

CONSOLE CONNECTOR KIT 7406 INSTALLATION INSTRUCTIONS

FOR USE WITH: LOWREY Organ Model H-25-3R
LESLIE Speaker Model 600

KIT CONTENT

Console Connector Assembly	134880	Echo Control	
Cable Assembly, 9-conductor,		brown	052035
30-foot	021600	ebony	052043
oiler	053025	ivory	052050
Hardware Package	039172	Tremolo Control	
Screw, sheet metal, 8 x 1/2,		brown	069880
Phillips head (2)	029132	ebony	069898
Screw, wood, 6 x 1/2,		ivory	069906
Phillips head (6)	029124	Multi-rank Control	
Staple, insulated (12)	028464	brown	069948
		ebony	069955
		ivory	069963

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. Mount the echo, tremolo, and multi-rank switches under the keyboard shelf, either left or right, as the organist prefers. Wood screws are provided.
2. Under the keyboard shelf, at the left, locate a metal plate fastened with four screws. Loosen this plate and route the control cables through the hole, into the organ interior.
3. Remove the back from the organ.
4. On the organ power supply locate the ECHO FOR LESLIE 45A OR 47A socket (figure 1). Connect the 6-contact plug (P4) from the console connector to this socket.
5. Mount the console connector on the floor of the organ (location 1) or beside the swell control assembly (location 2).
6. On the power supply locate the lower white plug nearest you (that is, at the extreme back of the organ); it is the only

- 9-circuit plug in the group. Disconnect this plug and connect it to the 9-contact socket of the interceptor from the console connector.
7. Connect the interceptor plug to the socket on the power supply.
 8. At the built-in tremolo unit disconnect the white plug and socket in the line to the tremolo. Insert the 6-connector interceptor from the console connector.
 9. Connect the echo, tremolo, and multi-rank control plugs to their respective sockets on the console connector.
 10. Connect the 9-conductor cable assembly from the console connector kit between the console connector and the LESLIE model 600 speaker.
 11. Test the kit operation by setting one group of organ tabs in conjunction with LESLIE speaker control switches as described in the switching chart on page. Many combinations are possible, and each produces its own distinctive sound.
 12. When correct operation has been confirmed, replace the organ back.

