

035402 INSTALLATION INSTRUCTIONS

FOR USE WITH: Hammond Models: A, B, C, D, E, BV, CV,
B-2, C-2, RT-2, B-3, C-3, and RT-3
LESLIE Speaker Models 122, 122V, 122RV, 142, 222, 222RV

The echo control is actually a speaker selector device; a threeposition switch that makes it possible to channel the organ's output through either the main or echo speaker, or to use both speakers together, in ensemble. While any number of speakers may be use in an installation, it is necessary, where more than two speakers are involved, to arrange and use the speakers in two groups.

The Type 4 Echo Control is to be used in multiple speaker installations involving those larger Hammond consoles which do not have builtin speaker systems (models listed above). There is no limit to the number of speakers that may be connected to these models. The several speakers in a multiple speaker installation may include early model LESLIE speakers and /or Hammond tone cabinets, in addition to current model LESLIE speakers.

KIT CONTENT

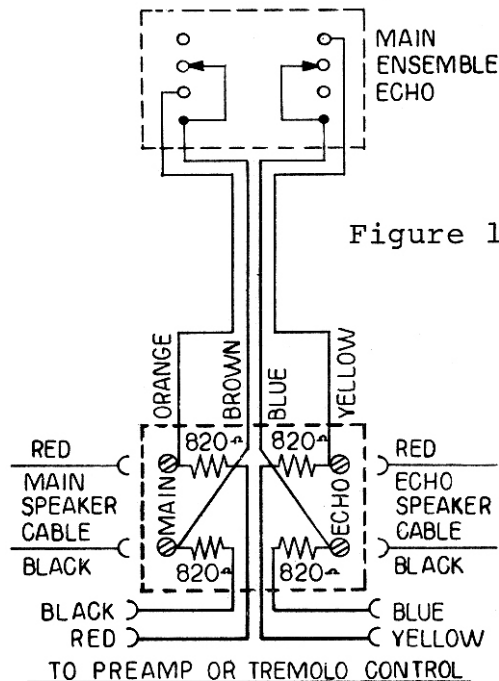
Echo Control Assembly	030825
Echo Switch Assembly	032243
Oiler	053025
Hardware Package	035535
Cap with clamp	010322
Socket, 6-contact	029546
Ring, socket retainer	031948
Spade lug, #8 (7)	010439
Screw, wood,	
6 x 1/2, black, Phillips head (2)	029124
Screw, sheet metal	
8 x 1/2, Phillips head (2)	029132
Wire Nut (4)	028076
Insulated Staple (6)	028464
Installation Instructions	035543

