

CONSOLE CONNECTOR KIT 7677 INSTALLATION INSTRUCTIONS
FOR USE WITH: GULBRANSEN Paragon Series Organs
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 rotors as well as that in the organ.

KIT CONTENT

Console Connector Assembly	101850	Echo Switch	
Hardware Package	045989	brown	101480
Screw, wood, 6 x 1/2,		ebony	101490
Phillips head (4)	029124	ivory	101500
Screw, sheet metal, 8 x 1/2,		Cable Assembly,	
Phillips head (2)	029132	9-conductor, 30-foot	021600
Staple, insulated (8)	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.

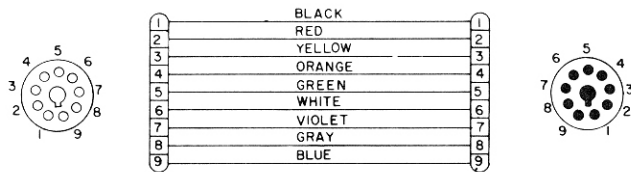
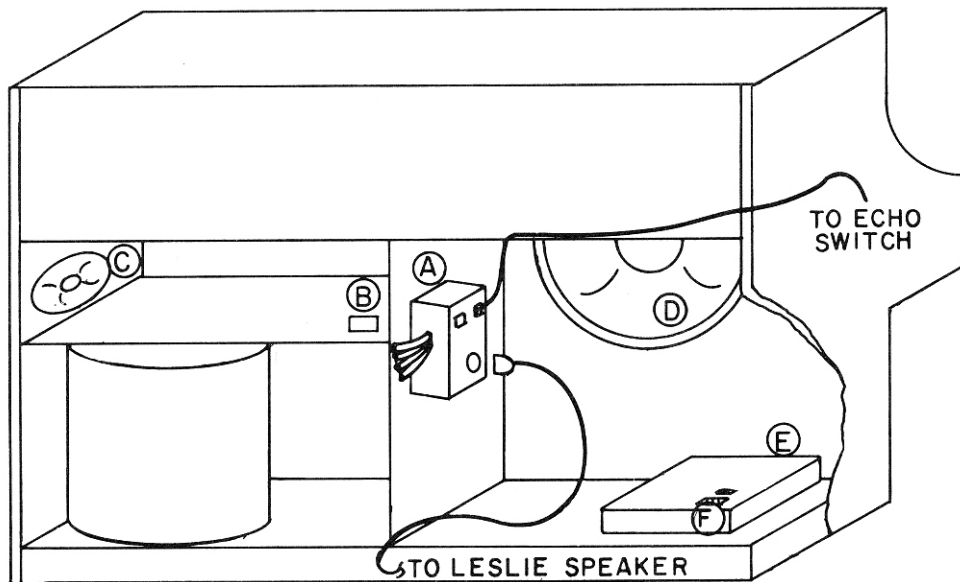
INSTALLATION

CAUTION: DISCONNECT ORGAN POWER BEFORE PROCEEDING!

1. Unfasten the four keyboard mounting screws located beneath the lower keyboard shelf. Also remove the two screws securing the upper keyboard at each side of the organ.
2. Raise the upper and lower keyboards.
3. Fasten the echo switch under the keyboard shelf, either left or right, as the organist prefers. Wood screws are provided.
4. Remove the back from the organ. Raise the top.
5. Mount the console connector on the right side of the dividing panel in the lower section of the organ. (A) Place it so that the wires are toward the back of the organ.
6. Route the echo 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.

7. Connect the plug on the control cable to the ECHO SW. socket on the console connector.
8. Remove the socket from the tremolo unit plug. (B) Insert the interceptor socket which is attached to the console connector.
9. Connect the organ socket to the plug of the interceptor.
10. On the left side of the organ back let down the circuit board panel to gain access to the 6 x 9 non-tremolo channel speaker on the left. (C)
11. Remove the green wire from the 6 x 9 speaker input terminal. Attach it to the green wire from the console connector.
12. Attach the white wire from the console connector to the speaker terminal.
13. Locate the pedal speaker; it is the large one on the right, near the power supply. (D) Disconnect the orange wire from the speaker. Attach it to the yellow wire from the console connector.
14. Attach the blue wire from the console connector to the speaker terminal.
15. On the power supply identify the ground terminal; it is at the rear and has many leads attached to it. (E) Attach the black wire from the console connector to this terminal.
16. Toward the other end of the power supply (nearer the back of the organ) are two AC sockets. The rearmost one is the switched socket. (F) Insert the AC plug from the console connector into this socket.
17. Connect the 9-conductor cable to the LESLIE speaker and to the LESLIE SPKR socket on the console connector.
18. Re-position and fasten the keyboards.
19. Lower the top of the organ.
20. Swing up and fasten the circuit board panel.
21. Re-install the organ back.

