

CONSOLE CONNECTOR KIT 7774 INSTALLATION INSTRUCTIONS
FOR USE WITH: WURLITZER Organ Model 805
LESLIE Speaker Model 212S

KIT CONTENT

Console Connector Assembly	135390	Tremolo Switch (2 furnished)	
Cable Assembly, 9-conductor,		brown	119070
30-foot	021600	ebony	119080
Hardware Package	121300	ivory	119090
Screw, wood, 6 x 1/2,		Echo Switch	
Phillips head (8)	029124	brown	119160
Screw, sheet metal, 8 x 1/2,		ebony	119170
Phillips head (3)	029132	ivory	119180
Staple, insulated (16)	028464		
Plug, 3-way, 117V	029611	Oiler	053025

CAUTION: Due to the presence of electrical potential and the danger of moving mechanical parts, installation procedures or adjustments requiring work inside the LESLIE speaker cabinet or the organ console should be performed only by a service man authorized by the dealer or factory to perform such work.

INSTALLATION

CAUTION. DISCONNECT ORGAN POWER BEFORE PROCEEDING!

1. Remove the organ back.
2. Mount the console connector on the pedal cover (figure 1).
3. Locate the dual-power amplifier (figure 1, 2). Remove the plug from the REVERB socket.
4. Insert the reverb output interceptor (red and yellow wires) plug into the socket; insert the plug just removed into the socket of the interceptor.
5. Also on the dual-power amplifier note the input sockets on the front; each has a gray cable connected. One cable has a red tape "flag" wrapped around it. Remove this cable and connect the plug of the red-taped cable from the console connector to the socket on the amplifier. Connect the socket of the redtaped cable from the console connector to the plug just removed.
6. Remove the other gray cable from the front of the dual-power amplifier and connect the second gray cable from the console connector in a similar manner.
7. Locate the D.C. keying and sustain section (figure 1) . Remove the screws at the left side, top and bottom, and swing the board outward to gain access to the interior.

8. At the interconnector board, mounted on the center divider, connect the swell interceptor to the lower socket.

ORBIT III CONNECTION (If the organ does not include the orbit III equipment go on to step 17.)

9. Remove the three screws from the back of the organ top panel.
10. (From the rear) locate a red wire coming from the organ top at the left (AC to the organ light); the wire terminates in a 3-contact plug. Disconnect the plug from its socket. (Some models may not have this wire.)
11. Pull the organ top panel toward the rear and upward; remove it.
12. Loosen a screw (toward the front) at each side of the stop rail and lift the latching plates. (Plates may be secured in the upward position, for convenience.) Lift the rail from the front.
13. Viewing the organ from the front, locate the orbit III power supply on a metal tray at the right. By the fuse caution label there are two plugs; remove the six-contact plug.
14. Insert the orbit III interceptor (gray cable) plug into the socket just described; insert the plug that was just removed into the socket of the interceptor.
15. Lower the stop rail and fasten it by moving the latching plates down into locked position and tightening the screws.

CONTROL INSTALLATION

16. Mount the control switches on the front of the organ.
17. Route the wires into the interior of the organ by going through the keybed.
18. Connect each plug to its socket on the console connector. (Each socket is labeled.)
19. Reposition the top panel. Replace the plug which is on the red wire to its socket at the left rear.
20. Connect the 9-conductor cable assembly from the console connector kit between the console connector and the LESLIE speaker.
21. Reposition the D.C. keying and sustain section board and fasten it with its two screws at the left side.
22. Replace the organ back.

