



CONSOLE CONNECTOR KIT 6122

INSTALLATION INSTRUCTIONS

FOR USE WITH: Leslie 122 tone cabinet

Any single channel organ with "G-G" terminals or self-contained organs, such as Hammond models A, B, C, D, E, M, BC, BV, CV, B2, B3, C2, C3, M2, M3, RT, RT2, RT3, A100, D100, E100, E300, L100, L200, M100, T100, T200, T300, and T400.

INTRODUCTION

This kit contains a console connector assembly, driver transformer assembly, console cable, and control center along with appropriate mounting hardware. When properly installed to the organ and connected to the Leslie speaker, it provides switching for Leslie Fast or Slow rotor speeds, switching between Leslie tone cabinet and Hammond tone cabinet or between Leslie tone cabinet and self-contained organ speakers, or in Mix position allows both sound sources to be heard. It will also provide B+, if necessary, to older Hammond organs that use a tone cabinet for the pre-amp supply voltage.

KIT CONTENT

Console Connector Assembly	009-057327	Control Center Assembly	008-057321
Transformer Assembly	003-057320	Hardware Package	089-057336
Console Cable Assembly	011-057333	Installation Instructions	047-057326

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 person authorized by the dealer or factory to perform such work.

INSTALLATION

CAUTION: DISCONNECT ORGAN POWER BEFORE PROCEEDING.

CONTROL CENTER MOUNTING

1. Select a location under the keyboard shelf where the control is to be mounted, either left or right, as the organist prefers. Keep in mind that the cable from the control must pass into the interior of the organ. The mounting bracket may be reversed, if desired, by removing the four corner screws, turning it around, and re-fastening it to the plastic case with the four corner screws. This enables the control to be mounted to the front key strip if the keyboard shelf is metal, or the keyboard shelf if it is made of wood. See Figure 1 and Figure 2.
2. Select a hole to pass the control cable into the interior of the organ. If none is available, use a hole saw to make a 1" diameter hole or cut a notch in the rear of the organ shelf. Dress the control cable neatly under the keyboard shelf and secure it with the cable clamps provided.

CAUTION

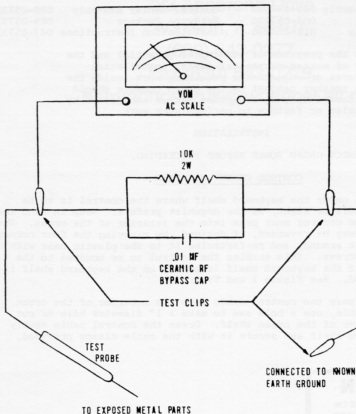
SEE SAFETY NOTICE ON
INSIDE COVER SHEET

SAFETY NOTICE

Great care has been taken in the design and manufacture of this product to assure that no shock hazard exists on any exposed metal parts. Internal service operations can expose the technician to hazardous line voltages and accidentally cause these voltages to appear on exposed metal parts during repair or reassembly of product components. To prevent this, work on these products should only be performed by those who are thoroughly familiar with the precautions necessary when working on this type of equipment.

To protect the user, it is required that all enclosure parts and safety interlocks be restored to their original condition and the following tests be performed before returning the product to the owner after any service operation.

Plug the AC line cord directly into a line voltage AC receptacle (do not use an isolation transformer for this test) and turn the product on. Connect the network (as shown below) in series with all exposed metal parts and a known earth ground such as a water pipe or conduit. Use an AC VOM of 5,000 ohms per volt or higher sensitivity to measure the voltage drop across the network. Move the network connection to each exposed metal part (metal chassis, screw heads, knobs and control shafts, escutcheon, etc.) and measure the voltage drop across the network. Reverse the line plug and repeat the measurements. Any reading of 4 volts RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the product to the user.



CONSOLE CONNECTOR MOUNTING

Mount the console connector chassis and transformer assembly inside the organ within reach of the organ amplifier using #8 x 1/2" sheet metal screws provided. Install the transformer assembly cable, console cable, and control center cable plugs to the appropriate sockets on the console connector printed wiring board.

WIRING

- A. Locate the 117V AC wires AFTER the organ power On/Off switch. Connect the Gray wire to one of these wires and the Blue wire to the other wire. The input terminals of the power transformer may be used if desired. If the organ has a switched AC socket, a plug may be attached to the Gray and Blue wires and conveniently plugged into this socket.
- B. For organs with "G-G" terminals:
1. Remove the wires from the "G-G" terminals. Connect one of them to one of the Orange wires from the console cable and connect the other one to the other Orange wire using the wire nuts provided.
 2. Connect the Black wire from the console cable to one of the vacated "G" terminals and the Red wire from the console cable to the other vacated "G" terminal.
 3. Connect the Brown wire from the console cable to the ground terminal. Do not remove existing ground wire.
- NOTE: If this Leslie installation is replacing an existing Hammond tone cabinet that provides B+ to the organ pre-amplifier, remove the wire from the B+ terminal and connect the White wire from the console connector to this B+ terminal.
- Otherwise, tape up or clip the White wire, as it is not used.
4. Tape up or clip the Yellow wire from the console cable, as it is not used.
 5. Disconnect (by clipping or unsoldering) wire jumpers #1 and #2 on the printed circuit board.
- C. For organs with self-contained amplifiers and speakers:
1. Cut the signal wire between the organ amplifier (after the phone jack if one is used) and the speaker (or crossover if one is used).
 2. Connect the Red wire from the console cable to the wire coming from the organ amplifier (after phone jack) using a wire nut provided.
 3. Connect the Yellow wire from the console cable to the wire going to the speaker (or crossover if one is used) using a wire nut provided.
 4. Connect the Black and Brown wires from the console cable to the amplifier, crossover, or speaker ground. Do not remove existing ground wire.
 5. Tape up or clip the White and two Orange wires, as they are not used.

