

CONSOLE CONNECTOR KIT 7678 INSTALLATION INSTRUCTIONS
FOR USE WITH: LOWREY Organ Models GA, GA-25, GAK, GAK-25, GAKH, GA25KH
LESLIE Speaker Models 700, 710

KIT CONTENT

Console Connector Assembly	101530	Echo Control	
Hardware Package	065995	brown	042200
Cable Assembly, 9-conductor,		ebony	042218
30-foot	021600	ivory	042226
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 person authorized by the dealer or factory to perform such work.

INSTALLATION

CAUTION: DISCONNECT ORGAN POWER BEFORE PROCEEDING!

1. Remove the organ back. Locate the double layer circuit boards below the large speaker in the cabinet
2. Mount the console connector on the bottom of the organ, beneath the twin layer circuit boards. Make certain that the console connector interceptors will reach the points indicated on figure 1.
3. Mount the echo control beneath the lower keyboard; use the two black oxide screws supplied in the hardware package.
4. Route the echo control cable under the lower keyboard, through the keyboard shelf, and into the rear compartment. If no opening is provided, drill a 1-inch-diameter hole in the underside of the keyboard, taking care that no internal component is damaged. Use the insulated staples provided to fasten the cable to the organ.
5. Insert the plug from the echo control into the 7-contact console connector socket. (A, figure 1)

LESLIE SPEAKER CHANNEL INTERCEPTION:

6. Insert the amphenol-type console connector plug into the LESLIE 45A OR 47 socket on the organ amplifier. (B)

MAIN CHANNEL INTERCEPTION:

7. Locate and disconnect the second AMP plug on top of the organ amplifier. (C) Replace it with the yellow AMP plug on the console connector interceptor.

8. Connect the plug detached in step 7 to the socket of this interceptor.

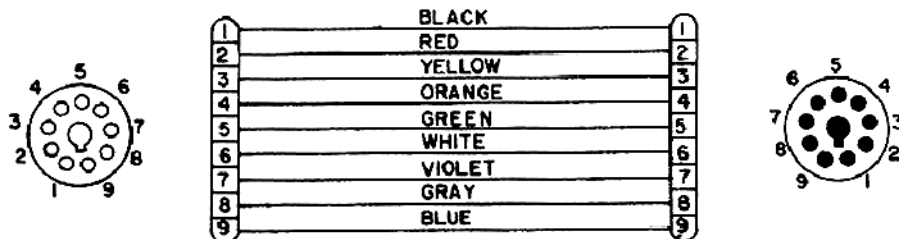
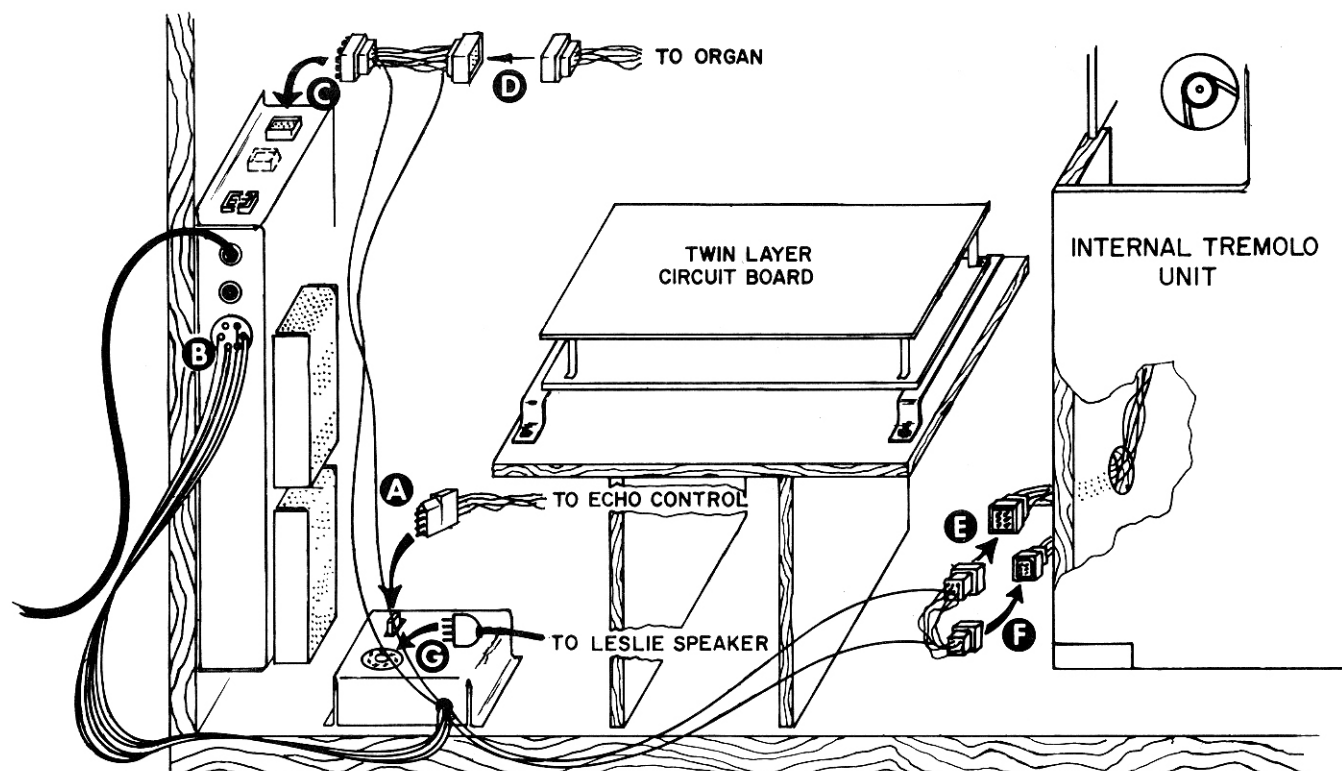
MOTOR CONTROL INTERCEPTION:

