

## CONSOLE CONNECTOR KIT 7084 INSTALLATION INSTRUCTIONS

### FOR USE WITH:

BALDWIN Organ Models 126 series, 130A, 130B, 130C, 130D, 230 series, 711

LESLIE Speaker Models 700, 710

When this kit is installed the echo control will enable the organist to select whether the LESLIE speaker will sound alone, the organ speakers alone, or all will sound together.

The organ tremolo tabs will control the tremolo speed of the LESLIE speaker's rotor as well as that in the organ.

The ON/OFF tab must be switched to ON before the FAST/SLOW tremolo tab can be operated.

### KIT CONTENT

|                                         |        |                                                   |        |
|-----------------------------------------|--------|---------------------------------------------------|--------|
| Console Connector Assembly              | 129240 | Hardware Package                                  | 137196 |
| Cable Assembly, 9-conductor,<br>30-foot | 021600 | Screw, wood, 6 x 1/2,<br>Phillips head (2)        | 029124 |
| Oiler                                   | 053025 | Screw, sheet metal, 8 x 1/2,<br>Phillips head (2) | 029132 |
| Echo Control<br>brown                   | 101480 | Staple, insulated (4)                             | 028464 |
| ebony                                   | 101490 | Sleeving, clear (3 inches)                        | 021279 |
| ivory                                   | 101500 |                                                   |        |

**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 man authorized by the dealer or factory to perform such work.

### INSTALLATION

**CAUTION:** DISCONNECT ORGAN POWER BEFORE PROCEEDING!

1. Remove the back from the organ.
2. Mount the console connector in a location where all the wires will reach their intended destinations. (Suggested locations are under the shelf or on the pedal box.)
3. Echo Switch: Fasten the echo switch under the keyboard shelf, either left or right, as the organist prefers. Wood screws are provided.
4. Route the control cable through the keyboard shelf and into the area where the console connector is located. If no hole is provided in the keyboard shelf, drill a 1-inch-diameter hole, being careful to select a location where no internal components will be damaged.

5. Connect the plug on the control cable to the ECHO SW socket on the console connector.

NOTE: Some of the wires in the kit terminate in spadetype connectors. Not all organ models provide matching contacts for these wires. In such a case the contact is to be cut off and the connection made with a wire nut. Alternate instructions are given for steps in which this may be necessary.

6. Rotary Speaker: Disconnect the lead which goes to the motor of the rotary speaker. Connect the socket of the interceptor (from the console connector) to this lead.
7. Connect the plug of the interceptor to the socket on the organ, from which the lead was just removed.
8. Disconnect the green wire from the terminal strip near the bottom of the rotary speaker (speaker input). Connect this wire to the blue wire from the console connector.\* Connect the violet wire from the console connector to the contact on the terminal strip from which the wire was just removed.

Alternate: If the rotary speaker input lead (green wire) is not attached with a spade-type connector, cut the lead, leaving a workable length (6 to 8 inches) on each side. Cut the connectors from the blue and the violet wires coming from the console connector. Attach the blue wire to the amplifier side of the lead and the violet wire to the speaker side of the lead, using wire nuts.

9. Stationary (main) Speaker: (right side, as viewed from the organ back) Remove the yellow wire from the speaker terminal; attach it to the red wire from the console connector.\* Attach the green wire from the console connector to the speaker terminal.

Alternate: If the lead is soldered to the speaker terminal, cut the wire. Cut the connectors from the red and the green wires coming from the console connector. Attach the red wire to the amplifier side of the speaker lead and the green wire to the speaker side of the lead, using wire nuts.

10. Pedal Speaker: (large, centrally located) Disconnect the brown (possibly red) wire from the speaker and attach it to the yellow wire from the console connector.\* Attach the white wire from the console connector to the speaker terminal. Attach the black wire from the console connector to the ground terminal of the speaker.

\*Cover the connection with plastic sleeving.

Alternate: If the leads are soldered to the speaker terminals, cut the signal wire. Cut the connectors from the white, the yellow, and the black wires coming from the console connector. Attach the yellow wire to the amplifier side of the speaker lead and the white wire to the speaker side of the lead, using wire nuts.

