

LESLIE CONSOLE CONNECTOR KIT 8050 INSTALLATION INSTRUCTIONS
 FOR USE WITH: HAMMOND N200, N300 Series Organs
 LESLIE Speaker Model 610

For complete speaker information, consult the Model 610 Owner's Manual.

KIT CONTENTS:

KIT CONTENTS:		1 Upper Drum		1 Echo Control	
		Tremolo Control		brown 052035	
1 Console Connector	064485	brown	064550	ebony	052043
1 9 Conductor Cable	021600	ebony	064568	ivory	052050
1 Instructions	064675	ivory	064576		
1 Oiler	053025				
2 Screw, #8 x 1/2"	029132	1 Lower Drum			
6 Screw, #6 x 3/4", Black Oxide	029124	Tremolo Control			
12 Insulated Staple	028464	brown	064584		
1 Connector, Tab, Female	029389	ebony	064592		
1 Adapter	064741	ivory	064600		
1 Adapter	064758				

TO INSTALL:

1. Remove the HAMMOND back cover.
2. Mount the echo and tremolo controls to the underside of the wooden rail located in front of the lower manual. Use wood screws provided.
3. Route the tremolo and echo control cables under the lower manual, through the keyboard shelf, and into the main speaker section of the organ. Fasten cables to the organ interior with the staples provided.
4. Mount the console connector within the organ. Make sure all interceptors and cables will reach. Use the screws provided in the hardware package.
5. Connect the Molex plugs from the tremolo controls to matching colored Molex console connector sockets. (See "A" on Fig. 1.)
6. Connect the echo control plug to the eby socket on the console connector marked: "ECHO CONTROL. " (See "B" on Fig. 1.)
7. At the main speaker signal terminal, cut the signal wire which emanates from the HAMMOND phono jack. (See "C" on Fig. 1.) Do not cut the signal wire leading to the smaller speaker.
8. Strip 1/4" insulation from the cut end of the main speaker signal wire. (See "D" on Fig. 1.) Crimp the female tab connector supplied in the hardware kit to this wire.
9. Connect the BLUE console connector interceptor wire to the main speaker signal wire.(See "E" on Fig. 1.)

10. Connect YELLOW console connector interceptor to the vacant main speaker signal terminal. (See "F" on Fig. 1.)
11. Connect the adapters supplied to the Molex plug and socket of the remaining console connector interceptor. (See "G" and "H", Fig. 1.)
12. Detach the 5 pin HAMMOND plug from the tremolo unit. (See "J" on Fig. 1.) Plug it into the 5 contact adapter socket. (See "G" on Fig. 1.)
13. Insert the 5 pin adapter plug into the vacated socket on the tremolo unit. (See "K" on Fig. 1.)
14. Insert the modified 7 pin console connector plug into the modified 7 contact socket at the rear of the HAMMOND amplifier. (See "L" on Fig. 1.)
15. Attach speaker cable provided to the Model 610 Speaker and the console connector. (See "M" on Fig. 1.)
16. Adjust the volume controls on the Model 610 amplifier according to instructions on page 5. Replace HAMMOND back cover. Installation is now complete.

MODEL 610 CONTROLS

ECHO CONTROL

MAIN Position:	Only HAMMOND internal speakers operate.
ENSEMBLE Position:	HAMMOND and Model 610 Speakers operate together.
ECHO Position:	Only Model 610 Speaker operates.

UPPER DRUM TREMOLO CONTROL

CHORALE:	Upper drum spins at slow speed.
TREMOLO:	Upper drum spins at fast speed.

LOWER DRUM TREMOLO CONTROL

OFF:	Organ signal directed to stationary 6" x 9" speakers in upper 610 cabinet.
ON:	Organ signal directed to 6" x 9" speaker in lower drum.

HAMMOND "LESLIE" TABS

Tabs UP:	Organ signal directed to upper drum of Model 610 Speaker. (When echo control is in ENSEMBLE or ECHO position.)
Tab DOWN:	Depressed tab's organ signal is directed to lower 610 drum. (Providing echo control is in ENSEMBLE Or ECHO position and lower drum tremolo control is switched to ON.)

