

## ECC-RM Remote Microphone Product Installation Document

PN LS10029-000FL-E:B 8/27/2013 13-739

### 1 Overview

The ECC-RM is an optional Remote Microphone compatible with the ECC-50/100 Emergency Command Center. ALL CALL paging can be broadcast over the speaker circuits by depressing the microphone's push-to-talk switch. The RM requires an external data bus connection, an external audio riser connection, and an external operator interface power connection (24 volts DC) from the ECC-50/100 main console. Refer to the ECC-50/100 Manual, LS10001-000FL-E, for more information.

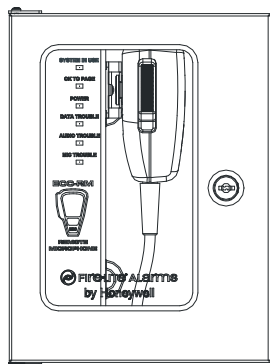


Figure 1 ECC-RM

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

### 2 Installation

#### 2.1 Removing the Bracket/ Microphone Assembly

1. Unlock the cabinet door.
2. Remove the two screws holding the assembly in place.

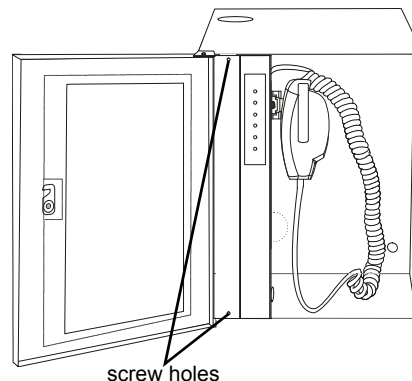


Figure 2 Microphone Assembly Screw locations

3. Remove the bracket/microphone by sliding the assembly out of its mounting slots.
4. Store assembly in a safe location.

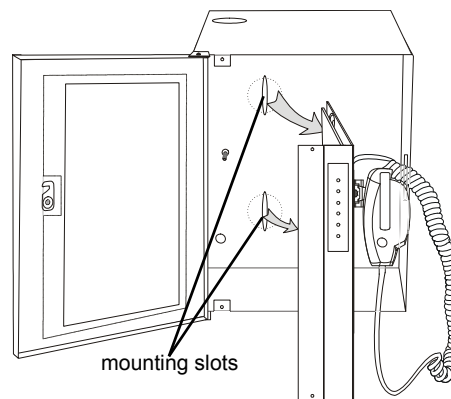
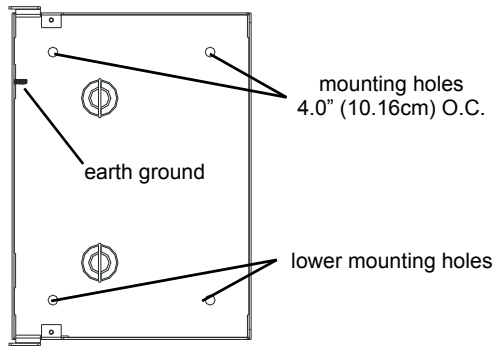


Figure 3 Removing the Microphone Assembly

#### 2.2 Mounting the Backbox

1. Mark and predrill two holes for the top and two for the bottom of the backbox.
2. Hold cabinet on wall and tighten down all fasteners to complete backbox mounting.

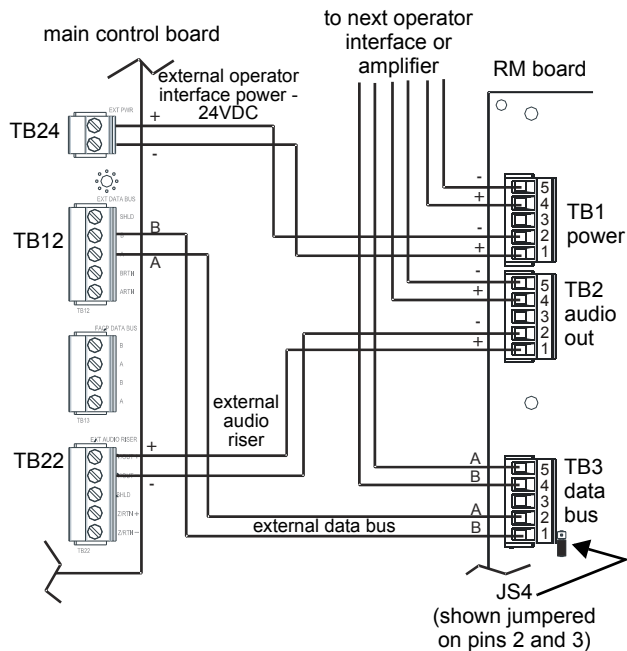
- Carefully reinstall the bracket/microphone assembly. Remember to attach the ground cable.



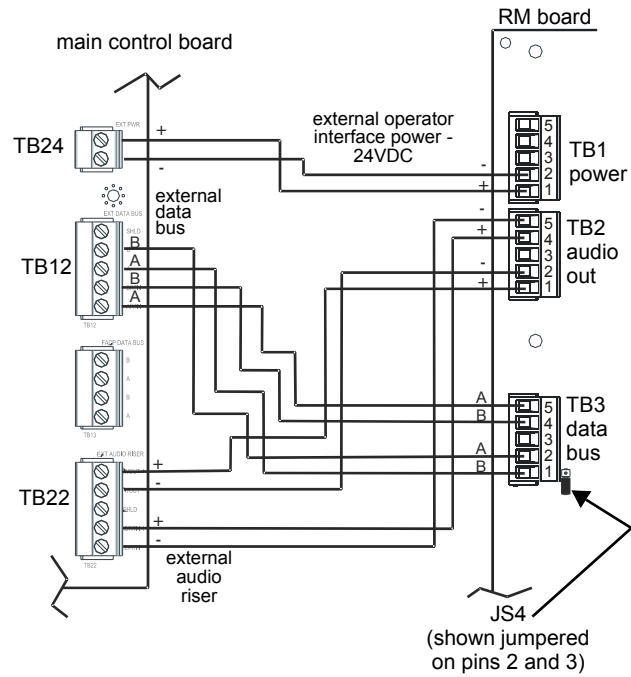
**Figure 4 Backbox Mounting**

### 3 Wiring

Connections are made from TB24, TB12, and TB22 on the ECC-50/100 main control board to TB3, TB2, and TB1 on the RM. If the ECC-RM is the last device on the audio and data bus chain, signal terminations are required. For the external data bus, a removable jumper must be on pins 1 and 2 of JS4. If the ECC-RM is not the last device, the jumper must be on pins 2 and 3 of JS4. For the external audio riser, termination (15K ohm resistor) must be on pins 4 and 5 on TB22.



**Figure 5 Remote Microphone Wiring (Class B/Style Y)**



**Figure 6 Remote Microphone Wiring (Class A/Style Z)**

### 4 LED Indicators

**System in Use** A green LED that turns on steady when the main console, an LOC, an RPU, or an RM has control of the audio system.

**OK to Page** A green LED that turns on steady to instruct the operator that he/she may start speaking.

**Power** A green LED that turns on steady when DC power is present.

**Data Trouble** A yellow LED turns on steady when the main console and RM cannot communicate.

**Audio Trouble** A yellow LED that turns on steady when the audio riser wiring is open or short-circuited.

**Mic Trouble** A yellow LED that turns on steady to indicate a microphone wiring fault.