

CONSOLE CONNECTOR KIT 8035 INSTALLATION INSTRUCTIONS
FOR USE WITH: LESLIE Speaker Model 610 w/Hammond Model 10 Speaker
HAMMOND H-100 Series Organs

MULTIPLE SPEAKER INSTALLATION: For complete information, see service manual for the LESLIE Speaker to be added.

KIT CONTENTS:

Console Connector	059577	1 Echo Control	1 Lower Rotor Control
9 Conductor Cable	021600	brown 024240	brown 059220
Instructions	059551	ebony 024232	ebony 059238
Oiler	053025	ivory 024224	ivory 059246
Screw, 8 x 1/2"	029132		
Screw, 6 x 1/2"	029124		1 Upper Rotor Control
Insulated Staples	028464		brown 059171
ebony	059189		ivory 059197

TO INSTALL:

1. Remove HAMMOND back panel.
2. Mount console connector chassis to underside of the middle shelf above the HAMMOND amplifier. Use sheet metal screws provided.
3. Mount the lower rotor, upper rotor and echo control switches to the wooden rail in front of the lower manual. Use the black oxide screws provided.
4. Remove the knee plate found beneath the lower manual. Then route the control cables through the keyboard shelf and into the amplifier section of the console. Use staples provided to fasten cables in place.
5. Insert lower rotor, upper rotor and echo control plugs into the matching console connector sockets. (See "A", "B" and "C" Fig. 1.)
6. Insert 5 pin console connector plug into the tone cabinet socket at left rear corner of the HAMMOND amplifier. (See "D" on Fig. 1.)
7. Push the switch located next to the tone cabinet socket to "TONE CAB" position. (See "E" on Fig. 1.)
8. Attach the HAMMOND speaker cable to the model 10 and the 7 contact socket on the console connector.(See "F" on Fig.1.)
9. Connect speaker cable to the 9 contact socket on the console connector chassis. (See "G" on Fig. 1.) Attach the other end of this cable to the 9 pin plug on the LESLIE 610 speaker amplifier.

10. Switch lower rotor and upper rotor controls to TREMOLO ON and TREMOLO positions, respectively. Then adjust the volume controls on the LESLIE to match the volume of the HAMMOND without distorting. Adjust model 10 speaker volume according to its volume adjustment instructions. Installation is now complete.

IMPORTANT NOTE:

In addition to the LESLIE control switching described on page 3, the organ tremolo tabs must be in the UP position before organ signal will sound through the upper 610 rotor. Pressing one of these tabs DOWN routes the organ's output from the related manual to the lower 610 rotor. This will enable the player to achieve different kinds of sound from each manual.

LESLIE CONTROL FUNCTIONS UPPER ROTOR CONTROL:

Upper OFF: Channels 1 and 3 grounded --no signal.
Upper Rotor spinning at fast speed.

Chorale: Channels 1 and 3 directed to the two 6" x 9" speakers in the Upper Rotor. Rotor spinning at slow speed.

Tremolo: Channels 1 and 3 directed to the two 6" x 9" speakers in the Upper Rotor. Rotor spinning at fast speed.

LOWER ROTOR CONTROL:

Lower OFF: Channel 4 grounded --no signal.
Lower Rotor spinning at tremolo speed.

Tremolo OFF: Channel 4 directed to stationary 6" x 9" speaker in upper Model 610 cabinet. Lower Rotor spinning at tremolo speed.

Tremolo ON: Channel 4 directed to 6" x 9" speaker in Lower Rotor. Rotor spinning at tremolo speed.

NOTE: If you desire to play only bass tones through the LESLIE 610 Speaker, the Upper Rotor control must also be switched to the Upper OFF position.

PARTS LIST: 059692 CIRCUIT BOARD ASSEMBLY

Part Number	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	C 1	Capacitor, Disc, .01MFD @1KV, 20%	060467
C8	B2	Capacitor, 200MFD @ 50V	020081
C9	B3	Capacitor, Poly, 1MFD @ 200V, 20%	022251
C 10	B3	Capacitor, Disc, 470PF @ 100V, 20%	028662
C 11	B2	Capacitor, Mylar, .33MFD @ 75V, 10%	028647
C12	C2	Capacitor, Elect, 50MFD @50V	025262

