



Surface Conduit Entry (SCE) Kit

for Express Plus Power Link

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING:



1. This guide contains important instructions you must follow to install, operate, and maintain the Express Plus DC fast-charging platform with Power Block model CPPB0001xxx and Power Link model CPPL0001xxx.
 2. **Read and follow all warnings and instructions before servicing, installing, or operating the ChargePoint® charging station.** Install and operate only as instructed. Failure to do so may lead to death, injury, or property damage, and will void the Limited Warranty.
 3. **Only use licensed professionals certified by ChargePoint for installation and service, adhere to all national and local building codes and standards, and ensure compliance with local building and electrical codes and standards, climate conditions, safety standards, and all applicable codes and ordinances that may apply.** Before installing the ChargePoint unit, consult with a licensed contractor, such as a licensed electrician, and use a trained installation expert to ensure compliance. Inspect the charging station for proper installation before use.
 4. **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 a grounded, metal, permanent wiring system, or an equipment grounding conductor shall be run with circuit conductors and connected to the equipment grounding terminal or lead on the Electric Vehicle Supply Equipment (EVSE). Connections to the EVSE shall comply with all applicable codes and ordinances.
 5. **Install the ChargePoint charging station on a concrete pad using a ChargePoint-approved method.** Failure to install on a surface that can support the full weight of the charging station can result in death, personal injury, or property damage. Inspect the charging station for proper installation before use.
 6. **This charging station is not suitable for use in Class 1 hazardous locations, such as near flammable, explosive, or combustible vapors or gases.**
 7. **Supervise children near this device.**
 8. **Do not put fingers into the electric vehicle connector (plug).**
 9. **Do not use this product if any cable is frayed, has broken insulation, or shows any other signs of damage.**
 10. **Do not use this product if the enclosure/exterior/housing or the electric vehicle connector is broken, cracked, or open, or shows any other signs of damage.**
 11. **Use only copper conductor wire rated for 90 °C (194 °F).**
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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.**

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 Used in This Document

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

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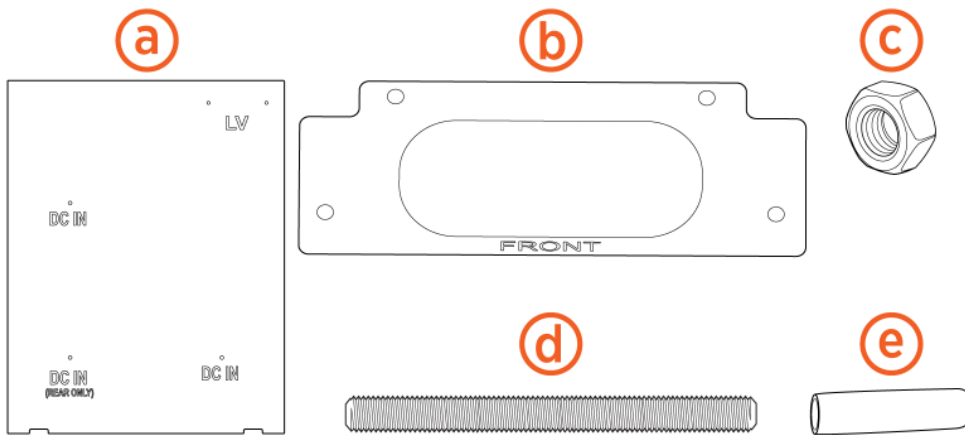
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Purpose of SCE Kit

The SCE kit is for Express Plus Power Link charging stations in situations where the site cannot run conductors underground or the site is not using stub-up entry through Concrete Mounting Template (CMT) embedded in a concrete pad. This SCE kit is only for the pedestal mount variant of Power Link.

Note: This document is a supplement to the Express Plus Installation Guide instructions related to Power Link. Make sure to follow all instructions in the Installation Guide except for the ones about CMT and stub-up entry of wiring.

SCE Kit Contents



- a. Surface Conduit Entry (SCE) template with pilot holes (1)
- b. Surface mount template (1) - for Power Link surface mounting
- c. M16 nuts (4) - for anchor bolts
- d. M16 anchor bolts (4) - for Power Link surface mounting
- e. Protective caps (4) - for anchor bolts

Tools and Materials Required

- Cut-resistant gloves
- Protective eyewear
- Marker
- Vacuum

For Power Link Surface Mounting

- Concrete drill with level feature recommended
- 25 mm (1 in) and 6 mm (1/4 in) concrete bits
- 24 mm (15/16 in) socket or open ended wrench
- 750 ml of epoxy with bonding strength of 11.7 MPa minimum, compressive strength of 82.7 MPa minimum, and tensile strength of 49.3 MPa minimum, such as Hilti HIT-RE 500 V3 (normal cure time), Hilti HY-200 (fast curing), or similar.
- Paper towels

Note: Different epoxy types have different cure times at various temperatures. Check local temperatures for the site in advance to help choose an appropriate epoxy.

