CLIPPERCREEK

A division of Enphase Energy, Inc.

PEDESTAL EXTENSION KIT INSTALLATION GUIDE

PLEASE NOTE

This installation guide includes the latest information at the time of printing. Enphase Energy, Inc. reserves the right to make changes to this product without further notice. Changes or modifications to this product by other than an authorized service facility may void the product warranty.

Before Beginning

Read these instructions completely, including the Safety Instructions. If there are questions about the use of this product, please contact a Service Representative.

Note to the Installer

Some illustrations have been changed to grayscale to show detail for easier assembly. Your configurations may vary slightly from what is depicted in this manual. Be sure to leave these instructions with the user.

Note to the User

Keep these instructions for further reference.

WARNING: This product can expose you to chemicals, including Carbon Black, which is known to the State of California to cause cancer. For more information go to: www.P65Warnings.ca.gov

Download or view the most recent version of this Installation Guide at:
ClipperCreek.com/installation-manuals

Pedestal Extension Kit Installation Guide, Version 6, March 2022

Manual Number: 7004-0020-B

CONTENTS

FIGURES

IMPORTANT SAFETY INSTRUCTIONS

ClipperCreek Electric Vehicle Supply Equipment (EVSE) is designed with the safety concerns of the end user as an utmost priority; however, the following safety precautions must be read and followed:

- The EVSE and electrical wiring should be installed by a qualified electrician in accordance with local electrical codes and ordinances.
- Grounding Instructions - The EVSE should be connected to a grounded, metal, permanent wiring system; or an equipment-grounding conductor should be run with circuit conductors and connected to a grounding terminal or lead on the EVSE. Connections to the EVSE should comply with all local electrical codes and ordinances.
- Call the local service provider anytime a procedural question arises; **DO NOT** attempt to perform a procedure you are unsure of.
- Read all installation instructions carefully before performing the pedestal and EVSE installation.

INSTALLATION REQUIREMENTS

Required Equipment for a Single-Mount Pedestal and Extension with *one* EVSE (One EVSE per Pedestal):

- One (1) ClipperCreek Single-Mount Pedestal Extension Kit
- One (1) ClipperCreek EVSE Pedestal Kit (specific to HCS Series or CS Series EVSE)
- One (1) ClipperCreek HCS or CS EVSE **NOTE: 18 foot cables on the HCS and CS stations are recommended for use with the Extension Kits. Please request this option at time of purchase.**
- One (1) dedicated 208V or 240V AC branch circuit
- One (1) circuit breaker appropriately sized for the EVSE charging capacity [1]
- Two (2) Live Line conductors with enough length to comfortably pull all the way through and above the top of the pedestal[2]
- One (1) Ground Line conductor with enough length to comfortably pull all the way through and above the top of the pedestal[2]
- Conduit sized to fit all three conductors
- Four (4) Anchor Bolts with Nuts and Washers

Required Equipment for a Dual-Mount Pedestal and Extension with *two* EVSE (Two EVSE per Pedestal):

- One (1) ClipperCreek Dual-Mount Pedestal Extension Kit
- One (1) ClipperCreek Pedestal Kit (specific to HCS Series or CS Series EVSE)
- One (1) ClipperCreek Dual-Mount Kit (specific to HCS Series or CS Series EVSE)
- Two (2) ClipperCreek HCS or CS EVSE **NOTE: 18 foot cables on the HCS and CS stations are recommended for use with the Extension Kits. Please request this option at time of purchase.**
- Two (2) dedicated 208V or 240V AC branch circuits
- Two (2) circuit breakers, appropriately sized with respect to the charging capacity of each EVSE [1]
- Two pairs (2x2) Live Line conductors (one pair for each EVSE) with enough length to comfortably pull all the way through and above the top of the pedestal[2]
- Two (2) Ground Line conductors (one for each EVSE) with enough length to comfortably pull all the way through and above the top of the pedestal or a single bonded Ground Line[2]
- Conduit sized to fit all Live Line and Ground line conductors
- Four (4) Anchor Bolts with Nuts and Washers

[1] *Refer to the EVSE documentation to determine the appropriate circuit breaker current capacity.*

[2] *All conductors must be appropriately sized for the EVSE current capacity, in accordance with local and NEC electrical codes.*

Required Equipment for a Quad-Mount Pedestal and Extension with *four* EVSE (Four EVSE per Pedestal):

- One (1) ClipperCreek Dual-Mount Pedestal Extension Kit
- One (1) ClipperCreek Pedestal Kit (specific to HCS Series EVSE)
- One (1) ClipperCreek Quad-Mount Kit (HCS Series only)
- Four (4) ClipperCreek HCS EVSE **NOTE: 18 foot cables on the HCS stations are recommended for use with the Extension Kits. Please request this option at time of purchase.**
- Four (4) dedicated 208V or 240V AC branch circuits
- Four (4) circuit breakers, appropriately sized with respect to the charging capacity of each EVSE [1]
- Four pairs (4x4) Live Line conductors (one pair for each EVSE) with enough length to comfortably pull all the way through and above the top of the pedestal[2]
- Four (4) Ground Line conductors (one for each EVSE) with enough length to comfortably pull all the way through and above the top of the pedestal or a single bonded Ground Line[2]
- Conduit sized to fit all Live Line and Ground line conductors
- Four (4) Anchor Bolts with Nuts and Washers

[1] *Refer to the EVSE documentation to determine the appropriate circuit breaker current capacity.*

[2] *All conductors must be appropriately sized for the EVSE current capacity, in accordance with local and NEC electrical codes.*

TOOLS REQUIRED FOR ASSEMBLING THE PEDESTAL EXTENSION KIT (HCS and CS Series EVSE)

The following tools are required for the installation and assembly of the pedestal components.

- T27 Torx Driver **(If using a powered screwdriver, set it to a low torque value.)**
- #2 Phillips Head Screwdriver
- ¼" Slotted Screwdriver
- 5⁄16" Hex Head Wrench
- Box Wrench (appropriately sized for the Anchor Nuts)
- Tube of Silicone Sealant (CS Series only)
- **Recommended: Ladder or step stool as final assembly stands 7' tall**
- **Recommended: Two people for installation**

ADDITIONAL TOOLS REQUIRED FOR WIRING (CS Series EVSE Only)

The following tools are required for wiring the service conductors to a CS Series EVSE rated for a branch circuit of *up to* 60A.

- T15 or T20 Torx Driver (depending on your CS model, for EVSE Door Access)
- 3⁄16" Flathead Screwdriver (for Ground Block Lug)
- ¼" Flathead Screwdriver (for Contactor Lugs)

The following tools are required for wiring the service conductors to an EVSE rated for a branch circuit *greater than* 60A.

- T15 or T20 Torx Driver (depending on your CS model, for EVSE Door Access)
- 3⁄16" Hex Head Screwdriver (for Ground Block Lug)
- 5⁄32" Hex Head Wrench (for Contactor Lugs)

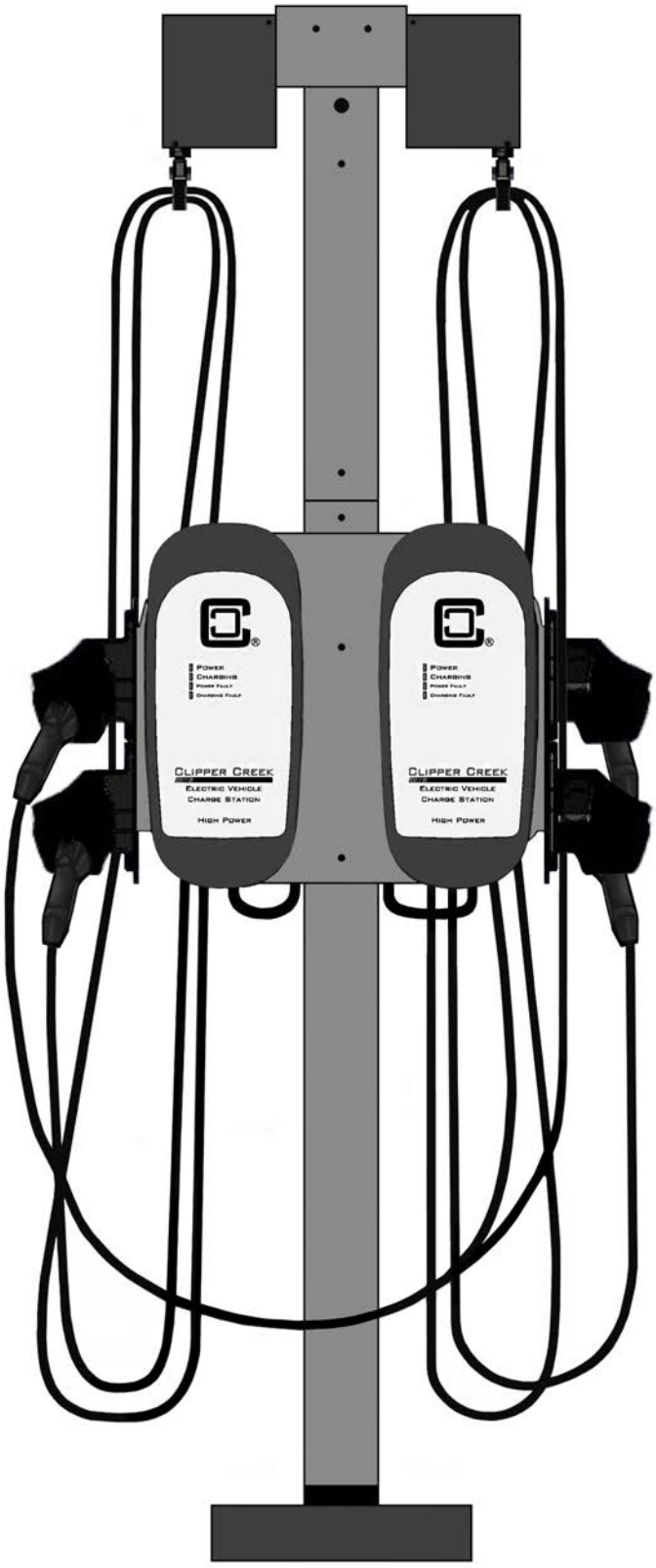
CONFIGURATIONS FOR HCS SERIES

Figure 1: Single-Mount HCS Configuration (designed for use with 18' cables)

Figure 2: Dual-Mount HCS Configuration (designed for use with 18' cables)

CONFIGURATIONS FOR HCS SERIES (continued)

Figure 3: Quad-Mount HCS Configuration (designed for use with 18' cables)



PEDESTAL DIMENSIONS FOR HCS SERIES

Figure 4: Pedestal Base Dimensions for HCS EVSE

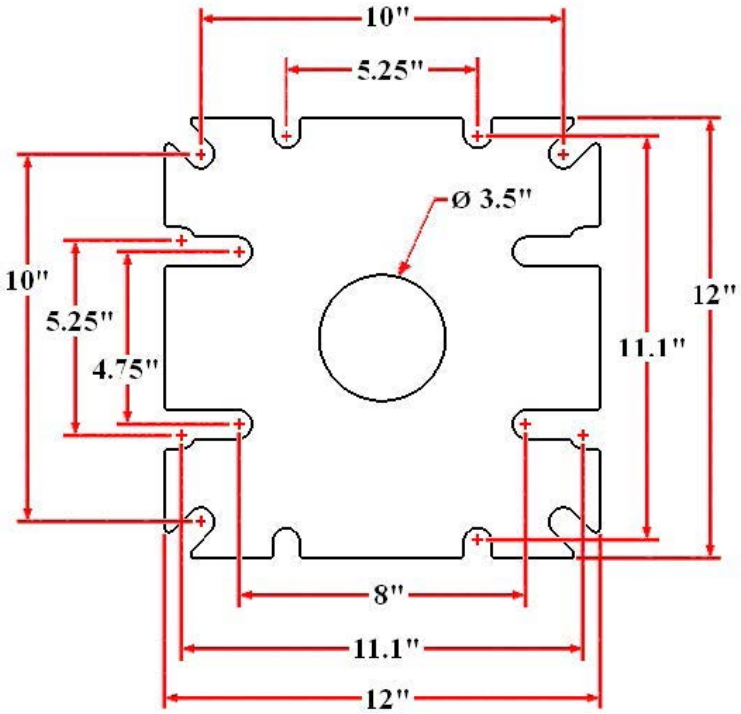
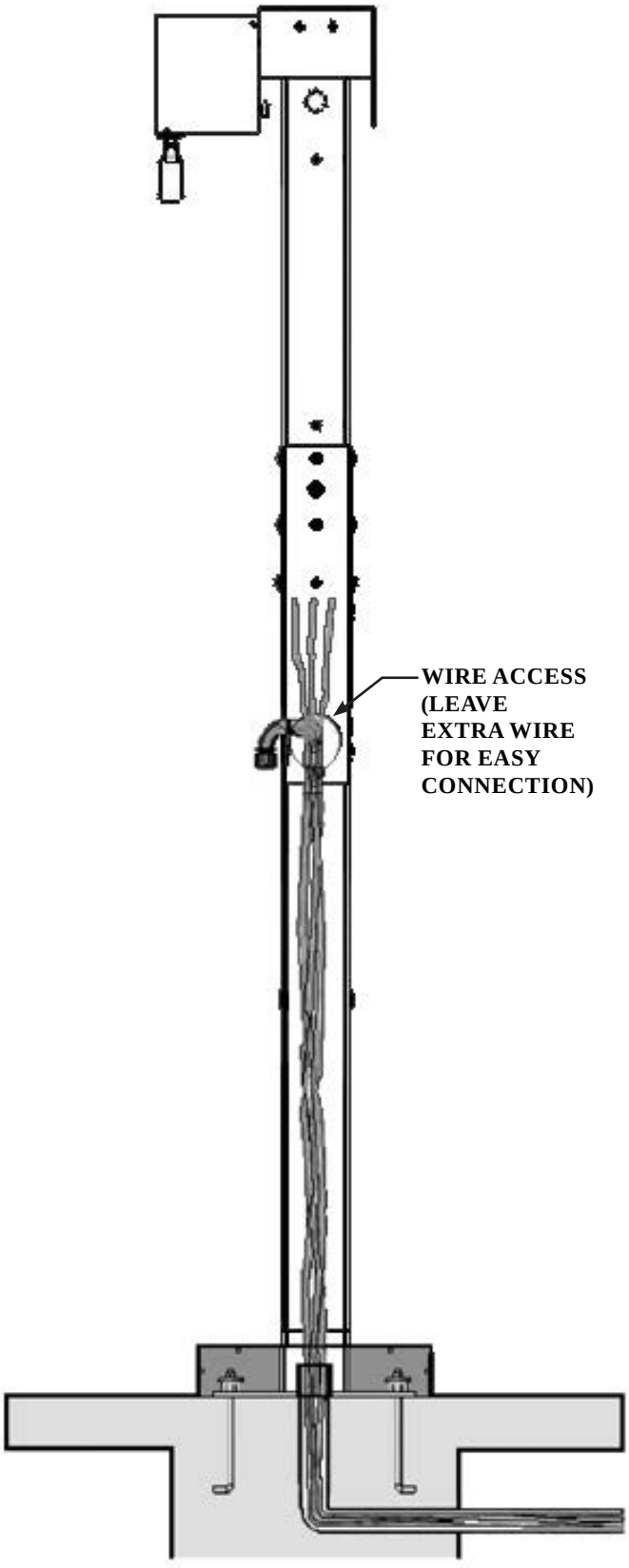


