

CONSOLE CONNECTOR KIT 7777      INSTALLATION INSTRUCTIONS  
FOR USE WITH: GULBRANSEN Organ Model 3218 (Theatrum)  
LESLIE Speaker Models 700, 710

KIT CONTENT

|                                      |        |
|--------------------------------------|--------|
| Console Connector Assembly           | 110470 |
| Switch Assembly, echo                |        |
| brown                                | 101480 |
| ebony                                | 101490 |
| ivory                                | 101500 |
| Cable Assembly, 9-conductor, 30-foot | 021600 |
| Installation Instructions            | 110520 |
| Oiler                                | 053025 |
| Hardware Package                     | 127690 |

--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 panel from the organ by taking out all the screws and lifting the panel away. (There is one screw in the center of the back.)
2. When the back panel is removed two aluminum screws can be seen, one on each side of the upper back. Back these out part way.
3. Standing behind the organ, remove the back top panel by lifting slightly at the back and pulling the panel toward you.
4. At your left, as you stand at the rear of the organ, locate a black and a gray wire; disconnect these. Then remove the front top panel by pulling it toward you.
5. Remove two white standoffs, one at each side of the top of the organ (A, item 1).  
Note: Capital letters refer to parts of figure 1.
6. Remove two screws, one at each side, behind and just below the horseshoe board (A, item 2) .
7. Go to the front of the organ. Grasp the horseshoe board at each side and push back slightly, then lift. Use care in freeing the extreme front ends from behind the wooden corner blocks.

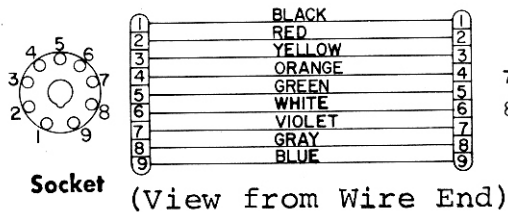
8. Remove the screws from each side of the upper (solo) manual. Lift the manual.
  9. Locate the round hole at the right (treble) side, behind the lower manual (B, item 1) .
  10. Fasten the echo control under the keyboard shelf, either left or right as the organist prefers. If the control is placed on the left, staple the cord under the shelf, using insulated staples.
  11. Draw the control cord through the round hole (located in step 9) and route it between the component boards and down behind the shelf (B,item 2)
  12. Plug the control cord into the ECHO SW socket of the console connector.  
(Plugging the control into the console connector may be postponed until the connector is in place in the organ, but it is then a little more difficult.)
  13. Working from the back of the organ, attach the console connector to the lower side of the shelf, at the left. See the illustration (C, item 1) for the location. The fuse (on the console connector) should be facing toward you.
  14. Locate the pedal speaker (C, item 2). Disconnect the colored wire from the signal terminal.
  15. Connect the yellow wire from the console connector to this wire. \*
  16. Connect the blue wire from the console connector to the signal terminal of the pedal speaker.
  17. Locate the 6 x 9 non-tremolo speaker. (C, item 3). Disconnect the colored wire from the signal terminal of this speaker.
  18. Connect the green wire from the console connector to this wire. \*
  19. Connect the white wire from the console connector to the signal terminal of the non-tremolo speaker.
  20. Disconnect the black wire from the ground terminal of the nontremolo speaker.
  21. Connect the brown wire from the console connector to this wire. \*
  22. Connect the violet wire from the console connector to the ground terminal on the non-tremolo speaker.
- NOTE: When cutting wires, always leave a workable length (approx. 6 in.) on each side of the cut.
23. Locate the tremolo speaker wires. (C, item 4). Cut the red wire which goes to the rotary contact on the tremolo speaker.

