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ChargePoint CP6000 Series

Networked Charging Station

Installation Guide

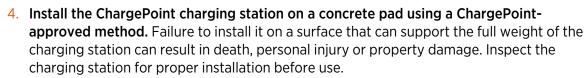


IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING:

- 1. Read and follow all warnings and instructions before servicing, installing or operating the ChargePoint® charging station. Install and operate it only as instructed. Failure to do so may lead to death, injury or property damage and will void the Limited Warranty.
- 2. Only use licensed professionals to install your ChargePoint charging station and adhere to all national and local building codes and standards. Before installing the ChargePoint charging station, consult with a licensed contractor, such as a licensed electrician, and use a trained installation expert to ensure compliance with local building and electrical codes and standards, climate conditions, safety standards, and all applicable codes and ordinances. Inspect the charging station for proper installation before use.
- 3. Always ground the ChargePoint charging station. Failure to ground the charging station can lead to risk of electrocution or fire. The charging station must be connected to an earthed, metal, permanent wiring system or an equipment earth conductor shall be run with circuit conductors and connected to the equipment earth terminal or lead on the Electric Vehicle Supply Equipment (EVSE). Connections to the EVSE must comply with all applicable codes and ordinances.



- 5. This charging station is not suitable for use in Class 1 hazardous locations, such as near flammable, explosive or combustible vapours or gases.
- 6. Supervise children near this device.
- 7. Do not put fingers into the electric vehicle connector.
- Do not use this product if any cable is frayed, has broken insulation or shows any other signs of damage.
- Do not use this product if the enclosure or the electric vehicle connector is broken, cracked, open or shows any other signs of damage.
- 10. Use only copper conductor wire rated for 90°C (194°F).



IMPORTANT: Under no circumstances will compliance with the information in a ChargePoint guide such as this one relieve the user of the responsibility to comply with all applicable codes and safety standards. This document describes approved procedures. If it is not possible to perform the procedures as indicated, contact ChargePoint. **ChargePoint is not responsible for any damages that may result from custom installations or procedures not described in this document or that fail to adhere to ChargePoint recommendations.**



Product Disposal

To comply with Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE), devices marked with this symbol may not be disposed of as part of unsorted domestic waste inside the European Union. Enquire with local authorities regarding proper disposal. Product materials are recyclable as marked.



Document Accuracy

The specifications and other information in this document were verified to be accurate and complete at the time of its publication. However, due to ongoing product improvement, this information is subject to change at any time without prior notice. For the latest information, see our documentation online at chargepoint.com/guides.

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Symbols

This guide and product use the following symbols:



DANGER: Risk of electric shock



WARNING: Risk of personal harm or death



CAUTION: Risk of equipment or property damage



IMPORTANT: Crucial step for installation success



Read the manual for instructions



Ground/protective earth

Illustrations Used in This Document

The illustrations used in this document are for demonstration purposes only and may not be an exact representation of the product. However, unless otherwise specified, the underlying instructions are accurate for the product.

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Introduction 1

The ChargePoint CP6000 is an all-purpose charging station for property owners, businesses and councils. The CP6000 charging station can be mounted on a pedestal or a wall.

CP6000 charging stations are alternating current (AC) supply equipment. Once they are installed and activated, they are connected to the AC network.

Note: CP6000 charging stations do not have ventilation capabilities.

IMPORTANT: You must be a licensed electrician and complete online training to become a ChargePoint certified installer. If you do not complete this training, you cannot access the ChargePoint network to complete the installation.



Find online training at: chargepoint.com/installers

If the charging station is not installed by a ChargePoint-certified installer, using a ChargePoint-approved method, it is not covered under warranty and ChargePoint is not responsible for any malfunctions.

CP6000 charging stations can be installed with a single cable feeding both ports (circuit share) or with dual cables, one for each port.

Note: CP6000 charging stations are available in several configurations. The images in this guide might not match your station exactly; however, the installation steps are the same unless otherwise noted.

Accessing Complete Documentation

Access ChargePoint documents at chargepoint.com/guides.

Document	Content	Primary Audiences
Datasheet	Full station specifications	Site designer, installer and station owner
Site Design Guide	Civil, mechanical and electrical guidelines to scope and construct the site	Site designer or engineer of record
Construction Signoff Form	Checklists used by contractors to ensure the site is correctly completed and ready for product installation	Site construction contractor
Installation Guide	Anchoring, wiring and powering on	Installer
Operation and Maintenance Guide	Operation and preventive maintenance information	Station owner, facility manager and technician
Service Guide	Component replacement procedures, including optional components	Service technician
Declaration of Conformity	Statement of conformity with directives	Purchasers and public

ChargePoint Documentation

Power Management

Using ChargePoint Power Management technology, sites can install more stations than would otherwise be supported by the available electrical service. A maximum aggregate load is defined for a group of charging stations. ChargePoint cloud-based services manage the individual power output of each station (or port) to ensure that the maximum load is never exceeded.

A CP6000 charging station provides up to 32 A of output current to each charging port.

Site Requirements

Ensure that the appropriate wiring, circuit protection, and metering are in place at the installation location by reviewing the *Site Design Guide*, the *Datasheet*, and the wiring diagrams and grounding requirements in the chapter titled *Connect Wiring*.



IMPORTANT: Ensure the installation complies with all applicable codes and ordinances.

Bring these tools and materials

To install CP6000 charging stations, you need the following tools:



T20 and T25 torx-end wrenches

L wrench included, combined with 4 mm hex



Wire stripper



Mini ratchet spanner



Torx screwdriver (T25)



Adjustable torque spanner nut size 4 mm and 24 mm



#2 Pozidriv torque screwdriver (capable of controlling torque)



4 mm ball-end hex key *L-wrench included, combined with T25 Torx*



#3 Philips screwdriver



Multimeter (solenoid type voltmeter preferred)



Flat-blade screwdriver (capable of controlling torque)



Diagonal wire cutter



Level



Drill and tap for appropriate wall attachment hardware (wall-mounted stations only)



10 mm wrench



CMK ball tool (included)



Protective cut-proof gloves

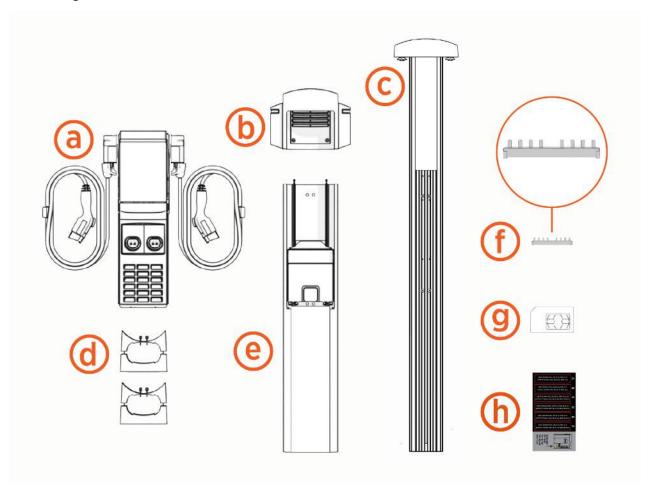
Wall mounting hardware requirements vary based on surfaces:

- Masonry anchors rated for at least 318 kg (700 lb) of pull-out force.
- Attachment hardware appropriate for the mounting surface. For example, use $10 \times 75 \text{ mm} (3/8 \times 3 \text{ in})$ lag bolts if mounting on a wooden wall.

Inspect the Boxes for Contents

The CP6000 is delivered in multiple boxes. Check to make sure that you have all of the following parts before beginning work.

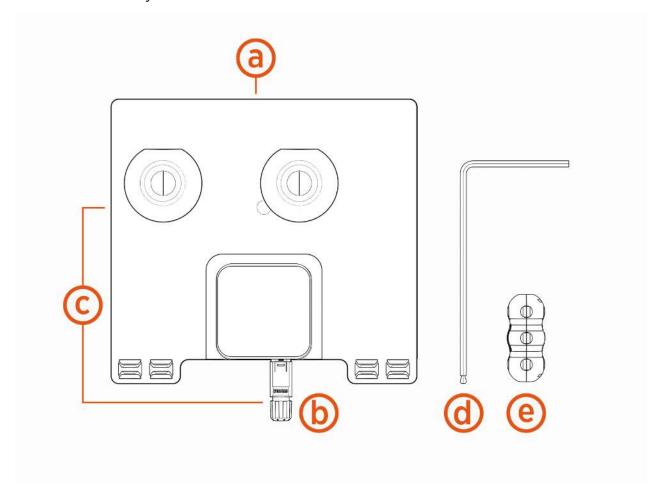
- a. Head unit assembly
- b. Top cap
- c. Cable Management Kit (CMK) only stations with cables attached
- d. Wall mount bracket kit (wall-mounted stations)
- e. Pedestal or wall mount enclosure
- f. Circuit share jumper kit
- g. SIM Card
- h. Rating label sheet



The CP6000 ships with an Ethernet kit (purchased separately). Check to make sure you have the following parts in the kit:

- a. Ethernet Module
- b. Accessory (the Ethernet connector)

- c. Ethernet Adapter Assembly
- d. L-wrench
- e. Ferrite accessory



IMPORTANT:

All CP6000 charging stations include L1 - L2 circuit share power management jumpers. If a single three-phase supply circuit is feeding a dual port station, install the L1 - L2 jumper. This offers local phase rotation between the two charging ports to distribute and balance charging loads across the supply phases.

If a single supply circuit is feeding a dual-port station, you MUST install power management jumpers for both ports to operate correctly.

For assistance, go to chargepoint.com/support and find your region's technical support number. Order power management jumpers from Support if required.

CP6000 charging stations comes with two options:



- Residual Current Circuit Breaker (RCCB) per charging port or
- Residual Circuit Breaker with Overload Protection (RCBO) per charging port

Talk to you local ChargePoint contact and agree on the best solution for the installation.

When choosing RCBO, a single input cable can be supplied to the charging station because of the share power management jumpers. The upstream cable will also be protected according to the national wiring regulations.

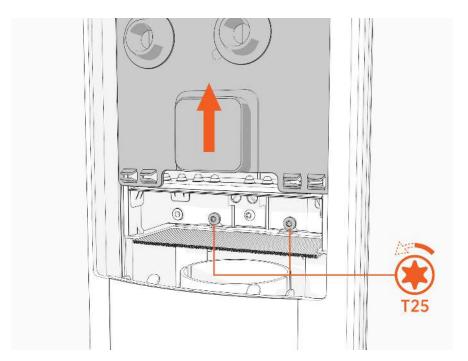
When choosing RCCB in certain countries, local wiring regulations will require that these stations shall be connected with two input power cables and an additional upstream Miniature Circuit Breaker (MCB). Make sure to follow the local regulations considering the maximum current delivered per charging port.

If an upstream RCD will be used, ensure that the RCD fulfils the selectivity criteria. Either 30m (s) with selective tripping characteristic or 100mA are required, so both RCDs (RCCB in station and RCD in upstream circuit board) will be connected in series.

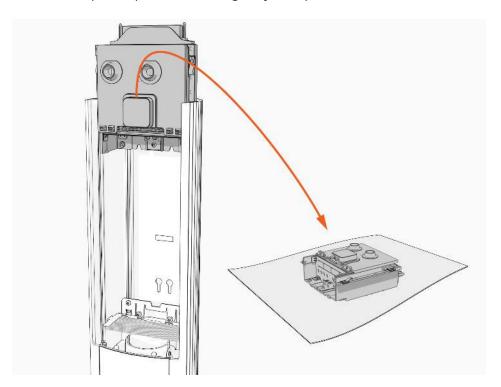
Install a Pedestal Mount 2

Prepare the Pedestal for Mounting

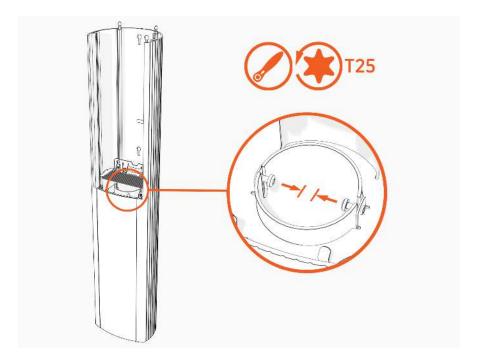
1. Lift the power plate cover. Loosen two screws but do not remove them.



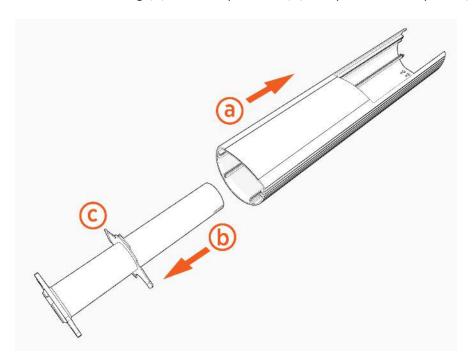
2. Remove the power plate and set it gently on a padded surface.



3. Use the L-wrench or a mini-ratchet wrench to loosen, but not remove, two screws.



4. Remove the housing (a) from the pedestal (b). Keep the rubber spacer (c) in place.

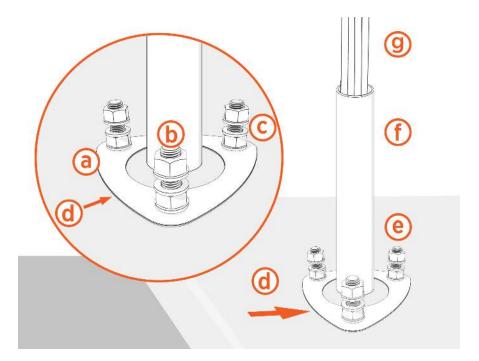


Mount the Pedestal

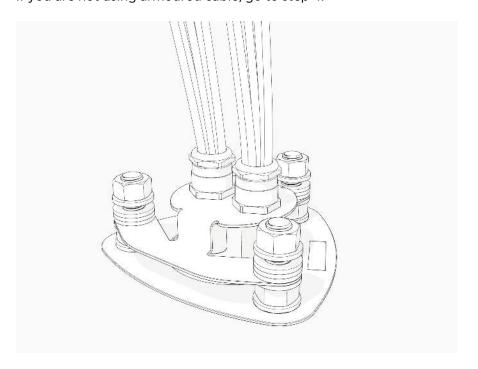
1. Confirm that the location has been prepared according to the Site Design Guide and the Concrete Mount Template by visiting chargepoint.com/guides.

