

# Charles 6” Plinth for CUBE-PM and CUBE-BB Series

## 97-PLNTHPMBBCAB

### General Description and Installation

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## 1. GENERAL INTRODUCTION

### 1.1. Document Purpose

This document provides general information for the 97-PLNTHPMBBCAB 6” plinth kit for the CUBE-PM and CUBE-BB Series cabinets. Figure 1 shows the plinth. Mounting hardware is not shown.

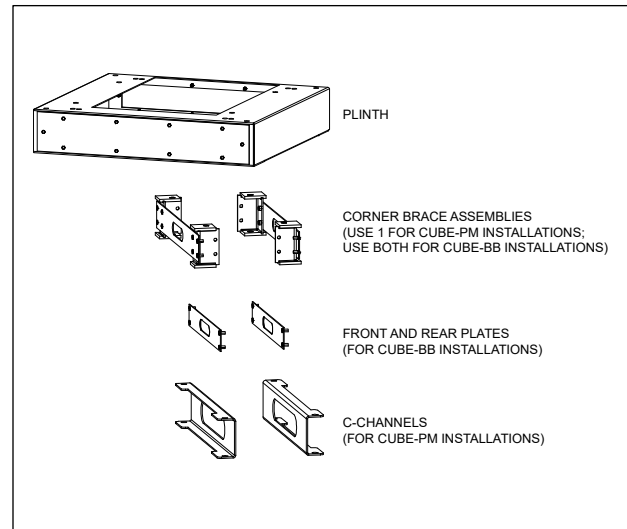


Figure 1 Plinth Kit

**-NOTE-**

Hereafter, the Charles 97-PLNTHPMBBCAB 6” plinth kit will be referred to as the “kit.” The Charles CUBE-PM and CUBE-BB Series will be referred to as the “CUBE.”

### 1.2. Product Purpose

The kit is intended for use in mounting the CUBE on a concrete pad. The plinth provides a storage space for cable slack. The kit includes hardware for mounting the CUBE onto the plinth. Hardware for securing the plinth to the concrete pad is customer supplied. Plinth dimensions are shown in Figure 2.

The kit includes components shipped loose in the box that are used to reinforce the plinth from the inside. The configuration of these internal components depends on the cabinet type being installed (CUBE-PM or CUBE-BB). This document shows the installation of these components for each cabinet type.

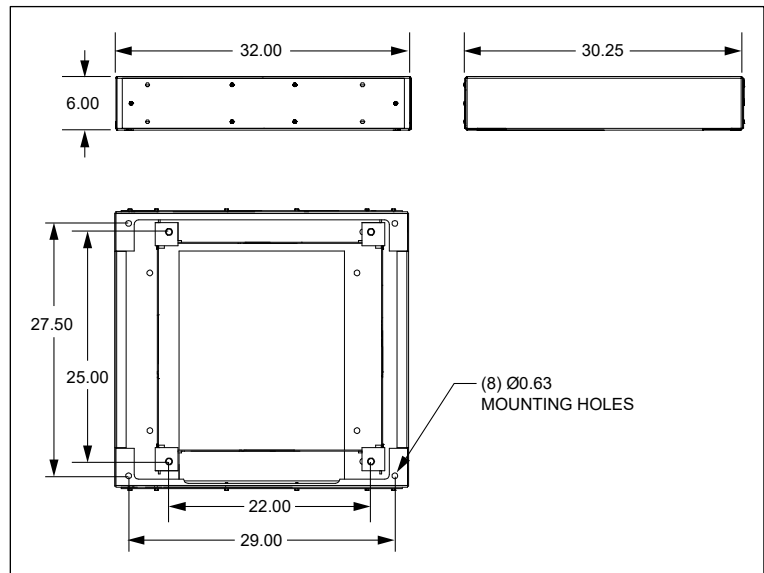


Figure 2 Dimensions (in inches)

## 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.

- For installation, follow all National Electrical Codes (NEC) ANSI/NFPA 70, local, environmental, workplace, and company codes, safety procedures, and practices.
- Minimum spacing between the accessories and components and the housing for ITE equipment shall be maintained for safe operation of the equipment when installed in accordance with NEC ANSI/NFPA 70.
- 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
- Any exterior cable strain relief, per company practice
- Slotted, hex, and Phillips screwdrivers
- Torque wrench

