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Power Link 2000

Express Plus DC Fast Charging Platform

Installation Guide for Overhead-Mount



IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

This manual contains important instructions for ChargePoint® products that shall be followed during installation, operation and maintenance of each product.

WARNING:

- Read and follow all warnings and instructions before servicing, installing, or operating the ChargePoint® product. Install and operate 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 product and adhere to all national and local building codes and standards. Before installing the ChargePoint product, 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 product for proper installation before use.
- 3. Always ground the ChargePoint product. A touch current of >3.5 mA AC RMS is possible in case of a fault condition of loss of electrical continuity of the earthing conductor. Failure to ground the product can lead to risk of electric shock. The product 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.



- 4. Install the ChargePoint product using a ChargePoint-approved method. Failure to install on a surface that can support the full weight of the product can result in death, personal injury, or property damage. Inspect the product for proper installation before use.
- 5. The product is not suitable for use in Class 1 hazardous locations, such as near flammable, explosive, or combustible vapors or gases.
- 6. Supervise children near this device.
- 7. Do not put fingers into the electric vehicle connector or connector adapter. Do not touch fingers to charging rails.
- 8. Do not use this product if any cable is frayed, has broken insulation, or shows any other signs of damage.
- 9. Do not use this product if the enclosure, the flexible output cable, the vehicle inlet, the electric vehicle connector, or the electric vehicle connector adapter is broken, cracked, open, or shows any other signs of damage. Do not use this product if internal parts are accessible, including wiring.
- 10. Wire and wire terminal information are provided in the ChargePoint product Site Design Guide and Installation Guide.
- 11. Torques for installation of wire terminals are provided in the ChargePoint product Installation Guide.
- 12. The ChargePoint product maximum operating temperature is 50 °C (122 °F).



13. Do not use an electric vehicle connector adapter with any charger or EV that is capable of exceeding the adapter's rated voltage of current capacity. Some EVs and EVSE combinations are capable of multiple voltages or limited durations of current overloading designed for normal EVSE-to-EV connections. Use of an electric vehicle connector adapter in these situations could result in unsafe conditions such as fire, burns, or exposure of high voltage.



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

Applicable to NA - Do not dispose of as part of unsorted domestic waste. Inquire with local authorities regarding proper disposal. Product materials are recyclable as marked.



Applicable to EU - 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 Charge-point Product Reference Documentation.

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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



NOTE: Helpful information to facilitate 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.

Revision History

This page provides a summary of revisions made, listing the month and year of each update along with a brief description of the changes made.

Month & Year	Version Number	Description
July, 2025	v1	Included additional safety instructions in the section 'IMPORTANT SAFETY INSTRUCTIONS'.

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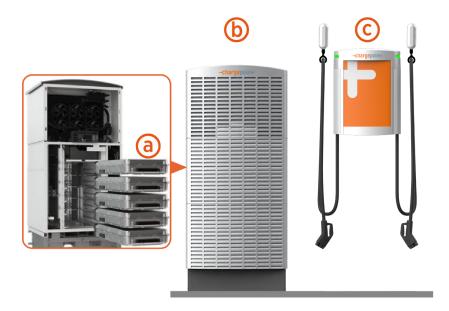
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Introduction 1

This chapter provides an introduction to the ChargePoint® Express Plus Power Link 2000, in preparation for product installation.

Express Plus Components

Express Plus is a scalable DC fast charging platform that is based on the modular building blocks outlined below.

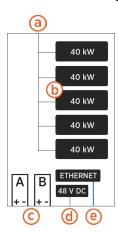


- (a) Power Module: Self-contained AC to DC power conversion system that operates an output of between 100 and 1000 V and delivers up to 40 kW of power.
- (b) Power Block: Power cabinet that houses up to five Power Modules and supplies DC output power to Power Link 2000s. Each Power Block can output up to 200 kW of power.
- (c) Power Link 2000: Dispenser that delivers DC power to EVs through flexible, lightweight charging cables equipped with industry standard connectors such as CCS1 and CCS2. The Power Link 2000 can accommodate up to two charging cables to charge two electric vehicles simultaneously or sequentially. Built-in cellular networking enables remote management via the ChargePoint Platform Dashboard.

Express Plus System Overview

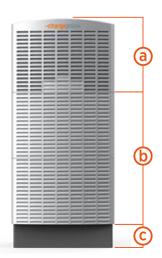
Power Block

Power Block block diagram:



- (a) Three phase AC power input
- (b) Configurable with up to five 40 kW Power Modules for a maximum total output of 200 kW
- (c) Two available HV DC power outputs (A and B)
- (d) 48 V DC power output
- (e) Ethernet output

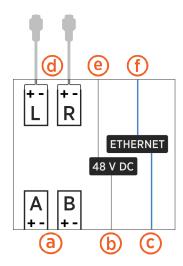
The Power Block is an enclosure structured with an upper and lower enclosure, stacked on a pedestal:



- (a) Upper enclosure: Auxiliary power supply and temperature management components
- (b) Lower enclosure: Bay for Power Modules and bus bars to land all input and output cables
- (c) Pedestal: Secures the Power Block and provides access for either stub-up or surface mount installations on a concrete pad

Power Link 2000

Power Link 2000 block diagram:



- (a) Single or dual HV DC power paths (A and B)
- (b) 48 V DC power input
- (c) Ethernet input
- (d) Single or dual HV DC charging cable outputs (L and R)
- (e) 48 V DC power output
- (f) Ethernet output

The Power Link 2000 is a vertical enclosure that is available in the following variants:

• Pedestal-Mount Power Link 2000

This enclosure is designed for mount on a concrete ground surface and is equipped with charging cable holsters and an interactive display. The enclosure is available with single or dual outputs.



Wall-Mount Power Link 2000

This enclosure is designed for mount on a wall or other vertical-standing structure. It is equipped with cable holsters and an interactive display. The enclosure is available with single or dual outputs.



· Overhead-Mount Power Link 2000

This enclosure is designed for mount on a wall or overhead structure (such as on a gantry or from a ceiling structure). The enclosure is available with single or dual outputs.



NOTE:



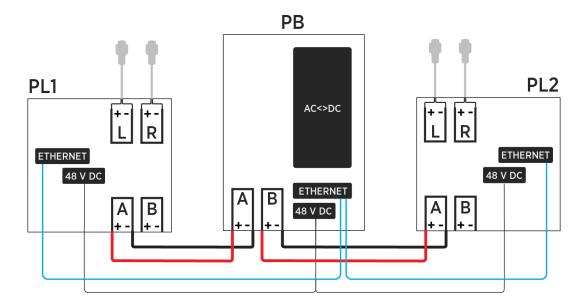
This guide covers installation of overhead-mount Power Link 2000s. For installation of pedestal-mount Power Link 2000s, see the Express Plus Power Link 2000 Variation A Pedestal-Mount Installation Guide or the Express Plus Power Link 2000 Variation B Pedestal-Mount Installation Guide.

Power Block to Power Link 2000 Architectures

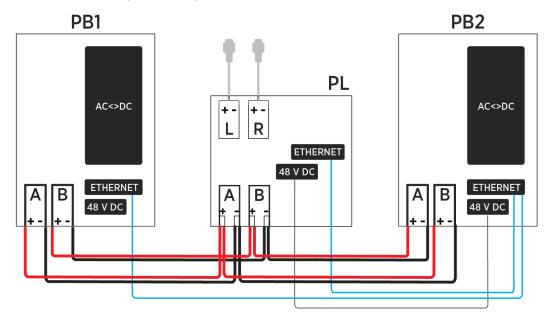
Express Plus is a highly modular system wherein Power Blocks and Power Link 2000s can be interconnected in many configurations to meet various charging needs, from simultaneous charging of two vehicles at up to 600 kW by a single station to sequential charging of up to 12 vehicles.

The DC output of the Power Block is the DC input of the Power Link 2000. Each Power Block has two HV DC outputs that can be fed to a single Power Link 2000 or to two different Power Link 2000s. A simplified block

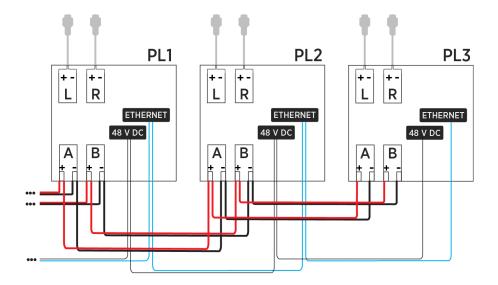
diagram of a single Power Block connected to two Power Link 2000s is shown below. The Power Block also feeds 48 V DC power and Ethernet connectivity to the Power Link 2000s.



In turn, the Power Link 2000 accepts high voltage DC input from up to six Power Blocks. A simplified block diagram of a Power Link 2000 powered by two Power Blocks is shown below.



The high voltage DC output, Ethernet, and 48 V DC power output from Power Block(s) can be connected from Power Link 2000 to Power Link 2000, enabling higher port counts in specific sequential charging configurations.





IMPORTANT: The architectures shown above demonstrate only a few of the many supported by Express Plus. The actual architecture for each site will vary depending on the number of stations, the charging capacity required at each charging station, simultaneous or sequential charging requirements, and other criteria. Contact a ChargePoint representative for the ChargePoint-approved wiring architecture for your specific project. Non-approved wiring between Power Blocks and Power Link 2000s may not enable Express Plus to function as expected.

For full specifications and certifications, refer to the Express Plus With Power Link 2000 Datasheet.

Wall and Overhead-Mount Power Link 2000 Configurations

Charging Cables

Wall and overhead-mount Power Link 2000s can be installed with one or two non-liquid cooled cables (non-LCC). They do not support liquid-cooled cables (LCC).

Single Non-LCC

Dual Non-LCC





Cable Management Kit (CMK)

• Wall-Mount:

A wall-mount Power Link 2000 can be installed with a standard CMK to manage standard length (5.8 m or 19 ft) charging cables or with a tall CMK to manage medium length (7.6 m or 25 ft) charging cables.

Standard CMK

Tall CMK





• Overhead-Mount:

An overhead-mount Power Link 2000 can be installed with an overhead CMK to manage medium length (7.6 m or 25 ft) charging cables.

Overhead CMK



Wire Entry

The wires enter into wall and overhead-mount Power Link 2000 from the bottom side, through conduits or armored cables laid above ground.

Express Plus Guides

Access ChargePoint documents at ChargePoint Product Reference Documentation.

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
Concrete Mounting Template Guide	Instructions to embed the charging station template in a concrete pad with anchor bolts and conduit placement (these may also be included in the Site Design Guide)	Site construction contractor
Surface Conduit Entry Kit Guide	Instructions for sites where conduit cannot be run underground	Installer
Construction Signoff Form	Checklists used by contractors to ensure the site is correctly completed and ready	Site construction contractor

Document	Content	Primary Audiences	
	for product installation		
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	

Questions

For assistance, go to $\underline{\text{chargepoint.com/support}}$ and contact technical support using the appropriate region-specific number.