9. Disconnect the socket from the internal tremolo unit plug. Replace it with the white socket of the console connector interceptor. (E)

10. Fit the Lowrey tremolo unit socket previously detached onto the white plug of the console connector interceptor. (F) (This intercepts AC for speaker power and slow and fast motor circuits.)

SPEAKER CABLE CONNECTION, VOLUME CONTROL ADJUSTMENT:

11. Connect the speaker cable to the LESLIE speaker and to the console connector. (G) Adjust the speaker volume according to its VOLUME CONTROL ADJUSTMENT label or the owner's manual. Installation is complete.



(Plug and Socket Shown from Wire End)

PARTS LIST; 021600 CABLE ASSEMBLY

Plug Assembly, 9-pin	061879
Socket, 9-contact	028837
Cap Body, right	130000
Cap Body, left	130010
Screw, sheet metal, 4 x 1/2, hex washer head	136360

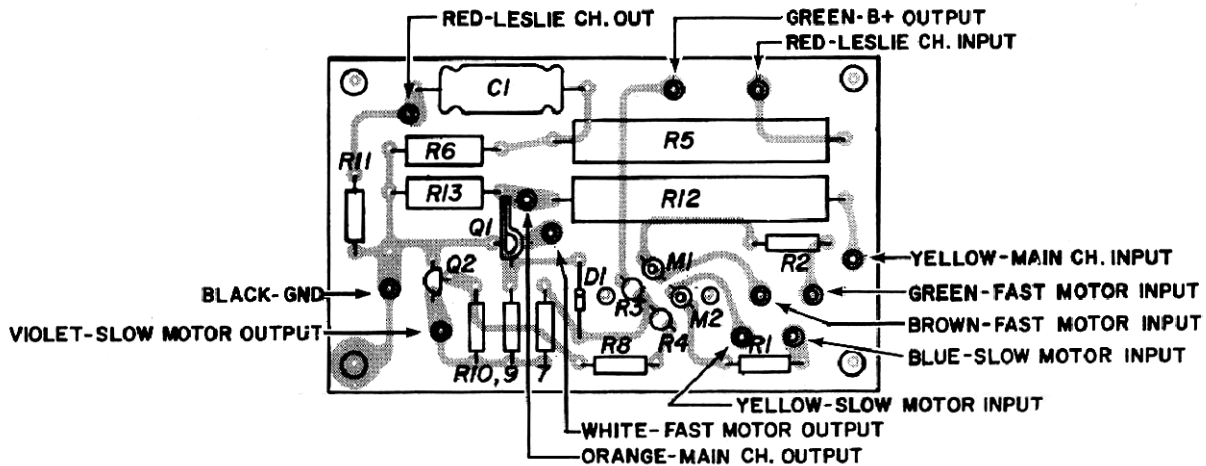


Figure 2. Circuit Board Assembly 101560

REF. DESIG.	DESCRIPTION	PART NO.
C1	Capacitor, 20 mfd, 50V	057679
D1	Rectifier, silicon, 30 PIV, 50MW	041616
M1,2	Lamp, miniature, Neon-Ne2	063958
Q1	Transistor, PNP, TZ525	033571
Q2	Transistor, NPN, MSPS 4382	026237
R1,2	Resistor, 100K, 1/2W, 10%	028498
R3,4	Resistor, light-dependent, VT-904	117980
R5	Resistor, wire-wound, 32-ohm, 10W, 10%	029769
R6	Resistor, 8.2-ohm, 1W, 10%	010124
R7	Resistor, 4.7-mehohm, 1/2W, 10%	013623
R8	Resistor, 56K, 1/2W, 10%	024133
R9	Resistor, 220K, 1/2W, 10%	013615
R10	Resistor, 15K, 1/2W, 10%	048157
R11	Resistor, 100-ohm, 1/2W, 10%	028399
R12	Resistor, wire-wound, 32-ohm, 10W, 10%	029769
R13	Resistor, 8.2-ohm, 1W, 10%	010124
	Etched Circuit Board	069351

