

CONSOLE CONNECTOR KIT 7416 INSTALLATION INSTRUCTIONS
FOR USE WITH: Lowrey Organ Model TLOK-S
LESLIE Speaker Model 600

KIT CONTENT

Console Connector Assembly	117850	Echo Control	
Cable Assembly, 9-conductor, 30-ft.	021600	brown	042200
Screw, sheet metal, 8 x 1/2, Phillips head	029132	ebony	042218
Screw, wood, 6 x 1/2, Phillips head	029124	ivory	042226
Staple, insulated	028464		
Oiler	053025		
Installation Instructions	117940		
		Tremolo Control	
		brown	069880
		ebony	069898
		ivory	069906
		Multi-rank Control	
		brown	069948
		ebony	069955
		ivory	069963

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 authorize by the dealer or factory to perform such work.

INSTALLATION

CAUTION: DISCONNECT ORGAN POWER BEFORE PROCEEDING!

1. Mount the control switches under the keybed.
2. Remove the screws that hold the mike input plate for the tape recorder, under the keyboard, at the left. (The plate will not come all the way off.)
3. Thread the switch cords through the opening behind the plate and through the organ to the side of the built-in tremolo unit.
4. Refasten the plate.
5. Mount the console connector on the side of the built-in tremolo unit.
6. Attach the echo, tremolo, and multi-rank control plugs to the sockets on the console connector. Each is labeled.
7. Remove the plug from the socket marked A (see figure) on the organ amplifier. Connect this plug to the socket of the 12-circuit interceptor. Connect the interceptor plug to socket A.
8. Remove the plug from the built-in tremolo unit of the organ. Connect this plug to the socket of the 6-circuit interceptor. Connect the interceptor plug to the tremolo unit socket.
9. Connect console connector plug P1 to the socket marked ECHO FOR LESLIE 45A or 47, on the organ amplifier (detail A).

PARTS LIST: 117850 CONSOLE CONNECTOR ASSEMBLY

Circuit Board Assembly (motor sensor)	069778
- - attaching parts -	
Screw, machine, 8-32 x 1-1/4	040345
Nut, hex, 8-32 x 11/32 x 1/8	026773
Washer, lock, 8 x 5/16 x .020	026765
Washer, flat, 8 x 3/8 x 1/32	037325
Bushing, aluminum, .196 x .312 x .625	055079
- - * * * -	
Can Assembly, lamp housing (mounted on circuit board assembly 069778)	063826
Circuit Board Assembly (console connector)	069781
- - attaching parts -	
Screw, machine, 8-32 x 1-3/4	015586
Nut, hex, 8-32 x 11/32 x 1/8	026773
Washer, lock, 8 x 5/16 x .020	026765
Washer, flat, 8 x 3/8 x 1/32	037325
Bushing, aluminum, .196 x .312 x .625	055079
Bushing, aluminum, .196 x .312 x .500	050740
- - * * * -	
Transformer, filament	022244
- - attaching parts -	
Screw, sheet metal, 6 x 1/4, hex washer head	026666
- - * * * -	
Socket, 9-contact, with mounting plate (S4)	061713
- - attaching parts -	
Screw, sheet metal, 12 x 3/8, Phillips head	029314
- - * * * -	
Cable & Plug Assembly, 6-pin, 20-in.	117870
Plug, 6-pin, Amphenol (P1)	061721
Interceptor Assembly, Amp, 12-circuit, 22-in.	114030
Housing, plug, 12-circuit, Amp (P8)	114080
Housing, socket, 12-circuit, Amp (S9)	114090
Housing, socket, 4-circuit, Molex (S7)	042093
Insert, contact, Inline, Amp, male	010421
Insert, contact, Inline, Amp, female	010397
Insert, contact, Inline, Molex, female	023556
Interceptor Assembly, 6-pin	117860
Housing, plug, 6-circuit Amp (P2)	056929
Insert, contact, Inline, Amp, male	010421
Housing, socket, 6-circuit, Amp (S3)	069823
Insert, contact, Inline, Amp, female	010397
Housing, socket, 3-circuit, Molex, white (S6)	042077
Housing, socket, 3-circuit, Molex, red (S5)	043265
Insert, contact, Inline, Molex, female	023556
Bushing, strain relief, .750ID-7P-2	034769
Grommet, plastic, .250ID x .375	028811
Terminal Strip 2-lug, solder	055327
Terminal Strip 1-lug, cinch	055319
Screw, sheet metal, 6 x 1/4, hex washer head	026666
Washer, lock, 6 x 9/32 x .018	028993
Resistor, wire-wound, 32-ohm, 10W, 10%	029769
Stud, Trimount	012690