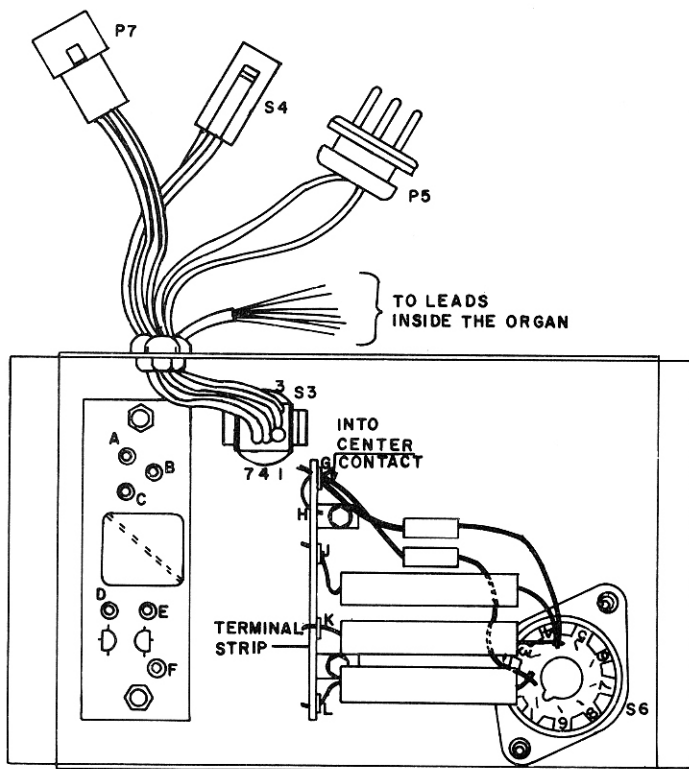
Cut the ground wire and connect both ends with the black wire from the console connector, using a wire nut.

11. AC: At the right side of the organ interior locate a plate labeled REMOTE CABINETS. Above the title are a fuse, cable, and two sockets. Connect the AC plug from the console connector (6-contact plug with two wires attached) to the left-hand socket at this location.

Alternate: If no socket is provided, cut the plug from the two wires. Locate wires in the organ which carry switched 117V AC; the primary leads of the power transformer may be used for this connection. Cut the leads and splice in the blue and the gray wires from the console connector, using wire nuts (three wires to each wire nut).

12. **Speaker Cable:** Connect the cable provided in the kit to the socket labeled **LESLIE SPEAKER** on the console connector. Connect the other end to the **LESLIE** speaker being used. Adjust the speaker volume if it is necessary.

13. After testing the speaker and control operation, replace the organ back.



| FROM                 | COLOR  | TO               |
|----------------------|--------|------------------|
| point A              | blue   | interceptor assy |
| point B              | gray   | interceptor assy |
| point C<br>(2 wires) | yellow | interceptor assy |
| S6, pin 9            | blue   | cable assy       |
| S6, pin 8            | gray   | cable assy       |
| S3, pin 1            | red    | point L          |
| S3, pin 2            | yellow | point J          |
| S3, pin 3            | red    | end free         |
| S3, pin 4            | yellow | end free         |
| S3, pin 5            | violet | end free         |
| S3, pin 6            | green  | end free         |
| S3, pin 7            | blue   | end free         |
| S3, pin 8            | orange | point K          |
| S3, pin 9            | white  | end free         |
| point D              | violet | S6, pin 7        |
| point E              | black  | point H          |
| point F              | white  | S6, pin 6        |
| point G              | black  | end free         |
| point H              | black  | S6, pin 1        |

## Console Connector 129240 Wiring Locations

\*Cover the connection with plastic sleeving.

## Ordering Parts

Standard hardware, connectors, and electronic components should be purchased locally. Non-standard items may be obtained through a LESLIE speaker dealer.

## PARTS LIST: 129240 CONSOLE CONNECTOR ASSEMBLY

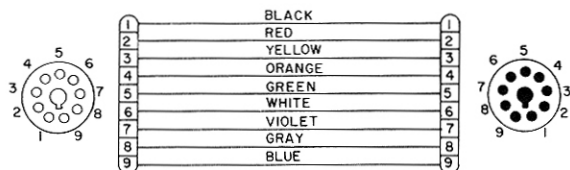
|                                      |        |
|--------------------------------------|--------|
| Circuit Board Assembly               | 063818 |
| Lamp, miniature, neon, #Ne2 (M1, M2) | 063958 |
| Resistor, 100K, 1/2W, 10% (R1, R2)   | 028498 |
| Resistor, LDR, VT-904 (R10, R11)     | 117980 |
| Resistor, 120K, 1/2W, 10% (R5, R6)   | 027078 |
| Transistor, MSPS 4382 (Q1, Q2)       | 026237 |
| Circuit Board, Etched                | 059303 |
| --attaching parts--                  |        |
| Screw, machine, 8-32 x 1-1/8         | 027375 |
| Bushing, .196 x .312 x .625          | 055079 |
| Washer, lock, 8 x 5/16 x .020        | 026765 |
| Nut, hex, 8-32 x 11/32 x 1-1/8       | 026773 |
| Washer, flat, 8 x 3/8 x 1/32         | 037325 |

