%, 1/4W
*R1045	139159	WW, 22 Ω , FP, 5%, 1W
*R1046	139159	WW, 22 Ω , FP, 5%, 1W
*R1047	139159	WW, 22 Ω , FP, 5%, 1W
*R1048	139159	WW, 22 Ω , FP, 5%, 1W
R1049	141136	CF, 10 Ω , 5%, 1/4W
R1050	141136	CF, 10 Ω , 5%, 1/4W
*R1051	139160	WW, 150 Ω , 5%, 1W
*R1052	139160	WW, 150 Ω , 5%, 1W
*R1053	139160	WW, 150 Ω , 5%, 1W
*R1054	139160	WW, 150 Ω , 5%, 1W
R1055	141120	CF, 1M Ω , 5%, 1/4W
R1056	141092	CF, 68k Ω , 5%, 1/4W
R1057	141124	CF, 2.2M Ω , 5%, 1/4W
R1058	141096	CF, 100k Ω , 5%, 1/4W

no signal through the
5 and R1047 from the
5 volts.

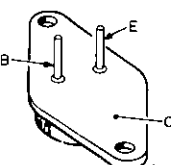
h no signal through
1046 and R1048 from
r .005 volts.



Q1003-Q1016
Q1025



Q1017-Q1020

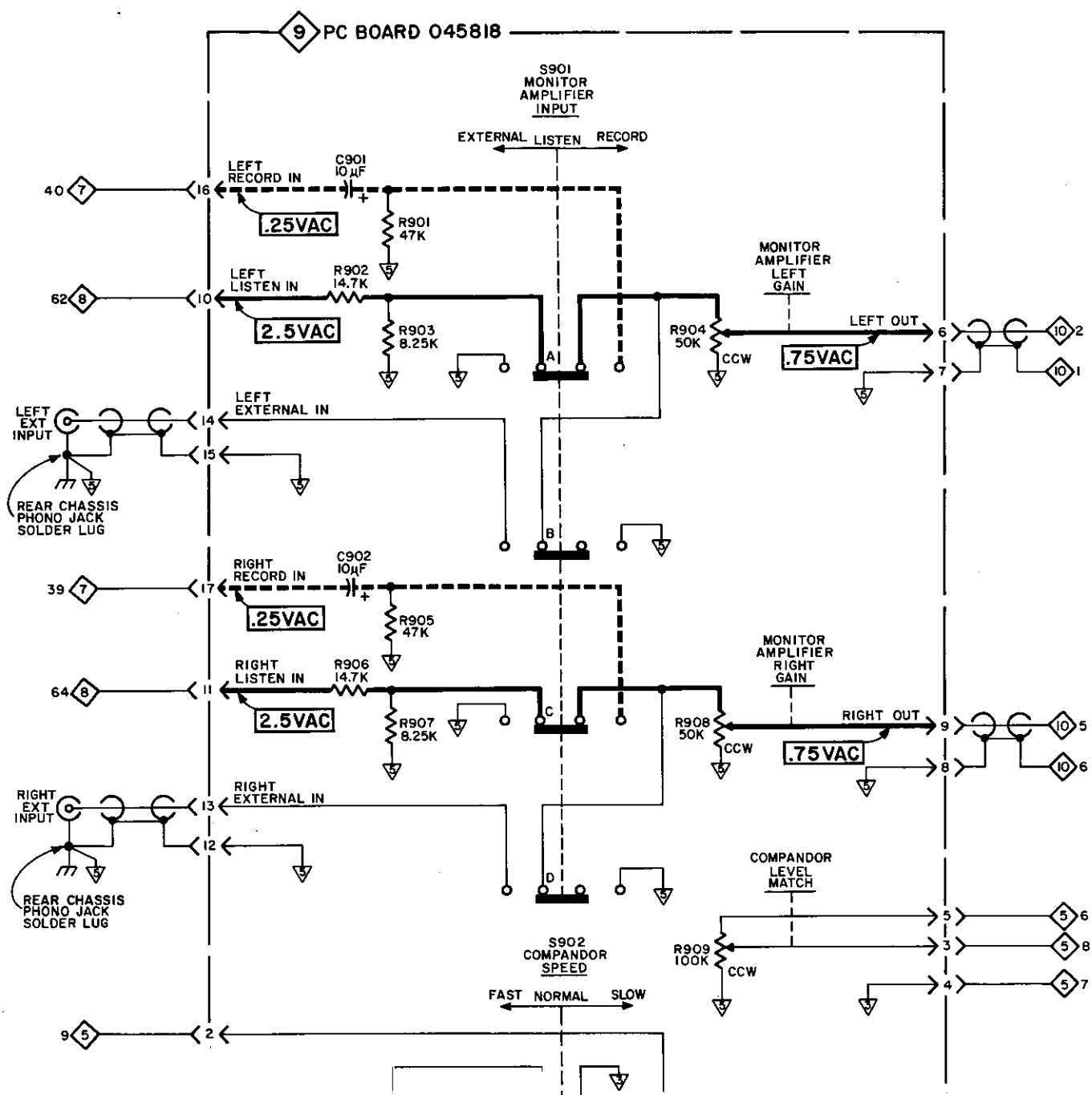


Q1021-Q1024

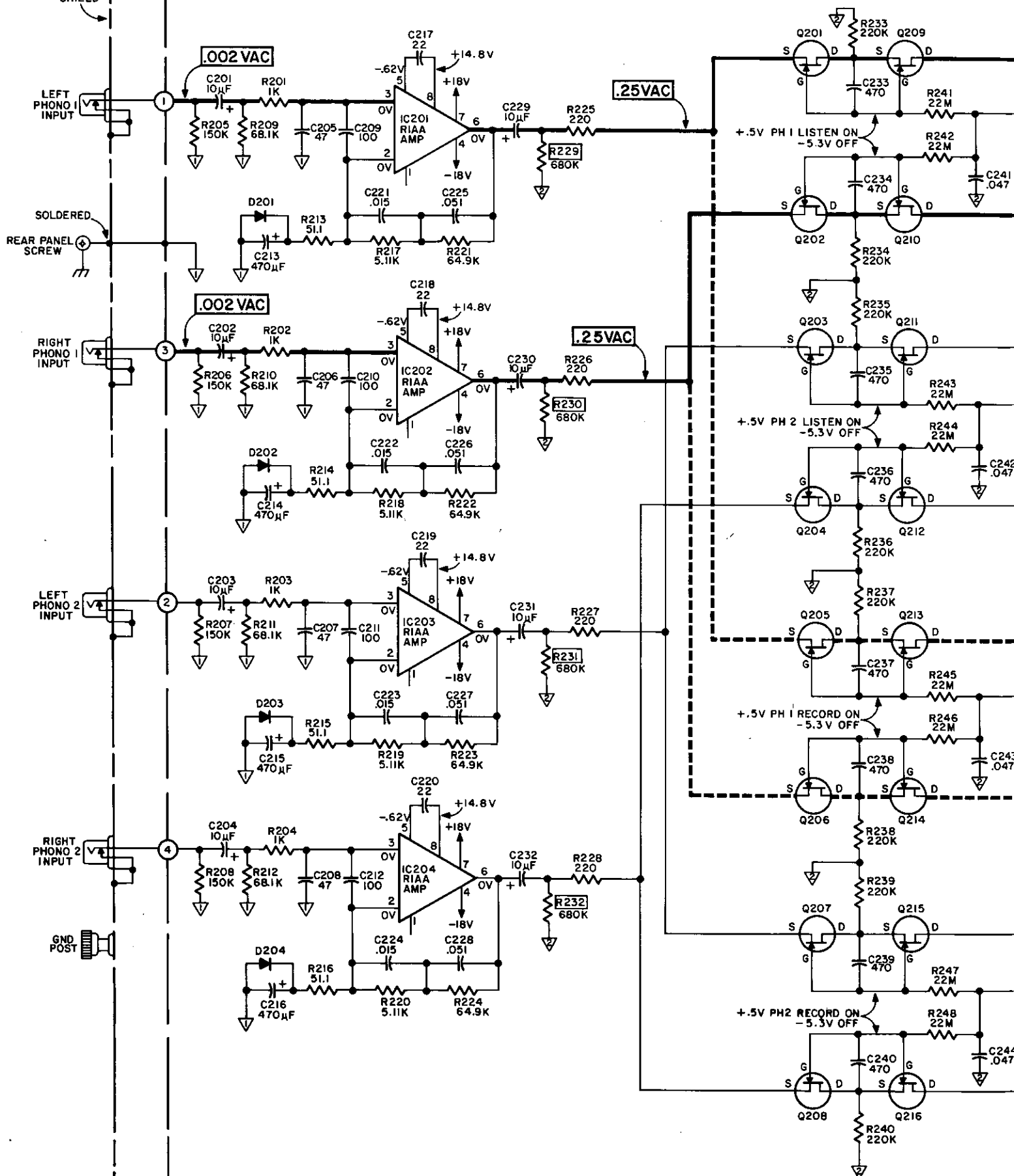
SECTION

9

TOP COVER CONTROLS



2 ASSEMBLY 045823
PC BOARD 045811



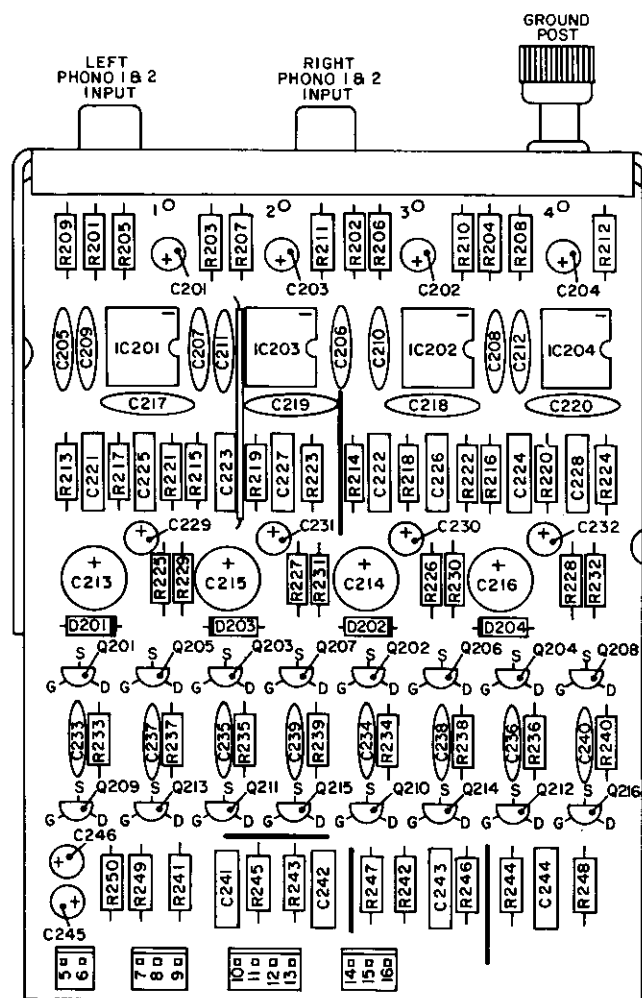
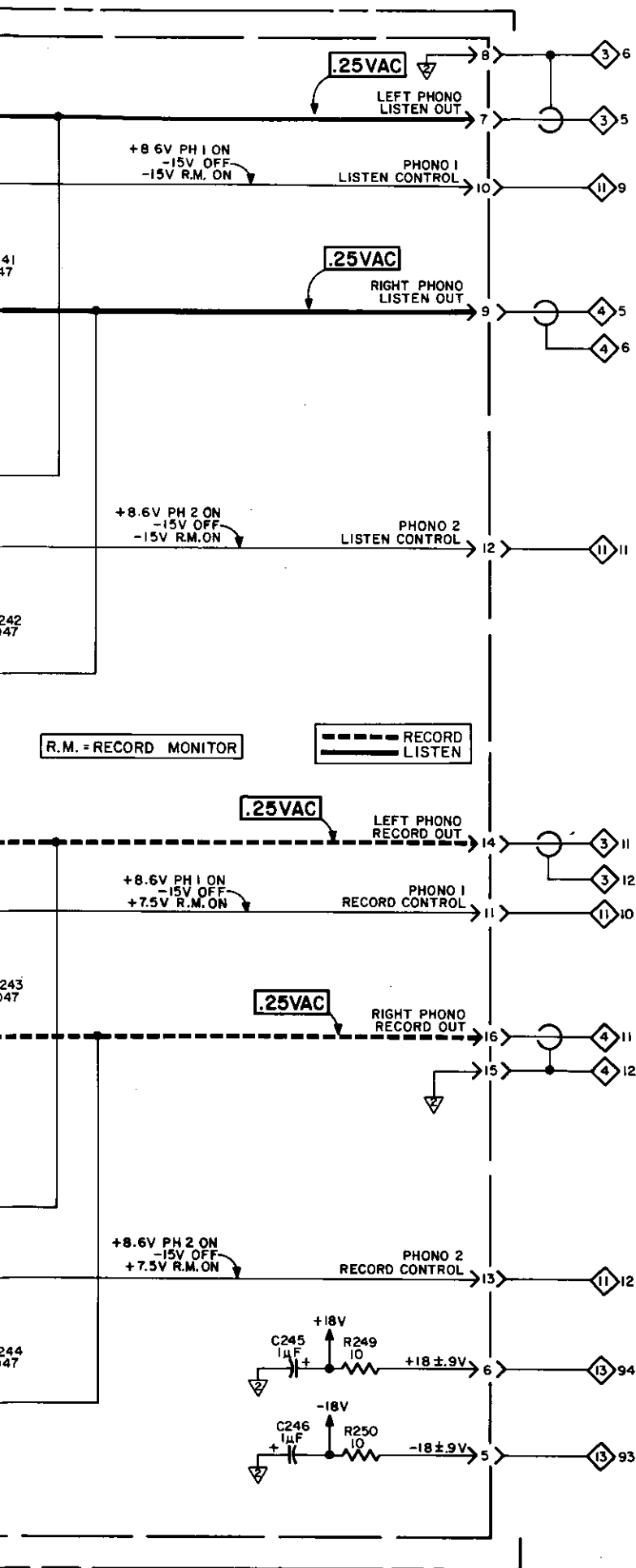


Fig. 2-1. PARTS LOCATION - Assembly 045823
(PC board 045811).