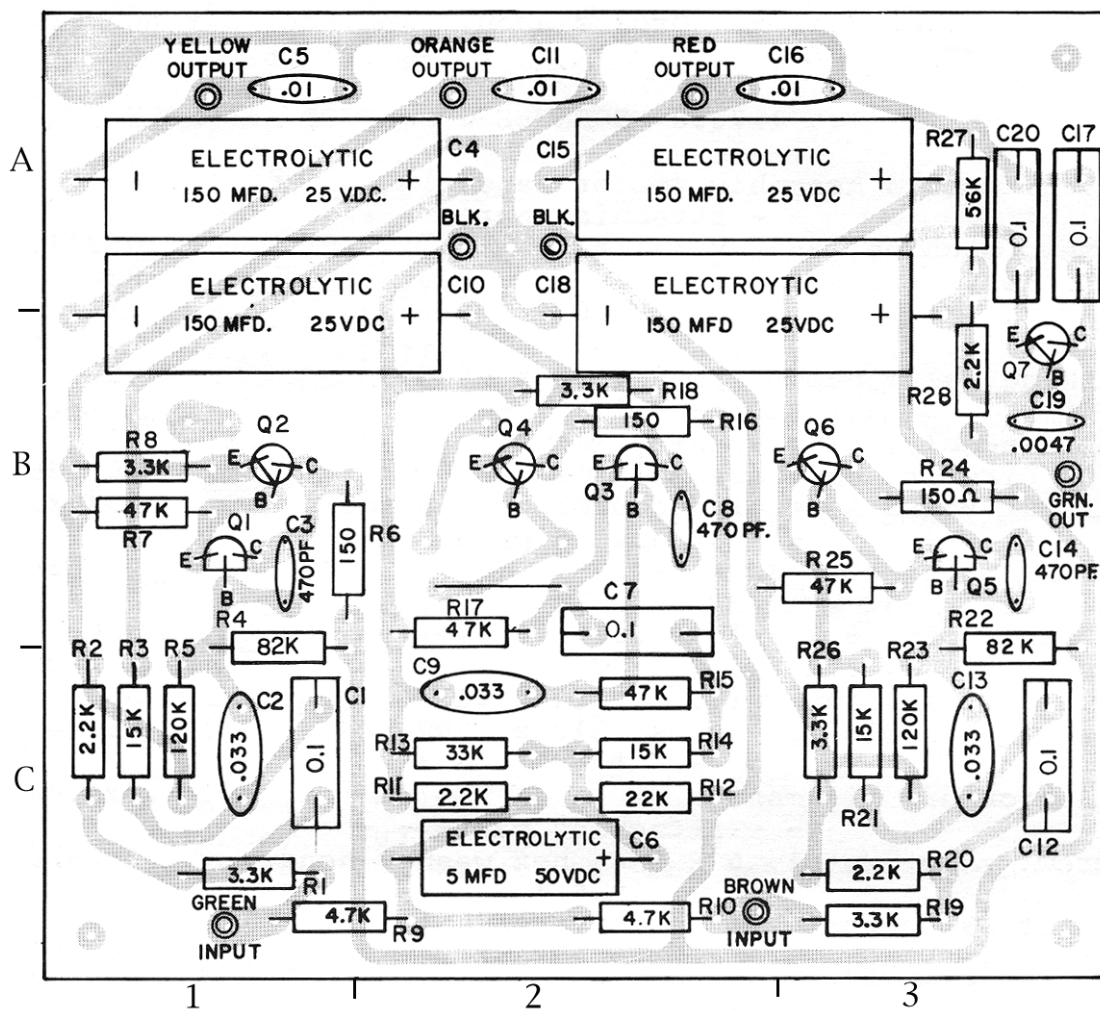
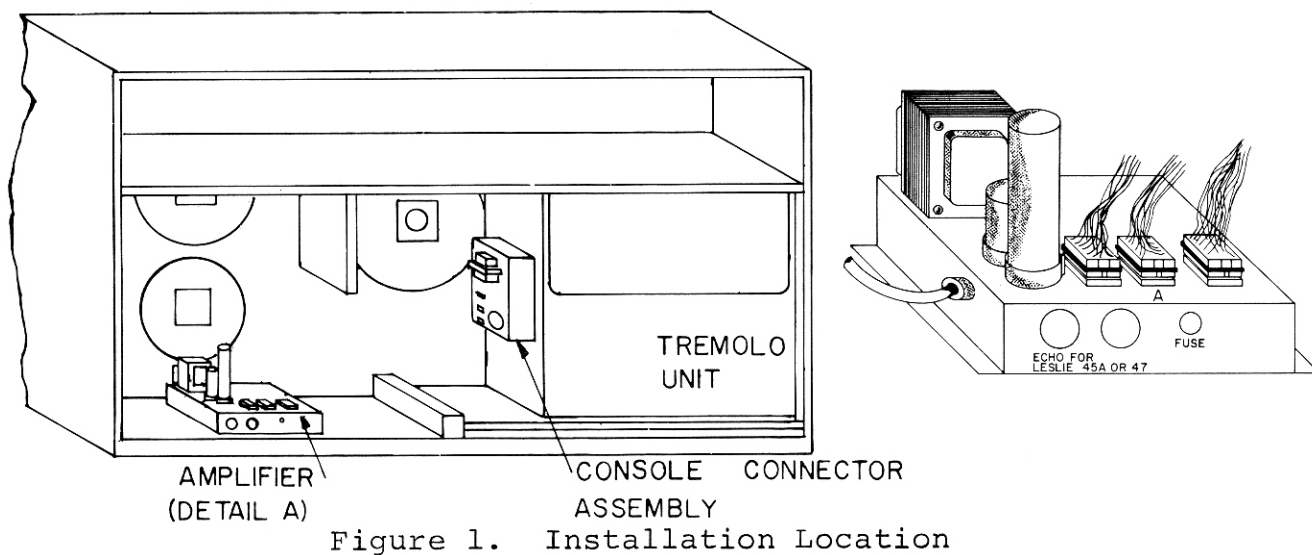