2. You should see the following:

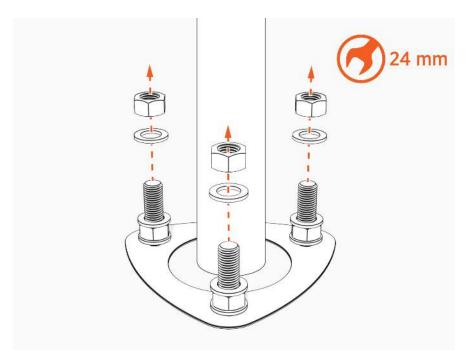
- a. Concrete mounting template
- b. Three bolts set into concrete
- c. Two nuts and three washers on each bolt
- d. Template front
- e. Bolts extending 60 mm (2 1/3 in) to 100 mm (4 in)
- f. Conduit stub-up measuring 152 mm (6 in) to 590 mm (2 ft)
- g. Approximately 1.5 m (5 ft) of service wiring
- h. CP4000 adapter cover (only if replacing CP4000)



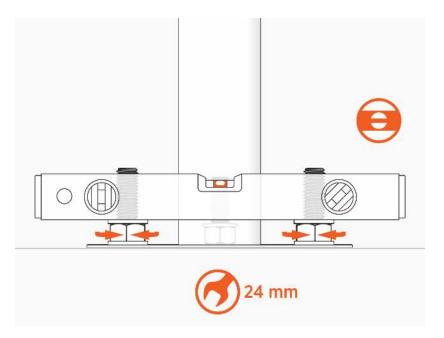
UK only: If you are installing the station using armoured cable, follow the cable gland manufacturer instructions and best practices to terminate the SWA cable to the cable gland.
 If you are not using armoured cable, go to step 4.



4. Remove top nuts and washers.



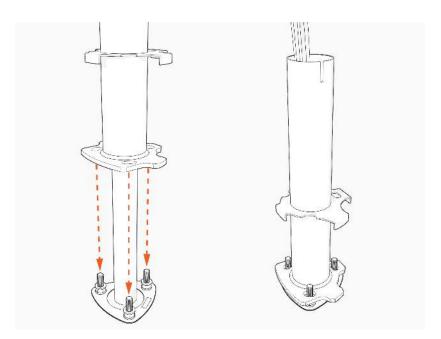
5. Adjust the lower nuts as necessary to be level.



6. Place the pedestal over the conduit or armored cable and route the wiring through the pedestal.



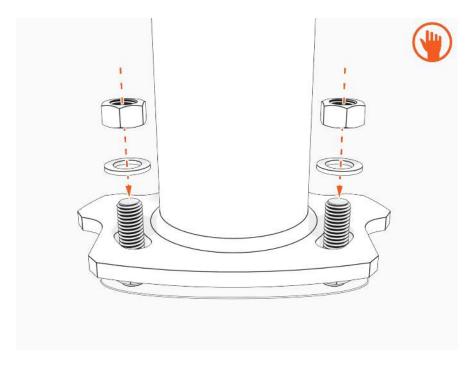
IMPORTANT: Avoid damaging the conduit or armored cable.





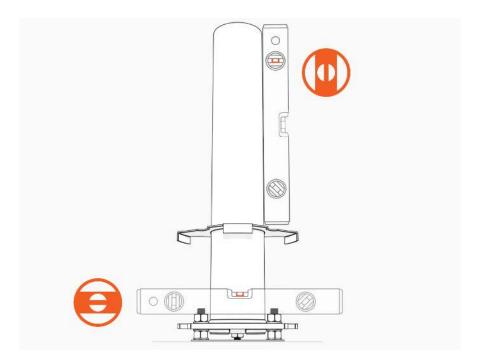
IMPORTANT: Ensure the pedestal is facing the parking space.

7. Fasten the pedestal to the bolts and tighten by hand.

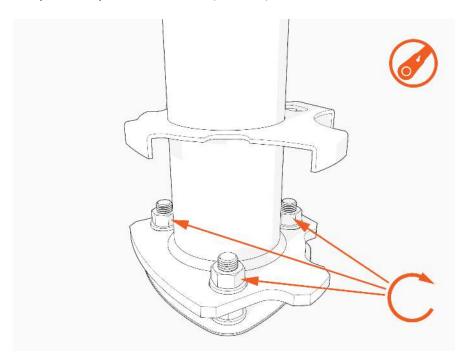


8. Ensure that the pedestal is level and plumb.

Verify accuracy after each adjustment by positioning the level at various locations on the pedestal, above each bolt.

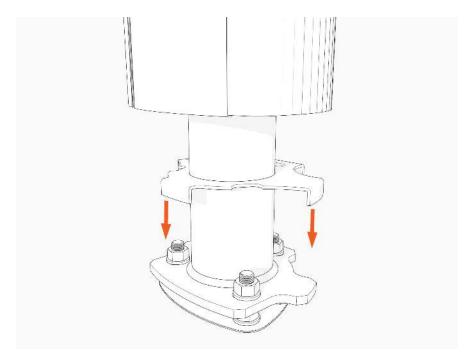


9. Torque the top nuts to 120 Nm (88 ft-lb).



Install the Housing

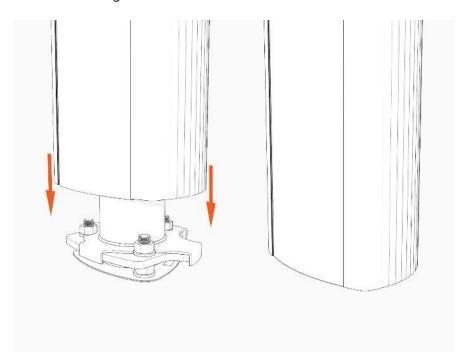
1. Align and slide the rubber spacer down.



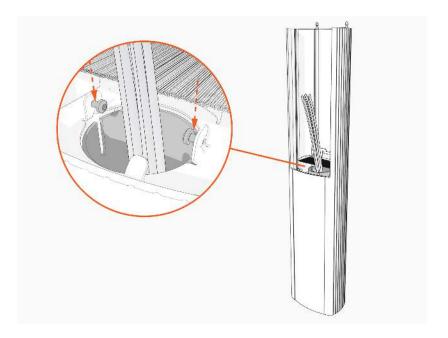
2. Optional: If replacing a CP4000, tuck the edges of the rubber spacer (a) below the black plastic cover.



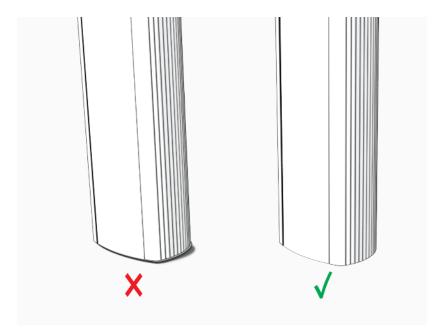
3. Slide the housing down.



4. Ensure screws are aligned.



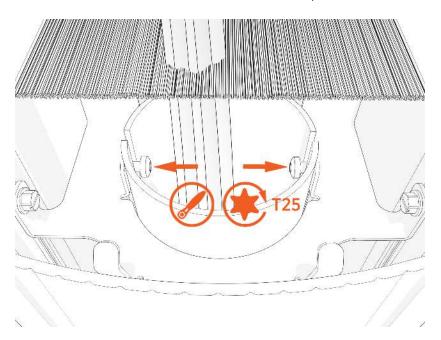
5. Firmly align the pedestal to the bottom surface.





IMPORTANT: Do not seal the pedestal to the concrete pad with caulking, silicone, or other sealing material. The pedestal is designed to shed moisture between its bottom surface and the concrete pad. Sealing the pedestal to the concrete can trap water inside the housing.

6. Use the L-wrench or mini-rachet wrench to torque screws to **4.6 Nm (40 in-lb)**.



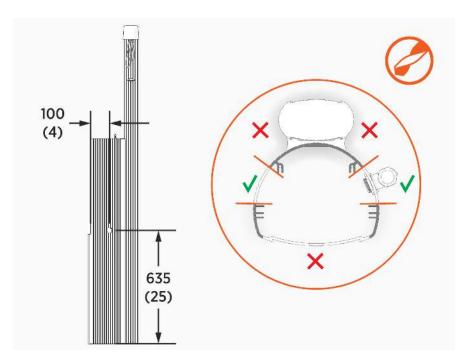
Alternative Installation: Side-Mounted Conduit

If the conduit cannot come from below the pedestal (existing concrete in a multi-storey car park, for example), mount the pedestal and ensure that it is level and tight, then follow these steps.

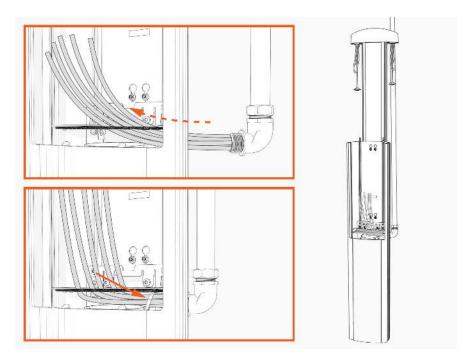
You need a hole saw or a knockout punch.

- 1. Mark the conduit entry point on either side of the housing. The centre of the opening must be 635 mm (25 in) from the bottom and 100 mm (4 in) from the front, in a location that does not intersect any internal ribs.
- 2. Drill or punch a hole for a 32 mm (1.25 in) trade-size knockout.

Note: Images are not to scale. Measurements appear in metric units (mm) followed by imperial equivalents (inches).



3. Pull the wire through the conduit, protecting the wires from the sharp edges of the internal structural components.



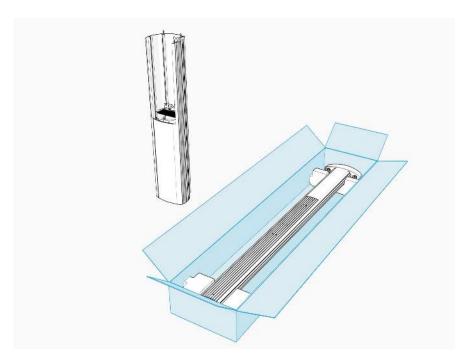
4. Seal the conduit entry into the pedestal housing using an approved sealing method that is compliant with applicable codes.



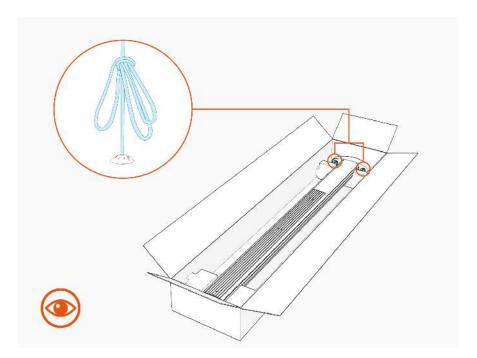
IMPORTANT: Ensure the installation complies with all applicable codes and ordinances.

Install the CMK

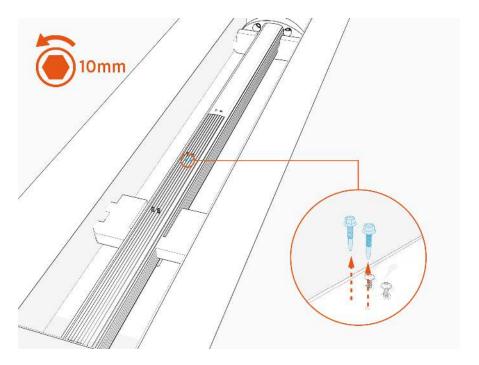
1. Unwrap and position the Cable Management Kit (CMK) packaging near the base of the pedestal.



2. If you do not see a knot tied near the top of the cable clamp rope, pull the rope out about 600 mm (2 ft) and tie a slip knot near the top of the CMK.

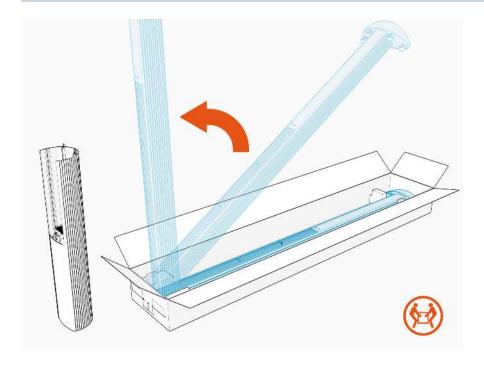


3. Remove and discard the set of shipping screws near the middle of the CMK. Leave the set of screws closest to the top of the CMK in place.

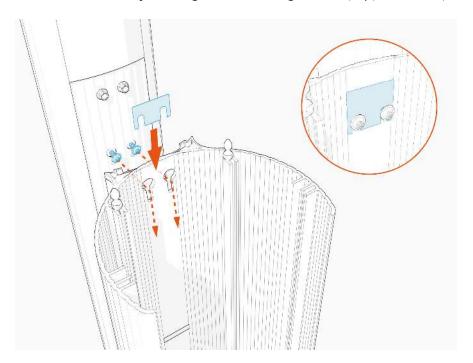


4. Place the CMK behind the pedestal housing and stand the CMK upright slowly.

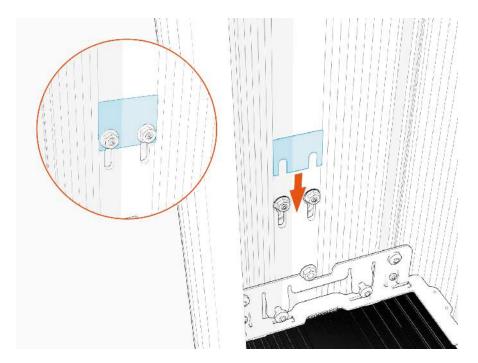
IMPORTANT: Weights inside the CMK will slide while the CMK is raised up. Stand the CMK up slowly so the weights slide gently.