Prepare for Installation 2

Check Site Readiness

To check site readiness, complete this checklist before you install Power Link 2000.

Expres	Express Plus Power Link 2000 Site Readiness Checklist				
1.	Power Blocks are installed at locations proposed in the site drawings.				
2.	The mounting surface meets the mounting specifications given in the Express Plus Power Link 2000 Site Design Guide and was inspected and approved by a structural engineer for the dimensions and weights (as given in the Site Design Guide) of the Power Link 2000 and its related components such as charging cable(s) and Cable Management Kit (CMK).				
3.	Wires and conduits meet the requirements given in the site drawings.				
4.	The electrical equipment is installed and labeled in accordance with the National Electrical Code (NEC) and all applicable requirements of the serving electric utility company and the authority having jurisdiction.				
5.	The installation site meets the drainage, ventilation guidelines, and clearances given in the Express Plus Power Link 2000 Site Design Guide.				
6.	Sufficient space is available to use a forklift or other lifting equipment, unpack, remove packing materials, and allow two people to freely move throughout the site.				

Check Electrical Readiness

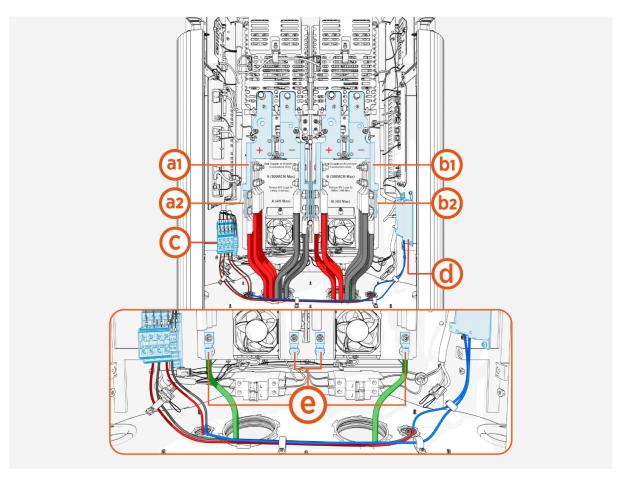
Refer to the Express Plus With Power Link 2000 Datasheet and the Express Plus Power Link 2000 Site Design Guide for electrical input and output specifications.

Understand Wire Landing Locations

NOTE:



Depending on configuration, wall and overhead-mount Power Link 2000s have one or two HV DC Power Paths, named A and B. Each Power Path has two wire landings, an upper landing and a lower landing. Power Link 2000s with a single charging cable are configured with Power Path B landings only.



- (a1) HV DC Power Path A, upper landing
- (a2) HV DC Power Path A, lower landing
- (b1) HV DC Power Path B, upper landing
- (b2) HV DC Power Path B, lower landing
- (c) LV DC
- (d) Ethernet
- (e) Ground

Bring These Tools and Resources

Installing the Power Link 2000 requires at least two people. Additionally, the installer must bring the following tools and materials. These are not provided by ChargePoint.

CAUTION:

Comply with these guidelines to prevent component damage.



- Use tools suitable to torque metric fasteners. All fasteners used on the Power Link 2000 are in metric sizes.
- Use the given torque values to tighten the fasteners.
- Ensure that the tools such as torque tool, multimeter, and Ethernet tester are calibrated.

Tools and Materials



Forklift with anti-slip forks

- Rated for ≥ 680 kg (1500 lb)
- · Fork specifications:
 - Width = 102-127 mm (4-5 in)
 - Thickness \leq 57 mm (2.25 in)
- If your site has height constraints, use alternative equipment



Stepladder or personnel lift (as needed to access the Power Link 2000at the mount location)



Industrial vacuum cleaner



Paper towel roll



Hard hat



Cut-resistant gloves



Safety glasses



Cable ties



Cable puller or fish tape



Measuring tape or other tool to measure linear dimensions



Level



Lockout/Tagout equipment



Multimeter (meter and probes rated for 1000 V)



Ethernet tester such as a Klein Tools VDV526-052 VDV LAN Scout Jr. Tester or similar



Conduit cutter (refer to site plans for conduit sizes)



Box cutter



Wire cutters



Lug crimping tool and die



Torque wrench



Hex socket set (7 mm, 10 mm, 17 mm)



Hex wrench set

Torque screwdriver

Wire strippers



Torx screwdriver (T20, T30)



T25 Security screwdriver



Flathead screwdriver set, including 2.5 mm and 3.5 mm tip for terminal blocks



Phillips head screwdriver set

Ethernet (RJ45) connector crimping tool



Torque paint pen



Permanent marker



Anti-oxidant joint compound (to make gastight joint between wire and lug) and wire pulling lubricant



Dielectric grease



Smartphone with:

Internet connectivity



ChargePoint installer login credentials



 QR code scanner (usually built into the camera app)



ChargePointInstaller app

Wires and Terminations Required for Site

IMPORTANT:

- For AC and DC high voltage (HV), high current wiring, use copper or aluminum wires rated for 90 °C (194 °F).
 - AC high current wires can be THHN/THHW/THW-2/THWN-2 based on site condition (dry or wet) and rated for 600 V.



- DC HV wires can be XHHW/XHHW-2 based on site condition (dry or wet) and rated for 1000 V.
- For low voltage (LV) DC wiring, use only copper wires (XHHW/XHHW-2 based on site condition, dry or wet) rated for 1000 V and 75 °C (167 °F).
- Use copper lugs for copper wires and aluminum lugs for aluminum wires.
 The lugs must be nickel, tin, or silver plated compression (not mechanical) lugs. Nickel-plated lugs installed with dielectric grease is recommended.



IMPORTANT: Following are wire specifications for the Power Link 2000, including the maximum quantity and size that the wire terminals can accommodate. All sizing assumes a maximum ambient temperature of 50 °C (122 °F). Where the maximum wire size is listed, the actual wire quantity and size must be chosen based on site-specific wiring requirements and in accordance with the maximum allowed conduit filling rate per local code.

Wire	Quantity	Size	Termination
HV DC Power Paths A and B (max. 500 A per	Max. 12 wires per Power Path (three wires per pole on each landing)	Upper landings: Max. 150 mm ² (300 MCM)* Lower landings:	Lug: Long barrel and tongue with two holes spaced 44.5 mm (1.75 in) apart and sized for M12 studs. Max. lug tongue width: 31 mm (1.25 in) for upper landings, 25.9 mm (1 in) for lower landings.
landing)		Max. 120 mm ² (4/0 AWG)	Aluminum lug max. tongue thickness: 10 mm (0.4 in) for upper landings, 5 mm (0.2 in) for lower landing.
Ground	Max. 6 wires (one per Power Block)	Refer to the local code for size; max. 50 mm ² (1/0 AWG)	Lug: Short barrel and tongue with single hole, sized for M6 stud.
LV DC	Max. 8 wires (four wire pairs; each pair has one wire per pole)	16 mm ² (6 AWG)	Stripped wire
Ethernet	Max. 4 cables	Outdoor-rated Cat6 STP**	RJ45 connector
Soft shutdown switch***	2 wires	2.5 mm ² (14 AWG)	Stripped wire



NOTE:

* If utilizing both upper and lower landings, the maximum HV DC wire size is 120 mm² (4/0 AWG).



NOTE:

**The required Ethernet cable type depends upon the cable run length. See the Express Plus Power Link 2000 Site Design Guidefor details.



NOTE:

***Soft shutdown switch is an optional feature.

Tightening Torque

Component (xFastener Quantity)	Component Material	Fastener	Tool	Torque	
Charging cable bus bar safety cover (x1 or x2)	Plastic	M4	T20 Torx	1.7 Nm (15 in-lb)	
Top cap, front (x2)	Plastic	M4	T25 Security	,	
CMK tetherball (x5)	Metal	M4	T20 Torx	2.8 Nm (25 in-lb)	
Top cap, rear (x2)	Plastic	M5	T25 Security	2.6 MIII (25 III-ID)	
Charging cable assembly (x4 or x8)	Metal	M5	T25 Security		
Gland plate (x6)	Metal	M5	T25 Security		
Ethernet to USB (x2)	Metal	M5	8 mm socket	4.5 Nm (40 in-lb)	
Side panels (x2 or x4)	Metal	M5	T25 Security		
Bottom crown (x3)	Metal	M5	T25 Security		
Ground wire lug nut (up to x4)	Metal	M6	10 mm socket		
Overhead mounting bracket	Metal	M6	T30 Torx		
Charging cable HV DC wire lug nuts (x8 or x16)	Metal	M6	10 mm socket	5.6 Nm (50 in-lb)	
Charging cable ground wire lug nut (x1 or x2)	Metal	M6	10 mm socket		
Overhead CMK screws (x4)	Metal	M6	T25 Security	3.4 Nm (30 in-lb)	
Overhead CMK nuts (x4)	Metal	M8	13 mm socket	12.2 Nm (108 in-lb)	
Sequential charging bus bar (x4)	Metal	M8	13 mm socket		
HV DC wire lug nuts (up to x48)	Metal	M10	17 mm socket	19 Nm (14 ft-lb)	
LV wire terminal block set screws (up to x8)			3.5 mm flathead screwdriver	1.5 Nm (13.3 in-lb)	
Soft shutdown terminal screws (x2)			2.5 mm flathead screwdriver	0.6 Nm (5.3 in-lb)	

Power Link 2000 Packages



WARNING: The crate is heavy and can cause injury or death if dropped. Do not stand or walk beneath the crate while it is being lifted. Take precautions against the crate tipping or sliding.





CAUTION: Always transport and store components in their original packaging. Use appropriate lifting equipment (forklift or crane, lifting straps, and any corresponding attachments and accessories). Ensure the load rating of all lifting equipment is adequate for the weight of the crated components.



CAUTION: Keep components in original packaging, free of moisture, and protected from damage until you install or service them at the site. Store all shipments of components in a dry covered location and protect from moisture.



CAUTION:

To protect the charging cables from damage, keep them wrapped throughout the installation process.



IMPORTANT:

Leave components in the shipping crate until needed. When removing, protect them from damage (such as scratches) by placing them flat on a blanket or tarp, face up. Do not stand up cover panels, as they may be knocked or blown over. Cover charging connectors to prevent damage or ingress.



IMPORTANT: Keep components out of direct sunlight in a cool area until you install them.

Package Configurations, Dimensions, and Weights

Power Link 2000ships with the charging station enclosure, mount kit, charging cable, and cable management kit (CMK) each placed in separate packages.