For Surface Conduit Entry

- Surface wireways:

Wiring	Maximum Conduit Trade Size	Conduit Body Type / Maximum Size	Quantity
DC input conductors	103 mm (4 in)	LB Type / 103 mm (4 in)	1 or 2
48 V DC and Cat6 Shielded Twisted Pair (STP) Ethernet	21 mm (3/4 in)	LB Type / 21 mm (3/4 in)	1 or 2
Note: The conduit body type LBs must fit within the rear clearance (i.e., 610 mm or 24 in) as specified in the Express Plus Installation Guide.			



IMPORTANT: Refer to the site drawings to find out the wiring and conduit requirements.

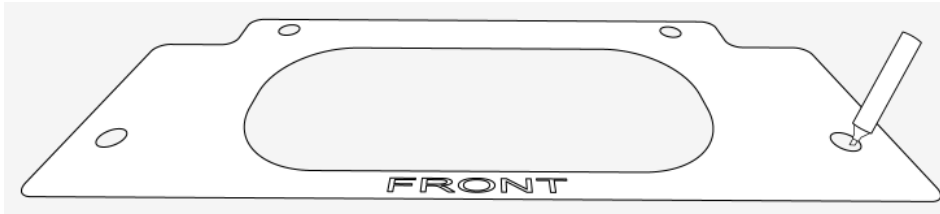
- Sheet metal hole saw with pilot bit for conduit sizes listed above
- Cable puller or fish tape
- Tools for cutting, assembling, and securing wireways

Install Anchor Bolts

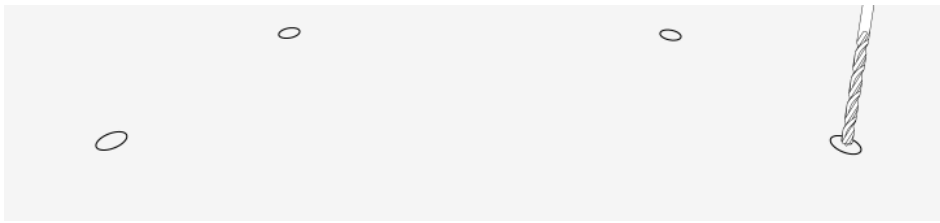
1. Refer to the site drawings and place the surface mount template at the proposed location.

Note: Make sure to leave enough clearance at the rear side (i.e., 610 mm or 24 in) for surface conduit entry and servicing.

2. Use a marker to mark the locations for the anchor bolts and remove the surface mount template.



3. Use the 6 mm (1/4 in) concrete drill bit to drill a pilot hole about 51 mm (2 in) deep at each marked location. The holes must be parallel to each other and perpendicular to the surface.



4. Use a vacuum to clean the dust from the holes.
5. Use the 25 mm (1 in) concrete drill bit to drill an anchor hole a minimum of 229 mm (9 in) deep. Anchor bolts must have 127 mm +/- 12.7 mm (5 in +/- 1/2 in) above surface.
6. Place the surface mount template on the surface again. Verify that the anchor holes align with the holes in the surface mount template.
7. Thread a washer and a nut onto each anchor bolt so that the measurement from the top of the nut to the top of the bolt is 76 mm (3 in).
8. Put a piece of tape above each nut to prevent it from floating upward when you rotate the bolt into the epoxy later.
9. Prepare the epoxy. Ensure the applicator is dispensing correctly mixed epoxy before beginning work (for example, the Hilti epoxy is white when unmixed and grey when mixed).
10. Fill the first anchor hole with epoxy until the epoxy is about 44.5 mm (1.75 in) from the top of the hole.