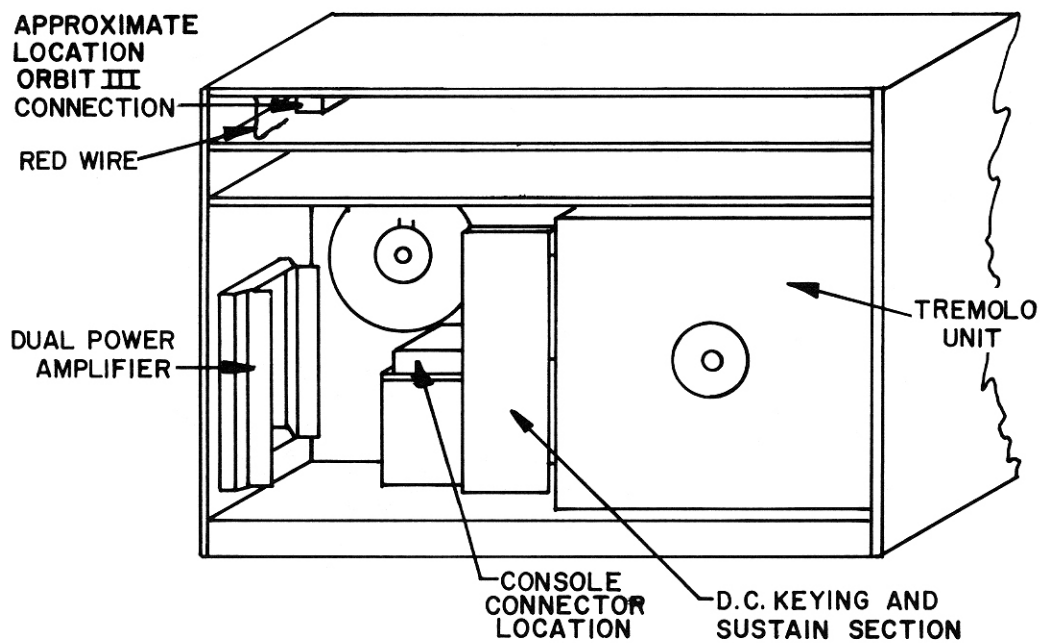


Figure 1. Connection and Installation Locations

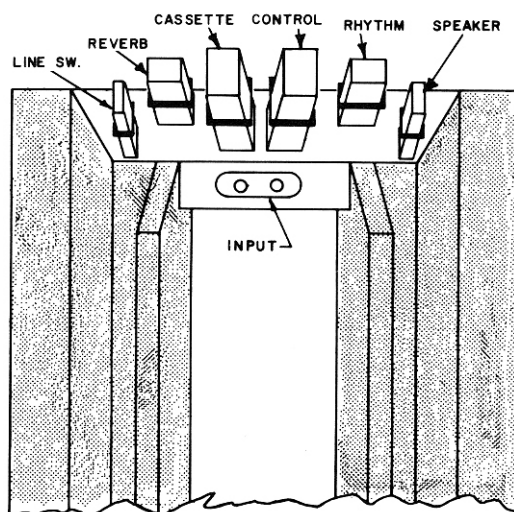


Figure 2. Dual-power Amplifier

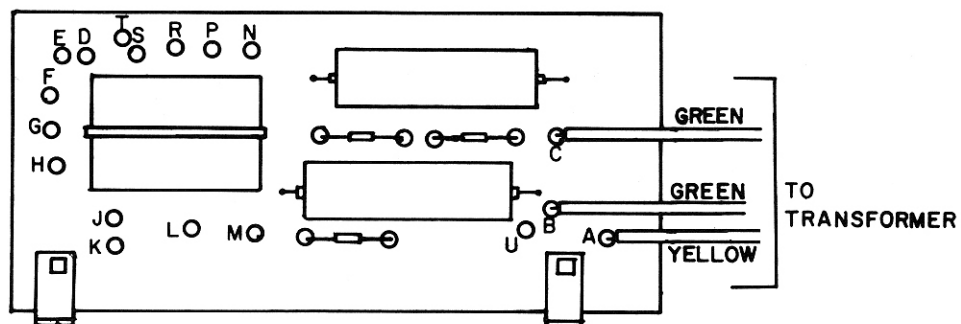


Figure 3. Circuit Board 118150 Wiring

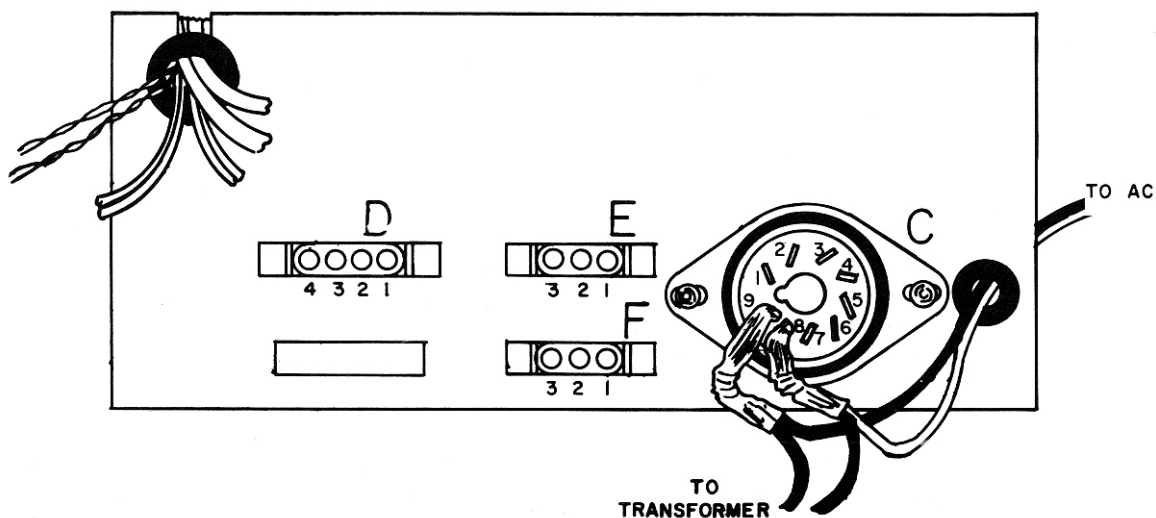


Figure 4. Portion of Console Connector 135390, Wiring

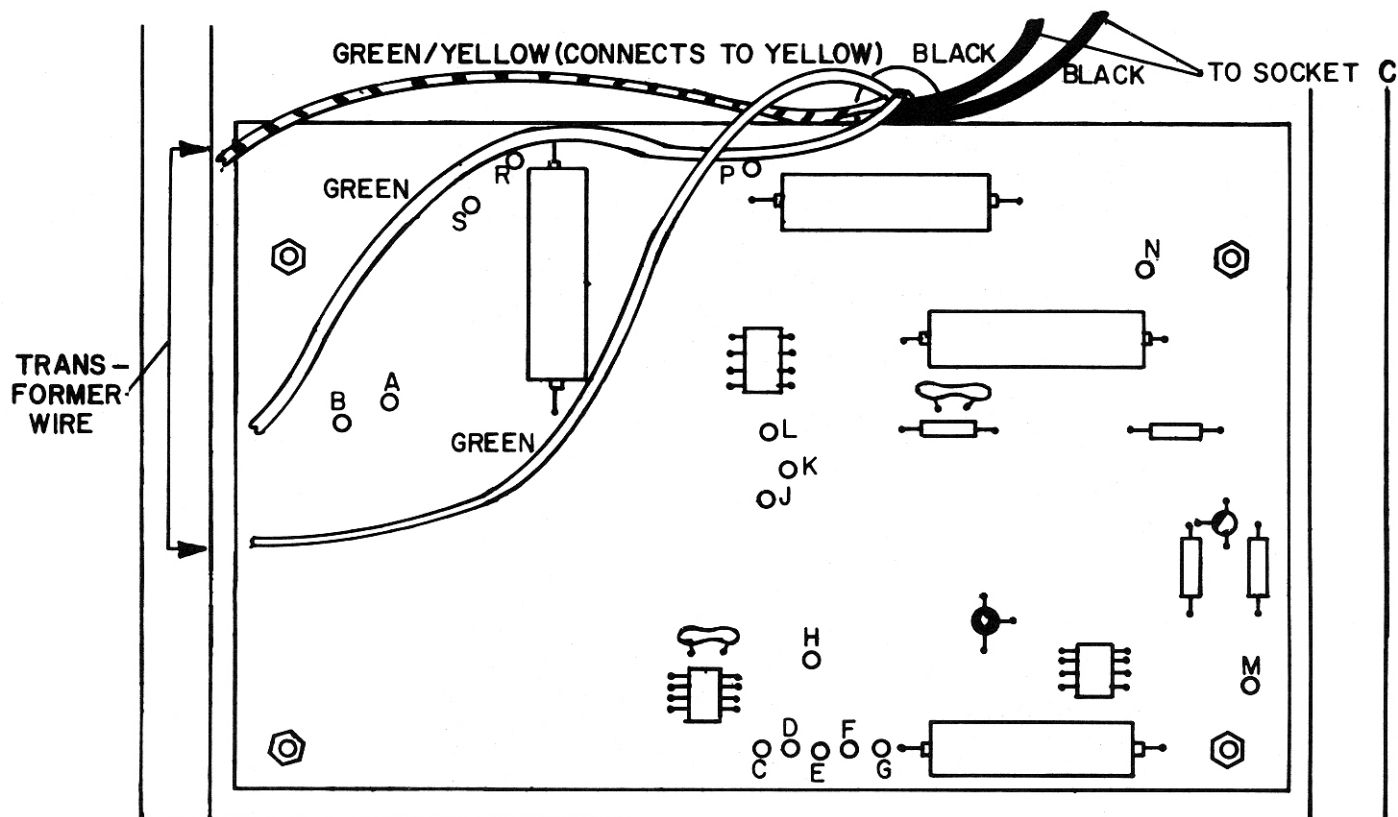


Figure 5. Circuit Board 135300 and Transformer Wiring

WIRING LIST

Key

A	Circuit Board Assy 118150
B	Circuit Board Assy 135300
C	Socket 028837 (9-contact)
D	Socket 042093 (4-contact)
E	Socket 043265 (3-contact)
F	Socket 043265 (3-contact)

Key

G	Transformer 022244
H	Interceptor Assy 118170
J	Interceptor Assy 118180
K	Interceptor Assy 135310
L	Cable Assy 135370
M	Cable Assy 135330

INTERNAL CONNECTIONS*

<u>From</u>		<u>Color or ID</u>	<u>To</u>	
A, point	D	blue	B, point	J
"	F	white	"	F
"	J	yellow	"	L
"	M	white	D, pin	3
"	U	black	"	2
B, point	C	blue	F, pin	2
"	D	violet	"	2
"	G	white	C, pin	1
