

CONSOLE CONNECTOR KIT 7830

INSTALLATION INSTRUCTIONS

FOR USE WITH: LESLIE Speaker Models 130, 330, 820, 860

KIT CONTENT

Console Connector 137283 Switch Assembly, Cable Assembly, ECHO/TREMOLO, black

11-conductor, 30-foot 137357

Hardware Package 137356 Oiler\*

CAUTION: Due to the presence of electrical potential

and the dampiesence of electrical potential, and the dampiesence of soving mechanical parts, installations work installations requiring work inside the LEGIST cabinet or the organ console should be performed only by service personnel authorized by the dealer or factory to perform such work.

#### INSTALLATION

CAUTION: DISCONNECT ORGAN POWER BEFORE PROCEEDING!

NOTE: Read the instructions completely through before beginning actual installation.

CONTROL UNIT MOUNTING (figures 1, 2)

 Select a location under the keyboard shelf where the control is to be mounted, either left or right, as the organist prefers.

The plug on the control cable must pass into the interior of the organ. If no hole is available, use a hole saw to make a 1-inchdiameter hole.

CAUTION: BE CAREFUL TO SELECT A LOCATION WHERE NO INTERNAL COMPONENT OR WIRING WILL BE DAMAGED WHEN THE HOLE IS MADE.

<sup>•</sup> NEMER USE THE OIL ON THE BEARINGS OF THE ROTOR. These bearings are treated at the factory with a special type of lubricant, and application of any other type of lubricant may be detrimental to the operation of the rotor. The oil included in this kit is to be used only for oiling the motor of the LESLIE speaker.

- Indicate the control location on the under side of the shelf. Cut out the paper template (figure 2) provided in this instruction sheet.
- 4. Measure the width of the key strip at the place chosen for control mounting, Fold the template along the line corresponding to this width. If the keybed is flat (no separate key strip) do not fold the template at all.
- Lay the template in position behind the key strip, with the narrow portion toward the front of the organ, and use a sharp instrument or pencil to scribe the location of the four mounting screws. Start the holes for the screws.

NOTE: To retain maximum screw-holding power, merely break the surface of the wood.

- 6. Put the four leveling screws (flat-headed machine screws) into the holes indicated in figure 2, WITH THE HEADS UPWARD. Hold the control mounting bracket in position at the location marked for mounting. Adjust each of the four leveling screws so that the control is positioned just below the keybed, and is level. See figure 1.
  - NOTE: Be sure the control switch handles do not protrude too much.
- Select one set of four mounting screws which are sufficiently long to fasten the control to the organ but not so long as to damage internal wiring or components.
- Fasten the mounting screws into the keyboard shelf in the locations previously marked.
- Route the control cable through the hole prepared for it and through the organ into the area near the back panel.

### CONSOLE CONNECTOR MOUNTING

Choose a location for the console connector in the area of the back panel, or other suitable place where the chassis can be firmly fastened and will not touch other components.

If it is intended that plug-in connection to the LESILE speaker shall be made through the back panel of the organ, a suitable hole must be provided and the console connector mounted in such a way connector is not located adjacent to the back panel the connecting cable, after being attached to the ll-contact socket, must pass through a hole or opening in the back panel. On some organ models such an opening may already be available; if it is not, a small; which is a small connecting the such as the such as

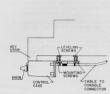


Figure 1. Control Mounted on Organ

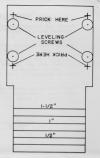


Figure 2. Control Location and Mounting Pattern

If the console connector is to be sounted for direct plug-in, as described above, choose a suitable location with sufficient clearance for attachment of all plugs and sockets and the control with control socket can be fulsh with the back panel. Using a hole saw or other suitable equipment, make a 1-1/4-innh-diameter hole in the back panel, centered exactly on the socket.

Using 1/2-inch-long sheet metal screws provided in this kit, attach the console connector to the organ.

#### CONNECTIONS

NOFE: The wires which connect to the organ circuits terminate in male or female tab connectors which fit directly to standard speaker terminals. If the wires to the speakers are soldered on, a choice must be made as to whether the leads shall be connected to the connections for the console connector.

Whichever method is selected, out the tab connector from the end of the wire and strip the wire JM-Sinch. Make the connection either by moldering the JM-Sinch. Make the connection either by moldering the other beautiful to the specific the selection of the sele

The brown and orange wires on the console connector are for channel 1 of the organ, and the red and vellow wires are for channel 2.

#### OMP-CHANNEL ORGANS WITH BUILT-IN SPEAKER (figure 3)

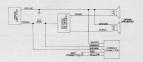
- Connect the BLACK wire of the console connector to any ground point on the organ console amplifier or to the organ speaker ground terminal.
- Remove the signal wire from the speaker in the organ; attach it to the BROWN wire of the console connector.
- 3. Attach the ORANGE wire to the speaker terminal just vacated. (If the wires in the organ are cut, connect the side that is still attached to the amplifier to the BROWN wire of the console connector. Connect the wire which is attached to the speaker to the ORANGE wire.)
- Wrap the YELLOW and RED wires (of the console connector) with tape, insulating them from contact with each other, and fasten them securely to the organ floor or side where they cannot touch any other component.