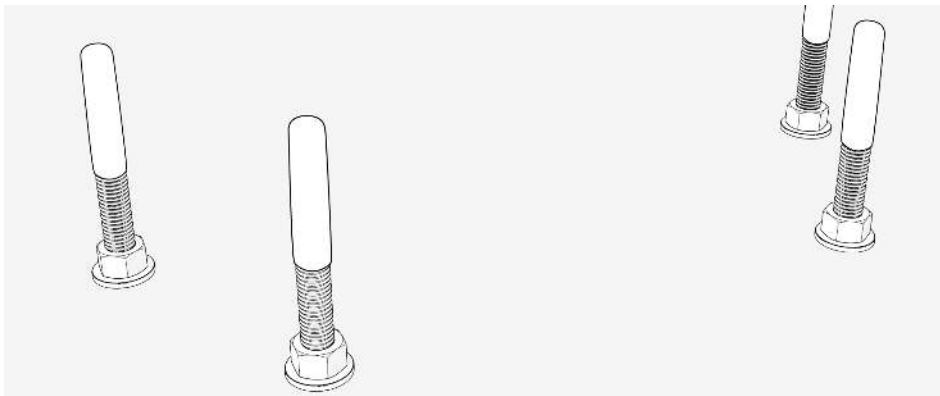


IMPORTANT: Continue immediately to the next step because the epoxy sets within about eight minutes.

11. Insert the anchor bolt into the hole. Rotate the anchor bolt as you insert it to draw epoxy into the threads. Take out the anchor bolt to see how close to the surface the epoxy has filled. If the epoxy is below surface level, add enough to fill the hole to surface level. Use paper towels to wipe off any excess.
12. Measure the nut distance from the top of each anchor bolt again and adjust if needed. These nuts help secure the surface mount template to the concrete and should be flush against the base when installed.



13. If the Power Link station will not be immediately installed, insert protective caps over the anchor bolts.

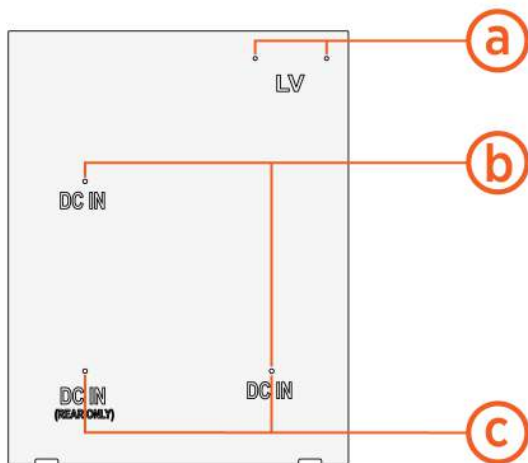


14. Use a level to check that each anchor bolt is plumb. If needed, adjust it while the epoxy is still setting.
15. Repeat the above epoxy steps for each of the other three anchor bolts.
16. Allow the epoxy to cure for the initial cure time listed on the epoxy before beginning to install Power Link.

Note: Refer to the Express Plus Installation Guide to mount and secure Power Link onto the anchor bolts. Skip the instructions related to stub-up entry of conduit into the Power Link cabinet and follow the surface conduit entry installation instructions provided in this document.

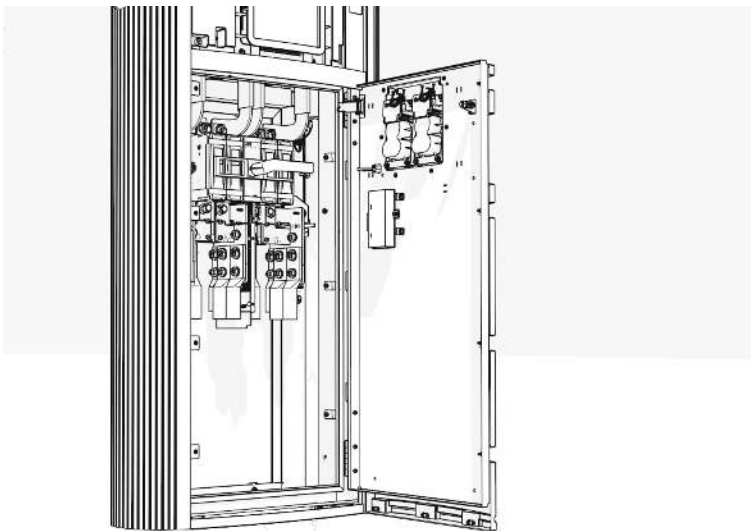
Install Surface Conduit Entry

1. Before you begin, refer to the site drawings to find out from which side of the Power Link the wiring must enter from:
 - If the wiring needs to enter from left or right side, the two diagonally placed DC IN holes (b) must be used.
 - If the wiring needs to enter straight from rear side, the two lower DC IN holes (c) must be used.