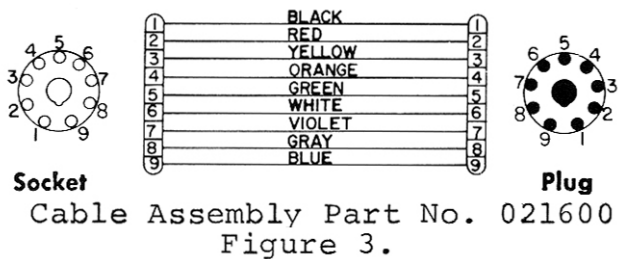
Figure 2. Console Connector Circuit Board Assembly Part No. 069781
Page 3 of 8

PART	LOC	DESCRIPTION	EMI NO.	PART	LOC	DESCRIPTION	EMI NO.
C1	C1	Capacitor, Poly, .1 Mfd, 200V, 20%	022251	R8	B1	Resistor, 3.3K	024141
C2	C1	Capacitor, mylar, .033 Mfd, 100V, 10%	028654	R9	C1	Resistor, 4.7K	028555
C3	B1	capacitor, Disc, 470 Pf, 1KV, 20%	028662	R10	C2	Resistor, 4.7K	028555
C4	A1	Capacitor, Elect., 150 Mfd, 25VDC	031294	R11	C2	Resistor, 2.2K	028571
C5	A1	Capacitor, Disc,.01 Mfd, 1KV, 20%	060467	R12	C2	Resistor, 22K	028530
C6	C2	Capacitor, Elect., 5 Mfd, 50 VDC	028589	R13	C2	Resistor, 33K	026522
C7	B2	Capacitor, Poly,. 1 Mid, 200V, 20%	022251	R14	C2	Resistor, 15K	048157
C8	B2	Capacitor, Disc, 470 Pf, 1KV, 20%	028662	R15	C2	Resistor, 47K	028506
C9	C2	Capacitor, Mylar, .033 Mfd, 100V, 10%	028654	R16	B2	Resistor, 150 ohm	024158
C10	A1	Capacitor, Elect., 150 Mfd, 25VDC	031294	R17	B2	Resistor, 4.7K	028555
C11	A2	capacitor, Disk, .01 Mfd, 1KV, 20%	060467	R18	B2	Resistor, 3.3K	024141
C12	C3	Capacitor, Poly, .1 Mfd, 200V, 20%	022251	R19	C3	Resistor, 3.3K	024141
C13	C3	Capacitor, Mylar, .033 Mfd, 100V, 10%	028654	R20	C3	Resistor, 2. 2K	028571
C14	B3	capacitor, Disc, 470Pf, 1KV, 20%	028662	R21	C3	Resistor, 15K	048157
C15	A3	Capacitor, E1ect., 150 Mfd, 25VDC	031294	R22	B3	Resistor, 82K	027102