Package	Variant	Dimensions (L x W x H)	Max. Weight
Power Link 2000 (enclosure only)	-	1.52 x 1.02 x 0.64 m (60 x 40 x 25 in)	159 kg (350 lbs)
Wall mount kit	-	0.49 x 0.29 x .01 m (19.13 x 11.38 x 4.75 in)	9 kg (20 lbs)
Charging cable	Standard length (5.8 m or 19 ft)	0.72 x 0.58 x 0.22 m (28.45 x 22.74 x 8.75 in)	23 kg (50 lbs)
	Medium length (7.6 m or 25 ft)		32 kg (70 lbs)
CMK	Standard	1.12 x 0.65 x 0.24 m (44.13 x 25.75 x 9.5 in)	28 kg (60 lbs)
	Tall	1.87 x 0.35 x 0.40 m (73.50 x 14.75 x 16.13 in)	41 kg (90 lbs)
	Overhead CMK	0.45 x 0.40 x 0.18 m (17.50 x 15.88 x 7 in)	12 kg (25 lbs)

Additional Kits

Package	Variant	Dimensions (L x W x H)	Max. Weight
Ethernet to USB Kit	-	0.3 x 0.39 x 0.22 m (11.81 x 15.35 x 8.66 in)	1.36 kg (3 lb)
Card Reader Kit	-	0.89 x 0.63 x 0.29 m (35.13 x 24.75 x 11.38 in)	0.5 kg (1 lb)
Sequential Charging Kit	-	0.27 x 0.18 x 0.05 m (10.6 x 7.0 x 1.8 in)	2.3 kg (5 lb)

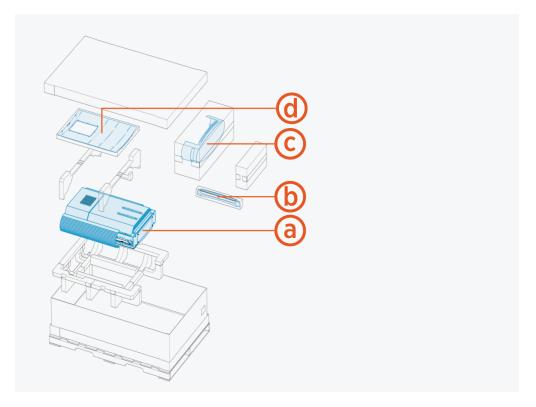
Power Link 2000 Package Contents

Check the Power Link 2000 package for the following components:



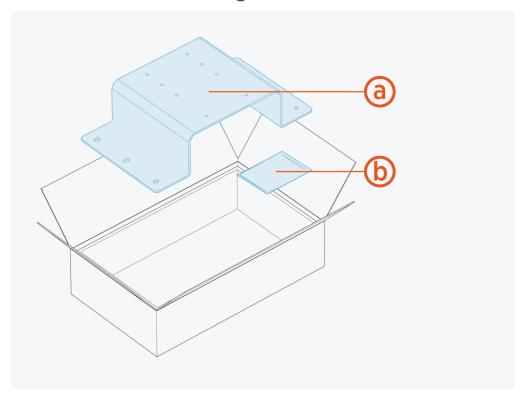
NOTE:

For any missing component, contact ChargePoint support.



- (a) Power Link 2000 assembly
- (b) Bottom crown
- (c) Top cap
- (d) Front cover

Wall Mount Kit Package



- (a) Wall mount bracket
- (b) Hardware bag with T30 M6 screws (x8) for attaching bracket to Power Link 2000

Disconnect Power

To disconnect power, complete the following steps:

DANGER: RISK OF SHOCK

- Before any procedure, disconnect the power.
- Follow local code and site lockout/tagout procedure to de-energize the station.



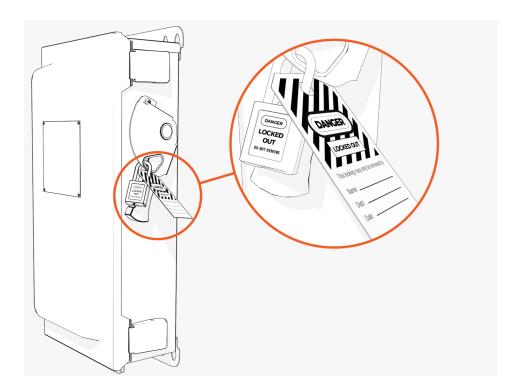
- Wait for energy to dissipate (approximately five minutes).
- Keep power off until all covers and panels are reinstalled and the work is complete.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS INJURY, LOSS OF LIFE, OR PROPERTY DAMAGE.

1. Disconnect power at the site electrical panel.



NOTE: Follow standard practice and local code to de-energize the applicable circuit and lock out/tag out the disconnect before proceeding.



2. Use a multimeter to test that the unit is de-energized.

IMPORTANT:



Do not reconnect the power after completing the installation (<u>after installing the covers</u>). An authorized commissioning partner will commission, power on, pinpoint, and configure Power Link 2000 after installation.

Install Power Link 2000 3

To install Power Link 2000, complete the following set of steps:



WARNING: Do not install or service the charging station in inclement weather. If you work in snow, rain, or wind, you must use a weather-proof shelter that covers all boxes and components.

CAUTION: Warranty Limitation



- If the charging station is not installed, commissioned, or serviced by a ChargePoint certified technician using a ChargePoint-approved method, it is excluded from all ChargePoint and other warranties and ChargePoint is not responsible.
- You must be a licensed electrician and complete training at <u>chargepoint.com/installers</u> to become ChargePoint certified and to access ChargePoint's web-based installer tools or ChargePoint Installer app.



CAUTION: Use low torque settings when working with power tools during installation or servicing. Over-torquing can damage the equipment.



CAUTION: While installing fasteners inside a product enclosure, make sure not to drop the fasteners inside conduit openings. You may use conduit caps or covers to temporarily cover the conduit openings.



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



IMPORTANT: If the site has height constraints for installation, contact ChargePoint to get instructions and clearances that you will need for the



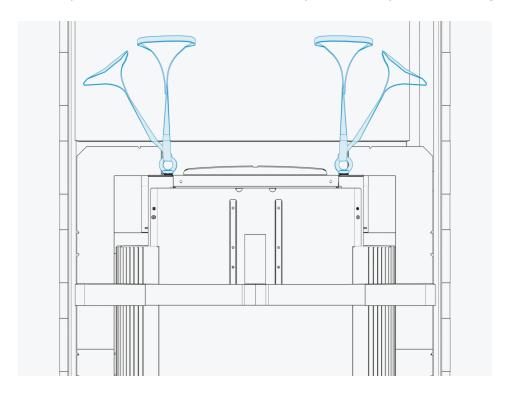
modified process.

Alternatively, you may use a forklift bracket kit, or a crane with lifting shackles and a spreader bar (constraints may differ among sites).

Lift and Open Power Link 2000 Assembly

To lift and open Power Link 2000 assembly, complete the following steps:

- 1. Open and unpack the Power Link 2000 package and wall mount kit package (see Power Link 2000 packages).
- 2. At the top of the Power Link 2000, locate four preinstalled eye bolt and lifting straps.

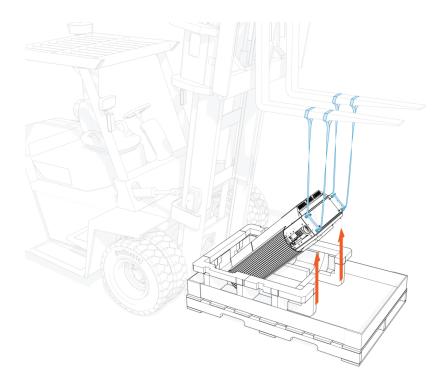


3. Use forklift to lift the Power Link 2000 by the lifting straps to eye level.

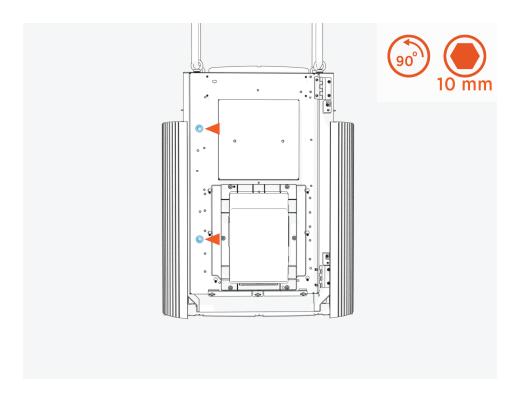


IMPORTANT:

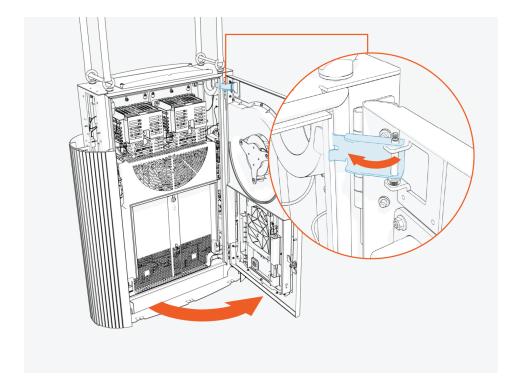
Ensure the lifting straps are secured to the forklift tines with c-clamps or similar.



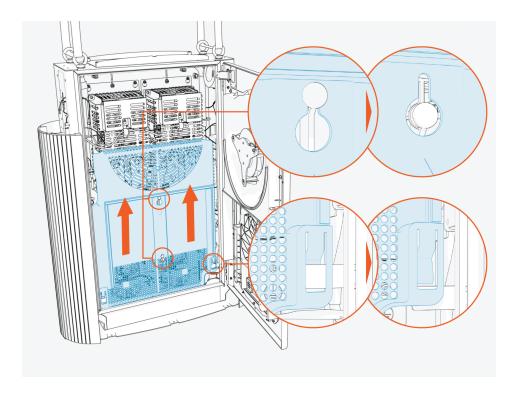
4. Quarter turn the door latches (x2) to unlock the door.



