

For Model(s): FL, CN, CH

Schematic Ref: _____

Date: December, 1960Subject: TONE CABINET INSTALLATIONS

The Lowrey Model LC-1 or HF-21 Tone Cabinet, with Amplifier, can be used in two possible ways on Festival, Coronation and Church Model organs. For "STEREO" operation, plug tone cabinet cable into six pin ECHO socket on organ power supply. For use directly with organ internal speaker system, plug into miniature four pin socket on organ power supply. The cable wiring adaptation described below is necessary to use as "STEREO".

Remove the miniature four pin plug from the cable and install a six pin plug, following this sequence:

Wire from Pin 1 of LC-1 (or HF-21) Plug to Pin 3 of 6 Pin Plug
" " Pin 2 " " " " " " Pin 4 " " " "
" " Pin 3 " " " " " " Pin 1 " " " "
" " Pin 4 " " " " " " Pin 6 " " " "

To enjoy the "stereo" feature of these models, two power amplifier and speaker systems must be used. The organ console contains one complete system, which has been designated the "MAIN" channel. The console also contains the "driver" circuit (6U8G tube) for the external amplifier and speaker, which has been designated the "ECHO" channel. The stereo tabs on the organ console direct either organ manual into either or both of these channels. (See Owner's Manual, page 20)

When using external tone cabinets, all connections and adjustments are made at the organ power supply, the area in the bottom right of the console, when viewed from the rear.

The six pin "ECHO" socket is wired directly for the Leslie Model 45 Tone Cabinet with Amplifier. The cable provided with the Leslie plugs into this socket to provide "stereo" - nothing else is required. The Leslie load resistor switch must be in the "open" position. Set Leslie volume to desired level, but avoid overloading.

The miniature four pin "MAIN" socket is wired directly for Lowrey model LC-1 or HF-21 Tone Cabinet, with Amplifier. The 35' cable provided with the tone cabinet connects between the console and the tone cabinet. No other material is required. Set tone cabinet volume to desired level, but avoid overloading. This socket provides means for expanding or extending the MAIN channel contained within the console. The nearby three position switch controls only the MAIN channel.

Position 1. Organ internal speakers connected. Use this position when no tone cabinet is plugged in four pin socket or if tone cabinet is used and organ internal speakers are to operate also.

Position 2. Organ internal speakers disconnected. Use this position when tone cabinet is plugged into four pin socket and organ internal speakers are not wanted.

Position 3. Organ internal speakers disconnected. This is "open" position enabling external speakers without amplifier to serve as MAIN speakers, using organ's internal amplifier. Connect external speaker voice coil leads to pins 3 and 4 of miniature four pin socket.

OTHER ADJUSTMENTS

There are two other adjustments found at the rear of the organ. They are on the power amplifier chassis, in the bottom left of the console. The slide switch labeled "high-low" provides volume adjustment for both MAIN and ECHO channels. Set switch to desired level.

MINIMUM HUM ADJUSTMENT

The test switch and bias potentiometer on top of the chassis is for balancing the bias of the output tubes and thus reducing the hum level to a minimum. To adjust, place the test switch in the "on" position, and adjust the bias potentiometer for minimum hum.
Return switch to "off" position.