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ECC-CE6 Circuit Expander Product Installation Document

PN LS10033-000FL-E:A 4/9/2013 13-186

1 ECC-CE6 Installation Instructions

The ECC-CE6 adds six audio circuits, 3 primary and 3 secondary, to the ECC-50/100 Emergency Command Center. The ECC-CE6 mounts onto the ECC-50/100 main control board. Refer to the ECC-50/100 Manual #LS10001-000FL-E for more information.

NOTE: Installation and wiring of this device must be done in accordance with NFPA 72 and local ordinances.

2 Board Layout & Mounting

1. Turn off AC power and disconnect batteries.
2. Remove the screw and wire clamp that secures the display cable from the top left of the board as shown. The remaining 1-5/8” standoff will be used to mount the ECC-CE6.

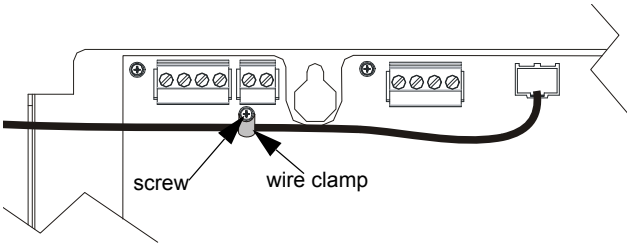

Figure 1 Removing the Screw/Wire Clamp

3. Install the ECC-CE6 into a 25V or 70V system as described below.

2.1 Mounting to a 25V System

1. Remove the screws from the ECC-50/100 main control board and replace with the seven (7) supplied 1-5/8" long male-female standoffs as shown.
2. Align the ECC-CE6 over the standoffs installed in step 1. Insert header JH1 on the ECC-CE6 into P1 on the ECC-50/100 main control board, being careful not to bend any pins.
3. Secure the ECC-CE6 to the standoffs with eight (8) #4-40 screws removed previously.
4. Route the display cable under the ECC-CE6.

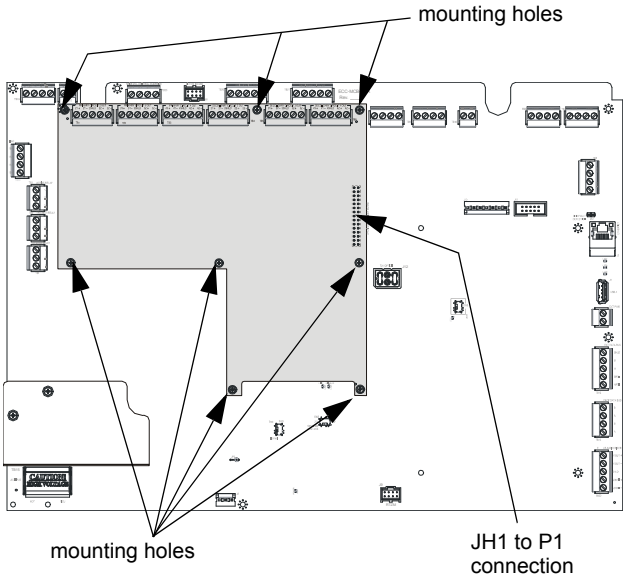

Figure 2 Mounting the ECC-CE6

2.2 Mounting to a 70V System

If the ECC-CE6 will be used in a 70V system, it must be mounted in conjunction with the ECC-XRM-70V Transformer.

1. Remove the screws from the ECC-50/100 main control board and replace with seven (7) total standoffs, five (5) 1-5/8” standoffs (supplied with the ECC-CE6) and two (2) 1-9/16" long standoffs (supplied with transformer bracket) as shown.
2. Secure transformer bracket to the chassis using two (2) #8-32 keps nuts. Install using an 11/32” socket.

