

# CONSOLE CONNECTOR KIT 1174 INSTALLATION INSTRUCTIONS

FOR USE WITH: All Leslie 11-pin Tone Cabinets (up to four channels)

Any one, two, three, or four channel organs

## INTRODUCTION

This kit contains a console connector assembly, console cable, and control center along with appropriate mounting hardware. When properly installed to the organ and connected to the Lealie speaker, it provides matching for Proventing Pathern and Connected to the Lealie speaker, it provides matching force proventing the provided proventing the provided proventing the provided provided proventing the provided provid

### KIT CONTENT

 Console Connector Assembly
 009-057678
 Hardware Package
 089-057686

 Control Center Assembly
 019-057692
 Installation Instructions
 047-057676

CAUTION: Due to the presence of electrical potential and the danger of nowing mechanical parts, installation procedures or adjustments repeated to the procedure or adjustments repeated to the date of the performed only by a service person authorized by the dealer or factory to perform such work.

CAUTION: DISCONNECT ORGAN POWER BEFORE PROCEEDING.

#### CONTROL CENTER MOUNTING

- Select a location under the keyboard shelf where the control is to be mounted, either factor right, as the organizate preferz. Resp in sind that nounting bracket may be reversed, if deelred, by removing the four corner screen, curring it around, and re-fastening it to the plastic case with the four corner screen, This enables the control to be mounted to the it is made of wood, see Figure 1 and Figure 2 or the keyboard shelf it it is made of wood, see Figure 1 and Figure 2 or the keyboard shelf it
- 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.

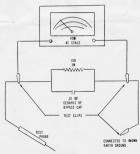
CAUTION SEE SAFETY NOTICE ON INSIDE COVER SHEET 047-057676

#### SAFETY NOTICE

Great care has been taken in the design and manufacture of this product to assure that no shock hazed 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 theroughly familiar with the precautions necessary when writing on this tops of equilibration.

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 stars any service operation.

Plug the AC line cord directly into a line voltage AC receptable (do not use an itelation transformer for this test and sur the production. Connect the reservice, said shows believe the series with all exposed metals parts and a known earth ground such as a water pipe or conduct. Use an AC VOM AC 3000 chain per vice in the pipe restrictly to measure the voltage drop across the network. More the network connection to each appeal metals part finished chases, series had, snobs and control shafts, exclusions, etc.) and measure the voltage drop across the network. Reverse the time plug and repeat the measurements. Any readed of 4 vices that of metals are considered to the series of the control of the



TO EXPOSED METAL PARTS

#### CONSOLE CONNECTOR MOUNTING

Nount the console connector chassis inside the organ within reach of the organ smplifier and specker wiring using  $8 \times 1/2^n$  sheet netal screez provided. Install the console cable and control center cable plugs to the appropriate sockets on the console connector printed wiring board.

#### WIRING

- CAUTION: When selecting a place to attach the Black wire to ground in the following wiring instructions, make certain the point selected is a true ground, traceable back to the amplifier, not just a pseudo ground or common the point for the point of th
- A. For single channel organs with "G-G" terminals not self-contained:
  - Remove the wires from the "G-G" terminals. Connect one of them to the Green wire from the console cable and connect the other one to the Violet wire from the console cable using the wire nuts wrevided.
    - Connect the Brown wire from the console cable to one of the vacated "G" terminals and the Orange wire from the console cable to the other vacated "G" terminal.
  - Connect the Black wire from the console cable to the ground terminal. Do not remove existing ground wire.
  - Disconnect (by clipping or unsoldering) all 5 jumpers, plus the large 80 resistor, on the printed circuit board.
  - 5. Tape up or clip the remaining console cable wires, as they are not used.
- B. For single channel organs with self-contained amplifiers and speakers:
  - 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).
     Connect one of the Red wires from the console cable to the wire coming
    - from the organ amplifier (after phone jack) using a wire nut provided.
      3. Connect the Blue wire from the console cable to the wire going to the speaker (or crossover if one is used) using a wire nut provided.
    - the speaker (or crossover if one is used) using a wire nut provided.