"	M	green	"	5
"	N	black	"	3
"	P	orange	"	2
"	R	red	"	4
"	S	white	D, pin	4
C, pin	6	blue	F, pin	3
"	7	violet	E, pin	3

*In addition to those shown on figures

INTERNAL-EXTERNAL CONNECTIONS

<u>From</u>		<u>Color or ID</u>	<u>To</u>
A, point	E	red	J socket contact 6
"	G	clear	H plug contact 5
"	H	yellow	J plug contact 6
"	K	red	H socket contact 5
"	L	clear	L
"	N	red	M plug
"	P	red	L
"	R	clear	M jack
"	S	shield	M plug and jack
"	T	shield	H plug & socket contact 4
"	V	shield	L plug and jack
B, point	B	red	K
"	B	orange	K
"	E	drain	K
"	H	yellow	K
"	H	green	K
"	K	black	K
"	K	brown	K

Ordering Parts

Standard hardware, connectors, and electronic components should be purchased locally. Non-standard items may be obtained through a LESLIE speaker dealer. Orders should include part numbers as listed.

PARTS LIST: 135390 CONSOLE CONNECTOR ASSEMBLY

Interceptor Assembly, 6-circuit	118170
Interceptor Assembly, 6-circuit	118180
Interceptor Assembly, 24-circuit	135310
Cable Assembly, phono plug and jack	135330
Cable Assembly, phone plug and jack (coded)	135370
Circuit Board Assembly	118150
---attaching parts --	
Screw, sheet metal, 6 x 1/4, hex washer head	026666
---*** --	
 circuit Board Assembly, pre-amp	 135300
---attaching parts --	
Screw, machine, 6/32 x 3/8, hex washer head	113780
Stand-off, 6-32 x .375	121290
---*** --	
 Transformer, filament	 022244
---attaching parts --	
Screw, sheet metal, 6 x 1/4, hex washer head	026666
---*** --	
 Cable Assembly, 117V, 48 in., BRN-SPT-l, with plug	 019935
Relay, 4-pole double-throw, 12VDC	049551
Retainer Clip, relay, 4-pole type	049593
Socket, 9-contact	028837
---attaching parts --	
Screw, sheet metal, 12 x 3/8, Phillips head	029314
---*** --	
 Housing, socket, 3-circuit, red, Molex, with tabs	 043265
Housing, socket, 4-circuit, natural (white) , Molex, with tabs	042093
Insert, contact, Inline, Molex, female	023556
Grommet, neoprene, .250 ID x .443	014084
Grommet, neoprene, .500 ID x .625	048124