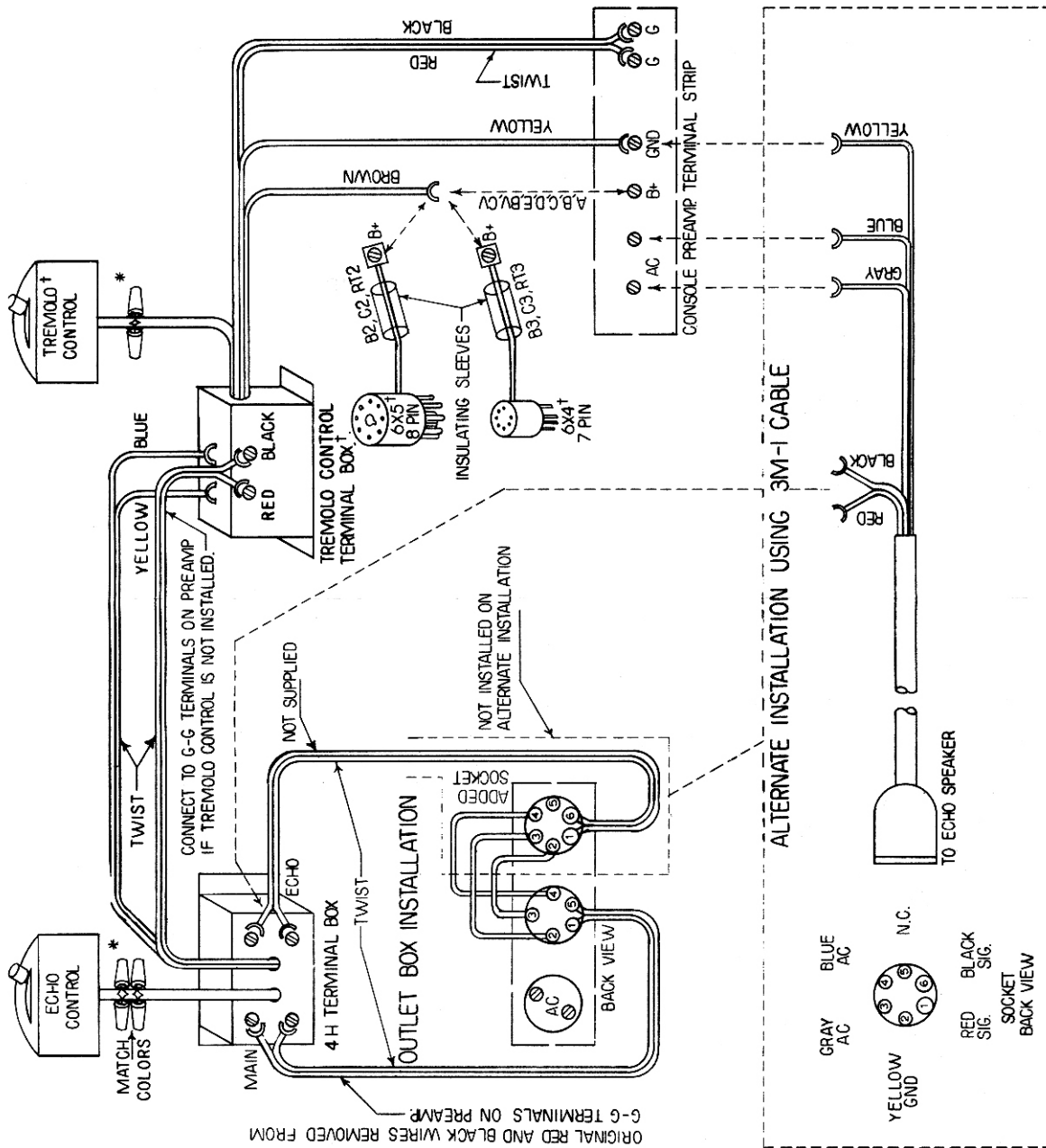
CAUTION: Due to the presence of electrical potential and the danger of moving mechanical parts, installation procedures or adjustments requiring work inside the LESLIE speaker cabinet or the organ console should be performed only by a service man authorized by the dealer or factory to perform such work.

INSTALLATION

CAUTION: DISCONNECT ORGAN POWER BEFORE PROCEEDING!

1. Attach the 4H echo control case to the wood rail directly in front of the lower manual, choosing the two mounting holes in the control case which best center the wood screws in the rail. Use the screws which are provided. The echo control may be mounted at the right end of the rail, or at the left, beside the tremolo control.
2. Mount the 4H terminal box inside the generator compartment near the pre-amplifier.
3. Connect the 4H echo control as shown in figure 2 or 3, as appropriate.
4. Pass the echo control cable into the interior of the console, using the same route as was chosen for the tremolo cable.
5. Provision for attaching the speaker connector cable should be made in one of two ways:
 - a. If an outlet box is provided in the console for the speaker connection, remove one of the metal knock-outs and install either a 5-contact socket if Hammond cable is used, or a 6-contact socket (furnished with 4H kit) if the LESLIE 6conductor cable assembly 017277 is used. (If the outlet box is already equipped with a second 5-contact socket, use of 6-to-5 adapter 035659 makes it possible to attach the 6-pole plug of the LESLIE 6-conductor cable assembly.)
 - b. If the outlet box method of connection is not used, the speaker cable may be fed into the generator compartment through a small notch that can be made in the bottom shelf of the console. A cable, part no. 030031 (formerly LPN 3M-1) should be used. The cable is supplied in 30-foot length. For longer separations bulk cable is available. The needed connectors (6-contact socket and spade lugs) are regularly included in the 4H Echo Control kit.

