Charles Universal Broadband Enclosure
97-PM639INSKTAK and 97-ROXTEC2X3KFO
General Description and Installation

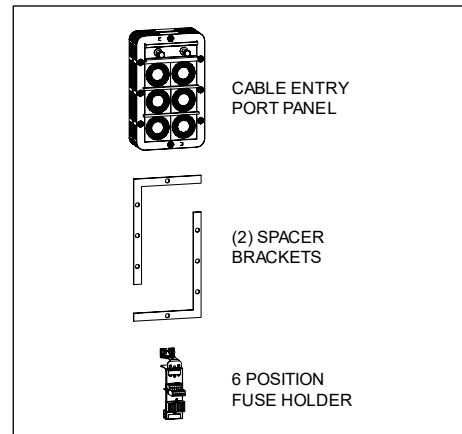## 1. GENERAL INTRODUCTION

1.1. Document Purpose

This document provides general information for the 97-PM639INSKTAK and 97-ROXTEC2X3KFO cable entry kits for Charles PM639 series cabinets. Figures 1 and 2 show the kit components. Breakers and fuses are not pictured.
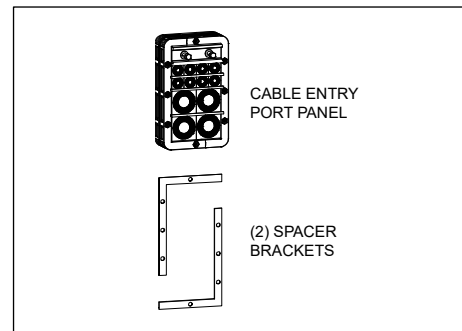
-NOTE-

Hereafter, the Charles 97-PM639INSKTAK and 97-ROXTEC2X3KFO cable entry kits will be referred to as the "kit." The CUBE-PM639 series cabinets will be referred to as the "CUBE."

1.2. Product Purpose

The kit includes a Roxtec cable entry port panel and two spacer brackets to mount the panel on the side of the CUBE. The 97-PM639INSKTAK also includes breakers, fuses, and a 6-position fuse holder for installation into the CUBE.

CABLE ENTRY PORT PANEL

(2) SPACER BRACKETS

6 POSITION FUSE HOLDER

Figure 1
97-PM639INSKTAK Components

CABLE ENTRY PORT PANEL

(2) SPACER BRACKETS

Figure 2
97-ROXTEC2X3KFO Components

2. INSTALLATION

2.1. Inspecting the Product

The kit is shipped in a carton. Unpack the unit, and dispose of the packaging material.

> *-INSPECTION NOTE-*
>
> *Visually inspect the unit for damages prior to installation. If the equipment was damaged in transit, immediately report the extent of the damage to the transportation company.*

2.2. Following and Using Safety Precautions

Read the following site and safety tips, cautions, and warnings, then proceed with the paragraphs that follow.

- Read all instructions, warnings and cautions on the equipment and in the documentation shipped with the product.
- Do not place this product on weak or unstable surfaces which may allow the product to fall, resulting in potentially serious damage(s) to persons or product.
- Only authorized trained personnel shall install the kit.

2.3. Obtaining Tools and Equipment

Obtain the following recommended or needed items for installing the kit.

- Protective and/or insulated work gloves
- Safety glasses
- Slotted, hex, and Phillips screwdrivers
- Torque wrench

2.4. Mounting the Kit
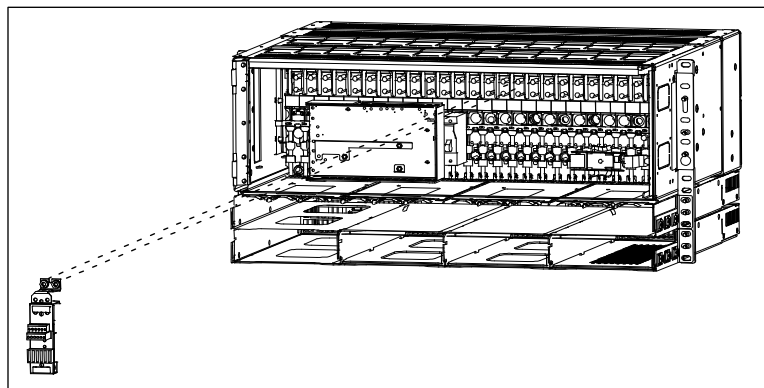
2.4.1. Torque Requirements

Torque all hardware as shown below (unless otherwise noted). These values apply to SAE Grade 1 & 2 Low Carbon Steel, ASTM A307 Low Carbon Steel, and Stainless Steel Grade 18-8.

Thread Size	In-lbs	Ft-lbs
4-40	4±10%	
6-32	8±10%	
8-32	16±10%	
10-32	26±10%	
12-24	50±10%	
1/4-20/M6	60±5%	5±5%
5/16-18	125±5%	10.4±5%
3/8-16	180±5%	15.0±5%
1/2-13	500±2%	41.7±2%
5/8-11	1000±1%	83.3±1%