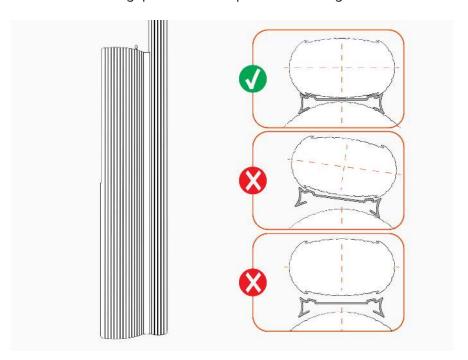
5. Hold the CMK steady and align the mounting screws (top) and nuts (bottom).



6. Insert washers on both the top and bottom screws and nuts.



7. Ensure there is no gap between the pedestal housing and the CMK.

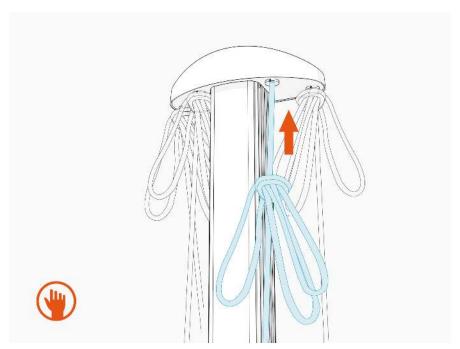


8. Use a T25 Torx screwdriver to torque the top screws to **5.7 Nm (50 in-lb)**. Use a 10 mm wrench to tighten the nuts near the bottom to **5.7 Nm (50 in-lb)**.

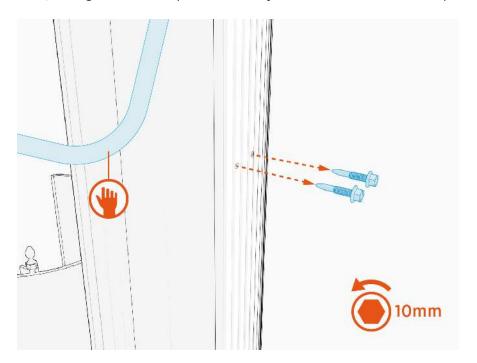


9. Hold the ends of each clamp cable and remove the remaining shipping screws from the front, letting the ball clamp retract slowly until the knot meets the top of the CMK.

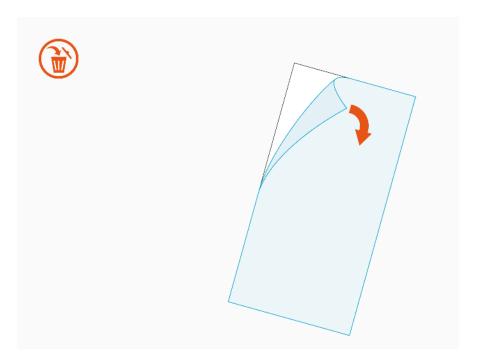




10. Hold the ends of each clamp cable and remove the remaining shipping screws from the back of the CMK, letting the ball clamp retract slowly until the knot meets the top of the CMK.

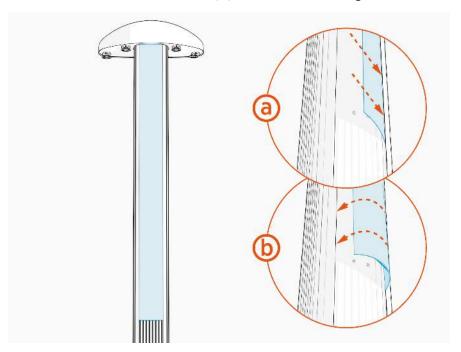


11. Remove the protective film from the vinyl cover.



12. Insert one side of the cover (a) into the groove on one side of the CMK.

Bend the other side of the cover (b) and insert into the groove on the other side of the CMK.



Go to Connect Wiring.

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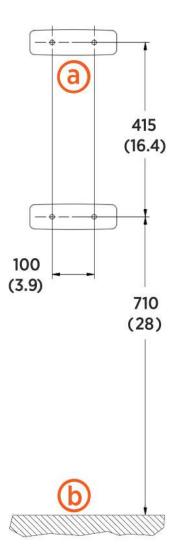
Install a Wall Mount 3

Mount the Brackets

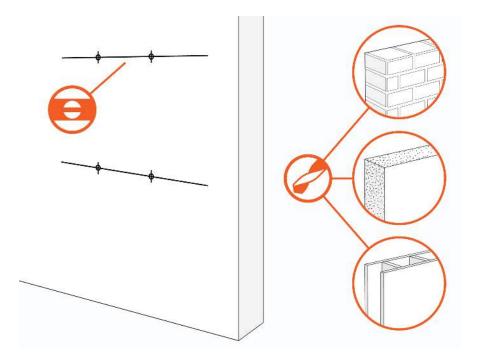
1. Mark holes and ensure that they are level.

Note: Images are not to scale. Measurements appear in metric units (mm) followed by imperial equivalents (inches).

- a. Hole locations
- b. Ground level



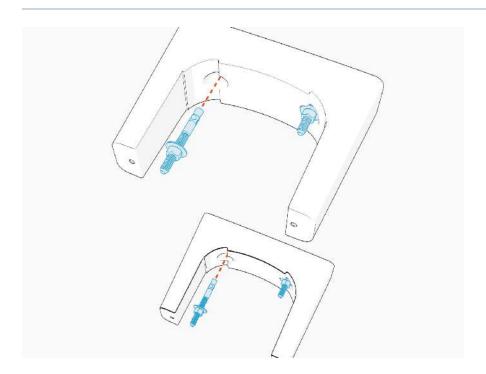
- 2. Use a drill and bit appropriate for the type of wall to drill four holes.
- 3. For masonry or concrete walls, insert masonry anchors (not included) rated for at least 318 kg (700 lb) of pull-out force.



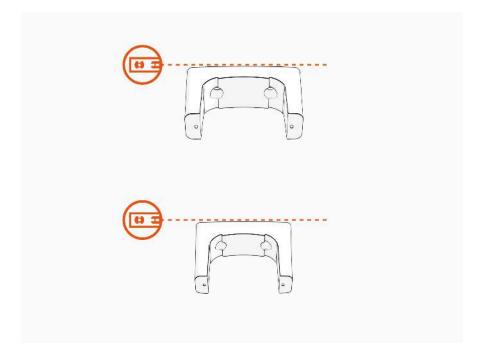
Hollow wall	Bridge two studs with a channel strut
Wood studs	 10 mm (3/8 in) lag bolts; at least 64 mm (2-1/2 in) long 10 mm (3/8 in) washers, Appropriate channel strut nuts
Masonry wall	• 10 mm (3/8 in) expanding masonry fasteners
Wood wall	• 10 mm (3/8 in) x 75 mm (3 in) lag bolts

4. Mount the metal brackets.

IMPORTANT: Use the metal brackets that were shipped with the CMK. Do not use the plastic brackets.

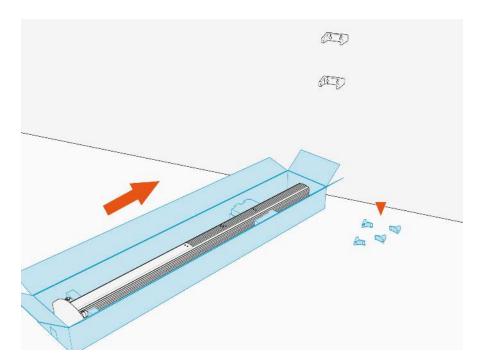


5. Ensure brackets are level.

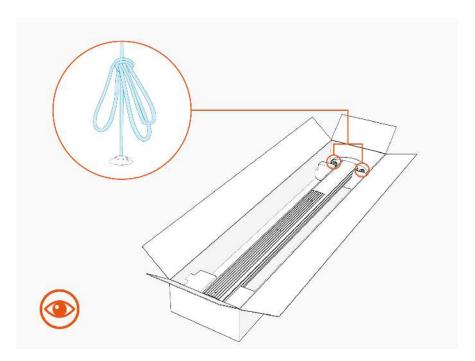


Mount the CMK

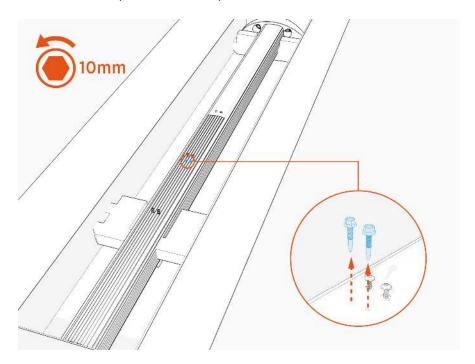
1. Position the Cable Management Kit (CMK) packaging near the wall. Place the front brackets within reach.



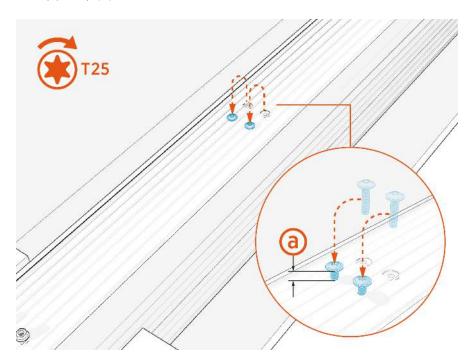
2. If you do not see a knot tied near the top of the cable clamp rope, pull the rope out about 600 mm (2 ft) and tie a slip knot near the top of the CMK.



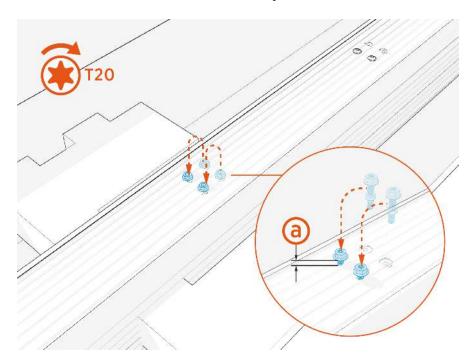
3. Remove and discard the set of shipping screws near the middle of the CMK. Leave the set of screws closest to the top of the CMK in place.



4. Use a T25 Torx screwdriver to remove the set of threaded studs just above the ones you removed. Insert the threaded studs most of the way into the next set of holes. Make sure to leave a gap of 16 mm (5/8 in) (a) between the nut and the head of the threaded stud.



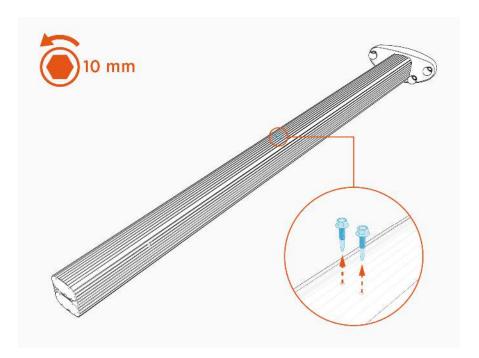
5. Use a T20 Torx screwdriver to remove the lower set of threaded studs, along with the attached nuts. Insert the studs with nuts most of the way into the next set of holes.



6. Rotate the CMK 180 degrees until the rear side faces up.

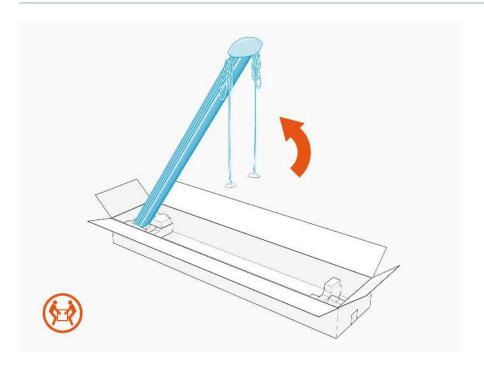


7. Remove and discard two shipping screws on the back of the CMK.

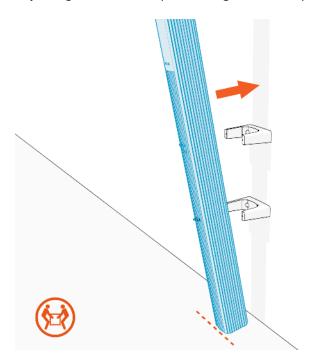


8. Stand the CMK upright slowly.

IMPORTANT: Weights inside the CMK will slide while the CMK is raised up. Stand the CMK up slowly so the weights slide gently.



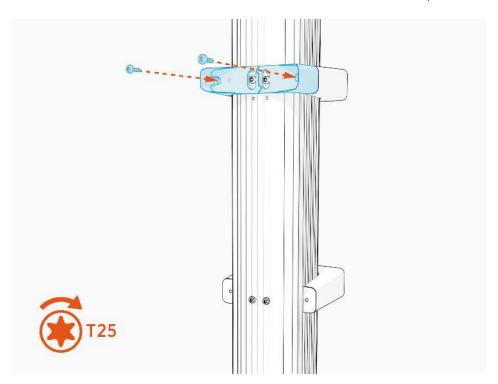
9. Tilt the CMK up against the rear brackets, rest the bottom on the ground and hold steady while adjusting the CMK into position against the top front bracket.



10. Align the top pair of metal wall mount brackets.

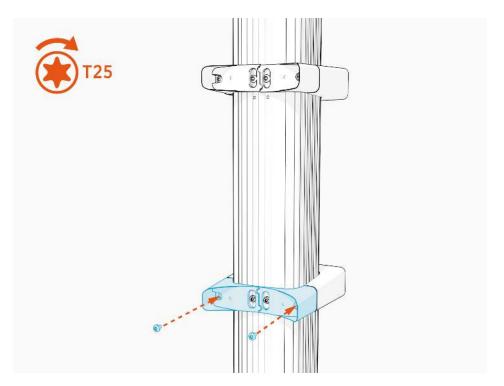
IMPORTANT: Use the metal brackets that were shipped with the CMK. Do not use the plastic brackets.

Insert the outer bracket screws. Use a T25 Torx screwdriver to torque screws to 7 Nm (5 ft-lb).