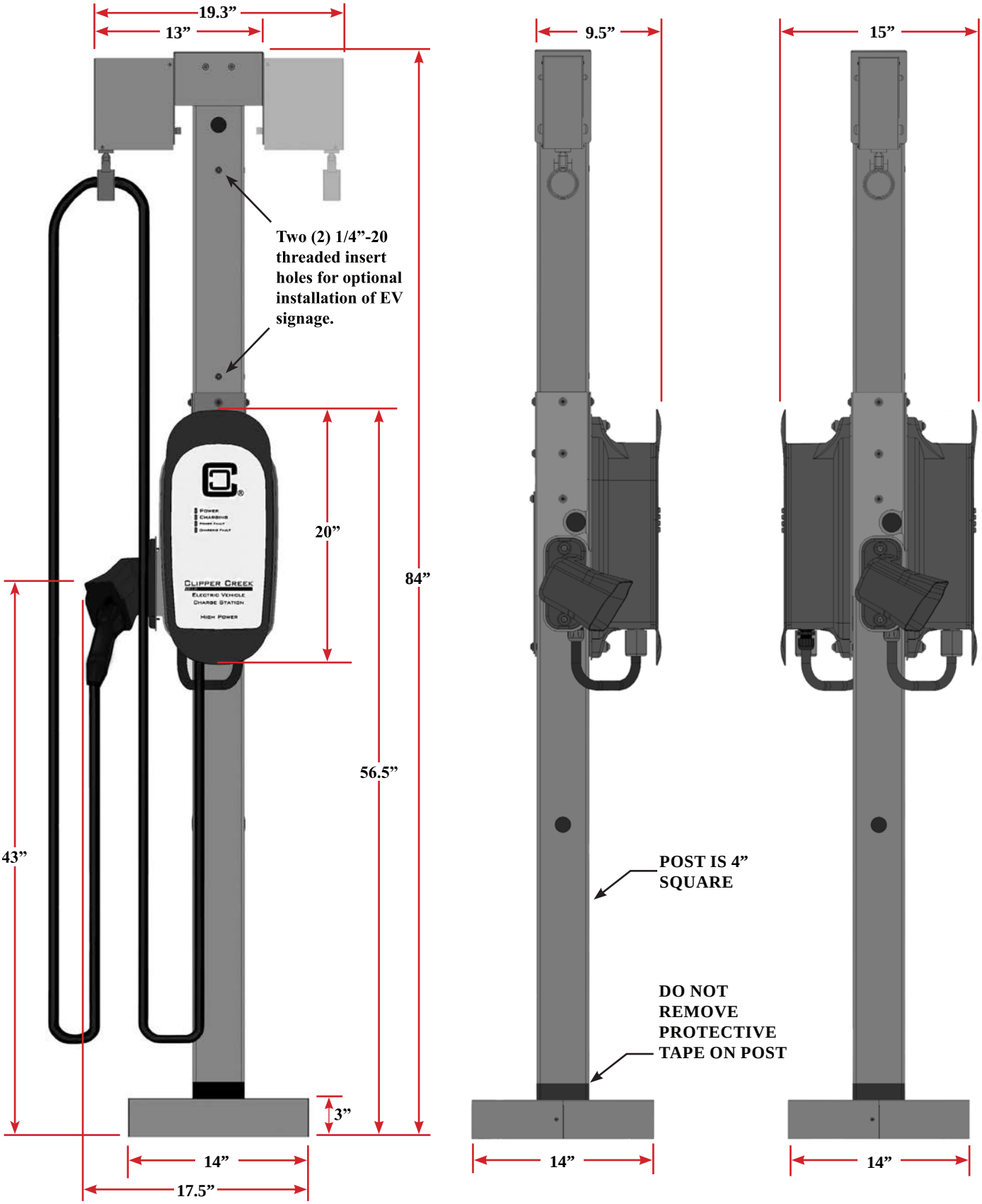
Figure 5: An Installation Cross-Section of a Single-Mount HCS EVSE Pedestal Extension



NOTES:

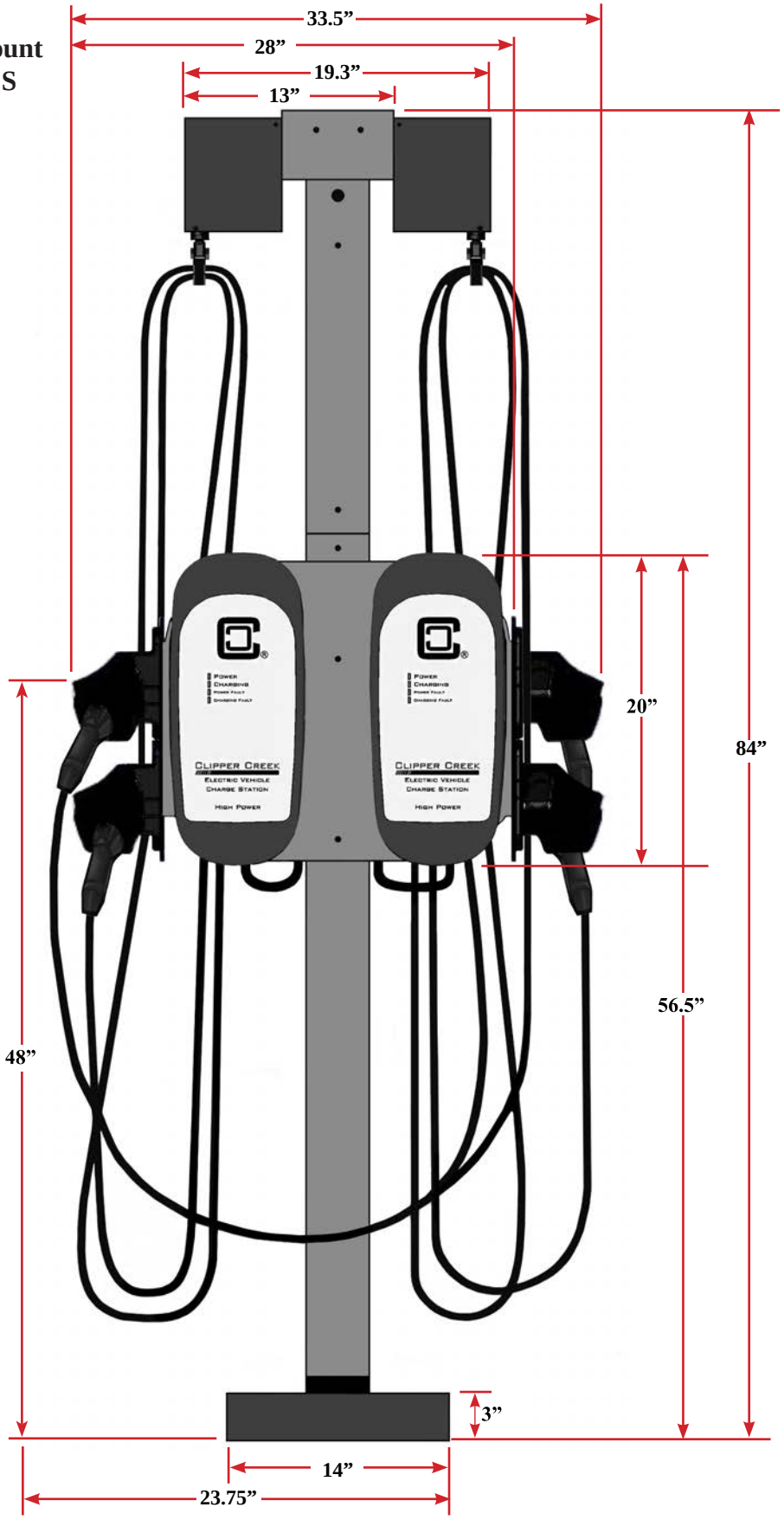
PEDESTAL DIMENSIONS FOR HCS SERIES (continued)

Figure 6: Pedestal Dimensions for Single-Mount and Dual-Mount HCS Installations



PEDESTAL DIMENSIONS FOR HCS SERIES (continued)

Figure 7: Pedestal Dimensions for Quad-Mount Installations (4 single HCS or 2 HCS-D EVSE)



PACKING LISTS FOR HCS SERIES

0300-00-029 HCS Pedestal Kit, Standard 4 Foot, Single Mount

Part Number	Quantity	Description
1003-0014	1	Pedestal Metalwork, Cap with Rear Flange (not needed with extension kit) **NOTE:** This item may already be attached to the top of the pedestal
1003-0023	2	Pedestal Metalwork, Base Cover
1003-0032	1	Pedestal Metalwork, 4-Foot Post
1003-0037	1	Pedestal Metalwork, Hole Cover Plate
1003-0039	1	Pedestal Metalwork, HCS EVSE Mounting Plate, Rev B
4000-0005	2	Machine Screw, Pan Head, 8-32 Size, ½" Length, Phillips
4000-0010	4	Machine Screw, Tapered Flat Head, 6-32 Size, ⅜" Length, Phillips
4000-0011	3	Machine Screw, Tapered Flat Head, ¼" -20 Size, ¾" Length, T27 Torx
4000-0012	2	Machine Screw, Button Head, ¼" -20 Size, 1" Length, T27 Torx
4000-0019	2	Machine Screw, Button Head, ¼" -20 Size, 2" Length, T27 Torx
4002-0001	2	Washer, #8, Zinc, 3/16" ID
4002-0002	4	Washer, Galvanized Steel, Neoprene Bonded Seal, ¼" ID
4002-0004	1	Washer, Liquid Tight Sealing, Thermoplastic, ½"
4013-0009	1	Pedestal Conduit Assembly, Standard 90 degree ½" NPT Fitting
4015-0000	4	Plug, Plastic Push-In, 1-3/32" ID (installed)
4015-0001	2	Plug, Plastic Push-In, 1-⅜" ID (installed)
4015-0004	2	Plug, Plastic Push-In, ⅞" ID (installed)
4015-0010	1	Plug, Plastic Push-In, Flush Head, Black, ⅞" ID (installed)

0300-00-030 HCS Dual-Mount Kit for Standard 4 Foot Pedestal (optional)

Part Number	Quantity	Description
1003-0015	1	Pedestal Metalwork, Cap without Rear Flange (not needed with extension kit)
1003-0039	1	Pedestal Metalwork, HCS EVSE Mounting Plate, Rev B
4000-0005	2	Machine Screw, Pan Head, 8-32, ½" Length, Phillips
4000-0011	1	Machine Screw, Tapered Flat Head, ¼"-20 Size, ¾" Length, T27 Torx
4000-0012	2	Machine Screw, Button Head, ¼"-20 Size, 1" Length, T27 Torx
4000-0019	2	Machine Screw, Button Head, ¼"-20 Size, 2" Length, T27 Torx
4002-0001	2	Washer, #8, Zinc, 3/16" ID
4002-0002	4	Washer, Galvanized Steel, Neoprene Bonded Seal, ¼" ID
4002-0004	1	Washer, Liquid Tight Sealing, Thermoplastic, ½"
4013-0009	1	Pedestal Conduit Assembly, Standard 90 degree ½" NPT Fitting
4015-0010	1	Plug, Plastic Push-In, Flush Head, Black, ⅞" ID (installed)

PACKING LISTS FOR HCS SERIES or CS SERIES

0300-00-027 Single-Mount Pedestal Extension Kit for HCS or CS

Part Number	Quantity	Description
1003-0002	1	Pedestal Post Extension
1003-0003	2	Post Splice Bracket
1003-0004	4	Spacer Plate
1003-0005	2	Base Stiffener
1003-0006	1	Top Retractor Mount
4000-0011	4	Machine Screw, Tapered Flat Head, ¼”-20 Thread, ¾” Length, T27 Torx
4000-0012	10	Machine Screw, Button Head, ¼”-20 Size, 1” Length, T27 Torx
4000-0014	2	Hex Head Cap Screw ⅜”-16 Thread, ¾” Length
4000-0015	4	Machine Screw, Button Head, ¼”-20 Size, 1-¼” Length, T27 Torx
4002-0002	14	Washer, Galvanized Steel, Neoprene Bonded Seal, ¼” ID
4002-0006	2	Split Lock Washer ⅜” Screw Size
4005-0002	1	Cable Clamp Package B with hardware: includes one (1) Cable Clamp B, four (4) #5 Phillips screws ⅝” long, one (1) 10-32 x 1¼” long, screw, and one (1) 10-32 nut
4015-0000	2	Plug, Plastic Push-In, Black, 1-3⁄32” ID (installed)
4015-0005	2	Plug, Plastic Push-In, Black, ½” ID (installed)
5609-0000	1	Cable Retractor Box with Cable Clamp Package A: includes one (1) Cable Clamp A, four (4) #5 Phillips screws ⅝” long, one (1) 10-32 x 1¼” long screw, and one (1) 10-32 nut

0300-00-028 Dual-Mount Pedestal Extension Kit for HCS or CS (optional)

Part Number	Quantity	Description
1003-0002	1	Pedestal Post Extension
1003-0003	2	Post Splice Bracket
1003-0004	4	Spacer Plate
1003-0005	2	Base Stiffener
1003-0006	1	Top Retractor Mount
4000-0011	4	Machine Screw, Tapered Flat Head, ¼”-20 Thread, ¾” Length, T27 Torx
4000-0012	10	Machine Screw, Button Head, ¼”-20, 1” Length, T27 Torx
4000-0014	4	Hex Head Cap Screw ⅜”-16 Thread, ¾” Length
4000-0015	8	Machine Screw, Button Head, ¼”-20 Size, 1-¼” Length, T27 Torx
4002-0002	18	Washer, Galvanized Steel, Neoprene Bonded Seal, ¼” ID
4002-0006	4	Split Lock Washer ⅜” Screw Size
4005-0002	2	Cable Clamp Package B with hardware: includes one (1) Cable Clamp B, four (4) #5 Phillips screws ⅝” long, one (1) 10-32 x 1¼” long, screw, and one (1) 10-32 nut
4015-0000	2	Plug, Plastic Push-In, Black, 1-3⁄32” ID (installed)
4015-0005	2	Plug, Plastic Push-In, Black, ½” ID (installed)
5609-0000	2	Cable Retractor Box with Cable Clamp Package A: includes one (1) Cable Clamp A, four (4) #5 Phillips screws ⅝” long, one (1) 10-32 x 1¼” long screw, and one (1) 10-32 nut

0300-00-036 Quad-Mount Pedestal Extension Kit for HCS only (optional)

Part Number	Quantity	Description
1003-0002	1	Pedestal Post Extension
1003-0003	2	Post Splice Bracket
1003-0004	4	Spacer Plate
1003-0005	2	Base Stiffener
1003-0006	1	Top Retractor Mount
4000-0011	4	Machine Screw, Tapered Flat Head, ¼”-20 Thread, ¾” Length, T27 Torx
4000-0012	10	Machine Screw, Button Head, ¼”-20 Size, 1” Length, T27 Torx
4000-0014	8	Hex Head Cap Screw ⅜”-16 Thread, ¾” Length
4000-0015	4	Machine Screw, Button Head, ¼”-20 Size, 1-¼” Length, T27 Torx
4002-0002	14	Washer, Galvanized Steel, Neoprene Bonded Seal, ¼” ID
4002-0006	8	Split Lock Washer ⅜” Screw Size
4005-0002	4	Cable Clamp Package B with hardware: includes one (1) Cable Clamp B, four (4) #5 Phillips screws ⅝” long, one (1) 10-32 x 1¼” long, screw, and one (1) 10-32 nut
4015-0000	2	Plug, Plastic Push-In, Black, 1-3/32” ID (installed)
4015-0005	2	Plug, Plastic Push-In, Black, ½” ID (installed)
5609-0000	4	Cable Retractor Box with Cable Clamp Package A: includes one (1) Cable Clamp A, four (4) #5 Phillips screws ⅝” long, one (1) 10-32 x 1¼” long screw, and one (1) 10-32 nut

NOTE: The Quad-Mount HCS pedestal installation uses a subset of the standard pedestal extension hardware - not all of the included components are utilized for this configuration.

