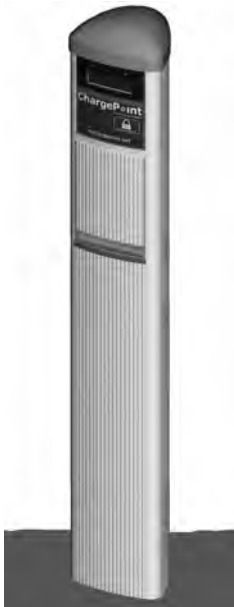


CT1500 Family ChargePoint® Networked Charging Stations

CT1501 Bollard Mount



CT1502 Pole Mount



CT1503 Wall Mount



Installation Guide



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Part Number: 75-001015 Revision 1.0

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

This manual contains important instructions that must be followed during installation of a ChargePoint® Networked Charging Station. Install using 2mm (12AWG) or larger copper conductors rated for at least 75 °C.

Grounding instructions

The ChargePoint® Networked Charging Station must be connected to a grounded, metal, permanent wiring system; or an equipment-grounding conductor is to be run with circuit conductors and connected to the equipment grounding terminal or lead on the Electric Vehicle Supply Equipment (EVSE). Connections to the EVSE shall comply with all local codes and ordinances.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case, you will be required to correct the interference at your own expense.

Important: Changes or modifications to this product not authorized by Coulomb Technologies, Inc., could affect the EMC compliance and revoke your authority to operate this product.

Exposure to Radio Frequency Energy: The radiated power output of the Zigbee radio and cellular modem (optional) in this device is below the FCC radio frequency exposure limits for uncontrolled equipment. This device should be operated with a minimum distance of at least 20 cm between the Zigbee and Cellular antennas and a person's body and must not be co-located or operated with any other antenna or transmitter by the manufacturer, subject to the conditions of the FCC Grant.

Safety and compliance

This document provides instructions to install the ChargePoint® Networked Charging Station and should not be used for any other product. Before installing the ChargePoint® Networked Charging Station, you should review this manual carefully and consult with a licensed contractor, licensed electrician and trained installation expert to ensure compliance with local building practices, climate conditions, safety standards, and state and local codes.

The ChargePoint® Networked Charging Station should be installed only by a licensed contractor and a licensed electrician and in accordance with all local and national codes and standards. The ChargePoint® Networked Charging Station should be inspected by a qualified installer prior to the initial use. Under no circumstances will compliance with the information in this manual relieve the user of his/her responsibility to comply with all applicable codes or safety standards.

No accuracy guarantee

Reasonable effort was made to ensure that the specifications and other information in this manual are accurate and complete at the time of its publication. However, the specifications and other information in this manual are subject to change at any time without prior notice.

Warranty information and disclaimer

Your use of, or modification to, the ChargePoint® Networked Charging Station in a manner in which the ChargePoint® Networked Charging Station is not intended to be used or modified will void the limited warranty. Other than any such limited warranty, the Coulomb products are provided "AS IS," and Coulomb and its distributors expressly disclaim all implied warranties, including any warranty of design, merchantability, fitness for a particular purposes and non-infringement, to the maximum extent permitted by law.

Limitation of liability

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Introduction

1

This document describes how to install any ChargePoint® Networked Charging Station in the CT1500 family. It includes step-by-step instructions for installing the body assembly for the following stations:

- CT1501 Bollard Mount (see Chapter 2)
- CT1502 Pole Mount (see Chapter 3)
- CT1503 Wall Mount (see Chapter 4)

After you install the body assembly, you will be ready to install the head assembly. The head assembly ships in a separate box and is identical for each type of station. The procedure you follow to install a head assembly is also the same for each type of station. See Chapter 5.

Before installing stations

The instructions provided in this guide assume that the appropriate wiring, circuit protection, and metering is in place at the installation location. Before you install, you must also ensure that the type of modem in each station you are installing is compatible with the type of modem coverage available at the installation site (CDMA or GPRS).

To assist in the process of preparing the installation site, thoroughly review the following documents:

- wiring diagrams (provided on pages 3 and 4 of this document)
- CT1500 and CT2500 ChargePoint® Networked Charging Stations Data Sheet*
- Assessing Wireless Coverage for a Proposed Installation Site*
- Base Plate Template (for Bollard Mount charging stations)*



IMPORTANT: If you are printing the PDF version of the Base Plate Template, be sure to print at 1:1 scale.

Note: If you are installing a Bollard Mount charging station, you may want to prepare the site by following the instructions in “Step 4 - Install J-Bolts and conduit” on page 2-5 of this document.

- ChargePoint® Network Service Card Tutorial for Networked Charging Stations*

*These documents are available from Coulomb Technologies.

It is also recommended that before you begin installing charging stations, you thoroughly review the contents of this document to familiarize yourself with the required installation steps.

Specifications

Charging connection: CEE7 or BS1363 outlet

AC charging power output: 3.7kW (230V at 16A)

AC power input: 230V 16A

Required Panel Mount RCCB with integrated overcurrent protection, rated 230V, 16A, trip curve B, 30mA RCD, 50 Hz*

Integrated supplementary hardware RCD: 20mA with auto reset (15 minute delay, 3 tries)

EMC compliance: IEC 61851-22:2001; CISPR 22 Class B; CISPR 16 Class B; EN55022; EN61000-3-2; EN61000-3-3; EN301-489-1 V1.8.1; EN301-489-3 V1.4.1

Operating temperature: -30 °C to +50 °C (-22 °F to 122 °F)

Operating humidity: Up to 95%

Voltage and current rating: 230VAC, 16A

Approximate shipping weight: Bollard Mount - 23 kg (50 lbs), Pole Mount - 14 kg (30 lbs), Wall Mount - 15 kg (33 lbs)

Outdoor rated: IP44 per IEC 60529

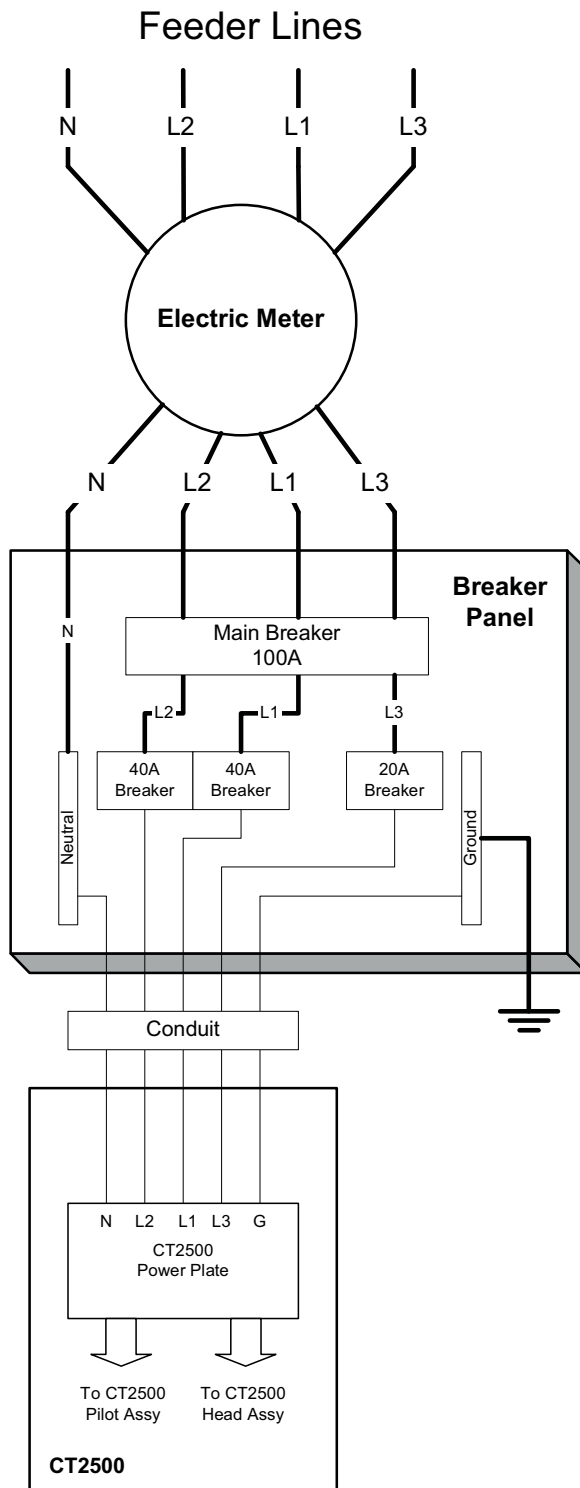
Safety compliance: IEC 61851-1, -22; EN60950-1; EN60950-22

Surge protection: 6kV @ 3000A per IEC1000-4-5. In geographic areas subject to frequent thunder storms supplemental surge protection at service panel is recommended.