PARTS LIST

Symbol No.	Part No.	Description
CAPACITORS (CD = Ceramic Disc, ELECT = Electrolytic, MPE = Metalized Polyester)		
C201	066211	ELECT, 10μF, 16V
C202	066211	ELECT, 10μF, 16V
C203	066211	ELECT, 10μF, 16V
C204	066211	ELECT, 10μF, 16V
C205	061055	CD, 47pF, 10%, 500V, N470
C206	061055	CD, 47pF, 10%, 500V, N470
C207	061055	CD, 47pF, 10%, 500V, N470
C208	061055	CD, 47pF, 10%, 500V, N470
C209	061023	CD, 100pF, 10%, 500V, N1500
C210	061023	CD, 100pF, 10%, 500V, N1500
C211	061023	CD, 100pF, 10%, 500V, N1500
C212	061023	CD, 100pF, 10%, 500V, N1500
C213	066327	ELECT, 470μF, 10V
C214	066327	ELECT, 470μF, 10V
C215	066327	ELECT, 470μF, 10V
C216	066327	ELECT, 470μF, 10V
C217	061014	CD, 22pF, 10%, 500V, NPO
C218	061014	CD, 22pF, 10%, 500V, NPO

SECTION

10

MONITOR AMPLIFIER

2

PHONO PREAMP and SWITCHING ASSEMBLY

SECTION

219	061014	CD, 22pF, 10%, 500V, NPO
220	061014	CD, 22pF, 10%, 500V, NPO
221	064176	MPE, .015μF, 5%, 63V
222	064176	MPE, .015μF, 5%, 63V
223	064176	MPE, .015μF, 5%, 63V
224	064176	MPE, .015μF, 5%, 63V
225	064273	MPE, .051μF, 5%, 250V
226	064273	MPE, .051μF, 5%, 250V
227	064273	MPE, .051μF, 5%, 250V
228	064273	MPE, .051μF, 5%, 250V
229	066211	ELECT, 10μF, 16V
230	066211	ELECT, 10μF, 16V
231	066211	ELECT, 10μF, 16V
232	066211	ELECT, 10μF, 16V
233	061128	CD, 470pF, 10%, 500V, Z5F
234	061128	CD, 470pF, 10%, 500V, Z5F
235	061128	CD, 470pF, 10%, 500V, Z5F
236	061128	CD, 470pF, 10%, 500V, Z5F
237	061128	CD, 470pF, 10%, 500V, Z5F
238	061128	CD, 470pF, 10%, 500V, Z5F
239	061128	CD, 470pF, 10%, 500V, Z5F
240	061128	CD, 470pF, 10%, 500V, Z5F
241	064250	MPE, .047μF, 10%, 63V
242	064250	MPE, .047μF, 10%, 63V
243	064250	MPE, .047μF, 10%, 63V
244	064250	MPE, .047μF, 10%, 63V
245	066242	ELECT, 1μF, 50V
246	066242	ELECT, 1μF, 50V

(SIG = Signal, Si = Silicon)

201	070047	Si, SIG, 75V, 10mA, IN4148
202	070047	Si, SIG, 75V, 10mA, IN4148
203	070047	Si, SIG, 75V, 10mA, IN4148
204	070047	Si, SIG, 75V, 10mA, IN4148

ATED CIRCUITS (AN = Analog, BP = Bipolar)

201	133067	AN, BP, Operation Amp Low Noise & THD, NE-5534A
202	133067	AN, BP, Operation Amp Low Noise & THD, NE-5534A
203	133067	AN, BP, Operation Amp Low Noise & THD, NE-5534A
204	133067	AN, BP, Operation Amp Low Noise & THD, NE-5534A

STORS (J-FET = Junction FET, N = N Channel, Si = Silicon)

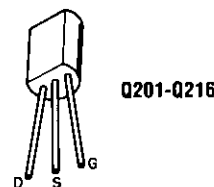
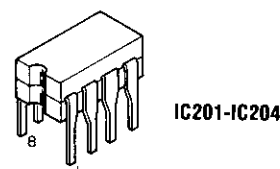
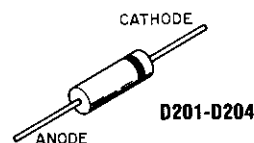
201	132193	Si, N, J-FET, 2N4392
202	132193	Si, N, J-FET, 2N4392
203	132193	Si, N, J-FET, 2N4392
204	132193	Si, N, J-FET, 2N4392
205	132193	Si, N, J-FET, 2N4392
206	132193	Si, N, J-FET, 2N4392
207	132193	Si, N, J-FET, 2N4392
208	132193	Si, N, J-FET, 2N4392
209	132193	Si, N, J-FET, 2N4392
210	132193	Si, N, J-FET, 2N4392
211	132193	Si, N, J-FET, 2N4392
212	132193	Si, N, J-FET, 2N4392
213	132193	Si, N, J-FET, 2N4392
214	132193	Si, N, J-FET, 2N4392
215	132193	Si, N, J-FET, 2N4392
216	132193	Si, N, J-FET, 2N4392

PRS (CF = Carbon Film, MF = Metal Film, CC = Carbon Composition)

201	141049	CF, 1kΩ, 5%, 1/4W
202	141049	CF, 1kΩ, 5%, 1/4W
203	141049	CF, 1kΩ, 5%, 1/4W

R204	141049	CF, 1kΩ, 5%, 1/4W
R205	141100	CF, 150kΩ, 5%, 1/4W
R206	141100	CF, 150kΩ, 5%, 1/4W
R207	141100	CF, 150kΩ, 5%, 1/4W
R208	141100	CF, 150kΩ, 5%, 1/4W
*R209	144081	MF, 68.1kΩ, 1%, 1/4W
*R210	144081	MF, 68.1kΩ, 1%, 1/4W
*R211	144081	MF, 68.1kΩ, 1%, 1/4W
*R212	144081	MF, 68.1kΩ, 1%, 1/4W
*R213	144134	MF, 51.1Ω, 2%, 1/4W
*R214	144134	MF, 51.1Ω, 2%, 1/4W
*R215	144134	MF, 51.1Ω, 2%, 1/4W
*R216	144134	MF, 51.1Ω, 2%, 1/4W
*R217	144083	MF, 5.11kΩ, 2%, 1/4W
*R218	144083	MF, 5.11kΩ, 2%, 1/4W
*R219	144083	MF, 5.11kΩ, 2%, 1/4W
*R220	144083	MF, 5.11kΩ, 2%, 1/4W
*R221	144138	MF, 64.9kΩ, 2%, 1/4W
*R222	144138	MF, 64.9kΩ, 2%, 1/4W
*R223	144138	MF, 64.9kΩ, 2%, 1/4W
*R224	144138	MF, 64.9kΩ, 2%, 1/4W
R225	141033	CF, 220Ω, 5%, 1/4W
R226	141033	CF, 220Ω, 5%, 1/4W
R227	141033	CF, 220Ω, 5%, 1/4W
R228	141033	CF, 220Ω, 5%, 1/4W
R229	141080	S/N CX1001 to CX1700: CF, 22kΩ, 5%, 1/4W
	141116	S/N CX1701 and above: CF, 680kΩ, 5%, 1/4W....(7436)
R230	141080	S/N CX1001 to CX1700: CF, 22kΩ, 5%, 1/4W
	141116	S/N CX1701 and above: CF, 680kΩ, 5%, 1/4W....(7436)
R231	141080	S/N CX1001 to CX1700: CF, 22kΩ, 5%, 1/4W
	141116	S/N CX1701 and above: CF, 680kΩ, 5%, 1/4W....(7436)
R232	141080	S/N CX1001 to CX1700: CF, 22kΩ, 5%, 1/4W
	141116	S/N CX1701 and above: CF, 680kΩ, 5%, 1/4W....(7436)
R233	141104	CF, 220kΩ, 5%, 1/4W
R234	141104	CF, 220kΩ, 5%, 1/4W
R235	141104	CF, 220kΩ, 5%, 1/4W
R236	141104	CF, 220kΩ, 5%, 1/4W
R237	141104	CF, 220kΩ, 5%, 1/4W
R238	141104	CF, 220kΩ, 5%, 1/4W
R239	141104	CF, 220kΩ, 5%, 1/4W
R240	141104	CF, 220kΩ, 5%, 1/4W
R241	136477	CC, 22MΩ, 10%, 1/4W
R242	136477	CC, 22MΩ, 10%, 1/4W
R243	136477	CC, 22MΩ, 10%, 1/4W
R244	136477	CC, 22MΩ, 10%, 1/4W
R245	136477	CC, 22MΩ, 10%, 1/4W
R246	136477	CC, 22MΩ, 10%, 1/4W
R247	136477	CC, 22MΩ, 10%, 1/4W
R248	136477	CC, 22MΩ, 10%, 1/4W
R249	141136	CF, 10Ω, 5%, 1/4W
R250	141136	CF, 10Ω, 5%, 1/4W

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.



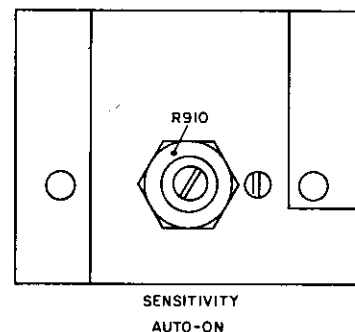
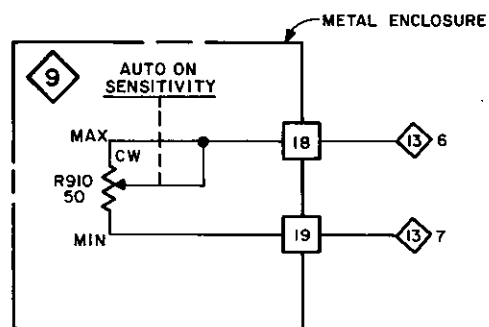
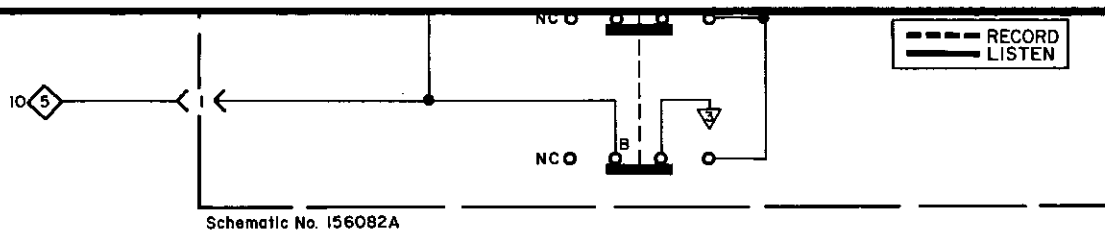


Fig. 9-1. PARTS LOCATION - R910 mounted on metal bracket next to PC board 045818.

