

## CONSOLE CONNECTOR KIT 7667 INSTALLATION INSTRUCTIONS

For use with: GULBRANSON Organ Pacemaker Series, Models 2101, 2102, 2104, 2107  
LESLIE Speaker Models 700, 710

### KIT CONTENT

|                              |        |                 |        |
|------------------------------|--------|-----------------|--------|
| Console Connector Assembly   | 068197 | Echo Control    |        |
| Cable Assembly, 9-conductor, |        | brown           | 052035 |
| 30-foot                      | 021600 | ebony           | 052043 |
| Hardware Package             | 068320 | ivory           | 052050 |
| Oiler                        | 053025 | Tremolo Control |        |
|                              |        | brown           | 043281 |
|                              |        | ebony           | 043299 |
|                              |        | ivory           | 043307 |

**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 organ back and lift the top.
2. Mount the echo and tremolo control switches on the wooden rail in front of the lower keyboard. Wood screws are provided.
3. Route the control cables under the keyboard, through the keyboard shelf and into the power supply section. If no opening is provided, drill a 1-inch-diameter hole just under the lower manual. (Use care not to damage internal components.)
4. Mount the console connector inside the organ, near the power supply.
5. Connect the echo and tremolo control plugs to their respective sockets. (A, figure 1)
6. Locate the switched AC socket on the power supply. Insert the three-way plug provided in the kit, and connect both the organ AC and the console connector AC to the three-way plug. (B)
7. Connect the black wire from the console connector to the GND terminal on the power supply. (C)
8. Locate the 15-inch main speaker; disconnect the colored wire from the signal terminal. Connect the green wire from the console connector to the colored wire detached from the speaker.\*

9. Connect the white wire from the console connector to the signal terminal of the main speaker.
10. Connect the brown wire from the console connector to the ground terminal of the main speaker.
11. Locate a 2-lug terminal strip on the back of the tremolo unit. Disconnect the red wire from this terminal strip. (The wire comes from the amplifier.)
12. Connect the red wire from the console connector to the red wire just disconnected.\*
13. Connect the orange wire from the console connector to the terminal strip contact vacated when the red wire was removed.
14. Disconnect the black wire from this same terminal strip.
15. Connect the gray wire from the console connector to the black wire just disconnected.\*
16. Connect the violet wire from the console connector to the terminal strip contact vacated when the black wire was removed.
17. Connect the speaker cable between the LESLIE speaker and the socket labeled TO LESLIE SPEAKER on the console connector.
18. Adjust the LESLIE speaker volume according to the label on the speaker or as instructed in the service manual.

\*Use plastic sleeving to cover the connection.

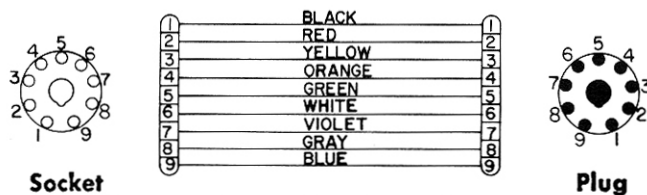


Figure 1. Cable Diagram  
(Plug and socket viewed from wire end)