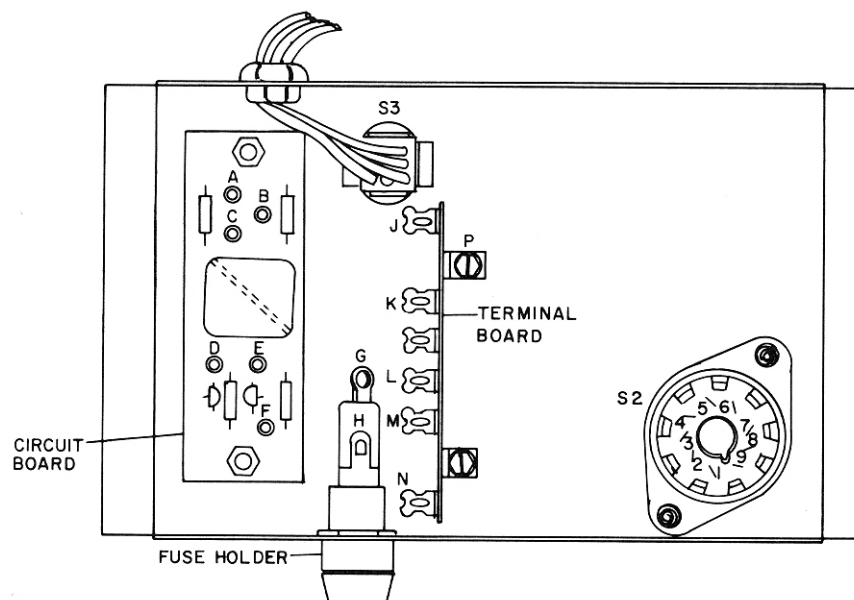
Installation is now complete.



Schematic, 021600 Cable Assembly
(Plug and Socket Shown from Wire End)

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 (4)	027979



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: 101850 CONSOLE CONNECTOR ASSEMBLY

Circuit Board Assembly	063818
Cable and Housing Assembly, socket, 9-circuit, natural (white) (includes S3)	101880
Housing, socket, 9-circuit, miniature Molex, natural (white)	101280
Contact, insert, miniature Molex, female	065581
Connector, tab, Berg, female	029389
Connector, tab, AMP, male	029371
Interceptor Assembly, 5-circuit (includes S1, P1)	101900
Cable Assembly, 117V, brown, 48-in.	019935
Can Assembly, lamp housing	063826
Resistor, 8-ohm, 1W, 10% (R7, R8)	010124
Resistor, wire-wound, 2-ohm, 10W, 10%(R9, R10, R11)	029769
Socket With Plate, 9-contact (S2)	061713
Fuse Holder	055178
Fuse, 5-amp, 250V	029280
Terminal Strip, 6-lug	058065
Bushing, strain relief	034769
Lug, spade, #8	010439

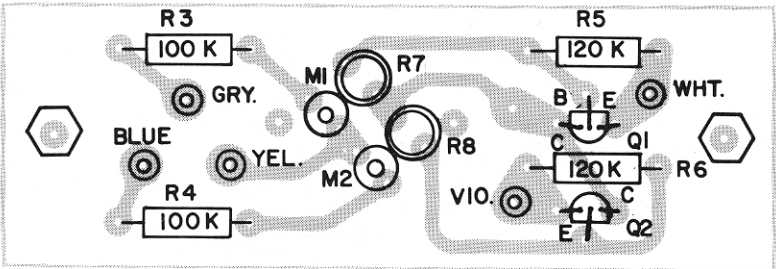
PARTS LIST: ECHO CONTROL

Switch Case		Switch, Cable, & Plug Assembly	101460
brown	103750		
ebony	103760		
ivory	103770	Switch Retainer (2)	048116
Case Cover			
brown	048702	Screw, thread-cutting, 6 x 3/8 (2)	029140
ebony	048710		
ivory	048728		
Switch Knob		Label, MAIN/ENSEMBLE/ECHO	103670
brown	048022		
ebony	048074	Cork, adhesive	029157

PARTS LIST: 063818 CIRCUIT BOARD ASSEMBLY

Lamp, neon, miniature, Ne 2 (M1, M2)	063958
Resistor, 100K, 1/2W, 10% (R1, R2)	028498
Resistor, 120K, 1/2W, 10% (R5, R6)	027078
Resistor, light-dependent, VT-904 (R3, R4)	117980
Transistor* (Q1, Q2)	026237
Etched Circuit Board	059303

*Due to critical operating qualities, this transistor is to be supplied only by the factory.



Circuit Board Assembly 063818

FROM	COLOR	TO
interceptor assy	blue	point A
interceptor assy	gray	point B
interceptor assy	yellow	point C
point D	violet	S2, pin 7
point E	black	S2, pin 1
point F	white	S2, pin 6
AC plug	brown	point G
point H	gray	S2, pin 8
point K	violet	end free
point L	orange	end free
point M	green	interceptor assy
point N	red	end free
point P	black	S2, pin 1
point P	black	end free
S3, pin 5	orange	interceptor assy
S3, pin 7	red	interceptor assy
AC plug	brown	S2, pin 9