5. Open the door and engage the door stopper.



6. Slide the bus bar safety cover up to remove from hooks (x2) and latches (x2).



Prepare Gland Plate

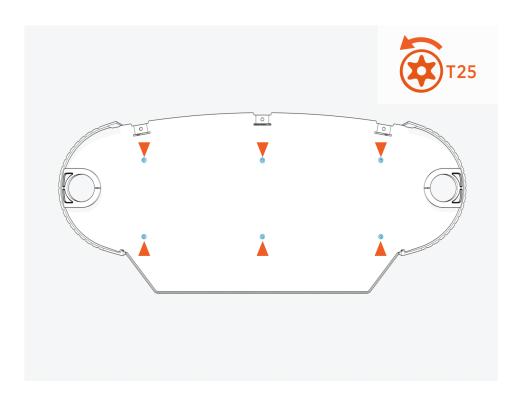
To prepare the gland plate, complete the following steps:

1. Uninstall the screws (x6) from the Power Link 2000 bottom gland plate. Save screws for later reinstall.

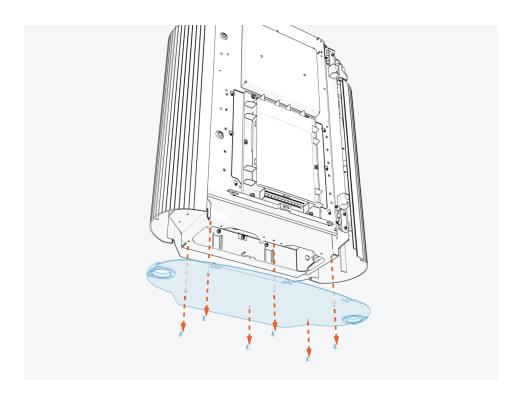
Tr



The bottom gland plate may have two charging cable exits (as shown below) or only one charging cable exit, depending on the Power Link 2000 configuration.



2. Remove the gland plate.

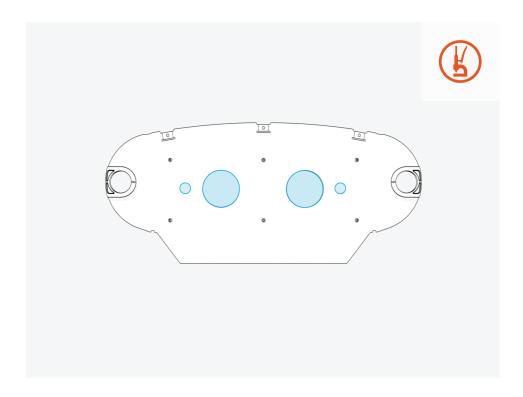


3. Consult the site plan to confirm the number and size of conduits that will attach to the Power Link 2000 gland plate. Use a hydraulic hole punch to create the needed conduit openings.

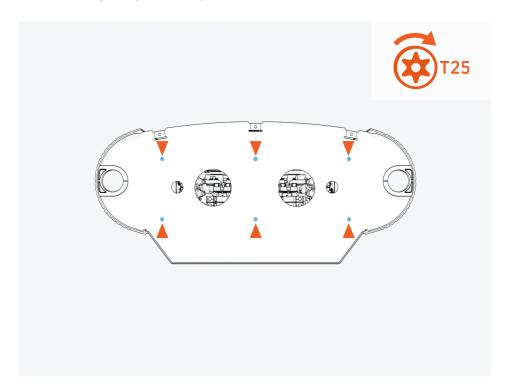


NOTE

Illustrations in this guide depict a sample conduit configuration. Actual configuration will vary by site.



4. Reinstall the gland plate. Torque screws (x6) to **4.5 Nm (40 in-lb)**.



Mount Power Link 2000

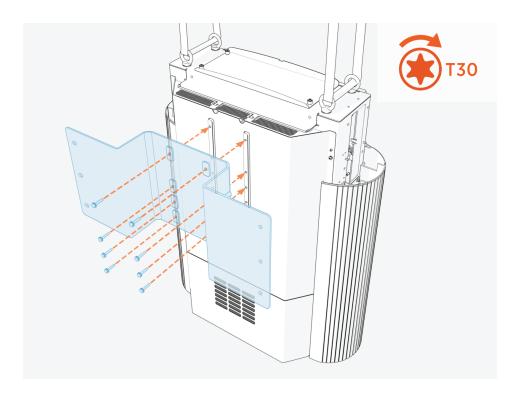
To mount the Power Link 2000, complete the following steps:

1. Attach the mounting bracket to the back of the Power Link 2000 with M6 screws (x8). Torque to **5.6 Nm (50 in-lb)**.



WARNING:

After attaching the bracket, double-check the fasteners to ensure they are torqued to the correct value.

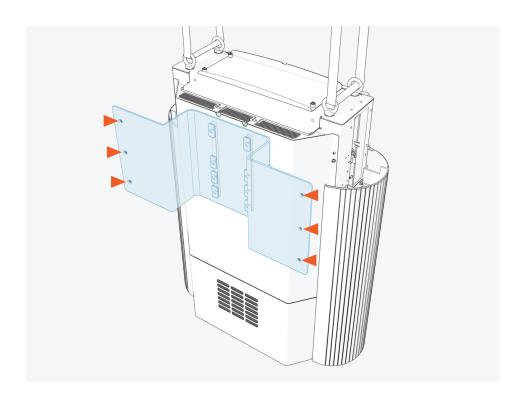


2. If installing the Power Link 2000 in a space where the overhead clearance does not meet the minimum requirement (305 mm or 12 in from top of Power Link 2000), install forklift brackets. See Appendix: Install Forklift Brackets.

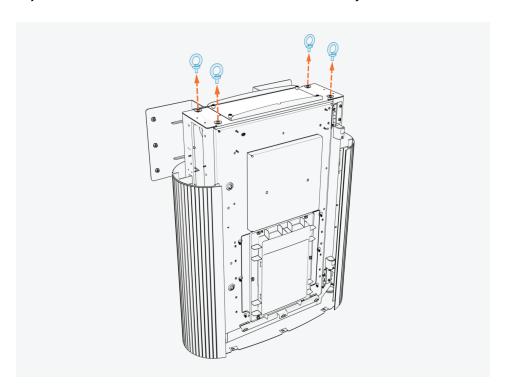
3. Lift the Power Link 2000 to the installation location and mount the enclosure with fasteners (x6). Use fasteners specified by the site plan. Torque to the specification indicated by the site plan.



IMPORTANT:Contractor provides the fasteners. Site plans must specify fasteners appropriate for the mounting surface and rated to secure the weight of the Power Link 2000. After mounting the enclosure, double-check the fasteners to ensure they are torqued to the correct value.



4. Release the lifting straps and remove the eye bolts (x4) and rubber washers (x4). Use either an adjustable wrench or screwdriver shaft to loosen the eye bolts.

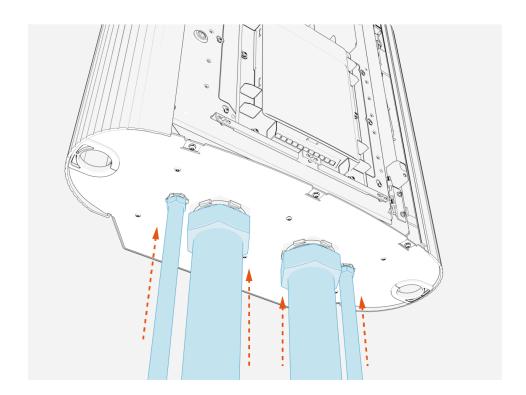


5. Connect conduits at the bottom gland plate.



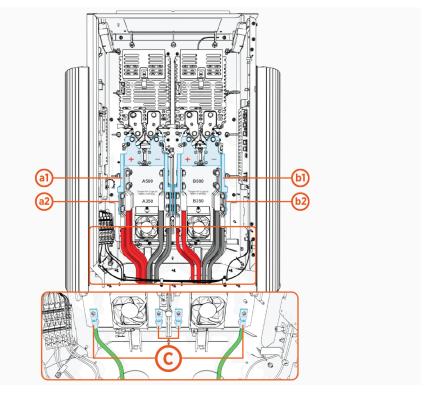
NOTE:

Illustrations in this guide depict a sample conduit configuration. Actual configuration will vary by site.



Plan for HV DC Wire Connect

The physical locations for landing HV DC and high power ground wires are shown below.



- (a1) Path A, upper landing
- (a2) Path A, lower landing
- (b1) Path B, upper landing
- (b2) Path B, lower landing
- (c) Ground

Depending on its configuration, a Power Link 2000 with LCC will have one or two independent HV DC power paths, A and B. Power Link 2000 with LCCs with a single charging cable are configured with Power Path B only.



IMPORTANT: The Power Block has two HV DC outputs, also named A and B. Although the Power Link 2000 with LCC power paths and Power Block outputs are named alike, it does not mean that Output A of a Power Block must connect to Power Path A of a Power Link 2000 with LCC. Output A of a Power Block may connect to either Power Path A or B of a Power Link 2000 with LCC. Likewise, Output B of a Power Block may connect to either Power Path A or B of a Power Link 2000 with LCC. The A and B designations serve only to identify separate power paths and outputs in each product.

The upper and lower landings may be used to connect a single power path to multiple Express Plus products in an orderly manner. For example:

- In some Express Plus architectures, a single Power Link 2000 with LCC power path receives HV DC
 input from two separate Power Blocks. This may be achieved by connecting wires from one Power
 Block at one landing level and connecting wires from the other Power Block at the other landing level.
- In some Express Plus architectures, a single Power Link 2000 with LCC power path receives HV DC input from a Power Block and also provides HV DC output to another Power Link 2000 with LCC. This may be achieved by connecting wires from the Power Block at one landing level and connecting wires going to the other Power Link 2000 with LCC at the other landing level.

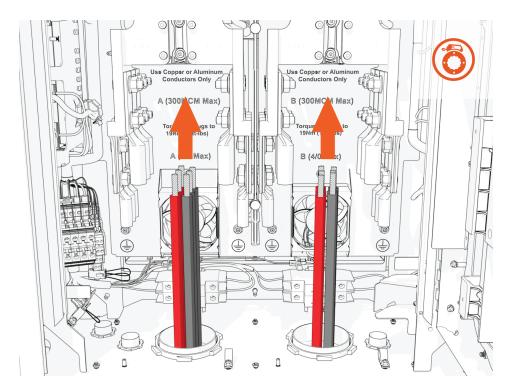
How exactly to make connections within a cluster of Power Block(s) and Power Link 2000 with LCC(s) is determined by the Express Plus architecture chosen for the site. Use the site plan single line diagram to understand and plan how to land the HV DC wires on the Power Link 2000 with LCC terminals. If you require further assistance in this matter, go to chargepoint.com/support and find your region's technical support number.

Pull, Cut, and Connect Wires

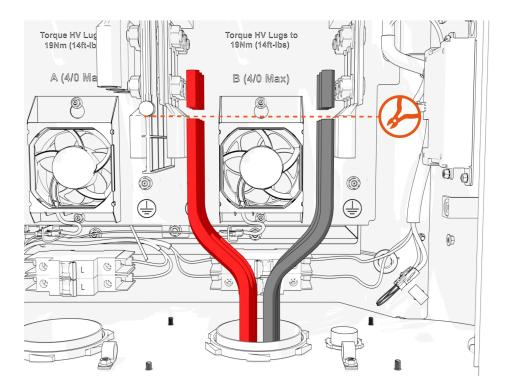
To pull, cut and connect wires, complete the following steps:

HV DC Wires

- 1. Label the HV DC and high power ground wires at both ends.
- 2. Pull wires through the conduits. See How to Pull HV DC Wires.