Optional Orderable Items for HCS Series and CS Series

0300-06-005 120V Ground Fault Receptacle Kit, NEC 2017 Compliant

Part Number	Quantity	Description
4015-0002	1	Plug, Knockout Bushing, ¾” Trade Size Aperture
4301-0001	1	Gang Box, Single, Silver Metal
4301-0003	1	Weatherproof Receptacle Cover, Clear, Single Gang, 2-¾” Depth
4301-0004	1	GFCI Ground Fault Receptacle, 15A, 125V, NEMA 5-15R, Dual Socket
4301-0005	1	Socket Cover, Child Safety, NEMA 5-15R, Two Prong, Plastic, White

0500-03-001 Optional CP-50 Test Accessory

Part Number	Quantity	Description
0500-03-001	1	Test accessory, CP-50 Check Point Tester, Inlet Cover

CONFIGURATIONS FOR CS SERIES

Figure 8: Single-Mount CS Configuration (designed for use with 18' cables)

Figure 9: Dual-Mount CS Configuration (designed for use with 18' cables)

PEDESTAL DIMENSIONS FOR CS SERIES

Figure 10: Pedestal Base Dimensions for CS EVSE

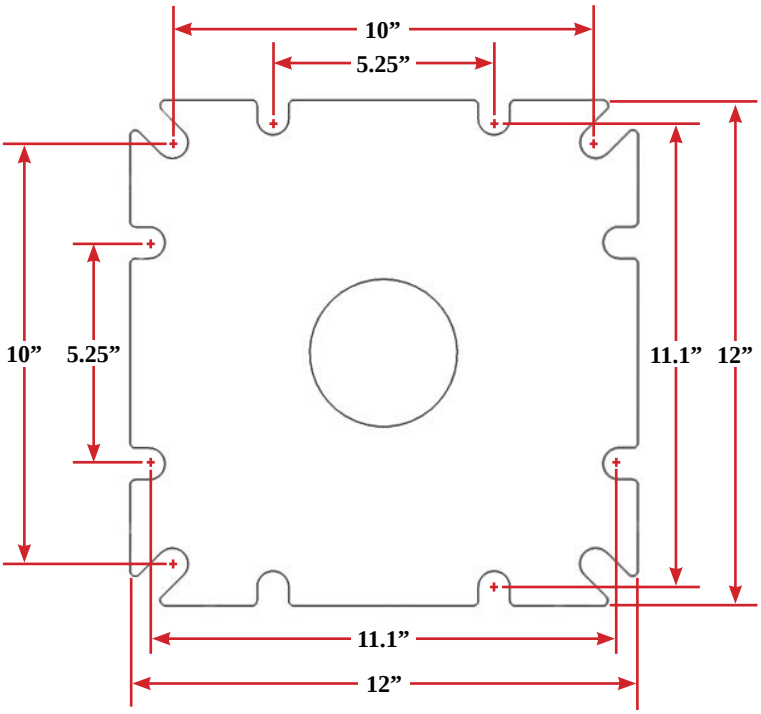
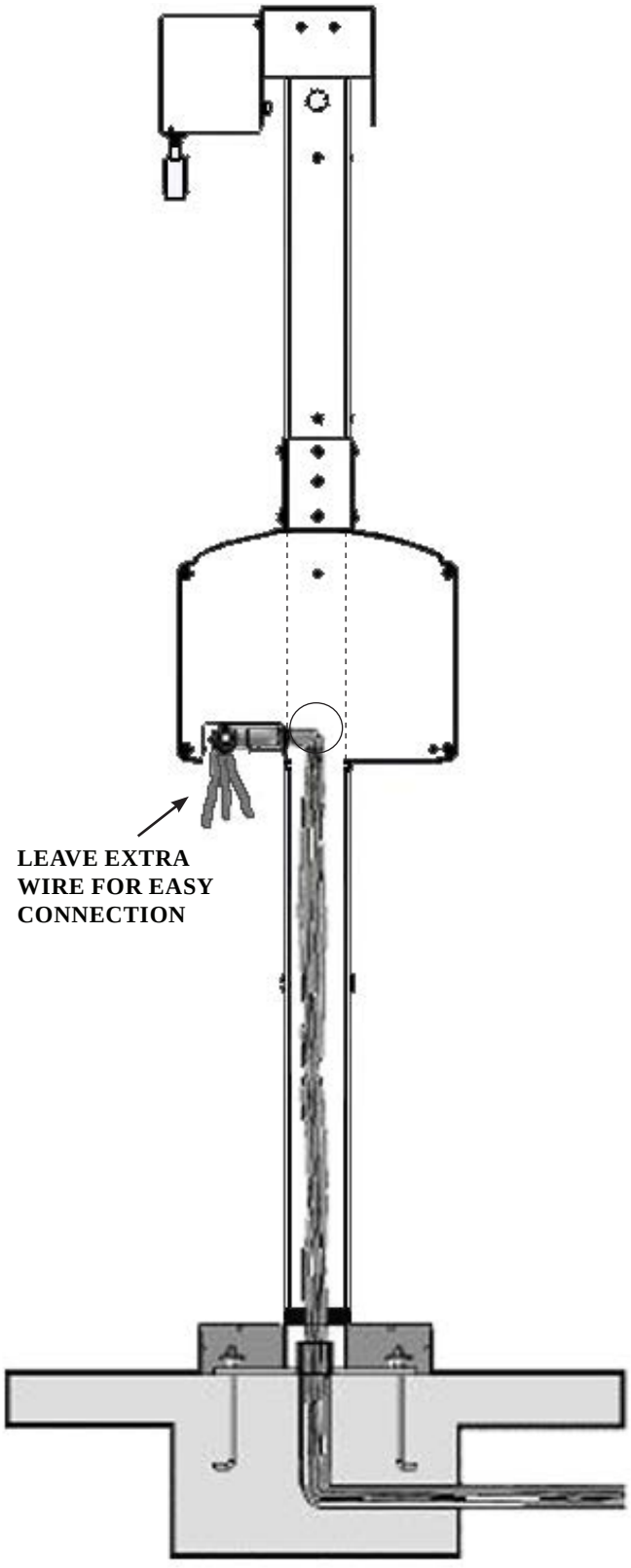


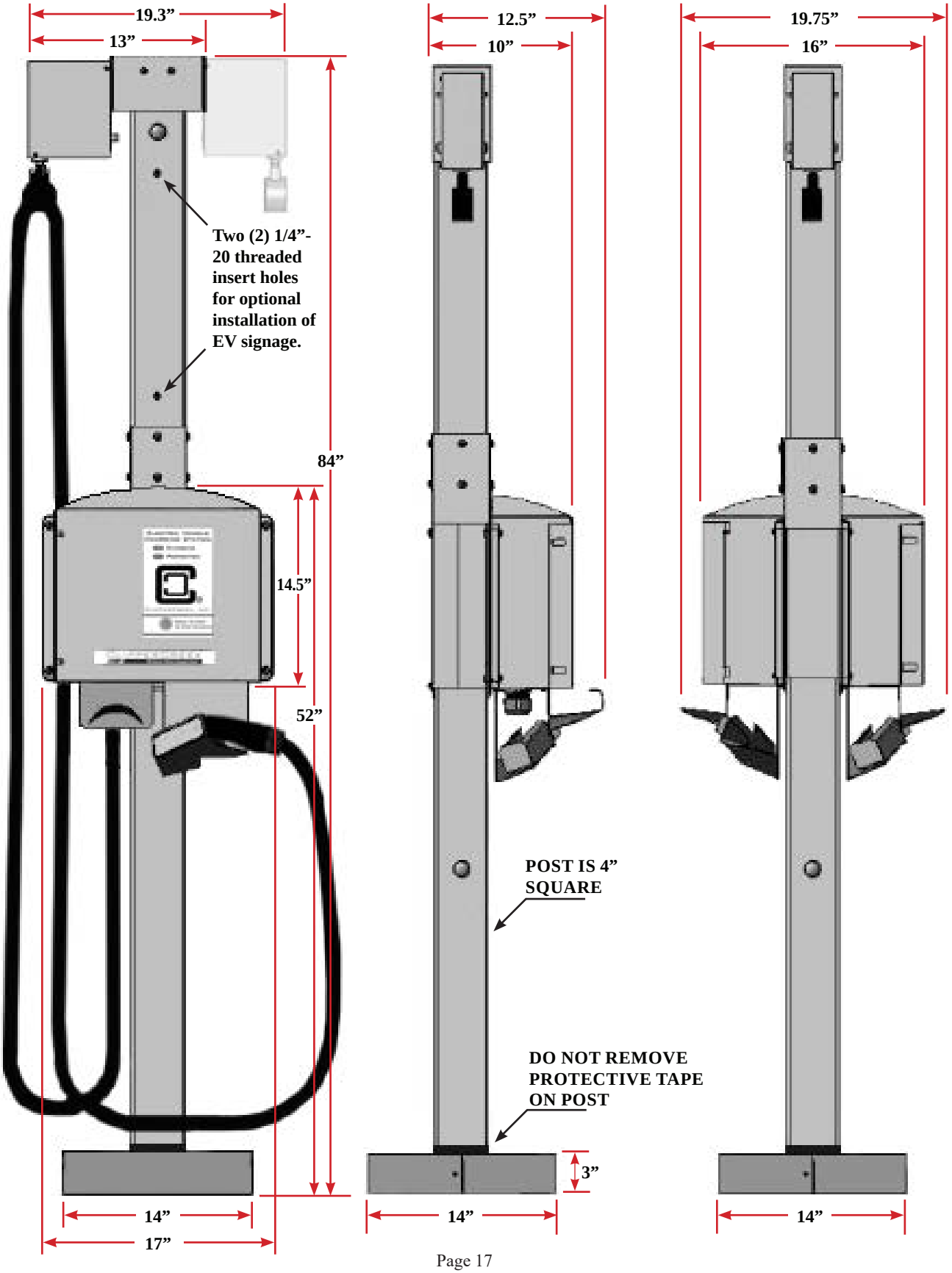
Figure 11: An Installation Cross-Section of a CS Single-Mount Pedestal Extension



NOTES:

PEDESTAL DIMENSIONS FOR CS SERIES (continued)

Figure 12: Pedestal Dimensions for Single-Mount and Dual-Mount CS Installations



PACKING LISTS FOR CS SERIES

0300-00-015 CS Pedestal Kit, Standard 4 Foot, Single Mount

Part Number	Quantity	Description
0300-06-001	1	Pedestal Conduit Assembly, Standard ¾" Fitting
1003-0014	1	Pedestal Metalwork, Cap with Rear Flange (not needed with extension kit)
1003-0019	1	Pedestal Metalwork, Back Bracket
1003-0023	2	Pedestal Metalwork, Base Cover
1003-0030	1	Pedestal Metalwork, CS EVSE Mounting Plate
1003-0031	1	Pedestal Metalwork, 4-Foot Post
4000-0010	4	Machine Screw, Tapered Flat Head, 6-32 Size, ⅜" Length, Phillips
4000-0011	2	Machine Screw, Tapered Flat Head, ¼"-20 Size, ¾" Length, T27 Torx
4000-0012	8	Machine Screw, Button Head, ¼"-20 Size, 1" Length, T27 Torx
4002-0002	8	Washer, Galvanized Steel, Neoprene Bonded Seal, ¼" ID
4015-0000	4	Plug, Plastic Push-In, 1-3/32" ID (installed)
4015-0001	2	Plug, Plastic Push-In, 1-⅜" ID (installed)

0300-00-016 CS Dual-Mount Kit for Standard 4 Foot Pedestal (optional)

Part Number	Quantity	Description
0300-06-001	1	Pedestal Conduit Assembly, Standard ¾" Fitting
1003-0015	1	Pedestal Metalwork, Cap without Rear Flange (not needed with extension kit)
1003-0017	2	Pedestal Metalwork, Side Bracket
1003-0030	1	Pedestal Metalwork, CS EVSE Mounting Plate
4000-0011	2	Machine Screw, Tapered Flat Head, ¼"-20 Size, ¾" Length, T27 Torx
4000-0012	4	Machine Screw, Button Head, ¼"-20 Size, 1¼" Length, T27 Torx
4002-0002	4	Washer, Galvanized Steel, Neoprene Bonded Seal, ¼" ID

0300-00-027 Single-Mount Pedestal Extension Kit for HCS or CS

Part Number	Quantity	Description
1003-0002	1	Pedestal Post Extension
1003-0003	2	Post Splice Bracket
1003-0004	4	Spacer Plate
1003-0005	2	Base Stiffener
1003-0006	1	Top Retractor Mount
4000-0011	4	Machine Screw, Tapered Flat Head, ¼"-20 Thread, ¾" Length, T27 Torx
4000-0012	10	Machine Screw, Button Head, ¼"-20 Size, 1" Length, T27 Torx
4000-0014	2	Hex Head Cap Screw ⅜"-16 Thread, ¾" Length
4000-0015	4	Machine Screw, Button Head, ¼"-20 Size, 1-¼" Length, T27 Torx
4002-0002	14	Washer, Galvanized Steel, Neoprene Bonded Seal, ¼" ID
4002-0006	2	Split Lock Washer ⅜" Screw Size
4005-0002	1	Cable Clamp Package B with hardware: includes one (1) Cable Clamp B, four (4) #5 Phillips screws ⅝" long, one (1) 10-32 x 1¼" long, screw, and one (1) 10-32 nut
4015-0000	2	Plug, Plastic Push-In, Black, 1-3/32" ID (installed)
4015-0005	2	Plug, Plastic Push-In, Black, ½" ID (installed)
5609-0000	1	Cable Retractor Box with Cable Clamp Package A: includes one (1) Cable Clamp A, four (4) #5 Phillips screws ⅝" long, one (1) 10-32 x 1¼" long screw, and one (1) 10-32 nut

0300-00-028 Dual-Mount Pedestal Extension Kit for HCS or CS (optional)

Part Number	Quantity	Description
1003-0002	1	Pedestal Post Extension
1003-0003	2	Post Splice Bracket
1003-0004	4	Spacer Plate
1003-0005	2	Base Stiffener
1003-0006	1	Top Retractor Mount
4000-0011	4	Machine Screw, Tapered Flat Head, ¼”-20 Thread, ¾” Length, T27 Torx
4000-0012	10	Machine Screw, Button Head, ¼”-20, 1” Length, T27 Torx
4000-0014	4	Hex Head Cap Screw ⅜”-16 Thread, ¾” Length
4000-0015	8	Machine Screw, Button Head, ¼”-20 Size, 1-¼” Length, T27 Torx
4002-0002	18	Washer, Galvanized Steel, Neoprene Bonded Seal, ¼” ID
4002-0006	4	Split Lock Washer ⅜” Screw Size
4005-0002	2	Cable Clamp Package B with hardware: includes one (1) Cable Clamp B, four (4) #5 Phillips screws ⅝” long, one (1) 10-32 x 1¼” long, screw, and one (1) 10-32 nut
4015-0000	2	Plug, Plastic Push-In, Black, 1-3⁄32” ID (installed)
4015-0005	2	Plug, Plastic Push-In, Black, ½” ID (installed)
5609-0000	2	Cable Retractor Box with Cable Clamp Package A: includes one (1) Cable Clamp A, four (4) #5 Phillips screws ⅝” long, one (1) 10-32 x 1¼” long screw, and one (1) 10-32 nut