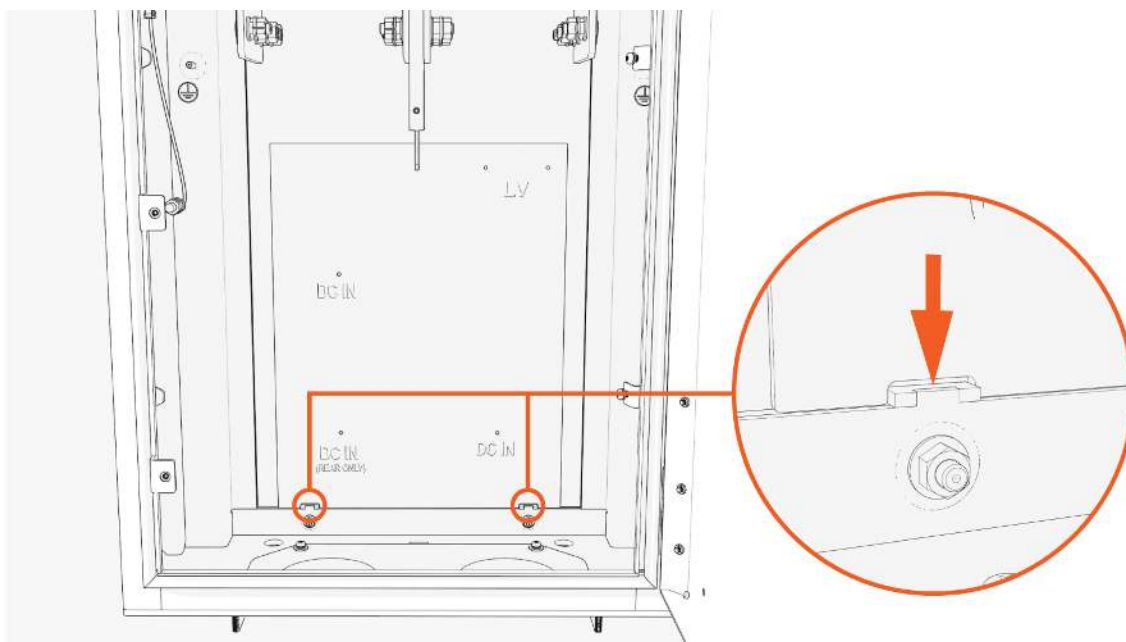
- a. Pilot holes for 48 V DC and Ethernet conduit
- b. Pilot holes for DC input conduit entering from left or right side
- c. Pilot holes for DC input conduit entering straight from rear side

2. After mounting and securing Power Link onto the anchor bolts, open the lower door to access the lower cabinet (uninstall safety panel if present). See Installation Guide.

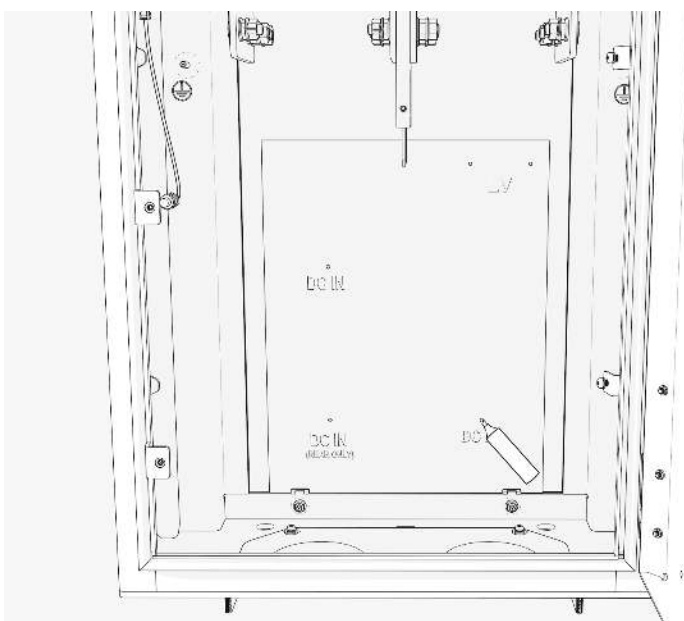


3. Place the SCE template on the two lower tabs and lay it on the rear cover.

Note: Make sure to hold the SCE template firmly on the rear cover.