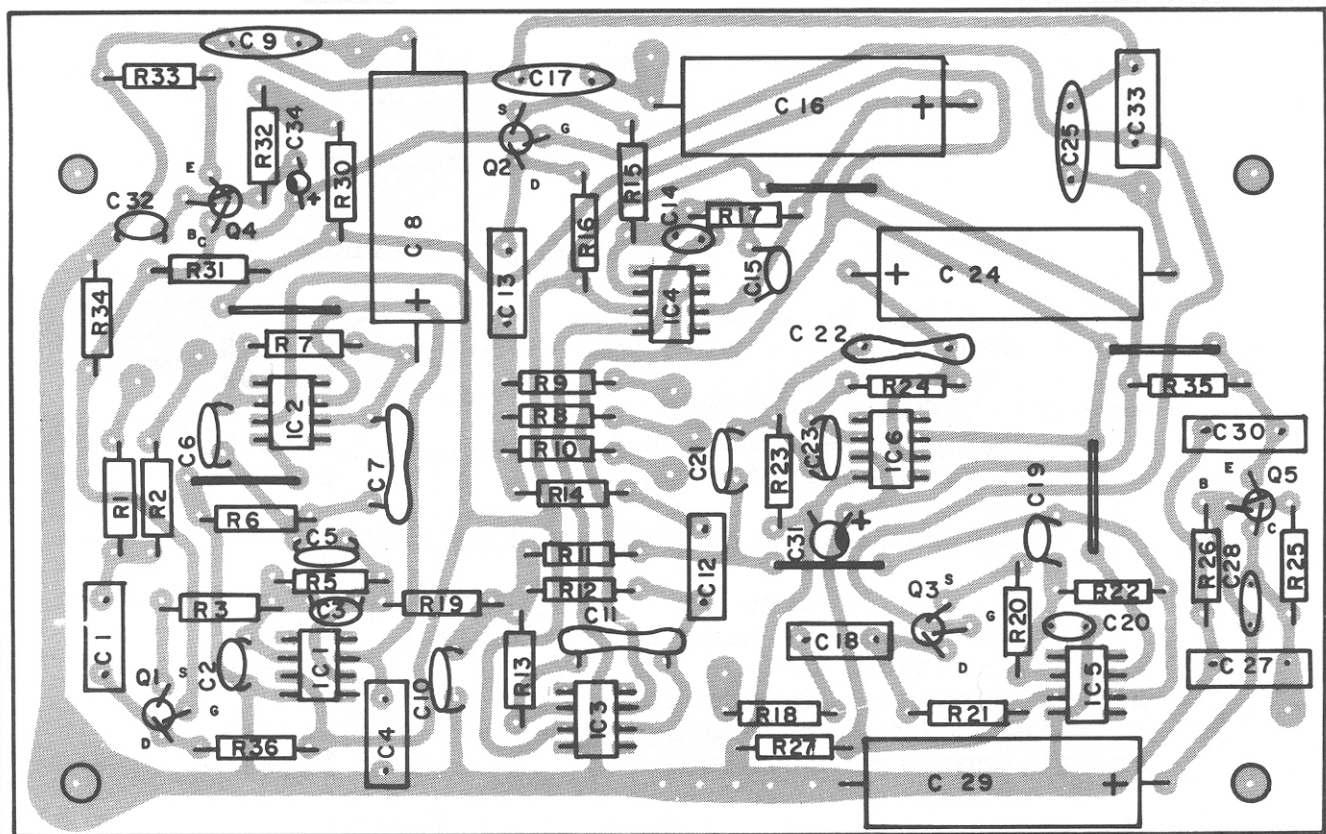


Figure 6. Circuit Board Assembly 135300 Parts Location

C1	Capacitor, poly, 0.1 mfd, 200V, 20%	022251
C2, C3	Capacitor, disc, 100pf, 1000V, 20%	028027
C4	Capacitor, poly, 0.1 mfd, 200V, 20%	022251
C5, C6	Capacitor, disc, 3300pf, 100V, 20%	067546
C7	Capacitor, mica, 600pf, 500V, .5%	024034
C8	Capacitor, electrolytic, 150 mfd, 25V	031294
C9	Capacitor, disc, 0.1 mfd, 1000V, 20%	060467
C10	Capacitor, disc, 4700pf, 100V, 10%	028431
C11	Capacitor, mica, 900pf, 500V, 5%	024042
C12, C13	Capacitor, poly, 0.1 mfd, 200V, 20%	022251
C14	Capacitor, disc, 100pf, 1000V, 20%	028027
C15	Capacitor, disc, 6.8pf, 1000V, 10%	118140
C16	Capacitor, electrolytic, 150 mfd, 25V	031294
C17	Capacitor, disc, .01 mfd, 1000V, 20%	060467
C18	Capacitor, poly, 01 mfd, 200V, 20%	022251
C19	Capacitor, disc, 56pf, 1000V, 10%	022350
C20	Capacitor, disc, 100pf, 1000V, 20%	028027
C21	Capacitor, disc, 3300pf, 100V, 10%	067546
C22	Capacitor, mica, 600pf, 500V, 5%	024034
C23	Capacitor, disc, 3300pf, 100V, 10%	067546
C24	Capacitor, electrolytic, 150 mfd, 25V	031294
C25	Capacitor, disc, .01 mfd, 1000V, 20%	060467
C27	Capacitor, poly, 0.1 mfd, 200V, 20%	022251

C28	Capacitor, disc, 4700pf, 100V,10%	028431
C29	Capacitor, electrolytic, 250 mfd, 35V	065086