C16	A3	Capacitor, Disc, .01 Mfd, 1KV, 20%	060467	R23	C3	Resistor, 120K	027078
C17	A3	Capacitor, Poly, .1 Mfd, 200V, 20%	022251	R24	B3	Resistor, 150 ohm	024158
C18	B3	Capacitor, Elect., 150Mfd, 25VDC	031294	R25	B3	Resistor, 47K	028506
C19	B3	capacitor, Disc., .0047 Mfd, 100V, 10%	028431	R26	C3	Resistor, 3.3K	024141
C20	A3	Capacitor, Poly,. 1 Mfd, 200V, 20%	022251	R27	A3	Resistor, 56K	024133
*R1	C1	Resistor, 3.3K	024141	R28	B3	Resistor, 2.2K	028571
R2	C1	Resistor, 2.2K	028571	Q1	B1	Transistor, MSPS 4382	026237
R3	C1	Resistor, 15K	048157	Q2	B1	Transistor, 2N3859A	061366
R4	B1	Resistor, 82K	027102	Q3	B2	Transistor, MSPS 4382	026237
R5	C1	Resistor, 120K	027078	Q4	B2	Transistor, 2N3859A	061366
R6	B1	Resistor, 150 Ohm	024158	Q5	B3	Transistor, MSPS 4382	026237
R7	B1	Resistor, 47K	028506	Q6	B3	Transistor, 2N3859A	061366
				Q7	B3	Transistor, 2N3859A	061366
						Etched Circuit Board	059759

* All resistors 1/2 watt, 10%

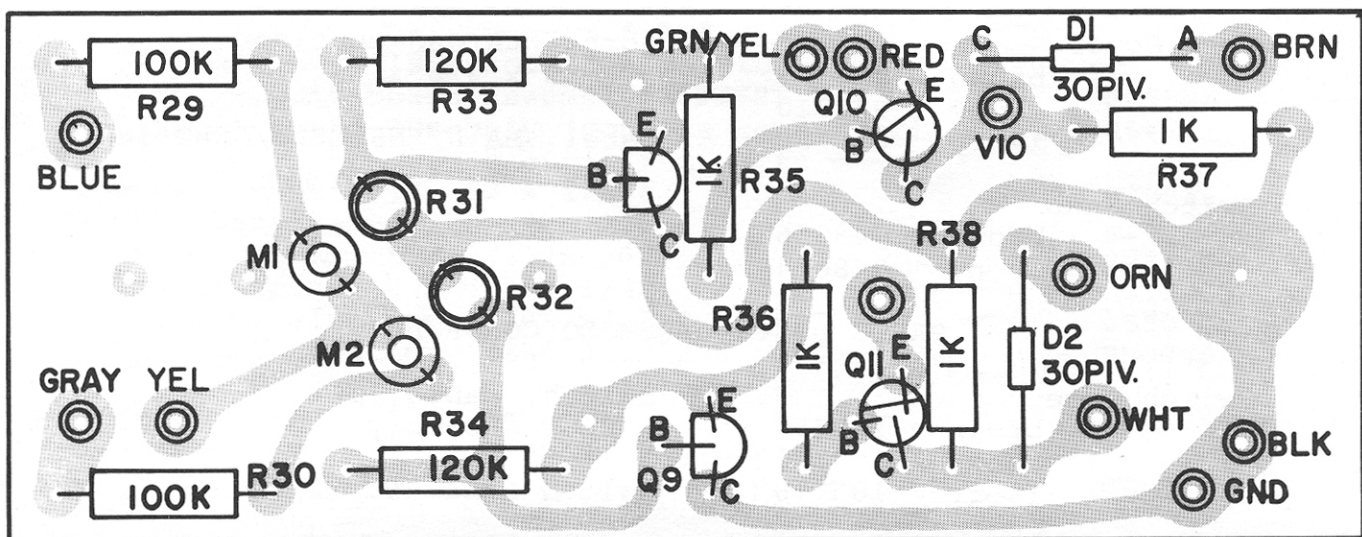
REF DESIG	DESCRIPTION	PART NO.
D1,2	Rectifier, 30PIV, 500MW	041616
M1,2	Neon Lamp - NE2E	063958
R29,30	Resistor, 100K	028498
R31,32	Resistor, LDR,VT-904	117980
R33,34	Resistor, 120K	027078
R35,36	Resistor, 1K	023713
R37,38	Resistor, 1K	023713
Q8,9	Transistor, MSPS 4382	026237
Q10,11	Transistor, 2N3414	030254
	Circuit Board, etched	065292