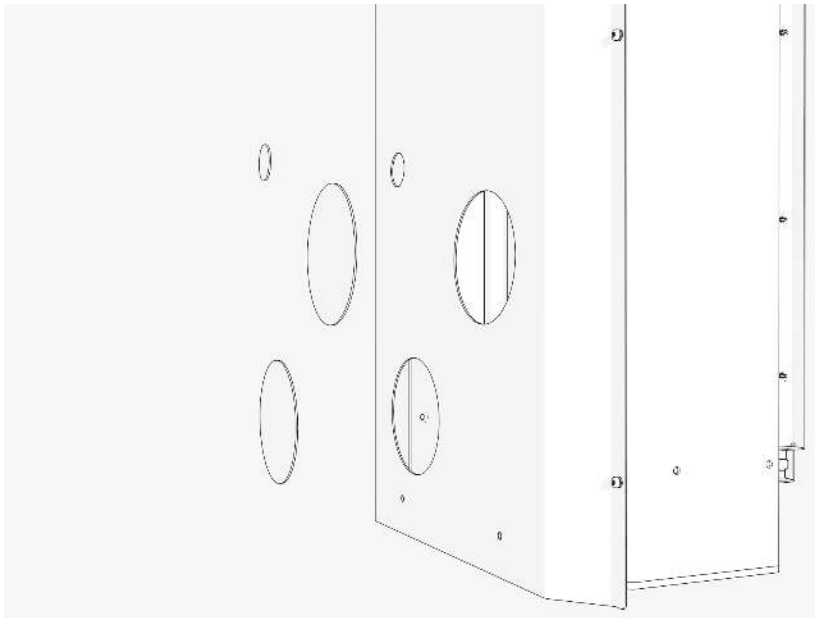


4. Use a marker to mark the pilot hole locations on the rear cover and remove the SCE template. See instructions given on page [\(9\)](#) to find out which pilot hole locations to mark.

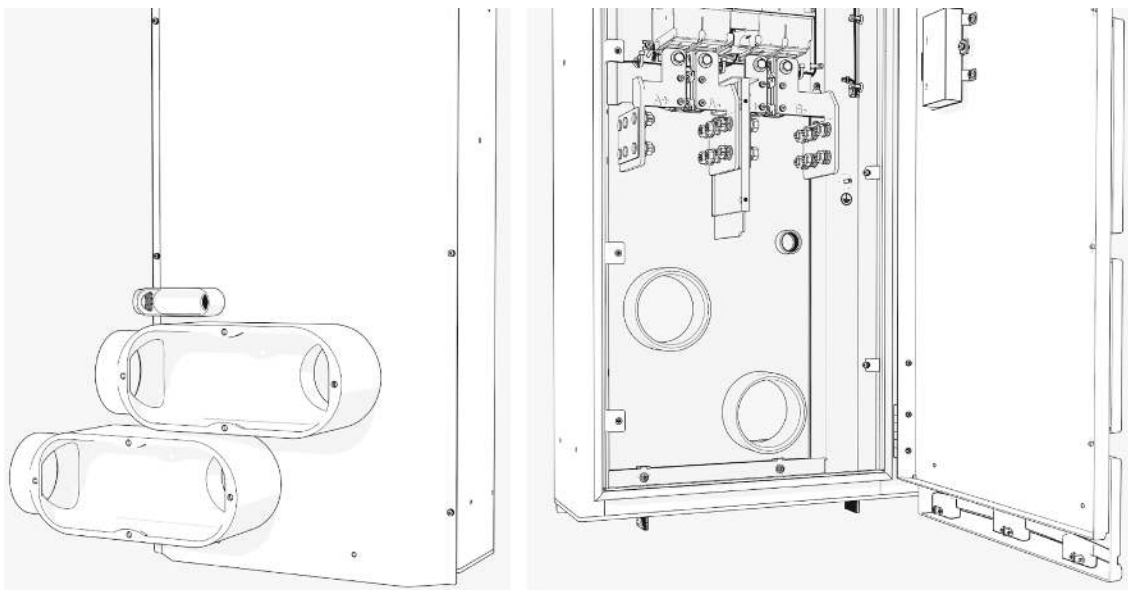


5. Use a suitable hole saw, position the hole saw's pilot bit on the marked location, and drill a hole into the rear cover. Repeat for other marked locations.

Note: The right side conduit entry illustrations shown below are for demonstration purposes only. Make sure to drill holes at suitable locations according to the instructions given on page [\(9\)](#).



6. Vacuum all metal shavings.
7. Install suitable conduit bodies into the holes to pull wiring into Power Link.



Note: Refer to the Express Plus Installation Guide to route and connect wiring inside the Power Link, and use the duct seal compound supplied with the Power Link to seal around each conduit inside the Power Link.

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.

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