

Field Replacement of E2 Units

3.xx and Below

Steps for Replacement of E2 Units

When retrofitting E2 units versions 3.xx and below at a site, first back up the unit being replaced and read the following steps for instructions on installing E2 units version 4.0 and above:

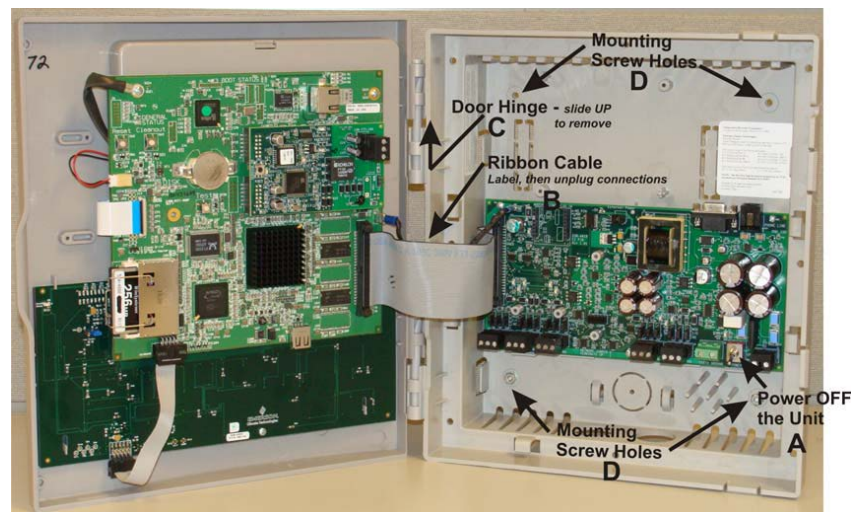


Figure 1 - E2 Version 4.0

1. Open the case of the E2 unit to be removed and power down the unit (Refer to A in Figure 1).
2. Before disconnecting cables, label all communication and power connections in the E2 being removed for easy identification when the cables are reconnected to the new unit (Refer to B in Figure 1).
3. Unplug all the PIB and circuit board connections to the unit including 24VAC, Earth Ground connections, Echelon, RS485, and COM port connections on the PIB.
4. From the main circuit board, remove the Ethernet and ribbon cables (Refer to B in Figure 1). Also remove any communication cards mounted inside of the case above the PIB board (if applicable).
5. Slide the door off the case, which will make it easier to remove the back of the unit from the wall (Refer to C in Figure 1).
6. Remove the 4 screws that mount the unit to the wall and remove the unit (Refer to D in Figure 1).
7. Verify that the new unit is powered down before mounting (Refer to A in Figure 1).
8. Once the E2 has been removed, mount the new unit by first sliding the door off the case.
9. Mount the back of the case to the wall by replacing the 4 screws and securing the unit in place.

10. Replace the door to the unit. *Note that E2 doors are not backwards compatible between units. Keep each unit's door with its correct case.*
11. Connect the cables to the new PIB board (see [Figure 2 - E2 PIB Version 4.0](#) and [Figure 3 - E2 Circuit Board Version 4.0](#) for PIB and circuit board connections)
12. Verify all connections are correct and cycle power to the unit.

