LESLIE CONSOLE CONNECTOR KIT 8040 INSTALLATION INSTRUCTIONS

FOR USE WITH: HAMMOND R- Series
LESLIE Speaker Model 610

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

KIT CONTENTS:

1 Console Connector	064485	1 Upper Drum Tremolo Control	1 Echo Control
1 9 Conductor Cable	021600	brown 064550	brown 052035
1 Instructions	064659	ebony 064568	ebony 052043
1 Oiler	053025	ivory 064576	ivory 052050
2 Screw, #8 x 1/2"	029132	1 Lower Drum	
6 Screw, #6 x 3/4", BlackOxide	029124	TremoloControl	
12 Insulated Staple	028464	brown 064584	
		ebony 064592	
		ivory 064600	

TO INSTALL:

1. Remove the HAMMOND back cover. Open the hinged 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 amplifier section of the HAMMOND. Fasten in place with staples provided.

4. Mount the console connector as shown in Figure 1. Use the screws provided in the hardware package.

5. Connect the Molex plugs from the tremolo controls to matching colored console connector sockets. (See A on Fig. 1.)

6. Connect the echo control plug to the 7 contact console connector socket. (See B on Fig. 1.)

7. Detach the cream colored signal wire from the main HAMMOND Speaker. (See Fig. 1.) Attach it to male spade lug of the BLUE console connector wire. (See "C" on Fig. 1.)

8. Attach the YELLOW console connector wire to the MAIN Speaker terminal vacated in step 7. (See "D" on Fig. 1.)

9. Disconnect the WHITE Molex plug and socket adjacent to the LESLIE Tremolo unit within the organ. (See "E" and "F" on Fig. 1.)

10. Connect the WHITE Molex socket of the console connector interceptor to the WHITE Molex plug detached in step 9. (See "E" on Fig. 1.)

11. Connect the WHITE Molex plug of the console connector interceptor to the WHITE Molex socket detached in step 9. (See "F" on Fig. 1.)

12. Connect the modified 7 pin "console connector plug to the modified socket on the HAMMOND amplifier. (See "G" on Fig. 1.)

13. Connect the speaker cable to the LESLIE SPEAKER socket on the console connector. Attach the other end to the Model 610 Speaker.

14. Adjust Model 610 volume controls on its amplifier. Adjust each channel separately. Set one full group of HAMMOND drawbars at the seventh position and depress the expression pedal completely. Have someone hold a chord encompassing the entire frequency range of the channel being adjusted. See MODEL 610 CONTROLS for signal switching information.

