Below is a schematic for an 11-pin Leslie Y-cable that also includes a Main-Ensemble-Echo switch. This switch allows the user to select between two Leslie speakers, allowing one or the other or both to be connected.

The main “rotary” signal is the only line that is switched - the other wires are sent to both speaker connections. This means that even though one speaker may not be sounding, its rotation is still being controlled by the signals from the organ. On one hand, this may not be desirable; on the other hand, this means that if a non-sounding speaker is switched on, it will already be rotating and thus will “blend in” immediately. In any case, a more sophisticated arrangement would require more circuitry, so I thought this arrangement was adequate (and even desirable) for my setup.

Except for pin 1 (the rotary audio signal), the other lines are simply wired “thru” to both speakers. The control signals, pins 6, 7, and 8, include diodes to provide isolation between the two speaker controls. These may not be necessary in your setup. You can try the circuit with or without and see how things work.

For the Main-Ensemble-Echo switch I used a vintage one I snagged off of eBay. These switches are also available from several sources on the web. The wire color designations on the schematic are the wire colors on my vintage unit. You might want to be make sure your wire colors are the same before hooking up your unit.

A picture of my completed unit is shown below. I purchased the Amphenol plug/sockets from Triode Electronics. I used heat-shrink tubing for the wires between the plug/sockets, and a plastic wire tie to secure the switch cable.

I hope this helps. Enjoy!

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11-pin Y-Cable with Main-Ensemble-Echo Switch

From Organ
Amphenol 86C111

1. Rotary
2. Aux1
3. Aux2
4. Signal Gnd
5. Control Gnd
6. On/Off
7. Fast
8. Slow
9. Leslie Sense

Main Plug
Amphenol 78211

1. Rotary
2. Aux1
3. Aux2
4. Signal Gnd
5. Control Gnd
6. On/Off
7. Fast
8. Slow
9. Leslie Sense

Echo Plug
Amphenol 78211

1. Rotary
2. Aux1
3. Aux2
4. Signal Gnd
5. Control Gnd
6. On/Off
7. Fast
8. Slow
9. Leslie Sense

All diodes – 1N914 or similar

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