

Expanded Base Installation Guide for Charles CP212-EP Pedlock® Secondary Distribution Pedestal





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1 GENERAL INTRODUCTION

1.1 Document Purpose

This document provides general installation instructions for the CP212-EP series pedestals (and variants) designed for above-grade secondary power distribution networks. Please follow company-specific installation practices.

1.2 Document Status

Whenever this document is updated, the reason will be stated in this paragraph.

Print 1 – First release of document.

1.3 Product Purpose

The Charles Pedlock® pedestal is an above-grade device that provides environmental protection for buried cables. Charles' free-breathing pedestal offers superior OSP protection against flood, fire, dirt, weather, salt-fog, insects, and impact. The pedestal's expanded capacity, split base can be opened to install around less flexible cables, inner-duct, or conduit-fed cable bundles in new construction, around existing cable or conduit in pedestal replacement or rehabilitation applications. The square design and ribbed walls provide extra stability.

1.4 Product Mounting and Location

The pedestal base is installed (per local practice) in a trench or hole in the ground, up to the Ground Line (GL) indicator (see Figure 1). When the base is installed, the pedestal is easily secured with the overlapping outer dome. The outer dome is secured to the base with an interlocking dome tab and threaded penta-head lock, which can be secured to the pedestal base using the integrated hasp bracket along with a user-supplied locking device.

ightarrow -grounding warnings ightarrow

Always follow local codes and company practices for performing proper cable and site bonding and grounding. Perform all bonding and grounding prior to fiber, electrical, and communications connections.

-CABLE WARNINGS-

Be careful not to damage any buried cables or service wires while digging either to expose cables or to prepare a hole or trench, or while driving stakes.

-BODILY HARM WARNINGS-

Cable components may be very sharp. Extreme caution should be taken to prevent personal injury. Protective work gloves are recommended when handling electrical cable.

2 INSTALLING THE PEDESTAL BASE

Follow the steps in Table 1 to install a Charles expanded pedestal base in a trench. Follow company practice regarding bonding/grounding procedures.

| Step | Instruction |
|------|---|
| 1 | Prepare trench. Be careful not to damage any buried cables or wires while digging. Dig and prepare the cable trench, per local company practices. |
| 2 | Establish an earth ground. Verify an earth ground is accessible and available at or near the pedestal base installation site. |
| 3 | Place cables, conduit, or inner-duct into trench. Place or lay cable/conduit in the trench per local practice. In the final position, conduit height should be 1.5 inches below the bottom of the base collar, but no higher than the bottom of the collar. Note: The most accurate cut can be made after the base has been set to its proper depth. |
| 4 | Unpack and inspect equipment. Unpack and inspect the pedestal. Remove the pedestal from the shrink wrap/skid and inspect for damage. If the equipment has been damaged in transit, immediately report the extent of the damage to the distributor or carrier. |
| 5 | Obtain tools, materials and equipment. Assemble the following tools and equipment to perform the pedestal base installation. Penta-head wrench Level Clean, dry, pea gravel (approved 3/8"-5/8" diameter only) Tape measure Hammer/mallet Safety glasses Work gloves Cable grounding materials and equipment Soil tamping tool(s) |

Table 1Installing an Expanded Pedestal Base



| Step | Instruction | | |
|------|--|--|--|
| 6 | Remove dome from base. Using a penta-head wrench, turn counter-clockwise until the spring-loaded penta bolt floats freely. Grasp the dome and slightly twist the entire dome counter-clockwise to unlatch the dome's rear lock feature. Then lift the dome off the pedestal. | | |
| 7 | Open the base (optional). With the dome removed, the two halves of the base can be separated by lifting up the front half of the base (Charles Logo) out of its alignment pins and away from the rear half. | | |
| 8 | Remove knockouts (if required). Generally, the stake, if used, is attached at the rear of the base, which has the knockouts already removed for use with the Charles Universal Mounting Stakes (UMSxx-STD). For different mounting positions, the knockouts may need to be removed. | | |
| | around the knockout. After the blade has been pushed through the material at these locations, remove the knockout. CAUTION: Do not use a hammer or punch to remove. | | |
| 9 | Install mounting stake. Install the mounting stake as shown in Figure 5. Attach the stake to the base by aligning the mounting to the desired knockouts. Next, press the stake to the outside of the base and insert the bolts into the base holes from the out Place a 2" diameter washer and lock washer onto each bolt. Tighten bolt to a maximum of 75 in- lbs. Use only the supplied galvanized hardware. | | |
| | Top View of Stake | | |
| 10 | Assemble the base. If the cable tails can fit through the base collar, the two halves can be assembled prior to positioning the base. | | |
| 11 | Lift the front half over and onto the four alignment pins. Determine base installation location. Position the base in the approximate desired position in the trench. The front or drop side of the base (Charles logo) generally faces the street. Using either the back half of the base or the entire assembly, position the feed cables/conduit toward the rear of the base. | | |
| 12 | Place/prepare earth ground. Always follow local codes and company practice when preparing earth ground and when grounding cables/equipment. Per local company practice, prepare an earth ground for the pedestal at or near the base. | | |
| 13 | Position and level base in trench and begin backfill. Position the base and level per company practice. | | |
| | Note: Maintain a level base as backfill is being added and tamped. Once the cables/conduit has been positioned, the base can be placed in the trench with the optional attached stake (see Figure 5 and Step 9). | | |
| | As the trench is backfilled, periodically tamp the soil, always pushing the soil toward the base. This practice will help remove air from the backfill soil, making settling less likely to occur (see Figure 6). The base is designed to maintain its orientation after installation; therefore, it is important to verify that the base is level during the entire installation procedure. | | |
| | Note: Should it be necessary to straighten a pedestal at any future time (such as in the event of uneven ground settling), never attempt to straighten an installed pedestal by manipulating, pushing, or pulling on the attached dome, as pedestal damage may result. To re-plumb and straighten a pedestal after initial installation, first remove the soil from around the base, then re-adjust the base until a proper level is achieved. | | |





| Feature | 12" pedestal | |
|--------------------------------------|--------------|--|
| Height, base only, incl. collar | 18.5 in. | |
| Height, base bottom to ground line | 8.5 in. | |
| Height, dome top to ground line | 35 in. | |
| Depth, base (front to back) | 15.1 in. | |
| Width, base (side to side) | 16.1 in. | |
| NOTE: All dimensione are approximate | | |

NOTE: All dimensions are approximate

3 CUSTOMER TECHNICAL SERVICE

If technical assistance or customer service is required, contact Charles Industries by calling or using one of the following options:

| 847-806-8500 (Tech_Service local) | 847-806-6300 (Customer Service) |
|--|---------------------------------------|
| | |
| 800-607-8500 (Tech Service toll-free) | 847-806-6653 (Customer Service EAX) |
| 000-007-0300 (Tech. Service toll-free) | 047-000-0000 (Customer Dervice FAX) |
| 847 806 8556 (Toch Sorvice EAX) | mkteory@charlosindustrios.com (omail) |
| 047-000-0550 (Tech. Service FAX) | Inkiselv@chanesindustnes.com (email) |
| toobaan (@ abarlagin duatrica | www.eberlegindustrieg.com (website) |
| techserv@chanesindustnes.com (email) | www.chanesindustnes.com (website) |