      4. Connect the Black wire from the console cable to the amplifier,
    - crossover, or speaker ground. Do not remove existing ground wire.

      5. Disconnect (by clipping or unsoldering) wire jumpers #1, #2, & #5,
    - plus the large an resistor, on the printed circuit board.

      6. Tape up or clip the remaining console cable wires, as they are not used.
- Tape up or clip the remaining console cable wires, as they are not useFor Dual channel organs consisting of a Main channel and a Reverb channel

with self-contained amplifiers and speakers:

 Cut the signal wire between the organ Main amplifier (after the phone jack if one is used) and the Main speaker (or crossover if one is used).

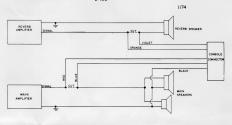


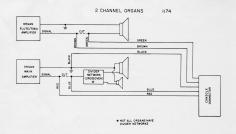


Four sets of mounting screws of different lengths to accommdate different key strip heights are included in the hardware package.

- Connect one of the Red wires from the console cable to the wire coming from the organ Nain amplifier (after phone jack) using a wire nut provided,
- Connect the Blue wire from the console cable to the wire going to the Main speaker (or crossover if one is used) using a wire nut provided.
- Connect the Black wire from the console cable to the amplifier, crossover, or speaker ground. Do not remove existing ground wire.
- Remove the existing wire going to the Reverb amplifier Input and tape up. Connect the other Red wire from the console cable to the Input to the Reverb amplifier.
- Cut the signal wire between the organ <u>Reverb</u> amplifier (after the phone jack if one is used and after the <u>Reverb</u> control) and the <u>Reverb</u> speaker (or crossover if one is used).
   NOTE: Most organs will have the Reverb control in the ground side of the <u>Reverb</u> amplifier output, If so,
  - ground slde of the weers applitter output. It so, reverse the two speaker leads at the amplifier. (The symptom will be no reverb in Leslie position.)
- 7. Connect the Crange wire from the console cable to the wire coming from the Reverb amplifier using a wire nut provided.
  8. Connect the Violet wire from the console cable to the wire going to
- the Reverb speaker using a wire nut provided.
- Disconnect (by clipping or unsoldering) wire jumpers #1, #2, & #5 on the printed circuit board.
- 10. Tape up or clip the remaining console cable wires, as they are not used.
- D. For Dual channel organs consisting of a Main channel and a separate Flute/Tibia channel with self-contained amplifiers and speakers:
  - Cut the signal wire between the organ Main amplifier (after the phone jack if one is used) and the <u>Main</u> speaker (or crossover if one is used).
  - Connect one of the Red wires from the console cable to the wire coming from the organ Main amplifier (after phone jack) using a wire nut provided,
  - Connect the Blue wire from the console cable to the wire going to the Main speaker (or crossover if one is used) using a wire nut provided.
  - Connect the Black wire from the console cable to the amplifier, crossover, or speaker ground. Do not remove existing ground wire.
  - Out the signal wire between the organ Flute/Tibia amplifier (after the phone jack if one is used) and the Flute/Tibia speaker (or crossover if one is used).
  - Connect the Brown wire from the console cable to the wire coming from the organ Flute/Tibia amplifier (after phone jack) using a wire nut provided.

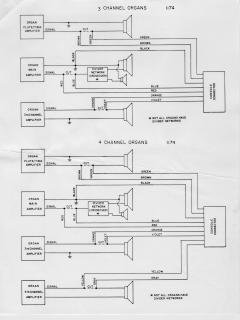
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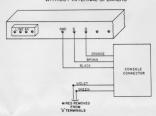