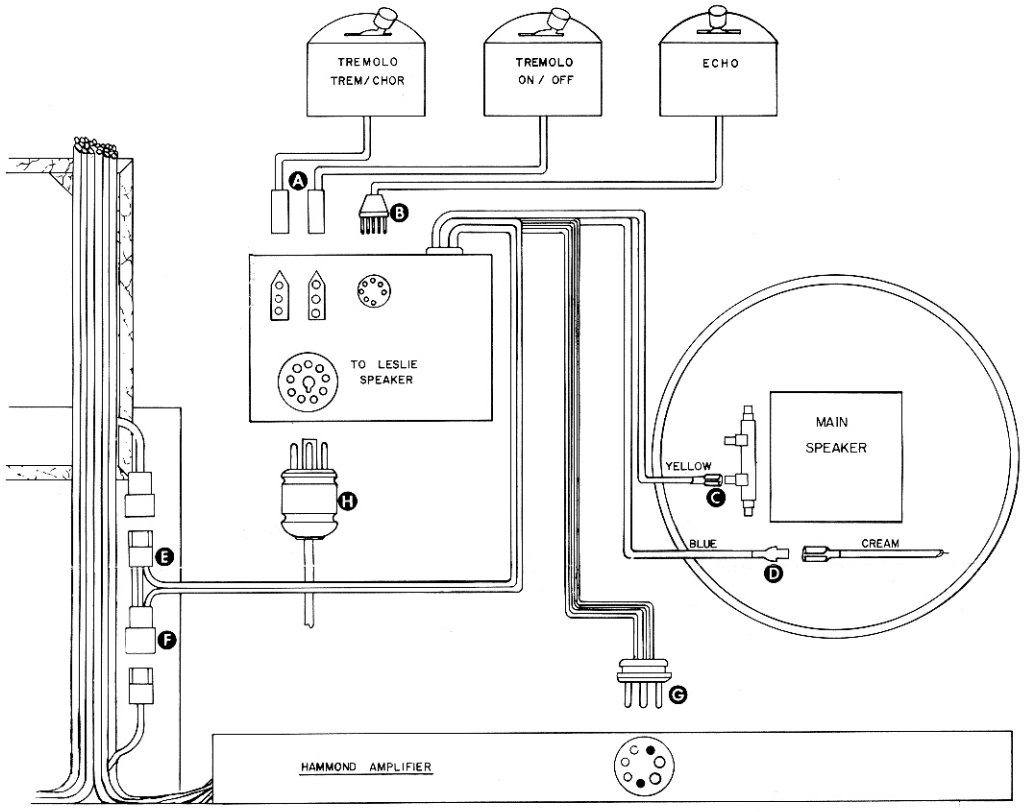
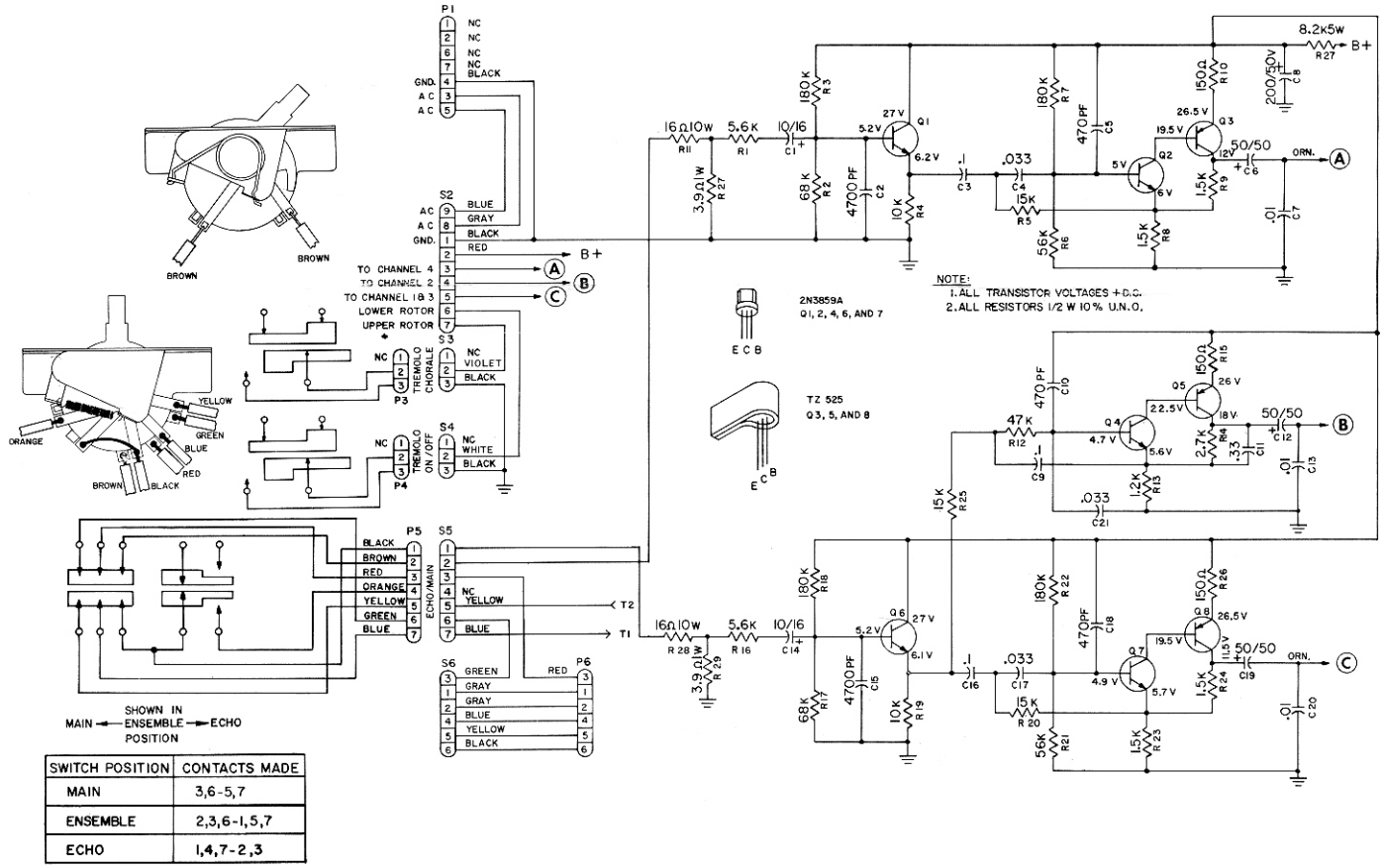


Fig. 1



SWITCH POSITION	CONTACTS MADE
MAIN	3,6-5,7
ENSEMBLE	2,3,6-1,5,7
ECHO	1,4,7-2,3

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.

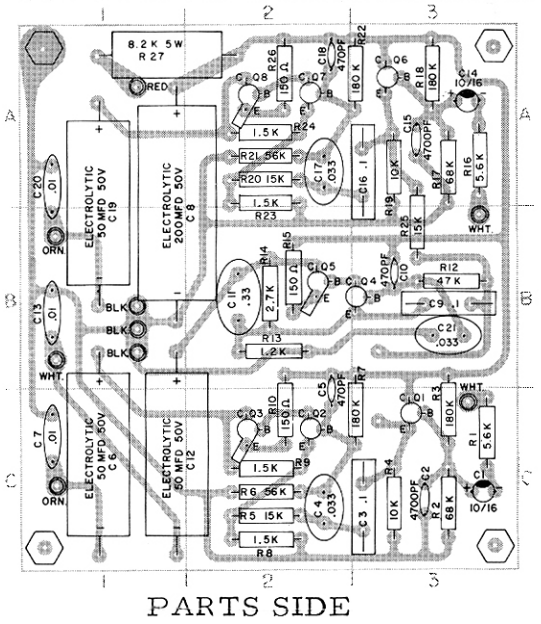
HAMMOND "LESLIE" TABS (except "LESLIE CHORUS")

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.)