***NOTE:** Model CT1501-BRK includes an integrated breaker that meets this specification.

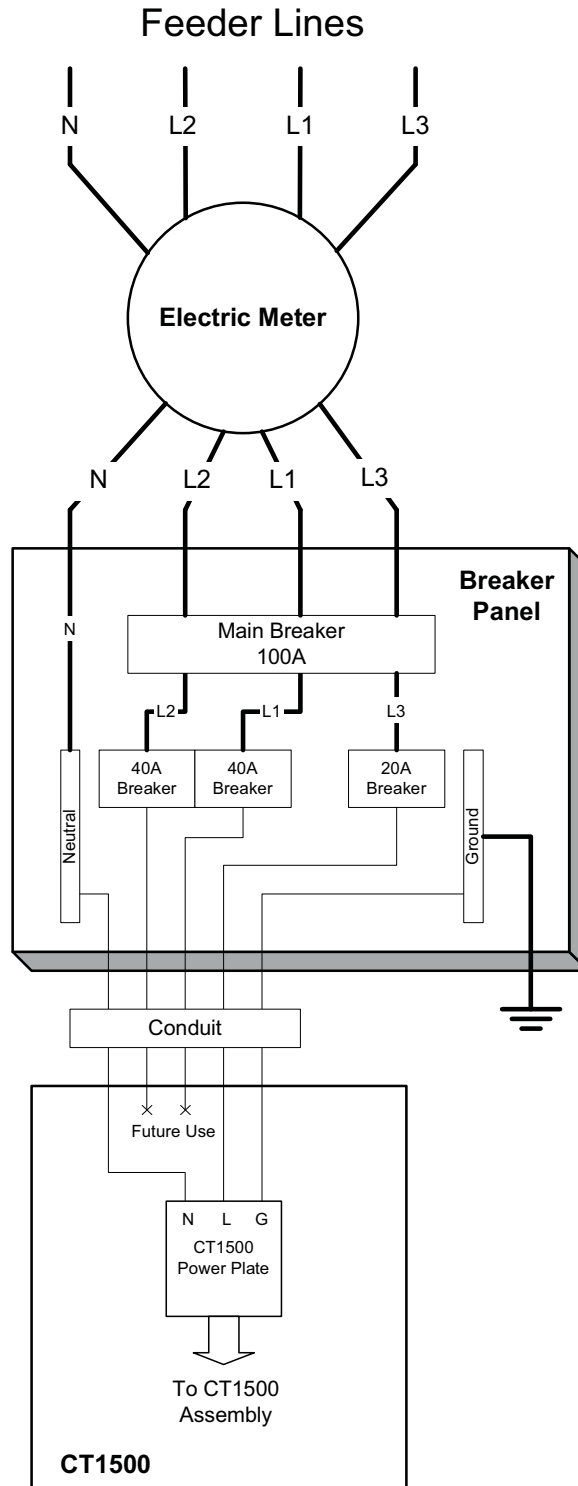
Wiring diagram (to accommodate future upgrade to a CT2500)

The wiring shown below is recommended for installations that expect to upgrade from a CT1500 to a CT2500.



Wiring diagram (CT1500 only)

The wiring shown below is recommended for installations that *do not* expect to upgrade from a CT1500 to a CT2500 charging station.



Installing a Bollard Mount

2

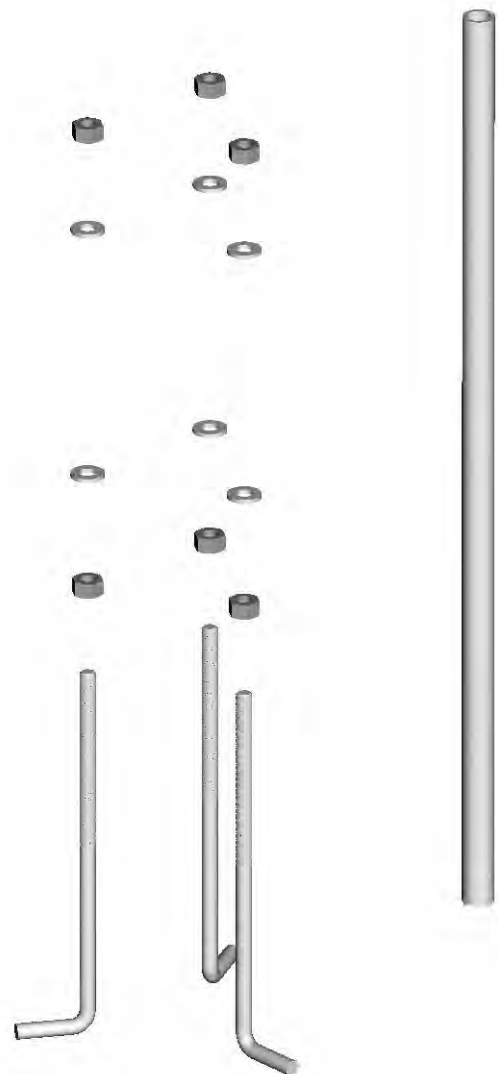
This section describes how to install the CT1501 and CT-1501-BRK Bollard Mount ChargePoint® Networked Charging Stations. The instructions for these two types of stations are the same except where noted. For simplicity, the CT-1501 version is illustrated in all steps that apply to both types of stations.

Before you start

You will need:

- a CT1501 or CT1501-BRK Bollard Mount ChargePoint® Networked Charging Station (2 boxes)
- 3 J-Bolts with matching nuts and washers: up to 12 mm ($\frac{1}{2}$ ") thread diameter, length must comply with local codes
- 38 mm (1 $\frac{1}{2}$ ") conduit
- Torx Driver T15 - Tamper-Resistant
- #2 Phillips screwdriver
- #2 Slotted screwdriver

INSTALLER SUPPLIED COMPONENTS:



Overview of steps

Installing the ChargePoint® Networked Charging Stations involves a few simple steps:

1. Check boxes for correct contents (see page 2-2)
2. Remove front body panel (see page 2-3)
3. Remove body casing (see page 2-4)
4. Install J-Bolts and conduit (see page 2-5)
5. Mount base plate/pole assembly (see page 2-6)
6. Install body casing (see page 2-7)
7. CT1501-BRK only: Remove breaker panel cover (see page 2-8)
8. Connect wires to wiring terminals (see page 2-9)
9. CT-1501-BRK only: Replace breaker panel cover (see page 2-11)
10. Replace front panel (see page 2-12)

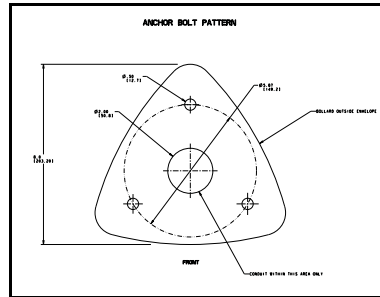
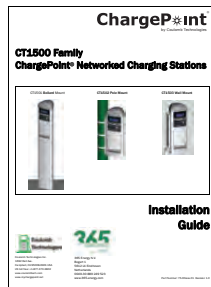
These steps are detailed in the remainder of this chapter. When you have completed these steps, you will be ready to install the head assembly as described in Chapter 5, Installing the head assembly.

Step 1 - Check boxes for correct contents

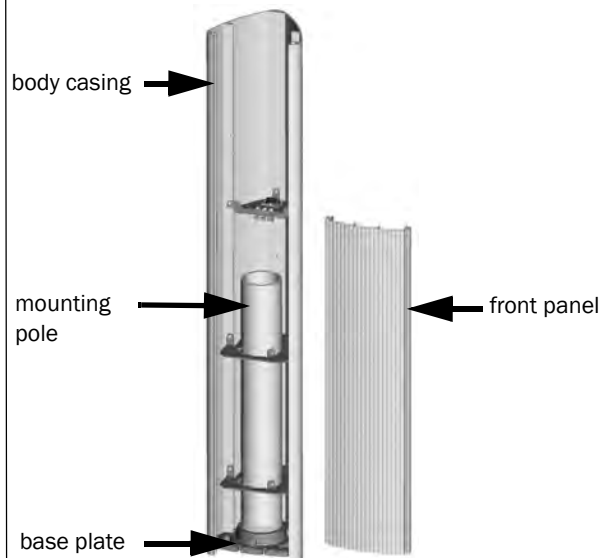
Bollard Mount Assembly

The CT1501 ChargePoint® Networked Charging Station's body assembly ships in a box containing:

- Main body assembly (including body casing, front panel, mounting pole, and base plate)
- Base plate template
- Allen key
- Installation instructions



The body casing, front panel, mounting pole, and base plate are pre-assembled.