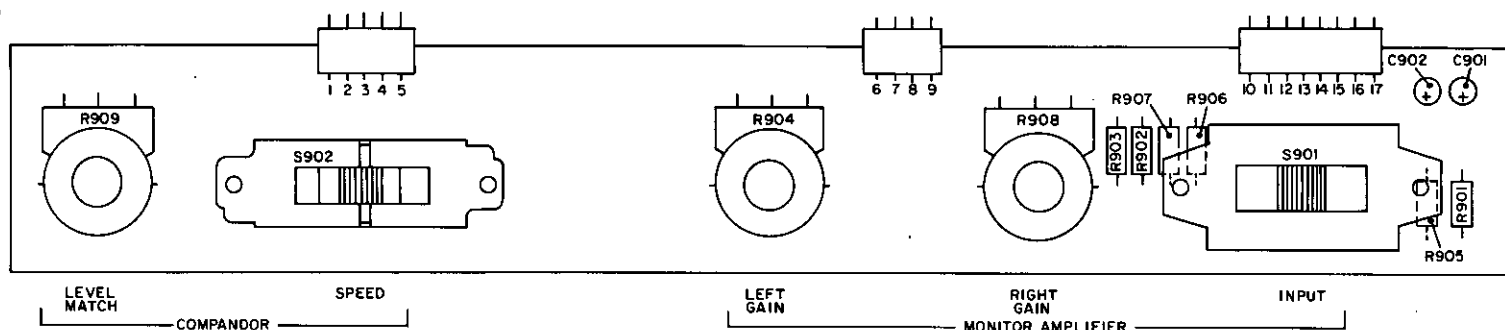


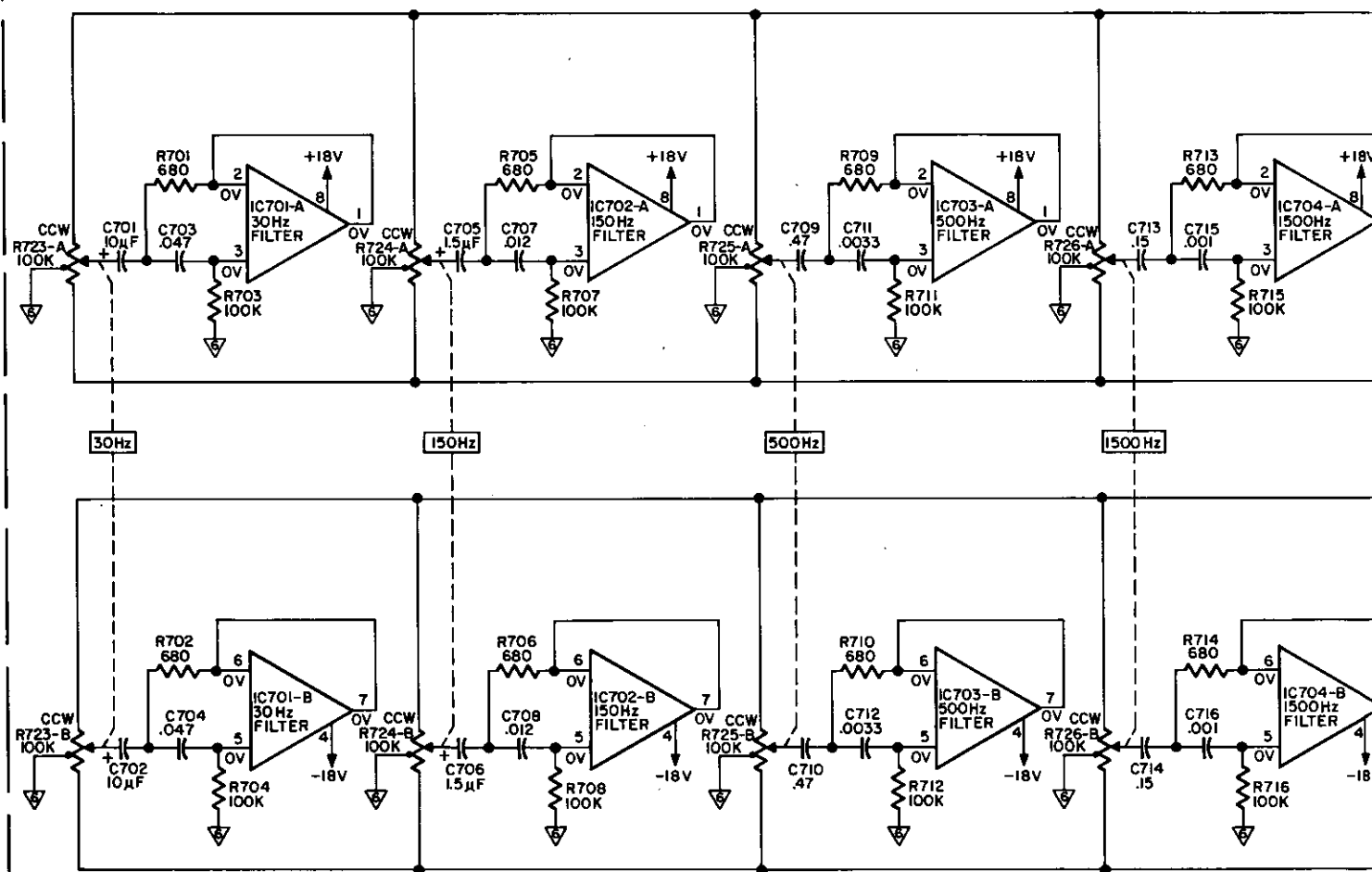
Fig. 9-2. PARTS LOCATION - PC board 045818.

PARTS LIST

Symbol No.	Part No.	Description
CAPACITORS (ELECT = Electrolytic)		
C901	066211	ELECT, 10 μ F, 16V
C902	066211	ELECT, 10 μ F, 16V
RESISTORS (CF = Carbon Film, MF = Metal Film, POT = Potentiometer)		
R901	141088	CF, 47k Ω , 5%, 1/4W
*R902	144149	MF, 14.7k Ω , 1%, 1/4W
*R903	144153	MF, 8.25k Ω , 1%, 1/4W
*R904	134399	POT, 50k Ω
R905	141088	CF, 47k Ω , 5%, 1/4W
*R906	144149	MF, 14.7k Ω , 1%, 1/4W
*R907	144153	MF, 8.25k Ω , 1%, 1/4W
*R908	134399	POT, 50k Ω
*R909	134306	POT, 100k Ω , Linear
*R910	134400	POT, Sensitivity Adjust.
SWITCHES		
*S901	148056	Input Switch
*S902	148057	Speed Switch

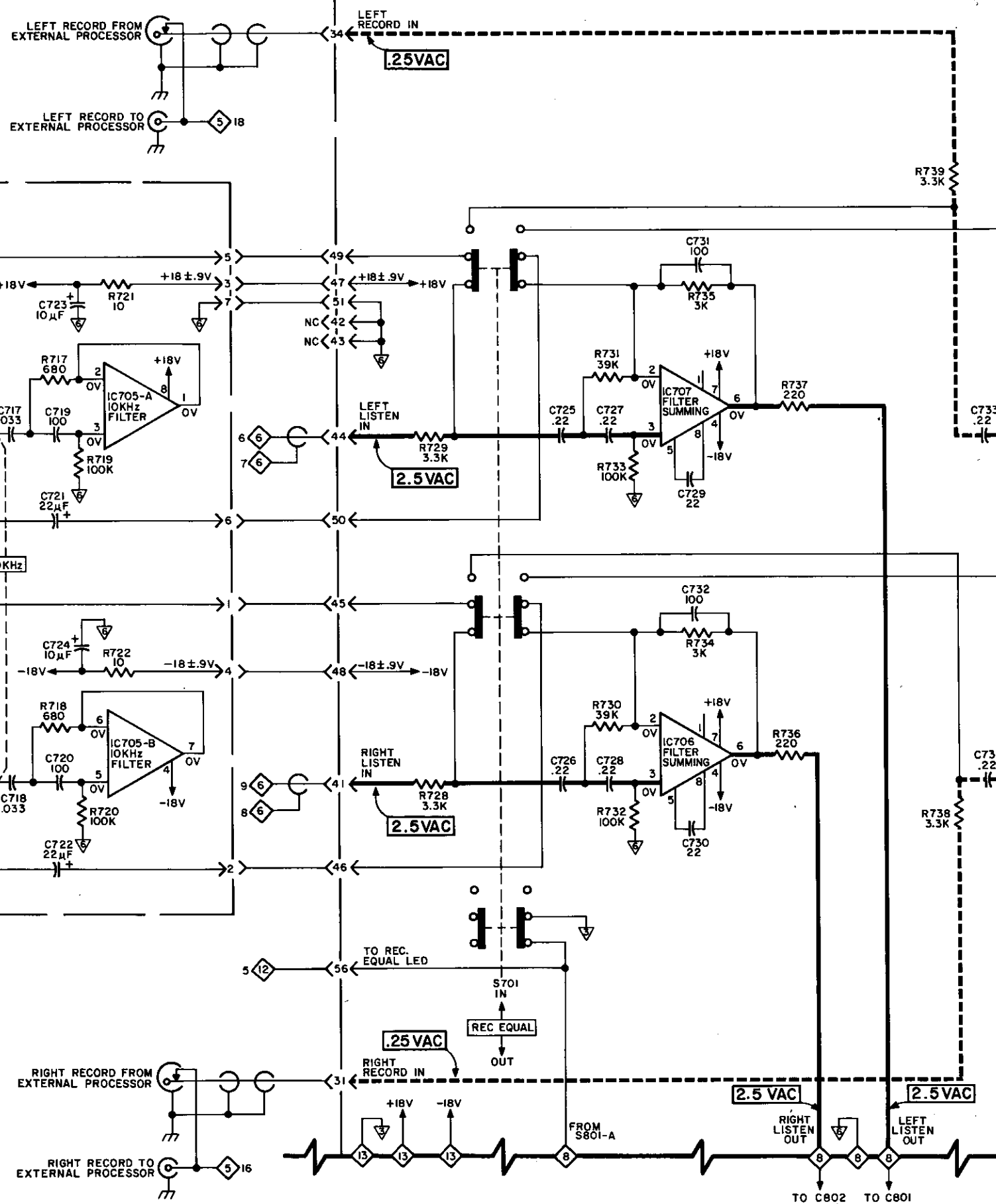
* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.