3. Arrange wires so they reach the landings with as little bend as possible. Cut wires to length, taking into account the terminating lug length.



4. Perform insulation resistance test on the HV DC wires. Refer to the Express Plus High Voltage Wire Insulation Resistance Test Field Guide.

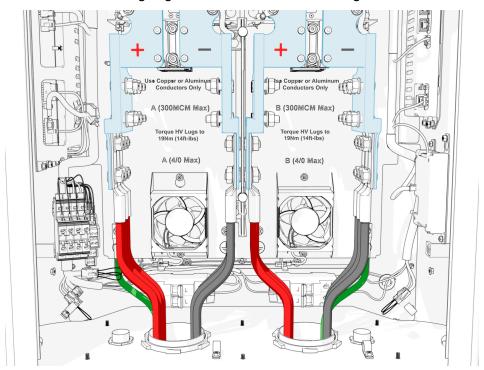
5. Connect the HV DC wires at the landings. See How to Connect HV DC and Ground Wires.



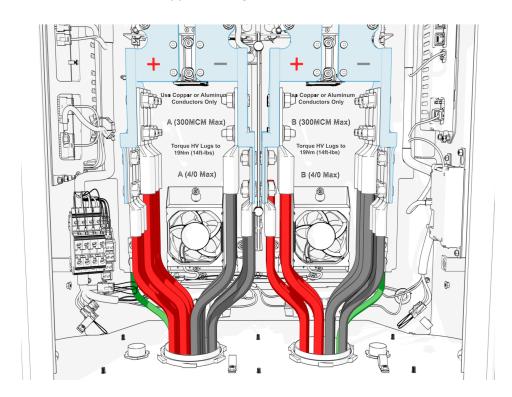
IMPORTANT:

Connect wires starting at the ground studs and lower landings first. Installing wires on the upper landings restricts access to lower areas.

Connect wires starting at ground studs and lower landings.

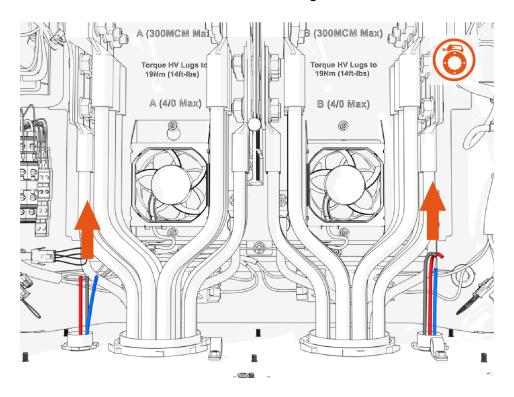


Then connect wires at upper landings.

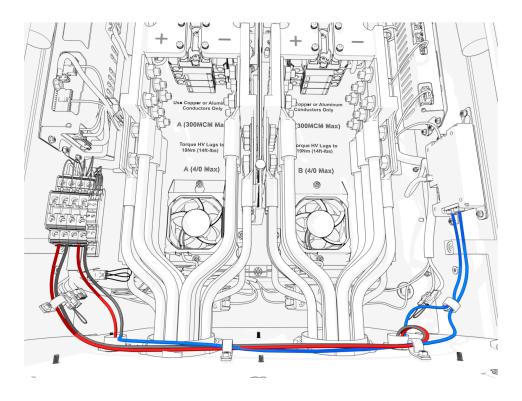


LV DC and Ethernet Wires

- 1. Label the LV DC and Ethernet wires at both ends.
- 2. Pull the LV DC wires and Ethernet cables through the conduits.



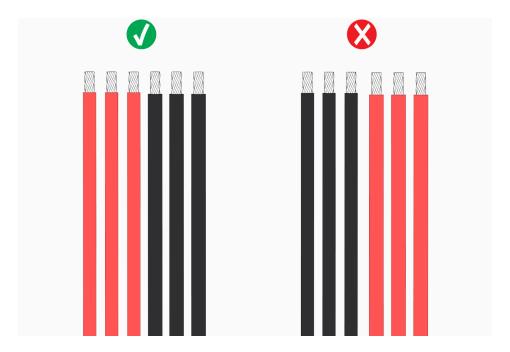
3. Connect the LV DC wires and Ethernet cables. See How to Connect LV DC and Ethernet Wires.



How to Pull HV DC Wires

To pull HV DC wires, complete the following steps:

1. Arrange wires such that the positive wires (red) arrive on the left side and negative wires (black) arrive on the right side within the Power Link 2000. This arrangement will help you land wires on their respective poles.



- 2. If necessary, apply a non-conductive wire pulling lubricant.
- 3. Pull the wires.
- 4. Wipe off any remains of wire pulling lubricant if applied.

How to Connect HV DC and Ground Wires

To connect HV DC ground wires, follow the instructions below:

IMPORTANT:

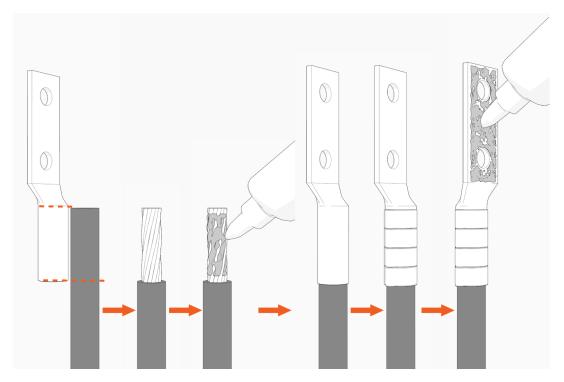
Before you begin, make note of the following:



- See Materials for the wire and lug specifications.
- Make sure no bare conductor is exposed below the lug's barrel. If necessary, heat shrink or tape the exposed area to meet the local code requirements.
- · Wipe off any remains of wire pulling lubricant if applied.

Prepare HV DC Wires

To prepare HV DC wires, complete the following steps:



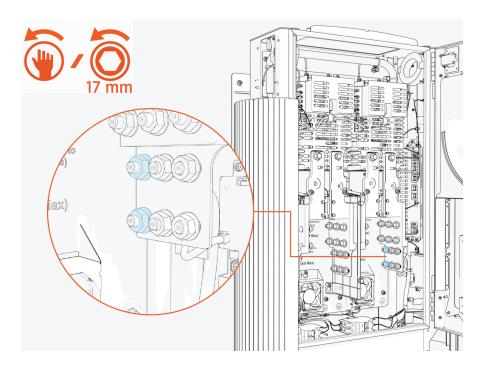
- 1. Mark the lug's barrel height on the wire terminal.
- 2. Strip the jacket on the marked terminal. Use a suitable wire stripper, such as Klein tool.
- 3. If recommended by the wire manufacturer or local code, apply an anti-oxidant joint compound to the stripped wire material to make a gastight joint with the lug.
- 4. Insert the stripped terminal into the lug's barrel and crimp it. Use a suitable lug crimping tool and/or die recommended by the lug manufacturer.
- 5. Apply dielectric grease to the lug's tongue surface that comes in contact with the bus bars.

Connect HV DC Wires

To connect HV DC wires, complete the following steps:

1. Identify the location for landing one HV DC wire. See <u>Plan for HV DC Wire Connect</u> for the wire landing locations.

2. Remove lug nuts.

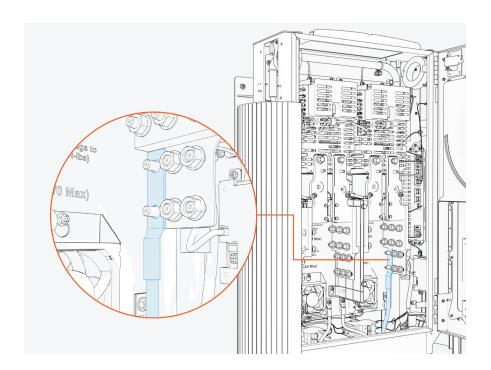


3. Install the prepared wire onto the studs (see Prepare HV DC Wires).



IMPORTANT:

When connecting the HV DC input wires, install the red (+) wire's lug onto the bus bars' positive (+) pole and black (-) wire's lug onto the bus bars' negative (-) pole.

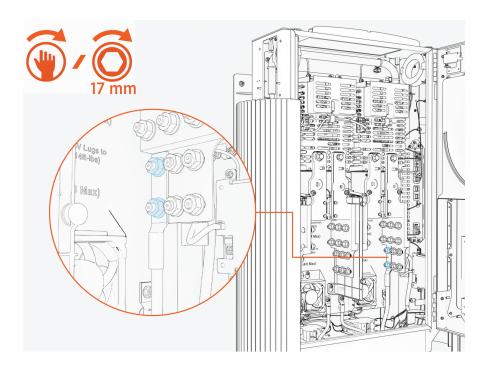


4. Reinstall the lug nuts and torque them.

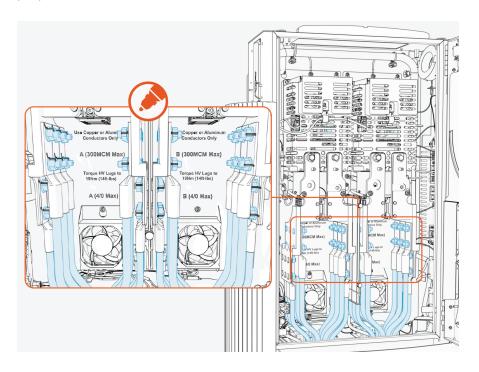


IMPORTANT:

Torque the HV DC input wire lug nuts to 19 Nm (14 ft-lb).

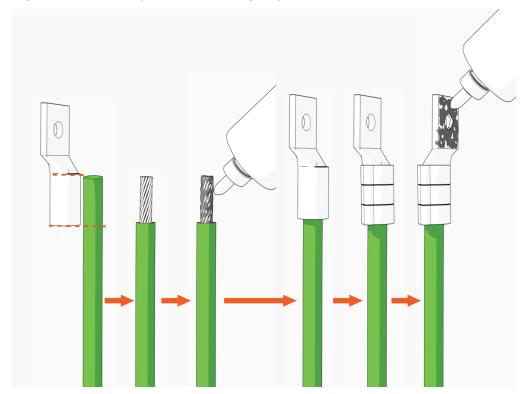


- 5. Repeat for all remaining HV DC wires.
- 6. Mark all torqued connections to ensure all lug nuts have been tightened. This is also for inspection purposes.