E2 PIB Board Connections

PIB Board - E2 Firmware version 4.0 and above

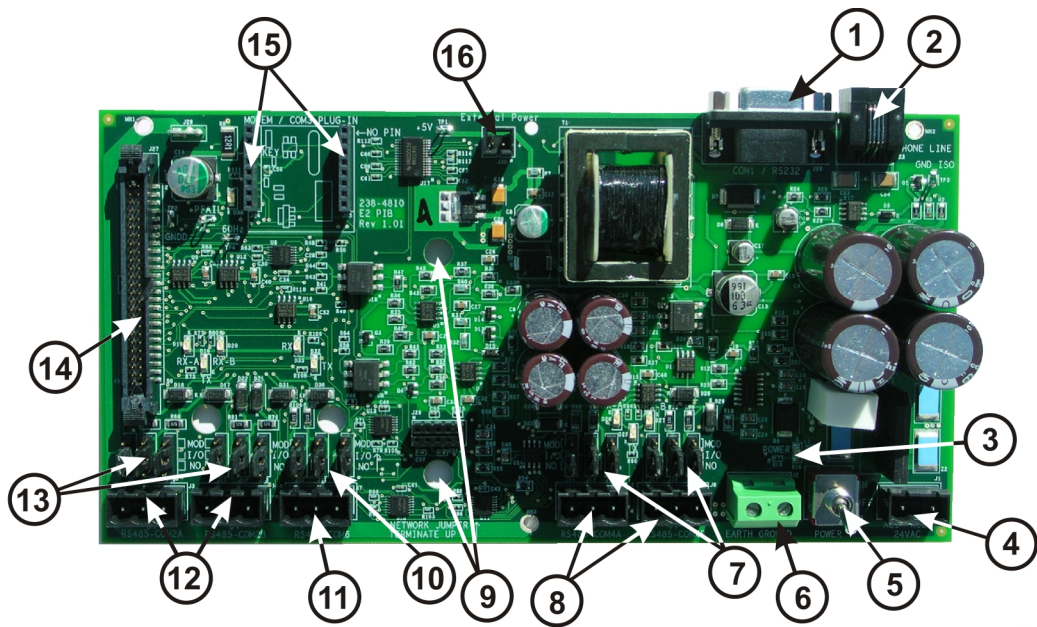


Figure 2 - E2 PIB Version 4.0

LEGEND			
1	RS232 COM1 Port	9	Plug-in Digital I/O Card (I/O Card Not Shown)
2	Phone Line Jack	10	Termination Jumpers (for COM6)
3	Power ON LED	11	RS485 COM6 Port
4	Power Terminal (24VAC Class 2 only)	12	RS485 COM2A and COM2B Port
5	Power Switch	13	Termination Jumpers (for COM2A and COM2B)
6	Earth Ground	14	Power Interface Port
7	Termination Jumpers (for COM4A and COM4B)	15	MODEM/COM3 Plug-in (MODEM Plug-in Not Shown)
8	RS485 COM4A and COM4B Ports	16	External Power Connector (for Echelon Repeater Card)

E2 Circuit Board Connections

Main Circuit Board - E2 Firmware version 4.0 and above

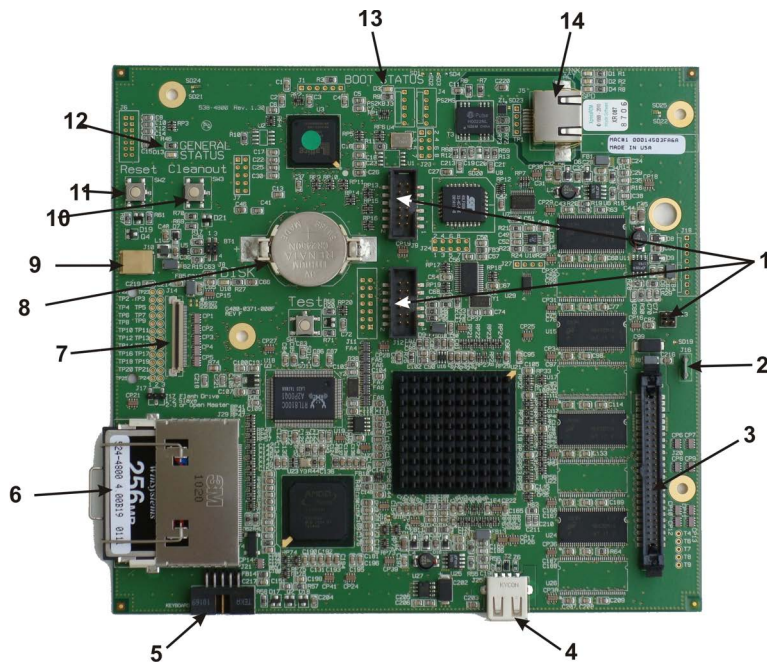


Figure 3 - E2 Circuit Board Version 4.0

LEGEND			
1	Echelon Card Mounting Connectors	8	Real-Time Clock Battery
2	Earth Ground to PIB	9	Backlight Connector
3	Power Interface Board Connector	10	Cleanout Button
4	USB Connector	11	Reset Button
5	Keyboard Connector	12	General Status LED
6	Compact Flash Card	13	Boot Status LED
7	LCD Connector	14	Ethernet Connector

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For Technical Support call 833-409-7505 or email ColdChain.TechnicalServices@Copeland.com