Note: Resistors 1/2W 10%



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



PARTS LIST: ECHO CONTROL

Switch Case		Switch, Cable, & Plug	
brown	103750	Assembly	042192
ebony	103760		
ivory	103770	Switch Retainer (2)	048116
Case Cover		Screw, thread-cutting,	
brown	048702	6-32 x 3/8	029140
ebony	048710		
ivory	048728	Label, MAIN/ENSEMBLE/ECHO	103670
Switch Knob			
brown	048066		
ebony	048074		

PARTS LIST: TREMOLO CONTROL

Switch Case	Switch,	Cable,	&
brown	103750	Plug Assembly	042150
ebony	103760		
ivory	103770	Switch Retainer (2)	048116
Case Cover		Screw, thread-cutting,	
brown	048702	6-32 x 3/8 (2)	029140
ebony	048710		
ivory	048728	Label, OFF/TREM/ON	103690
Switch Knob		Cork, adhesive	029157
brown	048066		
ebony	048074		

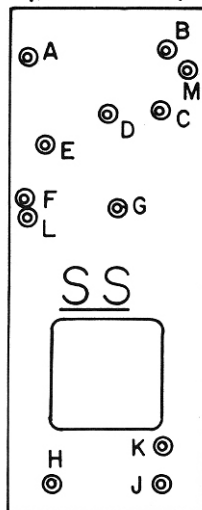
PARTS LIST: MULTI-RANK CONTROL

Switch Case		Switch,Cable, &	
brown	103750	Plug Assembly	069877
ebony	103760		
ivory	103770	Switch Retainer (2)	048116
Case Cover		Screw, thread-cutting,	
brown	048702	6-32 x 3/8 (2)	029140
ebony	048710		
ivory	048728	Label, OFF/MULTI-RANK/ON	103700
Switch Knob	Cork, adhesive	029157	
brown	048066		
ebony	048074		

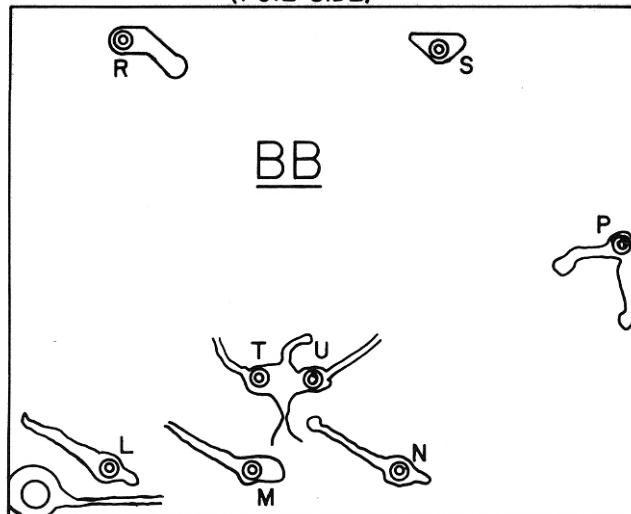
MULTIPLE SPEAKER INSTALLATION

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

BOARD 069778
(PARTS SIDE)



BOARD 069781
(FOIL SIDE)