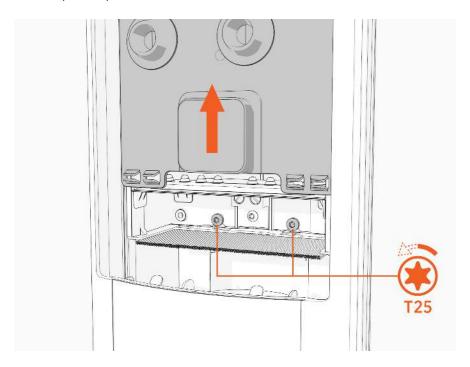
11. Align the lower wall mount brackets.

Insert the outer bracket screws. Use a T25 Torx screwdriver to torque screws to **7 Nm (5 ft-lb)**.

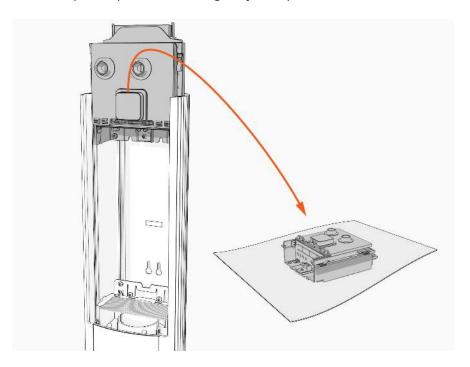


Prepare the Housing

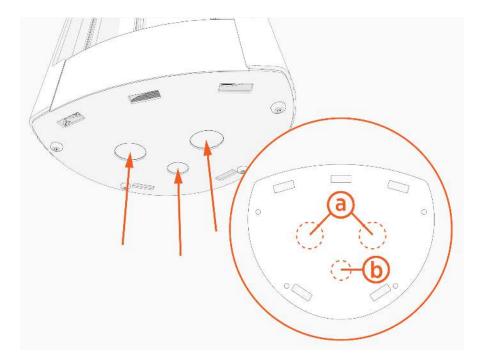
1. Lift the power plate cover. Loosen two screws but do not remove them.



2. Move the power plate and set it gently on a padded surface.

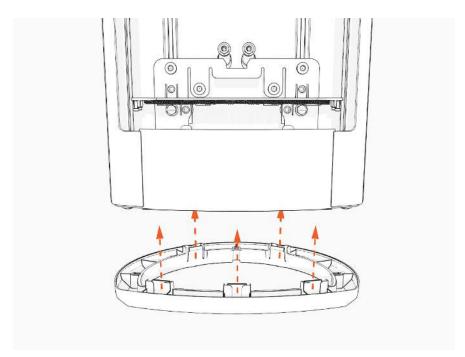


- 3. Drill or use the knockouts in the housing to create holes for the conduit. If drilling holes, drill near the centre of the lower housing plate.
 - a. 33 mm (1.3 in) knockout
 - b. 24 mm (0.95 in) knockout (optional Ethernet wiring)



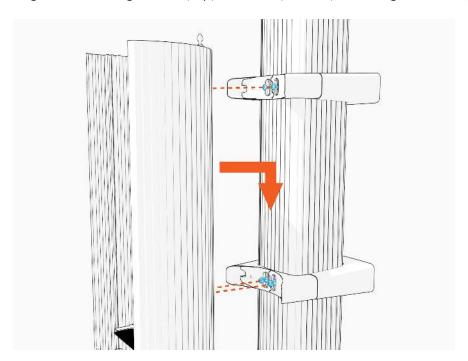
Maximum sizes for a larger conduit:

- Two 40 mm (1.5 in) conduits or two 5 x 16 mm² armoured cables (power in), 0.75 inch conduit (optional Ethernet)
- One 68 mm (2.5 in) conduit or one 5 x 25 mm² armoured cable (power in), 0.75 inch conduit (optional Ethernet)
- 4. Snap the lower bracket onto the station.



Install the Housing

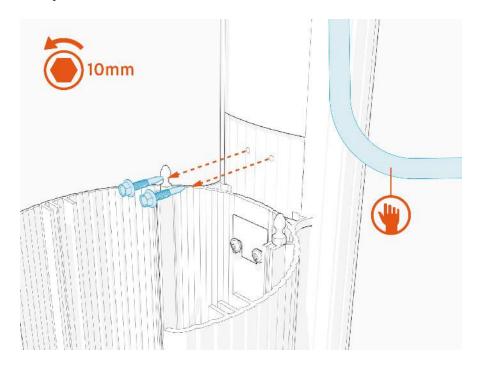
1. Align the mounting screws (top) and nuts (bottom) and hang the housing.

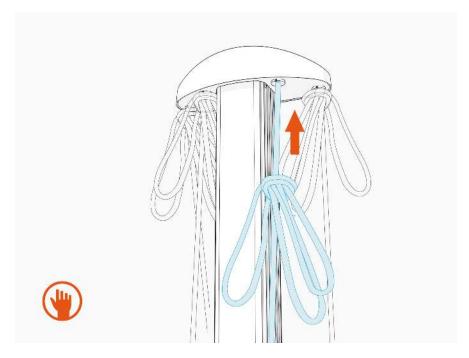


2. Use the L-wrench or a mini-ratchet wrench to torque two flange screws (upper) and two preinstalled nuts (lower) to **5.7 Nm (50 in-lb)**.

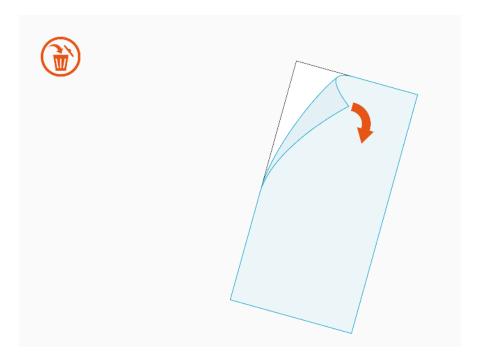


3. Hold the ends of each clamp cable and remove the shipping screws, letting the ball clamp retract slowly.



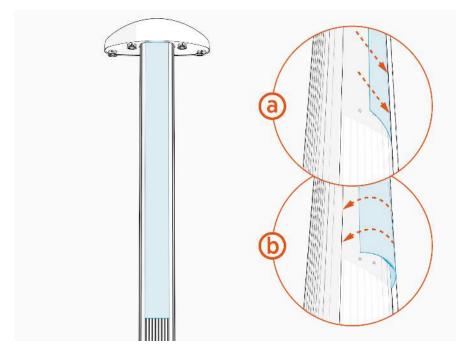


4. Remove the protective film from the vinyl cover.



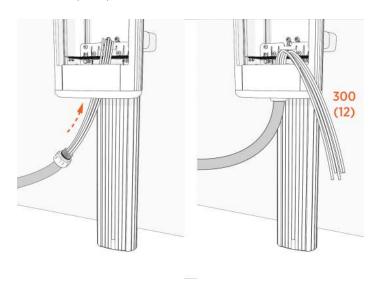
5. Insert one side of the cover (a) into the groove on one side of the CMK.

Bend the other side of the cover (b) and insert into the groove on the other side of the CMK.



Install the Conduit

Feed conduit or armored cable through lower station bracket and into station.
 The length of wire available from the end of the conduit or the wall mount base must be at least 300 mm (12 in).



2. Select the appropriate gland or hardware and sealant, if applicable, to attach the conduit to the station.





IMPORTANT: Install and seal the conduit following local codes.

Go to Connect Wiring

-chargepoin+

Connect Wiring 4

CAUTION: Use copper conductors only.

The CP6000 is fitted with up to 30mA Type A RCD and 6 mA DC leakage protection per port.

If local codes require the use of supplementary residual current protection for fault protection upstream, ChargePoint recommends using an appropriately sized Type A, Type F or Type B RCD with 100 mA tripping current to avoid false trips.



Use breakers best suited for the maximum current draw set per station.

Use new circuit breakers only.

Ensure that all power and ground connections (especially those at the breaker) are clean, tight and torqued to specifications. Remove all oxide from all conductors and terminals before connecting the wiring.

The CP6000 includes overcurrent protection which disconnects the outlet if the current is more than or equal to 1.25 times the maximum current set.

Note: The maximum wiring size permitted for single input is 25 mm². Check local regulations.

CP6000 configuration includes either RCCBs or RCBOs. Configurations with RCBOs include short-circuit protection per charging port, with a nominal current of 40 A and Curve C type.

For the upstream protection breaker, ChargePoint recommends using Curve C Miniature Circuit Breakers (MCB), and must be rated as follows:

- 20 A for a 16 A single- or three-phase charging station
- 25 A for a 20 A single- or three-phase charging station
- 32 A for a 25 A single- or three-phase charging station
- 40 A for a 32 A single- or three-phase charging station
- 63 A or 80 A for a 63 A three-phase charging station

Note: The MCB must open all live conductors (including the Neutral).

Phases	Maximum current per output (A)	Number of outputs	Maximum current input (A)	Power input (kW)	Breakers required	Minimum panel size for single input (A)	Minimum panel size for dual input (A)
Single	16	1	16	3.7	1	20	n/a
Single	20	1	20	4.6	1	25	n/a
Single	25	1	25	5.8	1	32	n/a
Single	32	1	32	7.4	1	40	n/a
Single	16	2	32	7.4	1 or 2	40	20
Single	20	2	40	9.2	1 or 2	50	25
Single	25	2	50	11.5	1 or 2	63	32
Single	32	2	63	14.5	1 or 2	63	40
Three	16	1	16	11.0	1	20	n/a
Three	20	1	20	13.8	1	25	n/a
Three	25	1	25	17.3	1	32	n/a
Three	32	1	32	22.1	1	40	n/a
Three	16	2	32	22.1	1 or 2	40	20
Three	20	2	40	27.6	1 or 2	50	25
Three	25	2	50	34.5	1 or 2	63	32
Three	32	2	63	44.2	1 or 2	63	40
Three	32	2	80	44.2	1 or 2	80	40

Circuit Sharing Wiring Specifications

Configure Cable (Circuit) Sharing

Cable sharing refers to a single circuit supplying power to two ports on the station.



IMPORTANT: If the station is not being configured for cable (circuit) sharing, go to <u>Install the</u> Power Plate.

CP6000 charging stations can be installed with a single cable feeding both ports (circuit share) or with dual cables, one for each port.



CAUTION: Due to overcurrent requirements, a single cable feeding two ports does not comply with local regulations in all markets. Check local regulations and rules at the installation location to ensure compliance and safe operation.

IMPORTANT:

All CP6000 charging stations include L1 – L2 circuit share power management jumpers. If a single three-phase supply circuit is feeding a dual port station, install the L1 – L2 jumper. This offers local phase rotation between the two charging ports to distribute and balance charging loads across the supply phases.

If a single supply circuit is feeding a dual-port station, you MUST install power management jumpers for both ports to operate correctly.

For assistance, go to chargepoint.com/support and find your region's technical support number. Order power management jumpers from Support if required.

CP6000 charging stations comes with two options:



- Residual Current Circuit Breaker (RCCB) per charging port or
- Residual Circuit Breaker with Overload Protection (RCBO) per charging port

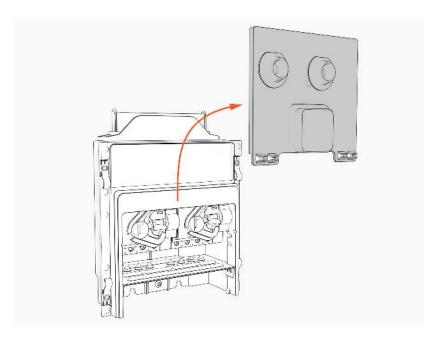
Talk to you local ChargePoint contact and agree on the best solution for the installation.

When choosing RCBO, a single input cable can be supplied to the charging station because of the share power management jumpers. The upstream cable will also be protected according to the national wiring regulations.

When choosing RCCB in certain countries, local wiring regulations will require that these stations shall be connected with two input power cables and an additional upstream Miniature Circuit Breaker (MCB). Make sure to follow the local regulations considering the maximum current delivered per charging port.

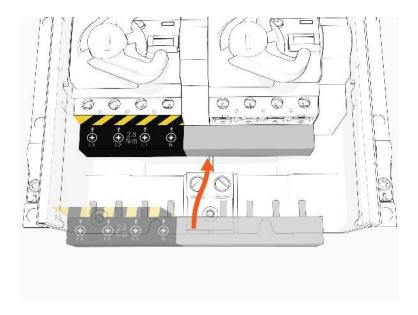
If an upstream RCD will be used, ensure that the RCD fulfils the selectivity criteria. Either 30m (s) with selective tripping characteristic or 100mA are required, so both RCDs (RCCB in station and RCD in upstream circuit board) will be connected in series.

1. Slide the power plate cover up and gently set it aside.



2. Install the jumper.

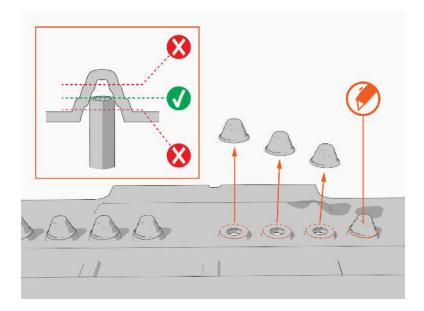
Note: Jumpers for RCBO and RCCB breakers look slightly different; however, the installation is the same.





WARNING: Install a jumper only when one circuit feeds both ports. Installing a jumper while feeding a circuit to each port could result in shorting occurring across the lines.

- a. Measure the diameter of the wires.
- b. Snip holes in the nubs on the black rubber shield.
 Holes must be at appropriate heights to allow wiring to pass through the rubber shield and into the terminal block.



c. Ensure the wires can slide through the holes after snipping the nubs.