Optional Orderable Items for CS Series and HCS Series:

0300-06-005 120V Ground Fault Receptacle Kit, NEC 2017 Compliant

Part Number	Quantity	Description
4015-0002	1	Plug, Knockout Bushing, ¾” Trade Size Aperture
4301-0001	1	Gang Box, Single, Silver Metal
4301-0003	1	Weatherproof Receptacle Cover, Clear, Single Gang, 2-¾” Depth
4301-0004	1	GFCI Ground Fault Receptacle, 15A, 125V, NEMA 5-15R, Dual Socket
4301-0005	1	Socket Cover, Child Safety, NEMA 5-15R, Two Prong, Plastic, White

0300-06-002 Optional 1” Conduit Assembly

Part Number	Quantity	Description
0300-06-002	1	Pedestal Conduit Assembly, Optional 1” Fitting

0500-03-001 Optional CP-50 Test Accessory

Part Number	Quantity	Description
0500-03-001	1	Test accessory, CP-50 Check Point Tester, Inlet Cover

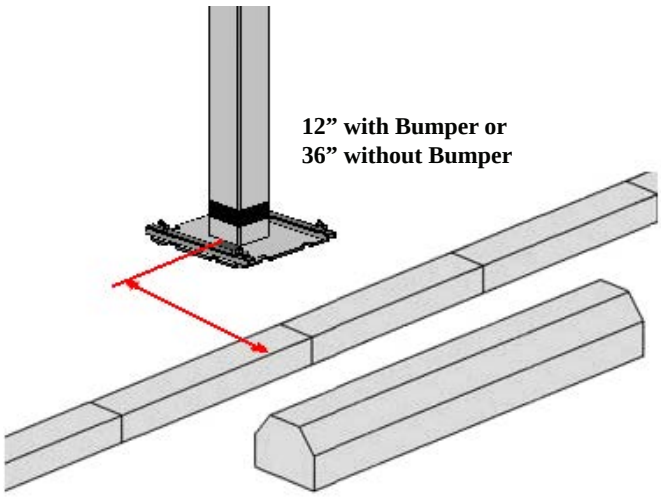
INITIAL PEDESTAL INSTALLATION

1. Concrete Pad Requirements

The location, dimensions, and composition of the concrete pad underlying the pedestal should always adhere to local building codes. The following dimensions are minimum recommended values. Always verify that installation plans adhere to local code requirements prior to proceeding.

- The pad area must be a minimum of 18” to a side.
- The concrete must be poured a minimum depth of 18”.
- If there is no bumper block, the center of the pedestal base should be situated 36” behind the curb. See **Figure 13**.
- If a bumper block is in place, the center of the pedestal base should be situated 12” behind the curb.

Figure 13: Proper Distance to the Curb with Correct Base Stiffener Orientation



2. Anchor Bolt Placement

A minimum of four (4) anchor bolts must be embedded in the concrete pad for the purposes of securing the pedestal post.

Maximum Anchor Bolt Height

- The anchor bolts should not protrude more than 3” above the surface of the concrete pad and must be at least 1.5” above the surface of the concrete pad to compensate for the added height of the base stiffeners.

Use the Pedestal Base Pattern Template

- To better facilitate the installation of the anchor bolts, a cardboard template in the shape of the pedestal base is included in the pedestal kit. This template is provided as a knock-out piece on the back of the cardboard box in which the EVSE mounting plate is packaged. The base is shown in **Figure 14.**

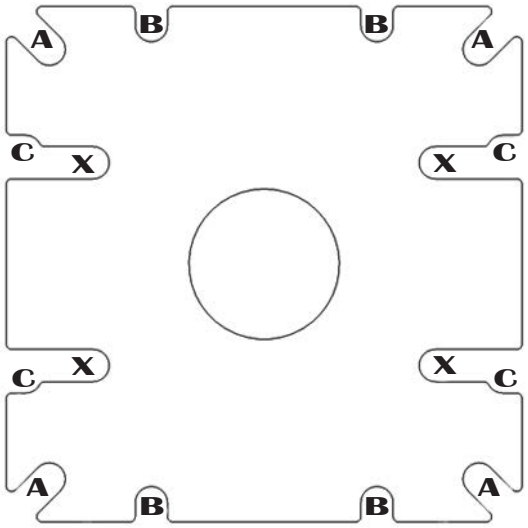
Standard 10” x 10” Rectangular Pattern

- Arrange four (4) ½” or ⅜” anchor bolts in a 10” square pattern. This preferred placement corresponds to the ‘A’ labels shown in **Figure 14**.

Alternate 5.25” x 11.1” Rectangular Pattern

- Arrange four (4) ⅜” anchor bolts in a 5.25” by 11.1” rectangular pattern. This placement corresponds to the ‘B’ labeled (preferable) or ‘C’ labeled (if necessary) inner cutouts in the pedestal base. See details on **Figure 14**.

Figure 14: Pedestal Base Bolt Pattern



Do not place bolts where ‘X’ labels are shown.

Your configurations may vary slightly from what is depicted in this manual.

INITIAL PEDESTAL INSTALLATION (continued)

3. Mounting the Pedestal Post

Once the concrete pad with anchor bolts has been prepared and the three service conductors have been pulled through the underground conduit, the pedestal post may be put into place.

NOTE: DO NOT remove the tape at the bottom of the pedestal. This tape is provided for finish and weather protection of the pedestal post.

- Feed all service conductors up through the inside of the pedestal post. The conductors must be of sufficient length to pass beyond the top of the pedestal so that final connections can be worked with comfortably at a later step.
- Align the pedestal post base notches with the four anchor bolts and ease it into place.
- Nuts and washers may be used under the pedestal base to adjust the vertical alignment of the pedestal should the concrete pad not be level.
- **IMPORTANT!** Orient the base stiffeners at opposite angles to the wire access hole as shown in **Figure 15** and **Figure 16**.
- Secure the pedestal post base and base stiffeners to the concrete anchor bolts using appropriately sized nuts and washers as shown in **Figures 16**.
- The anchor bolts, nuts and washers used for the installation of the pedestal base are not included in the pedestal kit and must be purchased separately.

Figure 15: Correct Orientation of Base Stiffeners

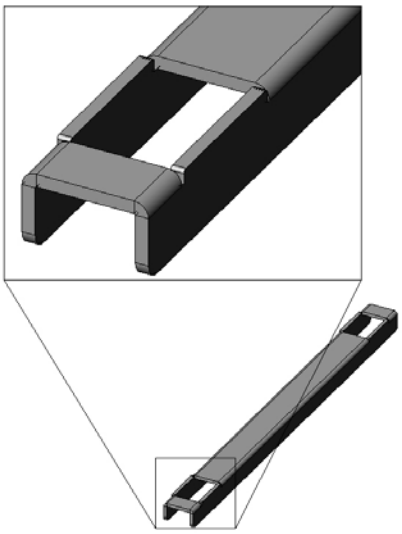
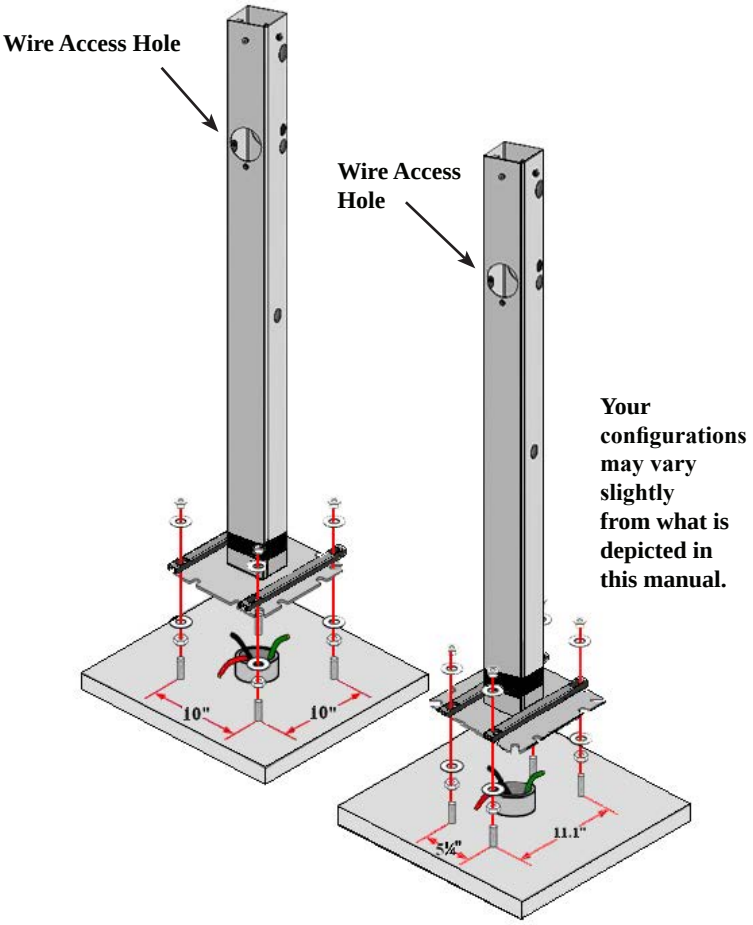


Figure 16: Pedestal Post Mounting by Pattern



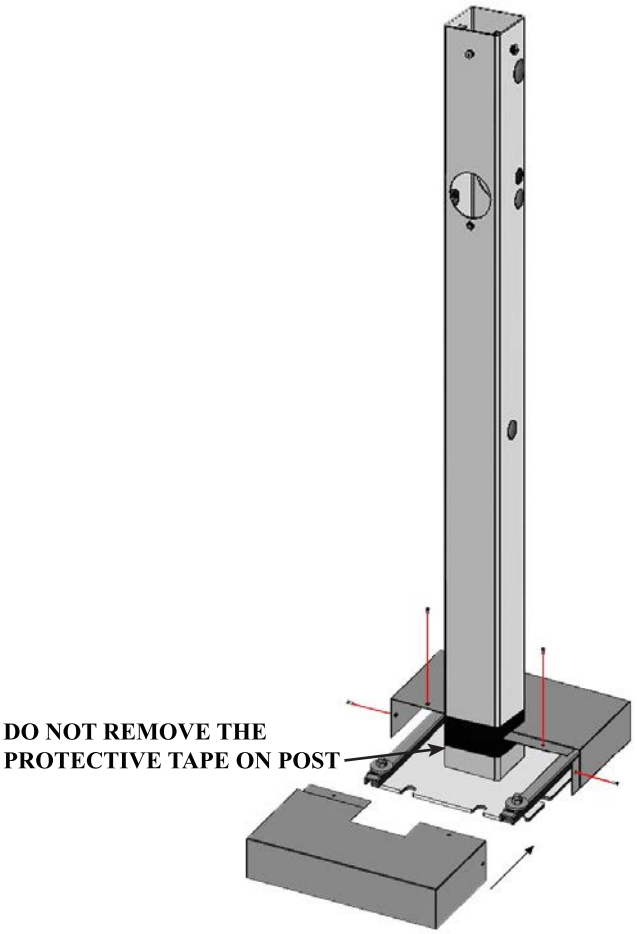
INITIAL PEDESTAL INSTALLATION (continued)

4. Install the Pedestal Base Cover

A two-piece pedestal base cover set is included in the pedestal kit. The purpose of the pedestal base cover is to aesthetically enhance the installation and to protect against injury from protruding anchor bolts. The two covers are of an identical overlapping design.

- Slide one cover on the front side of the pedestal base until the center notch surrounds half of the pedestal post. Slide the other cover onto the rear side in the same manner. Ensure the flanges of each cover piece are tucked inside the opposite cover.
- Align the four screw holes of each cover piece with the corresponding screw holes on the opposite cover.
- Secure each cover piece to the other with four (4) #6- 32 x ⅜" flat-head taper screws using a #2 Phillips-head screwdriver.

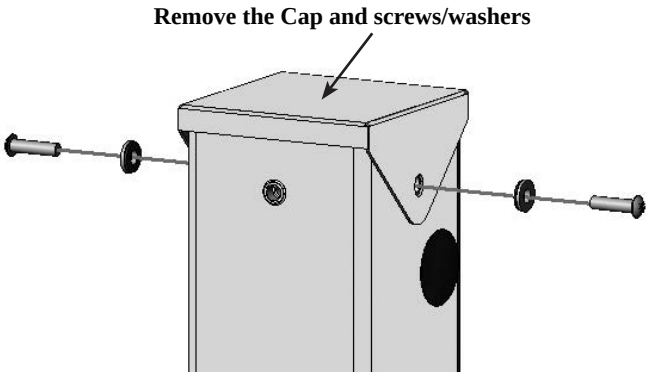
Figure 17: The Pedestal Base Covers



5. Remove the Pedestal Post Cap

A pedestal cap is provided to cover the opening to protect the conductors and inner pedestal from the elements. It may have already been assembled on the post for protection during shipping. Remove the Cap from the top of the pedestal. It is not necessary to keep this piece for the Extension Kit configuration, however, keep the screws and washers for later use to install the Post Splice Brackets.

Figure 18: Cap Removal



INITIAL PEDESTAL INSTALLATION (continued)

6. Assemble the Retractor Mount

For Single-Mount EVSE Installations

- Place a ⅜” Split Lock Washer around the shaft of each of the two (2) ⅜”-16 Hex Head Cap Screws.
- Align the threaded inserts of the Cable Retractor Box with the vertical center holes on one side of the Top Retractor Mount.
- Secure the Cable Retractor Box to the Top Retractor Mount with the two (2) ⅜”-16 Hex Head Cap Screws (with washers) using a 5⁄16” Hex Head wrench. See **Figure 19**.

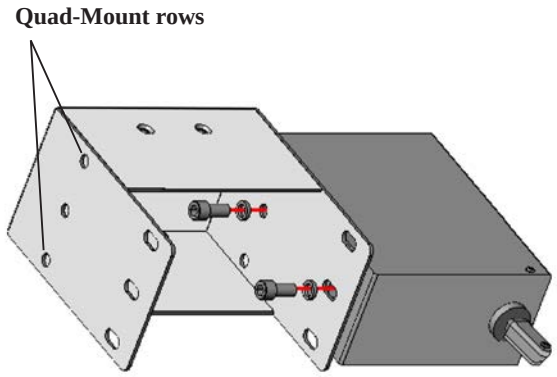
For Dual-Mount EVSE Installations

- Repeat the process for the second Cable Retractor Box on the opposite side of the Top Retractor Mount.

For Quad-Mount EVSE Installations

- The OUTER rows must be used for mounting all four Cable Retractor boxes.

