

CT202X ChargePoint® Charging Station Removing and Installing Cable and Head Assemblies

Follow the instructions in this document to remove or install a CT202X's cable assembly or head assembly. This document summarizes the steps needed to:

- CT2025 ONLY Remove access panel (page 1)
- Remove head assembly (page 2)
- Remove cable assemblies (page 2)
- Install cable assembly 2 (page 2)
- · Install cable assembly 1 (page 3)
- Install head assembly (page 3)
- · Verify that the station operates correctly (page 4)
- Secure the station (page 4)
- Arrange for station provisioning (page 4)

For detailed instructions, refer to the CT2021 or CT2025 Installation Guide. These guides are included in the shipping box containing the station's main body assembly. They are also available at www.coulombtech.com/library.php.

NOTE: Throughout this document, the CT2021 is used for illustration purposes. Unless otherwise noted, the same steps apply to the CT2025.

You will need

- · T25 Torx Driver
- · Straight screwdriver



IMPORTANT - BEFORE YOU BEGIN

Remove the charging cables from their holsters by scanning a valid and authorized ChargePass card. If the holsters do not unlock after scanning a valid card, contact Coulomb Customer Support at 1-877-850-4562.

AFTER removing the charging cables, TURN OFF power at the breaker panel.

CT2025 ONLY - Remove access panel

 Remove the access panel's cover plate by wedging a small straight screwdriver (or strong knife blade) into the EXACT center location between the top of the access panel and the top front panel. To determine the exact center location, it is helpful to count the number of grooves in the panel.

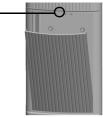
After determining the location and inserting the screwdriver, pry the cover plate towards you until it snaps out of place. While prying with one hand, use your other hand to support the cover panel to prevent it from falling when it releases.

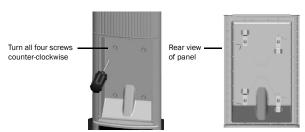
2. Using a T25 Torx driver, turn the four screws inside the access panel counter-clockwise to position its rear brackets vertically.

NOTE: The screws need to be turned counter-clockwise only a half to a full turn to turn the rear brackets to their vertical position. Corresponding stops prevent the brackets from turning further.

3. Remove the access panel from its opening (bottom first).







Remove head assembly

- Disconnect the two cables from the top of the head assembly (CT2025 only).
- Insert a straight screwdriver into the center of the bottom edge of the front panel (located at the bottom of the head assembly), then pry the front panel towards you until it snaps out of place.



CLOSE-UP VIEW OF THE BACK OF THE FRONT PANEL - Note that there is a notched area in the exact center of the bottom. To remove, you must wedge a screwdriver into this notched area.



Loosen the two security screws on the head assembly

Loosen the two security screws on the filler panel



- 3. Repeat the above step for the second front panel, located between the cable assemblies.
- 4. Using a T25 Torx driver, loosen the two captive security screws located at the bottom of the head assembly
- 5. Disconnect the wiring by sliding the head assembly upwards far enough to access the connectors, then disconnect the two rectangular connectors, the two circular connectors (by rotating the outer ring counter-clockwise), and the ground wire.
- 6. Slide the head assembly upwards to remove.

Remove cable assemblies

- 1. Disconnect cable assembly 1's rectangular connector and ground wire from the terminal block, then slide cable assembly 1 upwards to remove.
- 2. Loosen the two captive screws on the filler panel located between the two cable assemblies, then slide upwards to remove.
- 3. Disconnect cable assembly 2's rectangular connector, circular connector (by rotating the outer ring counter-clockwise), and ground wire. Then slide upwards to remove.

Install cable assembly 2

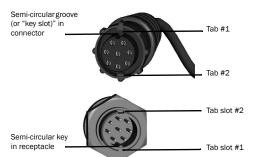


IMPORTANT! You must install cable assembly 2 on the bottom and cable assembly 1 on top.

1. Slide cable assembly 2 into the body all the way until it is flush with the top of the front panel.

IMPORTANT! When sliding the cable assembly into the body, ensure that the serial cable doesn't get caught between the cable assembly and the terminal block. Also ensure there is NO gap between the cable assembly and the top of the front panel. The cable assembly fits tightly and may require extra downward force to ensure it is fully seated.

- 2. Plug the cable assembly's rectangular connector into the terminal block, ensuring it is fully seated.
- 3. Connect the circular connector that hangs down from the topmost terminal block to the top of the cable assembly, as follows:
 - Using the white arrow as a guide, align the circular connector so that:
 - the key slot in the connector matches up with the key in the receptacle $\ensuremath{\mathsf{AND}}$
 - the tabs on the connector match up with the tab slots on the receptacle
 - Insert the connector until fully seated (do not use excessive force).
 - Rotate connector's outer ring in a clockwise direction until snug.





NOTE: On the CT2025, insert the cable assembly into the main body's access panel opening, then slide down.

 ${\bf 4. \ \ Connect\ the\ ground\ wires\ to\ the\ ground\ tabs\ on\ the\ cable\ assembly.}$

IMPORTANT! DO NOT insert the charging connector into the holster until after you power up the charging station. If you insert the connector before the station has powered up, the holster will not unlock!

Install cable assembly 1

- Slide the filler panel into the body, ensuring it is flush with the top of cable assembly 2.
- Slide cable assembly 1 into the body all the way until it is flush with the top of the filler panel.