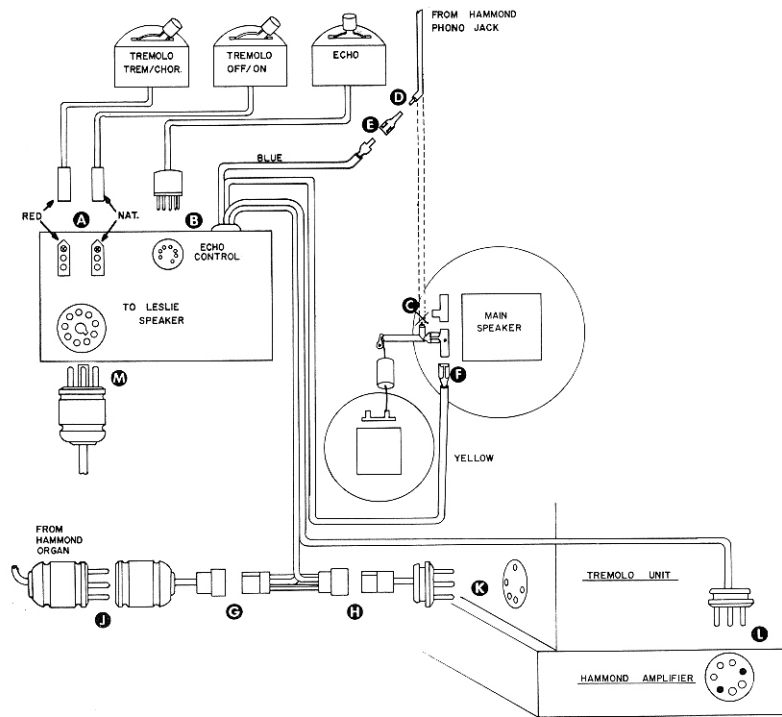


Fig. 1

SCHEMATIC - 8050 CONSOLE CONNECTOR w/CONTROLS AND ADAPTERS

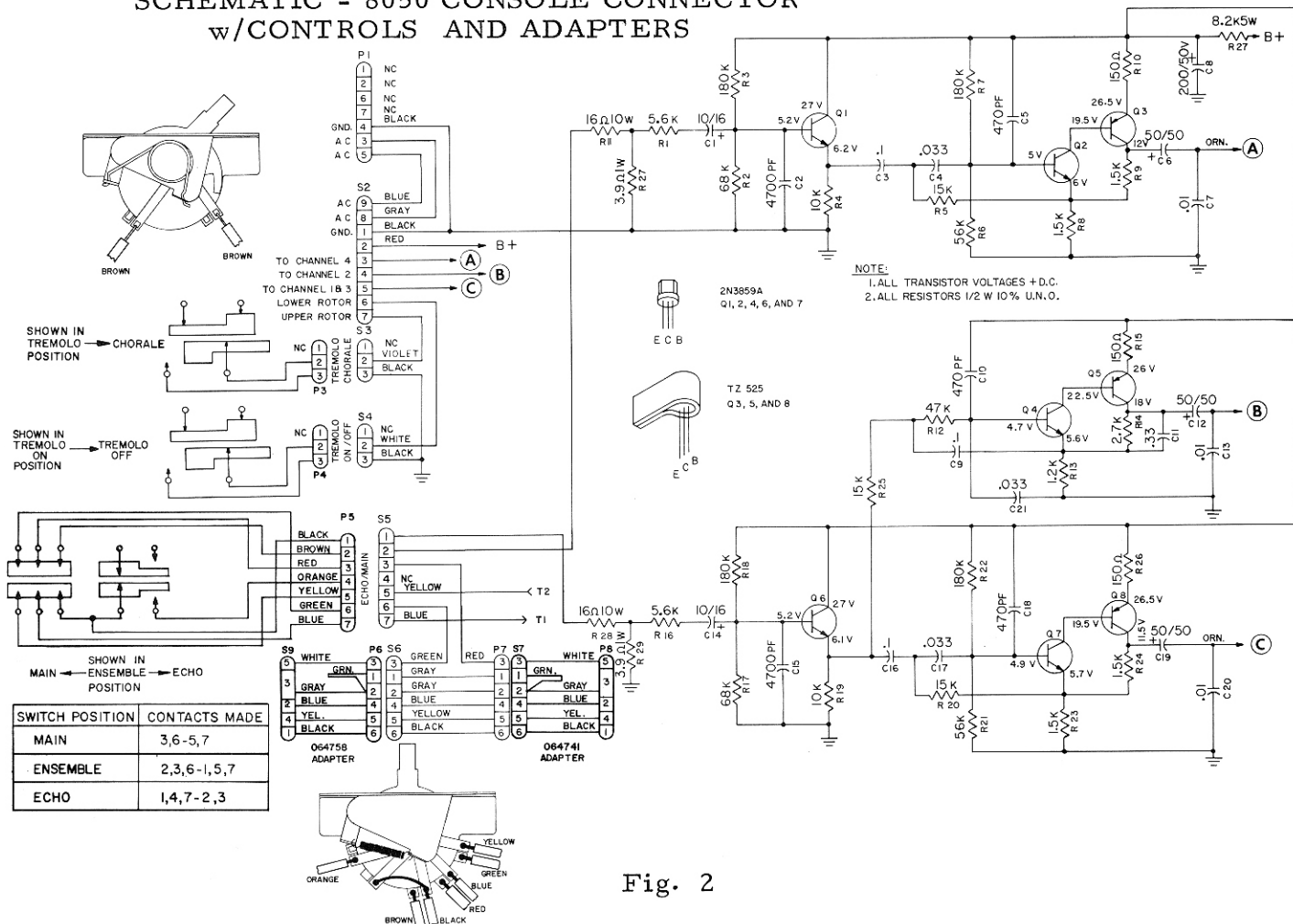


Fig. 2

PARTS SIDE:
064493 CIRCUIT BOARD ASSEMBLY

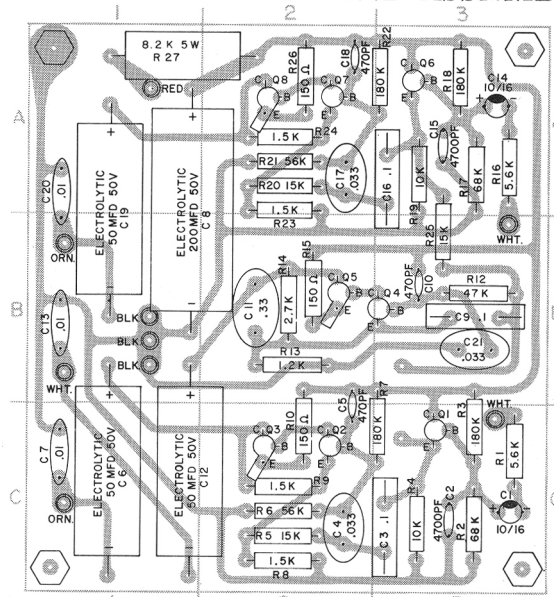


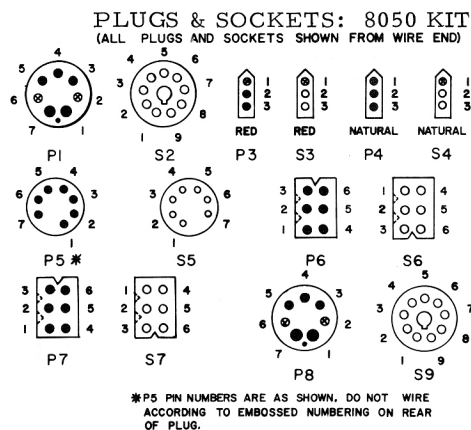
Fig. 3

PARTS LIST: 064493 CIRCUIT BOARD ASSEMBLY

Part No.	Location	Description*	EMI Number
C1	C3	Capacitor, Tantalum, 10MFD @ 16V	041707
C2	C3	Capacitor, Disk, 4700PF @ 100V, 10%	028431
C3	C3	Capacitor, Poly, .1MFD @ 200V, 20%	022251
C4	C2	Capacitor, Mylar, .033MFD @ 75V, 10%	028654
C5	C2	Capacitor, Disc, 470PF @ 1KV, 20%	028662
C6	C1	Capacitor, Elect, .50MFD @ 50V	025262
C7	C1	Capacitor, Disc, .01MFD @ 1KV, 20%	060467
C8	B2	Capacitor, 200MFD @ 50V	020081
C9	B3	Capacitor, Poly, .1MFD @ 200V, 20%	022251