C 13	B1	Capacitor, Disc, .01MFD @ 1KV, 20%	060467
C 14	A3	Capacitor, Tantalum, 10MFD @ 16V	041707
C15	A3	Capacitor, Disc, 4700PF @100V, 10%	028431
C 16	A3	Capacitor, Poly, .1MFD @ 200V, 20%	022251
C17	A2	Capacitor, Mylar, .033MFD 100V, 10%	028654
C18	A2	Capacitor, Disc, 470PF, 1KV, 20%	028662
C 19	B1	Capacitor, 50MFD @ 50V	025262
C20	A1	Capacitor, Disc, .01MFD @1KV, 20%	060467
C21	B3	Capacitor, Mylar, .033MFD, 100V, 10%	028654
Q1	C3	Transistor, 2N3859A -NPN	061366
Q2	C2	Transistor, 2N3859A -NPN	061366
Q3	C2	Transistor, T2525 -Sprague PNP	033571
Q4	B3	Transistor, 2N3859A -NPN	061366
Q5	B2	Transistor, T2525 -Sprague PNP	033571
Q6	A3	Transistor, 2N3859A -NPN	061366
Q7	A2	Transistor, 2N3859A -NPN	061366
Q8	A2	Transistor, T2525 -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
R 7	B3	Resistor, 180K	059270
R8, R9	C2	Resistor, 1.5K	022277
R10	C2	Resistor, 150 ohm	024158
R 11	B3	Resistor, 15K	048157
R 12	B3	Resistor, 47K	028506
R13	B2	Resistor, 1.2K	018036
R 14	B2	Resistor, 2.7K	042549
R 15	B2	Resistor, 150 ohm	024158
R16	A3	Resistor, 5.6K	024844
R 17	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

