

Charles 10” Plinth for CUBE-SC3NN12HNx 97-002499x-A

General Description and Installation

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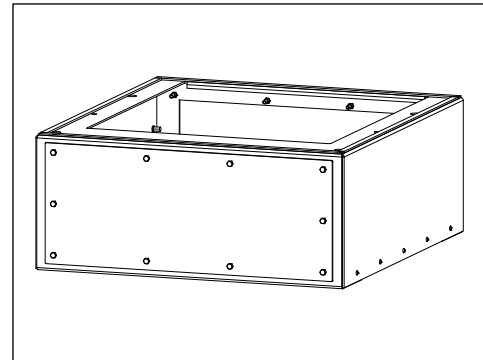


Figure 1 Kit Components

1. GENERAL INTRODUCTION

1.1. Document Purpose

This document provides general information for the 97-002499x-A 10” plinth kit for the CUBE-SC3NN12HNx cabinets. Figure 1 shows the kit. Mounting hardware is not shown.

-NOTE-
Hereafter, the Charles 97-002499x-A plinth kit will be referred to as the “kit.” The Charles CUBE-SC3NN12HNx will be referred to as the “CUBE.”

1.2. Product Purpose

The kit is intended for use in mounting the CUBE on a concrete or composite 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 or composite pad is customer supplied. Plinth dimensions are shown in Figure 2.

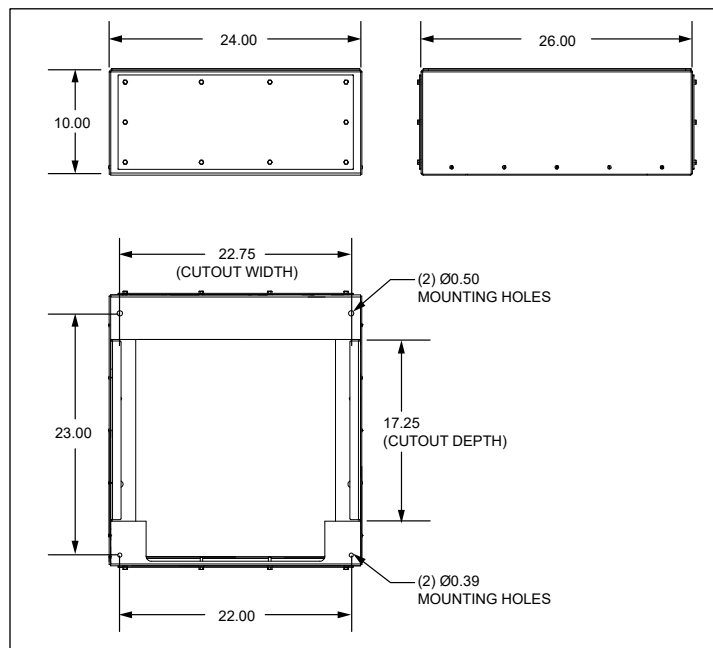


Figure 2 Dimensions (in inches)

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.

- 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

Mount the kit on a concrete or composite pad. Charles recommends the CPAD-M1 universal CPAD. A gasket is provided for mounting the kit on a concrete pad. If the gasket is damaged, order a new one under part number 80-006841-A. The gasket is not needed if mounting on a CPAD. Ensure that the unit is level.

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. Opening the Plinth

To access the mounting holes and the storage space inside the plinth, remove the front or rear cover panel by removing the ten bolts from the outside (Figure 3). Open the plinth to access the mounting holes when installing on a concrete or composite pad. Reinstall the plates when finished.

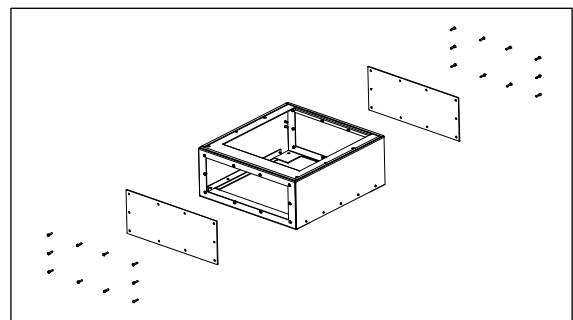



Figure 3 Open the Plinth

2.4.3. Constructing a New Pad

- Use only concrete for new pad construction. Do not use substitute materials since they lack the rigidity for CUBE placement.
- Observe local building practices for pad construction. Charles recommends that the pad should extend a minimum of 8” beyond the CUBE base on all sides.
- Use a minimum of 6” of sand or gravel as a base for the pad for leveling purposes.
- Figure 2 shows the required conduit openings and mounting hole dimensions for entering/mounting the bottom of the CUBE. Use these dimensions when designing the pad.