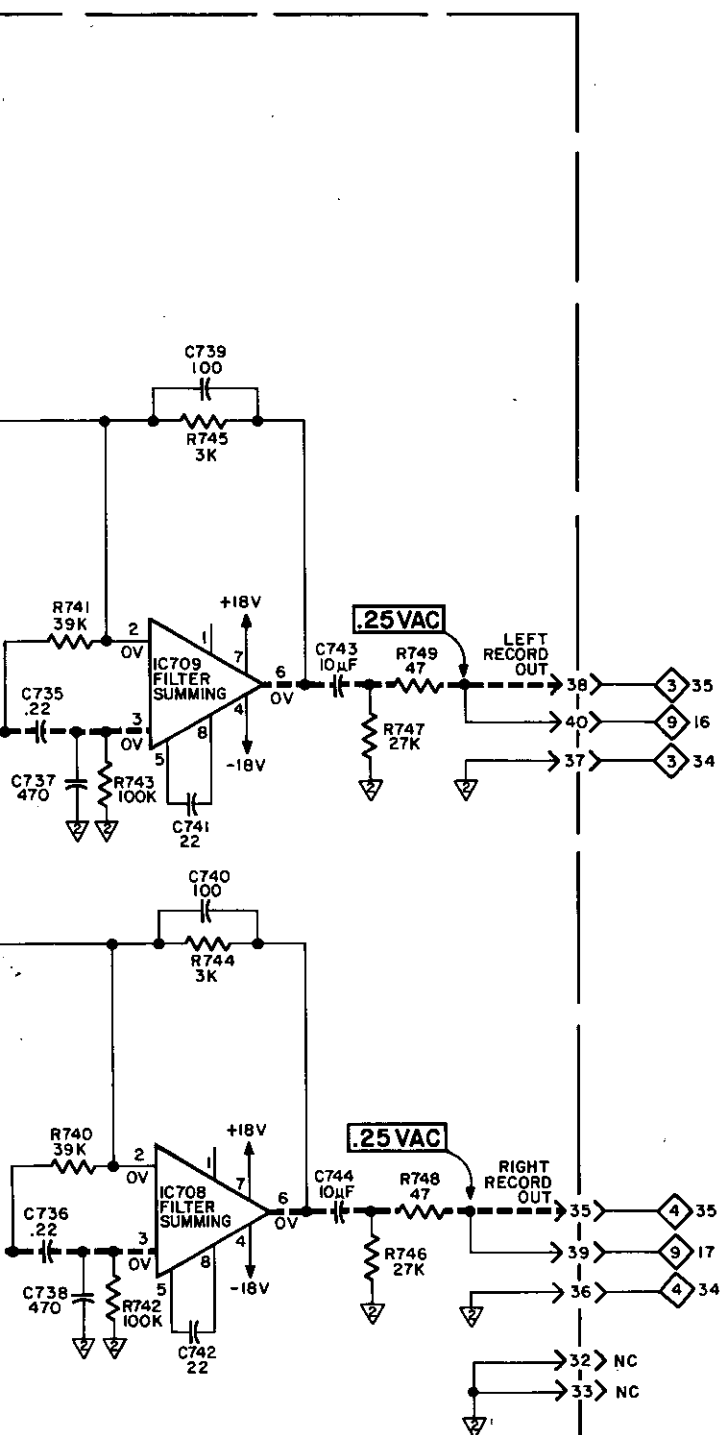
7 PC BOARD 045819



Schematic No 156080A

7 PC BOARDS 045817 and 045959





SECTIONS 5 8 11 13
ARE ALSO
PART OF THIS PCB 045959

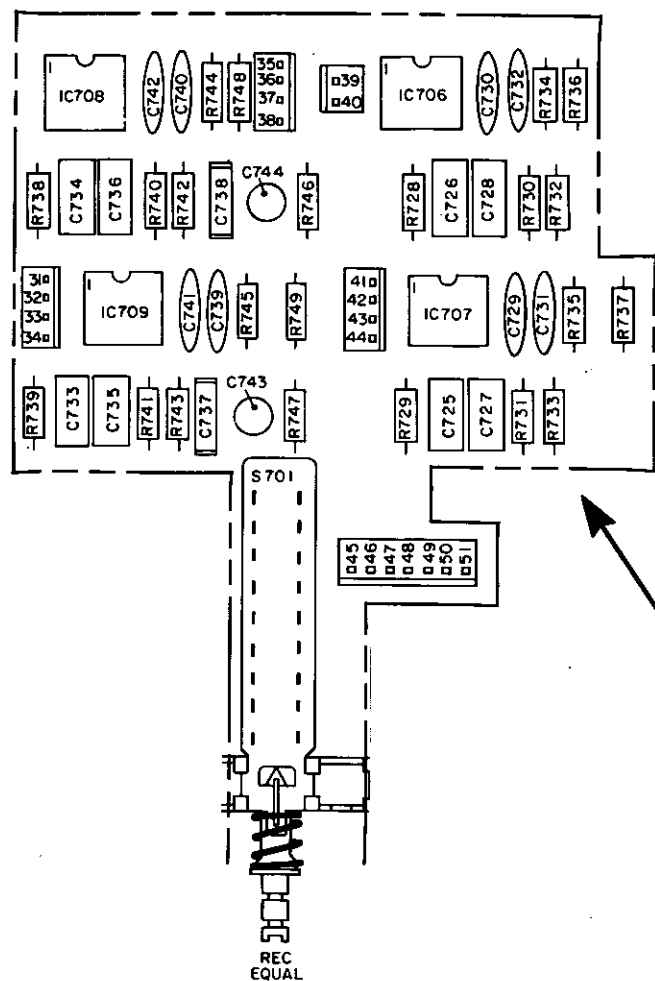
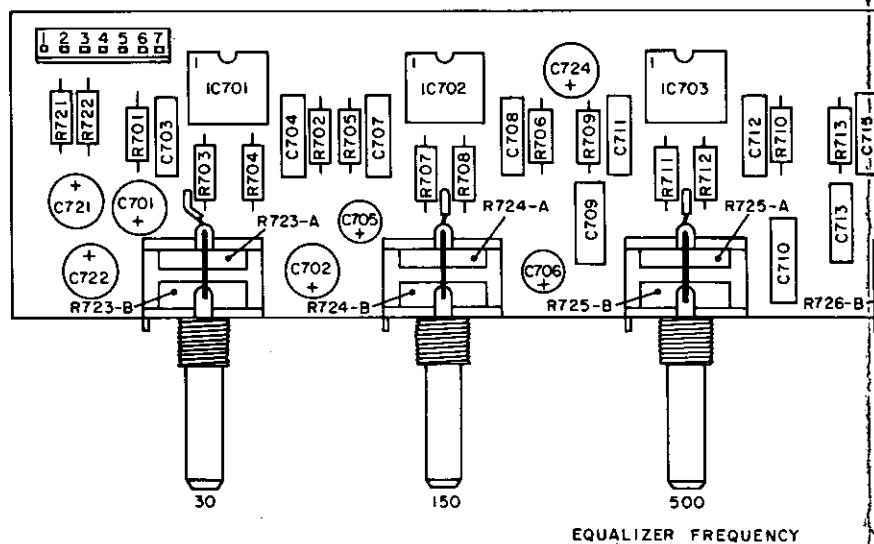


Fig. 7-1.

Fig. 7-2. PARTS LOCATION - PC board 045819.



PARTS LIST

Symbol Part
No. No. Description

CAPACITORS (CD = Ceramic Disc, ELECT = Electrolytic, MPE = Metalized Polyester, PF = Polyester Film)

C701	066239	ELECT, 10 μ F, 35V
C702	066239	ELECT, 10 μ F, 35V
C703	064182	MPE, .047 μ F, 5%, 63V
C704	064182	MPE, .047 μ F, 5%, 63V
*C705	066271	ELECT, 1.5 μ F, 50V, Low Leakage
*C706	066271	ELECT, 1.5 μ F, 50V, Low Leakage
C707	064175	MPE, .012 μ F, 5%, 63V
C708	064175	MPE, .012 μ F, 5%, 63V
C709	064194	MPE, .47 μ F, 5%, 63V
C710	064194	MPE, .47 μ F, 5%, 63V
C711	064167	PF, .0033 μ F, 5%, 100V
C712	064167	PF, .0033 μ F, 5%, 100V
C713	064188	MPE, .15 μ F, 5%, 63V
C714	064188	MPE, .15 μ F, 5%, 63V
C715	064161	PF, .001 μ F, 5%, 100V
C716	064161	PF, .001 μ F, 5%, 100V
C717	064180	MPE, .033 μ F, 5%, 63V
C718	064180	MPE, .033 μ F, 5%, 63V
C719	061023	CD, 100pF, 10%, 500V, N1500
C720	061023	CD, 100pF, 10%, 500V, N1500
C721	066240	ELECT, 22 μ F, 25V
C722	066240	ELECT, 22 μ F, 25V
C723	066239	ELECT, 10 μ F, 35V
C724	066239	ELECT, 10 μ F, 35V
C725	064190	MPE, .22 μ F, 5%, 63V
C726	064190	MPE, .22 μ F, 5%, 63V
C727	064190	MPE, .22 μ F, 5%, 63V
C728	064190	MPE, .22 μ F, 5%, 63V
C729	061014	CD, 22pF, 10%, 500V, NPO
C730	061014	CD, 22pF, 10%, 500V, NPO
C731	061023	CD, 100pF, 10%, 500V, N1500
C732	061023	CD, 100pF, 10%, 500V, N1500
C733	064190	MPE, .22 μ F, 5%, 63V
C734	064190	MPE, .22 μ F, 5%, 63V
C735	064190	MPE, .22 μ F, 5%, 63V
C736	064190	MPE, .22 μ F, 5%, 63V
C737	064286	PF, 470pF, 5%, 160V
C738	064286	PF, 470pF, 5%, 160V
C739	061023	CD, 100pF, 10%, 500V, N1500
C740	061023	CD, 100pF, 10%, 500V, N1500
C741	061014	CD, 22pF, 10%, 500V, NPO
C742	061014	CD, 22pF, 10%, 500V, NPO
C743	066316	ELECT, 10 μ F, 25V, NP
C744	066316	ELECT, 10 μ F, 25V, NP

INTEGRATED CIRCUITS (AN = Analog, BP = Bipolar)

*IC701	133028	AN, BP, Dual Hi-speed Operation Amp., MC-4558P
*IC702	133028	AN, BP, Dual Hi-speed Operation Amp., MC-4558P
*IC703	133028	AN, BP, Dual Hi-speed Operation Amp., MC-4558P
*IC704	133028	AN, BP, Dual Hi-speed Operation Amp., MC-4558P
*IC705	133028	AN, BP, Dual Hi-speed Operation Amp., MC-4558P
*IC706	133066	AN, BP, Operation Amp., NE-5534AN
*IC707	133066	AN, BP, Operation Amp., NE-5534AN
*IC708	133066	AN, BP, Operation Amp., NE-5534AN
*IC709	133066	AN, BP, Operation Amp., NE-5534AN

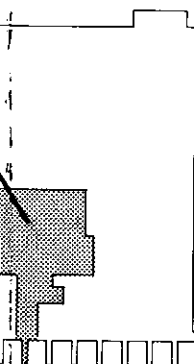
RESISTORS (CF = Carbon Film, POT = Potentiometer)

R701	141045	CF, 680 Ω , 5%, 1/4W
R702	141045	CF, 680 Ω , 5%, 1/4W
R703	141096	CF, 100k Ω , 5%, 1/4W
R704	141096	CF, 100k Ω , 5%, 1/4W
R705	141045	CF, 680 Ω , 5%, 1/4W
R706	141045	CF, 680 Ω , 5%, 1/4W
R707	141096	CF, 100k Ω , 5%, 1/4W
R708	141096	CF, 100k Ω , 5%, 1/4W
R709	141045	CF, 680 Ω , 5%, 1/4W
R710	141045	CF, 680 Ω , 5%, 1/4W
R711	141096	CF, 100k Ω , 5%, 1/4W
R712	141096	CF, 100k Ω , 5%, 1/4W
R713	141045	CF, 680 Ω , 5%, 1/4W
R714	141045	CF, 680 Ω , 5%, 1/4W
R715	141096	CF, 100k Ω , 5%, 1/4W
R716	141096	CF, 100k Ω , 5%, 1/4W
R717	141045	CF, 680 Ω , 5%, 1/4W
R718	141045	CF, 680 Ω , 5%, 1/4W
R719	141096	CF, 100k Ω , 5%, 1/4W
R720	141096	CF, 100k Ω , 5%, 1/4W
R721	141136	CF, 10 Ω , 5%, 1/4W
R722	141136	CF, 10 Ω , 5%, 1/4W
*R723	134316	POT, 100k Ω /100k Ω , Equalizer
*R724	134316	POT, 100k Ω /100k Ω , Equalizer
*R725	134316	POT, 100k Ω /100k Ω , Equalizer
*R726	134316	POT, 100k Ω /100k Ω , Equalizer
*R727	134316	POT, 100k Ω /100k Ω , Equalizer
R728	141060	CF, 3.3k Ω , 5%, 1/4W
R729	141060	CF, 3.3k Ω , 5%, 1/4W
R730	141086	CF, 39k Ω , 5%, 1/4W
R731	141086	CF, 39k Ω , 5%, 1/4W
R732	141096	CF, 100k Ω , 5%, 1/4W
R733	141096	CF, 100k Ω , 5%, 1/4W
R734	141160	CF, 3k Ω , 5%, 1/4W
R735	141160	CF, 3k Ω , 5%, 1/4W
R736	141033	CF, 220 Ω , 5%, 1/4W
R737	141033	CF, 220 Ω , 5%, 1/4W
R738	141060	CF, 3.3k Ω , 5%, 1/4W
R739	141060	CF, 3.3k Ω , 5%, 1/4W
R740	141086	CF, 39k Ω , 5%, 1/4W
R741	141086	CF, 39k Ω , 5%, 1/4W
R742	141096	CF, 100k Ω , 5%, 1/4W
R743	141096	CF, 100k Ω , 5%, 1/4W
R744	141160	CF, 3k Ω , 5%, 1/4W
R745	141160	CF, 3k Ω , 5%, 1/4W
R746	141082	CF, 27k Ω , 5%, 1/4W
R747	141082	CF, 27k Ω , 5%, 1/4W
R748	141152	CF, 47 Ω , 5%, 1/4W
R749	141152	CF, 47 Ω , 5%, 1/4W

SWITCHES

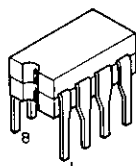
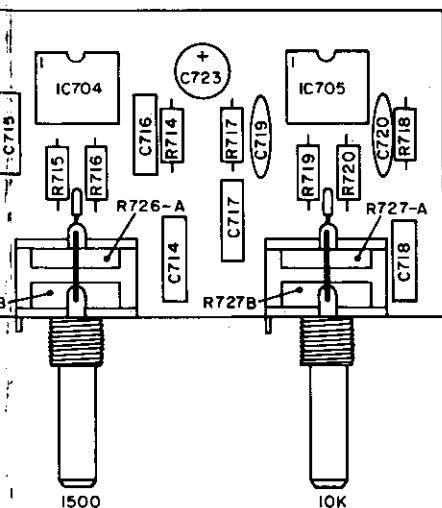
*S701	150038	Pushbutton Switch (8)
-------	--------	-----------------------

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.



PARTS LOCATION

Shaded area on main PC board 045817 or 045959.