INSTALLATION: 8035 KIT

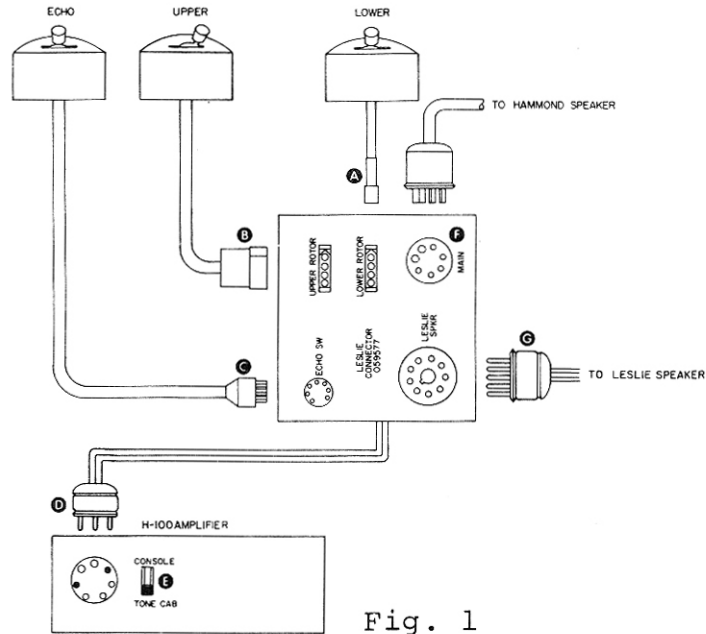


Fig. 1

SCHEMATIC: 8035 CONSOLE CONNECTOR w/CONTROLS

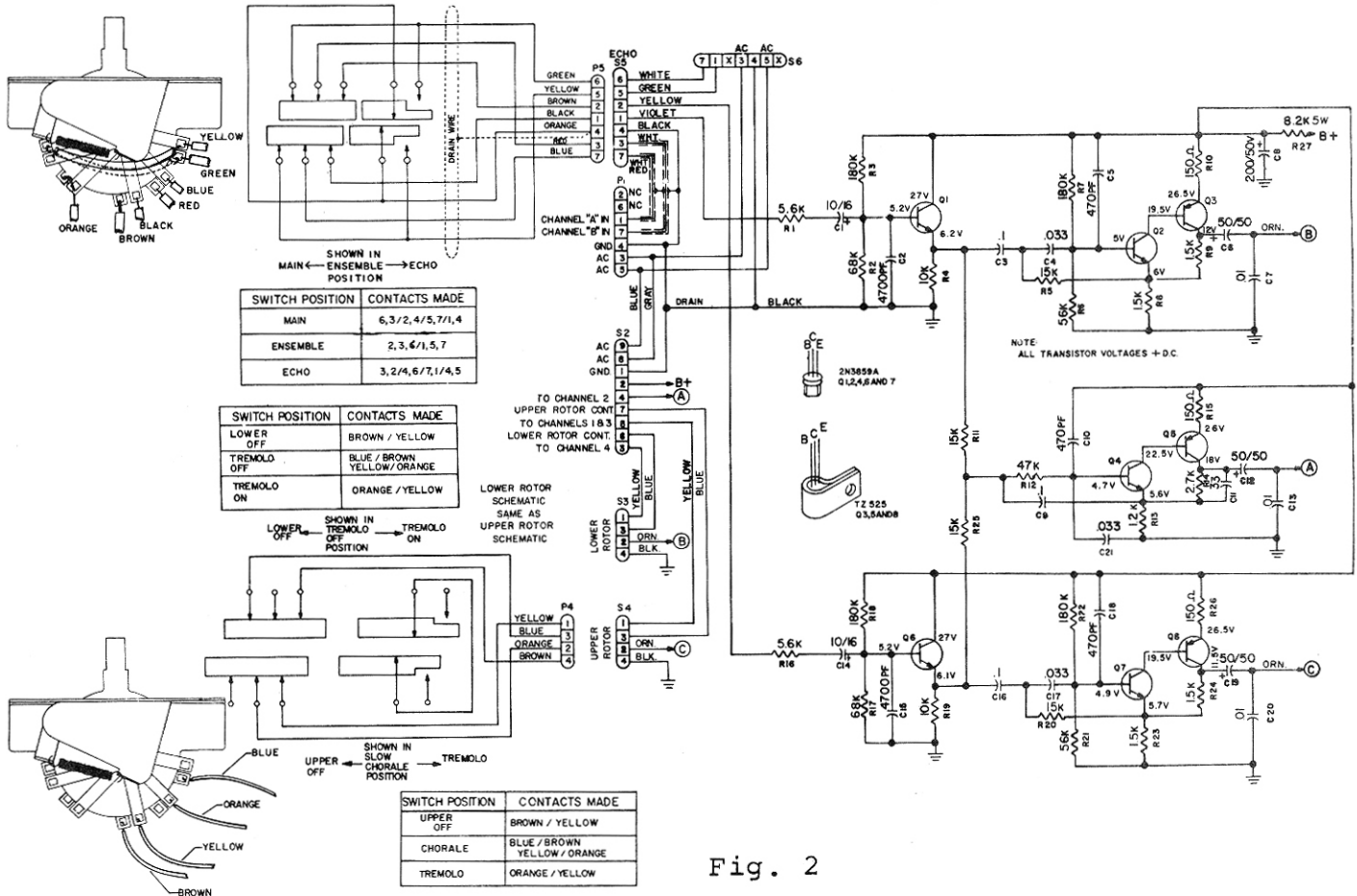


Fig. 2

PARTS LIST: LOWER ROTOR CONTROL

Lower Rotor Switch Case

brown	059113
ebony	059121
ivory	059139

Switch Case Cover

brown	048702
ebony	048710
ivory	048728

Switch Knob

brown	048066
ebony	048074

Switch Retainer (2)	048116
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Switch Only	029173
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Adhesive Cork	029157
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P3 Plug Housing

4 ckt Molex -red	059296
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P3 Male Molex Insert	023309
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PARTS LIST: UPPER ROTOR CONTROL

Upper Rotor Switch Case

brown	059147
ebony	059155
ivory	059163

Switch Case Cover

brown	048702
ebony	048710
ivory	048728

Switch Knob

brown	048066
ebony	048074

Switch Retainer (2)	048116
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Switch Only	029173
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Adhesive Cork	029157
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P4 Plug Housing,	042101
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4 ckt Molex -natural	
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P4 Male Molex Insert	023309
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PARTS LIST: ECHO CONTROL

Echo Switch Case

brown	029199
ebony	029207
ivory	029215

Switch Case Cover

brown	048702
ebony	028710
ivory	048728

Switch Knob

brown	048066
ebony	028074

Switch Retainer (2 Req'd.)	048116
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Switch Only	029173
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Adhesive Cork	029157
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P5 Plug, 7 Pin Miniature	029223
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P5 Cap	029231
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Screw, TCF 6-32 x 3/8" RH	029140
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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 listed.