

CONSOLE CONNECTOR KIT 7512 INSTALLATION INSTRUCTIONS
 FOR USE WITH: LOWREY Organ Models: GA25KH
 LESLIE Speaker Models: 102, 103

This kit provides interconnections between Lowrey Organ Model GA25KH and Leslie Speaker Models 102 and 103. Both operate from the organ's main signal. Model 102 is controlled from tabs on the organ manual. Model 103 is controlled through the switches furnished in the kit. (These switches are to be mounted on the organ.) The three switches provide the following operations:

INT/ENS/EXT Switch (3 positions)

- INT (internal): The organ's main signal is routed to the speaker within the organ console.
- EXT (external): The organ's main signal is routed to LESLIE Speaker Model 103.
- ENS (ensemble): The organ's main signal is routed to both the organ speaker and the LESLIE speaker.

MULTI-RANK Switch (2 positions: ON and OFF)
 ON/TREM/OFF switch (2 positions: ON and OFF)

These two switches combine to operate the model 103 circuits in four different ways, as described below. For the sake of brevity, the MULTI-RANK switch is referred to as MULTI and the the ON/TREM/OFF Switch is referred to as TREMOLO.

- MULTI OFF, TREMOLO OFF - Signal to stationary speakers only.
- MULTI ON, TREMOLO OFF - Signal to stationary speakers. Signal to upper rotor speakers; rotor turning at slow speed.
- MULTI OFF, TREMOLO ON - Signal to lower rotor speakers only; rotor turning at fast speed.
- MULTI ON, TREMOLO ON - Signal to rotors only (not to stationary speakers). Both upper and lower rotor turning at fast speed.

KIT CONTENT

Console Connector Assembly	110530	Switch Assembly, multi-rank	
Cable Assembly, 30-ft,9-conductor (2)	021600	brown	010546
		ebony	010553
		ivory	010561
Oiler	053025		
Screw,sheet metal, #8 x 1/2, Phillips head(2)	029132	Switch Assembly ON/TREM/OFF	
Screw, wood, #6 x 3/4, Phillips head (7)	032086	brown	029553
		ebony	029561
		ivory	029579
Staple, insulated (10)	028464	Switch Assembly INT/ENS/EXT	
Installation Instructions	110580	brown	010579
		ebony	010587
		ivory	010595

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!

NOTE: The ON/TREM/OFF switch will be called the tremolo switch and the INT/ENS/EXT switch will be called the echo switch.

1. Mount the echo, tremolo, and multi-rank switches on the wooden rail in front of the lower manual, using the wood screws provided.
2. Open the back and the top of the organ.
3. Loosen the plate on the underneath left side of the keybed. (The plate will not come entirely free, as wires are connected to the components mounted on it.)
4. Insert the plug ends of the control cables through the opening and route them through the organ wiring to the back.
5. Mount the console connector chassis on the floor of the organ, near the amplifier/power supply chassis (left, as you see it).
6. Connect the control cables from the switches which are mounted on the organ to the sockets on the console connector. Each socket is identified.
7. Locate socket B on the top of the amplifier/power supply chassis (each socket is labeled). Remove the plug from this socket.
8. Insert plug P2 of the interceptor assembly into this socket. Connect the plug which was removed to the socket end of the interceptor assembly.
9. Connect plug P1 (6 contacts) of the console connector to the socket labeled LESLIE 45A or 47, on the side of the amplifier/power supply chassis.
10. Locate the 15-inch speaker directly in the middle of the lower frame (front of the organ). The dotted terminal has two wires attached to it: red and blue. Remove the blue wire. Connect the green wire from the console connector to this terminal. Insulate the end of the blue wire and fasten it out of the way.
11. Connect one of the 9-contact cables between the 102 socket on the console connector and Leslie Speaker Model 102.
12. Connect the other 9-contact cable between the 103 socket on the console connector and Leslie Speaker Model 103.

13. Adjust the volume on the LESLIE speakers as described in their respective manuals.

14. Close the back and top of the organ. Fasten the plate under the keyboard. (Leave one side slightly loose, where wires go through.)

INSTALLATION IS NOW COMPLETE.