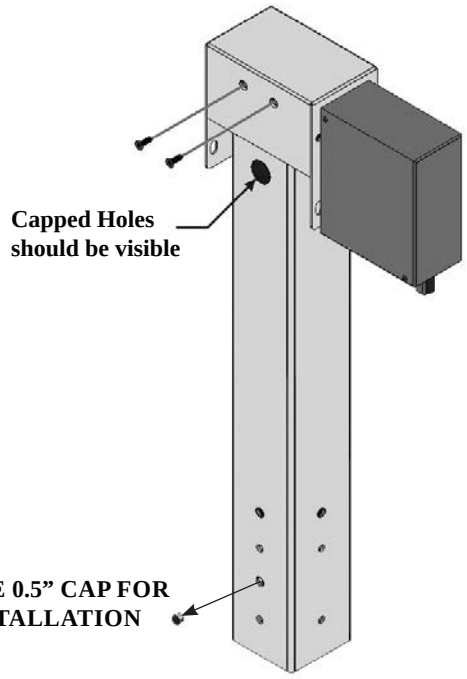
Figure 19: Cable Retractor Box and Top



7. Install the Retractor Mount Assembly

- Orient the Retractor Mount Assembly with the Pedestal Post Extension. The two capped holes in the top of the Extension are provided to run wires for optional lighting fixtures and should remain accessible per **Figure 20**.
- Align the front and rear screw holes of the Retractor Mount Assembly with the corresponding thread inserts on the Pedestal Post Extension.
- Secure the Retractor Mount Assembly to the Pedestal Post Extension with four (4) Tapered Flat Head ¼”-20 x ¾” Length Machine Screws using a T27 Torx driver. Tighten until the flat screw heads are flush with the surface of the Top Retractor Mount.
- **HCS ONLY:** Remove 0.5” cap as shown in **Figure 20**. If Single-Mount, remove only the one cap on the EVSE side and leave the other in place. If Dual Mount HCS both 0.5” caps must be removed.
- **HCS QUAD and CS:** BOTH 0.5” caps must remain in the post; do NOT remove them.

Figure 20: Retractor Mount Assembly Installation



NOTE: Single-Mount shown for simplicity

THE INITIAL PEDESTAL INSTALLATION IS NOW COMPLETE. PLEASE REFER TO THE TABLE OF CONTENTS TO PROCEED WITH EITHER THE HCS OR CS EVSE INSTALLATION INSTRUCTIONS.

HCS EVSE INSTALLATION

Please refer to the HCS installation manual for service wiring requirements.

1. Install the Conduit Assembly

- On the side of the pedestal post adjacent of the EVSE, remove the 1½" plastic plug closest to the EVSE, labeled in **Figure 21** as **B1** or **B2**.
- Connect the following to the Pedestal Post in the order as shown in **Figure 21:**

  a) The first locknut from the NPT Fitting (not shown: inside of the pedestal)
  b) The open pedestal hole
  c) The ½" liquid tight sealing washer
  d) The Standard 90 degree ½" NPT Fitting

- Tighten so that the bottom opening of the NPT Fitting is facing downward.
- For Dual-Mount Installations, repeat on the opposite side.

2. Connect the Wiring

- The HCS has a flexible conduit extension with three service conductors. These conductors must be routed through the side of the pedestal and the ninety-degree ½" NPT for connection.
- Trim the EVSE conduit to length. The recommended conduit length is 12 inches as measured from the bottom of the EVSE. Be careful not to cut through the wiring inside.
- Route the three conductors that come through the EVSE's flexible conduit through the NPT Fitting and into the Pedestal Post.
- No disassembly of the NPT Fitting is required. Push the conduit onto the NPT Fitting ferrule and then tighten the domed sealing nut on the NPT fitting.
- Have someone hold the EVSE or gently let the EVSE hang upside-down for the moment.
- For Dual and Quad-Mount Installations, repeat on the additional sides.
- **IMPORTANT: <u>All conductor and ground lug connections inside the Pedestal Post must be completed at this time.</u> The top access hole will be blocked after this step.**

Figure 21: HCS Pedestal Conduit Assembly

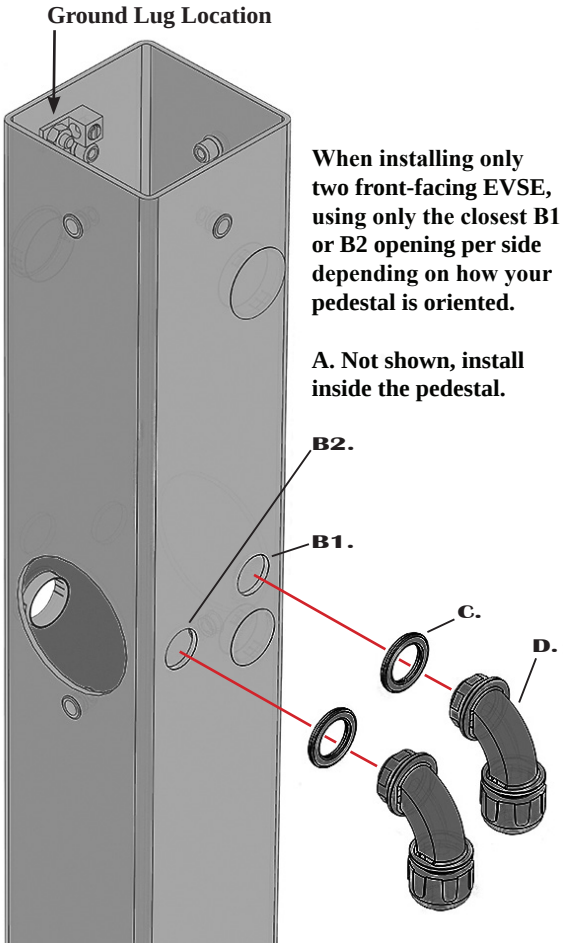
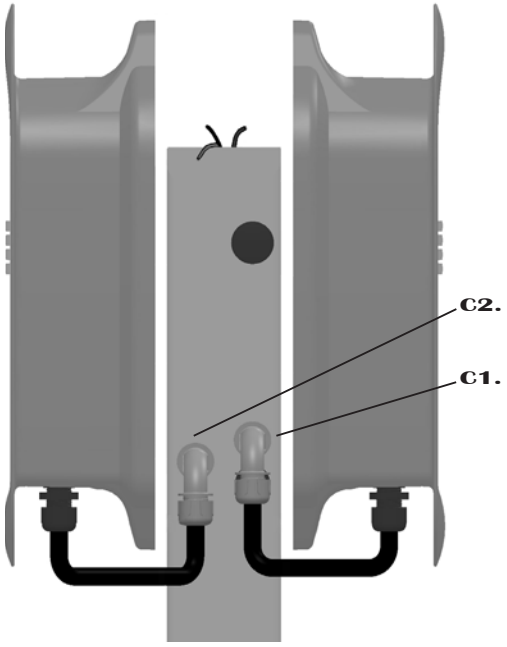


Figure 22: Wiring and Conduit Placement

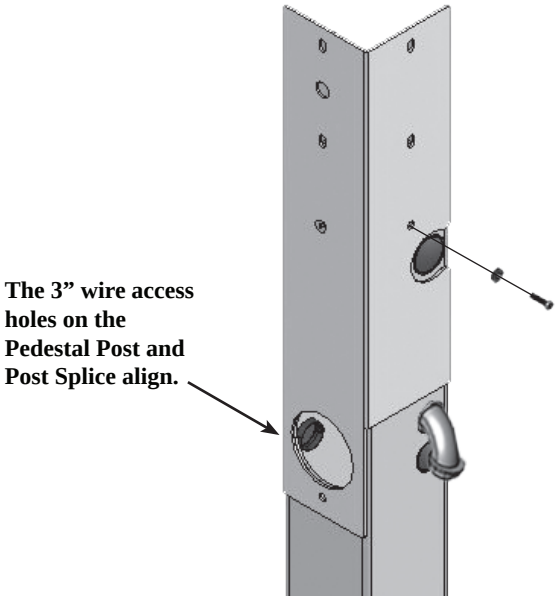


HCS EVSE INSTALLATION (continued)

3. Install the Post Splice Brackets and Extension

- Place a ¼" Neoprene-bonded sealing washer around the shaft of ten (10) ¼"-20 x 1" Torx button-head screws. The metal portion of the washer should face the head of the screw while the neoprene should face the tip of the screw.
- The two Post Splice Brackets are of an identical design. Hold the first Post Splice Bracket against the pedestal post **EXACTLY** as shown in **Figure 23** and secure as pictured with one (1) ¼" -20 1" screw with washer.

Figure 23: First Post Splice Orientation



- Repeat on the opposite side of the pedestal post with the second Post Splice Bracket and one (1) screw and washer assembly.
- **FOR SAFETY, THIS ASSEMBLY REQUIRES TWO PEOPLE!** Orient the Extension as shown in **Figure 24**. Slide the Extension into place between the two Post Splice Brackets. The Pedestal Post Extension should come to a rest on the top of the Pedestal Post.
- Secure all four sides of the Pedestal Post Extension to the Post Splice Brackets using eight (8) ¼" -20 1" screw and washer assemblies as shown in **Figure 25** and tighten in an alternating fashion.
- **NOTE:** The two lower most screw holes in the front face of each Post Splice should remain unused at this point.

Figure 24: Secure Extension (Both sides = eight screws and washers)

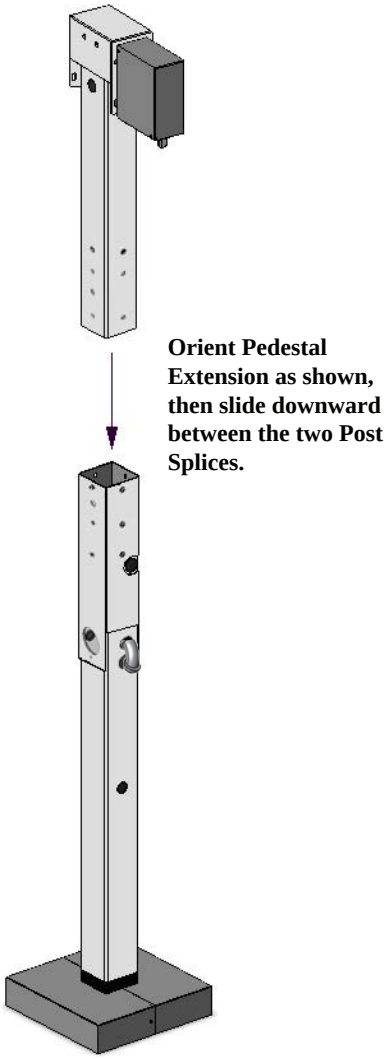
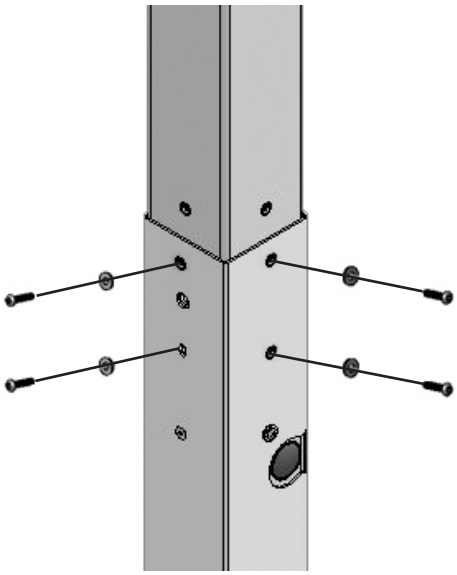


Figure 25: Pedestal Extension Orientation



HCS EVSE INSTALLATION (continued)

4. Install the EVSE Single or Dual-HCS Mounting Plate(s)

An EVSE mounting plate is affixed to the front of the pedestal post to provide a flat and rigid base on which the EVSE can be mounted. In the case of a Dual-EVSE installation, a second mounting plate is affixed to the opposite side of the pedestal post.

- Remove the ⅞" plastic plug as shown in **Figure 26**.
- Hold the EVSE mounting plate against the front side of the pedestal post. The top PEM nut on the mounting plate should align with the hole on the front of the Post Splice Bracket.
- Secure the mounting plate to the pedestal with one (1) ¼"-20 x ¾" Torx flat-head screw from the pedestal parts kit using a T27 Torx driver. Tighten until the head of the screw is flush with the surface of the mounting plate. See **Figure 27** for proper screw location.

NOTE: Do not insert the other screws yet; these will be used when the EVSE is mounted.

For Dual-Mount EVSE Installations:

- The Dual-Mount Kit includes a second EVSE mounting plate. This second mounting plate is to be affixed using the same procedures to the back side of the pedestal post, opposite of the first mounting plate.

NOTE: For **Quad-Mount EVSE Installation** see instructions on next page.

Figure 26: Remove the 7/8" Plastic Plug

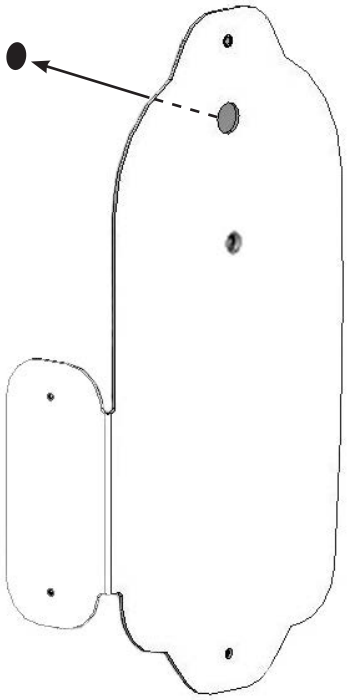
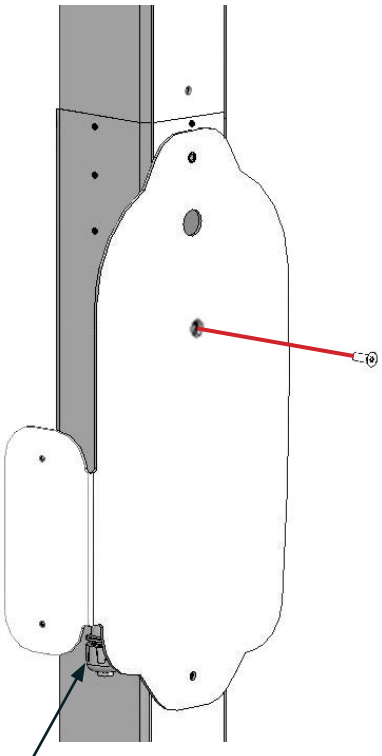


Figure 27: The HCS EVSE Mounting Plate



NOTE that the 90 degree NPT Fitting is on the left side of the EVSE.

HCS EVSE INSTALLATION (continued)

7. Install the HCS Quad EVSE Mounting Plates

An EVSE mounting plate is affixed to the front and back of the pedestal post to provide flat and rigid base on which the EVSE can be mounted.

- Hold the HCS Quad EVSE mounting plate against the front side of the pedestal post as shown in **Figure 28.**
- Align the two center screw holes of the mounting plate with the corresponding top threaded inserts on the front of the pedestal post.
- Secure the mounting plate to the pedestal with two (2) ¼-20 x ¾" Torx flat-head tapered screw using a T27 Torx driver. Tighten until the head of the screw is flush with the surface of the mounting plate
- Repeat on the opposite side with the second mounting plate, making sure to nest the slots on the inside. See **Figure 29**.
- Place a #8 washer around the shaft of each of the (14) 8-32 pan head screws.
- Use six of the #8 screw and washer sets to secure the sides of the Quad Mounting Plate as shown in **Figure 30**.

