

Charles 6” Plinth for MC Series Modular Cabinets

97-MC1PLINTH6-A and 97-MC3PLINTH6-A

General Description and Installation

- 1. GENERAL INTRODUCTION1
 - 1.1. Document Purpose1
 - 1.2. Product Purpose.....1
- 2. INSTALLATION2
 - 2.1. Inspecting the Product.....2
 - 2.2. Following and Using Safety Precautions.....2
 - 2.3. Obtaining Tools and Equipment.....2
 - 2.4. Mounting the Kit.....2
- 3. TECHNICAL ASSISTANCE AND REPAIR SERVICE5
- 4. WARRANTY & CUSTOMER SERVICE5
- 5. SPECIFICATIONS.....5

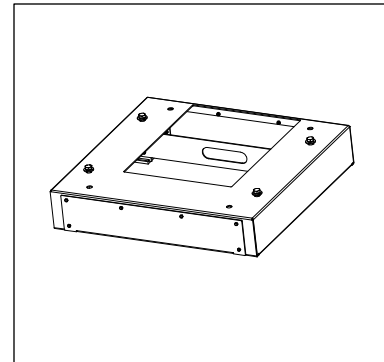


Figure 1 Plinth

1. GENERAL INTRODUCTION

1.1. Document Purpose

This document provides general information for the 97-MC1PLINTH6-A and 97-MC3PLINTH6-A 6” plinth kits for the MC-1, MC-2, and MC-3 Series Modular Cabinets. Figure 1 shows the plinth. Hardware is not shown.

-NOTE-

Hereafter, the Charles 97-MC1PLINTH6-A and 97-MC3PLINTH6-A 6” plinth kits will be referred to as the “kit.” The Charles MC-1, MC-2, and MC-3 Modular Cabinets will be referred to as the “MC.”

1.2. Product Purpose

The 97-MC1PLINTH6 is used with MC-1 series cabinets. The 97-MC3PLINTH6 is used with MC-2 and MC-3 series cabinets.

The kit includes a plinth designed to mount underneath the MC on a concrete pad. The plinth provides a storage space for cable slack and elevates the enclosure off the ground to protect it from rain or snow. The MC series cabinets are available with up to four bays. A separate plinth is required for each bay.

The kit can be used with both MC battery and equipment bays. The kit is shipped configured for an equipment bay. If using with a battery bay, a modification is needed (see the Preparing the Plinth section of this document).

Plinth dimensions are shown in Figure 2.

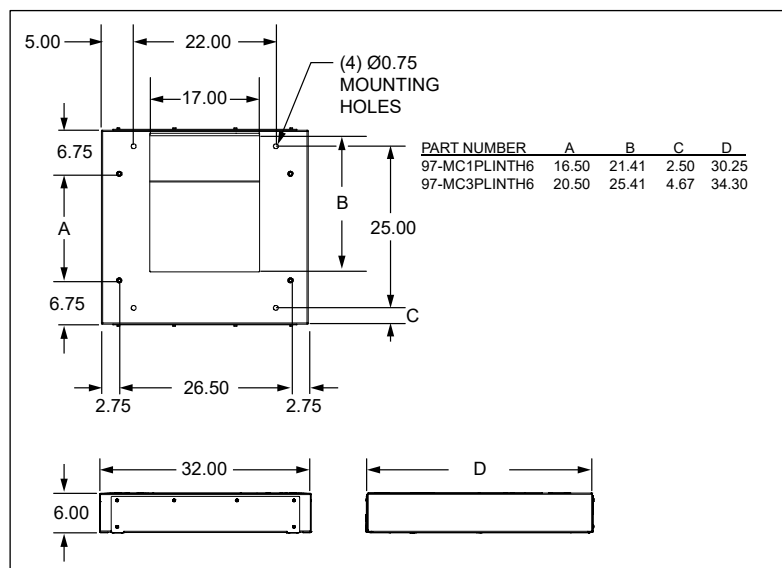


Figure 2 Plinth Dimensions

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
- Any exterior cable strain relief, per company practice
- Ratchet with 3/4" deep well socket
- Torque wrench

2.4. Mounting the Kit

In this section, the 97-MC1PLINTH6-A and an MC-1 cabinet are used in all views. The 97-MC3PLINTH6 is installed in the same manner.

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 Plinth

First, remove the front and rear panels from the plinth to better access the mounting holes (Figure 3). Save the cover plates and hardware for later re-installation.

The plinth has a support assembly inside. The support assembly is shipped in the configuration needed for an equipment bay. If the kit is mounted under a battery bay, then the support assembly must be modified.