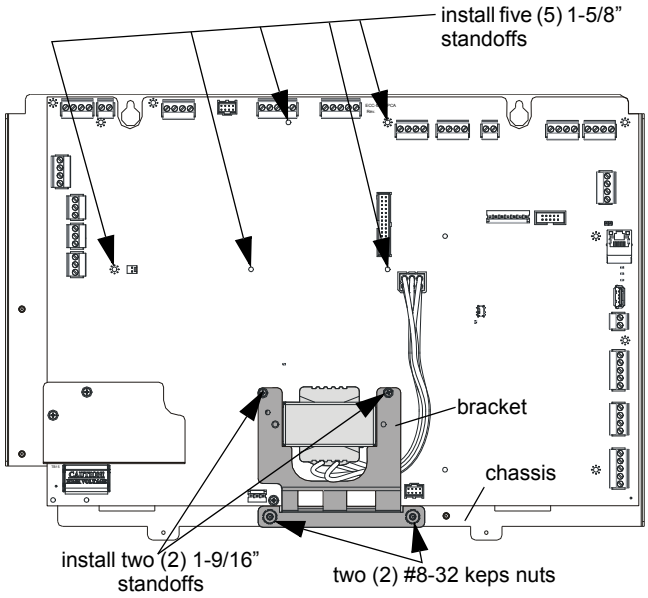

Figure 3 Installing the Transformer Bracket

3. Align the ECC-CE6 over the standoffs installed in step 1. Install header JH1 on the ECC-CE6 into P1 on the ECC-50/100 main control board, being careful not to bend any pins.
4. Secure the ECC-CE6 to the standoffs with the eight (8) #4-40 screws previously removed. The bottom end of the ECC-CE6 will mount on the transformer bracket. See Figure 4.
5. Route the display cable under the ECC-CE6.

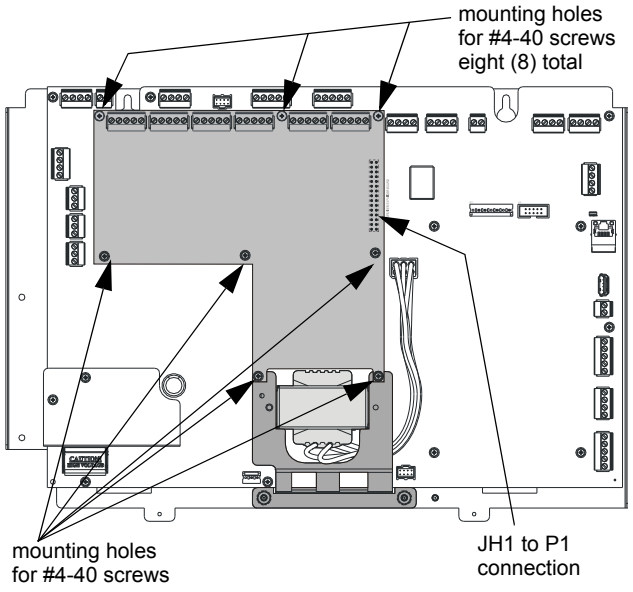

Figure 4 Mounting the ECC-CE6 & Transformer

3 Wiring

Speakers can be wired in either Class A (Style Z) or Class B (Style Y). Circuits are configured through the web-based programming utility. Use of the secondary circuits requires the optional secondary amplifier ECC-50W-25/70V. All circuits are supervised and power-limited. When all wiring is complete, restore AC power and reconnect batteries. See Figure 5.

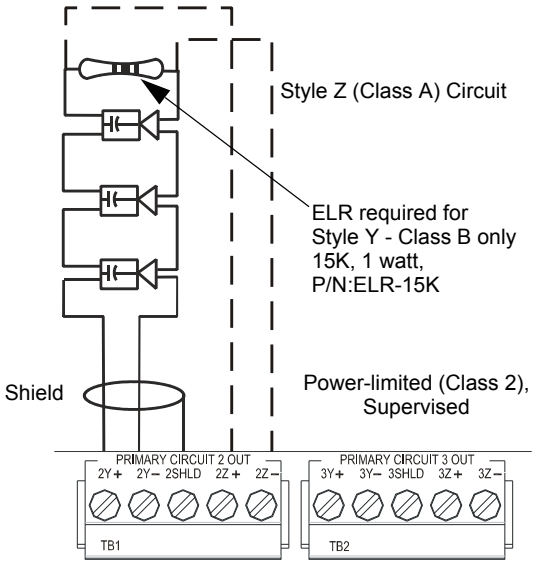

Figure 5 Speaker Wiring