

CONSOLE CONNECTOR KIT 7091 INSTALLATION INSTRUCTIONS
FOR USE WITH: BALDWIN Organ Models 213 and 214
LESLIE Speaker Models 700 and 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.

KIT CONTENT

Console Connector Assembly	133220	Echo Control	
Cable Assembly, 9-conductor,		brown	101480
30-foot	021600	ebony	101490
Hardware Package	133260	ivory	101500
Screw, wood, 6 x 1/2,		Tremolo Control	
Phillips head (4)	029124	brown	043281
Screw, sheet metal, 8 x 1/2,		ebony	043299
Phillips head (2)	029132	ivory	043307
Insulated Staple (4)	028464	Oiler	053025

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 and Tremolo switches: Fasten the switches under the keyboard shelf, either left or right, as the organist prefers. Wood screws are provided.
4. Route the control cables 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 from the echo switch to the ECHO SW socket on the console connector and the plug from the tremolo switch to the TREMOLO SW socket.

NOTE: Some of the wires in the kit terminate in spade-type 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. 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.

7. 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.

8. 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.

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.

9. 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.

*Cover the connection with plastic sleeving.

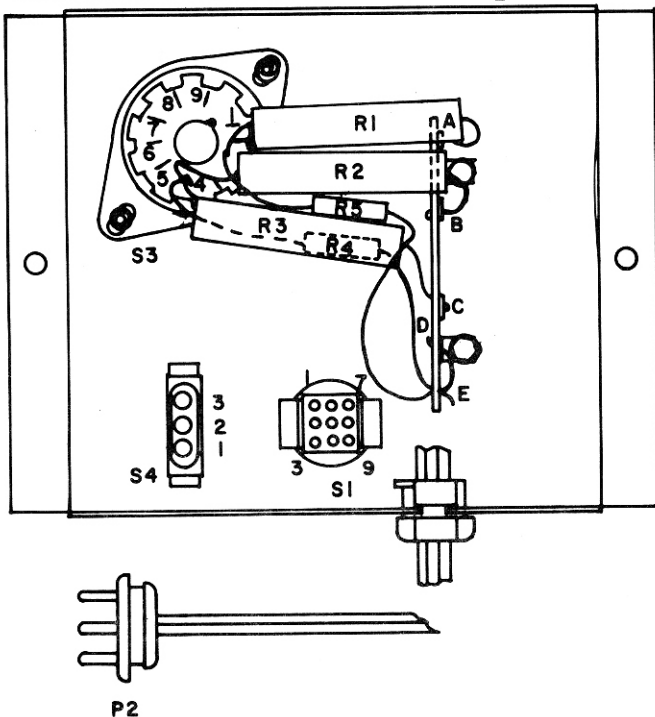
Alternate: If no socket is provided, cut the plug from the two wires. Locate wires in the organ which carry switched 117V AC; the primary leads of the power transformer may be used for this connection. Cut the leads and splice in the blue and the gray wires from the console connector, using wire nuts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

10. 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.

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

FROM	COLOR	TO
S1, pin 1	RED	terminal A
S1, pin 2	YELLOW	terminal C
S1, pin 3	RED	end free
S1, pin 4	YELLOW	end free
S1, pin 5	VIOLET	end free
S1, pin 6	GREEN	end free
S1, pin 7	BLUE	end free
S1, pin 8	ORANGE	terminal B
S1, pin 9	WHITE	end free
S3, pin 1	BLACK	S4, pin 1
S3, pin 1	BLACK	terminal D
S3, pin 6	WHITE	S4, pin 3
S3, pin 7	VIOLET	S4, pin 2
S3, pin 8	GRAY	AC
S3, pin 9	BLUE	AC
terminal E	BLACK	end free

Console Connector Assembly 133220



WIRING NOT SHOWN

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 as listed.

PARTS LIST: 133220 CONSOLE CONNECTOR ASSEMBLY

Cable & Plug Assembly, 30-in.	057406
Plug, 6-pin	061721
Socket Housing, Mini-Molex, 9-circuit, natural (white) (S1)	101280
Contact, insert, Mini-Molex, female	065581
Socket with Plate, 9-contact(S3)	061713
Socket Housing, Mini-Molex, 3-circuit, natural (white) (S4)	106330
Contact, insert, Inline Molex, female	023556
Connector Tab, AMP, male	029371
Connector Tab, BERG, female	029389
Resistor, wire-wound, 32-ohm, 110W, 10% (R1, R2, R3)	029769
Bushing, strain relief	027986
Terminal strip, 4-lug	063529

PARTS LIST: ECHO CONTROL

Switch Case		Switch, Cable, & Plug Assembly	101640
brown	103750		
ebony	103760		
ivory	103770	Switch Retainer (2)	048116
Case Cover			
brown	048702	Screw, 6-32 x 3/8, thread-cutting (2)	029140
ebony	048710		
ivory	048728		
Switch Knob		Label, MAIN/ENSEMBLE/ECHO	103670
brown	048066		
ebony	048074	Cork, adhesive	029157

PARTS LIST: TREMOLO CONTROL

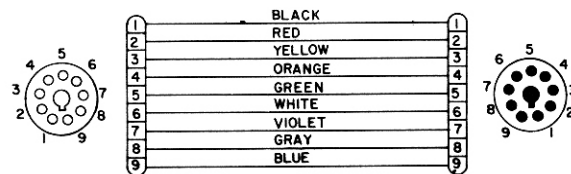
Switch Case		Switch, Cable, & Plug Assembly	043315
brown	103750		
ebony	103760		
ivory	103770	Switch Retainer	048116
Case Cover			
brown	048702	Screw, thread-cutting, 6-32 x 3/8 (2)	029140
ebony	048710		
ivory	048728		
Switch Knob		Label, CHORALE/OFF/TREMOLO	103650
brown	048066		
ebony	048074	Cork, adhesive	029157

MULTIPLE SPEAKER INSTALLATION

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

PARTS LIST: 021600 CABLE ASSY

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 Shown from Wire End)

Schematic, next page