	WARNING	<p>When pad mounting, the compression strength of the pad must be at least 4000 psi as determined by ASTM C39 test of compression strength of concrete cylinders.</p> <p>The slump of the concrete shall be 2” to 4” as determined by ASTM C143 test method.</p>
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2.4.4. Mounting the Plinth with the CUBE

Four customer supplied, corrosion resistant, 1/2”-13 hex head bolts with anchors are required for mounting the kit to the concrete pad. Use the following steps for mounting.

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 4.
4. Position the kit 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. Ensure that the CUBE is parallel to the pad and plinth surface as it is placed onto the plinth and that it aligns with the holes in the plinth.
9. Lower the CUBE onto the plinth, ensuring that the mounting holes on the CUBE remain aligned with the holes on top of the plinth (Figure 4).
10. Secure the CUBE to the plinth using hardware that ships with the kit.
11. Close the CUBE door and replace the plinth panels.

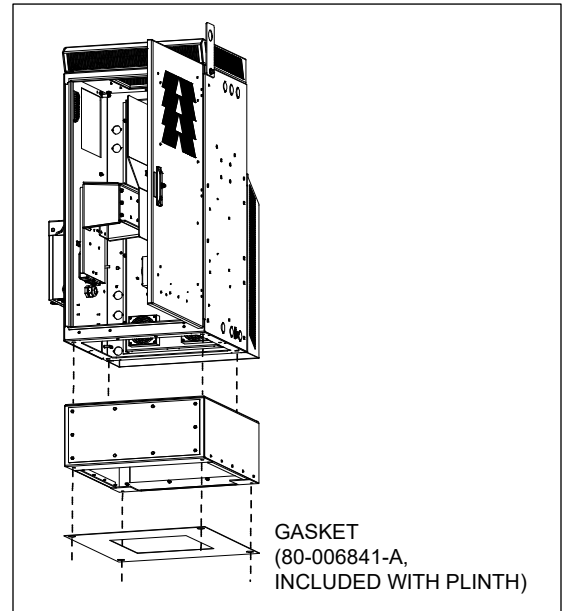


Figure 4
Mount Plinth with Gasket and CUBE

2.4.5. Mounting the Plinth on a CPAD

First, follow the instructions that ship with the CPAD to ensure that mounting holes are properly drilled into the top of the CPAD and that the CPAD is securely installed in the ground. Then proceed to mount the CUBE on the CPAD. Four customer supplied toggle bolts are required for mounting the CUBE to the CPAD. Use the following steps to mount the CUBE to a CPAD.

1. Clean any debris from the CPAD.
2. Position the kit so that the mounting holes in the plinth are aligned with those on the gasket and the pad.
3. Secure the plinth to the pad using four customer supplied, corrosion resistant, 1/2”-13 hex head bolts with anchors.
4. See the instructions that ship with the CUBE for lifting and moving the CUBE.
5. Open the CUBE door to allow access to mounting holes.
6. Ensure that the CUBE is parallel to the pad and plinth surface as it is placed onto the plinth and that it aligns with the holes in the plinth.
7. Lower the CUBE onto the plinth, ensuring that the mounting holes on the CUBE remain aligned with the holes on top of the plinth.
8. Secure the CUBE to the plinth using hardware that ships with the kit.
9. Close the CUBE door and replace the plinth panels.

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 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 (email)
http://www.charlesindustries.com/main/telecom_sales_support.htm

5. SPECIFICATIONS

Physical	
Weight	Approx. 22 lbs. as shipped
Material	0.125" aluminum
Color	Off-white
Touch-up Paint	02-000290-0
Optional Universal CPAD Composite Pad	CPAD-M1xxUNI Series
Replacement Gasket	80-006841-a

Table 1 Kit Specifications