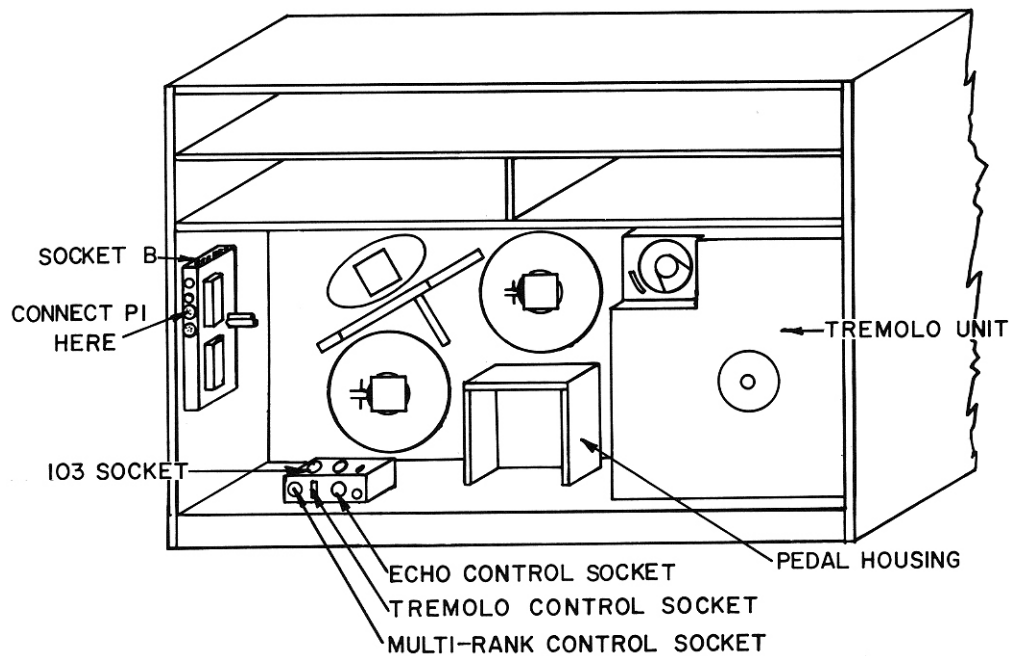


Figure 1. Interconnection Locations

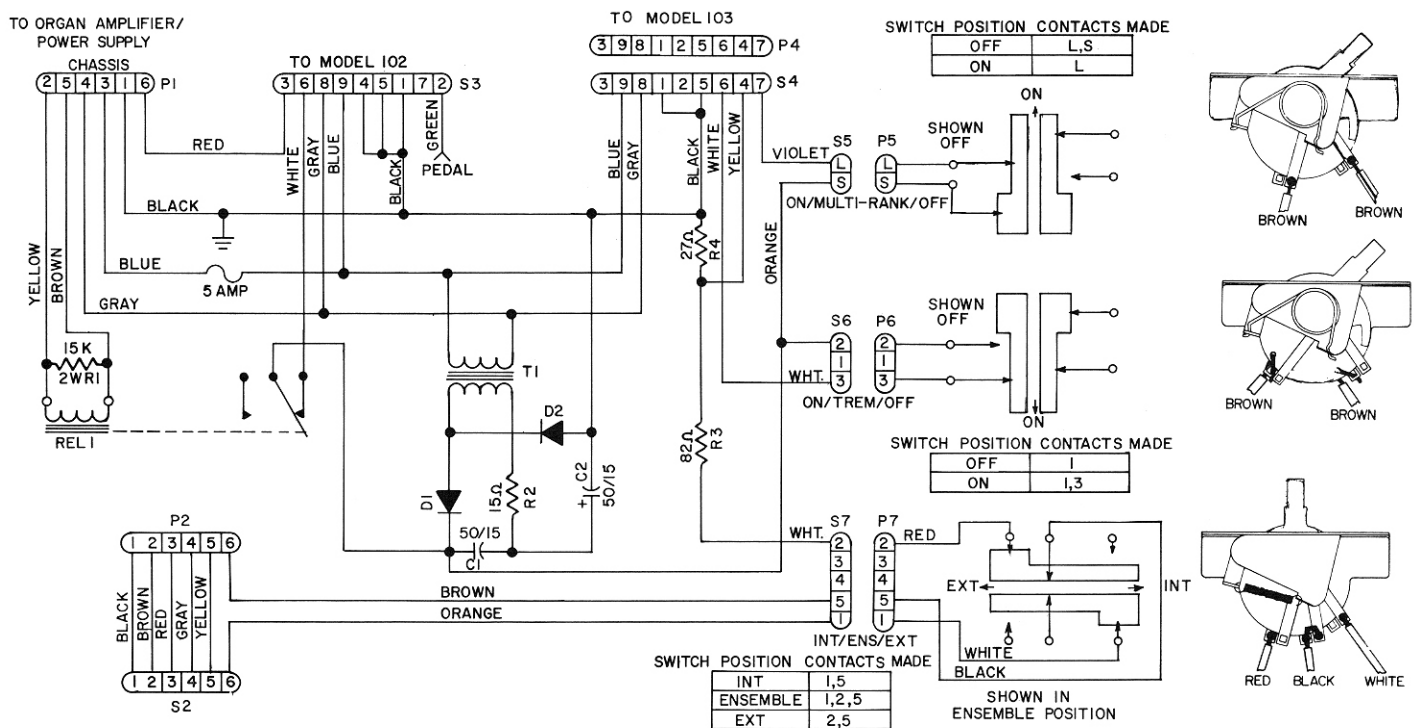


Figure 2. Schematic, 110530 Console Connector Assembly With Controls

PARTS LIST: 037432 RECTIFIER ASSEMBLY

Item No.	Description	Part No.
1	Resistor, 82-ohm, 1/2-W, 10% (R3)	021261
2	Capacitor, electrolytic, 50-mfd, 15-volt (C1,C2)	028324
3	Resistor, 27-ohm, 1/2-W, 10% (R4)	021253
4	Diode, 100-PIV, 1-amp (D1,D2)	021154
5	Resistor, 15-ohm, 1/2-W, 10% (R2)	018051
6	Circuit Board, fiber	055731

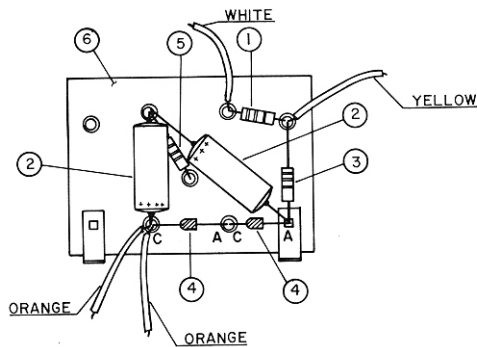


Figure 3. Parts and Wiring,
037432 Rectifier Assembly

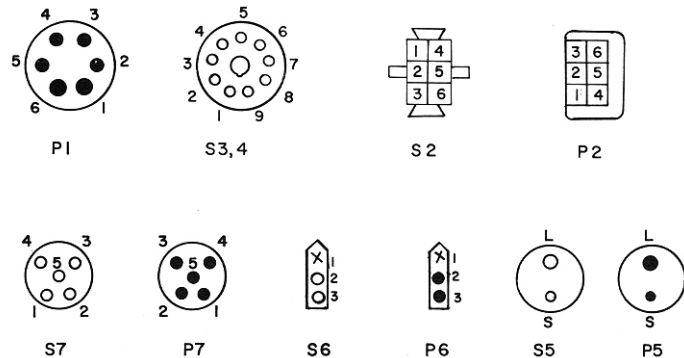


Figure 4. Plug and Socket Base
Diagram (View From Wire End)

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.

PARTS LIST: 110530 CONSOLE CONNECTOR ASSEMBLY

Rectifier Circuit Assembly	037432
Screw, sheet metal, #6 x 1/4, Phillips head (2)	060533
Interceptor Assembly (includes S2, P2)	110540
Cable and Plug Assembly (includes P1)	037481