- Connect the Green wire from the console cable to the wire going to the Flute/Tibia speaker (or crossover if one is used) using a wire nut provided.
- 8. If a single channel Leslie tone cabinet is being used, disconnect (by clipping or unsoldering) wire jumpers #1, #2, 6 #5, plus the large @C resistor, on the printed circuit board.
  If a gual channel Leslie tone cabinet is being used, disconnect (by
  - clipping or unsoldering) wire jumpers #2, #3, 6 #5, plus the large #2) resistor, on the printed circuit board. 9. Tame up or clip the remaining console cable wires, as they are not used.
- E. For three channel organs consisting of a Main channel, a separate Flute/ Tibis channel, and a separate third channel such as Fedal, Reverb, or String Engemble.
  - Cut the signal wire between the organ Main Amplifier (after the phone jack if one is used) and the Main speaker (or crossover if one is used).
  - Connect one of the Red wires from the console cable to the wire coming from the organ Main amplifier (after phone jack) using a wire nut provided.
  - Connect the Blue wire from the console cable to the wire going to the Main speaker (or crossover if one is used) using a wire nut provided.
  - 4. Connect the Black wire from the console cable to the amplifier, crossover, or speaker ground. Do not remove existing ground wire.
  - Cut the signal wire between the organ Fluto/Tibia amplifier (after the phone jack if one is used) and the <u>Flute/Fibia</u> speaker (or crossover if one is used).
  - Connect the Brown wire from the console cable to the wire coming from the organ Flute/Tibia amplifier (after phone jack) using a wire nut provided.
  - Connect the Green wire from the console cable to the wire going to the Flute/Tibia speaker (or crossover if one is used) using a wire nut provided.
  - 8. If the third channel consists of a Reverb channel deriving its signal from the Nain channel speaker, remove the existing wire going to the Reverb amplifier Inguit and tape up. Connect the other Red wire from the console cable to the <u>Input</u> to the Reverb amplifier. Otherwise, disregard this step.
  - Cut the signal wire between the organ Third channel amplifier (after the phone jack if one is used and after the Reverb control if applicable) and the Third channel speaker (or crossover if one is used).
  - 10. Connect the Grange wire from the console cable to the wire coming from the organ Third channel amplifier (after phone) sack and Reverb control) using a wire nut provided. (See note under C Step 6 if the Third channel is Reverb.)

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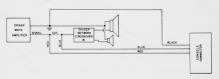


#### HAMMOND ORGANS WITH"G"TERMINALS WITHOUT INTERNAL SPEAKERS

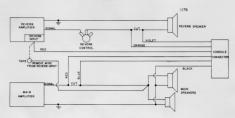


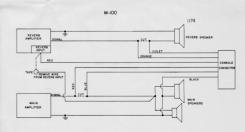
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# I CHANNEL ORGANS



# NOT ALL ORGANS HAVE DIVIDER NETWORKS





- Connect the Violet wire from the console cable to the wire going to the Third channel speaker (or crossover if one is used) using a wire nut provided.
- 12. If a single channel Leslie tome cabinet is being used, disconnect (by olipping or unsoldering) wire jumpers #1, #2, \$ #5, plus the large (8) resistor, on the printed circuit board, (the large #6) resistor is left in Only if the organ Third channel is Reverb with a Reverb control.)
  - If a <u>dual channel</u> Leslie tone cabinet is being used, disconnect (by clipping or unsoldering) wire jumpers #2, #3, & #5, plus the large RC resistor, on the printed directi board. (The large RC resistor is left in <u>Only</u> if the organ Third channel is Reverb with a Reverb control.)
- 13. Tape up or clip the remaining console cable wires, as they are not used.
- F. For four channel organs consisting of a Main channel, a separate Flute/ Tibia channel, a separate third channel such as Fedal, Reverb, or String Ensemble, and a separate fourth channel, usually String Ensemble.
  - Cut the signal wire between the organ Main amplifier (after the phone jack if one is used) and the Main speaker (or crossover if one is used).
  - Connect one of the Red wires from the console cable to the wire coming from the organ Main amplifier (after phone jack) using a wire nut provided.
    - Connect the Blue wire from the console cable to the wire going to the Main speaker (or crossover if one is used) using a wire nut provided.
    - Connect the Black wire from the console cable to the amplifier, crossover, or speaker ground. Do not remove existing ground wire.
  - Cut the signal wire between the organ <u>Flute/Fibia</u> amplifier (after the phone jack if one is used) and the <u>Flute/Fibia</u> speaker (or crossover if one is used).
  - Connect the Brown wire from the console cable to the wire coming from the organ Flute/Tibia amplifier (after phone jack) using a wire nut provided.
  - Connect the Green wire from the console cable to the wire going to the Flute/Tibia speaker (or crossover if one is used) using a wire nut provided.
  - 8. If the third channel consists of a Reverb channel deriving its signal from the Main channel speaker, remove the existing wire going to the Reverb amplifier input and tape up. Connect the other Red wire from the console cable to the <u>Input</u> to the Reverb amplifier. Otherwise, disregard this step.

