



CONSOLE CONNECTOR KIT 7031

INSTALLATION INSTRUCTIONS

FOR USE WITH: Many dual-channel organs
LESLIE Speaker Set Models 60, 70

KIT CONTENT

Control Assembly	128260
Hardware Package	128320
Installation Instructions	128300

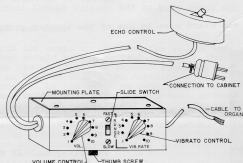


Figure 1. Control Assembly 128260

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.

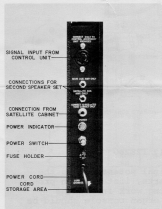
INSTALLATION

1. Separate the control case from its mounting plate by turning the black thumb screw (figure 1) on the bottom of the case.
2. Using the screws provided, fasten the plate under the keyboard shelf, on the bass side of the organ. Then align the control case with the mounting plate and tighten the thumb screw.
3. Connect the 5-prong plug to the socket on the back of the LESLIE speaker main cabinet labeled SIGNAL INPUT FROM CONTROL UNIT (figure 2).

4. Fasten the echo switch to the organ, on the keybed of the lower manual. (Screws are provided in the kit.)

CAUTION: DISCONNECT ORGAN POWER BEFORE PROCEEDING!

5. Route the gray cable (with protruding bare wires) through the keybed and to the rear of the organ. If no opening is provided, drill a 1-inch diameter hole, being careful not to damage internal components.
6. Disconnect the signal lead from the left speaker (i.e., the lead from the amplifier). Connect the blue wire from the control to this lead.
7. Connect the yellow wire to the speaker signal terminal.
8. Disconnect the signal lead from the right speaker. Connect the red wire to this lead.
9. Connect the green wire to the speaker signal terminal.
10. Connect the black wire to one of the speaker grounds.



ECHO SWITCH

The echo switch permits the organist to control which speakers produce sound: the organ speakers, the LESLIE speakers, or both.

Switching to MAIN cuts off the LESLIE speakers, and sound comes only from those within the organ. ECHO permits only the LESLIE speakers to sound; ENSEMBLE plays all speakers simultaneously. (In ECHO position both the main and satellite cabinets sound.)

Figure 2. Rear of Main Cabinet, Showing Connections

SOUND CONTROL

On the control case are two knobs and a slide switch. The left-hand knob controls the volume of the output. The other two items control the vibrato. The slide switch selects a range, either FAST or SLOW, and the knob setting determines the amount of vibrato within the limits of the range selected. Turning either knob completely counter-clockwise sets the control to its off position. The farther clockwise the knob is turned the greater the volume or the greater the rate of tremolo which the system will produce.

When the tremolo knob is set for off (fully counter-clockwise) the sound heard will be the tones produced by the organ. Moving the control to the first operational setting produces a beautiful chorus effect, which is one of the notable effects this equipment can achieve. Other settings give the effect of a celeste, and in the upper portions of the range a vibraharp sound, the primary effect for which the system was designed.

In ECHO Position

If the model 60/70 system is used but the organ speaker is not (ECHO), the slide switch should be set at SLOW. The available tremolo range is then spread over the full range of the knob, and settings can be made to any desired point.

The volume control operates only to control loudness, and its setting is a matter of taste.

In ENSEMBLE Position

If both the organ speaker and the LESLIE speaker are used, the slide switch should be set at FAST. This is desirable because beat frequencies can be created when more speakers operate together. Operating at FAST minimizes the duration of the beats, as well as their perception by the ear. As before, the tremolo knob operates over its entire range to regulate the tremolo speed.

The setting of the volume control is important in achieving the desired quality of sound, since the volume control regulates the depth, or amount, of the tremolo. Having the volume control set too far down (counter-clockwise) will cause only the organ speaker to be heard. On the other hand, too high a setting may produce beat sounds which are highly undesirable. It is perhaps best at the beginning to try both these extremes and listen to the results. Then set the control in the middle of its range and note the improvement in the performance of the system. After the model 60/70 volume control has been initially set for the level you desire, the volume control on the organ may be used to regulate volume as you play.

Variation

While the settings just described for ECHO and ENSEMBLE are those which would generally be used, one may operate the equipment at various other settings for special effects. Familiarity with the control operation, and your own musical taste, will soon indicate which settings you personally prefer.

Moving, Shipping

If the organ to which the control is attached is to be moved, unplug the cords leading to the LESLIE speaker cabinet. If the control is removed from the organ, the control and cords may be stored in the satellite cabinet.

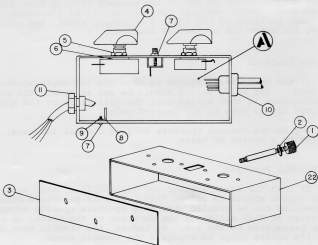


Figure 3a. Parts Identification

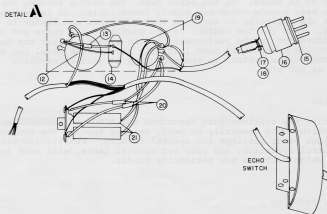


Figure 3b. Parts Identification Detail

CONTROL ASSEMBLY

1	Screw, machine, knurled, 10-24 x 1-9/16	110810
2	Washer, spring, .208 x .380	112710
3	Plate, cover	112690
4	Knob, pointer, black	020289
5	Nut, hex, 3/8 x 1/2 x 3/32	020388
6	Washer, lock, 3/8 x 11/16 x .035	020396
7	Screw, sheet metal, 6 x 1/4, Phillips head	111530
8	Terminal Strip, 2-lug	055327
9	Nut, speed	025965
10	Bushing, strain relief, 6P3-4	037986
11	Bushing, strain relief, 5P4	022368
12	Potentiometer, logarithmic taper, CCW, 500K (R1)	109660
13	Resistor, 47K, 1/2W, 10% (R2)	028506
14	Switch, slide, SPST	110770
15	Plug, 5-pin	013060
16	Cap with Clamp, plug	022046
17	Clamp	022061
18	Screw, machine, 6-32 x 3/8	027979
19	Potentiometer, audio taper, CW, 10K (R3)	028803
20	Resistor, 68-ohm, 1/2W, 10% (R6, R7)	038661
21	Resistor, wire-wound, 16-ohm, 10W, 10% (R4, R5)	129363
22	Chassis	128280

ECHO CONTROL

Switch Case, brown	103750
Cover, case, brown	048702
Knob, brown	048066
Switch, lever, 3-position	029173
Retainer	048116
Screw, thread-cutting, 6-32 x 3/8	029140
Label, MAIN/ENSEMBLE/ECHO	103670
Cork, adhesive	029157

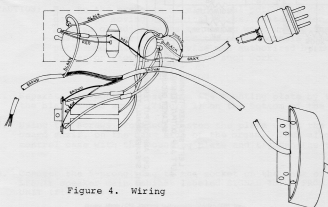


Figure 4. Wiring