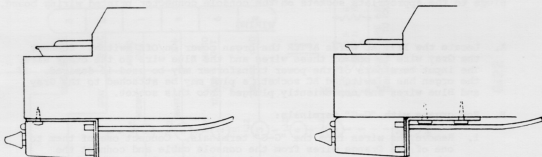


Figure 1

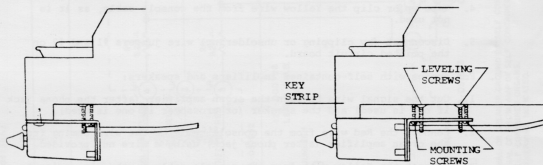
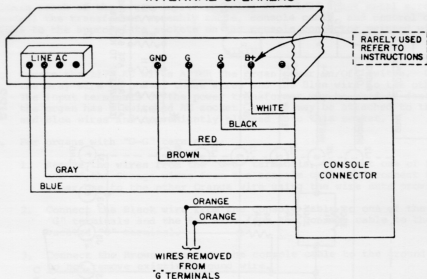


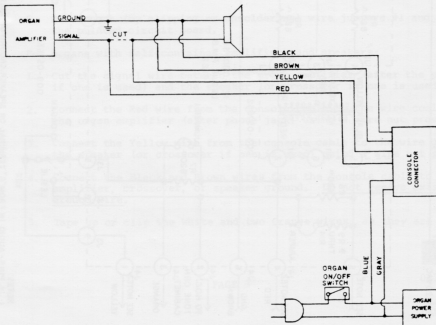
Figure 2

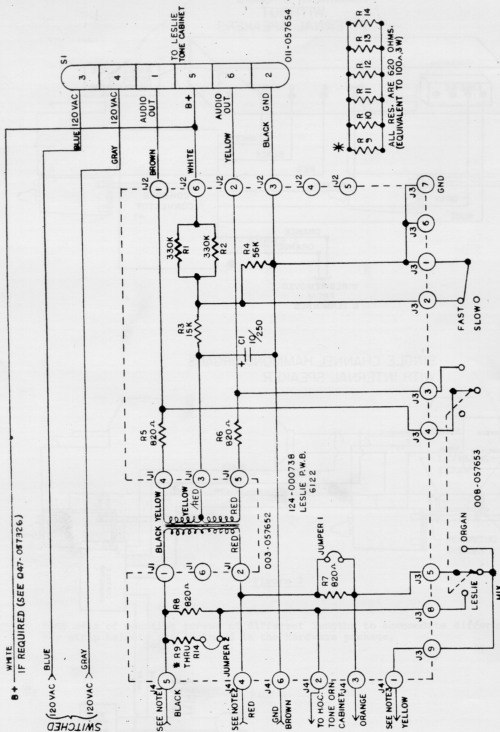
Four sets of mounting screws of different lengths to accommodate different key strip heights are included in the hardware package.

HAMMOND ORGANS WITHOUT INTERNAL SPEAKERS



SINGLE CHANNEL HAMMOND ORGANS WITH INTERNAL SPEAKER





- NOTES:
1. J4, PINS-AUDIO IN FROM "G" TERMINAL OR SPEAKER GROUND OF SELF CONTAINED ORGANS.
 2. J4, PIN4-AUDIO IN FROM "G" TERMINAL OR SPEAKER GROUND OF SELF CONTAINED ORGANS.
 3. J4, PIN1-SPEAKER RETURN FROM SELF CONTAINED ORGANS.
 4. ALL RESISTORS $\frac{1}{2}$ W 5% UNLESS OTHERWISE INDICATED.

6122

Schematic, Console Connector with Transformer Assembly and Control Center

FINAL CHECK

Check all connections for proper hookup. Dress wires neatly and secure with cable clamps and/or cable ties. Connect Leslie speaker cable to console connector socket and to tone cabinet. Turn on organ power and adjust volume of tone cabinet to desired level according to instructions in tone cabinet owner's manual. Check that control center switches provide proper response in tone cabinet.

This completes the installation.

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.

PARTS LIST

TRANSFORMER ASSEMBLY 033-057320

CONSOLE CABLE 011-057333

CONSOLE CONNECTOR ASSEMBLY 009-057327

Circuit Board Assembly	124-000738
Chassis	035-057325
Standoffs	044-050580
6-Pin Socket	504-030775

CONTROL CENTER ASSEMBLY 008-057321

Cable Mounting Plate	035-057338
Angle Bracket Mounting Plate	035-057324
Case - Silk Screened	541-141114-001
Knob - White	531-137291
Switch - Lever - 3 Position	508-137304

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