



BC-1EQ Seismic Kit Installation Sheet

Description

The BC-1EQ Seismic Kit is used to restrain standby batteries in a BC-1 battery cabinet, and other components in fire alarm system cabinets when the BC-1 is used to house their standby batteries.

The kit provides cross brackets and the necessary mounting hardware, cable ties, cable mounts, and alcohol wipes.

The table below lists the affected cabinets and shows how the BC-1EQ is used in the cabinets.

Cabinet	BC-1EQ application
BC-1 battery cabinet	Restrains the standby batteries
3-CAB or 3 RCC series fire alarm system cabinets [1]	Secures the data cable connections on a rail chassis
Analog/addressable fire alarm system cabinets [1]	Secures the SA-ETH Ethernet card ribbon cable

[1] When the BC-1 battery cabinet is used to house standby batteries

Installation

WARNING: Shock hazard. To avoid personal injury, remove all sources of power and allow stored energy to discharge before installing or removing equipment.

Restraining standby batteries in a BC-1 battery cabinet

WARNING: Shock hazard. Do not touch the battery terminals with the battery brackets when installing the brackets. Cover the exposed terminals with electrical tape during installation. Failure to follow these instructions can result in personal injury or equipment damage.

Notes

- Do not drill the bracket mounting holes into a knockout.
- If a 3-BTSEN Battery Distribution Bus is installed in the cabinet, do not obstruct it when installing the bracket.

This section describes how to install the BC-1EQ Seismic Kit for the battery configurations listed below.

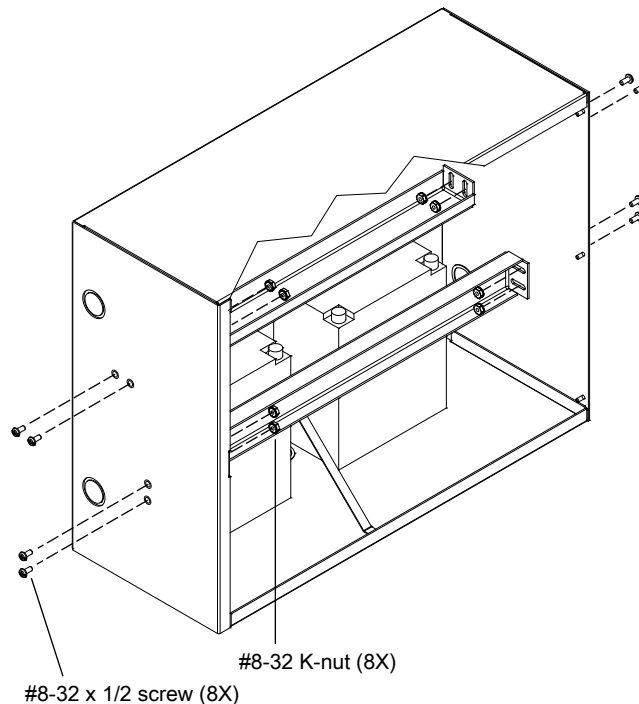
Battery configuration	Description
17 Ah	Supports two 12 V, 17 Ah batteries
24 Ah	Supports two 12 V, 24 Ah batteries
40 Ah	Supports two 12 V, 40 Ah batteries

To install the battery brackets:

- After de-energizing the unit, set the batteries in the bottom of the cabinet and push them against the back wall.
- Rest a cross bracket (P/N 9000842-3) across the top of the batteries, at least 1/2 in. away from the battery terminals, and mark the mounting holes. See Figure 1.
- For a 40 Ah battery configuration, go to step 5.

- For a 17 or 24 Ah battery configuration, position a cross bracket (P/N 9000842-3) against the front of the batteries, at least 1/2 in. below the battery terminals, and then mark the mounting holes.
- Remove the batteries. Drill bracket mounting holes where marked, using a number 18 drill bit.
- Replace the batteries and install the brackets using the hardware provided. See Figure 1.