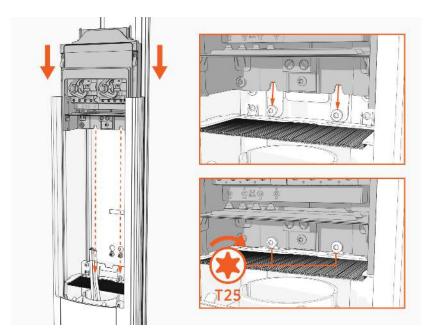
Install the Power Plate

1. Align the power plate with the housing and slide it down until it touches the metal bracket.

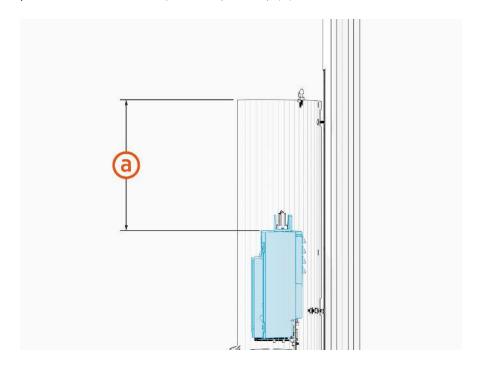


IMPORTANT: Avoid damaging the shunt trip cables when routing.

- 2. Ensure that the power plate is seated correctly.
- 3. Using a T25 torque driver, torque the screws to **5.7 Nm (50 in-lb)** to secure the power plate.

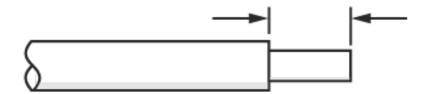


4. Ensure the power plate is fully seated. The distance from the top of the power plate to the top of the pedestal must be 286 +/- 1 mm (11.26 in) (a).



Connect the Wiring

1. Strip the wires 12 mm (0.5 in).



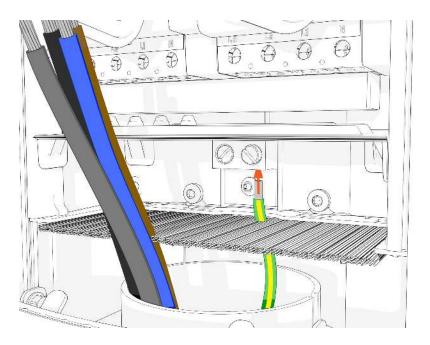


IMPORTANT: Cut wires straight across at 90° and not at an angle.



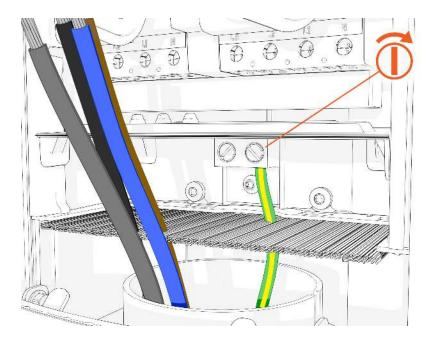
Note: Apply ferrules on multistrand cables. Crimp at the cable termination.

2. Insert the PE wire into the PE terminal.



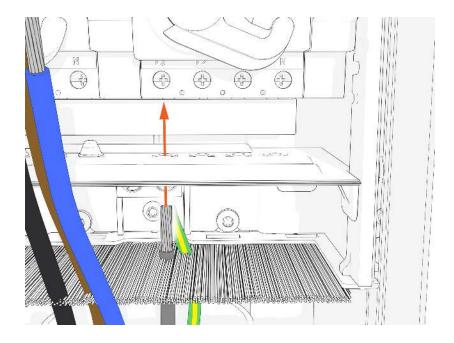
Note: Assembly may vary in appearance.

3. Tighten the screw on the PE terminal to 2.8 Nm (25 in-lb).



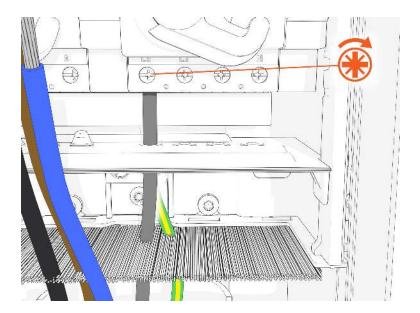
Note: Assembly may vary in appearance.

4. Insert the L3 wire into the terminal block.



Note: Assembly may vary in appearance.

5. Tighten the terminal block to 2.8 Nm (25 in-lb).

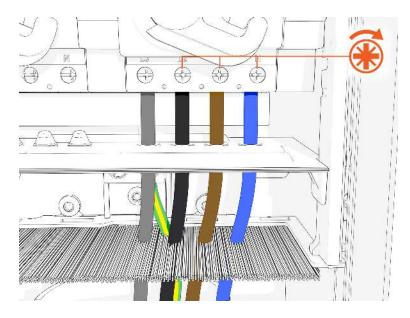




IMPORTANT: Use a properly calibrated torque wrench or torque screwdriver to avoid damaging the input terminals.

Note: Assembly may vary in appearance.

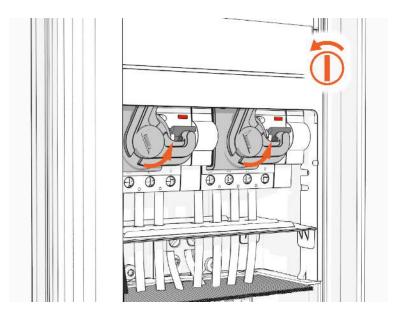
6. Repeat steps 4 and 5 for L1, L2 and N wires.



Note: Assembly may vary in appearance.

7. Cable sharing configurations only - Ensure the yellow/black sticker is on the terminal block that is not wired.

8. Switch the terminal block switches ON. Red indicates that the power is ON. Green indicates that the power is OFF.

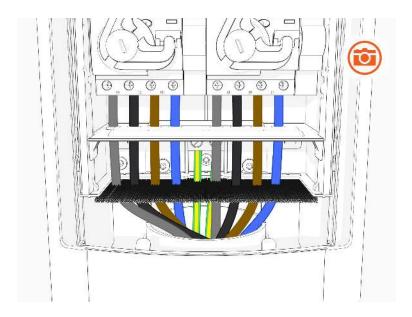


Note: Assembly may vary in appearance depending on RCCB or RCBO function.



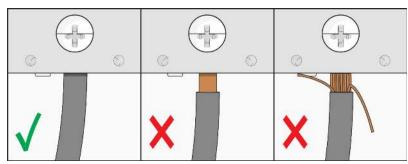
IMPORTANT: Leave internal terminal block switches in the ON (upward position) while completing station installation.

9. Take a picture of the completed terminal block wiring, including labels, to submit during pinpointing.

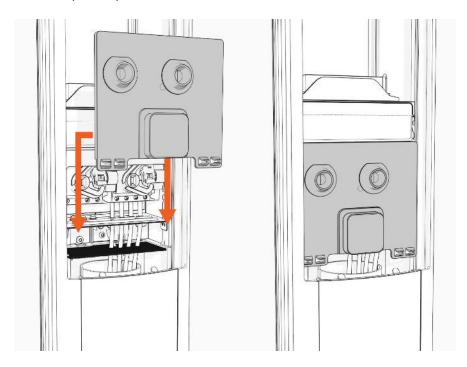


IMPORTANT: You should not see any copper wire outside the terminal block.





10. Slide the power plate cover down.



Wiring Diagrams

These diagrams show wiring for installing single- and dual-port CP6000 stations on:

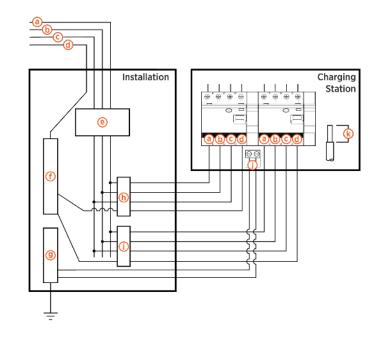
- A dual circuit, dual port
- A single circuit, dual port
- A single circuit, single port

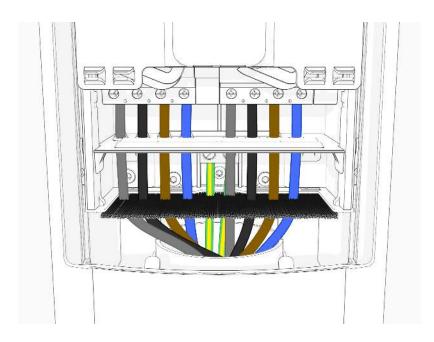
The number of dedicated circuits required depends on the type of installation and the power available at the site.

Refer to the CP6000 data sheet on chargepoint.com/guides for electrical input and output specifications.

400/230 VAC Three Phase Dual Circuit, Dual Port

- a. L3
- b. L2
- c. L1
- d. Neutral
- e. Main breaker
- f. Neutral bus
- g. Ground bus
- h. Left breaker
- i. Right breaker
- j. Ground
- k. Wire strip length 12 mm (0.5 in)



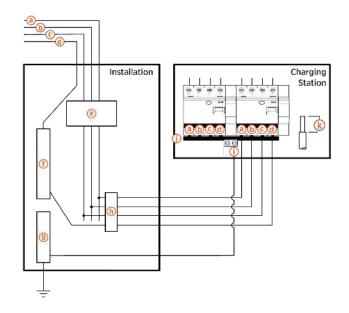


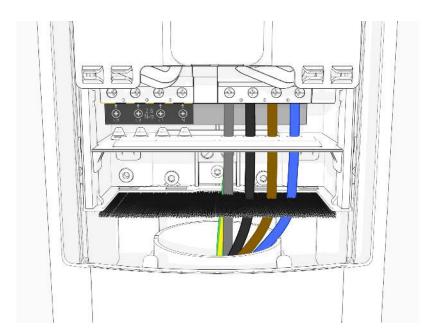
400/230 VAC Three Phase Single Circuit, Dual Port



IMPORTANT: When using a single circuit to power dual ports, you must connect cables to RCCBs or RCBOs on the right side of the terminal block.

- a. L3
- b. L2
- c. L1
- d. Neutral
- e. Main breaker
- f. Neutral bus
- g. Ground bus
- h. Breaker
- i. Ground
- j. Jumper
- k. Wire strip length12 mm (0.5 in)

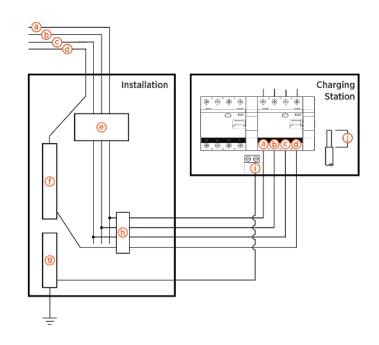


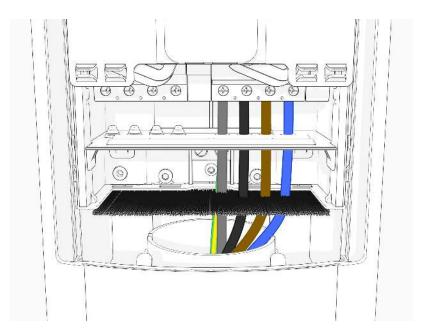


Note: This configuration can be used either with RCCB or RCBO option. Contact ChargePoint Support for guidance and follow the local national regulations.

400/230 VAC Three Phase Single Circuit, Single Port

- a. L3
- b. L2
- c. L1
- d. Neutral
- e. Main breaker
- f. Neutral bus
- g. Ground bus
- h. Breaker
- i. Ground
- j. Wire strip length 12 mm (0.5 in)





Check Voltages

Voltage Measurements

Measure Between	VAC (Plus or Minus 10%)
L – L	400
L – N	230

- 1. Turn the power ON at the circuit breaker panel.
- 2. Using a solenoid-type voltmeter, check that the voltages at the charging station's terminal block are as listed in the table above.
 - Insert the meter probes into the holes at the top of each terminal block and check the input voltage.
 - If the voltages are not within 10% of the voltages in the table above, ensure that the wiring has been properly connected. Refer to the detailed wiring diagrams in this chapter.
 - For grounding requirements, see the CP6000 Datasheet on chargepoint.com/guides.
- 3. Resolve any wiring issues and ensure that voltages are correct.



WARNING: Isolate the charging station at the circuit breaker panel before resolving any wiring issues.

4. Turn the power OFF at the circuit breaker panel.

Guidelines for Stations Supplied With Single Phase Power

When installing a CP6000 station as a single phase station, be aware of the following considerations:

Panel type

Select 1 phase for a single phase station setup.
 During the installation, the installer can choose the panel type as a 1 phase or a 3 phase.

Number of input (power) cables wired to the station

• Dual port with a single power cable



IMPORTANT: If one single-phase supply circuit is feeding a dual port station, you MUST install a L1 - L1 jumper for both ports to operate correctly. Using an L1 - L2 jumper is not allowed. Installing an L1 - L1 circuit share power management jumper is required to ensure both ports are powered by the same phase. The L1 - L1 jumper does not rotate phases, allowing both ports to draw current from L1. If an L1 - L1 jumper is not available, contact ChargePoint to order L1 - L1 power management jumpers as required.

- Dual port with a dual power cable: Each port has its own power cable, so no circuit share power management jumper is required.
- For cloud-based power management (if applicable): For cloud-based power management hosted by ChargePoint, ensure both ports use the same phase, even if supplied by two different cables. Stations not using power management can have different phases for each port.

Note:

- Avoid any phase rotation between ports. Stations with phase rotation cannot support single phase cloud-based power management.
- Do not use a single 5-wire cable to supply both ports with different phases. This setup is not supported and may lead to undesirable behavior. Contact ChargePoint if this is the only available option.

• If presented with the **Commission** page when configuring the station as **1 phase**, select the **3 phase** station option. This only indicates that all EU CP6000 stations are **3 phase** capable, even if wired as a single phase station. If the **1 phase** option appears (as highlighted), this further indicates that the EU station is incorrectly identified and must be corrected before proceeding.



Wiring Diagrams for Single Phase Installation

These diagrams show wiring for installing single- and dual-port CP6000 stations on:

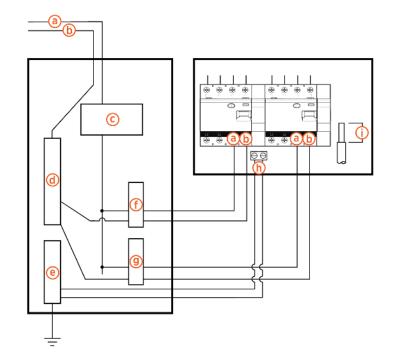
- A dual circuit, dual port
- A single circuit, dual port
- A single circuit, single port

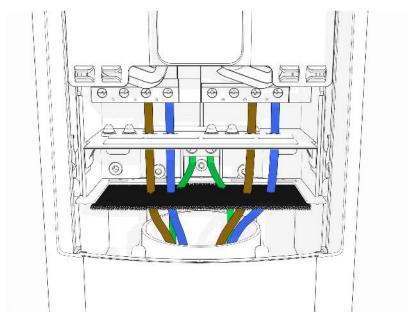
The number of dedicated circuits required depends on the type of installation and the power available at the site.