Step 2 - Remove front panel

To remove the front panel:

- Use the supplied allen key to loosen the 2 screws that fasten the panel to the body.
- Disconnect the bonding wire.

Slide the front panel upwards to remove.

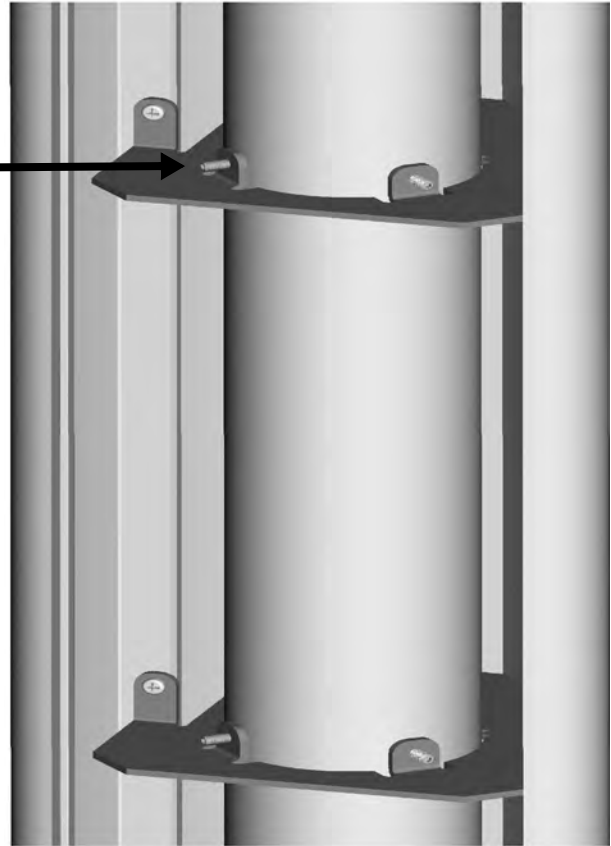


Step 3 - Remove body casing

To remove the body casing:

- Use the supplied allen key to loosen the 4 set screws (2 on each bracket).
- Slide the body casing upwards to remove.

Loosen the four set screws to remove the body casing.

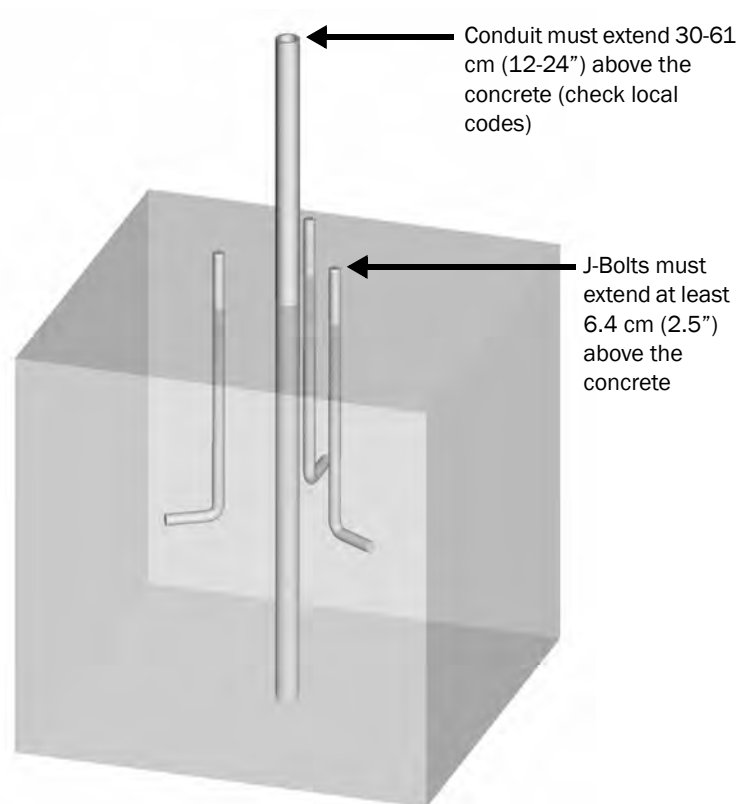


Step 4 - Install J-Bolts and conduit

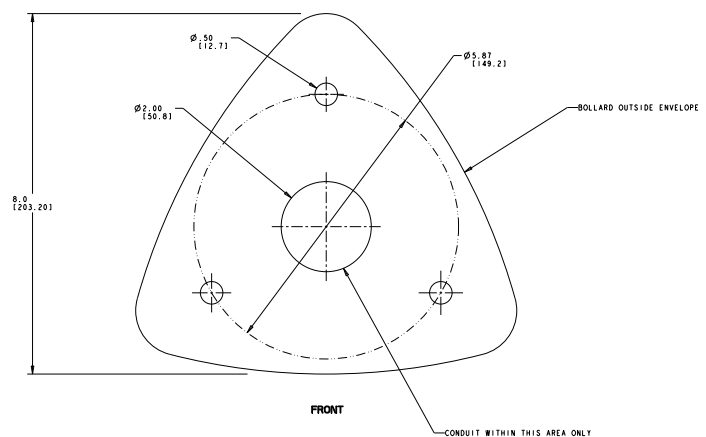
Install J-Bolts and conduit into concrete as illustrated. Use the supplied base plate template to ensure correct alignment.

! **IMPORTANT:**

- The concrete block must measure at least 46 cm (18") on all sides. Check local codes to ensure compliance.
- The J-Bolts must extend at least 6.4 cm (2.5") above the concrete.
- The conduit must extend 30 to 61 cm (12" to 24") above the concrete, or according to local codes.



ANCHOR BOLT PATTERN



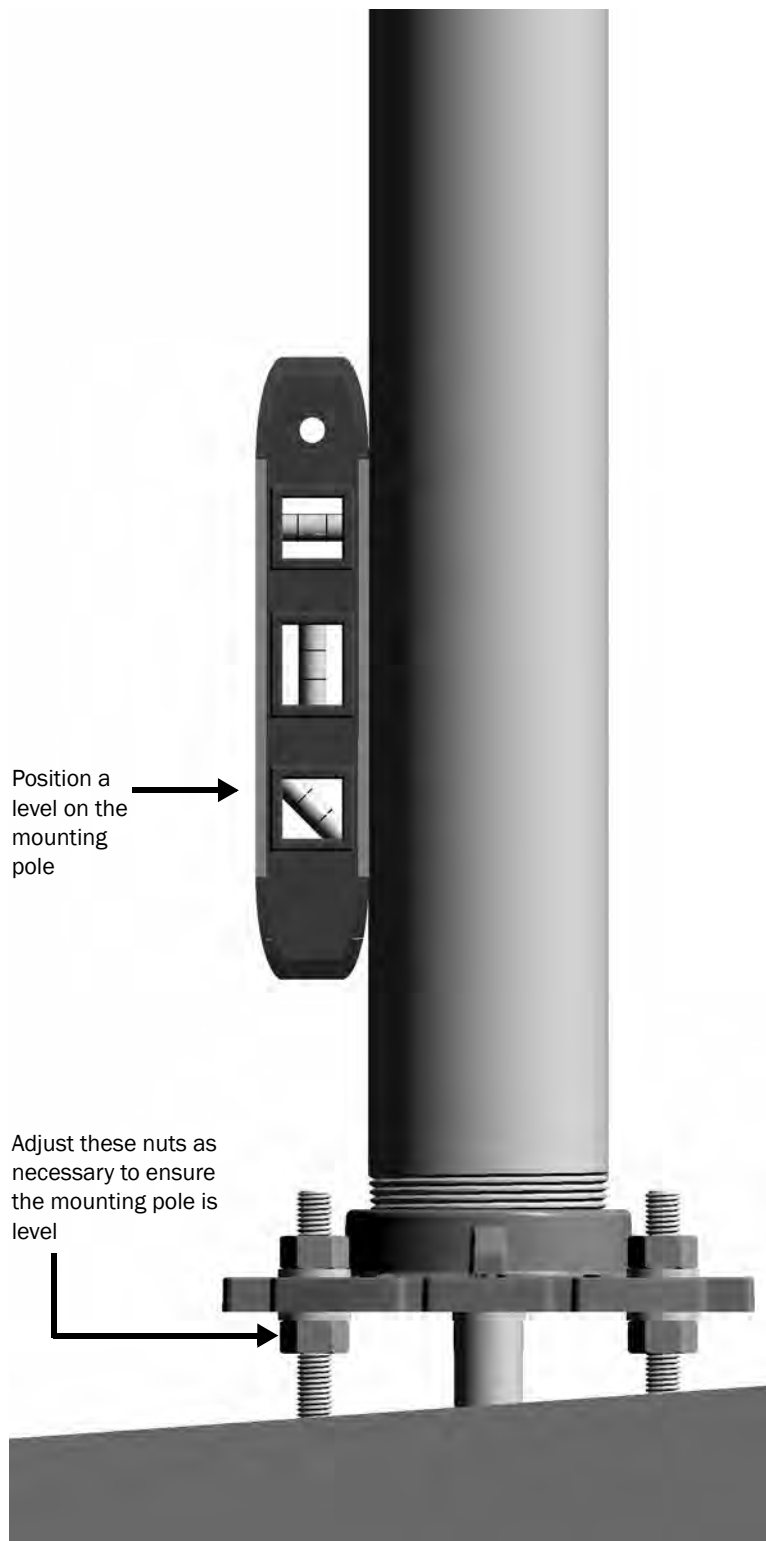
Step 5 - Mount base plate/pole assembly

Pull Neutral (blue), Line (brown), and Protective Earth (green/yellow) wires up through the conduit and the mounting pole.