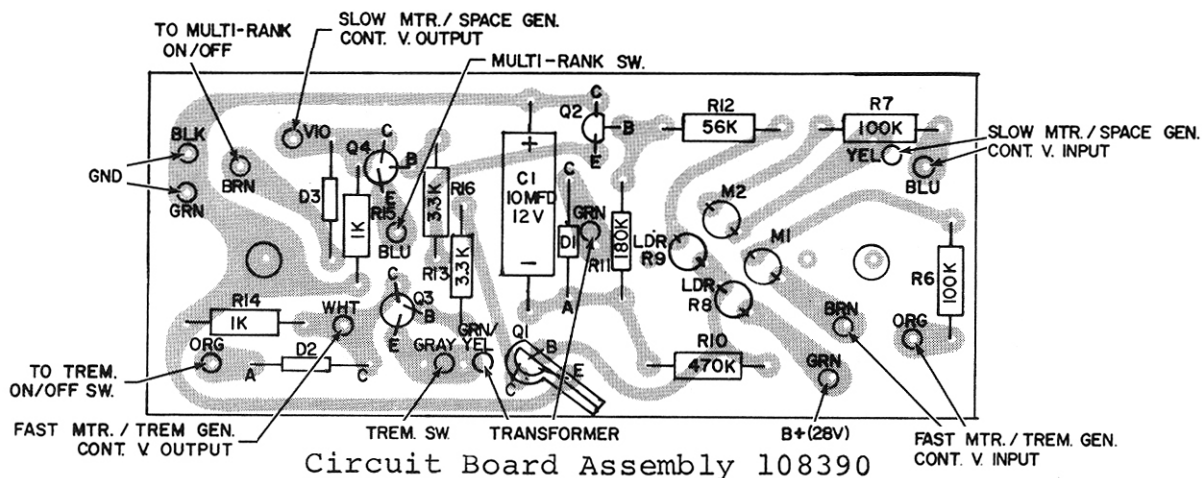
WIRING*

<u>FROM</u>	<u>COLOR</u>	<u>TO</u>	<u>FROM</u>	<u>COLOR</u>	<u>TO</u>
point A	orange	P4, pin 5	S7, pin 1	yellow	Strip 2, A
point B	green	S3, pin 5	S7, pin 2	orange	strip 2, C
point C	brown	P4, pin 2	S7, pin 3	green	S1, pin 6
point D	blue	P5, S6, pin 2	S7, pin 5	black	P2, pin 5
point E	yellow	P5, S6, pin 5	S7, pin 6	white	P2, pin 6
point H	gray	strip 1	S7, pin 7	blue	S1, pin 5
point J	blue	strip 1	S8, pin 3	gray	strip 1
point K	white	S3, pin 6	S9, pin 3	gray	strip 1
point L	orange	S8, pin 2	transformer	green	point F
point M	violet	S3, pin 7	transformer	green/yellow	point G
point N	brown	S9, pin 2	transformer	green	point P
point R	black	S3, pin 1	transformer	black	S3, pin 8
S3, pin 1	black	ground lug	transformer	black	S3, pin 9
S3, pin 1	black	P4, pin 1	strip 2, C	R1	S3, pin 4
S3, pin 2	red	P4, pin 6	strip 2, A	R2	S3, pin 3
S3, pin 8	blue	P4, pin 4	strip 2, B	R3	S3, pin 3
S3, pin 9	gray	P4, pin 3	strip 2, B	R4	S3, pin 4
			strip 2, B	R5	S3, pin 2

*strip 1 refers to the 1-lug terminal strip
strip 2 refers to the 2-lug terminal strip

PARTS LIST: 134880 CONSOLE CONNECTOR ASSEMBLY

Circuit Board Assembly, motor sensing	108390
Interceptor Assembly, 6-circuit	134930
Housing, plug, 6-circuit, natural, (white) (P5)	056929
Contact, insert, Inline, male	010421
Housing, socket, 6-contact, natural, (white) (S6)	069823
Contact, insert, Inline, female	010397
Interceptor Assembly, 9-circuit	134890
Housing, plug, 9-circuit, natural, (white) (P2)	134950
Contact, insert, Inline, male	010421
Housing, socket, 9-circuit, natural, (white) (S1)	134940
Contact, insert, Inline, female	010397
Cable and Plug Assembly, 6-circuit (includes P4)	108440
Transformer	022244
Socket, 7-contact (S7)	029306
Socket, 9-contact (S3)	061713
Housing, socket, 3-circuit, natural, (white) (S8)	042077
Housing, socket, 3-circuit, red (S9)	043265
Contact, insert, female	023556
Resistor, 8.2-ohm, 1W, 10% (R3, R4)	010124
Resistor, 100-ohm, 1/2W, 10% (R5)	028399
Resistor, wire-wound, 32-ohm, 10W, 10% (R1, R2)	029769
Bushing, strain relief	034769



PARTS LIST: 108390 CIRCUIT BOARD ASSEMBLY

C1	Capacitor, electrolytic, 10mfd, 12V	028415
D1	Diode, 100 PIV, 1-amp	021154
D2, D3	Diode, 30 PIV, 500 MW	041616
M1, M2	Lamp, neon, NE2E	063958
Q1	Transistor, PNP, TZ525	033571
Q2	Transistor, NPN	026237*
Q3, Q4	Transistor, NPN, 2N3414	030254
R6, R7	Resistor, 100K, 1/2W, 10%	028498
R8, R9	Resistor, LDR, VT-904	117980
R10	Resistor, 470K, 1/2W, 10%	018002
R11	Resistor, 180K, 1/2W, 10%	059270
R12	Resistor, 56K, 1/2W, 10%	024133
R13	Resistor, 3.3K, 1/2W, 10%	024141
R14, R15	Resistor, 1K, 1/2W, 10%	023713
R16	Resistor, 3.3K, 1/2W, 10%	024141
	Etched Circuit Board	107900