**\*Cover the connection with plastic sleeving.**

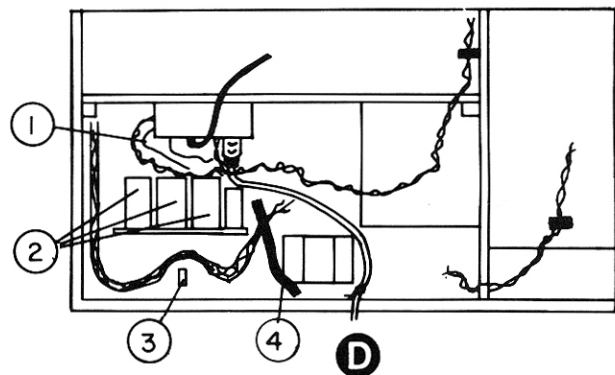
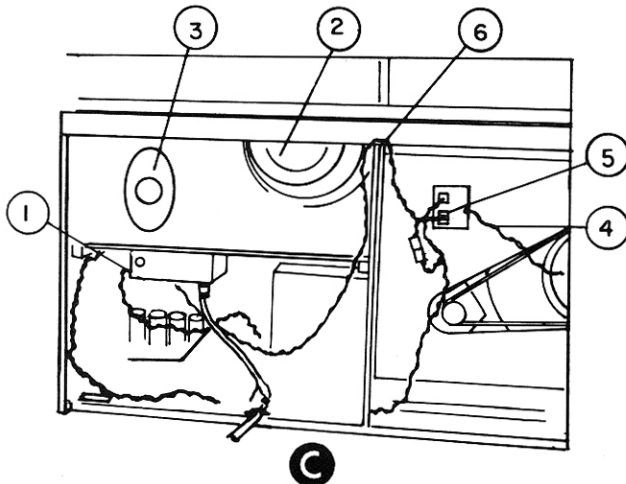
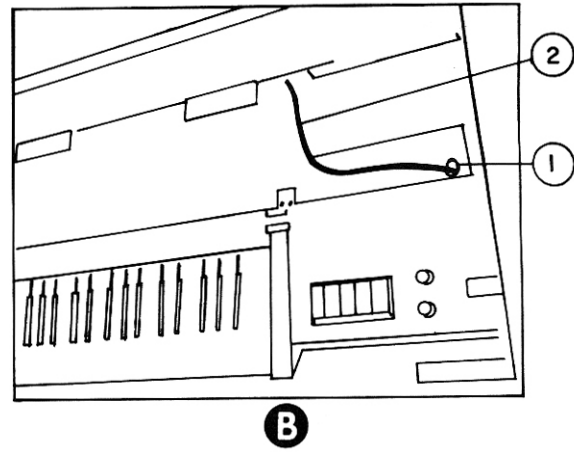
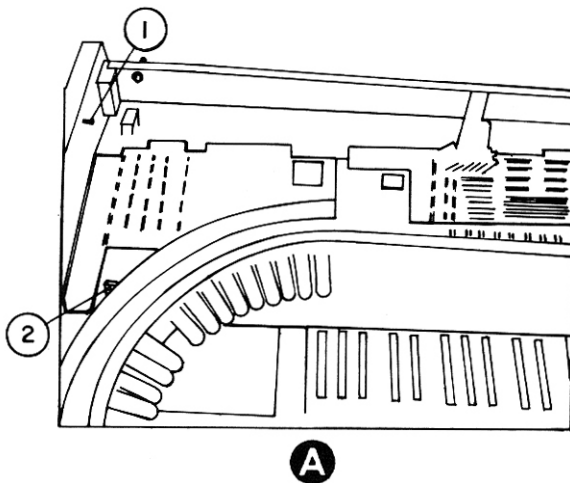
24. Using a wire nut, connect the orange wire from the console connector to the part of the red wire which goes to the rotary contact.
25. Using a wire nut, connect the red wire from the console connector to the part of the red wire which goes to the amplifier.
26. Cut the black wire which goes to the rotary contact (ground side) on the tremolo speaker.
27. Connect both ends of the black wire with the gray wire from the console connector, using a wire nut.
28. Locate the lower of the two white plugs and sockets on the upper left of the tremolo unit (C, item 5). Remove the socket.
29. Connect the socket you have just removed to the white plug of the console connector interceptor assembly. Connect the interceptor assembly socket to the organ.
30. Route the console connector wires over the center shelf support (C, item 6) and fasten them to the support, using insulated staples. The wires must be snug against the shelf so that they are not pinched when the organ back is replaced.
31. Connect the AC cord from the console connector (D, item 1) to the switched AC socket behind the three large yellow capacitors (D, item 2) on the lower left.
32. Locate the main ground point in the console. (D, item 3). It may be a long screw coming up from the floor, with many wires fastened to it. Attach the black wire (with a ring-type connector on it) from the console connector to this screw or other ground point.
33. Plug the cable from the LESLIE speaker into the LESLIE SPKR socket on the console connector.
34. Loosen the screw holding the cable clamp for the organ AC cable (D, item 5). Place the LESLIE speaker cable (connected during step 33) under the cable clamp and retighten the screw.
35. Put the upper manual down and fasten it with its screws.
36. Put down the horseshoe board. Push it gently toward the back of the organ to clear the front blocks.
37. Insert the two screws and the two standoffs removed in steps 5 and 6.