Figure 1: Installing the cross brackets for a 17 or 24 Ah battery configuration



Securing the data cable connections in 3-CAB or 3-RCC series fire alarm cabinets

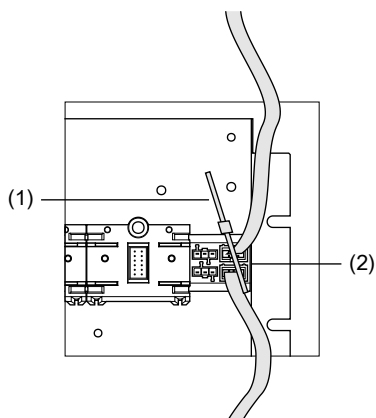
When using the BC-1 battery cabinet to house standby batteries for 3-CAB or 3-RCC series fire alarm cabinets with rail chassis installed, you must secure the data cable connections on the rails. The connections on the 3-CHAS7 or 3-CHASS4 chassis must be tied down to ensure that the cables will not disconnect.

Figure 2 provides an example of how to wrap a cable tie diagonally around two data cable connectors and the rail. If you choose a different method of wrapping the tie, make sure you encompass the connectors.

To secure the data cable connections:

- Wrap a cable tie over the data cable connectors and around the rail. See Figure 2.
- Make sure the cable tie is over the connectors and then pull it tight.
- Cut off any excess cable tie.
- Repeat the procedure for each rail.

Figure 2: Installing the cable tie over data cable connections on a chassis rail



- (1) Cable tie
- (2) Data cable connections

Securing the SA-ETH Ethernet card ribbon cable in analog/addressable fire alarm cabinets

Caution: Equipment damage hazard. This product is sensitive to electrostatic discharge (ESD). To avoid damage, follow accepted ESD handling procedures.

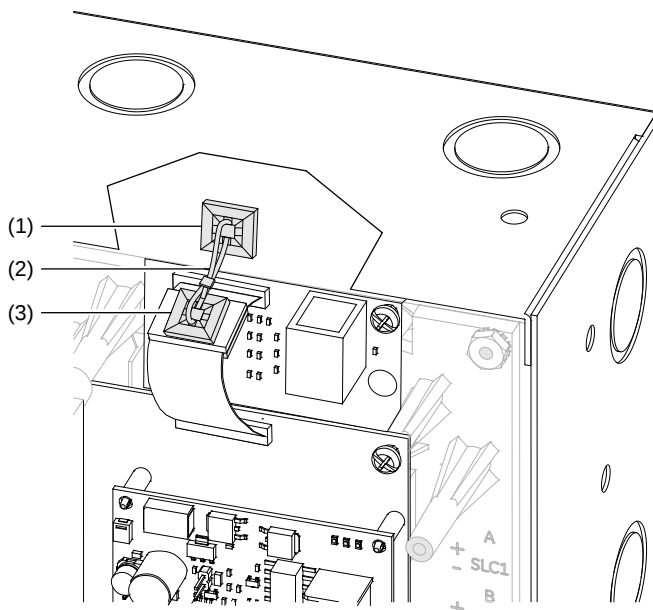
When using the BC-1 battery cabinet to house standby batteries for analog/addressable fire alarm cabinets with an SA-ETH Ethernet card installed, you must secure its ribbon cable to ensure that the cable does not disconnect.

Figure 2 provides an example of how to secure the cable. If you choose a different method, make sure the cable cannot move.

To secure the SA-ETH Ethernet card ribbon cable:

1. Open an alcohol wipe and clean the top of the ferrite on the SA-ETH ribbon cable where a 1-inch square cable mount will be placed. See Figure 3.
2. Clean an area on the cabinet rear wall for a second cable mount. The area must be located so a cable tie can loop from the ferrite cable mount to the wall cable mount.
3. Remove the adhesive paper from the backs of the cable mounts and attach the mounts to the cleaned areas.
4. Thread a cable tie through the slot in the cable mount on the ferrite, and then through the cable mount on the wall.
5. Loop the cable tie back and tighten it. Cut off any excess. Do not overtighten the cable tie, to avoid pulling the cable mounts away from their surfaces.

Figure 3: Installing the cable mounts and cable tie for an SA-ETH ribbon cable



- (1) Cable mount on the cabinet rear wall
- (2) Cable tie
- (3) Cable mount on the ribbon cable ferrite clamp

Contact information

For contact information, see www.edwardsfiresafety.com.

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