### 2.4. Mounting the Kit

#### 2.4.1. Torque Requirements

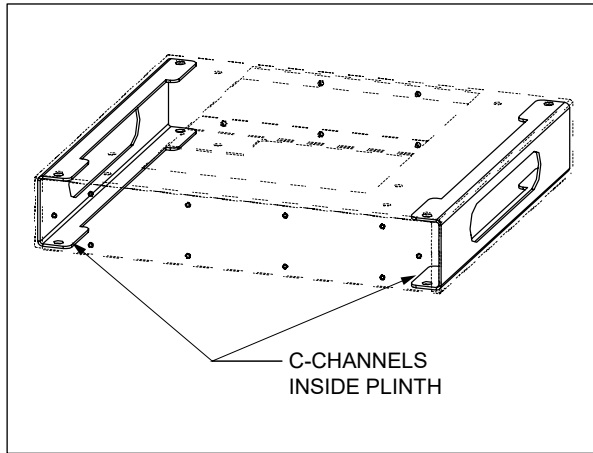
Torque all hardware as shown below (unless otherwise noted). These values apply to SAE Grade 1 & 2 Low Carbon Steel, ASTM A307 Low Carbon Steel, and Stainless Steel Grade 18-8.

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%

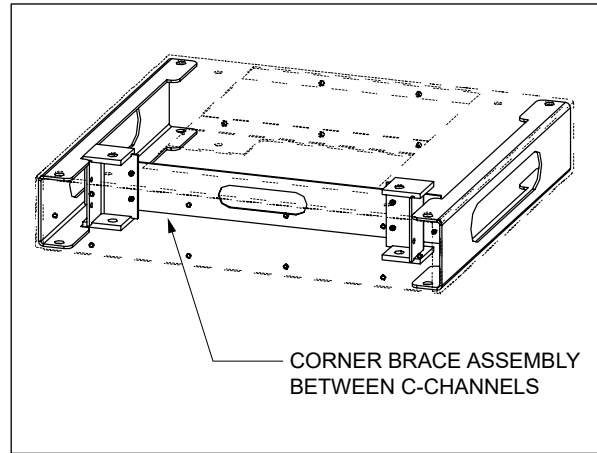
**2.4.2. Preparing the Kit for CUBE-PM Installations**

To prepare the kit for CUBE-PM installations, locate the plinth, one corner brace assembly, and both C-channels. In this section, the images show the plinth as dashed lines, so that the interior space can be seen.

1. Place the C-channels into the interior of the plinth, pushing the C-channels outward toward the side walls of the plinth as shown in Figure 3.
2. Place the corner brace assembly into the interior of the plinth. The assembly is set back from the front of the plinth so that it fits between the C-channels as shown in Figure 4.
3. Ensure that the holes in the C-channels and the corner brace assembly are aligned with the holes in the plinth. These holes must be accessible when mounting the plinth and the CUBE onto the concrete pad.