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: 101530 CONSOLE CONNECTOR ASSEMBLY

Circuit Board Assembly	101560
Cable & Plug Assembly, 35-in.	101580
Plug, 6-pin (P1)	061721
Interceptor Assembly, 28-in., natural (white)	101600
Housing, plug, Amp, 6-circuit, natural (white) (P4)	056929
Contact, insert, Amp Inline, male	010421
Housing, socket, Amp, 6-circuit, natural (white) (S3)	069823
Contact, insert, Amp Inline, female	010397
Interceptor Assembly, 24-in., yellow	101620
Housing, plug, Amp, 6-circuit, yellow (P5)	101730
Contact, insert, Amp Inline, male	010421
Housing, socket, Amp, 6-circuit, yellow (S6)	101720
Contact, insert, Amp- Inline, female	010397
Housing, socket, Molex, 4-circuit, natural (white)(S2)	042093
Contact, insert, Molex, female	023556
Socket with Mounting Plate, 9-contact (S7)	061713
Can Assembly, lamp housing	063826
Bushing, .196 x .312 x .625	055079
Bushing, strain relief	037986

PARTS LIST: ECHO CONTROL

Switch Case		Switch, Cable, & Plug Assembly	
brown	103750		042192
ebony	103760		
ivory	103770	Switch Retainer (2)	048116
Case Cover			
brown	048702	Screw, thread-cutting, 6-32 x 3/8 .	029140
ebony	048710		
ivory	048728		
Switch Knob		Label, MAIN/ENSEMBLE/ECHO	103670
brown	048066		
ebony	048074	Cork, adhesive	029157

MULTIPLE SPEAKER INSTALLATION

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

LESLIE SPEAKER CONTROLS

The LESLIE Speaker Model 700 is controlled in this installation by the organ console tabs and console connector echo switch pictured below. While this switching chart is by no means inclusive it does provide switching instructions for obtaining many musical effects from the Model 700. The MULTI-CHANNEL CHORUS tab is unique. By switching this tab on and switching the "LESLIE" tab and echo switch so as to direct one organ channel through the Lowrey internal speakers and the other organ channel through the Model 700, an exciting stereo effect is created. See MULTI-CHANNEL CHORUS EFFECTS on the chart below for switching instructions.

LOWREY CONSOLE TABS							CONSOLE CONNECTOR ECHO CONTROL
	ADD MAIN TO LESLIE	MAIN FLUTE LESLIE	MAIN REED STRING LESLIE	OFF LESLIE TREM ON	OFF MULTI CHANNEL CHORUS ON	INT LESLIE EXT	ENS MAIN ECHO
EFFECT	1	2	3	4	5	6	A
ALL VOICES TO ORGAN SPEAKERS		LESLIE	MAIN	OFF OR ON	OFF	INT	MAIN
FLUTE VOICES TO 700 STATION- ARY CHANNEL		MAIN	LESLIE	OFF OR ON	OFF	INT	ENSEMBLE/ ECHO
REED/STRING VOICES TO 700 ROTARY CHANNEL		MAIN	LESLIE	OFF OR ON	OFF	EXT	ENSEMBLE/ ECHO
FLUTE VOICES TO 700 ROTARY CH.		LESLIE	MAIN	OFF OR ON	OFF	EXT	ENSEMBLE/ ECHO
REED/STRING VOICES TO 700 STATIONARY CH.		LESLIE	MAIN	OFF OR ON	OFF	INT OR EXT	ENSEMBLE/ ECHO
MIXED VOICES TO BOTH 700 CH.'s	ADD	LESLIE OR MAIN	LESLIE OR MAIN	OFF OR ON	OFF	EXT	ENSEMBLE/ ECHO
MULTI-CHANNEL CHORUS EFFECT #1		LESLIE OR MAIN	LESLIE OR MAIN	OFF OR ON	ON	EXT	MAIN
MULTI-CHANNEL CHORUS EFFECT #2		MAIN	LESLIE	OFF OR ON	ON	INT	ENSEMBLE/ ECHO
700 ROTOR-FAST CONSOLE ROTOR- FAST				ON	OFF OR ON	INT	ENSEMBLE/ ECHO
700 ROTOR-SLOW CONSOLE ROTOR- SLOW				OFF	ON	INT	ENSEMBLE/ ECHO
700 ROTOR-OFF CONSOLE ROTOR- OFF				OFF	OFF	INT	ENSEMBLE/ ECHO
700 ROTOR-FAST CONSOLE ROTOR- OFF				ON	OFF	EXT	ENSEMBLE/ ECHO