IC701-IC709

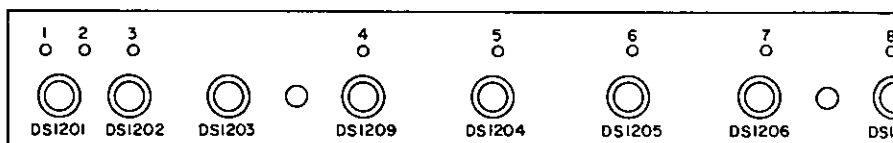
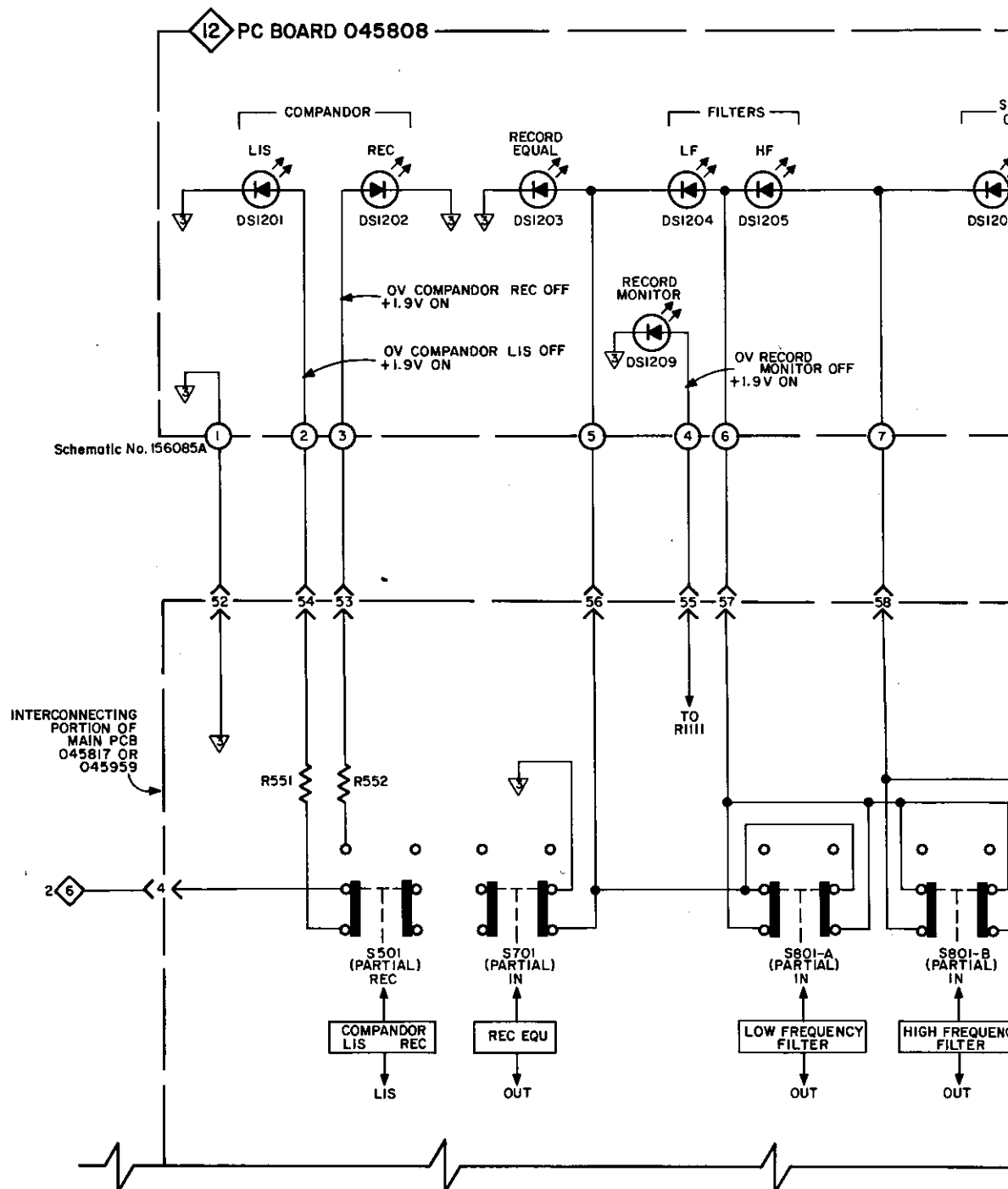
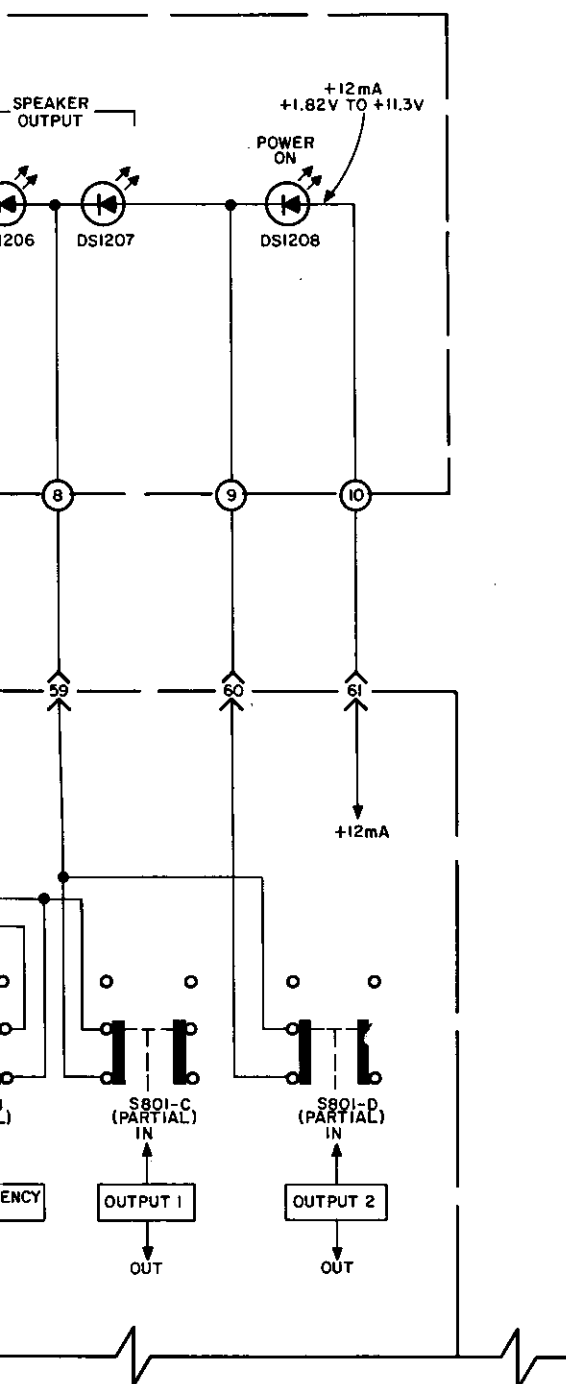
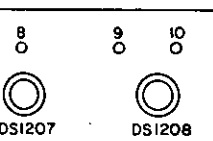


Fig. 12-1. PARTS LOCATION - PC board 045808.



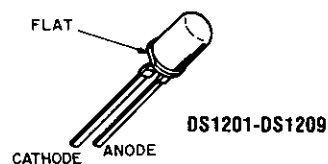
12 PUSHBUTTON INDICATORS



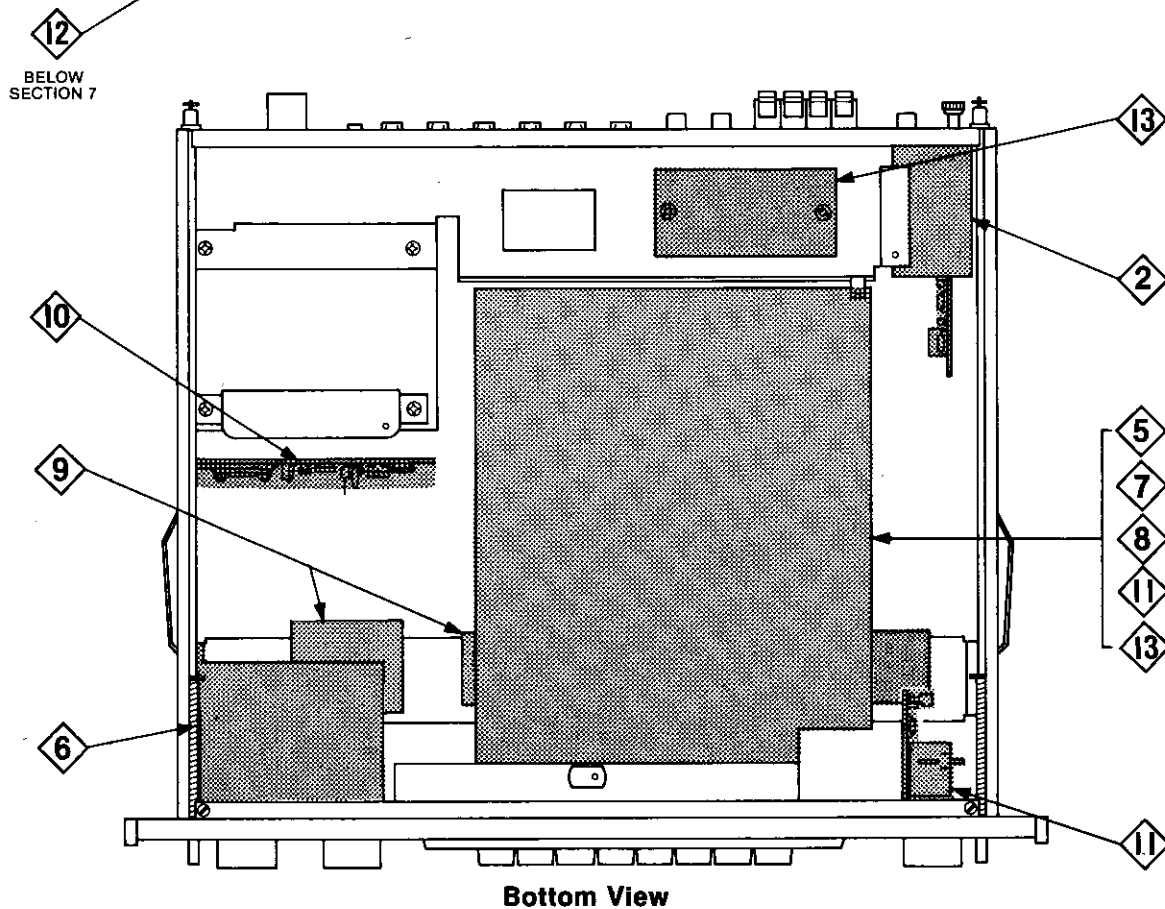
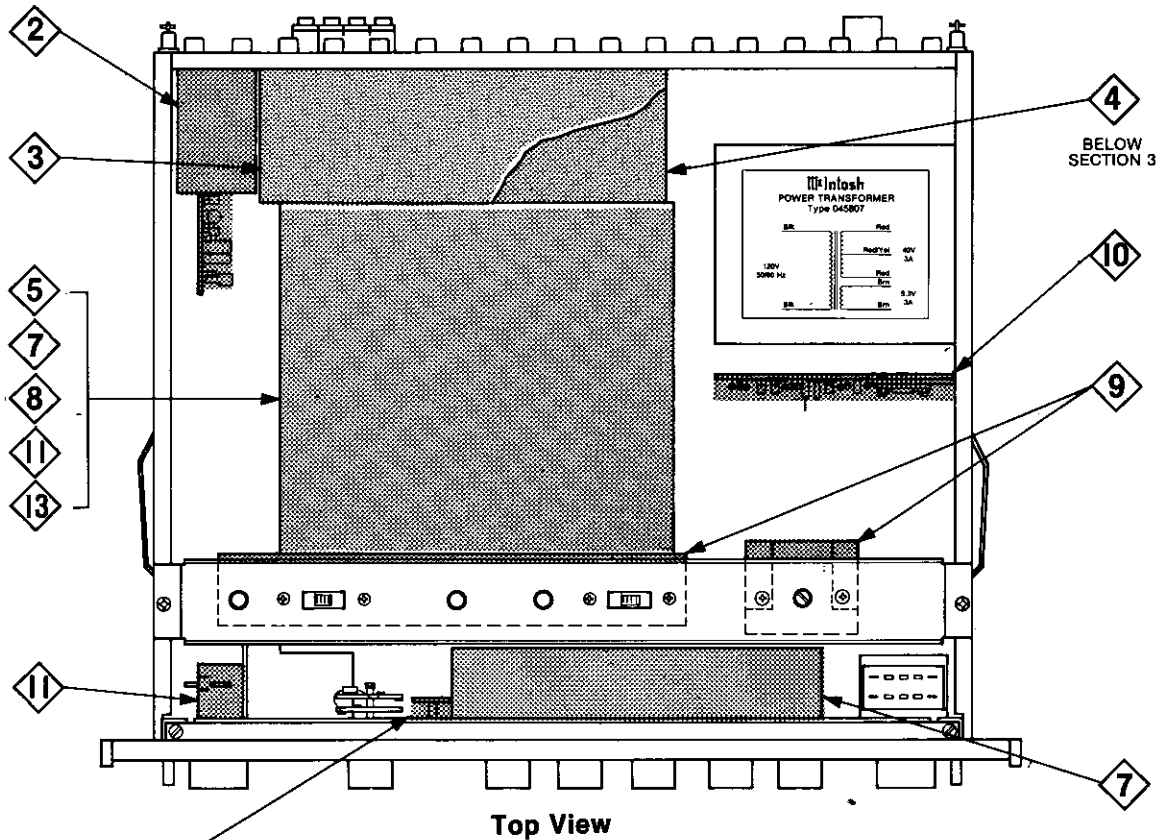
PARTS LIST

Symbol No.	Part No.	Description
LIGHTING DEVICES (LED = Light Emitting Diode)		
*DS1201	070093	LED, Red, HP5082-4658
*DS1202	070093	LED, Red, HP5082-4658
*DS1203	070093	LED, Red, HP5082-4658
*DS1204	070093	LED, Red, HP5082-4658
*DS1205	070093	LED, Red, HP5082-4658
*DS1206	070093	LED, Red, HP5082-4658
*DS1207	070093	LED, Red, HP5082-4658
*DS1208	070093	LED, Red, HP5082-4658
*DS1209	070093	LED, Red, HP5082-4658

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.



SECTION LOCATION



C33

Stereo Preamplifier

Schematics

039416

Sheet **3** of **3**

McIntosh

This sheet includes sections

7 EQUALIZER

8 HIGH and LOW FILTERS, AUDIO MUTING
and OUTPUT SELECTION

11 LISTEN / RECORD SELECTORS, RECORD MONITOR
SWITCHING, TURN-ON DELAY and MUTING DRIVE

12 PUSHBUTTON INDICATORS

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McIntosh Laboratory Inc. 2 Chambers Street, Binghamton, NY 13903-9990

Printed in U.S.A.