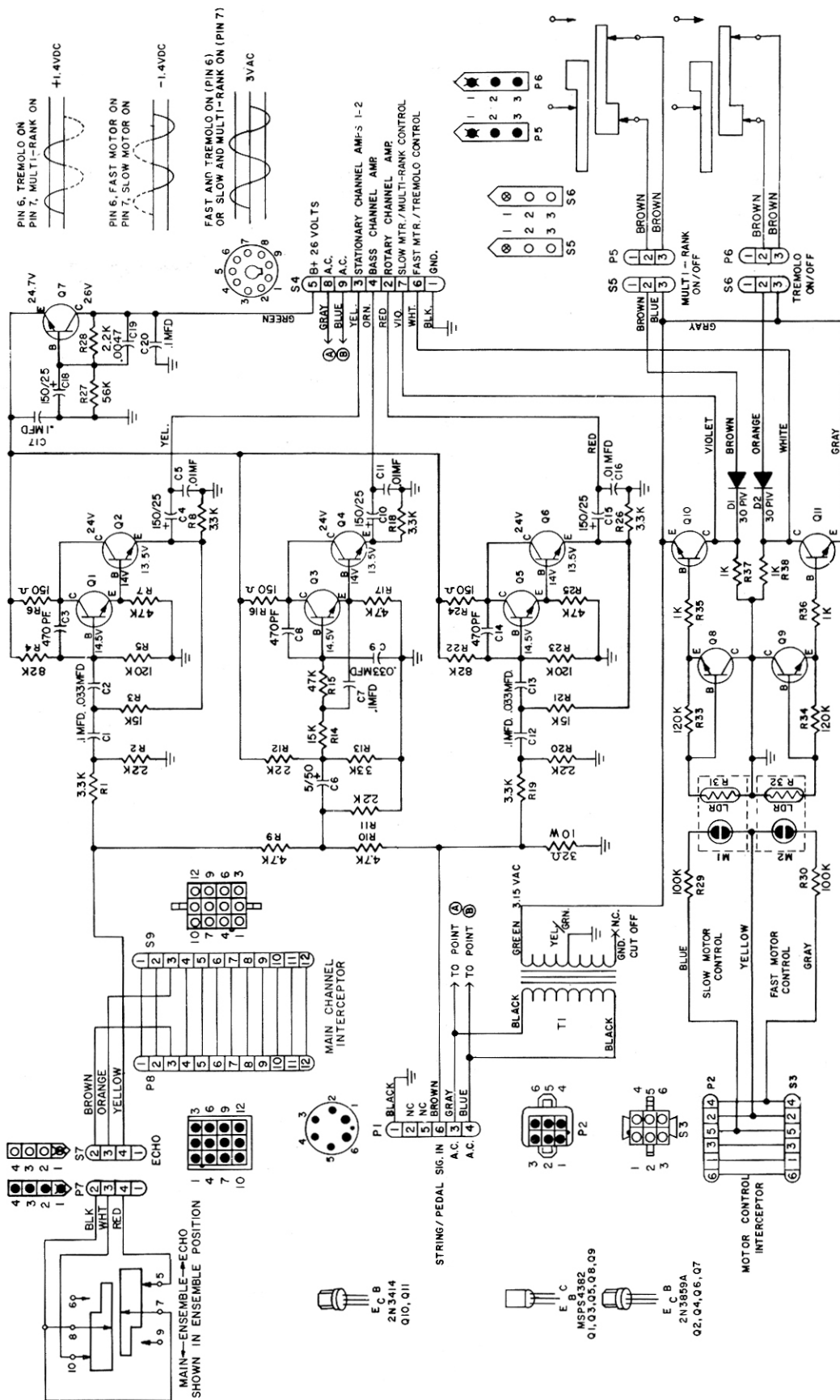
Wiring List*

<u>FROM</u>	<u>COLOR</u>	<u>TO</u>
SS, point A	brown	socket S5, pin 2
B	black	BB, point U
C	white	socket S4, pin 6
D	orange	socket S6, pin 2
E	violet	socket S4, pin 7
F	blue	socket S5, pin 3
F	gray	SS, point G
G	gray	socket S6, pin 3
L	black	1-lug terminal strip, point A**
BB, point L	yellow	socket S4, pin 3
M	orange	4
N	red	2
P	green	5
R	green	2-lug terminal strip, point A**
S	brown	2-1ug terminal strip, point B**
T	black	socket S4, pin 1
Interceptor Assy	blue	SS, point H
	gray	SS, point U
	yellow	SS, point K
Cable & Plug Assy (P1)	black	socket S4, pin 1
	gray	8
	blue	9
	green	BB, point R
	brown	S

* SS = small board (069778)

BB = big board (069781)

** Mounted on chassis



Schematic, Console Connector Assembly 117850 and Controls