C10	B3	Capacitor, Disc, 470PF @ 100V, 20%	028662
C11	B2	Capacitor, Mylar, .33MFD @ 75V, 10%	028647
C12	C2	Capacitor, Elect, 50MFD @ 50V	025262
C13	B1	Capacitor, Disc, .01MFD @ 1KV, 20%	060467
C14	A3	Capacitor, Tantalum, 10MFD @ 16V	041707
C15	A3	Capacitor, Disc, 4700PF @ 100V, 10%	028431
C16	A3	Capacitor, Poly, .1MFD @ 200V, 20%	022251
C17	A2	Capacitor; Mylar, .033MFD 100V, 10%	028654
C18	A2	Capacitor, Disc, 470PF, 1KV, 20%	028662
C19	B1	Capacitor, 50MFD @ 50V	025262
C20	A1	Capacitor, Disc, .01MFD @ 1KV, 20%	060467
C21	B3	Capacitor, Mylar, .033MFD, 100V, 10%	028654
Q1	C3	Transistor, 2N 3859A -NPN	061366
Q2	C2	Transistor, 2N 3859A -NPN	061366
Q3	C2	Transistor, TZ525- Sprague PNP	033571
Q4	B3	Transistor, 2N3859A -NPN	061366

Q5	B2	Transistor,TZ525- Sprague PNP	033571
Q6	A3	Transistor, 2N3859A -NPN	061366