Chassis	107250
Housing, socket, 3-circuit, red (S6)	043265
Socket, 2-contact (S5)	029298
Screw, sheet metal, #8 x 1/4, Phillips head (2)	025635
Socket, 5-contact (S7)	029652
Screw, sheet metal, #6 x 1/4, Phillips head (2)	060533
Socket, 9-contact (S3, S4)	061713
Screw, sheet metal, #12 x 3/8, Phillips head (4)	029314
Fuseholder	055178
Fuse, 5-amp, 250-volt	029280
Relay, SPDT, 115-volt, 50/60-Hz	027649
Resistor, 15K, 2W, 10% (R1)	021592
Grommet	028811
Bushing, .196 x .312 x .325	051060
Washer, LWDO, 6 x 9/16 x .025	026898
Screw, machine, 6-32 x 5/8	028001
Transformer, filament, 115-volt, 60-Hz	022244
Screw, sheet metal, #6 x 1/4, Phillips head (2)	060533

PARTS LIST: 110540 INTERCEPTOR ASSEMBLY

Housing, plug, 6-circuit, natural (white),

Amphenol

056929

Contact, insert, male

010421

Housing, socket, 6-circuit, natural (white),

Amphenol

069823

Contact, insert, female

010397

MULTIPLE SPEAKER INSTALLATION

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