2.4.2. Breakers and Fuses 97-PM639INSKTAK Only)

The power shelf has a hinged panel across the front. In Figure 3, the panel is hidden for clarity.
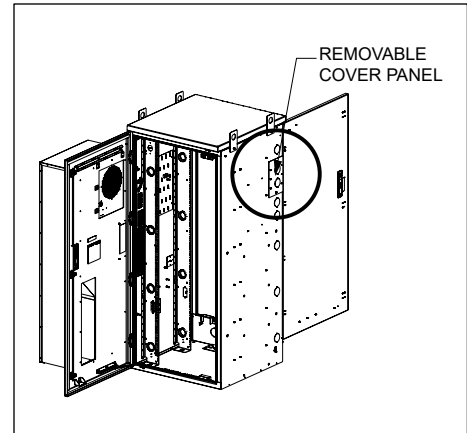
1. Install the kit breakers into the CUBE power shelf.
2. Install the fuses into the 6-position fuse holder.
3. Install the fuse holder onto two adjacent bullet positions in the power shelf return bus as shown (Figure 3).
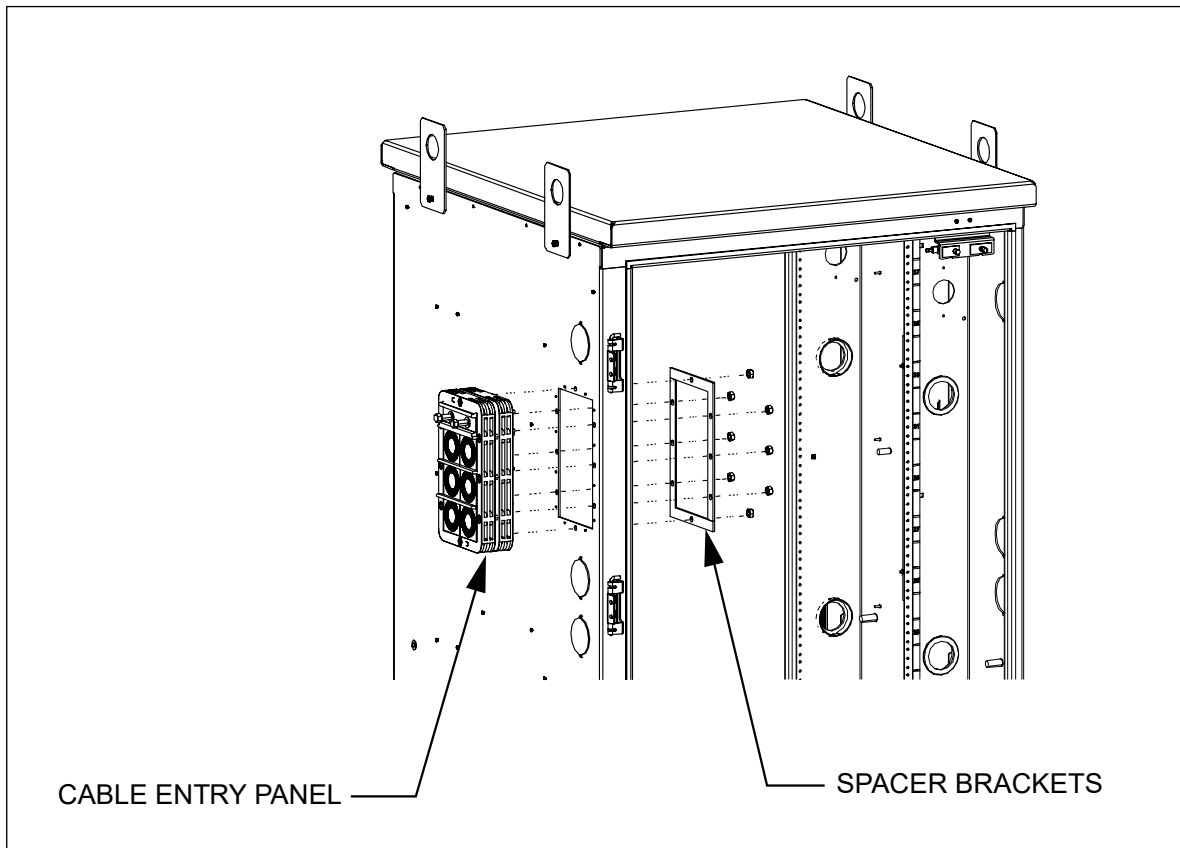

Figure 3   Fuse Holder Installation

2.4.3. *Installing the Cable Entry Panel*

1. Remove the panel from the side of the CUBE (Figure 4). Store or discard this panel and its hardware per company practice.
2. Install the cable entry panel over the opening in the side of the CUBE (Figure 5).
   a. Place the cable entry panel against the outside of the CUBE.
   b. Arrange the L-shaped two spacer brackets into a rectangle and place these components against the inside of the CUBE, around the opening. The spacer brackets must be used to ensure that the cable entry panel has a tight seal to the CUBE side panel.
   c. Secure the cable entry panel and spacer brackets using the nuts that ship with the cable entry panel.

REMOVABLE COVER PANEL

Figure 4   Remove Side Panel

CABLE ENTRY PANEL

SPACER BRACKETS

Figure 5   Install Cable Entry Panel

3. TECHNICAL ASSISTANCE AND REPAIR SERVICE

For questions on product repair or if technical assistance is required, contact Charles Technical Support.

 847-806-8500
 techserv@charlesindustries.com (email)
 http://www.charlesindustries.com/techserv.htm

4. WARRANTY & CUSTOMER SERVICE

Charles Industries LLC offers a one-year warranty on the kit product. The Charles warranty is limited to the operation of the kit hardware as described in this documentation and does not cover equipment which may be integrated by a third party. The terms and conditions applicable to any specific sale of product shall be defined in the resulting sales contract. For questions on warranty or other customer service assistance, contact your Charles Customer Service Representative.

 847-806-6300
 mktserv@charlesindustries.com (email)
 http://www.charlesindustries.com/main/telecom_sales_support.htm