Telephone (607)723-3512

Part No. 039416

PARTS LIST

Symbol No.	Part No.	Description
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CAPACITORS (ELECT = Electrolytic, MPE = Metalized Polyester, CD = Ceramic Disc, PF = Polyester Film)

*C801	066316	ELECT, 10 μ F, 25V, NP
*C802	066316	ELECT, 10 μ F, 25V, NP
C803	064190	MPE, .22 μ F, 5%, 63V
C804	064190	MPE, .22 μ F, 5%, 63V
C805	064188	MPE, .15 μ F, 5%, 63V
C806	064188	MPE, .15 μ F, 5%, 63V
C807	064176	MPE, .015 μ F, 5%, 63V
C808	064176	MPE, .015 μ F, 5%, 63V
C809	061014	CD, 22pF, 10%, 500V, NPO
C810	061014	CD, 22pF, 10%, 500V, NPO
*C811	066316	ELECT, 10 μ F, 25V, NP
*C812	066316	ELECT, 10 μ F, 25V, NP
C813	064170	PF, .0056 μ F, 5%, 100V
C814	064170	PF, .0056 μ F, 5%, 100V
C815	064254	MPE, .1 μ F, 10%, 63V
C816	064254	MPE, .1 μ F, 10%, 63V

DIODES (SIG = Signal, Si = Silicon)

*D801	070047	Si, SIG, 75V, 10mA, IN4148
*D802	070047	Si, SIG, 75V, 10mA, IN4148
*D803	070047	Si, SIG, 75V, 10mA, IN4148
*D804	070047	Si, SIG, 75V, 10mA, IN4148

INTEGRATED CIRCUITS (AN = Analog, BP = Bipolar)

*IC801	133066	AN, BP, Operation Amp., NE-5534AN
*IC802	133066	AN, BP, Operation Amp., NE-5534AN

LIGHT DEPENDENT RESISTORS

*LDR801	144159	LDR, CLM6500
*LDR802	144159	LDR, CLM6500

TRANSISTORS (Si = Silicon, P = P Channel, J-FET = Junction FET)

*Q801	132170	Si, P, J-FET, MPF-970
*Q802	132170	Si, P, J-FET, MPF-970

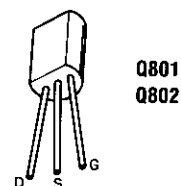
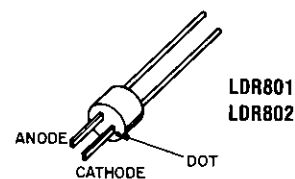
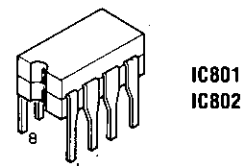
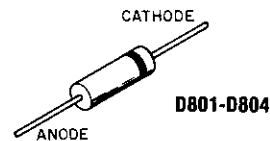
RESISTORS (CF = Carbon Film)

R801	141112	CF, 470k Ω , 5%, 1/4W
R802	141112	CF, 470k Ω , 5%, 1/4W
R803	141084	CF, 33k Ω , 5%, 1/4W
R804	141084	CF, 33k Ω , 5%, 1/4W
R805	141072	CF, 10k Ω , 5%, 1/4W
R806	141072	CF, 10k Ω , 5%, 1/4W
R807	141057	CF, 2.2k Ω , 5%, 1/4W
R808	141057	CF, 2.2k Ω , 5%, 1/4W
R809	141057	CF, 2.2k Ω , 5%, 1/4W
R810	141057	CF, 2.2k Ω , 5%, 1/4W
R811	141082	CF, 27k Ω , 5%, 1/4W
R812	141082	CF, 27k Ω , 5%, 1/4W
R813	141124	CF, 2.2M Ω , 5%, 1/4W
R814	141124	CF, 2.2M Ω , 5%, 1/4W
R815	141033	S/N CX2597 and above: CF, 220 Ω , 5%, 1/4W....(7495)
R816	141033	S/N CX2597 and above: CF, 220 Ω , 5%, 1/4W....(7495)

SWITCHES

*S801	150038	Pushbutton Switch (8)
-------	--------	-----------------------

* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.



NOTES:

8-1. D803 and D804 were mounted on the bottom of PC board 045817.

SECTION

8

HIGH and LOW

SECTION

11

LISTEN / RECORD SELECTORS, RECORD MON

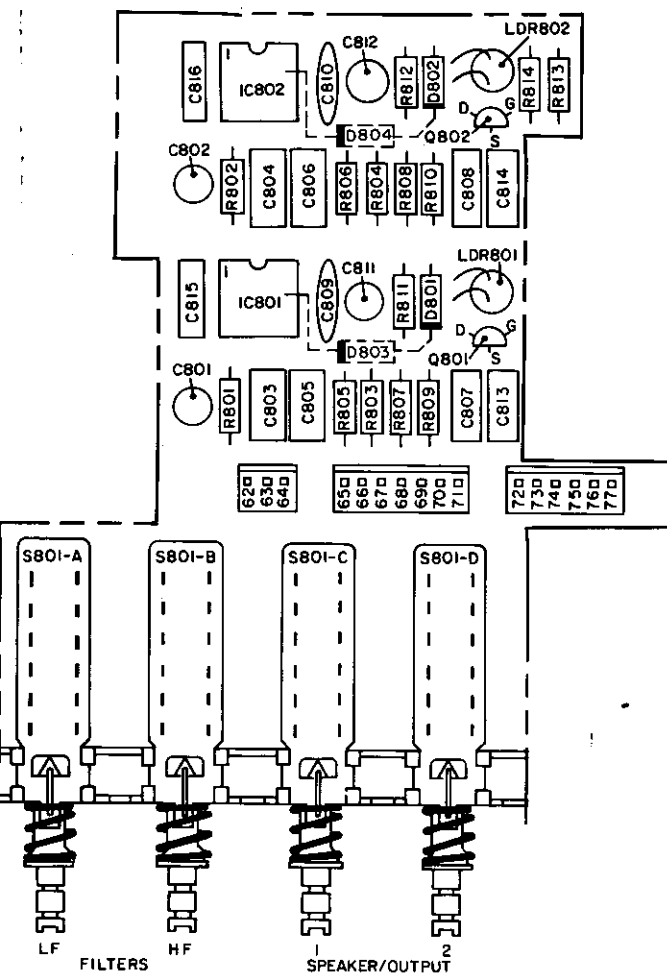


Fig. 8-2. PARTS LOCATION - PC board 045817 used in units CX1001 to CX2596.

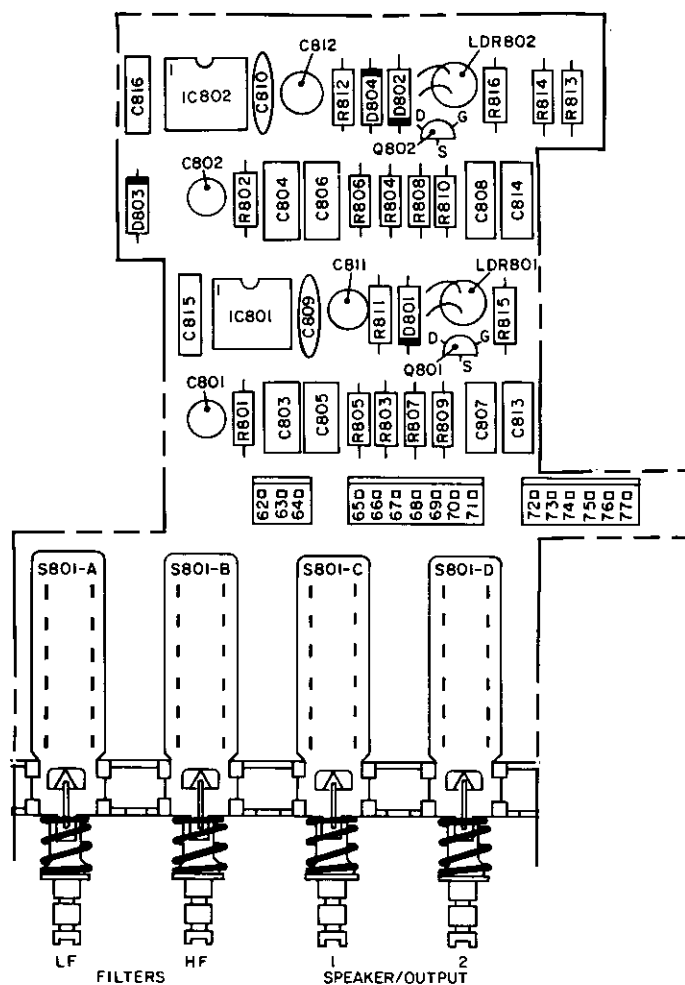


Fig. 8-3. PARTS LOCATION - PC board 045959 used in units CX2597 and above.

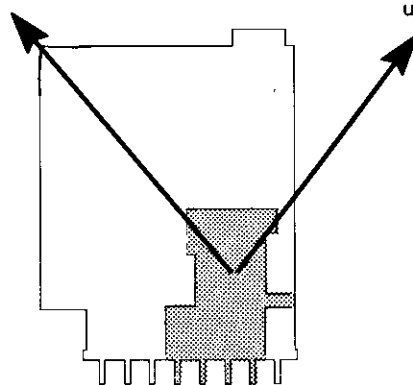
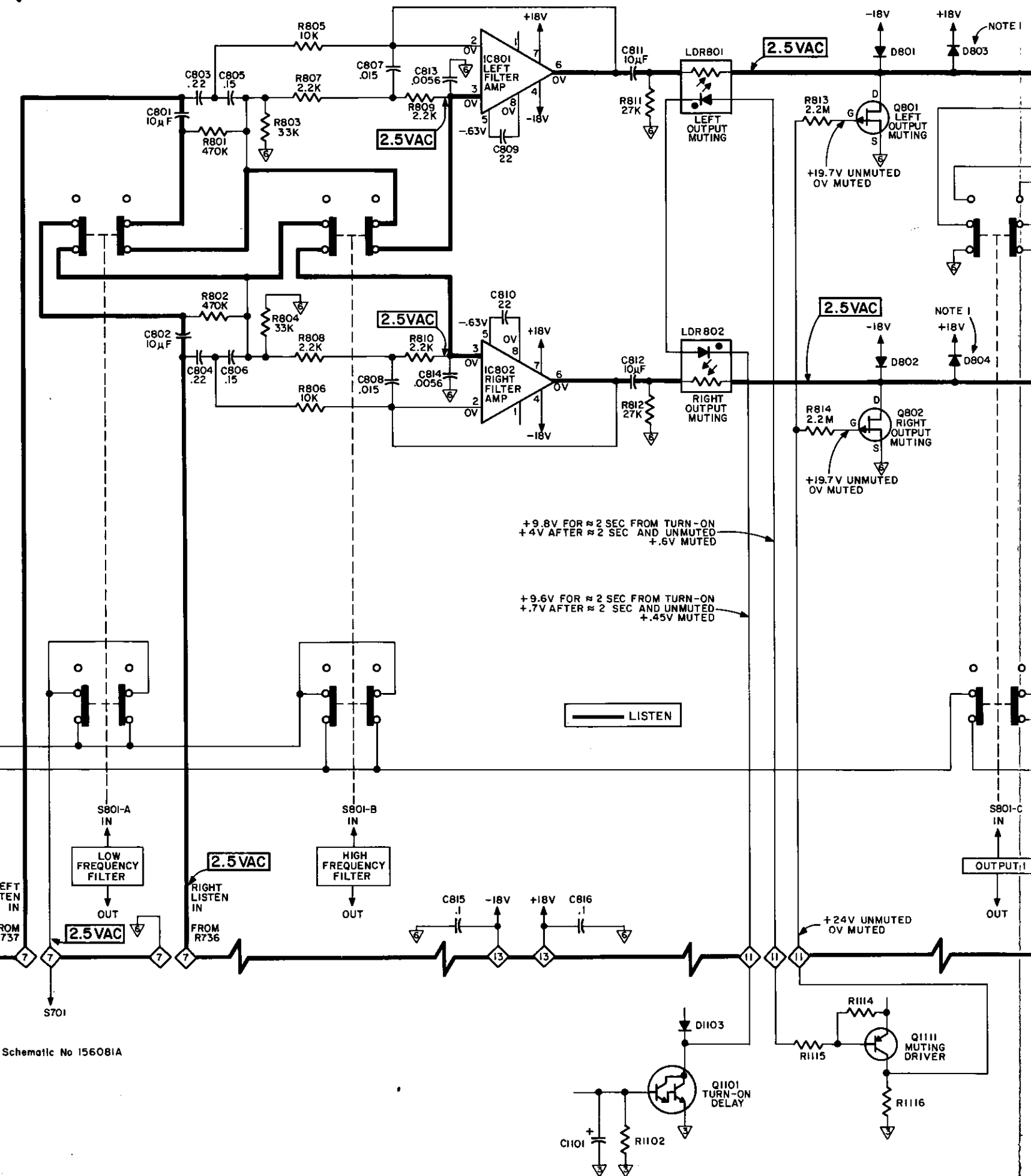


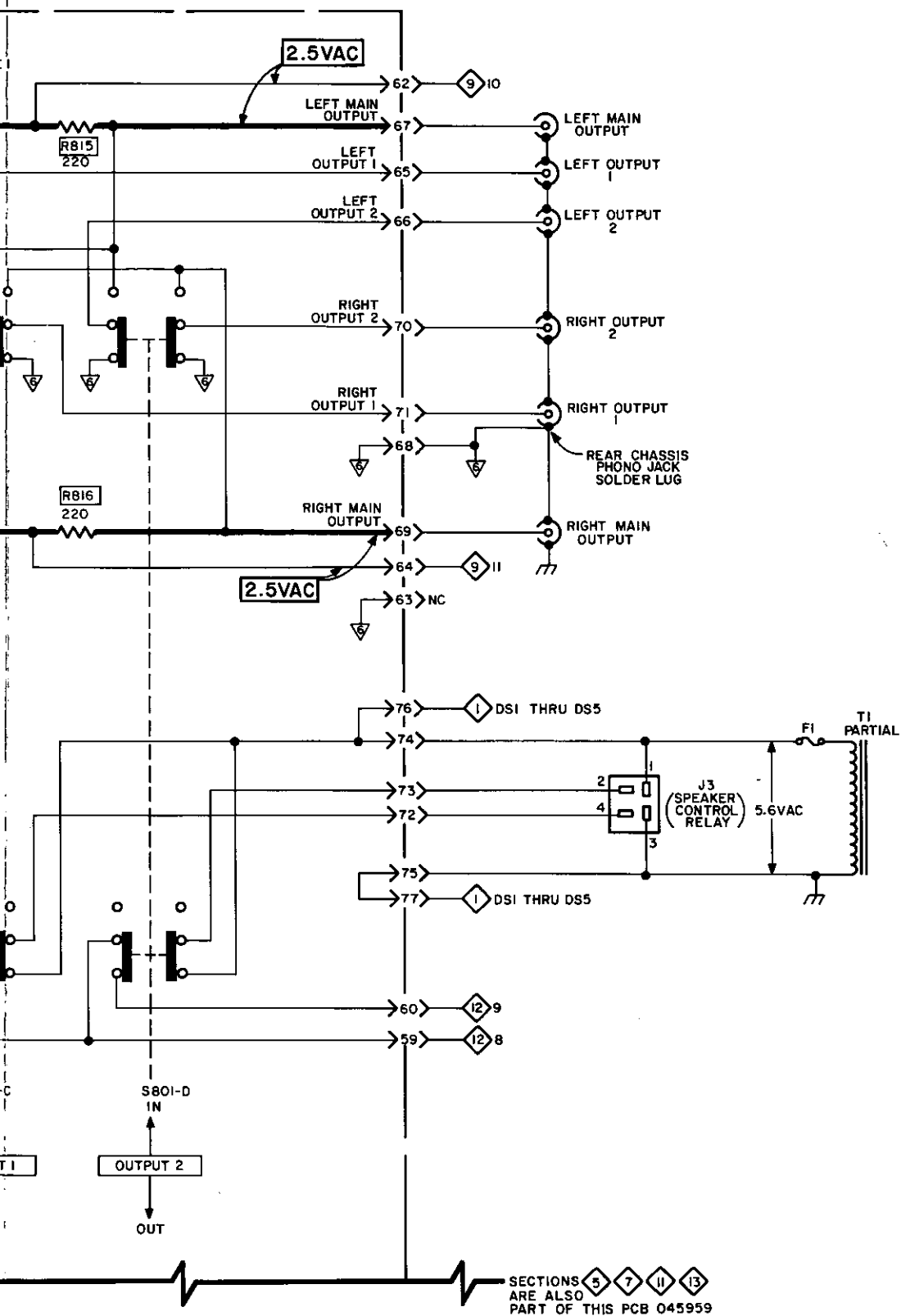
Fig. 8-1. PARTS LOCATION - Shaded area on main PC board 045817 or 045959.