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|                                                             |        |
|-------------------------------------------------------------|--------|
| Interceptor Assembly, Mini-Molex, 3-circuit                 | 101360 |
| Cable & Plug Assembly (includes P5)                         | 057406 |
| Can Assembly, lamp housing                                  | 063826 |
| Socket Housing, Mini-Molex, 9-circuit, natural (white) (S3) | 101280 |
| Resistor, 8.2-ohm, 1W, 10%(R4, R5)                          | 010124 |
| Resistor, wire-wound, 32-ohm, 10W, 10% (R1, R2, R3)         | 029769 |
| Socket with Plate, 9-contact (S6)                           | 061713 |
| Screw, sheet metal, 12 x 3/8, Phillips head                 | 029314 |
| Terminal Strip, 4-lug                                       | 063529 |
| Screw, sheet metal, 6 x 1/4, hex washer head                | 026666 |
| Contact, insert, Mini-Molex, female                         | 065581 |
| Connector Tab, AMP, male                                    | 029371 |
| Connector Tab, BERG, female                                 | 029389 |

## PARTS LIST: 021600 CABLE ASSEMBLY

|                            |        |
|----------------------------|--------|
| Plug Assembly, 9-pin       | 061879 |
| Socket, 9-contact          | 028837 |
| Cap, body                  | 022046 |
| Clamp, cut                 | 022079 |
| Screw, machine, 6-32 x 3/8 | 027979 |



(Plug and socket  
viewed from wire end)

## PARTS LIST: ECHO CONTROL

### Switch Case

|       |        |
|-------|--------|
| brown | 103750 |
| ebony | 103760 |
| ivory | 103770 |

### Case Cover

|       |        |
|-------|--------|
| brown | 048702 |
| ebony | 048710 |
| ivory | 048728 |

### Switch Knob

|       |        |
|-------|--------|
| brown | 048066 |
| ebony | 048074 |

### Switch, Cable, and Plug Assembly

101460

### Switch Retainer (2)

048116

### Screw, TCF, 6-32 x 3/8 (2)

029140

### Label (MAIN/ENS/ECHO)

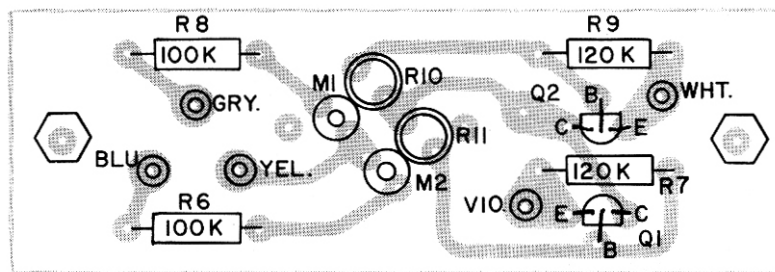
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### Cork, Adhesive, 11/16 x 3

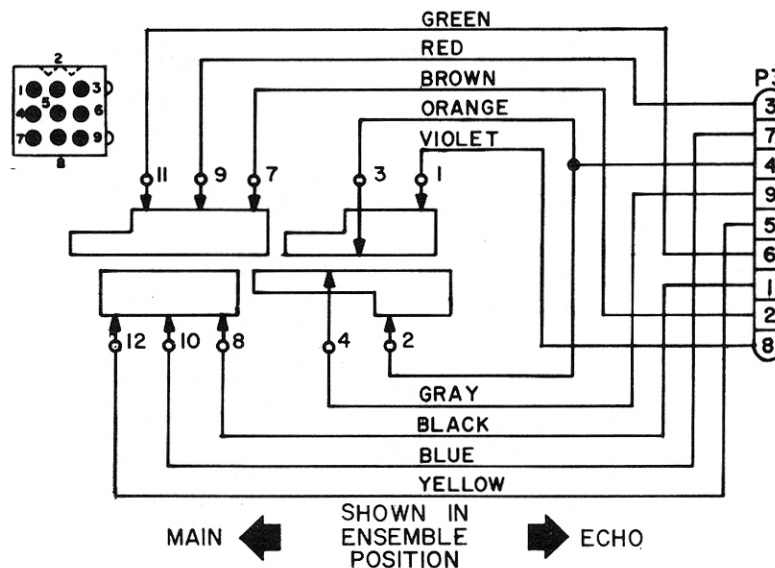
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## MULTIPLE SPEAKER INSTALLATION

For complete information see the service manual for the LESLIE speaker to be added.



Circuit Board Assembly 063818



Schematic, Echo Switch 101480 (Plug Shown from Wire End)