C30	Capacitor, poly, 0.1 mfd, 200V, 20%	022251
C31	Capacitor, tantalum, 22 mfd, 15V, 20%	062638
C32	Capacitor, disc, 100pf, 1000V, 20%	028027
C33	Capacitor, poly, 0.1 mfd, 200V,20%	022251
C34	Capacitor, tantalum, 1 mfd, 35V	067538
IC1 through IC6	Integrated Circuit, operational amplifier	112640
Q1, Q2, Q3	Transistor, FET, 2N5163	023606
Q4, Q5	Transistor, 2N3859A, NPN	061366
*R1, R2	Resistor, 470K	018002
R3	Resistor, 10K	028548
R5	Resistor,390K	018010
R6	Resistor, 220K	013615
R7	Resistor, 3.3 meg	118120
R8	Resistor, 1.8 meg	118130
R9	Resistor, 470K	018002
R10	Resistor, 1.8 meg	118130
R11, R12	Resistor, 1 meg	024125
R13	Resistor, 330K	020826
R14	Resistor, 1.8 meg	118130
R15	Resistor, 10K	028548
R16	Resistor, 1 meg	024125
R17	Resistor, 1.8 meg	118130
R18	Resistor, 470K	018002
R19	Resistor, 1 meg	024125
R20	Resistor, 10K	028548
R21	Resistor, 1 meg	024125
R22	Resistor, 390K	018010
R23	Resistor, 220K	013615
R24	Resistor, 3.3 meg	118120
R25	Resistor, 2.2K	028571
R26	Resistor, 56K	024133
R27	Resistor, 10K, 1/2W, 5%	118110
R30	Resistor, 390K	018010
R31	Resistor, 12K, 1/2W, 5%	021543
R32	Resistor, 47K	028555
R33	Resistor, 470 ohms	028068
R34, R35	Resistor, 10K, 1/2W, 5%,	118110
R36	Resistor, 1 meg	024125
Etched Circuit Board		113270