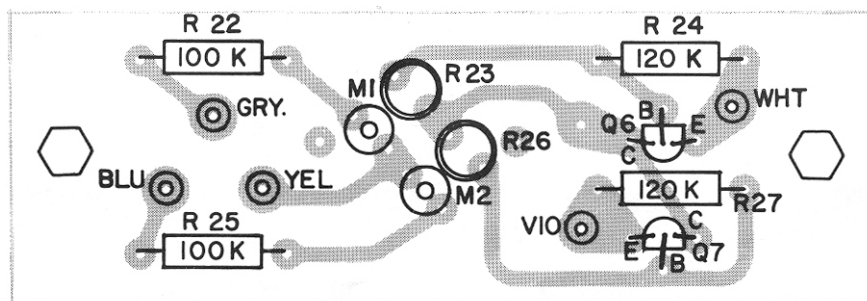
38. Install the front top panel. (Work from the rear.)
39. Fasten the black wire and the gray wire each to its terminal at the left (as you stand at the rear) .
40. Install the back top panel. Tighten the two aluminum screws which were backed out in step 2.
41. Put the organ back panel in place. Check that no wires are pinched. Then insert the screws and fasten the back in place. INSTALLATION IS NOW COMPLETE

#### PARTS LIST: 021600 CABLE ASSEMBLY

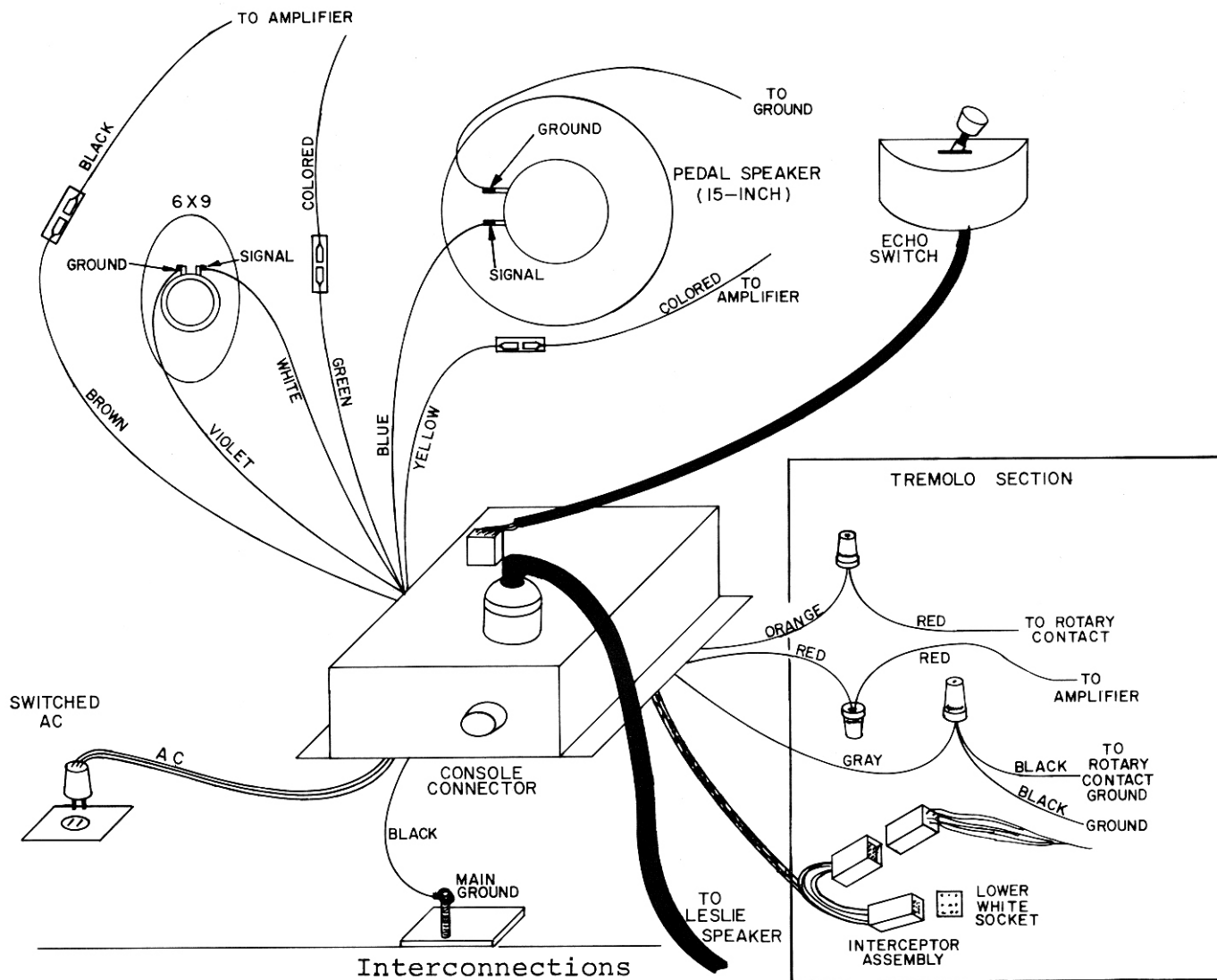


|                            |        |
|----------------------------|--------|
| Plug Assembly, 9-pin       | 061879 |
| Socket, 9-contact          | 028837 |
| Cap, body                  | 022046 |
| Clamp, cut                 | 022079 |
| Screw, machine, 6-32 x 3/8 | 027979 |





Circuit Board Assembly 063818



## 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: 110470 CONSOLE CONNECTOR ASSEMBLY

|                                                                              |        |
|------------------------------------------------------------------------------|--------|
| Circuit Board Assembly                                                       | 063818 |
| Lamp, miniature, neon, #Ne2 (M1, M2)                                         | 063958 |
| Resistor, 100K, 1/2W, 10% (R1, R2)                                           | 028498 |
| Resistor, LDR, ORP 66 (R3, R4)                                               | 030379 |
| Resistor, 120K, 1/2W, 10% (R5, R6)                                           | 027078 |
| Transistor, MSPS 4382 (Q1, Q2)                                               | 026237 |
| Circuit Board, Etched                                                        | 059303 |
| Cable and Housing Assembly, 9-circuit, socket,<br>color natural (white) (S3) | 101880 |
| Interceptor Assembly, 6-circuit, 20-inch                                     | 110480 |
| Housing, plug (P1)                                                           | 023259 |
| Housing, socket (S1)                                                         | 023267 |
| Contact, male                                                                | 023309 |
| Contact, female                                                              | 023556 |
| Can Assembly, lamp housing                                                   | 063826 |
| Resistor, 8.2 ohms, 1W, 10% (R7, R8)                                         | 010124 |