Refer to the CP6000 data sheet on chargepoint.com/guides for electrical input and output specifications.

230 VAC Single Phase Dual Circuit, Dual Port

- a. L1
- b. Neutral
- c. Main breaker
- d. Neutral bus
- e. Ground bus
- f. Left breaker
- g. Right breaker
- h. Ground
- i. Wire strip length 12 mm (0.5 in)

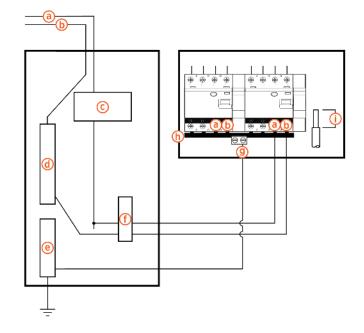


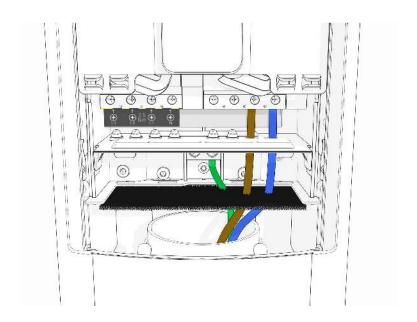


Note: It is recommended that the Neutral should also pass through the main breakers (a country-specific requirement). In a dual input configuration, each input must be connected to its own breaker; a single breaker for both inputs is not allowed. Two main breakers are required.

230 VAC Single Phase Single Circuit, Dual Port

- a. L1
- b. Neutral
- c. Main breaker
- d. Neutral bus
- e. Ground bus
- f. Breaker
- g. Ground
- h. L1 L1 jumper
- i. Wire strip length 12 mm (0.5 in)

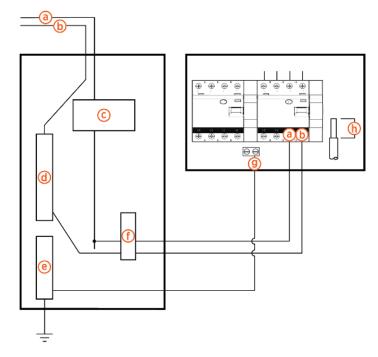


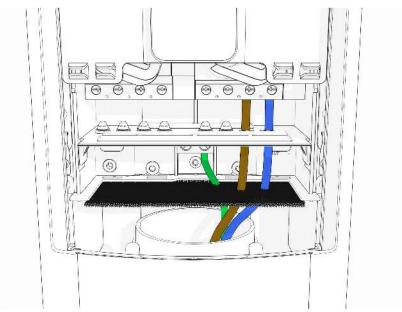


Note: This configuration can be used either with RCCB or RCBO option. Contact ChargePoint Support for guidance and follow the local national regulations.

230 VAC Single Phase Single Circuit, Single Port

- a. L1
- b. Neutral
- c. Main breaker
- d. Neutral bus
- e. Ground bus
- f. Breaker
- g. Ground
- h. Wire strip length 12 mm (0.5 in)





Check Voltages



IMPORTANT: Ensure that Neutral connects to ground in the system per applicable codes.

The following table lists the expected input voltage measurements.

Input Voltage Measurements

Measure Between	VAC (Plus or Minus 10%)			
L-N	230			

- 1. Turn the power ON at the circuit breaker panel.
- 2. Using a solenoid-type voltmeter, check that the voltages at the charging station's terminal block are as listed in the table above.
 - Insert the meter probes into the holes at the top of each terminal block and check the input voltage.
 - If the voltages are not within 10% of the voltages in the table above, ensure that the wiring has been properly connected. Refer to the detailed wiring diagrams in this chapter.
 - For grounding requirements, see the CP6000 Datasheet on chargepoint.com/guides.
- 3. Resolve any wiring issues and ensure that voltages are correct.
- 4. Turn power OFF at the circuit breaker panel.

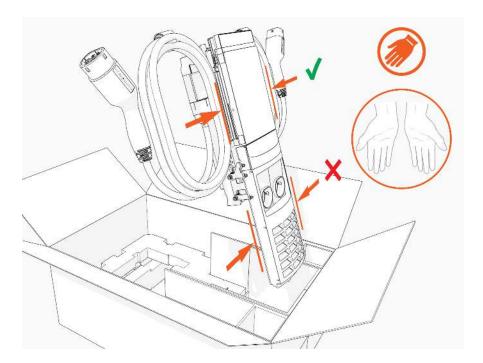
Assemble the Station 5

Connect the Head Assembly

1. Remove the head assembly from the packaging by holding the metal castings.



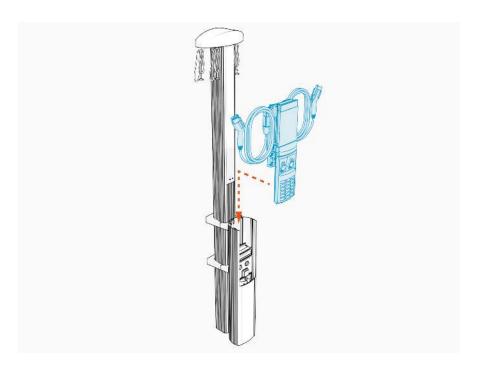
IMPORTANT: Wear protective gloves. Hold the metal edges of the head assembly, not the plastic front cover, to avoid damaging the front cover.



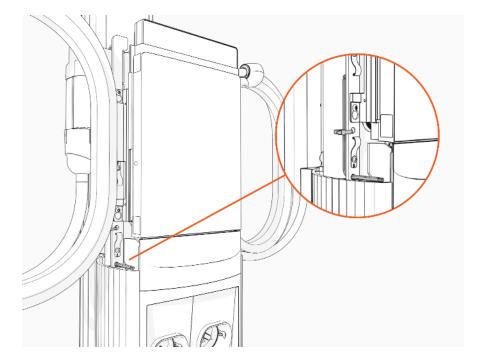
2. Align the rails on the head assembly with the pedestal and slide it into the pedestal housing.



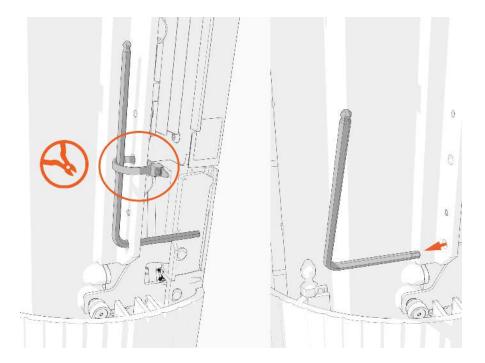
IMPORTANT: Avoid damaging cables when installing the head assembly.



The head assembly rests on the L-wrench connected to the side of the assembly.

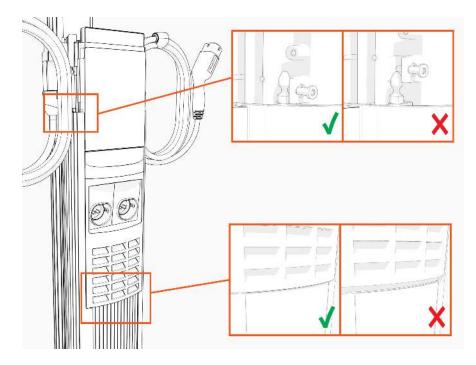


3. Remove the L-wrench.

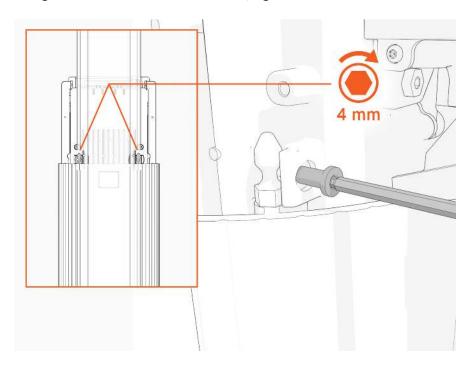


4. Slide the head assembly all the way into the pedestal housing. Ensure that the head assembly is fully seated.

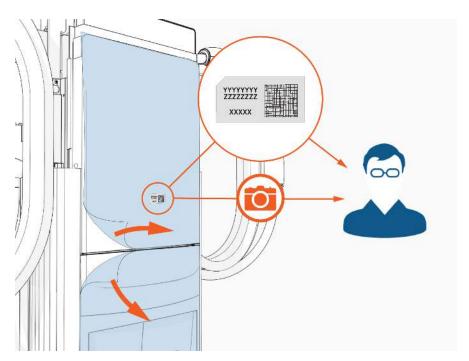
Note: If the head assembly doesn't slide all the way into the pedestal housing, check that the power plate is seated correctly.



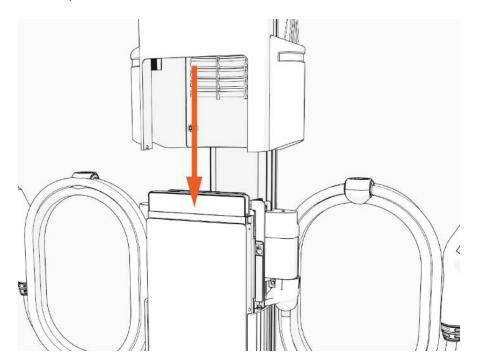
5. Using the L-wrench or 4 mm hex tool, tighten two screws.



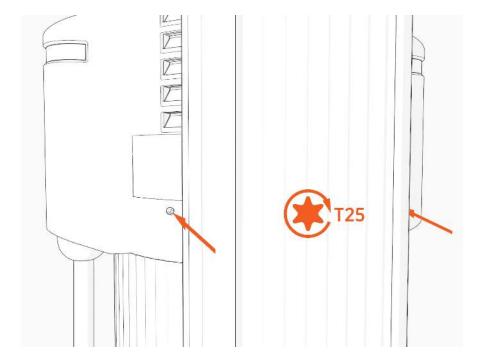
6. Take a picture of the activation label, remove the protective film, and give the protective film with the label to the station owner.



7. Slide the top cap onto the head assembly, adjusting it as necessary to clear the SEVC cables, until it fits into place.



8. Torque two captive screws to 1.1 Nm (10 in-lb).



Install Rating Labels

The rating label corresponds to amperage ratings. Identify if the charging station setup is for a single port or dual port with circuit sharing, and then apply the appropriate rating label for electrical rating.

Additionally, ensure the correct rating labels are applied based on the region (NA or EU) since the ratings and standards may differ.

- 1. Locate the rating label sheet provided with the CP6000 station.
- 2. Ensure the label selected from the rating label sheet matches the current breaker rating installed in the electrical setup.

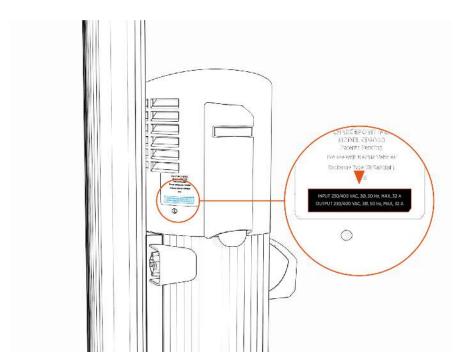


IMPORTANT: The rating label must match the station system configuration.

3. Apply the rating label on the top cap, behind the station's right ear.

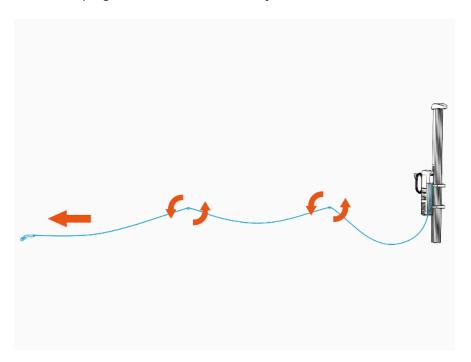
If there is a default rating label already applied by the manufacturer, place the new label over the default rating label to indicate the installer-configured rating.

Note: Place a generic label on the electrical panel and affix an additional rating label directly on the station.

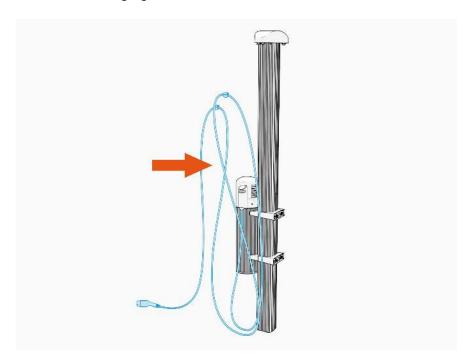


Install the Cable Clamps

1. Uncoil the charging cable by gently extending it all the way out and away from the station. Rotate the plug as needed to remove any twist or kinks.

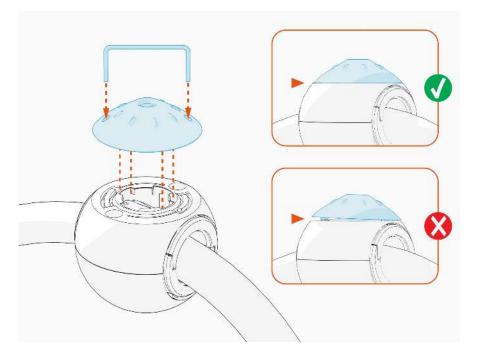


2. Position the charging cable near the base of the station.

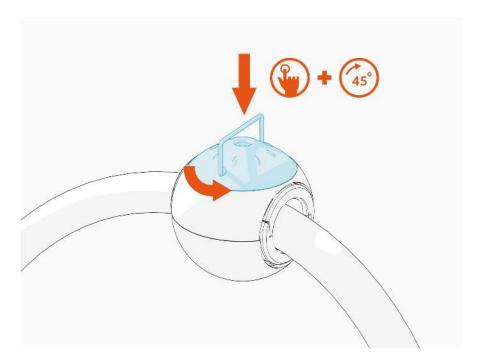


3. Align the knot bearing on each rope to its corresponding mating feature on the cable clamp. Align the rear clamp first and then the front clamp.