*Resistors 1/2W 10% unless otherwise specified

PARTS LIST: 118170 INTERCEPTOR ASSEMBLY

Housing, plug, 6-circuit,	
natural, (white), miniature Molex	066548
Insert, contact, male	065599
Housing, socket, 6-circuit,	
natural (white), miniature Molex	066555
Insert, contact, female	065581

PARTS LIST: 118180 INTERCEPTOR ASSEMBLY

Housing, plug, 6-circuit,	
natural (white), miniature Molex	066548
Insert, contact, male	065599
Housing, socket, 6-circuit,	
natural (white), miniature Molex	066555
Insert, contact, female	065581

PARTS LIST: 135310 INTERCEPTOR ASSEMBLY

Housing, plug, 24-circuit,	
natural (white), miniature Molex	110130
Insert, contact, male	065599
Housing, socket, 24-circuit,	
natural (white), miniature Molex	110120
Insert, contact, female	065581

PARTS LIST: 135330 CABLE ASSEMBLY

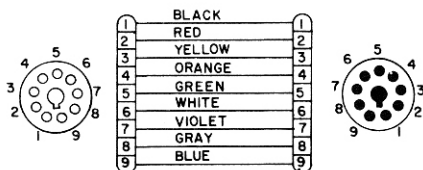
Jack, extension	015396
Plug, phono	029876

PARTS LIST: 135370 CABLE ASSEMBLY

Jack, extension	015396
Plug, phono	029876

PARTS LIST: 021600 CABLE ASSEMBLY

Plug Assembly, 9-pin	061879
Socket, 9-contact	028837
Cap, body	022046
Clamp, cut	022079
Screw, machine, 6-32 x 3/8	027979



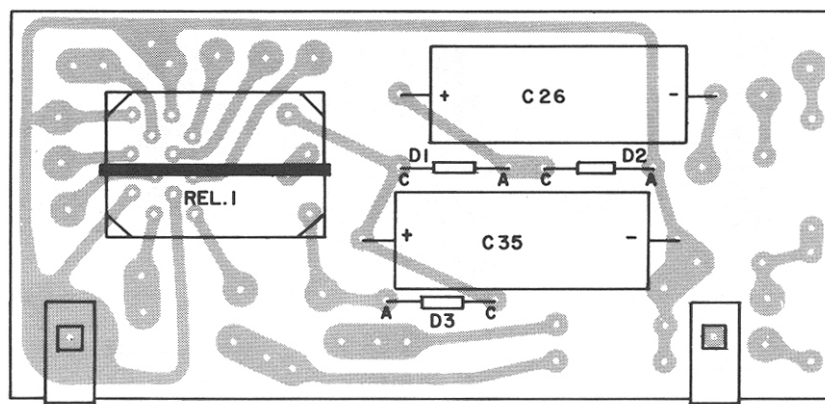


Figure 7. Circuit Board Assembly 118150

Socket, relay	049577
Relay, 4PDT, 12VDC, Zettler	049571
Capacitor, electrolytic, 250 mfd, 35V (C26, C35)	065086
Rectifier, silicone, 30PIV, 500MW (D1, D2, D3)	041616
Nut, Tinnerman	025965
Circuit Board, etched	110680

PARTS LIST: TREMOLO CONTROL

Switch Case	Switch, Cable, & Plug Assembly	064535
brown 118980		
ebony 118990		
ivory 119000	Switch Retainer (2)	048744
Case Cover		
brown 048702	Screw, thread-cutting, 6-32 x 3/8 (2)	029140
ebony 048710		
ivory 048728		
Switch Knob	Label, CHORALE/TREMOLO	103640
brown 048066		
ebony 048074	Cork, adhesive	029157

PARTS LIST: ECHO CONTROL

Switch Case	Switch, Cable, & Plug Assembly	119010
brown 118980		
ebony 118990		
ivory 119000	Switch Retainer (2)	048116
Case Cover		
brown 048702	Screw, thread-cutting, 6-32 x 3/8 (2)	029140
ebony 048710		
ivory 048728		
Switch Knob	Label, MAIN/ENSEMBLE/ECHO	103670
brown 048066		
ebony 048074	Cork, adhesive	029157

MULTIPLE SPEAKER INSTALLATION

For complete information see the service manual for the LESLIE speaker to be added.