Q7	A2	Transistor,2N3859A -NPN	061366
Q8	A2	Transistor,TZ525 -Sprague PNP	033571
R1	C3	Resistor, 5.6K	024844
R2	C3	Resistor, 68K	059288
R3	C3	Resistor 180K	059270
R4	C3	Resistor: 10K	028548
R5	C2	Resistor, 15K	048157
R6	C2	Resistor, 56K	024133
R7	B3	Resistor 180K	059270
R8, R9	C2	Resistor, 1.5K	022277
R10	C2	Resistor, 150 ohm	024158
R12	B3	Resistor, 47K	028506
R13	B2	Resistor, 1.2K	018036
R14	B2	Resistor, 2.7K	042549
R15	B2	Resistor, 150 ohm	024158
R16	A3	Resistor, 5.6K	024844
R17	A3	Resistor, 68K	059288
R18	A3	Resistor 180K	059270
R19	A3	Resistor 10K	028548
R20	A2	Resistor: 15K	048157
R21	A2	Resistor, 56K	024133
R22	A3	Resistor, 180K	059270
R23, R24	A2	Resistor, 1.5K	022277
R25	B3	Resistor, 15K	048157
R26	A2	Resistor, 150 ohm	024158
R27	A1	Resistor, 8.2K, 5W, 10%	050484