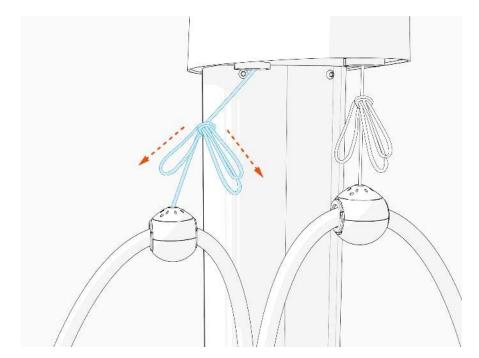




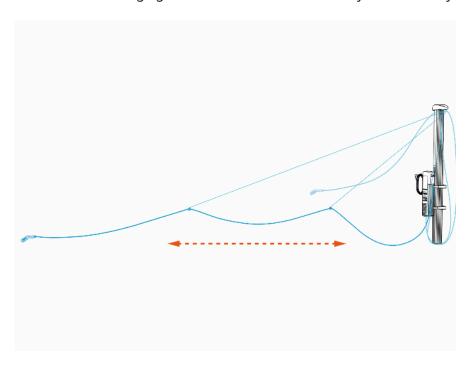
4. Using the tool provided, push down while turning the knot bearing clockwise approximately a 1/4 turn to connect the cable clamp.



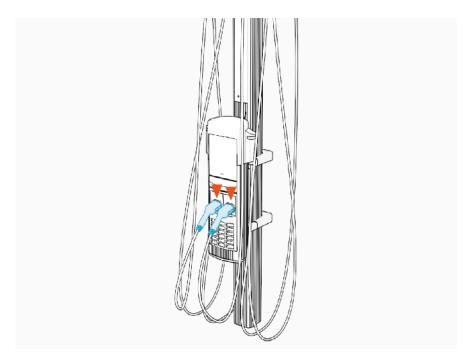
5. Untie the knot near the top of the CMK.



6. Check that the charging cable extends and retracts fully and smoothly.



7. Insert the charging cables into their corresponding holsters.



Complete the Station Setup 6

To complete the setup, you must have completed the installer training and received your installer login. To complete the next steps, you need:

- Installer login
- Activation label (including the MAC address), if not already applied to the top cap
- A smartphone with a camera, QR code scanning (usually built into the camera app), Internet connectivity and the app
- The exact location (to the parking space) where the CP6000 charging station is physically installed

Power Up

Power up the station at the breaker panel. If the station does not power up, turn the power back off and check that the head assembly is fully seated into the housing.

Next Steps

Use either one of the following two methods to configure and pinpoint the charging station:

- ChargePoint Installation Wizard and Pinpoint Portal OR
- ChargePoint Installer app

Installation Wizard and the Pinpoint Portal

When you power up the charging station, the on-screen Installation Wizard runs. The wizard verifies operation of the station and performs basic set-up tasks.



IMPORTANT: Pinpointing allows drivers to quickly locate the charging station on a map. Ensure that you accurately pinpoint the charging station when prompted by the Installation Wizard.

Before running the Installation Wizard, ensure you have:

- The new charging station's activation label (located on the plastic film protecting the front of the charging station; a spare label is included in the delivery box)
- Smartphone or laptop with a QR-code scanner, camera and Internet connection
- Your ChargePoint-Certified Installer username and password

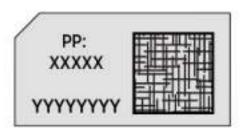
The Installation Wizard includes these tasks:

- Set a language for the Installation Wizard.
 - **Note:** This does not permanently affect the station's display language. Choose the language most convenient for you.
- Configure power
- · Check for faults
- · Test network connectivity
- Complete the post-installation checklist

If your smartphone has a scanning app:

1. Open a QR code scanning app.

Point the camera at the QR code on the activation sticker.



Your device is automatically redirected to the installer pinpointing page. Confirm that the URL for the page is o.chargepoint.com.



- 2. Log in to the installer site using your installer login. Tap Log In.
- 3. Confirm the MAC address and activation password have been automatically entered and are correct.
- 4. Tap Next.
- 5. Follow the prompts to complete the pinpointing process.

If your smartphone does not have a scanning app:

- 1. Using your smartphone, navigate to o.chargepoint.com.
- 2. Enter the MAC address and activation password printed on the activation label.
- 3. Tap Next.
- 4. Follow the prompts to complete the pinpointing process.

ChargePoint Installer app

Use the ChargePoint Installer app to complete the station setup procedure.

1. If you do not already have the Installer app, scan the QR code to download the app, and sign up.



- 2. Open the ChargePoint Installer app and log in.
- 3. Select Configure.
- 4. Confirm that you have all the required materials to continue activation, and select **Yes**.
- 5. Follow the prompts in the Installer app.

Start a Charging Session

Once the Installation Wizard or Installer app setup is complete, use the app to start a test session. Verify that you can:

- Initiate a charging session
- Unlock the holster and pull out the charge handle
- Plug the handle into the emulator (if available)
- Holster the handle
- Verify that the handle is locked again

Complete the Checklist

Before leaving the installation site, complete the post-installation checklist.

Customer Information	
Customer name	
Customer contact name	
Customer contact phone	
Customer contact email	

Customer Information

Site Information	
Street and number	
City	
Country	
Postcode	
Number of stations to be installed	
Number of paired stations to be installed (if applicable)	
Expected start of construction works	
Expected installation and commissioning date	

Site Information

Site Contractor Information	
Contractor type	ChargePoint designated []
	Customer designated []
Contractor company name	
Contractor site lead name	
Contractor site lead phone	
Contractor site lead email	

Site Contractor Information

Installer Information		
Installer type	ChargePoint recommended	[]
	Customer recommended	[]

Installer Information

Installer Information	
Installation company name	
Installer contact name	
Installer contact phone	
Installer contact email	

Installer Information (continued)

Post-installation checklist	
Earth/ground connection is made to the ground lugs (where applicable).	
The charging station complies with regional accessibility laws, regulations and ordinances.	
Are the Eichrecht sealing and markings intact and correct per local regulations and the <i>CP6000 Installation Guide</i> ?	
Only for stations in Germany and Austria that are public	
Service wiring has been fully inserted into the terminal blocks and all electrical connections are clean and snug.	
The breakers are labelled in the electrical panel.	
Electrical enclosures are clean and free of wire strands and metal shavings.	
All covers are installed and all fasteners are tightened. The station is fully secured and does not rock or wiggle.	
The cable clamps are assembled and have no gaps.	
The charging cables operate smoothly through full extension and retraction.	
The parking area is clean and free of all packaging and debris.	
All pinpointing steps from the Installation Guide have been completed.	
No fault codes are displayed for any port.	
The network test at the end of the Installation Wizard has succeeded.	
The station has a minimum of -85 dBm or better signal strength (where higher numbers are lower signal strength).	
The charging station executed a successful test charging session.	

Give the checklist and any spare parts (activation labels etc.) to the person responsible for activating the stations. This completes the installation of the CP6000 charging station.

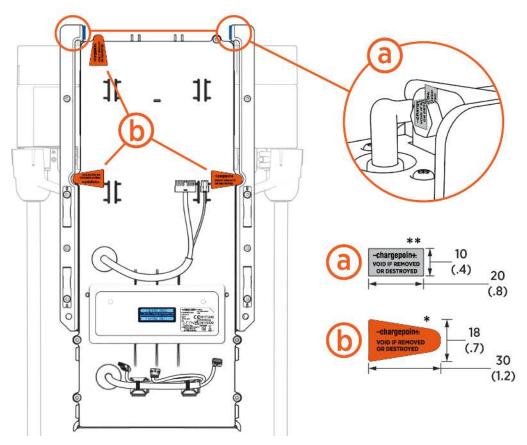
-chargepoin+

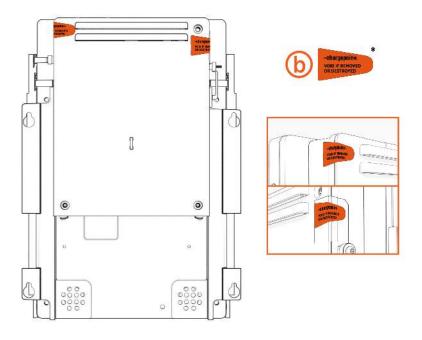
CP6000 protection labels 7

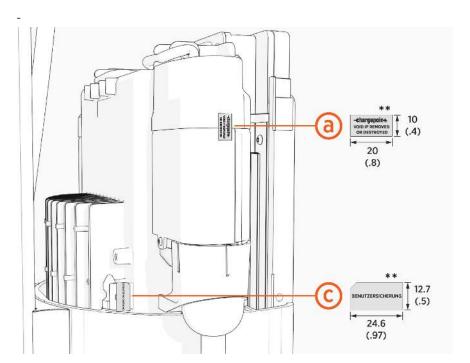
Components of the CP6000 have self destructive tamper proof labels applied by the manufacturer in several locations (a) and (b). Components of the CP6000 also have self destructive tamper proof labels applied by users in some locations (c) (optional).

- * VOID IF REMOVED OR DESTROYED
- ** VOID IF REMOVED OR DESTROYED

Note: Images are not to scale. Measurements appear in metric units (mm) followed by imperial equivalents (inches).







For more information on Eichrecht requirements and head unit tamper evident sealing labels, refer to Protection Label Guide.

Tampered or Damaged Labels (Seals) on Eichrecht-Compliant Charging Stations

Eichrecht Requirements - Calibration Law

After an Eichrecht-compliant charging station is placed in the field, the responsibility shifts from the notified bodies (e.g., PTB (National Metrology Institute of Germany)) to the federal calibration authorities in Germany. These authorities are tasked with overseeing the proper functioning of measuring devices used in commercial settings.

For handling damaged or tampered labels, note the following:

- Check the manufacturer seal for any signs of damage, voiding, or tampering during installation.
- Avoid damaging any seals during the installation process.
 - **Note:** An Eichrecht-compliant station with a damaged manufacturer label is deemed invalid for the calibration period and must not be used commercially until the charging station has been checked and recalibrated by the calibration authority.
- Only authorized and qualified personnel should replace damaged seals in the field (placed by the manufacturer in the factory (manufacturer seal)).
- After replacing a seal, inform the appropriate Calibration Authority about the seal replacement.
- Once notified, the calibration authority must inspect and calibrate the charging station to restore the station's full Eichrecht-compliance.
- Before leaving the installation site, make sure to check if the all the seals are intact.

Calibration Authority Notification

The contact details of the responsible calibration authority can be found on the (https://agme.de) website.

- 1. Click Adressen / Verzeichnisse tab and select Eichbehörden (alle Standorte).
- 2. Alternatively, select **Eichdirektionen**, which serves as the headquarters for each federal state in Germany.

Note: Choose a calibration authority located in the same federal state as the charging station's installation site. The responsible authority may not be determined solely based on close proximity. For example, if installing a station in Bavaria near the Baden-Württemberg border, select the nearest authority in Bavaria, not in Baden-Württemberg. In case of uncertainty, the calibration authorities will direct the installers to the correct authority or forward the correspondence accordingly.



Install USB to Ethernet Module A

Installing the USB to Ethernet Module enables the CP6000 charging station to connect to a local Ethernet network for LAN based data communication.

The module has a USB port connector on one end to plug into the USB port of the CP6000 charging station and a RJ45 Ethernet port on the other end to connect an Ethernet cable. The RJ45 Ethernet connector is clamped with a ferrite to reduce electromagnetic interference (EMI).

Note: Cat 6a shielded Ethernet cable is compatible with the RJ45 Shielded Quickon Connector (or the Ethernet connector) provided in the Ethernet Kit.

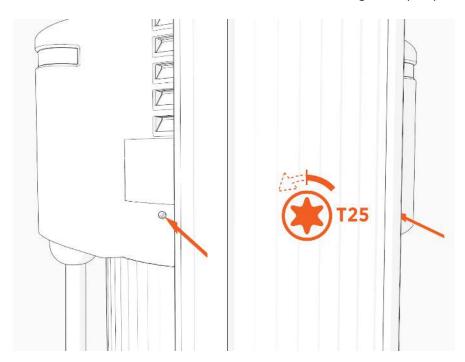
Important considerations

- The USB cable is installed before the station leaves the factory, but it is not connected. To install the
 module, remove the head unit, and connect the USB to the Control and Communications (CCOM)
 Module.
- Cat 6a and above cables (Cat 7, Cat 7a, Cat 8) must be used.
- The cable must be shielded.
- The cable's shield must be earthed/grounded at the installation site.
- One ferrite cable core, model Wurth 742 758 15, must be placed inside the charger on the LAN cable, as close as possible to the input of the RJ45 Ethernet connector.

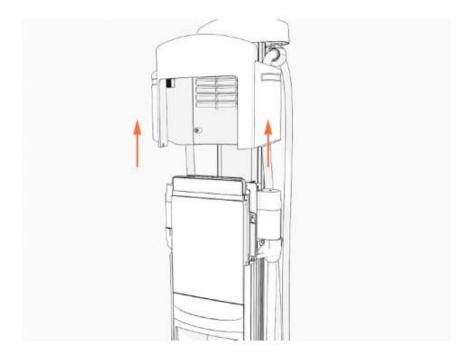
Install the USB to Ethernet Module

Complete the following steps to install the USB to Ethernet Module:

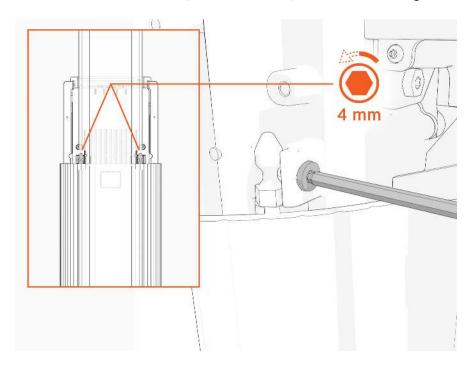
- 1. Disconnect the power to the CP6000 at the service panel.
- 2. Use the L-wrench to loosen the two T25 screws securing the top cap.