- Out the signal wire between the organ Third channel amplifier (after the phone jack if one is used and after the Reverb control if applicable) and the Third channel speaker (or crossover if one is used).
- Connect the Crange wire from the console cable to the wire coming from the organ Third channel seplifier latter phone jack and Reverb Chird channel is Newerb, [See note under C Step 6 if the Third channel is Newerb,]
- Connect the Violet wire from the console cable to the wire going to the 'third channel speaker (or crossover if one is used) using a wire nut provided.
- Cut the signal wire between the organ Fourth channel amplifier (after the phone jack if one is used) and the Fourth channel speaker (or crossover if one is used).
- Connect the Yellow wire from the console cable to the wire coming from the organ Fourth channel amplifier (after phone jack) using a wire nut provided.
- 14. Connect the Gray wire from the console cable to the wire going to the Fourth channel speaker (or crossover if one is used) using a wire nut provided.
- 15. If a single channel Leslie tone cabinet is being used, disconnect (by clipping or unsoldering) wire jumpers #1 a #2, plus the large @7 resistor, on the printed circuit board. (The large @7 resistor is left in Only if the organ Third channel is Reverb with a Reverb control.)
  - If a <u>dual channel</u> Leslie tome cabinet is being used, disconnect (by <u>Olipping</u> or unsoldering) wire jumpers 42, 43, 6 45, plus the large QT resistor, on the printed circuit board. (The large EC) resistor is left in <u>Only</u> if the oryan Third channel is Reverb with a Reverb control.)
  - If a three channel Leslie tone cabinet is being used, disconnect by clipping or unsoldering) wire jumpers #2, #3, £ #4, plus the large @C resistor, on the printed circuit board. (The large @C resistor is left in Only if the organ Third channel is Reverb with a Reverb control.
  - If a <u>four channel</u> Leslie tone cabinet is being used, disconnect thy <u>Clipping</u> or unsoldering) wire jumpers #3, #4, & #5, plus the large Oresistor, on the printed circuit board. (The large Oresistor is left in <u>Cnly</u> if the organ Third channel is Reverb with a Reverb control.)
- Tape up or clip any remaining console cable wires, as they are not used.

#### FINAL CHECK

theck all connections for proper bookup. Trees wires easily and secure with cable clamps and/or cable ties. Connect leads speaker cable to consol connector socket and to tone cablest. Turn on organ and tone cablinet power and adjust volume of tone cablinet to desired level according to instructions in tone cablinet owner's menual. Check that control center switches provide proper response in tone cablinet.

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 deeler. Orders should include port numbers listed.

#### PARTS LIST

### CONSOLE CABLE 011-057692

#### CONSOLE CONNECTOR ASSEMBLY 009-057678

Circuit Board Assembly Chassis	124-000747 035-057325
Standoffs	044-050580
11-Pin Socket	504-028852

# CONTROL CENTER ASSEMBLY 008-057672

Cable Mounting Plate	035-057338
Angle Bracket Mounting Plate	035-057324
Case - Silk Screened	541-141114-003
Knob - White	531-137291
Switch - Lever - 3 Position - 2 Pole	508-137304
Switch - Lever - 3 Position - 8 Pole	508-139035
Switch Assembly = ON/OFF	523-137339