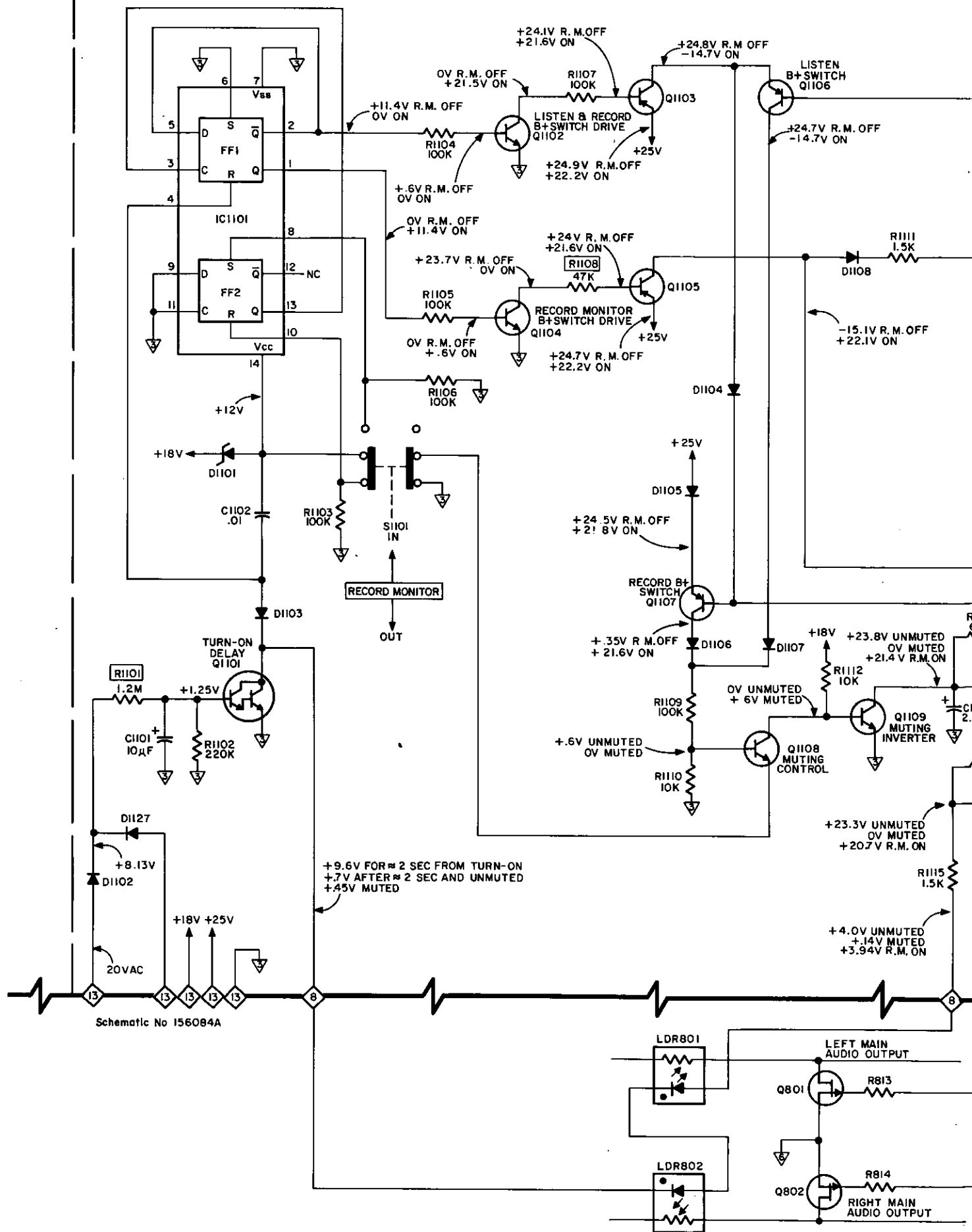
6 12 57
7 12 58

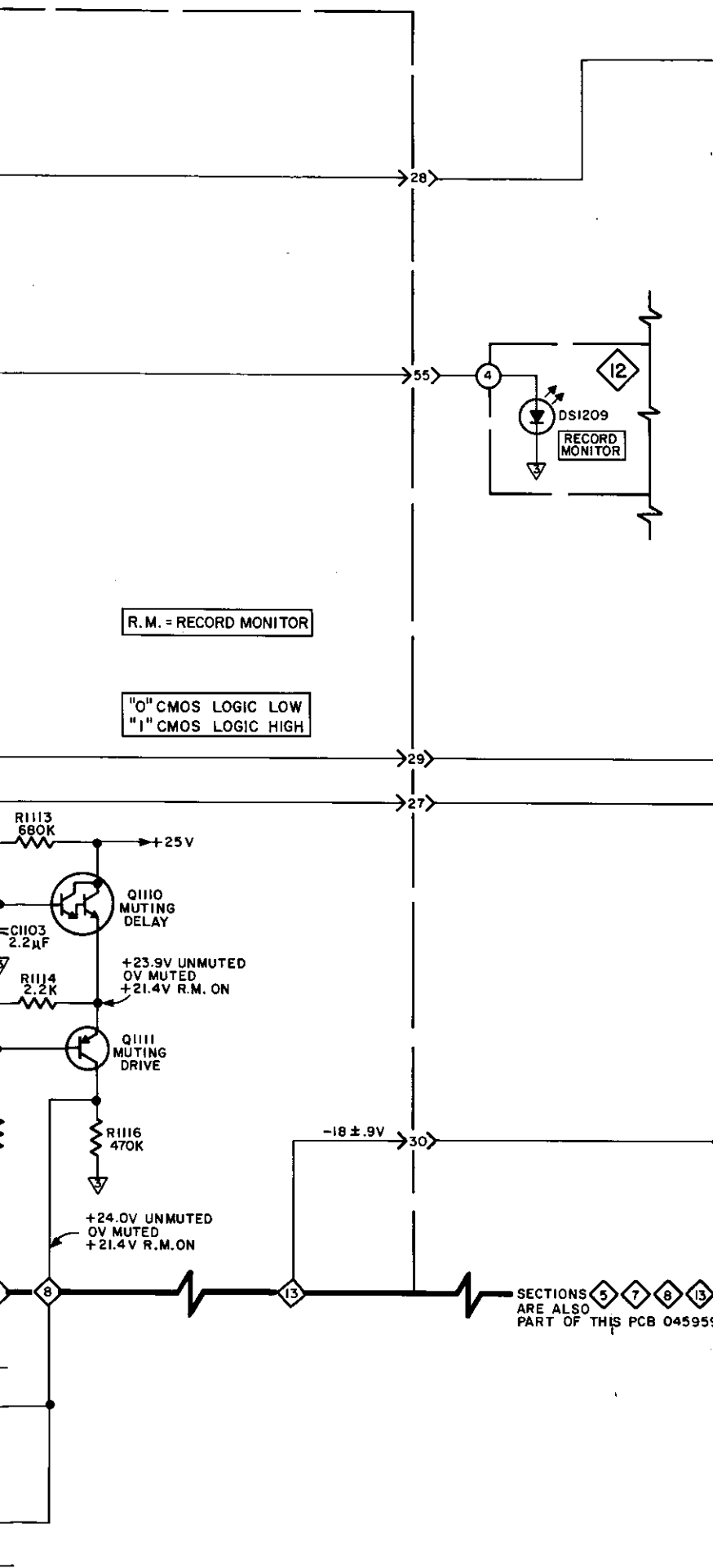
FILTERS, AUDIO MUTING and OUTPUT SELECTION

NITOR SWITCHING, TURN-ON DELAY and MUTING DRIVE





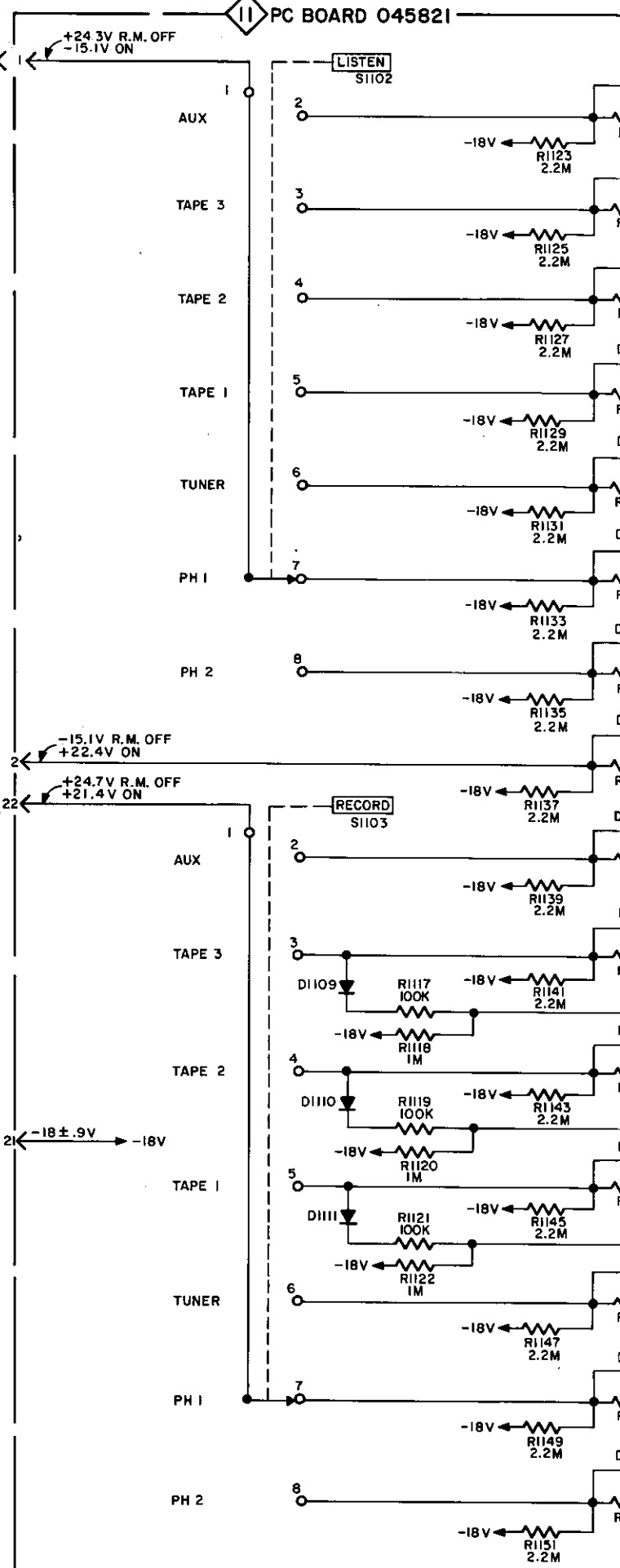




R.M. = RECORD MONITOR

"0" CMOS LOGIC LOW
"1" CMOS LOGIC HIGH

SECTIONS 5 7 8 13
ARE ALSO
PART OF THIS PCB 045959



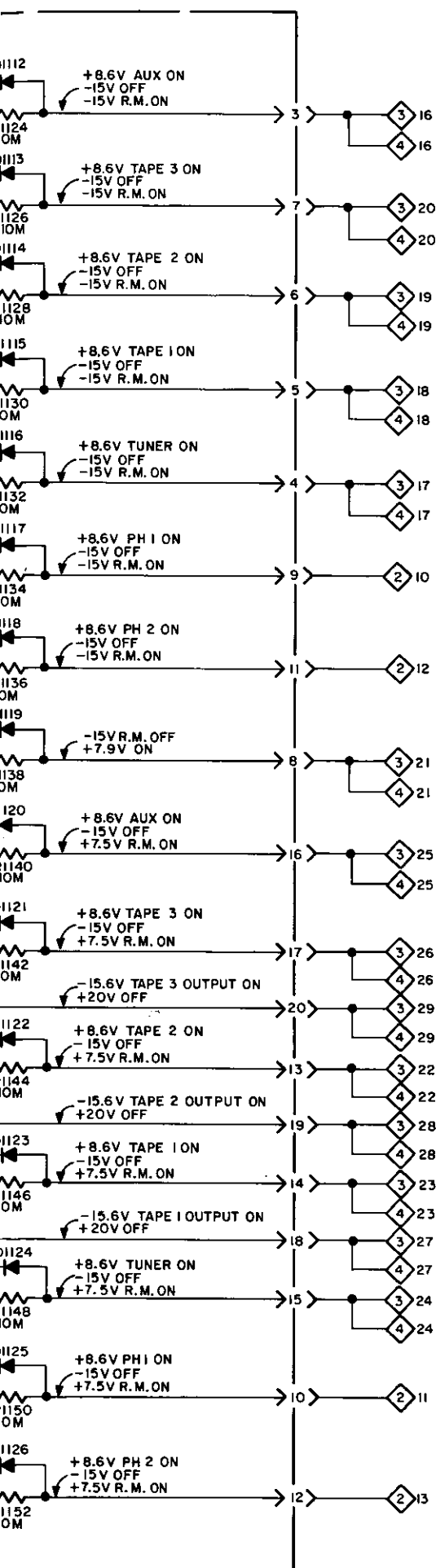


Fig. 11-1. PARTS LOCATION -
Three areas (shaded)
on main PC board
045817 or 045959.