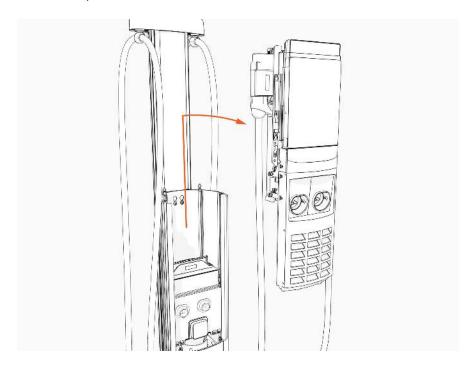
3. Remove the top cap.



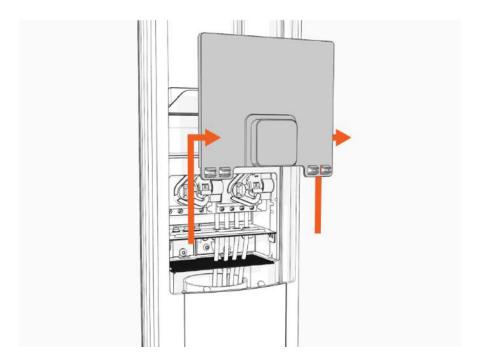
4. Use the L-wrench to loosen, but not remove, the screws securing the head assembly.



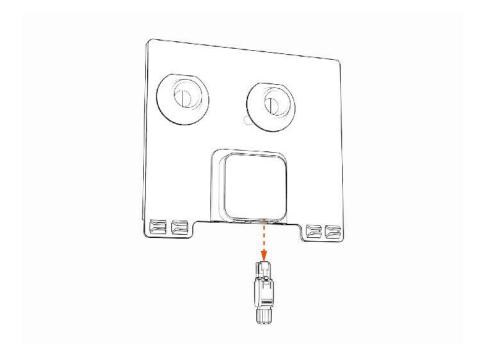
5. Lift the head assembly to remove it from the pedestal or wall mount enclosure. Place it gently face down on a padded surface.



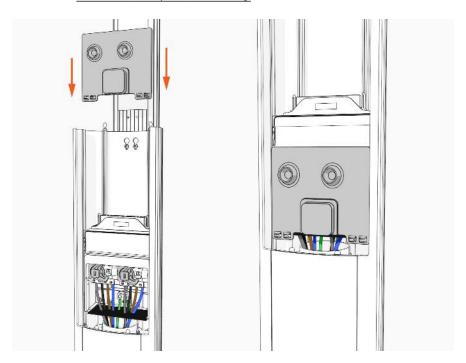
6. Remove the power plate cover.



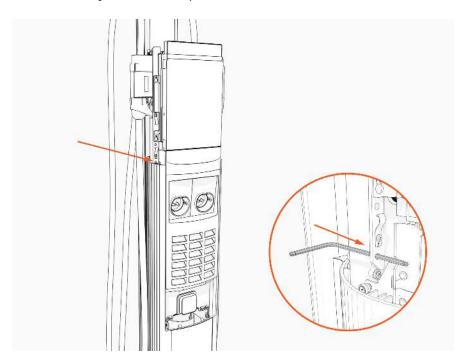
7. Remove the RJ45 Ethernet connector (factory-attached to the Ethernet Module).



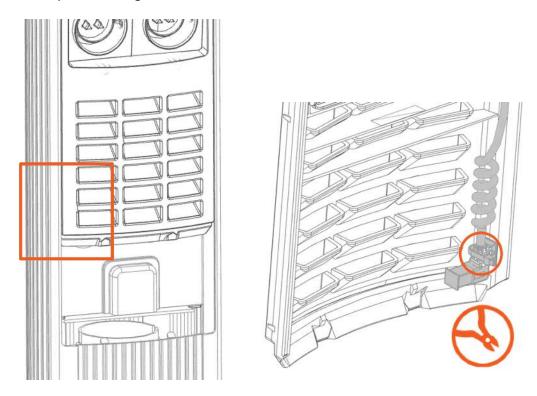
8. Install the Ethernet Adapter Assembly.



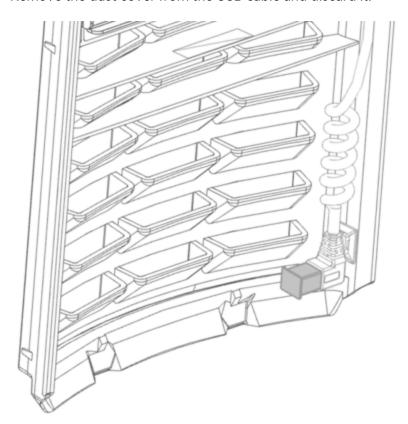
9. Insert an L-wrench or a screwdriver through the hole on the side of the head assembly to hold the head assembly in the raised position.



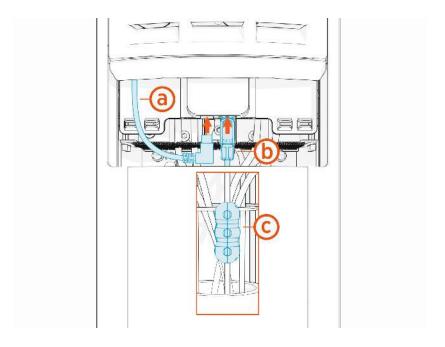
10. Cut the zip tie securing the USB-C cable to the holster frame.



11. Remove the dust cover from the USB cable and discard it.

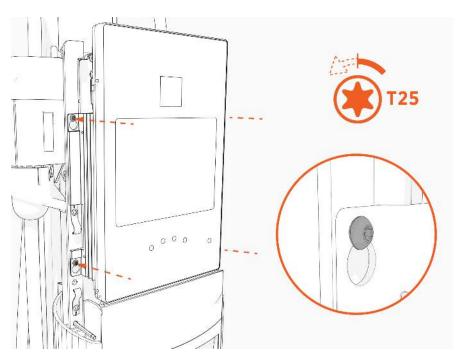


- 12. Install the cables and accessories:
 - (a) Connect the USB cable to the Ethernet Module.
 - (b) Attach the Ethernet connector to the Ethernet cable, and then connect the Ethernet cable to the Ethernet Module.
 - (c) The module includes one ferrite. Ensure the ferrite is securely attached to the RJ45 Ethernet connector of the module.



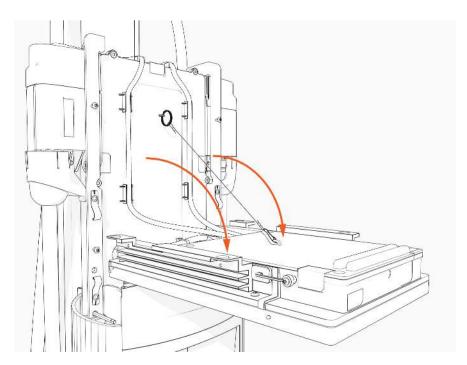
13. Loosen but do not remove screws securing the CCOM to the head assembly.

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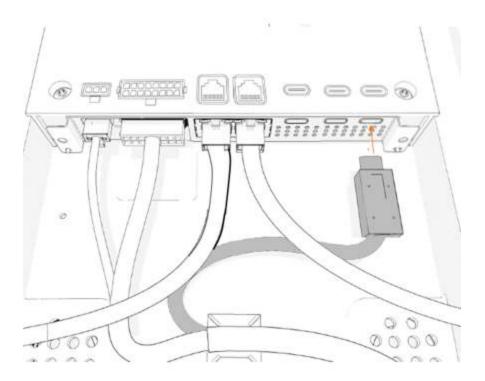


14. Lift the CCOM up and tilt it away from the head assembly. The bottom edge of the CCOM rests on the upper edge of the holster assembly.

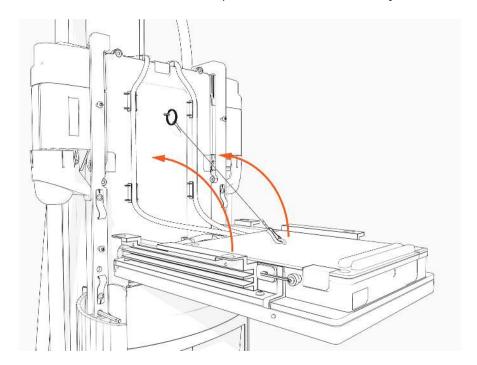
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15. Connect the USB-C cable.



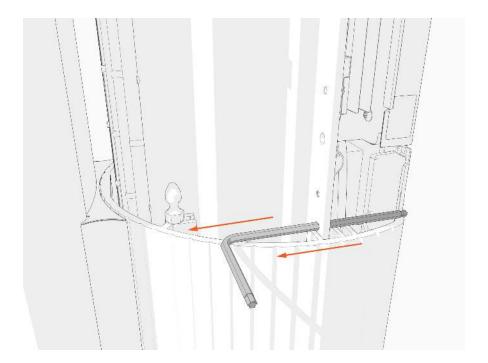
16. Raise the CCOM and slide it into place on the head assembly.



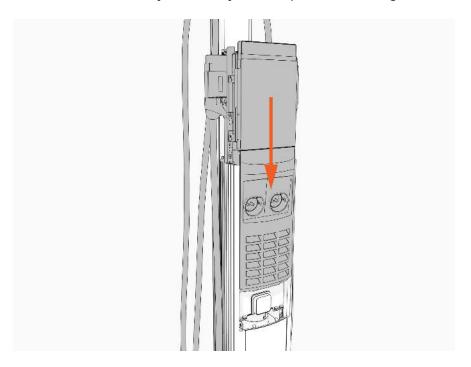
17. Torque the screws to 1.7 Nm (15 in-lb) to secure the CCOM.



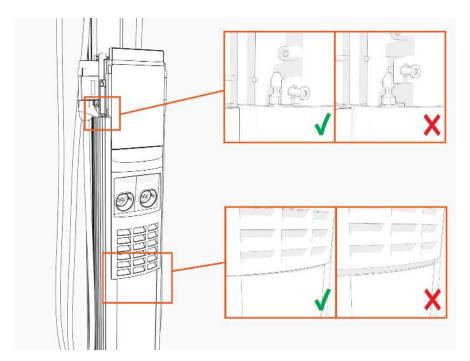
18. Remove the L-wrench.



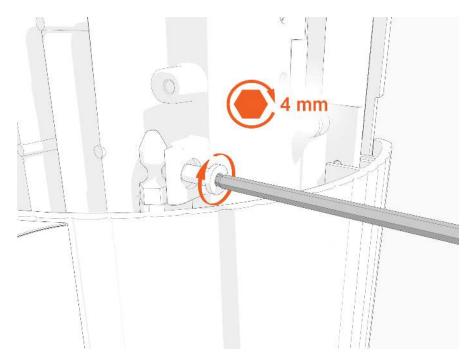
19. Slide the head assembly all the way into the pedestal housing.



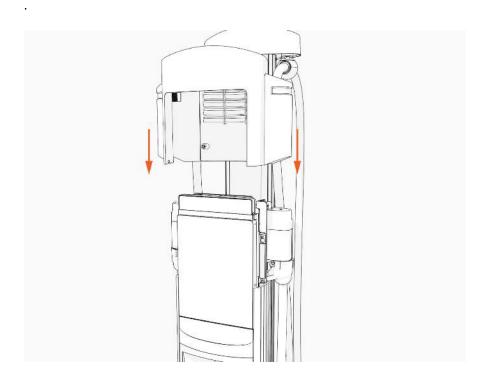
20. Ensure that the head assembly is fully seated.



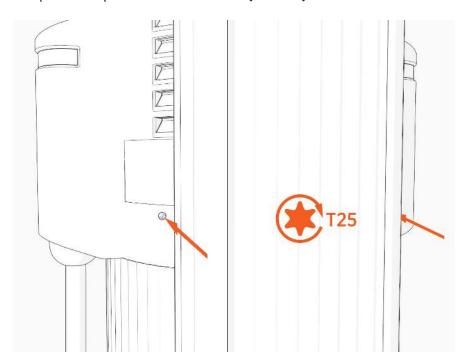
21. Using the L-wrench, tighten the two screws.



22. Slide the top cap onto the head assembly, adjusting it as necessary to clear the SEVC cables, until it fits into place.



23. Torque two captive screws to 1.1 Nm (10 in-lb).



24. At the electrical panel, power up the station. One or both port LEDs will appear red until the lockout faults are cleared.

Limited Warranty Information and Disclaimer

The Limited Warranty you received with your charging station is subject to certain exceptions and exclusions. For example, your use of, installation of or modification to the ChargePoint® charging station in a manner in which the ChargePoint® charging station is not intended to be used or modified will void the limited warranty. You should review your limited warranty and become familiar with the terms thereof. Other than any such limited warranty, the ChargePoint products are provided "AS IS", and ChargePoint, Inc. 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

CHARGEPOINT IS NOT LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION LOST PROFITS, LOST BUSINESS, LOST DATA, LOSS OF USE, OR COST OF COVER INCURRED BY YOU ARISING OUT OF OR RELATED TO YOUR PURCHASE OR USE OF, OR INABILITY TO USE, THE CHARGING STATION, UNDER ANY THEORY OF LIABILITY, WHETHER IN AN ACTION IN CONTRACT, STRICT LIABILITY, TORT (INCLUDING NEGLIGENCE) OR OTHER LEGAL OR EQUITABLE THEORY, EVEN IF CHARGEPOINT KNEW OR SHOULD HAVE KNOWN OF THE POSSIBILITY OF SUCH DAMAGES. IN ANY EVENT, THE CUMULATIVE LIABILITY OF CHARGEPOINT FOR ALL CLAIMS WHATSOEVER RELATED TO THE CHARGING STATION WILL NOT EXCEED THE PRICE YOU PAID FOR THE CHARGING STATION. THE LIMITATIONS SET FORTH HEREIN ARE INTENDED TO LIMIT THE LIABILITY OF CHARGEPOINT AND SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.