**Figure 3 Place C-channels**

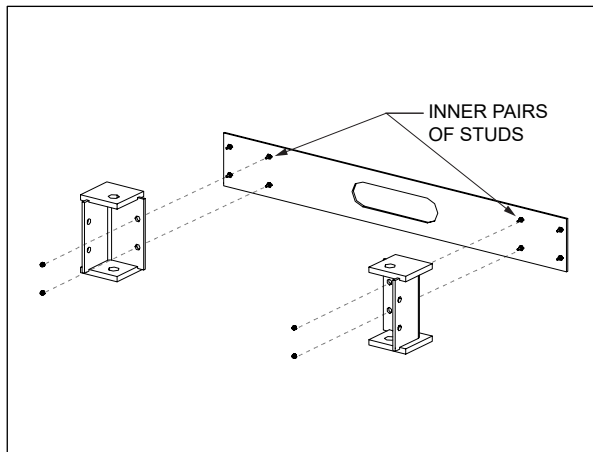


**Figure 4 Place Corner Brace Assembly**

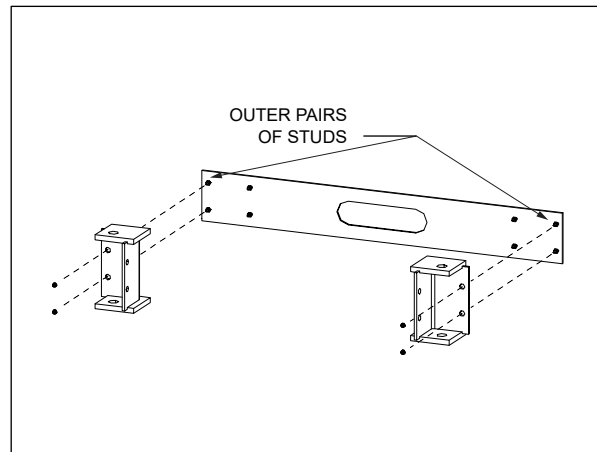
**2.4.3. Preparing the Kit for CUBE-BB Installations**

To prepare the kit for CUBE-BB installations, locate the plinth, the two corner brace assemblies, and the front and rear plates. In this section, the images show the plinth as dashed lines, so that the interior space can be seen.

1. As shipped, the corner brace assembly is constructed with the flat plate secured to the corner pieces at the inner pairs of studs (Figure 5). Re-position the flat plate so that it is secured at the outer stud positions (Figure 6).
2. Repeat step 1 for the second corner brace assembly.

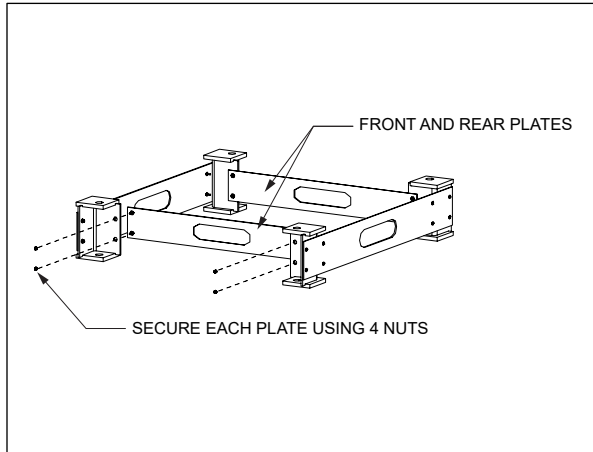


**Figure 5 Remove Flat Plate from Corners**

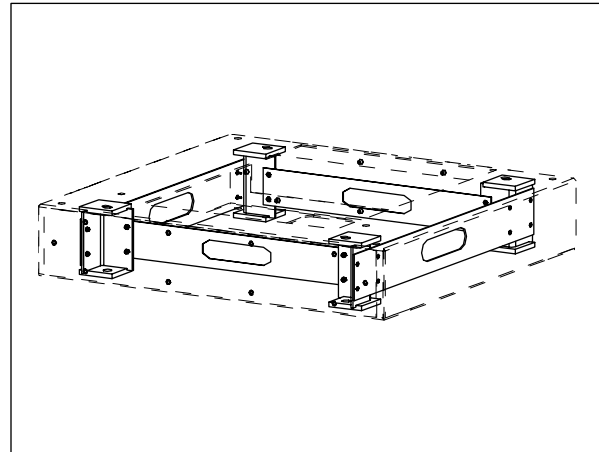


**Figure 6 Re-attach Flat Plate in Outer Position**

3. Secure the front and rear plates across the inside of the corner brace assemblies (Figure 7).
4. Place these assembled components into the interior of the plinth (Figure 8).
5. Ensure that the holes in the corner brace assemblies are aligned with the holes in the plinth. These holes must be accessible when mounting the plinth and the CUBE onto the concrete pad.



**Figure 7 Attach Front and Rear Plates**



**Figure 8 Place Components Inside Plinth**

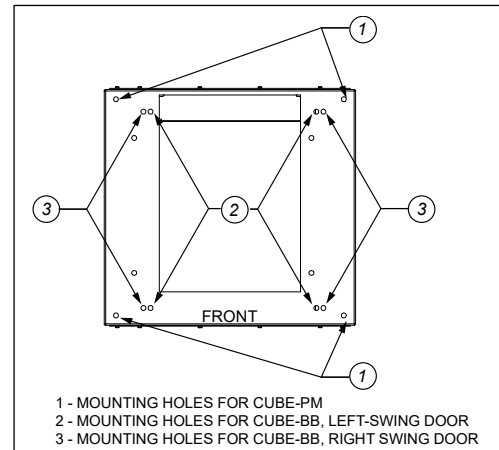
**2.4.4. Installing the Kit**

Prepare the concrete pad according to the instructions that ship with the CUBE. See Figure 2 for mounting hole dimensions for the plinth.