| Resistor, wire-wound, 32 ohms, 10W, 10%<br>(R9, R10, R11)                    | 029769 |
| Socket, 9-contact, with plate (S2)                                           | 061713 |
| Cable Assembly, 117-V, 29-inch, brown                                        | 029785 |
| Terminal strip, 6-lug                                                        | 058065 |
| Fuse Holder, Buss HKP                                                        | 055178 |
| Fuse, 5-amp, 250-V                                                           | 029280 |
| Bushing, Strain relief                                                       | 034769 |
| Bushing, .196 x .312 x .625 (2)                                              | 055079 |
| Screw, machine, 12 x 3/8, Phillips head (2)                                  | 029314 |
| Screw, machine, 6 x 1/4, hex washer head (2)                                 | 026666 |
| Screw, machine, 8-32 x 1-1/8 (2)                                             | 027375 |
| Washer, flat, 8 x 3/8 x 1/32 (2)                                             | 037325 |
| Washer, lock, 8 x 5/16 x .020 (4)                                            | 026765 |
| Nut, hex, 8-32 x 11/32 x 1-1/8 (2)                                           | 026773 |
| Lug, Ring, Tongue, #8                                                        | 010447 |
| Connector, Tab, Male                                                         | 029371 |

PARTS LIST: ECHO CONTROL

|             |        |                                     |        |
|-------------|--------|-------------------------------------|--------|
| Switch Case |        | Switch, cable, and<br>Plug Assembly | 101460 |
| brown       | 103750 |                                     |        |
| ebony       | 103760 |                                     |        |
| ivory       | 103770 | Switch Retainer (2)                 | 048116 |
| Case Cover  |        | Screw, TCF, 6-32 x 3/8 (2)          | 029140 |
| brown       | 048702 |                                     |        |
| ebony       | 048710 | Label (MAIN/ENS/ECHO)               | 103670 |
| ivory       | 048728 |                                     |        |
| Switch Knob |        | Cork, Adhesive, 11/16 x 3           | 029157 |
| brown       | 048066 |                                     |        |
| ebony       | 048074 |                                     |        |