Figure 3. Interconnections, One-channel Organ

ONE-CHANNEL ORGANS WHICH CONTAIN A DIVIDING NETWORK (CROSSOVER) WHICH ROUTES SIGNALS TO TWO OR MORE BUILT-IN SPEAKERS. (figure 4)

- Connect the BLACK wire of the console connector to any ground point on the organ console amplifier or to the organ speaker ground terminal.
- Cut the signal lead between the organ amplifier and the crossover network. Connect the BROWN wire of the console connector to the amplifier side of the lead just cut, using a wire nut.
- Connect the ORANGE wire of the console connector to the crossover network side of the lead just cut, using a wire nut.
- Wrap the YELLOW and RED wires (of the console connector) with tape, insulating them from contact with each other, and fasten them securely to the organ floor or side where they cannot touch any other component.



Pigure 4. Interconnections, One-channel Organ With Dividing Network and Two Speakers

# TWO-CHANNEL ORGAN WITH BUILT-IN SPEAKERS. (figure 5)

- Connect the BLACK wire of the console connector to any ground point on the organ console amplifier or to the organ speaker ground terminal.
- Remove the signal wire from the channel 1 speaker in the organ; attach it to the BROWN wire of the console connector.
- Attach the ORANGE wire of the console connector to the speaker terminal which was just vacated.
- Remove the signal wire from the channel 2 speaker in the organ; attach it to the RED wire of the console connector.
- Attach the YELLOW wire of the console connector to the speaker terminal just vacated.

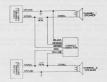


Figure 5. Interconnections, Two-channel Organ

#### FINAL PROCEDURES

- Attach the plug from the control unit to the small rectangular socket (S3) on the console connector.
- Using cable clamps, fasten the control cable to the organ frame or shelves so that it cannot move and, as far as is possible, does not touch any other wire or component.
- 3. If the console connector has been mounted for direct plug-in, replace the back panel of the organ and fasten it securely in place. Connect the 11-conductor cable between the socket on the console connector and the LESILE speaker.
- 4. If the console connector has been mounted in a position where direct connection from the outside is not possible, attach the cable to the area where it will pass through the organ back panel; attach the cable to the shelves or floor with cable clamps so that it cannot nove and, as far as is possible, does on the organ, making sure that the cable from the console connector is not pinched, and fasten the panel securely. Attach the other end of the cable to the LESLIE speaker.



Figure 6. Control Unit

### CONTROLS

The control unit, mounted just below the organ keyboard, groups all the controls in one convenient location.

The center BUTTON, a push-on, push-off control, is used to actuate the LESLIE speaker system. With the button set to off, only the organ speakers operate. With the button set to on (red light glowing) the speakers in the LESLIE speaker cabinet are ready to respond.

The LEFT-HAND TOGGLE SWITCH may be set for the FAST (tremolo) or SLDW (chorale) effect from the LESLIE speaker rotor. Up position is FAST; down is SLDW; center is OFF.

The RIGHT-HAND TOGGLE SWITCH is the ORGAN-MIX-ECHO switch. With the switch set upward, it is in ORGAN position (only the organ speakers sound). With the switch set downward, it is in ECHO position (only the LESLIE speakers sound). With the switch in its center, MIX, position, the organ and LESLIE speakers will play "ensemble" (both sounding at once).

Any combination of settings may be used to suit the musical effect desired. On the Model 130, high notes (over 4000 Hz) do not go through the rotor speaker and therefore are not affected by the FAST/SLOW switch setting.

The red light will help to remind you to turn the control off when you are through playing your organ.



Figure 7. Circuit Board Assembly 137339

Switch, push/push (SW3) Diode, silicon, 1-amp, 100 PIV	137303
(D2, D3, D4)	021154
Diode, light-emitting (D1)	137315
Resistor, 47-ohm, 1/2W, 10% (R1)	016311
Etched Circuit Board	137281
Etched Circuit Board	

### 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: 137283 CONSOLE CONNECTOR ASSEMBLY

	t, 11-contact (S2) ng, socket, 12-circuit,	028852
	niature Molex with tabs (S3)	137286
Conta	ct, insert, miniature Molex, female	065581
Conne	ctor, tab, AMP, male	029371
Conne	ctor, tab, Berg, female	029389
Resis	tor, wire-wound, 16-ohm, 10W, 10% (R2, R3)	029363
Resis	tor, wire-wound, 8-ohm, 5W, 10% (R4)	021493
Tormi	nal Strin 7-lug	117000

#### PARTS LIST: 137342 SWITCH ASSEMBLY

Switch and Cable Assembly	137340
Case	137282
Clamp, cable	137365
Knob, switch, white	137291
Nut, knurled	132430
Cork adhagina	137410

## PARTS LIST: 137340 SWITCH AND CABLE ASSEMBLY

Circuit Board Assembly	137339
Switch, lever, 3-position (SPEED) (SW2)	137304
Switch, lever, 3-position (ECHO) (SW1)	137305
Housing, plug, miniature Molex,	
12-circuit, natural (white) (P3)	101310
Contact insert ministure Moley male	065599

# PARTS LIST: 137357 CABLE ASSEMBLY

Plug Assembly, 11-pin (with screw)	(P2)	137299
Plug, 11-pin, modified		137296
Package, plug cap and screws		137457
(order for repair use)		
(contains plug body sections,		
screws, and tubing)		