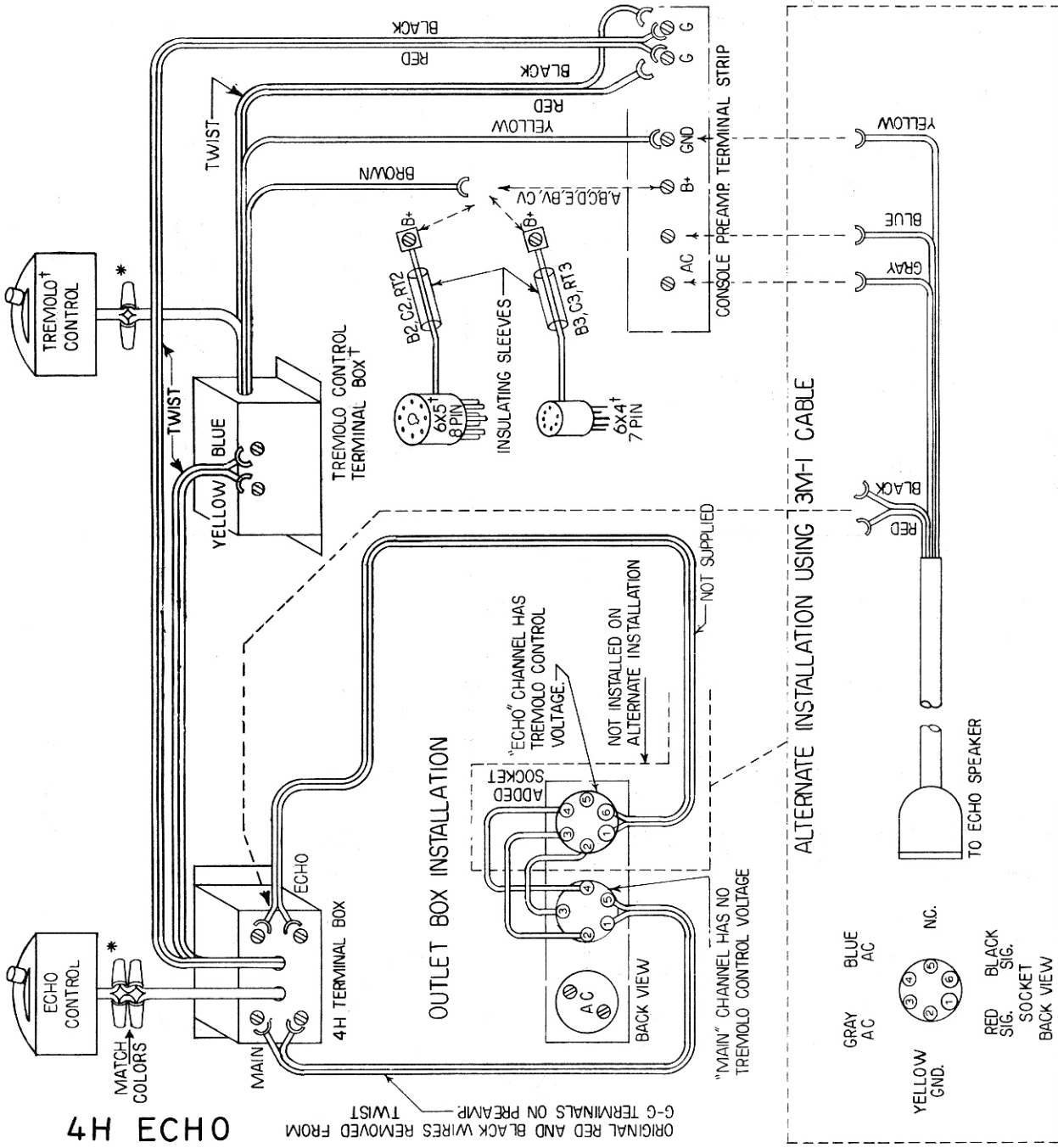




* WIRE NUTS HOLD WIRE ENDS PARALLEL AND TOGETHER BUT DO NOT TWIST. WHILE PUSHING WIRES FIRMLY INTO MOUTH OF NUT, SCREW ON WIRE NUT.

† IDENTIFIES PARTS OF LESLIE 122 TREMOLO CONTROL KIT FURNISHED WITH LESLIE CABINET.

Figure 2. Installation When LESLIE Speakers Are Used for Both Main and Echo



* WIRE NUTS HOLD WIRE ENDS PARALLEL AND TOGETHER BUT DO NOT TWIST. † IDENTIFIES PARTS OF LESLIE 122 TREMOLO CONTROL KIT WHILE PUSHING WIRES FIRMLY INTO MOUTH OF NUT, SCREW ON WIRE NUT. FURNISHED WITH LESLIE CABINET.

Figure 3. Installation When One LESLIE Speaker and One Hammond Speaker Are Used