Place the base plate/mounting pole assembly over the wiring conduit and attach the base plate to the J-Bolts using the installer-supplied nuts and washers as shown.

Adjust the nuts as necessary to ensure the mounting pole is level. When level, tighten the nuts.

! **IMPORTANT:** Ensure the base plate/pole assembly is level by adjusting the nuts underneath the base plate.




Step 6 - Install body casing



Slide the body casing over the mounting pole and base plate.

Ensure the body casing is level.

Secure the body casing to the mounting pole by tightening the four set screws using the supplied allen key.

 **IMPORTANT:** Ensure the body casing is firmly aligned to the bottom surface and that no movement (rocking) can take place, even when significant pressure is applied.



When level, →  

tighten all 4
set screws



Step 7 (CT1500-BRK only) - Remove breaker panel cover

If you are installing the CT1500-BRK, remove the four screws used to connect the breaker panel's cover to the body panel.

Remove the 4 screws from the breaker panel's cover →



Step 8 - Connect wires to wiring terminals

Note: For details on connecting wires to the CT1501-BRK, see the next page.

CT1501:

Pull Neutral (blue), Line (brown), and Protective Earth (green/yellow) wires into body assembly and connect to wiring terminals.

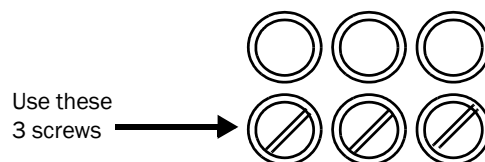
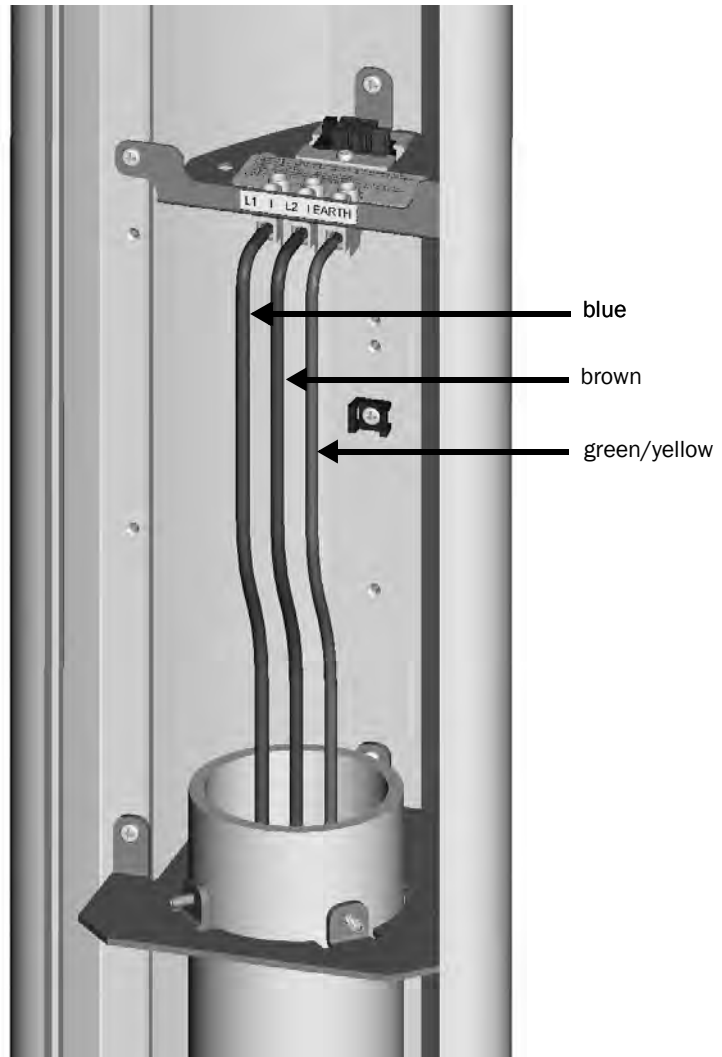
Solid wires are preferred but stranded wires with crimp-on PIN terminators are also OK.

Strip wires, insert in terminal block, and tighten screws to 2.1 Nm (18.5 inch-lbs).



IMPORTANT:

The CT1501 does not include an integrated breaker and therefore requires a dedicated 16A, trip curve B, breaker with integral 30mA RCD. Install breaker with integrated RCCB in building panel. This Equipment has been evaluated as Overvoltage Category II—do not connect directly to power distribution network without additional surge protection (Overvoltage Category III per IEC 60664). See label located on power plate.



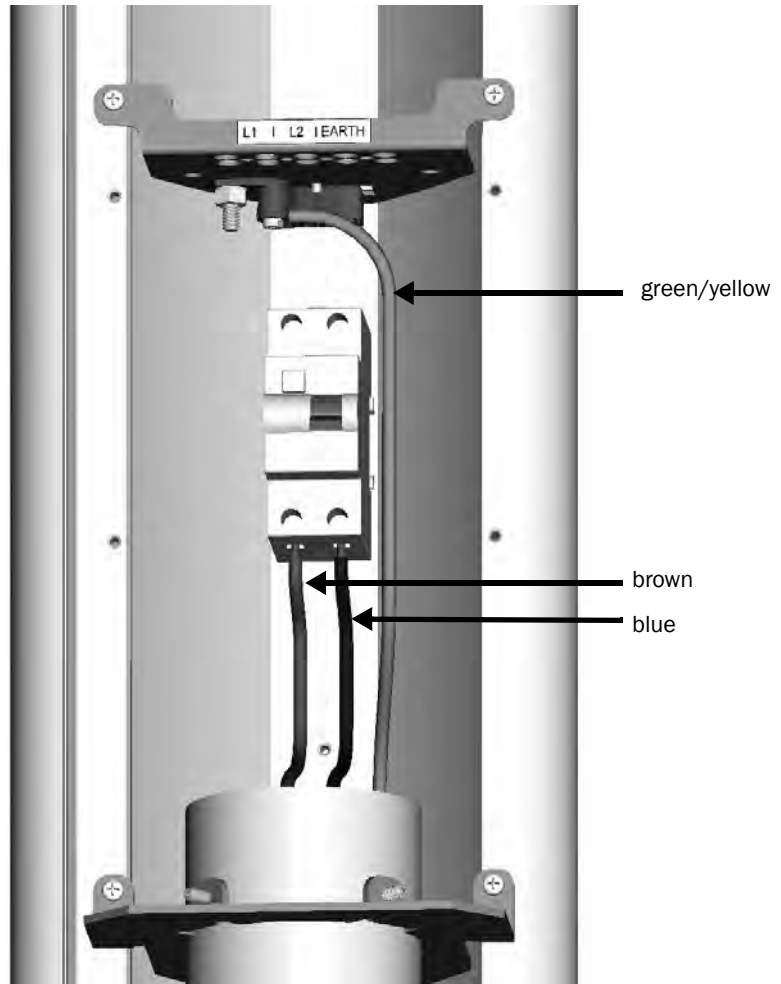
| | | | |
|------------------------------------------------------------------------------------|--|-----------|------------------------------------|
| Coulomb Technologies, Inc. | | | |
| Model CT1501-BD - For use with Model CT1500. | | | |
| Input: 230 VAC, 50 Hz, 16A - See installation manual. | | | |
| Warning: External RCCB Breaker Required. | | | |
| Input terminal recommended tightening torque: 2.1 Nm - Use copper conductors only. | | | |
| Input terminal wire size range: 4.1mm to 2.05mm solid or stranded. | | | |
| | | 230 V | |
| | | N L EARTH | |
| | | | Power Plate S/N: SER. NO. LABEL |

Step 8 cont'd

CT1501-BRK:

Pull Neutral (blue), Line (brown), and Protective Earth (green/yellow) wires into body assembly and connect to the integrated breaker switch as illustrated.