Prepare Ground Wires

To prepare the ground wires, complete the following steps:



- 1. Mark the lug's barrel height on the wire terminal.
- 2. Strip the jacket on the marked terminal. Use a suitable wire stripper, such as Klein tool.
- 3. If recommended by the wire manufacturer or local code, apply an anti-oxidant joint compound to the stripped wire material to make a gastight joint with the lug.
- 4. Insert the stripped terminal into the lug's barrel and crimp it. Use a suitable lug crimping tool and/or die recommended by the lug manufacturer.
- 5. Apply dielectric grease to the lug's tongue surface that comes in contact with the bus bars.

Connect Ground Wires

To connect ground wires, complete the following steps:

1. Identify a target ground wire landing stud. See Plan for HV DC Wire Connect for the wire landing locations.



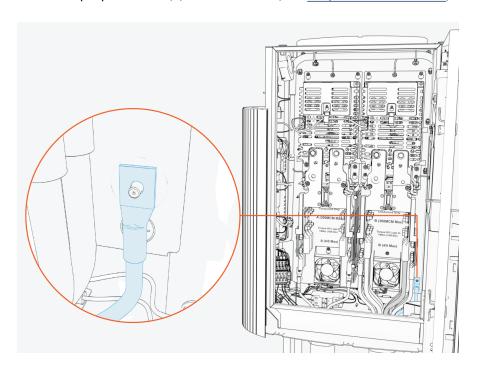
NOTE

Two ground wires may land on a single stud by stacking the ground wires on the stud.

2. Remove lug nut.



3. Install the prepared wire(s) onto the stud. (see Prepare Ground Wires).

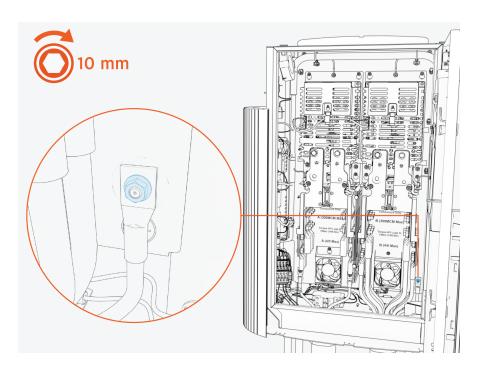


4. Reinstall the lug nut and apply torque.

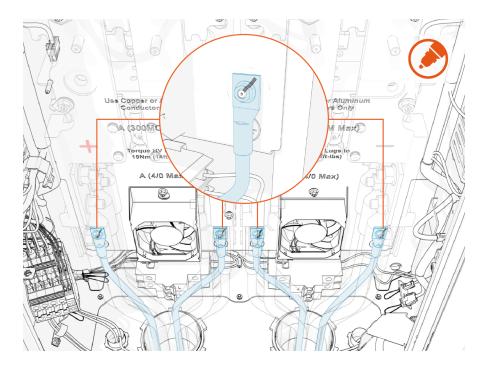


IMPORTANT:

Torque the ground wire lug nut to 5.6 Nm (50 in-lb).



- 5. Repeat for all remaining ground wires.
- 6. Mark all torqued connections to ensure all lug nuts have been tightened. Torque marks are required to pass post-installation inspection.



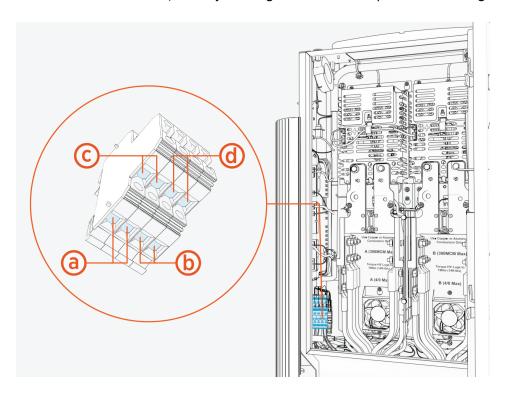
How to Connect LV DC and Ethernet Wires

To connect LV DC and Ethernet wires, complete the following steps:

Connect LV DC Wires

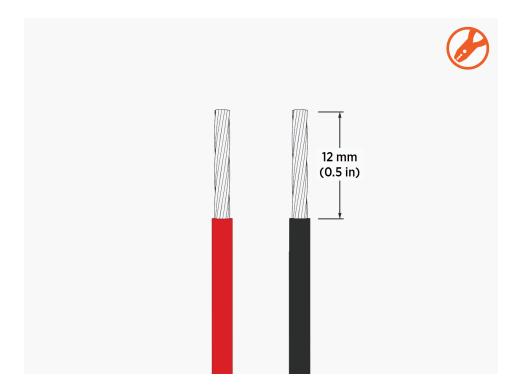
Follow the procedure below for each LV DC wire pair.

1. On the LV terminal block, identify the target wire insertion points for landing the LV DC wire pair.

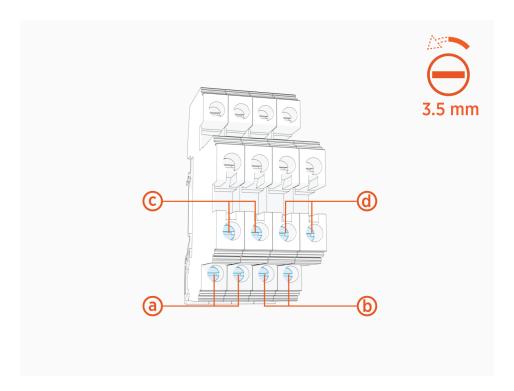


- (a) LV input, primary
- (b) LV input, secondary
- (c) LV output, primary
- (d) LV output, secondary

2. Strip the wire jackets (x2).



3. Loosen the wire set screws (x2).



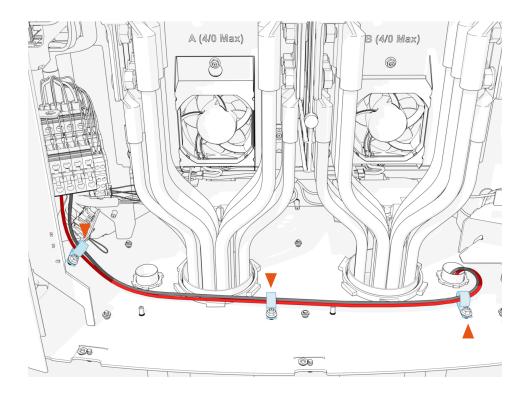
- (a) LV input, primary
- (b) LV input, secondary
- (c) LV output, primary
- (d) LV output, secondary

4. Route wires (x2) through the wireway clamps (if necessary use cable ties) and insert them into the LV terminal block.



IMPORTANT:

Insert the positive (+) wire into the left terminal. Insert the negative (-) wire into the right terminal. The illustration below depicts insertion of the primary LV input wire pair.



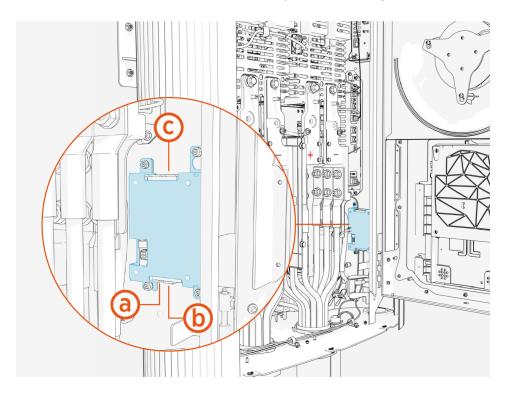
5. Torque the screws (x2) to 1.5 Nm (13.3 in-lb). Push-pull to test that both (+ and -) wires are secured.



Connect Ethernet Cable(s)

Follow the procedure below to connect each Ethernet cable.

1. On the Smart Ethernet Switch, locate three ports for landing Ethernet cables. All ports are equivalent.



- (a) Lower left port
- (b) Lower right port
- (c) upper port
- 2. Trim Ethernet (Cat6 STP) cable to length, allowing for a service loop.

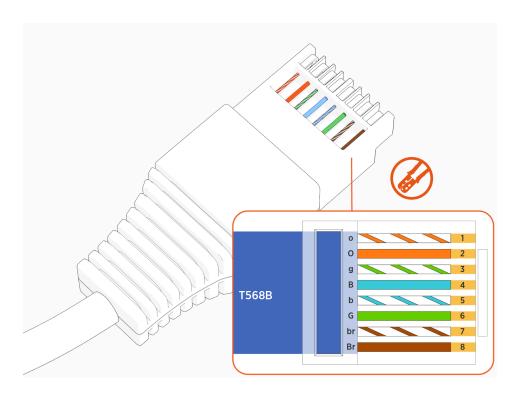
3. Field crimp a shielded RJ45 connector onto the Ethernet cable. Use straight-through T568B pattern.

IMPORTANT:

Ground the Ethernet cable shield as follows:



- For an Ethernet cable connecting from Power Block to Power Link 2000, ground the shield at the Power Block cable end. Do not ground the shield at the Power Link 2000 cable end.
- For an Ethernet cable connecting between Power Link 2000s, ground the shield at the cable end nearer to the Power Block (per Ethernet topology for the Express Plus cluster). Do not ground the shield at the other cable end.

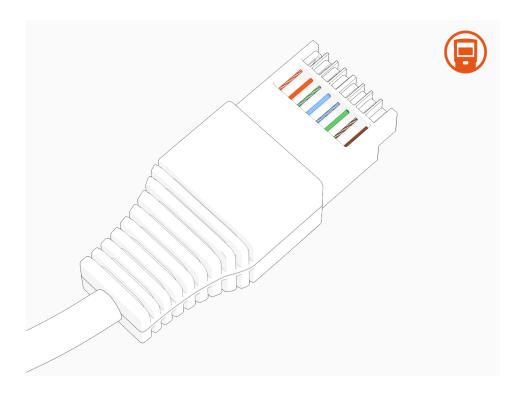


4. Test the Ethernet cable for functionality.



IMPORTANT:

If using a Paige OSP Shielded GameChanger cable for a wire run length greater than 100 m (328 ft), follow the test procedure specified by Paige. See Paige GameChanger Resources.



5. Route the cable through the wireway clamps and connect to any available port on the Smart Ethernet Switch. To establish a secure connection, the RJ45 connector's latch must click into the switch.



-chargepoin+

Install Additional Kits 4

Follow the instructions below to install additional kits.

Install Ethernet to USB Kit

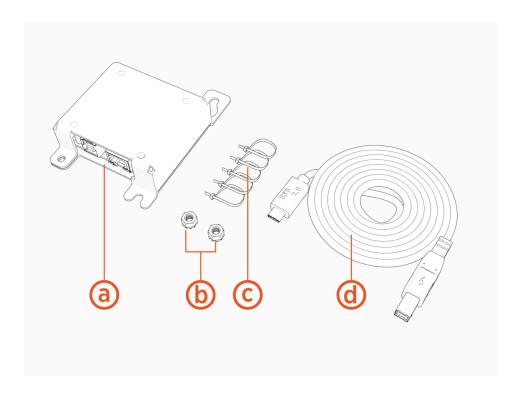
If the site plan indicates the Power Link 2000 must be configured with a hardwire Ethernet connection to a network server, follow procedures in this section to install the Ethernet to USB Kit and the hardwire connection.