HAMMOND "LESLIE CHORUS" TAB

Depressing this tab switches Some lower 610 drum organ signal to the upper 610 drum. Depressing this tab when no other HAMMOND "LESLIE" tabs are down will have no effect.

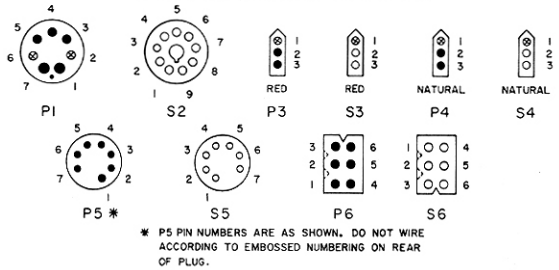
064493 CIRCUIT BOARD ASSEMBLY



PARTS SIDE

PLUGS & SOCKETS: 8040 KIT

(ALL PLUGS AND SOCKETS SHOWN FROM WIRE END.)



* P5 PIN NUMBERS ARE AS SHOWN. DO NOT WIRE ACCORDING TO EMBOSSED NUMBERING ON REAR OF PLUG.

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	Cap<lcitor, Disc,470PF @ lKV, 20%.	028662
C6	Cl	Capacitor, Elect, .50MFD @ 50V	025262
C7	Cl	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, 5MFD @ 50V	025262
C13	B1	Capacitor, Disc, .01MFD @ 1KV, 20%	060467
C14	A3	Capacitor, Tantalum, 10MFD @ l6V	041707
CI5	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	Al	Capacitor, Disc, .01MfD @ 1KV, 20%	060467
C21	83	Capacitor, My1ar, .033MFD,100V, 10%	028654
Q1	C3	Transistor, 2N 3859A - NPN	061366
Q2	C2	Transistor, 2N 3859A - NPN	061366
Q3	C2	Transistor, TZ 525 - Sprague PNP	033571

Part No,	Location	Description	EMI Number
Q4	B3	Transistor, 2N 3859A - NPN	061366
Q5	B2	Transistor, TZ 525 - Sprague PNP	033571
Q6	A3	Transistor, 2N 3859A - NPN	061366
Q7	A2	Transistor, 2N 3859A - NPN	061366
Q8	A2	Transistor, TZ 525 - Sprague PNP	033571
R1	C3	Resistor, 5.6K	024844
R2	C3	Resistor, 68K	059288
R3	C3	Resistor, 180K	059270
R4	C3	Resistor, 10K	028548
RS	C2	Resistor, 15K	048157
R6	C2	Resistor, 56K	024133
R7	B3	Resistor, 180K	059270
R8, R9	C2	Resistor, 1.5K	022277
R10	C2	Redstor, 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
R 27; R 29	Resistor, 3. 9 ohm, 1 W, 10%	028480
P1	Plug, 7 Pin, Pins #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 Mo1ex, Natural	023259
P6	Male Mo1ex Insert	023309
S6	Socket Housing, 6 Ckt Mo1ex, Natural	023267
S6	Female Mo1ex Insert - Inline	023556
T1	Connector, Tab, Male, Amp	029371
T2	Connector, Tab, Female, Amp	029389

UPPER DRUM TREMOLO CONTROL		LOWER DRUM TREMOLO CONTROL		ECHO CONTROL	
Switch Case		Switch Case		Switch Case	
brown	012260	brown	048033	brown	029199
ebony	012278	ebony	048041	ebony	029207
ivory	012286	ivory	048058	ivory	029215
Switch Case Cover		Switch Case Cover		Switch Case Cover	
brown	048702	brown	048702	brown	048702
ebony	048710	ebony	048710	ebony	048710
ivory	048728	ivory	048728	ivory	048728
Switch Knob		Switch Knob		Switch Knob	
brown	048066	brown	048066	brown	048066
ebony	048074	ebony	048074	ebony	048074
Switch Retainer		Switch Retainer		Switch Retainer	
(2 req'd)	048108	(2 req'd)	048108	(2 req'd)	048116
Switch Only	042911	Switch Only	042911	Switch Only	029173
Adhesive Cork	029157	Adhesive Cork	029157	Adhesive Cork	029157
P3-Molex Plug		P4-Mo1ex Plug		P5-Plug,	
Hsing, 3Ckt Red	043323	Hsing, 3Ckt Nat.	042085	7 Pin	029223
P4-Ma1e Molex		P4-Ma1e Molex		P5-Cap	029231
Insert (2 req'd)	023309	Insert (2 req'd)	023309		

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.