Figure 28: The EVSE Mounting Plates

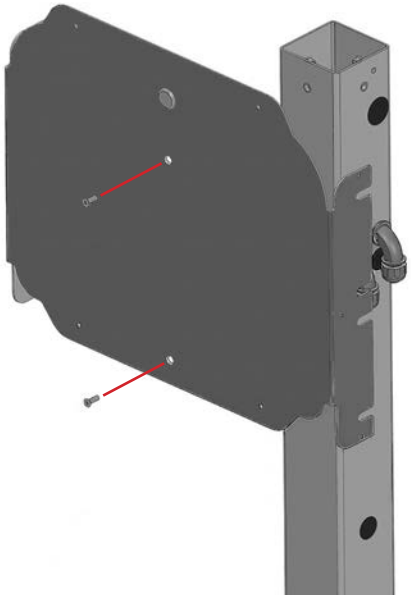


Figure 29: Slide EVSE Mounting Plates Together

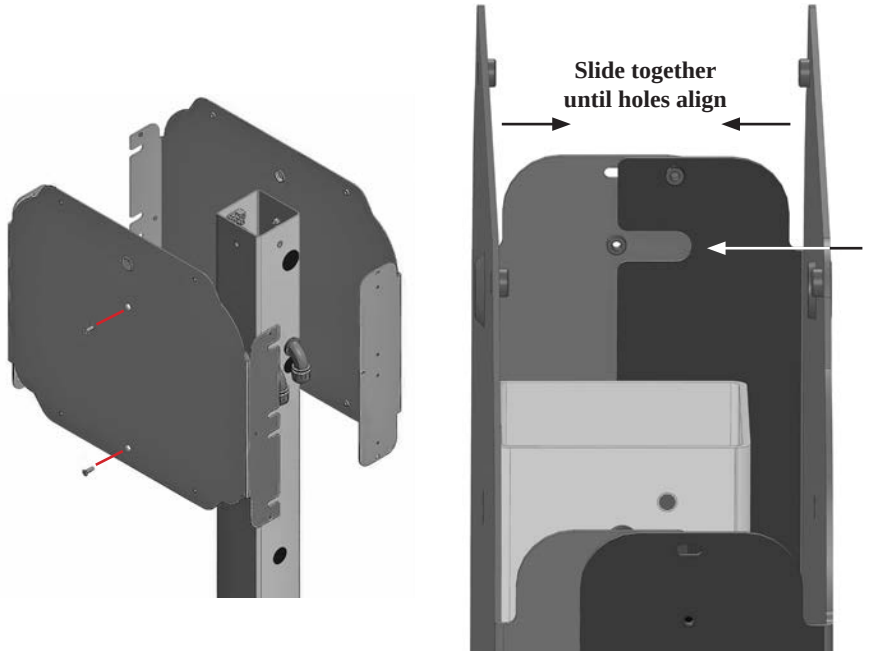
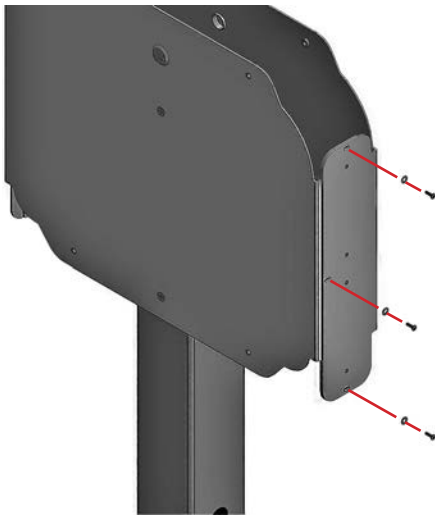


Figure 30: Secure Sides of Quad Mounting Plates



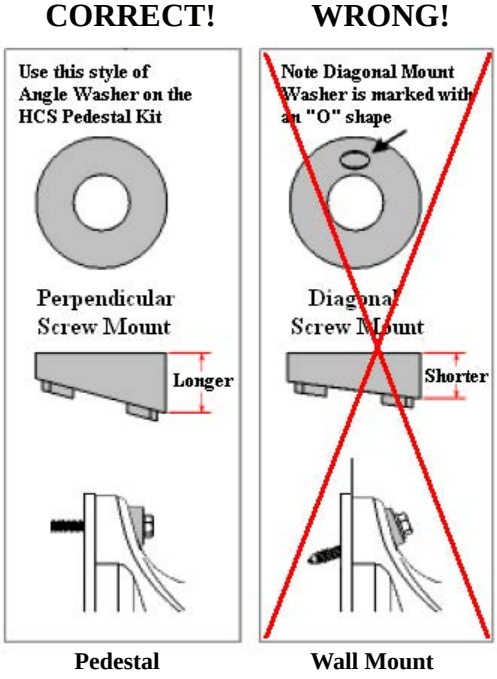
NOTE: Pedestal extensions not shown here for visual clarity.

HCS EVSE INSTALLATION (continued)

5. Mounting an HCS EVSE to the Pedestal

- With the mounting plate in place, the pedestal is now ready for an EVSE to be mounted.
- Place a ¼" Neoprene-bonded sealing washer around the shaft of each of the two (2) ¼"-20 x 2" Torx button-head screws. The metal portion of the washer should face the head of the screw while the neoprene should face the tip of the screw.
- There are two different styles of HCS plastic angle washers. The correct style to use with the HCS Pedestal is the Perpendicular Screw Mount. These washers are included with the HCS Charging Station and do not accompany this kit. Refer to **Figure 31.**
- Align the two screw holes on the top and bottom of the EVSE with the corresponding threaded inserts on the mounting plate.
- Use a T27 Torx driver to secure the top of the EVSE first using one (1) ¼"-20 x 2" Torx button-head screw with neoprene washer and HCS Plastic Angle Washer as shown in **Figure 32**. **Do not over-tighten.**

Figure 31: HCS Plastic Angle Washers



- Secure the bottom of the EVSE using one (1) ¼"-20 x 2" Torx button-head screw with neoprene washer and HCS Plastic Angle Washer as shown in **Figure 33**.
- For an installation with two or more HCS EVSE's affixed to the same post, repeat the previous steps for the second EVSE on the opposite side.
- Above each EVSE on the pedestal extension post are two ¼"-20 additional threaded insert holes for optional installation of EV signage.

Figure 32: Mounting a Single HCS EVSE: Install the Top Screw FIRST

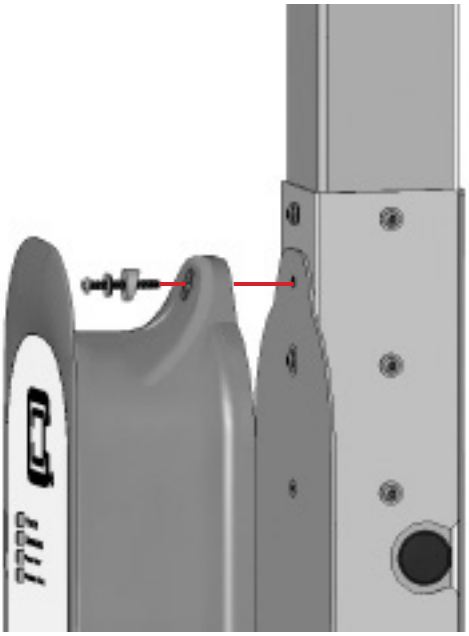
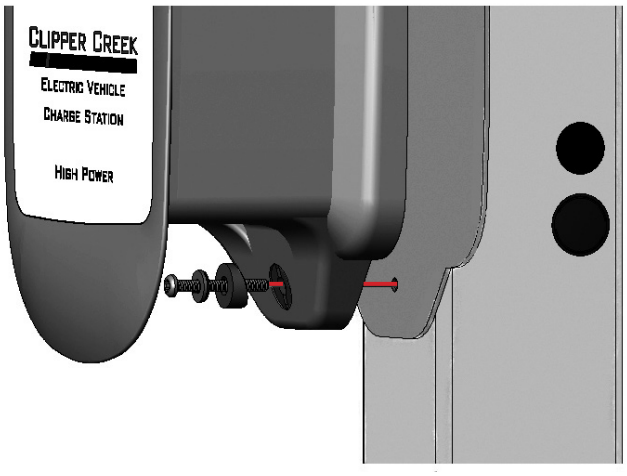


Figure 33: Mounting a Single HCS EVSE: Install Bottom Screw LAST



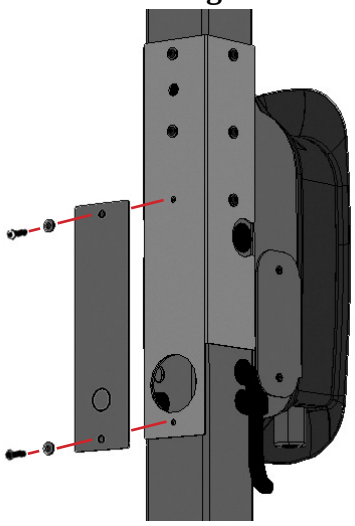
HCS EVSE INSTALLATION (continued)

6. Install the Cover Plate

The cover plate is provided to cover the electrical access hole for Single-Mount Pedestals only. Skip this step for Dual or Quad-Mount installations.

- Secure the cover plate to the back of the Single-Mount Pedestal with two (2) ¼”-20 x ¾” Torx flat-head tapered screws and neoprene washer as shown in Figure 28. Use a T27 Torx driver to tighten the screw until the screw head is flush with the surface of the mounting plate. Refer to **Figure 34**.

Figure 34: Installing the Cover Plate

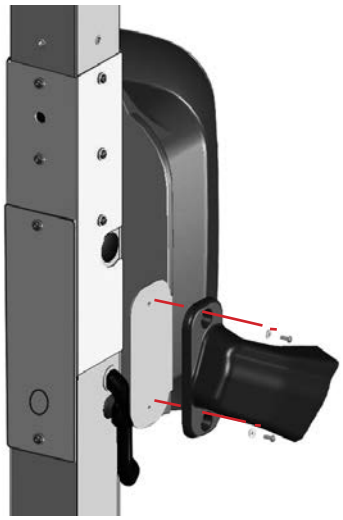


7. Mounting the SAE J1772 Vehicle Connector Holster

The vehicle connector holster is included to provide a convenient protective housing for the vehicle connector head when it is not in use.

- Place a #8 washer around the shaft of each of the two (2) 8-32 pan-head screws.
- Secure the Holster and the Mounting Plate flange as shown in **Figure 35**.

Figure 35: Mounting the Connector Holster



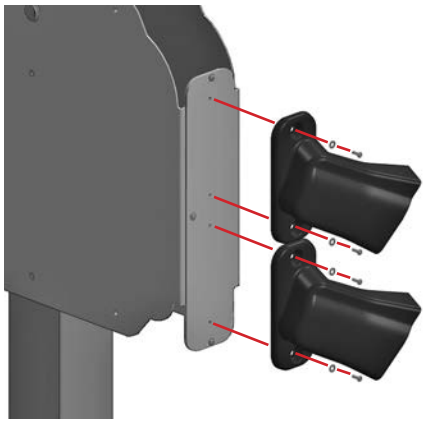
For Dual-Mount EVSE Installations

Repeat the previous steps for the opposite side.

For Quad-Mount EVSE Installations

- Begin each side with the bottom holster for ease of installation.
- Use four (4) #8 screw and washer sets to secure the Holsters to the left side of the corresponding Mounting Plate as shown in **Figure 36**.
- For an installation with four EVSE affixed to the same post, repeat the previous steps for the opposite side.

Figure 36: Quad-Mount Holsters



8. Wiring the Conductors to the HCS

Refer to the latest HCS User Manual for instructions on wiring the HCS EVSE.

View the most recent version of the HCS User Manual at: ClipperCreek.com/installation-manuals

INSTALLATION OF THE HCS EVSE IS NOW COMPLETE. PLEASE REFER TO THE HCS USER MANUAL FOR TROUBLE-SHOOTING AND ADDITIONAL INFORMATION.

PROCEED TO PAGE 32 FOR THE FINAL EXTENSION KIT INSTALLATION INSTRUCTIONS.

CS EVSE INSTALLATION

1. Install the Conduit Assembly

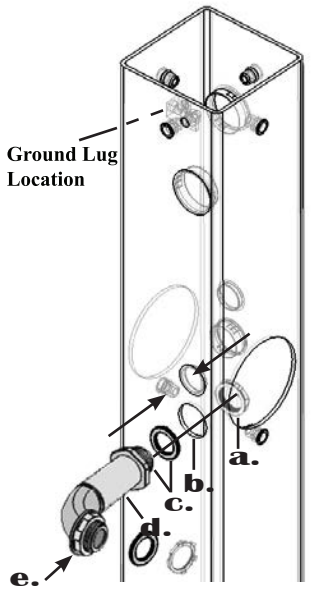
The service conductors are routed through the side of the pedestal and into the back of the EVSE via an external conduit assembly. **NOTE: For a Dual-Mount installation, these instructions must be repeated for the opposite side.**

For the Standard ¾" Conduit Assembly

Follow these instructions and refer to **Figure 37** to install the standard ¾" conduit assembly included in the pedestal kit.

- It is highly recommended that connection to the Ground Lug inside the Pedestal Post be completed at this time. **Access will be limited after this step.**
- Remove the ¾" plastic plug located 12" down from the top of the pedestal on the left side.
- Unscrew locknut **(a)** from the end of the conduit.
- Route the three conductors through the following:
  a) The inner locknut (inside of the pedestal)
  b) The open pedestal hole
  c) The plastic washer (make sure the washer is on the outside of the pedestal)
  d) The conduit assembly
  e) The outer locknut
- Push the threaded end of the straight conduit fitting into the open pedestal hole. Reach inside of the pedestal and hand-tighten the locknut **(a)** onto the conduit threads.
- **IMPORTANT: Remove the locknut (e) at the end of the conduit assembly; this will be needed in Step 6. See locknut (e) in Figure 37.** Face the open end of the 90 degree conduit fitting forward for later insertion into the back of the EVSE.
- If it has not already been removed, remove the knock-out found at the bottom left corner of the rear wall of the CS Series EVSE enclosure.

Figure 37: Standard ¾" Conduit Assembly

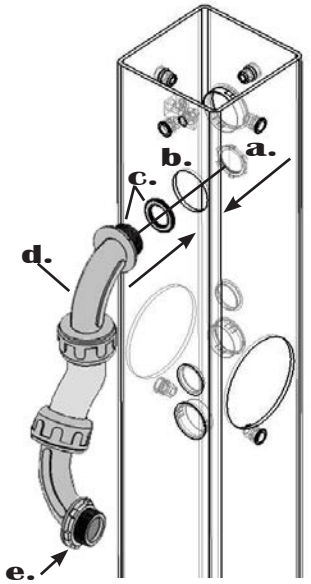


For the Optional 1" Conduit Assembly

Some installations may require a conduit larger than the standard ¾" assembly. For this purpose, an optional 1" conduit assembly may be requested. Follow these instructions and refer to **Figure 38** to install the optional 1" conduit.

- It is highly recommended that connection to the Ground Lugs inside the Pedestal Post be completed at this time. **Access will be limited after this step.**
- Remove the 1" plastic plug located 3" down from the top of the pedestal on the left side.
- Unscrew the locknuts on either end of the conduit.
- Route the three conductors through the following:
  a) The inner locknut (inside of the pedestal)
  b) The open pedestal hole
  c) The plastic washer (make sure the washer is on the outside of the pedestal)
  d) The conduit assembly
  e) The outer locknut
- The 1" conduit assembly may be disassembled to make it easier to pull the conduit through each fitting. Ensure the conduit is fully reassembled before proceeding.
- **IMPORTANT: Remove the locknut (e) at the end of the conduit assembly; this will be needed in Step 6. See locknut (e) in Figure 38.** Face the open end of the 90 degree conduit fitting forward for later insertion into the back of the EVSE.
- If it has not already been removed, remove the knock-out found at the bottom left corner of the rear wall of the CS Series EVSE enclosure.