1. Unpack the Ethernet to USB Kit. Confirm all parts listed below are present.



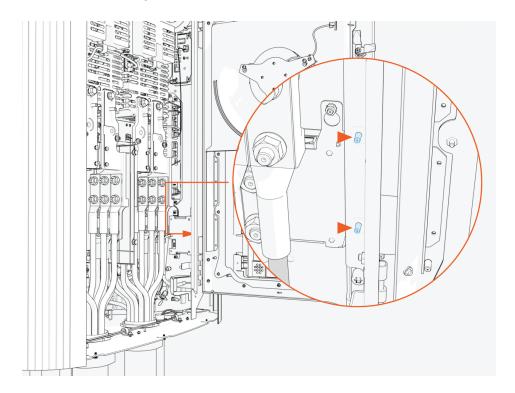
NOTE:

For any missing component, contact ChargePoint support.

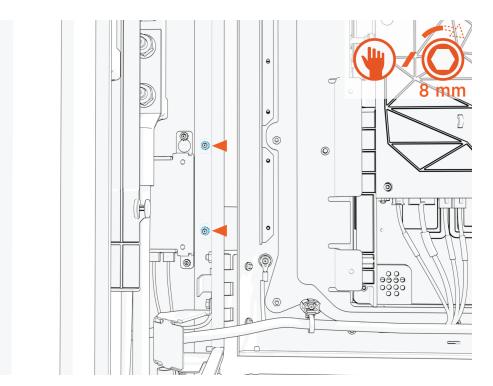


- (a) Ethernet to USB module
- (b) M5 star washer nuts (x2)
- (c) Zip ties (x5)
- (d) USB 3.0 Type B to Type C cable

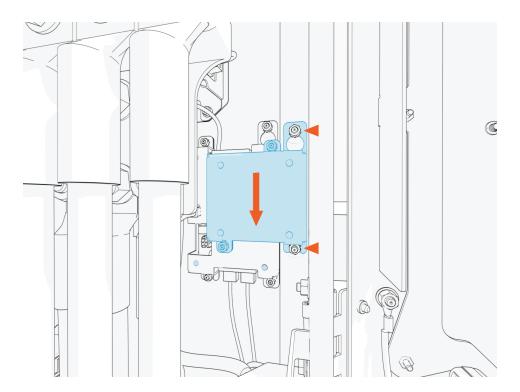
2. Locate the mounting studs (x2).



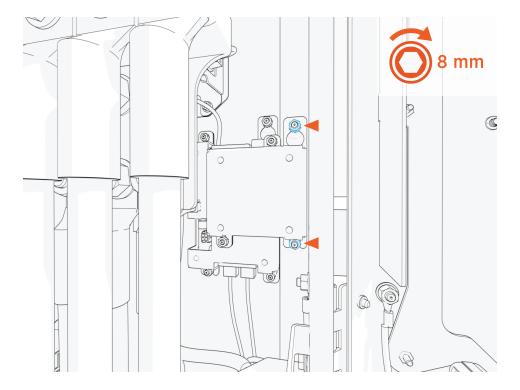
3. Install M5 star washer nuts (2) partially onto the studs. Thread the nuts only halfway onto each stud.



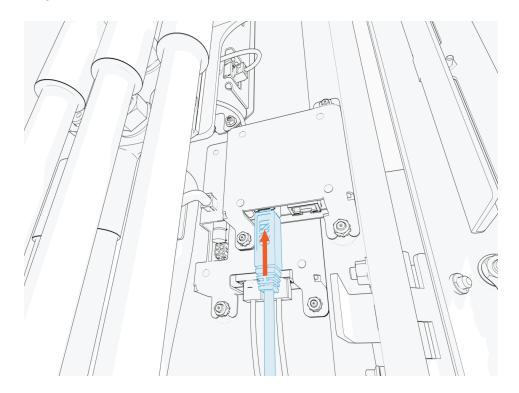
4. Mount the Ethernet to USB module onto the studs. Slide the module down to seat the notched tabs onto the studs.



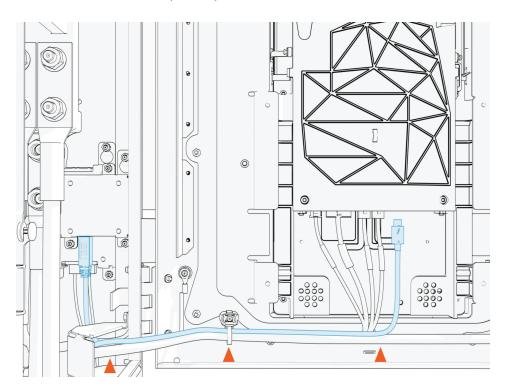
5. Torque nuts (x2) to **4.5 Nm (40 in-lb)**.



6. Plug the USB-B end of the USB cable into the module.



7. Route the cable through the door cable guide and along the main cable harness to the Control and Communication Module (CCOM) located on the Power Link 2000 door.



8. Connect the cable to the CCOM.

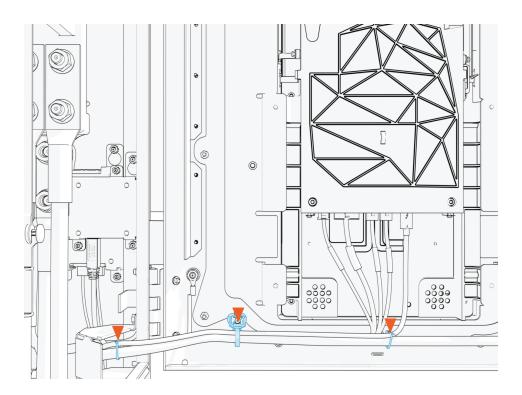


9. Zip tie the USB cable to the main cable harness.

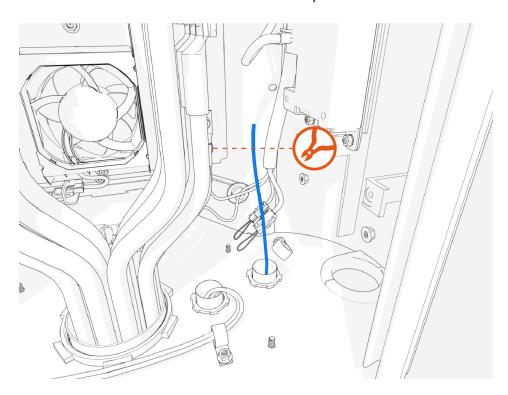
CAUTION:



- Ensure the door can open and close without pinching or pulling of any cables.
- Ensure the USB cable does not touch the HV DC wires when the door is closed.



10. Pull the hardwire Ethernet cable (Cat6 STP) and cut to length for landing at the Ethernet to USB module. Allow for a service loop.

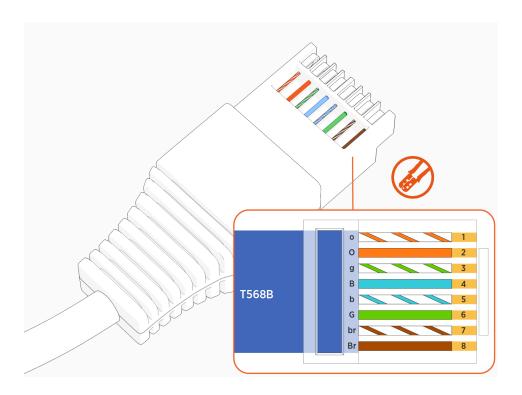


11. Field crimp an RJ45 connector onto the Ethernet cable. Use straight-through T568B pattern.



IMPORTANT:

Do not ground the shield at this end of the Ethernet cable. Ground the shield at the end of the Ethernet cable that connects to the network server.

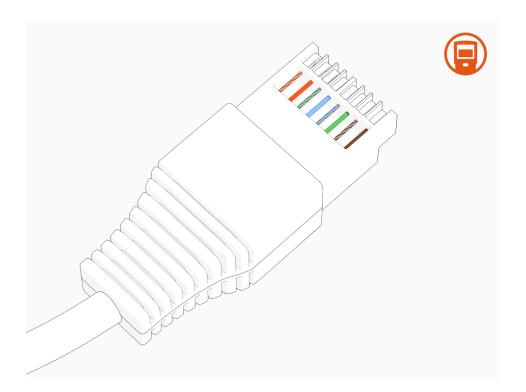


12. Test the Ethernet cable for functionality.

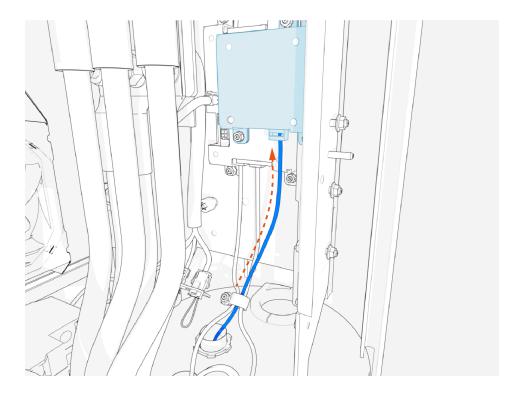


IMPORTANT:

If using a Paige OSP Shielded GameChanger cable for a wire run length greater than 100 m (328 ft), follow the test procedure specified by Paige. See Paige GameChanger Resources.



13. Route the Ethernet cable through wireway clamps and connect it to the Ethernet to USB module.



14. Route and connect the other end of the Ethernet cable to the network server.

Install Sequential Charging Kit

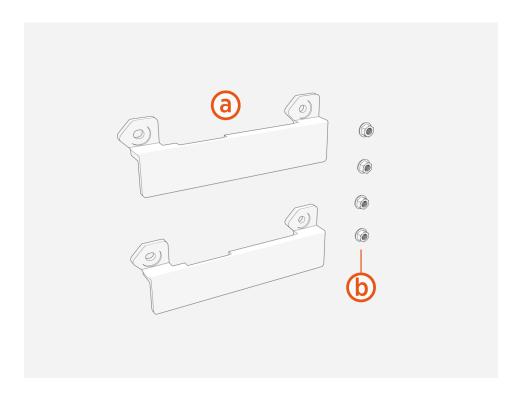
If the site plan indicates the Power Link 2000 must be configured for sequential charging, follow procedures below to install the Sequential Charging Kit.