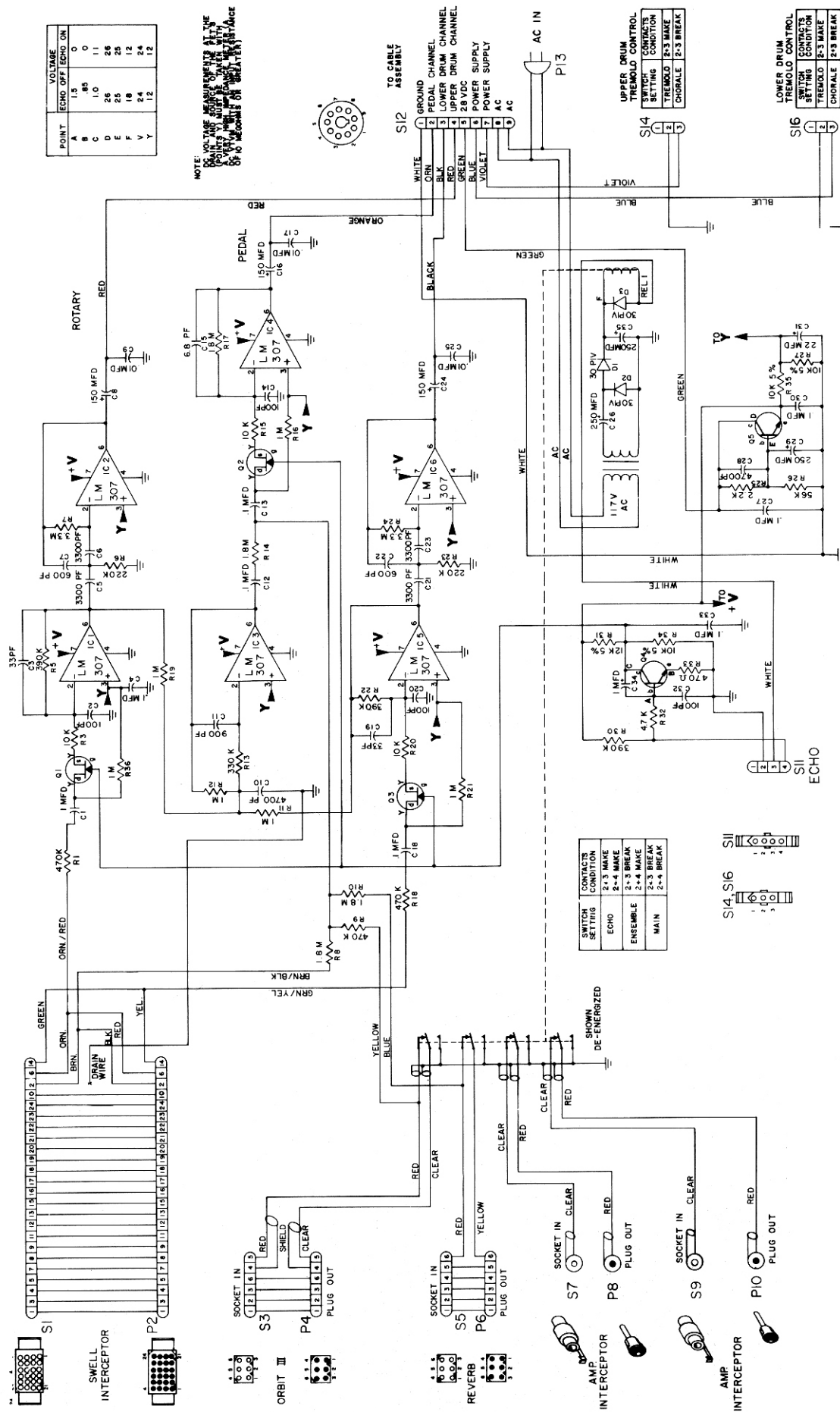


Figure 8. Schematic, Console Connector Part No. 135390 and Controls
(Plugs and Sockets Shown from Wire End)