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

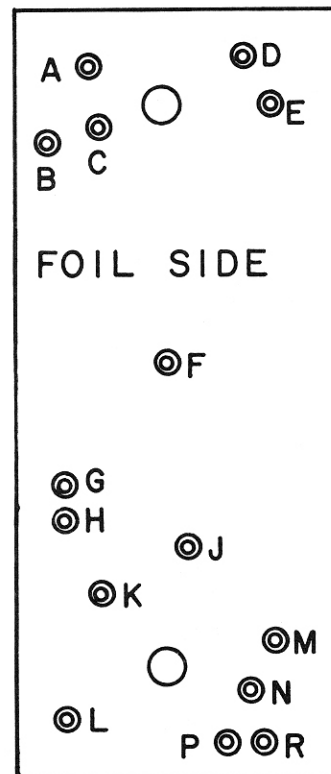
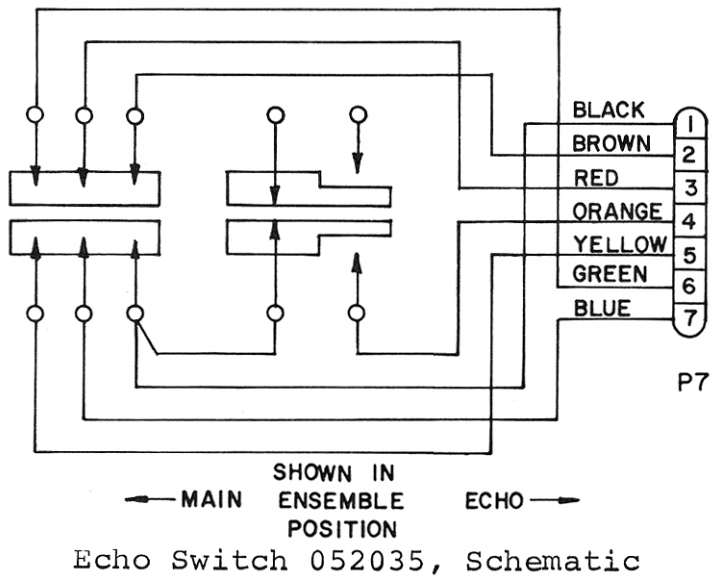
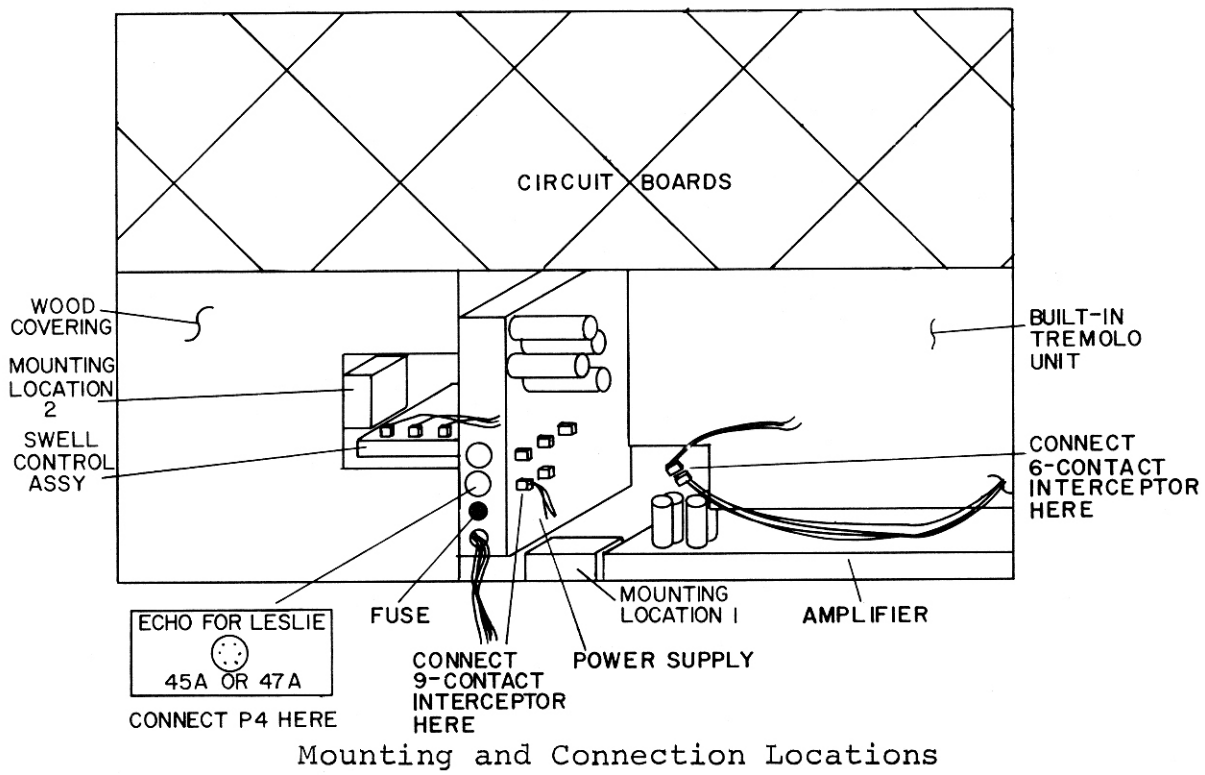
PARTS LIST: 021600 CABLE ASSEMBLY

 (View From Wire End)	1 BLACK	1	Plug Assembly, 9-pin	061879
	2 RED	2		
	3 YELLOW	3	Socket, 9-contact	028837
	4 ORANGE	4	Cap Body, right	130000
	5 GREEN	5	Cap Body, left	130010
	6 WHITE	6		
	7 VIOLET	7	Screw, sheet metal, 4 x 1/2,	
	8 GRAY	8	hex washer head	136360
	9 BLUE	9		

The over-all sound effect created by the united operation of the organ and the LESLIE speaker is varied by the settings of the organ tabs and the controls installed with this kit. The chart below shows some of the combinations and the effects they produce. Many other combinations are possible; experiment!