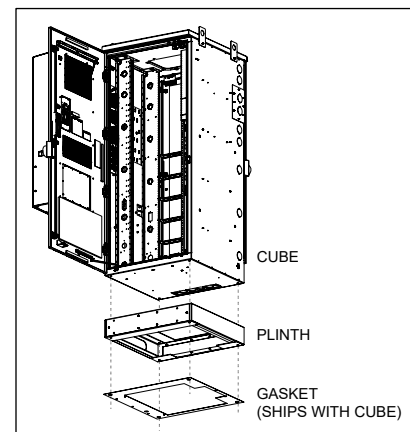
Four customer supplied, corrosion resistant, 1/2"-13 hex head bolts with anchors are required for mounting the kit to the concrete pad. Hardware for securing the CUBE to the plinth is included with the kit.

Use the following steps for mounting. Note that the gasket shown in this section ships with the CUBE.

1. Layout, drill, and set the 1/2" anchors per manufacturer's recommendations. The embedment depth is not to exceed 3.5". Use the gasket as a mounting hole location template.
2. Clean any debris from the concrete pad.
3. Install the gasket by positioning it on the pad with all mounting holes aligned with the holes on the pad as shown in Figure 9.
4. Position the plinth so that the mounting holes in the plinth are aligned with those on the gasket and the pad.
5. Secure the plinth to the pad using four customer supplied, corrosion resistant, 1/2"-13 hex head bolts with anchors.
6. See the instructions that ship with the CUBE for lifting and moving the CUBE.
7. Open the CUBE door to allow access to mounting holes.
8. The plinth has multiple sets of mounting holes on top, depending on what cabinet is being mounted. Figure 9 shows which holes to use for each installation option. Align the cabinet with the appropriate set of mounting holes.
9. Lower the CUBE onto the plinth (Figure 10).
10. Secure the CUBE to the plinth using hardware that ships with the kit.



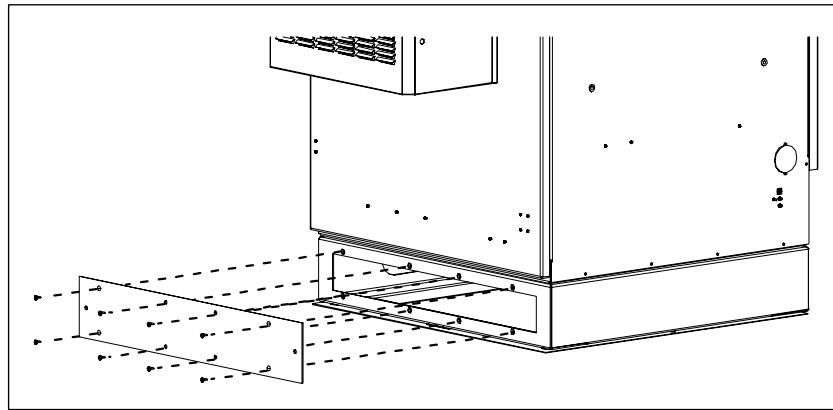
**Figure 9 Top of Plinth**



**Figure 10 Mount Plinth with Gasket and CUBE**

**2.4.5. Opening the Plinth**

To access the storage space inside the plinth, remove the plate on either the front or rear plinth panels by removing the screws from the outside (Figure 10). Reinstall the plate when finished.



**Figure 10 Access Storage Area**

**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](mailto: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 that 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](mailto:mktserv@charlesindustries.com) (email)  
[http://www.charlesindustries.com/main/telecom\\_sales\\_support.htm](http://www.charlesindustries.com/main/telecom_sales_support.htm)

**5. SPECIFICATIONS**

Physical	
Weight	Approx. 55 lbs. as shipped
Material	0.125" aluminum with steel structural channels
Color	Off-white
Touch-up Paint	02-000290-0

**Table 1 Kit Specifications**