*All Resistors 1/2 Watt, 10% unless otherwise noted



064485 CONSOLE CONNECTOR

Circuit Board Assembly	064493
R11;R28 Resistor, Wire Wound, 16 ohm, 10W, 10%	029363
R27;R29 Resistor, 3.9 ohm, 1W, 10%	028480
P1 Plug, 7 Pin, Pin 5 #2; #6 Drilled	024752
S2 Socket, 9 Contact Amphenol w/Mounting	061713
S3 Socket Housing, 3 Ckt Molex Red w/Tabs	043265
S3 Female Molex Insert -PC Board	023291
S4 Socket Housing, 3 Ckt Molex Nat. w/Tabs	042077
S4 Female Molex Insert -PC Board	023291
S5 Socket, 7 Contact Eby w/Mounting	025205

INTERCEPTORS

P6 Plug Housing, 6 Ckt Molex, Natural	023259
P6 Male Molex Insert	023309
S6 Socket Housing, 6 Ckt Molex, Natural	023267
S7 Female Molex Insert -Inline	023556
T1 Connector, Tab, Male, Amp	029371
T2 Connector, Tab, Female, Amp	029389

064741 ADAPTER

P8 Plug, 5 Pin w/o Plate	013060
S7 Socket Housing, 6 Ckt Molex, Natural	023267
S7 Female Molex Insert, Inline (6 req'd)	023556

064758 ADAPTER

P9 Plug Housing, 6 Ckt Molex, Natural	023259
P9 Male Molex Insert, Inline (6 req'd)	023309
S6 Socket, 5 Contact	029264

UPPER DRUM

TREMOLO CONTROL

Switch Case	
brown	012260
ebony	012278
ivory	012286
Switch Case Cover	
brown	048702
ebony	048710
ivory	048728
Switch Knob	Switch Knob
brown	048066
ebony	048074
Switch Retainer	Switch Retainer
(2 req'd)	048108
Switch Only	042911
Adhesive Cork	029157
P3-Molex Plug	
Hsing, 3Ckt Red	043323
P4-Male Molex	
Insert (2 req'd)	023309

LOWER DRUM

TREMOLO CONTROL

Switch Case	
brown	048033
ebony	048041
ivory	048058
Switch Case Cover	
brown	048702
ebony	048710
ivory	048728
Switch Knob	
brown	048066
ebony	048074
Switch Retainer	
(2 req'd)	048108
Switch Only	042911
Adhesive Cork	029157
P4-Molex Plug	
Hsing, 3Ckt Nat.	042085
P4-Male Molex	
Insert (2 req'd)	023309

ECHO CONTROL

Switch Case	
brown	029199
ebony	029207
ivory	029215
Switch Case Cover	
brown	048702
ebony	048710
ivory	048728
brown	048066
ebony	048074
(2 req'd)	048116
Switch Only	029173
Adhesive Cork	029157
P5-Plug,	
7 Pin	029223
P5-Cap	029231

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 shown above.

MODEL 610 VOLUME CONTROL ADJUSTMENT: 8050 CONSOLE CONNECTOR KIT

1. Turn off "TIBIA" and "LOWER" volume controls at the Model 610 amplifier.
2. Hold a lower "C " pedal note with all HAMMOND pedal tabs down and the expression pedal fully depressed.
3. Increase gain at the "PEDAL" volume control on the 610 amplifier until distortion is heard. Reduce gain until distortion just disappears.
4. Depress HAMMOND "UPPER MANUAL" tabs, all "PEDAL" tabs and the "ACCENT" tab. HAMMOND "LESLIE" tabs should be up Expression pedal should be fully depressed.
5. Have someone hold a full chord on both manuals as well as a pedal note. This combination should encompass the entire frequency range of the organ.
6. Increase gain at "TIBIA" volume control on the 610 amplifier until distortion is heard. Reduce gain until distortion just disappears.
7. With HAMMOND "UPPER MANUAL, " "ACCENT" and "PEDAL" tabs down, depress the HAMMOND "LESLIE" tabs. Expression pedal should be fully depressed.
8. Have someone hold a full chord on both manuals as well as a pedal note. This combination should encompass the entire frequency range of the organ.
9. Increase gain at "LOWER" volume control on the 610 amplifier until distortion is heard. Reduce gain until distortion just disappears.