Figure 38: Optional 1" Conduit Assembly

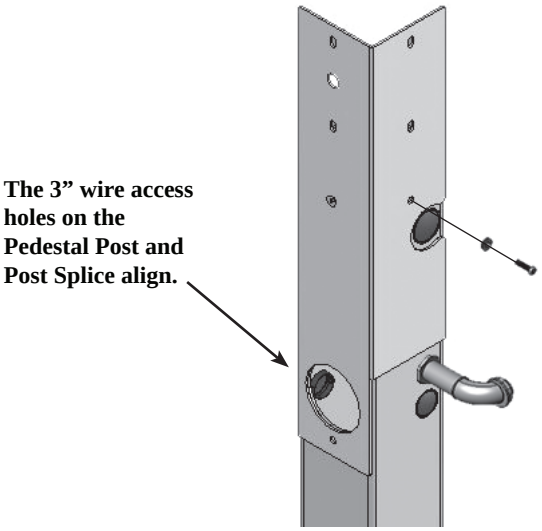


CS EVSE INSTALLATION (continued)

2. Install the Post Splices and Extension

- Place a ¼” Neoprene-bonded sealing washer around the shaft of ten (10) ¼”-20 x 1” Torx button-head screws. The metal portion of the washer should face the head of the screw while the neoprene should face the tip of the screw.
- The two Post Splice Brackets are of an identical design. Hold the first Post Splice against the pedestal post **EXACTLY** as shown in **Figure 39** and secure as pictured with one (1) ¼”-20 1” screw with washer.

Figure 39: First Post Splice Orientation



- Repeat on the opposite side of the pedestal post with the second Post Splice Bracket and one (1) screw and washer assembly.
- **FOR SAFETY, THIS ASSEMBLY REQUIRES TWO PEOPLE!** Orient the Extension as shown in **Figure 40**. Slide the Extension into place between the two Post Splice Brackets. The Pedestal Post Extension should come to a rest on the top of the Pedestal Post.
- Secure all four sides of the Pedestal Post Extension to the Post Splice Brackets using eight (8) ¼” -20 1” screw and washer assemblies as shown in **Figure 41** and tighten in an alternating fashion.
- **NOTE:** The two lower most screw holes in the front face of each Post Splice should remain unused at this point.

Figure 40: Secure Extension (Both sides = eight screws and washers)

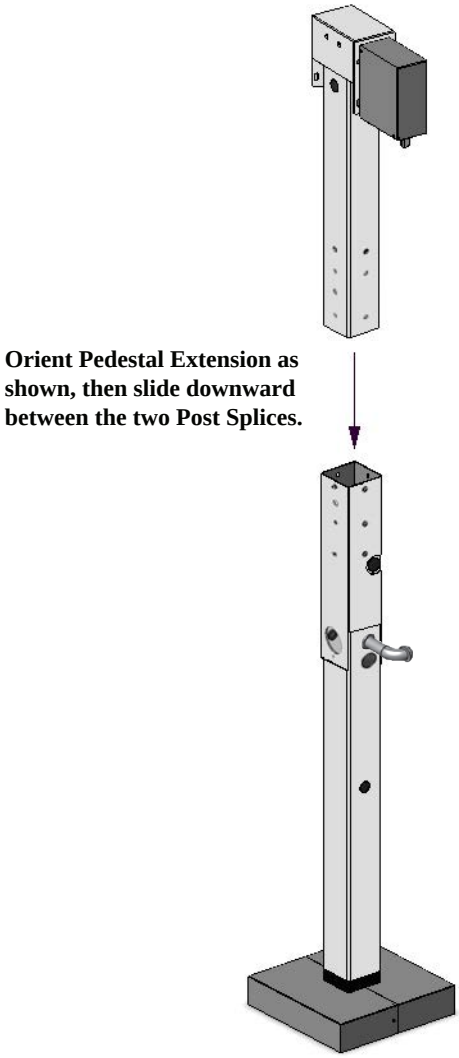
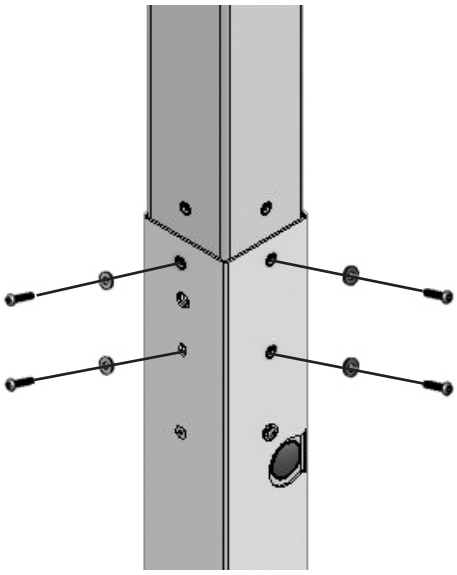


Figure 41: Pedestal Extension Orientation



CS EVSE INSTALLATION (continued)

3. Install the EVSE Mounting Plate and Remove CS EVSE Knockout

An EVSE mounting plate is affixed to the front of the pedestal post to provide a flat and rigid base on which the EVSE can be mounted. In the case of a Dual-EVSE installation, a second mounting plate is affixed to the opposite side of the pedestal post.

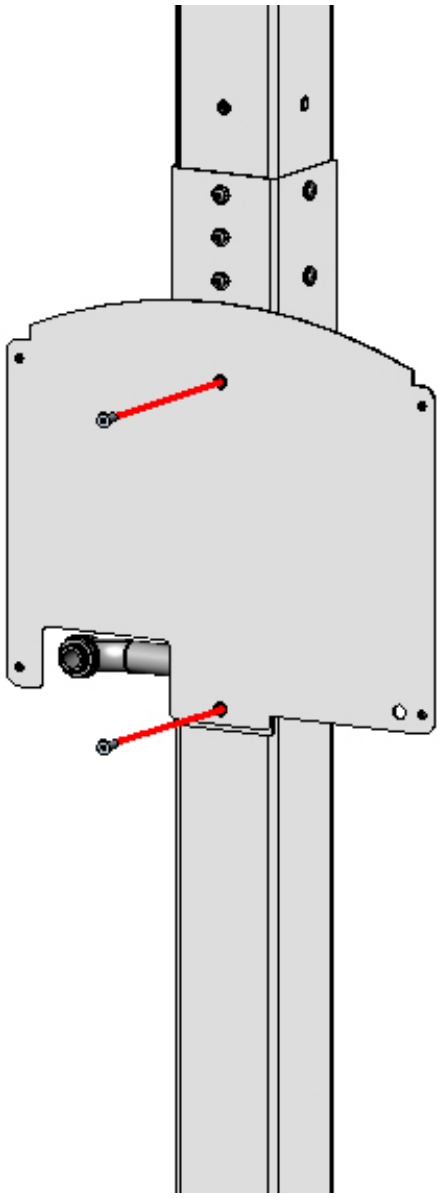
- Hold the EVSE mounting plate against the front side of the pedestal post **with the notch toward the left side to allow clearance for the conduit piece as shown in Figure 42.**
- Align the two screw holes along the centerline of the mounting plate with the corresponding holes in the Post Splices and the threaded inserts on the front of the pedestal post.
- Secure the mounting plate to the pedestal with the two (2) ¼”-20 x ¾” Torx flat-head taper screws using a T27 Torx driver. Tighten until the head of the screws are flush with the surface of the mounting plate.

IMPORTANT! The knockout on the back of the CS EVSE must be removed before proceeding to the next step. Use a T15 or T20 Torx driver and unlock the safety latch. Make sure to remove the entire knockout in the lower left side of the EVSE. Do not leave pieces remaining.

For Dual-Mount EVSE Installations

- The Dual-Mount Kit includes a second EVSE mounting plate. This second mounting plate is affixed to the back side of the pedestal post, opposite of the first mounting plate.
- Hold the EVSE mounting plate against the front side of the pedestal post **with the notch toward the left side to allow clearance for the conduit piece.**
- As with the first mounting plate, align the two screw holes and tighten two (2) ¼”-20 x ¾” Torx flat-head taper screws using a T27 Torx driver until the screw heads are flush with the surface of the mounting plate.

Figure 42: The CS EVSE Mounting Plate



CS EVSE INSTALLATION (continued)

4. Install the Single-Mount Back Bracket (Single-Mount only; if Dual-Mount proceed to Step 5)

A bracket with threaded inserts is included with the pedestal kit to make the installation more rigid and to provide threaded inserts for mounting the EVSE.

NOTE: THIS BRACKET IS NOT USED FOR DUAL-EVSE INSTALLATIONS.

- Place a ¼" Neoprene-bonded sealing washer around the shaft of two (2) ¼"-20 x 1" Torx button-head screws. The metal portion of the washer should face the head of the screw while the neoprene should face the tip of the screw.
- The top edge of the bracket is flush along its length, while the bottom edge of the bracket has a metal tab in the middle to accommodate a screw hole.
- Hold the bracket against the back side of the pedestal post and align the two screw holes along the centerline of the bracket with the corresponding holes in the Post Splice Brackets and the threaded inserts on the back of the pedestal post.
- Secure the bracket to the pedestal with the two (2) ¼"-20 x 1" Torx button-head screw and washer assemblies using a T27 Torx driver as shown in **Figure 43. NOTE: The neoprene washer must be used to maintain a watertight seal.**
- The four screws used in the following steps should be fairly snug but not fully tightened until the EVSE is set in place.
- Place a ¼" Neoprene-bonded sealing washer around the shaft of four (4) ¼"-20 x 1¼" Torx button-head screws. The metal portion of the washer should face the head of the screw while the neoprene should face the tip of the screw.
- Align the four (4) screw holes on the side flanges of the EVSE with the corresponding screw holes in the mounting plate and the threaded inserts on the back bracket. **A second installer must fully support the weight of the EVSE and keep it supported until the EVSE is firmly fixed in place. DO NOT ALLOW THE EVSE TO HANG BY ONE SCREW!**
- Align the top holes of the first two (2) Spacer Plates between the mounting plate and the back bracket, as shown in **Figure 44**, then secure the components with one screw at the top hole.
- Gently allow Spacer Plates to hang down. Do not place the bottom screw yet.
- Repeat the above for the top screw on the opposite side.
- Fasten both bottom screws into place.
- Fully tighten all four screws from the steps above to firmly mount the EVSE in place.

Figure 43: The Single-Mount Back Bracket

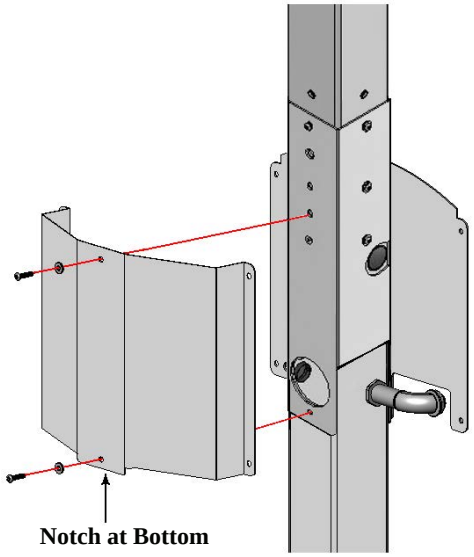
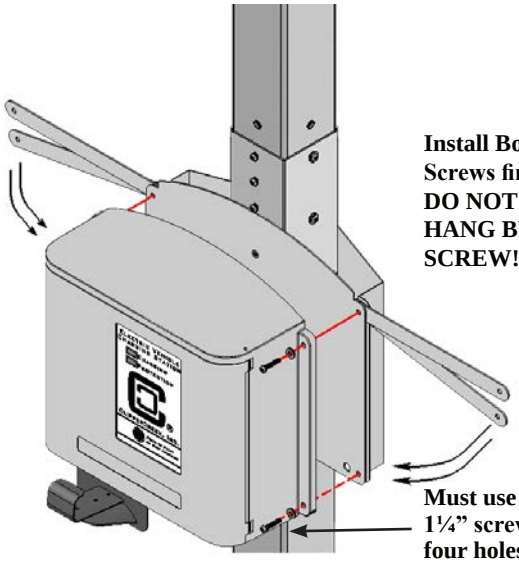


Figure 44: Mounting a Single EVSE



CS EVSE INSTALLATION (continued)

5. Mounting Two EVSE to the Pedestal

For an installation with two EVSE affixed to the same post, the CS Dual-Mount Kit provides two side brackets to be used in place of the single back bracket.

- Four spacer plates (one per each of the four corners) and eight (8) ¼”-20 x 1-¼” Torx button-head screw and washer assemblies will be required along with a T27 Torx driver.
- Place a ¼” Neoprene-bonded sealing washer around the shaft of eight (8) ¼-20 x 1-¼” Torx button-head screws. The metal portion of the washer should face the head of the screw while the neoprene should face the tip of the screw.
- For ease of assembly, temporarily secure one bracket and one Spacer Plate in place on each side of the same face. Refer to **Figure 45**.
- On the opposite face, align the four screw holes on the side flanges of the EVSE with the corresponding screw holes in the mounting plate and the threaded inserts on the back bracket. **The second installer must fully support the weight of the EVSE and keep it supported until the EVSE is firmly fixed in place. DO NOT ALLOW THE EVSE TO HANG BY ONE SCREW!**
- The eight screws used in the following steps should be fairly snug but not fully tightened until both EVSE are set in place.
- Align the top hole of one Spacer Plate between the mounting plate and side bracket as shown in **Figure 46**, then secure the components with one screw at the top hole.

Figure 45: Temporarily Hold Dual-Mounting Brackets and Spacers in Place

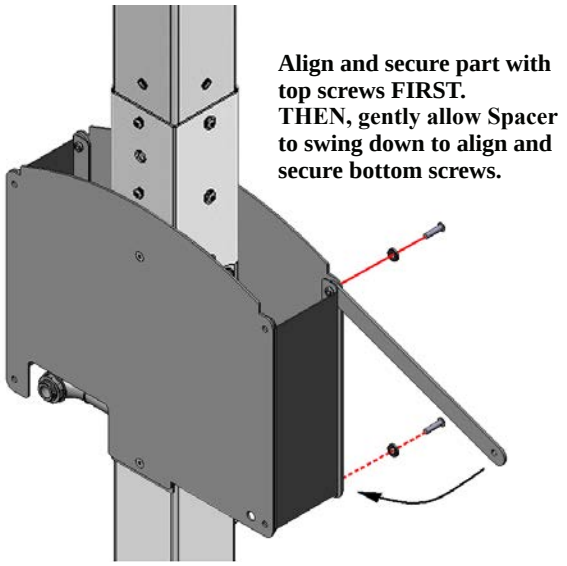
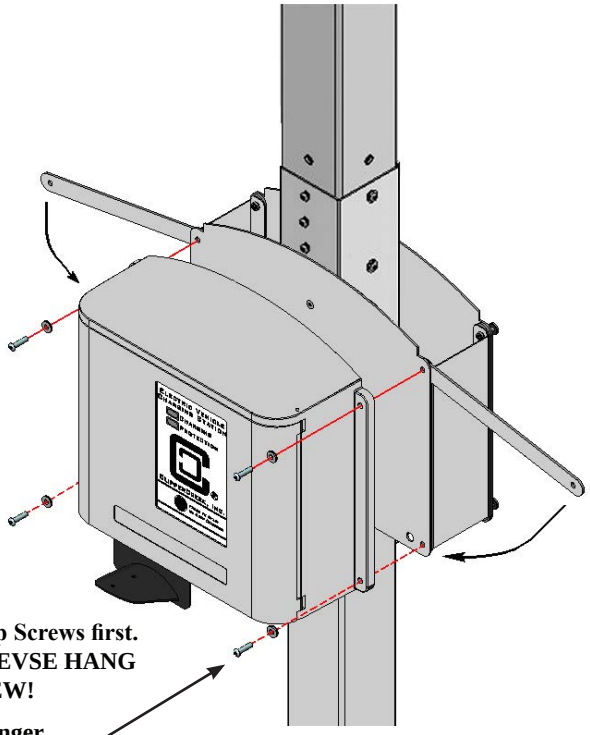


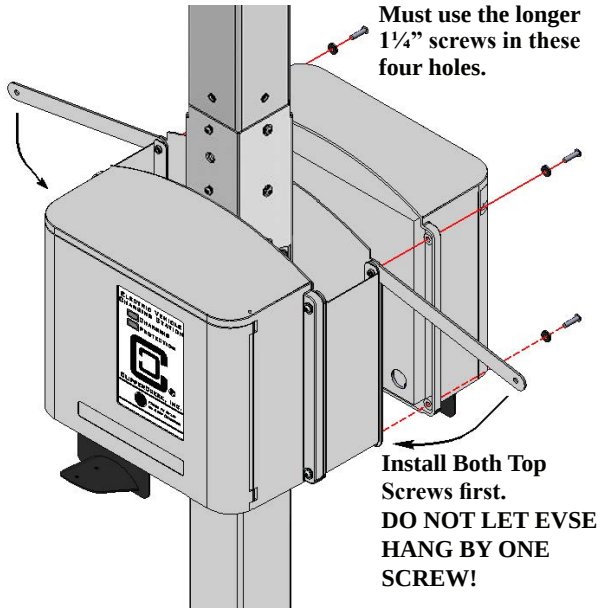
Figure 46: Mounting the First of Two EVSE with Dual-Mount Kit



CS EVSE INSTALLATION (continued)

- Gently allow spacer plate to hang down. Do not place the bottom screw yet.
- Repeat the above for the top screw on the opposite side of the first EVSE.
- Fasten both bottom screws into place.
- To install the second EVSE remove the screws temporarily inserted and repeat the previous steps on the opposite side, as shown in **Figure 47**.
- Fully tighten all eight screws from the steps above to securely mount both EVSE in place.
- Above each EVSE on the pedestal post are two (2) ¼”-20 threaded insert holes for optional installation of EV signage.