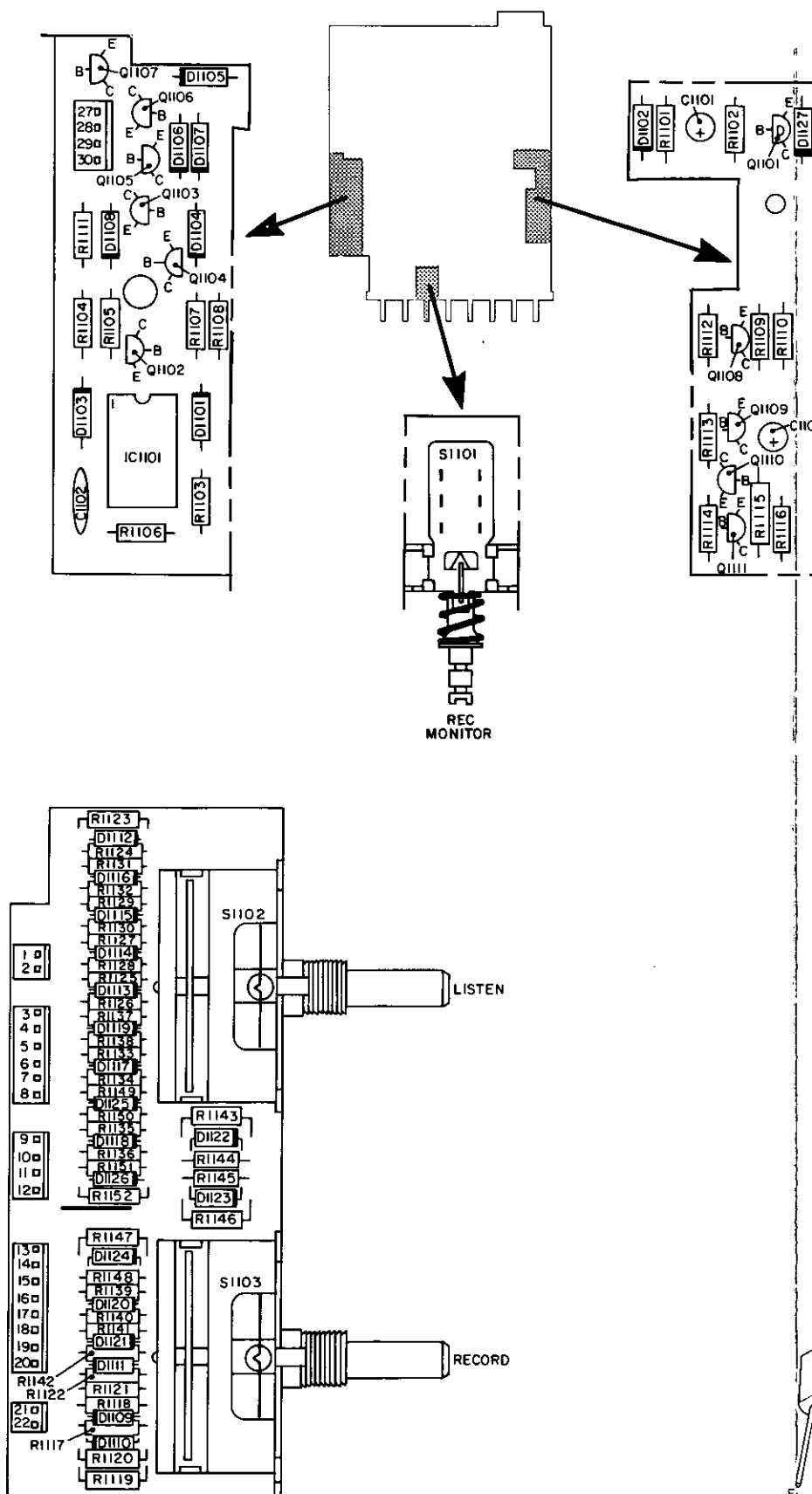


Fig. 11-2. PARTS LOCATION -
PC board 045821.

PARTS LIST

Symbol No.	Part No.	Description
CAPACITORS (CD = Ceramic Disc., ELECT = Electrolytic)		
C1101	066211	ELECT, 10 μ F, 16V
C1102	061159	CD, .01 μ F, +80 -20%, 50V
C1103	066237	ELECT, 2.2 μ F, 50V
DIODES (SIG = Signal, Si = Silicon, ZN = Zener)		
*D1101	070085	Si, ZN, 6.2V, 5%, 500mW, IN5234B
*D1102	070047	Si, SIG, 75V, 10mA, IN4148
*D1103	070047	Si, SIG, 75V, 10mA, IN4148
*D1104	070047	Si, SIG, 75V, 10mA, IN4148
*D1105	070047	Si, SIG, 75V, 10mA, IN4148
*D1106	070047	Si, SIG, 75V, 10mA, IN4148
*D1107	070047	Si, SIG, 75V, 10mA, IN4148
*D1108	070047	Si, SIG, 75V, 10mA, IN4148
*D1109	070047	Si, SIG, 75V, 10mA, IN4148
*D1110	070047	Si, SIG, 75V, 10mA, IN4148
*D1111	070047	Si, SIG, 75V, 10mA, IN4148
*D1112	070047	Si, SIG, 75V, 10mA, IN4148
*D1113	070047	Si, SIG, 75V, 10mA, IN4148
*D1114	070047	Si, SIG, 75V, 10mA, IN4148
*D1115	070047	Si, SIG, 75V, 10mA, IN4148
*D1116	070047	Si, SIG, 75V, 10mA, IN4148
*D1117	070047	Si, SIG, 75V, 10mA, IN4148
*D1118	070047	Si, SIG, 75V, 10mA, IN4148
*D1119	070047	Si, SIG, 75V, 10mA, IN4148
*D1120	070047	Si, SIG, 75V, 10mA, IN4148
*D1121	070047	Si, SIG, 75V, 10mA, IN4148
*D1122	070047	Si, SIG, 75V, 10mA, IN4148
*D1123	070047	Si, SIG, 75V, 10mA, IN4148
*D1124	070047	Si, SIG, 75V, 10mA, IN4148
*D1125	070047	Si, SIG, 75V, 10mA, IN4148
*D1126	070047	Si, SIG, 75V, 10mA, IN4148
*D1127	070047	S/N CX2597 and above: Si, SIG, 75V, 10mA, IN4148....(7495)

INTEGRATED CIRCUITS (DG = Digital, CMOS = Complementary MOS)		
*IC1101	133053	DG, CMOS, Dual Type D Flip-Flop, MC14013AL

TRANSISTORS (Si = Silicon, DAR = Darlington)		
*Q1101	132090	Si, NPN, DAR, Selected MPS-A14
*Q1102	132094	Si, NPN, BC-414C
*Q1103	132172	Si, PNP, MPS-A55
*Q1104	132094	Si, NPN, BC-414C
*Q1105	132172	Si, PNP, MPS-A55
*Q1106	132056	Si, PNP, 2N5087
*Q1107	132056	Si, PNP, 2N5087
*Q1108	132143	Si, NPN, MPS-D05
*Q1109	132171	Si, NPN, MPS-A05
*Q1110	132090	Si, NPN, DAR, Selected MPS-A14
*Q1111	132172	Si, PNP, MPS-A55

RESISTORS (CF = Carbon Film, CC = Carbon Composition)		
R1101	141116	S/N CX1001 to CX2596: CF, 680k Ω , 5%, 1/4W
	141121	S/N CX2597 and above: CF, 1.2M Ω , 5%, 1/4W....(7495)
R1102	141104	CF, 220k Ω , 5%, 1/4W
R1103	141096	CF, 100k Ω , 5%, 1/4W
R1104	141096	CF, 100k Ω , 5%, 1/4W
R1105	141096	CF, 100k Ω , 5%, 1/4W
R1106	141096	CF, 100k Ω , 5%, 1/4W
R1107	141096	CF, 100k Ω , 5%, 1/4W
R1108	141096	S/N CX1001 to CX1700: CF, 100k Ω , 5%, 1/4W
	141088	S/N CX1701 and above: CF, 47k Ω , 5%, 1/4W....(7436)
R1109	141096	CF, 100k Ω , 5%, 1/4W
R1110	141072	CF, 10k Ω , 5%, 1/4W
R1111	141053	CF, 1.5k Ω , 5%, 1/4W
R1112	141072	CF, 10k Ω , 5%, 1/4W
R1113	141116	CF, 680k Ω , 5%, 1/4W
R1114	141057	CF, 2.2k Ω , 5%, 1/4W
R1115	141207	CF, 1500 Ω , 5%, 1/2W
R1116	141112	CF, 470k Ω , 5%, 1/4W

R1117	141096	CF, 100k Ω , 5%, 1/4W
R1118	141120	CF, 1M Ω , 5%, 1/4W
R1119	141096	CF, 100k Ω , 5%, 1/4W
R1120	141120	CF, 1M Ω , 5%, 1/4W
R1121	141096	CF, 100k Ω , 5%, 1/4W
R1122	141120	CF, 1M Ω , 5%, 1/4W
R1123	141124	CF, 2.2M Ω , 5%, 1/4W
R1124	136476	CC, 10M Ω , 10%, 1/4W
R1125	141124	CF, 2.2M Ω , 5%, 1/4W
R1126	136476	CC, 10M Ω , 10%, 1/4W
R1127	141124	CF, 2.2M Ω , 5%, 1/4W
R1128	136476	CC, 10M Ω , 10%, 1/4W
R1129	141124	CF, 2.2M Ω , 5%, 1/4W
R1130	136476	CC, 10M Ω , 10%, 1/4W
R1131	141124	CF, 2.2M Ω , 5%, 1/4W
R1132	136476	CC, 10M Ω , 10%, 1/4W
R1133	141124	CF, 2.2M Ω , 5%, 1/4W
R1134	136476	CC, 10M Ω , 10%, 1/4W
R1135	141124	CF, 2.2M Ω , 5%, 1/4W
R1136	136476	CC, 10M Ω , 10%, 1/4W
R1137	141124	CF, 2.2M Ω , 5%, 1/4W
R1138	136476	CC, 10M Ω , 10%, 1/4W
R1139	141124	CF, 2.2M Ω , 5%, 1/4W
R1140	136476	CC, 10M Ω , 10%, 1/4W
R1141	141124	CF, 2.2M Ω , 5%, 1/4W
R1142	136476	CC, 10M Ω , 10%, 1/4W
R1143	141124	CF, 2.2M Ω , 5%, 1/4W
R1144	136476	CC, 10M Ω , 10%, 1/4W
R1145	141124	CF, 2.2M Ω , 5%, 1/4W
R1146	136476	CC, 10M Ω , 10%, 1/4W
R1147	141124	CF, 2.2M Ω , 5%, 1/4W
R1148	136476	CC, 10M Ω , 10%, 1/4W
R1149	141124	CF, 2.2M Ω , 5%, 1/4W
R1150	136476	CC, 10M Ω , 10%, 1/4W
R1151	141124	CF, 2.2M Ω , 5%, 1/4W
R1152	136476	CC, 10M Ω , 10%, 1/4W

SWITCHES

*S1101	150038	Pushbutton Switch (8)
*S1102	146215	Listen Switch
*S1103	146215	Record Switch

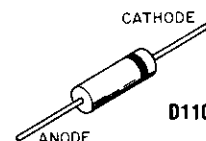
* Parts marked with an asterisk (*) are replacement parts stocked by our Service Department and must be ordered from McIntosh. These parts must be ordered by part number. Parts not marked may be obtained from electronic parts suppliers.



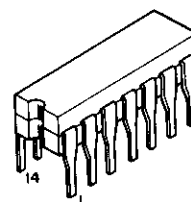
Q1102
Q1104



Q1101, Q1103
Q1105-Q1111



D1101-D1127



IC1101