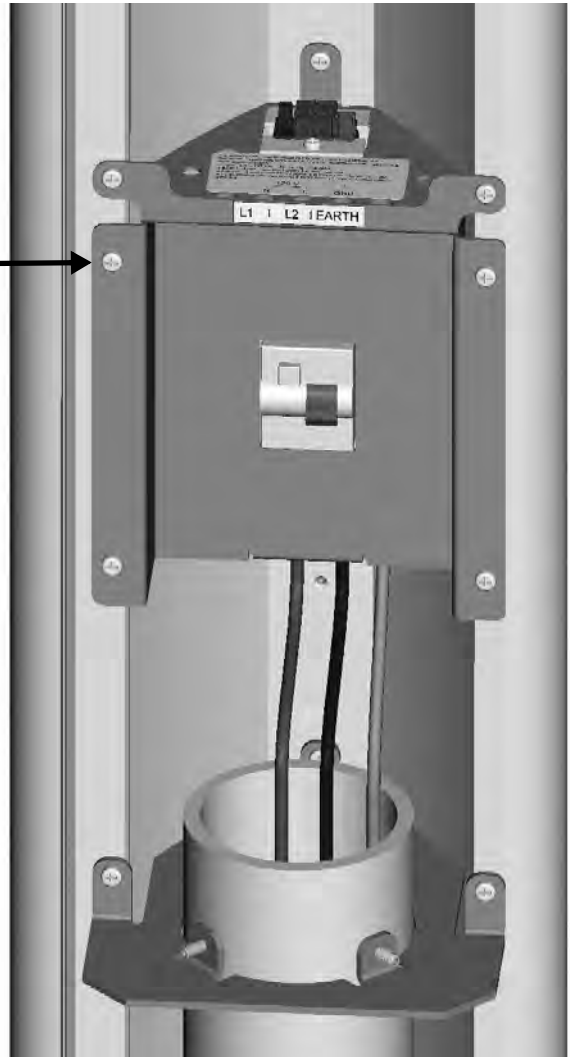
Solid wires are preferred but stranded wires with crimp-on PIN terminators are also OK.



Step 9 (CT1500-BRK only) - Replace breaker panel cover

If you are installing the CT1500-BRK, re-attach the breaker panel's cover using the 4 screws you removed in step 7.

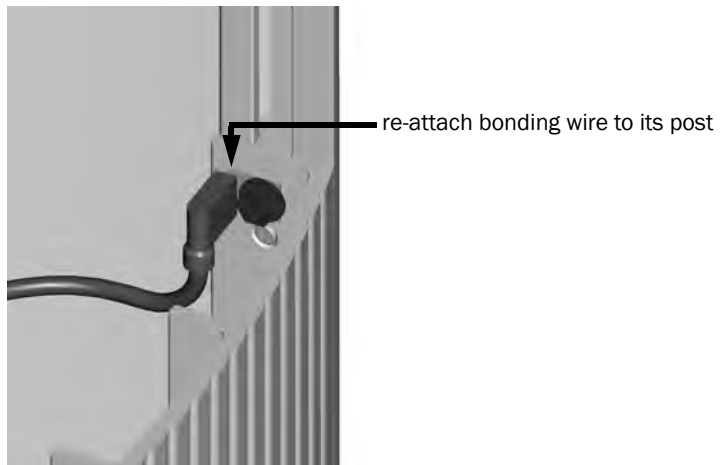
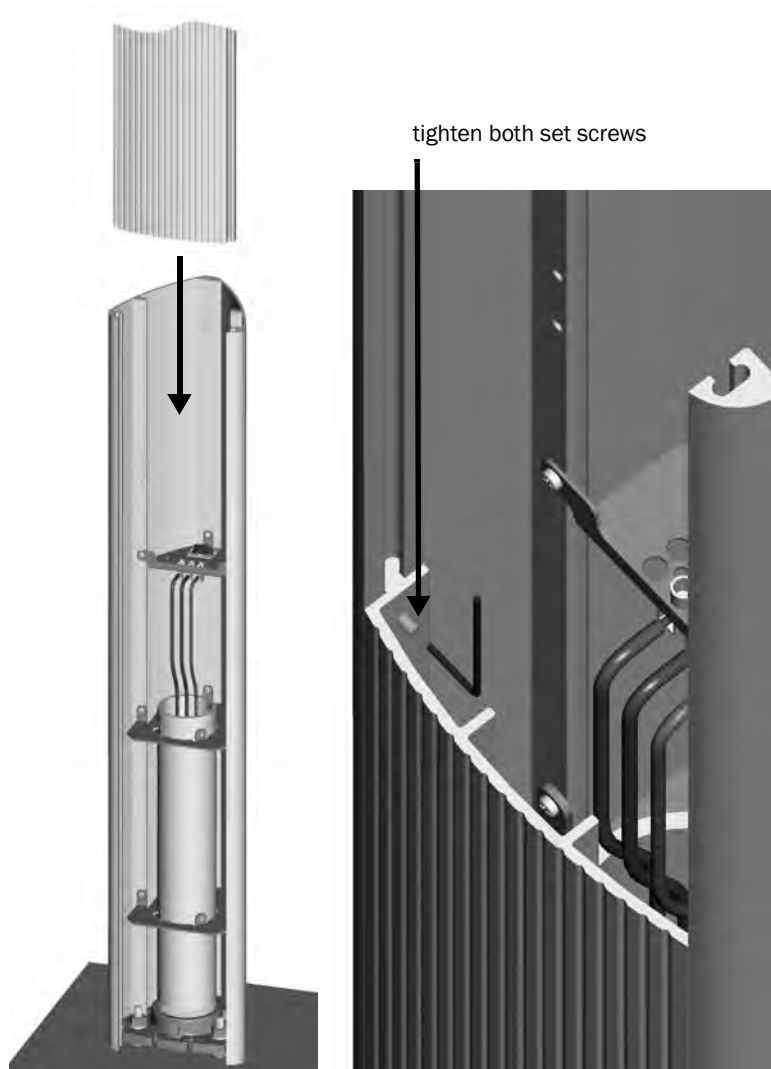
Re-attach the breaker panel's cover using the 4 screws



Step 10 - Replace front body panel

Slide the front body panel into place.
Use the supplied allen key to tighten
the two set screws.

Re-attach bonding wire by pushing it
onto its post



You have now finished installing the
body assembly for the CT1001
ChargePoint® Networked Charging
Station's body assembly. For details on
installing the head assembly, see
Chapter 5, Installing the head
assembly.

Installing a Pole Mount

Before you start

You will need:

- CT1502 ChargePoint® Networked Charging Station body assembly
- Torx Driver T15 - Tamper-Resistant
- 20 mm (¾") .76 mm (0.030") stainless steel banding
- Banding tool(s)
- #2 Phillips screwdriver
- #2 Slotted screwdriver

Overview of steps

Installing the CT1502 ChargePoint® Networked Charging Station's body assembly involves a few simple steps:

1. Check box for correct contents (*see page 3-2*)
2. Prepare body assembly for mounting (*see page 3-3*)
3. Drill hole in pole (*see page 3-4*)
4. Strap body assembly to pole (*see page 3-5*)
5. Connect wires to wiring terminals (*see page 3-6*)

These steps are detailed in the remainder of this chapter. When you have completed these steps, you will be ready to install the head assembly as described in Chapter 5, Installing the head assembly.

Step 1 - Check box for correct contents

Pole Mount Assembly

The CT1502 ChargePoint® Networked Charging Station's body assembly ships in a box containing:

- Main body
- Pole bracket
- Screws (4) and washers (4)
- Pole conduit with gasket
- Pole conduit nuts (2)
- Allen key
- Installation instructions



Step 2 - Prepare body assembly for mounting

Attach the pole conduit coupler to the body assembly as shown.