#### 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 |

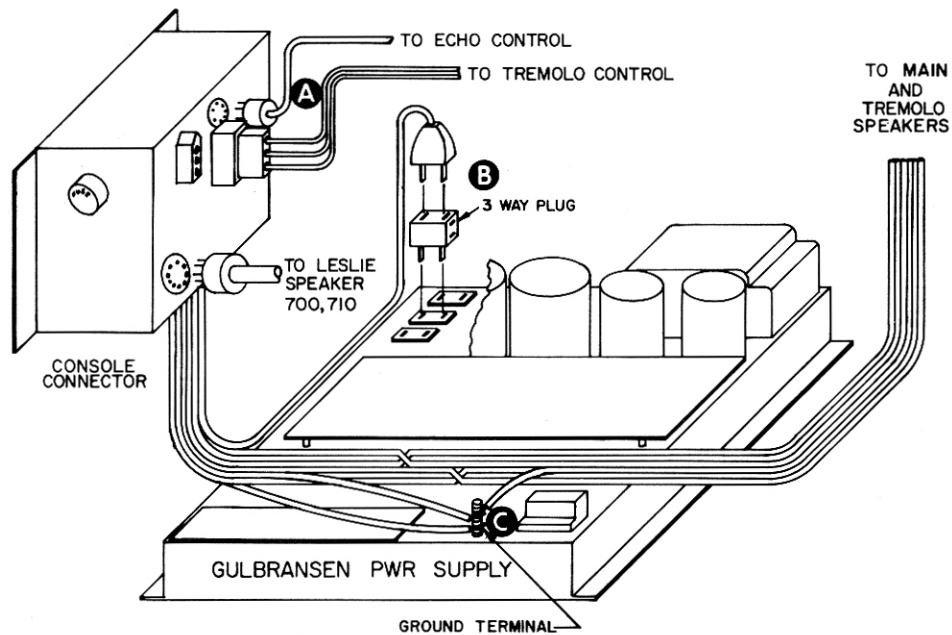


Figure 2. Installation

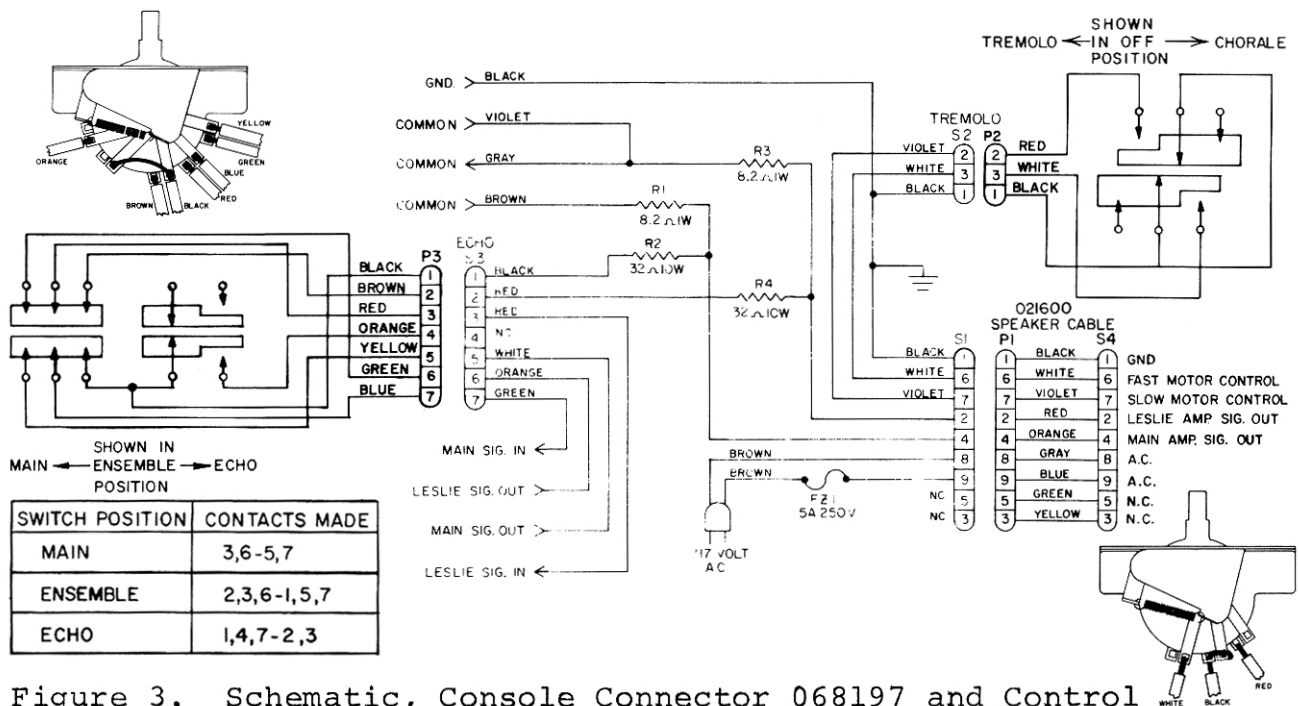


Figure 3. Schematic, Console Connector 068197 and Control

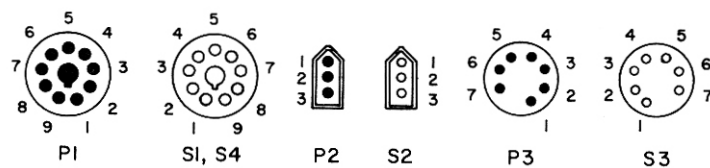


Figure 4. Plugs and Sockets  
(Viewed from wire end)

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: 068197 CONSOLE CONNECTOR ASSEMBLY

|                                          |        |
|------------------------------------------|--------|
| Housing, socket, 3-circuit, natural (S2) | 042077 |
| Contact, insert, female                  | 023556 |
| Socket, 9-contact (S1)                   | 061713 |
| Socket, 7-contact (S3)                   | 025205 |
| Fuse Holder                              | 055178 |
| Fuse, 5-amp 250V                         | 029280 |
| Cable With Plug, AC, brown               | 029785 |
| Connector Tab, male                      | 029371 |
| Connector Tab, female                    | 029389 |
| Lug, ring tongue, #8                     | 010447 |
| Bushing, strain relief                   | 029256 |
| Resistor, 8.2-ohm, 1W, 10% (R1, R3)      | 010124 |
| Resistor, 32-ohm, 10W, 10% (R2, R4)      | 029769 |

#### PARTS LIST: TREMOLO CONTROL

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

#### PARTS LIST: ECHO CONTROL

|              |                                  |
|--------------|----------------------------------|
| Switch Case  | Switch, Cable, & Plug            |
| brown 103750 | Assembly 029249                  |
| ebony 103760 |                                  |
| ivory 103770 | Switch Retainer (2) 048116       |
| Case Cover   | Screw, thread-cutting,           |
| brown 048702 | 6-32 x 3/8 029140                |
| ebony 048710 |                                  |
| ivory 048728 | Label, MAIN/ENSEMBLE/ECHO 103670 |
| Switch Knob  |                                  |
| brown 048066 | Cork, adhesive 029157            |
| ebony 048074 |                                  |

#### MULTIPLE SPEAKER INSTALLATION

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