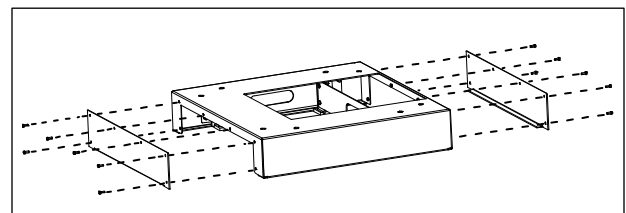


Figure 3
Remove Front and Rear Panels

2.4.3. Modifying the Support Assembly (for Battery Bays Only)

1. Remove the assembly from the inside of the plinth (Figure 4). Set aside the mounting hardware. This hardware will be used to secure the MC bay to the plinth. The components of the support assembly are labeled in Figure 5.

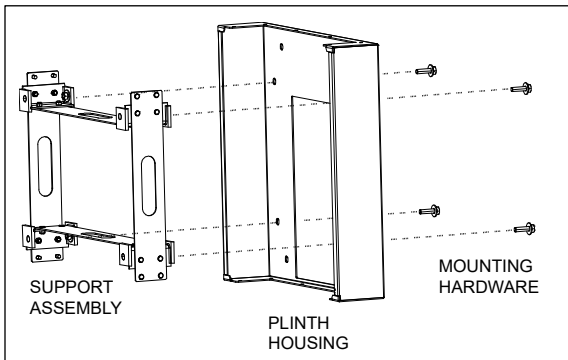


Figure 4
Remove Support Assembly

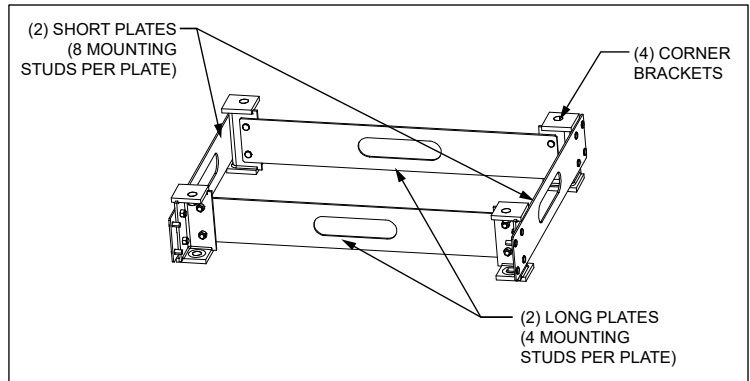


Figure 5
Support Assembly Components

2. Disassemble the support assembly as shown in Figure 6.
3. Take two corner brackets and one long plate. Attach them as shown in Figure 7. Note the orientation of the corner brackets.
4. Repeat with the second long plate and remaining corner brackets.
5. Attach the short plates to the inside faces of the corner brackets as shown in Figure 8. Use the outer most pairs of mounting studs to attach to the corner brackets.

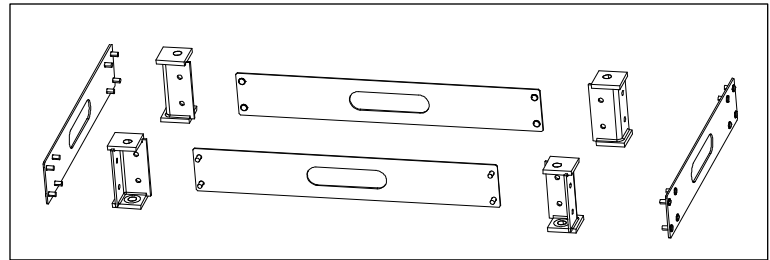


Figure 6
Disassemble Support Assembly

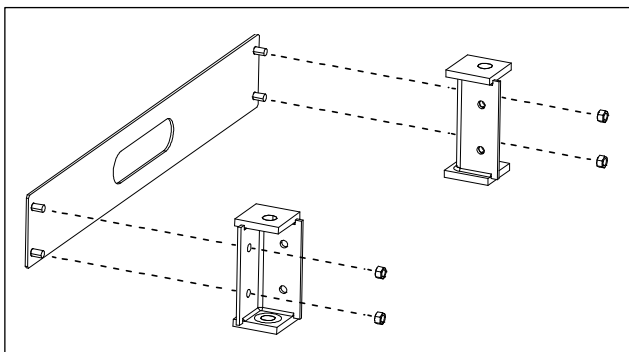


Figure 7
Attach Long Plates to Corner Brackets

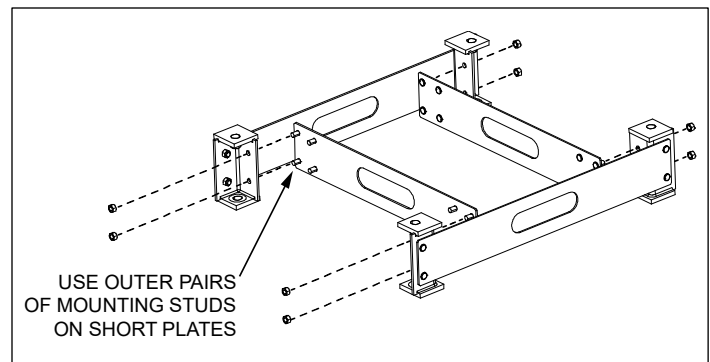


Figure 8
Attach Short Plates

2.4.4. Installing the Kit

First, prepare the concrete pad according to the instructions that ship with the MC series Modular Cabinet.