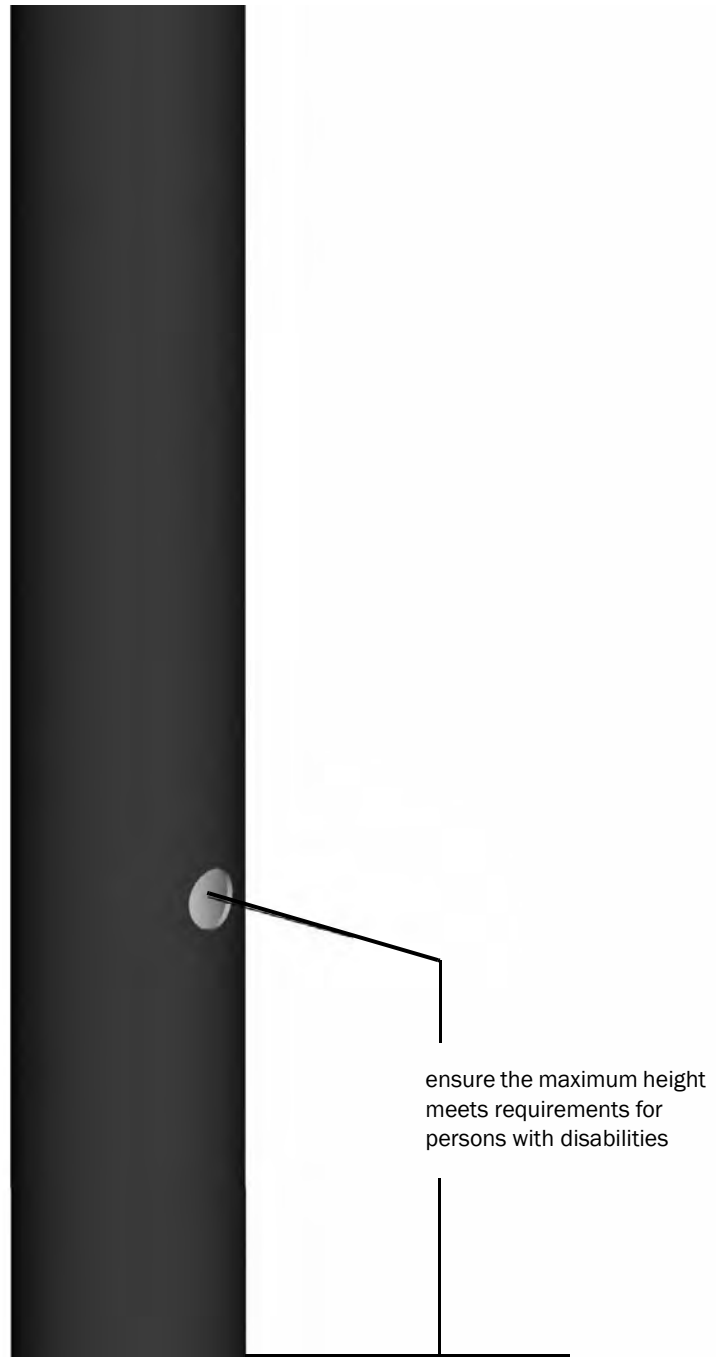
Attach the body assembly to the pole bracket using the four supplied screws and washers.



Step 3 - Drill hole in pole

Drill a 38 mm (1 ½") hole in the pole to accommodate the 32 mm (1 ¼") OD coupling.

The maximum height above the surface should be set to meet any local or national requirements for persons with disabilities.



Step 4 - Strap body assembly to pole

Insert the coupler into the hole and hold the body assembly in place using a temporary strap.



Strap the body assembly to the pole using 20 mm ($\frac{3}{4}$ ") .76mm (0.030") stainless steel banding.



IMPORTANT: You must use a high tension banding tool to install bands.



Step 5 - Connect wires to wiring terminals

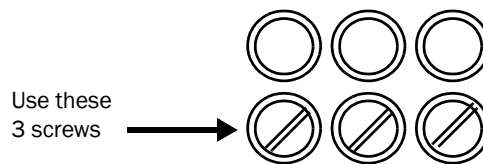
Pull Neutral (blue), Line (brown), and Protective Earth (green/yellow) wires into body assembly and connect to wiring terminals.

Strip wires, insert in terminal block, and tighten screws to 2.1 Nm (18.5 inch-lbs)

Solid wires are preferred but stranded wires with crimp-on PIN terminators are also OK.

 **IMPORTANT:**

Requires dedicated 16A, trip curve B, breaker with integral 30mA RCD. Install breaker with integrated RCCB in building panel. This Equipment has been evaluated as Overvoltage Category II—do not connect directly to power distribution network without additional surge protection (Overvoltage Category III per IEC 60664). See label located on power plate.



You have now finished installing the body assembly for the CT1502 ChargePoint® Networked Charging Station. For details on installing the head assembly, see Chapter 5, Installing the head assembly.

Coulomb Technologies, Inc.
 Model (CT1502) - For use with Model CT1502.
 Input: 230 VAC, 50 Hz, 16A - See installation manual.
 Warning: External RCCB Breaker Required.
 Input terminal recommended tightening torque: 2.1 Nm - Use copper conductors only.
 Input terminal wire size range: 4.1mm to 2.05mm solid or stranded.




230 V

N L



EARTH

Power Plate S/N:
SER. NO. LABEL




Installing a Wall Mount

Before you start

You will need:

- CT1503 ChargePoint® Networked Charging Station body assembly
- 20 mm (¾") coupling
- conduit
- 6 mm x 39 mm (¼" x 1 ½") lag screws (6), McMaster P/N 95526A125
- lag screw anchors (6), McMaster P/N 97039A029
- Torx Driver T15 - Tamper-Resistant
- #2 Phillips screwdriver
- #2 Slotted screwdriver
- drill and drill bits: one to drill 6 mm (¼") hole into aluminum and another to drill into masonry

Overview of steps

Installing the CT1503 ChargePoint® Networked Charging Station's body assembly involves a few simple steps:

1. Check box for correct contents (*see page 4-2*)
2. Attach bracket to wall (*see page 4-3*)
3. Drill holes in body assembly (*see page 4-5*)
4. Attach body assembly to wall bracket (*see page 4-6*)
5. Attach coupler and connect conduit (*see page 4-7*)
6. Connect wires to wiring terminals (*see page 4-8*)

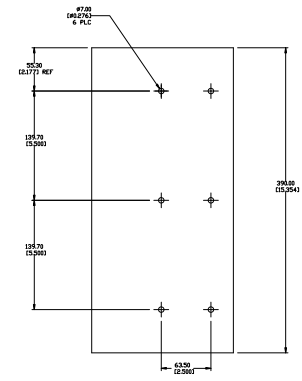
These steps are detailed in the remainder of this chapter. When you have completed these steps, you will be ready to install the head assembly as described in Chapter 5, Installing the head assembly.

Step 1 - Check box for correct contents

Wall Mount assembly

The CT1503 ChargePoint® Networked Charging Station's body assembly ships in a box containing:


- Main body
- Wall mount bracket
- Screws and washers (6)
- Template for drilling wall holes
- Allen key
- Installation instructions

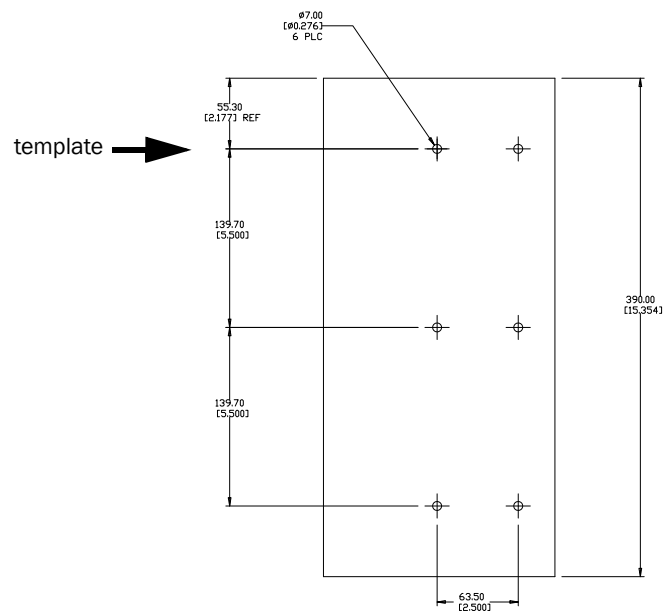
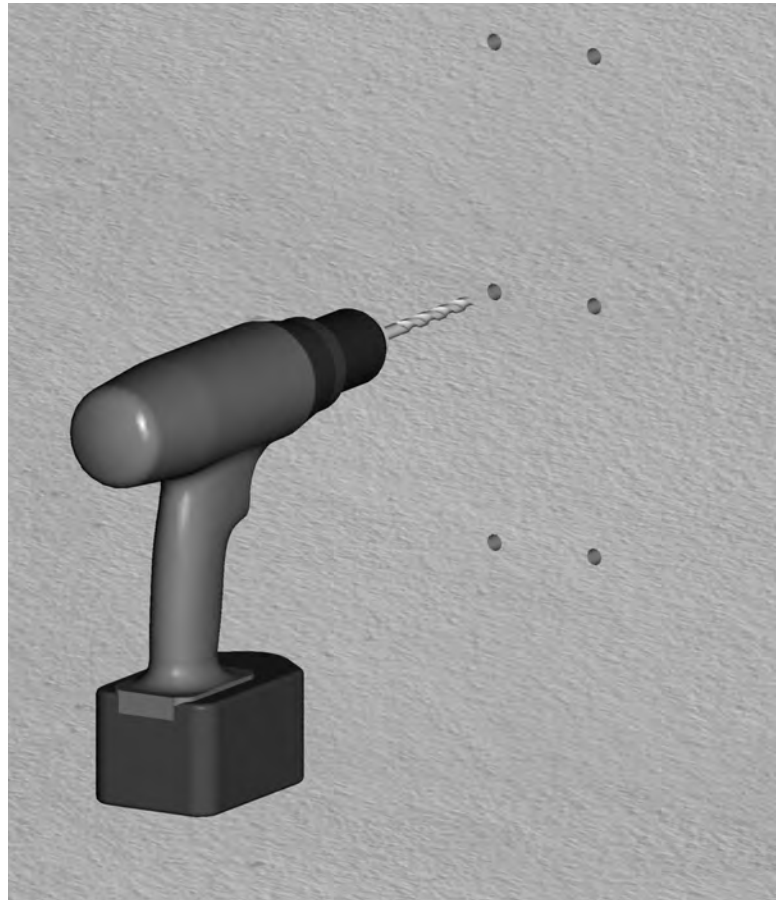


Step 2 - Attach bracket to wall

Drill 6 holes in the wall, as illustrated. Use the supplied template to ensure correct alignment.