The MULTI-CHANNEL CHORUS tab is unique in that it permits the playing of one organ channel through the LOWREY organ's internal speakers and the other channel through the LESLIE speaker, creating a stereo effect.

(see function chart, page 6)



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: ECHO CONTROL

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

PARTS LIST: TREMOLO CONTROL

Switch Case		Switch, Cable, & Plug	
brown	103750	Assembly	042150
ebony	103760		
ivory	103770	Switch Retainer (2)	048744
Case Cover			
brown	048702	Screw, thread-cutting,	
ebony	048710	6-32 x 3/8 (2)	029140
ivory	048728		
Switch Knob		Label, OFF/TREMOLO/ON	103690
brown	048066		
ebony	048074	Cork, adhesive	029157

PARTS LIST: MULTI-RANK CONTROL

Switch Case		Switch, Cable, & Plug	
brown	103750	Assembly	069877
ebony	103760		
ivory	103770	Switch Retainer (2)	048116
Case Cover			
brown	048702	Screw, thread-cutting,	
ebony	048710	6-32 x 3/8 (2)	029140
ivory	048728		
Switch Knob		Label, OFF/MULTI-RANK/ON	103700
brown	048066		
ebony	048074	Cork, adhesive	029157

MULTIPLE SPEAKER INSTALLATION

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

LOWREY CONSOLE TABS							CONSOLE CONNECTOR CONTROLS		
	ADD MAIN TO LESLIE	MAIN TIBIA LESLIE	MAIN REED/ STRING DIAP'N LESLIE	OFF LESLIE TREM ON	OFF MULTI- CHANNEL CHORUS ON	INT LESLIE EXT			

EFFECT

ALL VOICES TO ORGAN SPEAKERS		LESLIE	MAIN	ON OR OFF	OFF	INT	MAIN	OFF	OFF
TIBIA VOICES TO 600 STATIONARY CHANNEL		MAIN	LESLIE	ON OR OFF	OFF	INT	ENSEMBLE /ECHO	ON/OFF	ON/OFF
REED/STRING VOICES TO 600 ROTARY CHANNEL		MAIN	LESLIE	ON OR OFF	OFF	EXT	ENSEMBLE /ECHO	ON/OFF	ON/OFF
TIBIA VOICES TO 600 ROTARY CHANNEL		LESLIE	MAIN	ON OR OFF	OFF	EXT	ENSEMBLE /ECHO	ON/OFF	ON/OFF
REED/STRING VOICES TO 600 STATIONARY CHANNEL		LESLIE	MAIN	ON OR OFF	OFF	EXT OR INT	ENSEMBLE /ECHO	ON/OFF	ON/OFF
MIXED VOICES TO ALL 600 CHANNELS	ADD	LESLIE	MAIN	ON OR OFF	OFF	EXT	ENSEMBLE /ECHO	ON/OFF	ON/OFF
MULTI-CHORUS EFFECT NO.1		LESLIE OR MAIN	ON OR OFF	ON	EXT	MAIN	ON/OFF	ON/OFF	
MULTI-CHORUS EFFECT NO.2		MAIN	LESLIE	ON OR OFF	ON	INT	ENSEMBLE / ECHO	ON/OFF	ON/OFF
600 ROTORS - FAST ORGAN ROTOR - FAST				ON	ON OR OFF	EXT	ENSEMBLE /ECHO	ON/OFF	ON/OFF
600 ROTORS - SLOW ORGAN ROTOR - SLOW				OFF	ON	INT	ENSEMBLE /ECHO	ON/OFF	ON/OFF
600 ROTORS - OFF ORGAN ROTOR - OFF				OFF	OFF	EXT	ENSEMBLE /ECHO	ON/OFF	ON/OFF
600 ROTORS - FAST ORGAN ROTOR - SLOW				ON	ON	EXT	MAIN	ON/OFF	ON/OFF