IMPORTANTI Ensure there is NO gap between the cable assembly and the top of the filler panel. The cable assembly and filler panel fit tightly and may require extra downward force to ensure they are fully seated.

- Plug the cable assembly's rectangular connector into the left receptacle on the terminal block, ensuring it is fully seated.
- Connect the ground wire to the tab at the top of the cable assembly.

IMPORTANT! DO NOT insert the charging connector into the holster until after you power up the charging station. If you insert the connector before the station has powered up, the holster will not unlock!



NOTE: On the CT2025, insert the filler panel and cable assembly into the main body's access panel opening, then slide down







Install head assembly

1. When unpacking the head assembly from its shipping box, retain the spare provisioning label. This label contains important information that is needed to provision the station (see page 4 for details).



- 2. Slide the head assembly into the body far enough to connect the wiring, then:
 - Connect the blue circular connector (without the ground wire) to the blue connector on the terminal block (see page 2 for details on how to attach a circular connector).
 - Connect the head assembly's rectangular connector to the receptacle on the right side of the terminal block, ensuring it is fully seated.
 - Connect the circular connector containing the ground wire to the cable assembly, then connect its ground wire to the vacant ground tab on the cable assembly.
 - Keeping cables out of the way (by pushing them to the back and side if necessary), firmly slide the head assembly all the way into body.
 - If the head assembly is not fully seated, visually verify that the cable assemblies and the filler panel are fully seated. If necessary, press down on the head assembly to seat the gaskets.

IMPORTANT! Ensure that the head assembly is fully seated and that no gap exists between the bottom of the head assembly and the top of the cable assembly. The head assembly fits tightly and may require extra downward force to ensure it is fully seated.

3. CT2025 ONLY:

- Connect the 802.15.4 cable (black cable with the yellow band) to the top of the head assembly, ensuring that the bend in this cable is positioned towards the back.
- If you are installing a gateway station, connect the modem cable (black cable without a
 yellow band) to the rear connector.

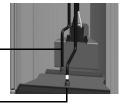




NOTE: On the CT2025, insert the head assembly into the main body's access panel opening

Connect the cable without the yellow band to the rear connector. Only gateway stations have this cable.

Connect the cable with the yellow band to the front connector



Verify that the station operates correctly

Before securing the head assembly, follow these instructions to ensure that the charging station is fully operational:

- Turn on the main power to ensure the head assembly powers up. When the circuit is live and the head assembly's wiring is connected, a sequence
 of power-up messages will be displayed. If this is not the case, ensure the head assembly's rectangular connector is fully seated. If the connector is
 fully seated and the station still does not power up, contact Coulomb Customer Support at 1-877-850-4562.
- Ensure that **none of the LEDs above the station's display are illuminated or blinking RED**. This indicates that the station has detected an error and you'll need to read the station's display to troubleshoot the error, then refer to detailed troubleshooting instructions provided in the station's installation guide.
- Insert the charging station's connectors into their corresponding holsters. Scan a valid and authorized ChargePass card to confirm that both
 holsters unlock. The LED inside each holster should also illuminate. If either holster does not unlock, contact Coulomb Customer Support at
 1-877-850-4562.
- Observe the display as it sequentially displays the current state of each charging port. **Both ports should be "AVAILABLE**". If this is not the case, an error message will be displayed instead. Refer to detailed troubleshooting instructions provided in the station's installation guide.

CT2025 ONLY - Install the access panel

To install the access panel, reverse the instructions provided on page 1.

Secure the station

- 1. Using a T25 Torx driver, secure the head assembly by tightening the two captive security screws located at the bottom of the head assembly.
- 2. Tighten the two captive screws on the filler panel until snug.



IMPORTANT! Do NOT over-tighten the security screws (snug fit only).

3. Align the protruding features on the front cover panel with the openings on the head assembly. Ensure the slot in the back of the panel is at the bottom. Snap into place, one side at a time. Repeat to install the second front cover panel over the filler panel.

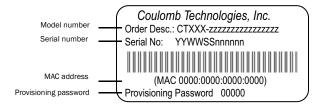
Arrange for station provisioning

Whenever a new head assembly is installed on a station (even when you're replacing an existing head assembly), the station will need to be provisioned. Provisioning is the act of connecting the charging station to the ChargePoint network and establishing its identity. In other words, you provision a station to "go live" on the network. When replacing an existing head assembly, the provisioning process is called a "head swap" procedure because the location information is already known by the ChargePoint network.

To provision a station, you'll need to provide your Coulomb distributor (or the person responsible for provisioning charging stations) with:

· Head assembly information

Important information identifying the head assembly is duplicated on two labels. One label is affixed to the head assembly (once installed, you can no longer see this label). A spare label is included in the shipping box with the head assembly.



Detailed location information (not required if replacing a head assembly on a station that has already been provisioned)

Provide the station's mailing address, location description (if helpful), and exact GPS coordinates (if possible). Be as accurate and as detailed as possible. A station's address and physical location may vary slightly so it is important to provide any other information that will make it easy for drivers to find the station on a GoogleTM map (such as "third floor of parking garage"). This is especially important when you install multiple stations at the same mailing address. A best practice is to determine the exact GPS coordinates of the parking space in which the station is located.



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