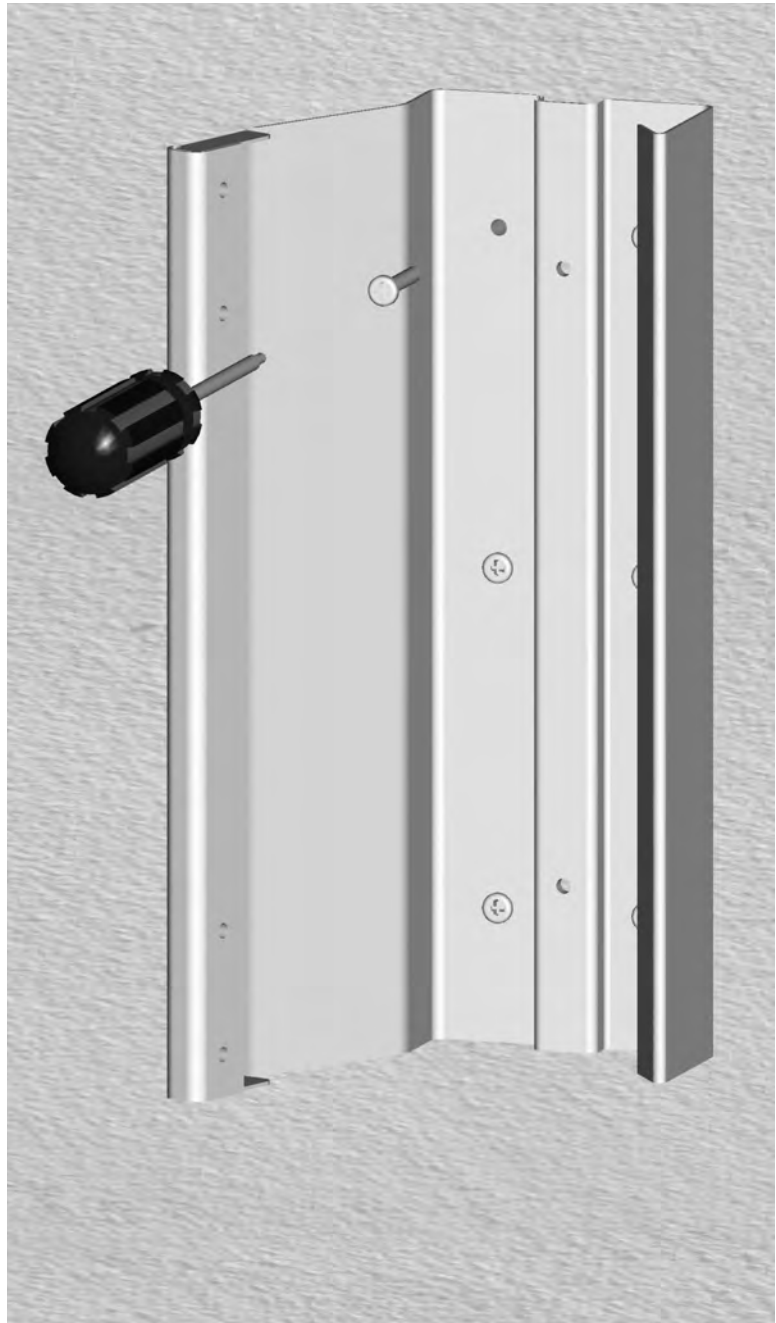
Note: If mounting to a hollow wall, mount the holes on the left to a stud using 6 mm (1/4") lag bolts, and use wall anchors for the holes on the right.

 **IMPORTANT:** The maximum height above the surface should be set to meet any local or national requirements for persons with disabilities.



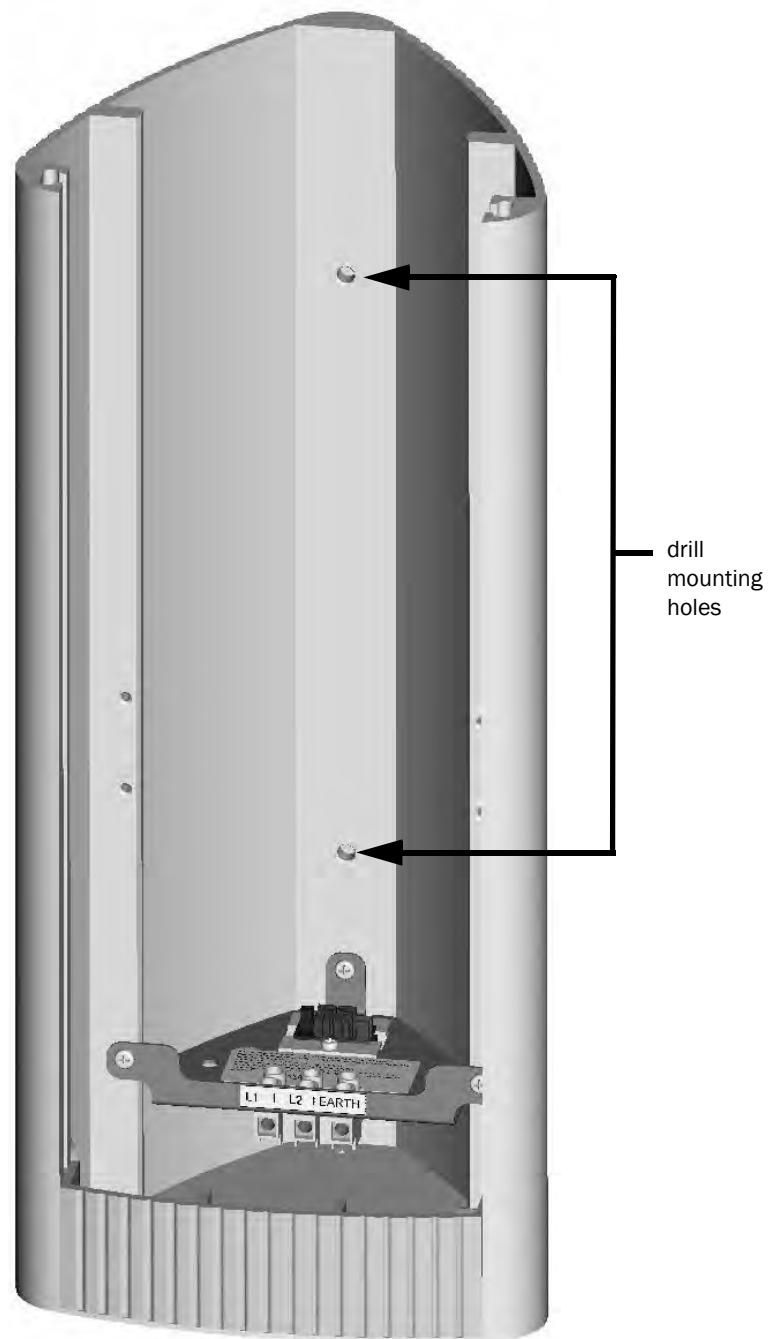
Step 2 cont'd

Using the 6 installer-supplied lag screws and anchors, fasten the wall bracket to the wall.