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

A two-bay MC-1 cabinet is shown here as an example (one equipment bay and one battery bay). 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".
2. Clean any debris from the concrete pad.
3. Install the gasket(s) (included with the MC cabinet) by positioning on the pad with all mounting holes aligned with the holes on the pad.
4. Position the plinth support assembly so that the mounting holes in the bottom of the supports are aligned with those on the gasket and the pad as shown in Figure 6.
5. Lower the plinth housing onto the support assemblies, aligning the mounting holes.
6. Secure the plinth to the pad using four customer supplied, corrosion resistant, 1/2"-13 hex head bolts with anchors.
7. See the instructions that ship with the MC cabinet for lifting and moving the MC. Open the MC door(s) to allow access to the mounting holes.
8. Lower the MC onto the plinth, ensuring that the mounting holes on the MC are aligned with the holes on top of the plinth (Figure 6).
9. Secure the MC to the plinth using the 1/2" hardware that ships with the kit. Use a 3/4" deep well socket.
10. Re-attach the front and rear panels onto the plinth.

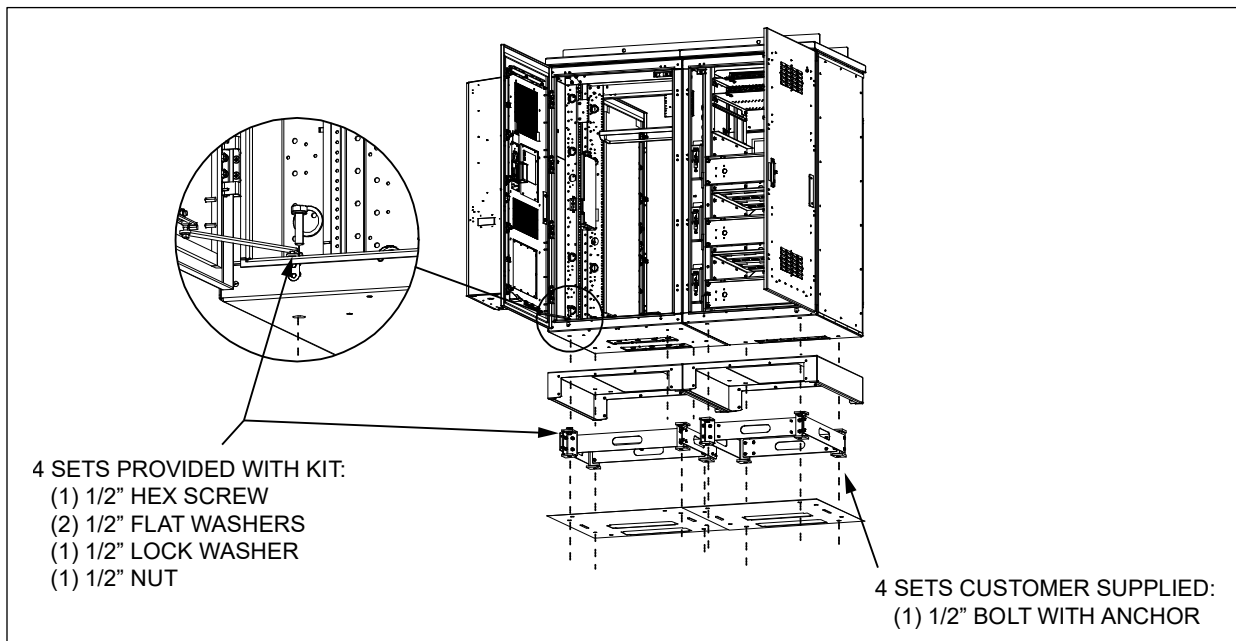


Figure 6
Mount Plinth with Gasket and Cabinet

2.4.5. Mounting the Kit on a CPAD

The MC can also be mounted on a Charles composite mounting pad. The gaskets are not needed if mounting on a CPAD. See the list below for CPAD part numbers.

1-bay cabinet	CPAD-M1BUNI4036
2-bay cabinet	CPAD-M2BUNI7836
3-bay cabinet	CPAD-M2BUNI7836 pad with CPAD-M1EUNI4036 extension
4-bay cabinet	CPAD-M2BUNI7836 pad with CPAD-M1EUNI7836 extension

See the mounting instructions in the documentation that ships with the MC cabinet for more information.

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	
Dimensions	97-MC1PLINTH6: 6"Hx32"Wx30"D 97-MC3PLINTH6: 6"Hx32"Wx34"D
Weight	97-MC1PLINTH6: Approx. 44 lbs. as shipped 97-MC3PLINTH6: Approx. 45 lbs. as shipped
Material	Plinth housing: 0.125" aluminum Support assembly: steel
Color	Off-white
Touch-up Paint	02-000290-0

Table 1 Kit Specifications