Figure 47: Mounting the Second of Two EVSE with Dual-Mount Kit

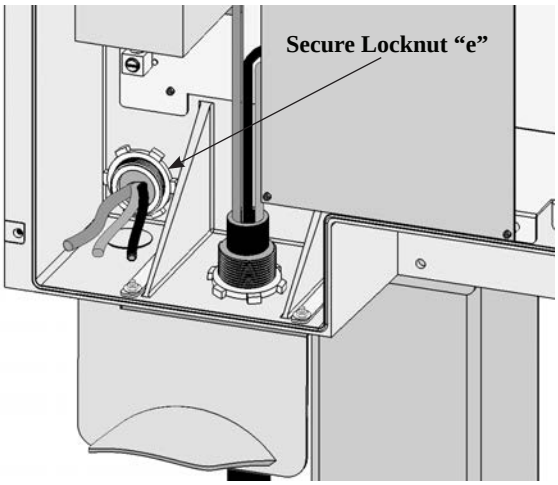


6. Seal the Conduit and Enclosure

It is necessary to ensure a good environmental seal between the conduit piece and the rear wall of the EVSE.

- To open the EVSE door, remove the two door screws on the left side of the EVSE enclosure using a T15 or T20 Torx driver. Unlock the safety latch on the bottom of the EVSE enclosure and swing the door open.
- Pull the three conductor wires into the enclosure and insert the threaded end of the 90 degree conduit fitting into the open aperture.
- Thread the remaining conduit locknut **(**labeled as ‘e’ in **Figure 37** and **Figure 38)** onto the conduit fitting and hand-tighten it until it is snug. See **Figure 48**.
- **Apply silicone sealant to fill the conduit where it enters the enclosure. Use a sufficient quantity of silicone to ensure no water or debris may enter the enclosure through the conduit.**

Figure 48: Tighten the Conduit Lock Nut

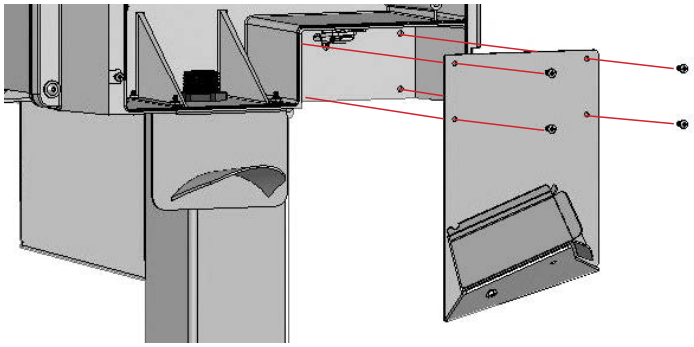


CS EVSE INSTALLATION (continued)

7. Install the CS Series Connector Holster/Holsters

- Attach the Connector Holster Assembly to the CS Unit using the four machine screw fasteners provided with the Holster assembly. The Holster will attach to the CS unit on the lower right hand corner of the enclosure, just below the door latch as shown in **Figure 49**.
- Use a #2 Phillips screwdriver for installation. **(If using a powered screwdriver, set it to a low torque value.)**
- Place connector into the holster for storage.

Figure 49: Install the CS Series Connector Holster(s)



8. Wiring the Conductors to the CS

Refer to the latest CS User Manual for instructions on wiring the CS EVSE.

Download or view the most recent version of the CS User Manual at: ClipperCreek.com/installation-manuals

9. Complete the Installation

- Close the CS main door, lock the safety latch and use a T15 or T20 Torx driver to tighten enclosure door. Place connector into the holster for storage.
- Verify the safety of the installation prior to turning on the circuit breaker.
- Refer to the EVSE User's Guide for further operational and maintenance information.
- Repeat steps 6-8 on the second CS unit if building a Dual-Mount.

INSTALLATION OF THE CS EVSE IS NOW COMPLETE. PLEASE REFER TO THE CS USER MANUAL FOR TROUBLE-SHOOTING AND ADDITIONAL INFORMATION.

PROCEED TO THE NEXT PAGE FOR THE FINAL EXTENSION KIT INSTALLATION INSTRUCTIONS.

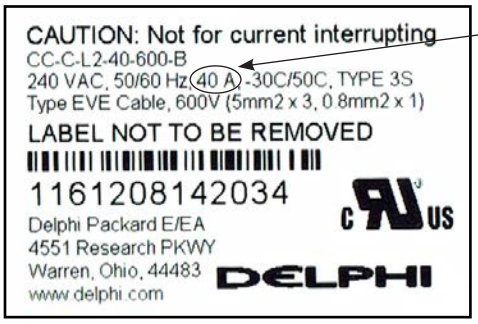
FINAL EXTENSION KIT INSTALLATION

1. Attach the Cable Clamp

The cable management system requires that a cable clamp be attached to the EVSE charge cable and then to the Cable Retractor Box.

- Two cable clamp sizes are provided. Examine the EVSE charge cable sticker, as shown in **Figure 51**, to determine the amperage rating. Cables **up to and including 40A** use the cable clamp with two holes (Cable Clamp A). Higher power cables **(65A & 80A)** use the single hole clamp (Cable Clamp B). Refer to **Figure 51**.
- The cable clamp should be attached to the cable at **nine (9) feet** from the EVSE. This distance provides the correct cable management by keeping the cable off the ground without any loops between the cable clamp and the EVSE. Refer to the configuration images at the beginning of the manual for details.
- Secure the cable clamp to the EVSE charge cable by using the four (4) ⅝" Phillips screws with a #2 Phillips screwdriver. Refer to **Figure 51**.
- The cable clamps should not be moved once they are attached to the cable. Do not try to pull or force the cable clamps into another position. If repositioning is required, remove the cable clamp completely and repeat previous steps.
- To connect the cable clamp to the Pedestal Extension, use the plastic coupler which is secured at the end of the Retractor cable. Refer to **Figure 52**.
- Fasten the cable clamp tightly to the plastic coupler using the 10-32 x 1¼" long screw and 10-32 nut provided in the cable clamp kit with a ¼" slotted screwdriver.
- Insert the vehicle connector into the holster.
- Repeat Step 1 on the opposite side(s) for Dual or Quad-Mount installations.

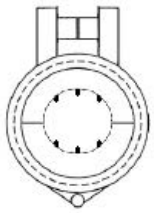
Figure 50: Cable Rating and Cable Clamps



Cables **up to and including 40A** use the cable clamp with two holes (Cable Clamp A)

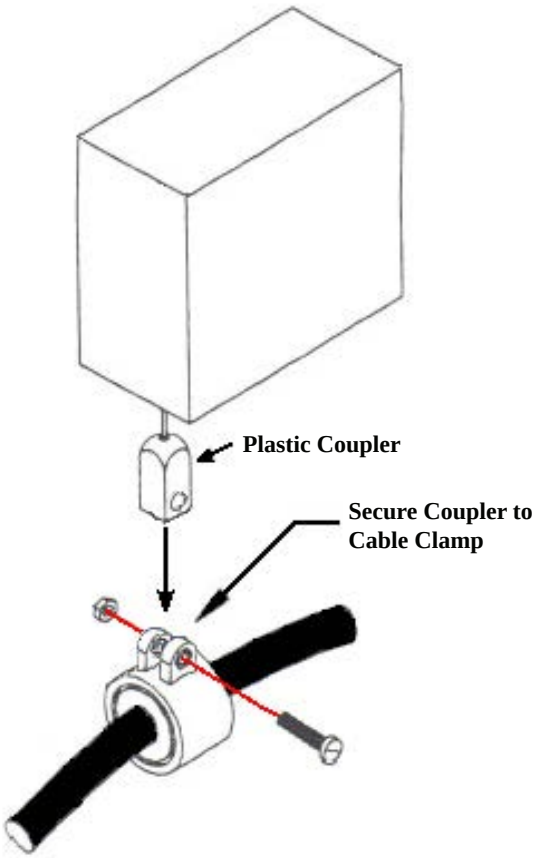
Higher power cables **(65A & 80A)** use the single hole clamp (Cable Clamp B)

CABLE CLAMP A



CABLE CLAMP B

Figure 51: Retractor Box with Plastic Coupler



FINAL EXTENSION KIT INSTALLATION (continued)

2. Adjust Retractor Box Cable Tension

To obtain proper tension for your specific installation, the Retractor Box cable tension should be adjusted with the EVSE charge cable already attached. The recommended procedure for adjusting tension of the Retractor Box cable is as follows:

- The protective cover must be removed from the Retractor Box. Remove the four Phillips screws using a #2 Phillips screwdriver and pull the cover off.
- **WARNING: Use caution when adjusting tension! The stored energy from the retractor wheel winding must be safely restricted while performing this adjustment.**
- Remove one loop at a time from the retractor reel until there is a slight droop in the retractor cable and it does not fully retract when unsupported.
- Add one loop back in to achieve full retraction while providing the lowest tension possible for end users.

THE FINAL PEDESTAL INSTALLATION OF THE HCS OR CS PEDESTAL EXTENSION KIT IS NOW COMPLETE.

CUSTOMER SUPPORT

Call your Service Representative at any time, 24 hours a day, at the number below. **PLEASE HAVE THE MODEL NUMBER AND SERIAL NUMBER AVAILABLE WHEN YOU CALL.** These can be found on the side of the product. If your call is made after business hours or on weekends, please leave your name, telephone number, the unit's serial number, and a brief description of the problem. A Service Representative will call back at the earliest opportunity.

Distributor Service Number Here

TO CONTACT CLIPPERCREEK DIRECTLY FOR SERVICE CALL (877) 694-4194 MONDAY THROUGH FRIDAY BETWEEN 8:00AM AND 5:00PM PACIFIC TIME.

LIMITED WARRANTY – ELECTRIC VEHICLE SUPPLY EQUIPMENT and ACCESSORIES

Enphase Energy, Inc. through its ClipperCreek division
11850 Kemper Road
Auburn, California 95603
Phone: 877-694-4194
Email: information@clippercreek.net

Subject to the terms and conditions below, Enphase Energy, Inc. (**"Enphase"**) provides the following limited warranty to the original purchaser of the products (**"Covered Owner"** or **"you"**):

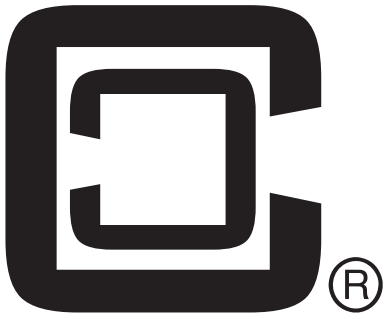
Product 1-year parts, 1-year factory labor:
Subject to the terms and conditions below, Enphase warrants the product to be free from defects in material and workmanship for a period of 1 year commencing on the date of installation (first use) (the **"Warranty Period"**). Except where prohibited by applicable law, the product installation date must be evidenced and communicated to Enphase by way of the product registration card (or its equivalent). The product registration card must be filled out completely and accurately, and returned to Enphase within 30 days after installation, and the product installation date shall be within 6 months after the purchase date. If a Product installation date is not communicated to Enphase as described above, the product purchase date indicated in the Covered Owner's proof of purchase for the product shall serve as the start date of the Warranty Period.

If Enphase confirms the existence of a defect that is covered by this Limited Warranty, Enphase will, at its option, repair or replace the product, or refund the actual purchase price for the product less reasonable depreciation based on use at the time that Enphase is notified of the defect. Enphase will not elect to issue a refund unless (i) Enphase is unable to provide a replacement and repair is not commercially practicable or cannot be timely made, or (ii) Covered Owner is willing to accept such a refund. If a defect in material or workmanship exists in the product, to the extent permitted by law, these are the sole and exclusive remedies. Repair parts and/or replacement products may be either new or reconditioned at Enphase's discretion. This limited warranty does not cover defects caused by improper installation or use, including but not limited to improper connections with peripherals, external electrical faults, accident, disaster, misuse, abuse, or modifications to the product not approved in writing by Enphase. Any service repair outside the scope of this limited warranty shall be at applicable rates and terms then in effect. This warranty covers factory parts and factory labor only; it does not cover field service or removal and replacement of the product or any other costs.

All other express and implied warranties for this product including the warranties of merchantability, fitness for a particular purpose, and non-infringement are hereby disclaimed. Some states do not allow the exclusion of implied warranties or limitations on how long an implied warranty lasts, so the above limitation may not apply to you. In no event will Enphase, any of its authorized sales and service representatives, or its parent company be liable to Covered Owner or any third party for any damages in excess of the purchase price of the product. This limitation applies to damages of any kind including any direct or indirect damages, lost profits, lost saving or other special, incidental, exemplary or consequential damages whether for breach of contract, tort or otherwise or whether arising out of the use of or inability to use the product, even if Enphase or an authorized Enphase representative or dealer has been advised of the possibility of such damages or of any claim by any other party. Some states do not allow the exclusion or limitation of incidental damages for some products, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

To obtain warranty service:
Call your nearest authorized Service Representative or the ClipperCreek division of Enphase at the above number. You will receive information as to how service for the product will be provided. If you mail or ship the product in for service, you must insure the product, prepay all shipping charges, and properly pack it for shipment in its original shipping container or its equivalent. You are responsible for all loss or damage that may occur in transit. You must provide proof of purchase for the product and the purchase date before any warranty service can be performed.

This page is intentionally blank.



CLIPPERCREEK

A division of Enphase Energy, Inc.

WWW.CLIPPERCREEK.COM
877-694-4194