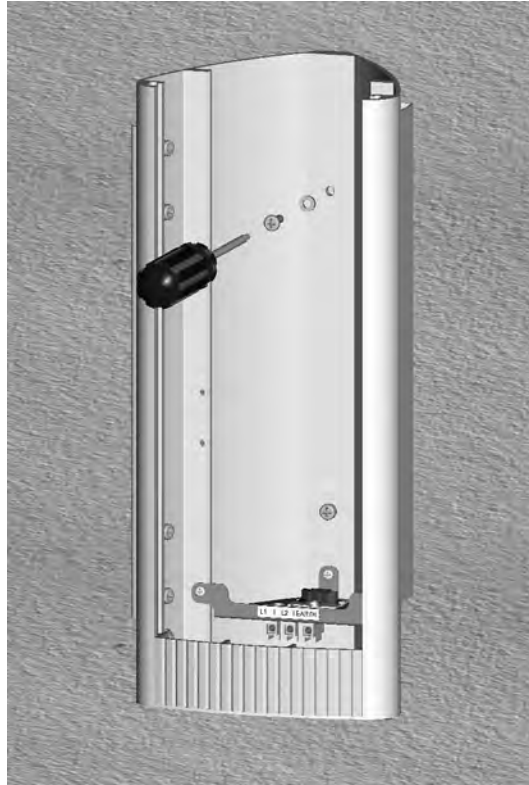
Step 3 - Drill holes in body assembly

Use a 6.5 mm ($\frac{1}{4}$ ") drill to drill out the 2 mounting holes in the back of the body assembly. These holes are partially pre-drilled.



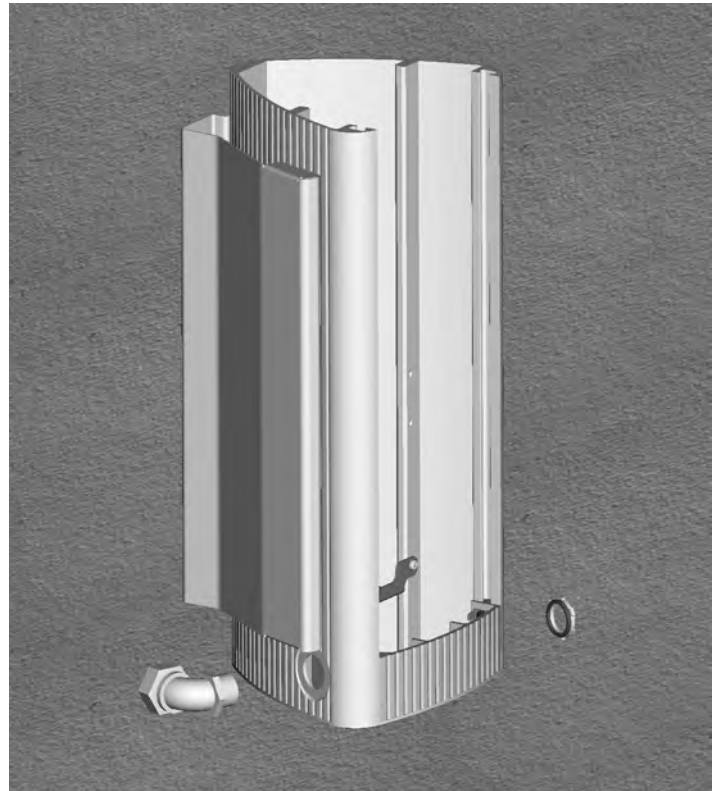
Step 4 - Attach body assembly to wall bracket

Attach the body assembly to the wall bracket using the 6 supplied screws and washers.



Step 5 - Attach coupler and connect conduit

Attach 20 mm ($\frac{3}{4}$ ") installer-supplied coupler to the body assembly, as shown, and connect the conduit.



Step 6 - Connect wires to wiring terminals

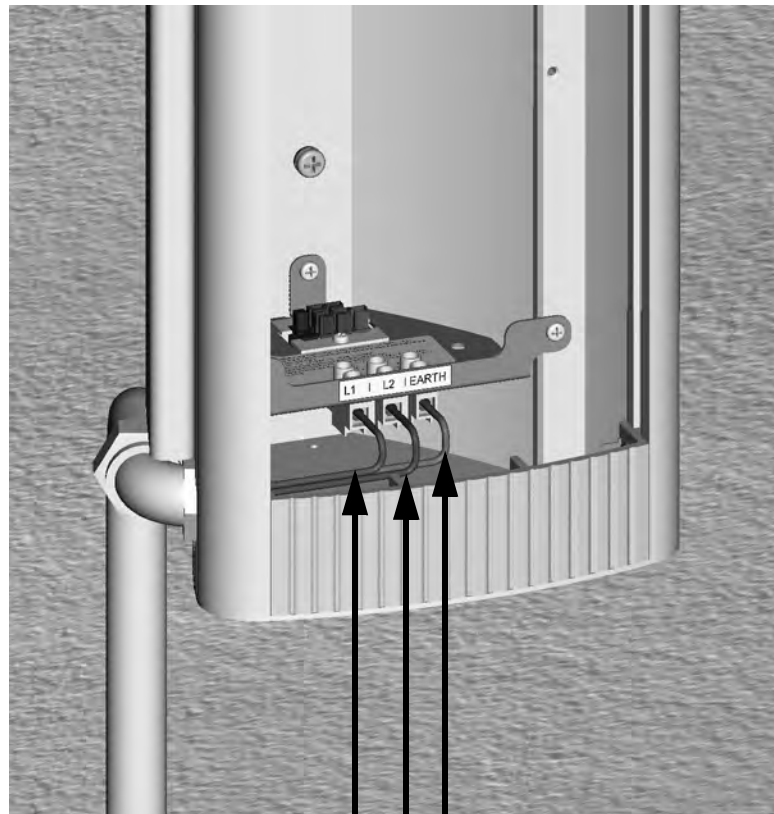
Pull Neutral (blue), Line (brown), and Protective Earth (green/yellow) wires into body assembly and connect to wiring terminals.

Strip wires, insert in terminal block, and tighten screws to 2.1 Nm (18.5 inch-lbs).

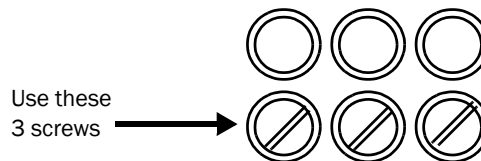
Solid wires are preferred but stranded wires with crimp-on PIN terminators are also OK.

 **IMPORTANT:**

Requires dedicated 16A, trip curve B, breaker with integral 30mA RCD. Install breaker with integrated RCCB in building panel. This Equipment has been evaluated as Overvoltage Category II—do not connect directly to power distribution network without additional surge protection (Overvoltage Category III per IEC 60664). See label located on power plate.



blue
brown
green/yellow



You have now finished installing the body assembly for the CT1503 ChargePoint® Networked Charging Station. For details on installing the head assembly, see Chapter 5, Installing the head assembly.

Coulomb Technologies, Inc.
 Model CT1503 - For use with Model CT1503.
 Input: 230 VAC, 50 Hz, 16A - See installation manual.
 Warning: External RCCB Breaker Required.
 Input terminal recommended tightening torque: 2.1 Nm - Use copper conductors only.
 Input terminal wire size range: 4.1mm to 2.05mm solid or stranded.




230 V

N — L



EARTH




Power Plate S/N:
SER. NO. LABEL

Installing the head assembly

5

Before you start

You will need:

- head assembly
- Torx Driver T15 - Tamper-Resistant

Overview of steps

Installing the ChargePoint® Networked Charging Station's head assembly involves a few simple steps:

1. Check box for correct contents (*see page 5-2*)
2. Slide head assembly into body (*see page 5-3*)
3. Secure head assembly (*see page 5-3*)

Step 1 - Check box for correct contents

Head assembly

The ChargePoint® Networked Charging Station's head assembly ships in a box containing:

- Head assembly
- Security screws (4)
- Rubber plugs (4)
- Spare label (keep this label for future reference—it contains important MAC address and serial number information that is needed for system provisioning)



Step 2 - Slide head assembly into body

Slide the head assembly into body far enough to connect “pigtail” connector.

Connect pigtail connector. The head assembly will power-up.

Firmly slide head module all the way into body.

Open door and check alignment of security screw holes.

Press down on head assembly to seat gaskets, if necessary.

TIP: The door remains unlocked for 30-60 seconds after you plug in the pigtail connector. By holding it open, you can proceed with the next step without having to open it with a smart card.



Step 3 - Secure head assembly


If necessary, open the door using the smart card.

Using a Torx driver, secure the head assembly with the 4 supplied tamper-resistant security screws.

 **IMPORTANT:** Do NOT overtighten. Snug fit only.



Insert the 4 supplied rubber plugs and push firmly into place using the Allen key until they are flush with the surrounding surface.

 **IMPORTANT:** It is *critical* that all 4 plugs are flush with the surface. If they protrude even slightly, the door will not close properly.



You have now finished installing the ChargePoint® Networked Charging Station.



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