1. Unpack the Sequential Charging Kit. Confirm all parts listed below are present.



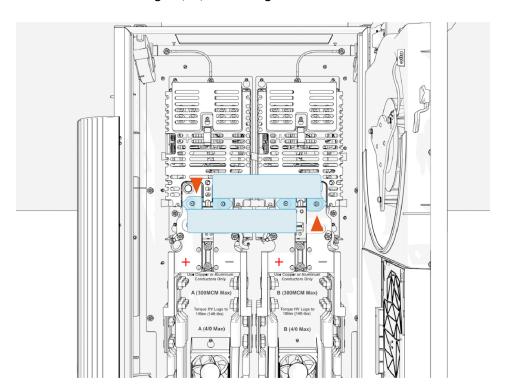
NOTE:

For any missing component, contact ChargePoint support.

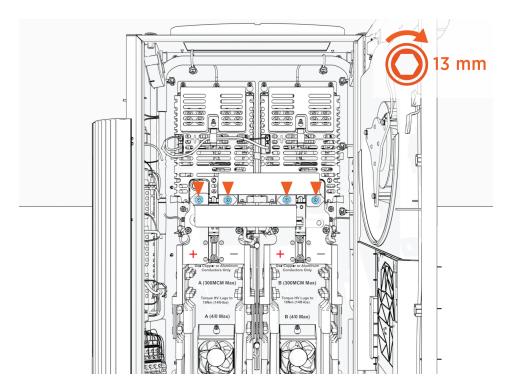


- (a) Bus bar bridges (x2)
- (b) M8 captive washer nuts (x4)

2. Install the bus bar bridges (x2). The bridges mount onto studs located on the HV DC bus bars.



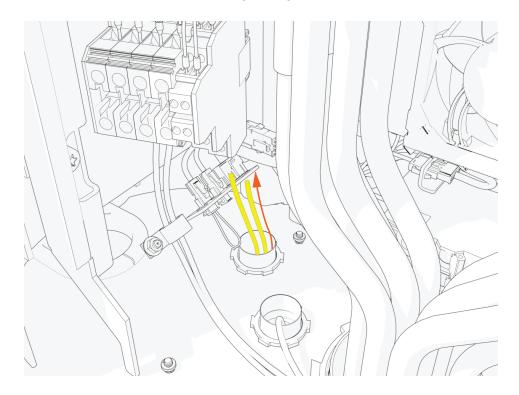
3. Fasten with concentric washer nuts (x4). Torque to 12.2 Nm (108 in-lb).



Install Soft Shutdown Switch

If the site plan indicates the Power Link 2000 must be configured with a soft shutdown switch, follow procedures below to install the soft shutdown switch.

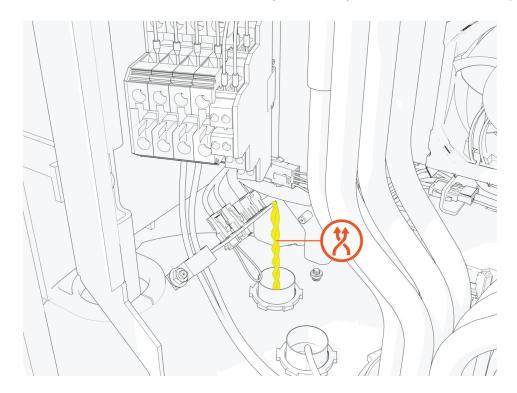
1. Pull the soft shutdown switch wiring through the conduit.



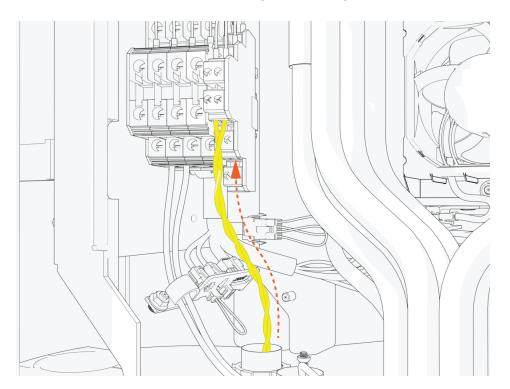
2. Loosen set screws (x2) at the soft shutdown terminal.



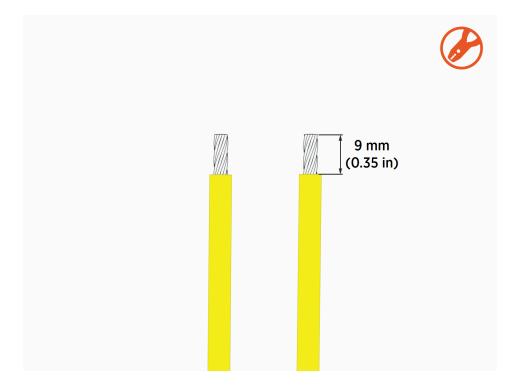
3. Twist the soft shutdown switch wires together, using a minimum of five twists per foot.



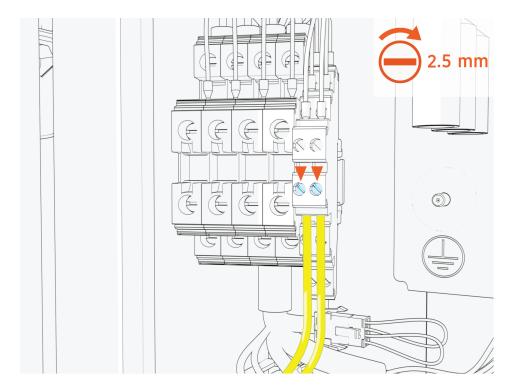
4. Route the twisted wires through the wireway clamps (if necessary, use cable ties) towards the soft shutdown terminal. Cut the wires to length for landing at the terminal.



5. Strip the wire ends.



6. Insert the wires into the soft shutdown terminal. Torque set screws (x2) to **0.6 Nm (5.3 in-lb)**.



Install Charging Cables 5

To install charging cables, complete the following set of steps:

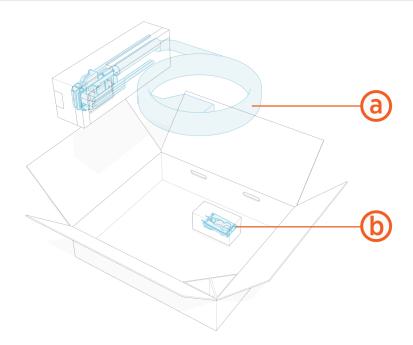
Charging Cable Package

Check the package for the following components:



NOTE:

For any missing component, contact ChargePoint support at chargepoint.com/support.



- (a) Charging cable assembly with connector and tetherball
- (b) Holster for placing the cable connector



NOTE:

Holster is not needed for overhead-mount Power Link 2000.

NOTE:

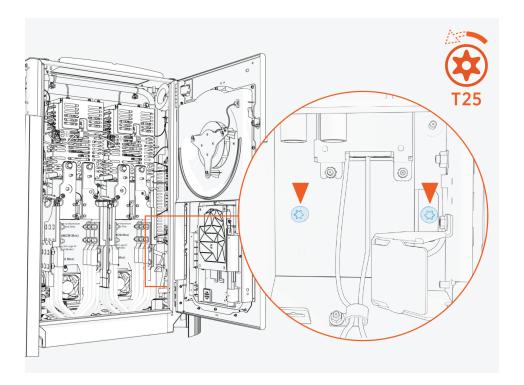


Standard length (5.8 m or 19 ft) charging cables come with a <u>tetherball</u> preinstalled onto the cable. For non-LCC medium length (7.6 m or 25 ft) charging cables, a tetherball is not preinstalled onto the cable. It must be installed after installing the charging cable or while installing the CMK.

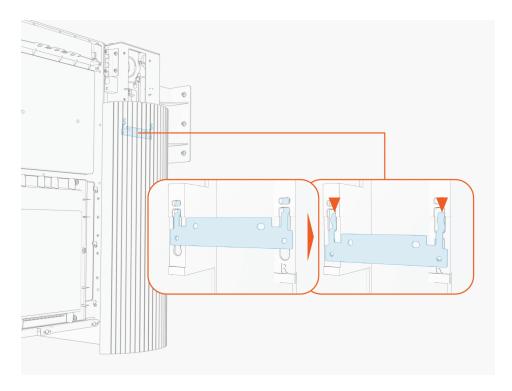
Remove Side Panel

If not already done, remove side panels from the Power Link 2000.

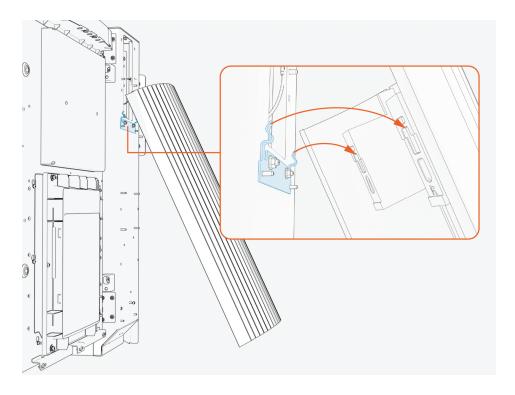
1. Loosen the screws (x2).



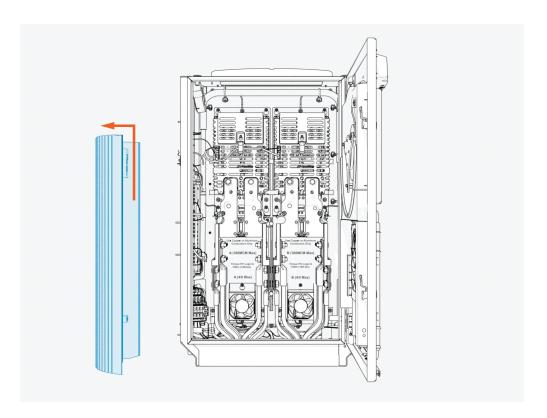
2. Slide the panel up to disengage it from hooks (x2) on the frame.



3. Remove the side panel. Set it aside for later reinstall.



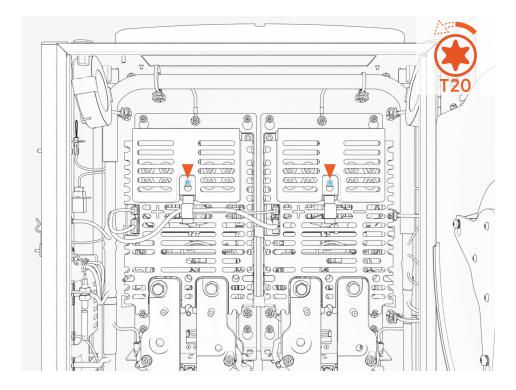
If configuring Power Link 2000 with dual charging cables, repeat the above procedure to remove the left side panel.



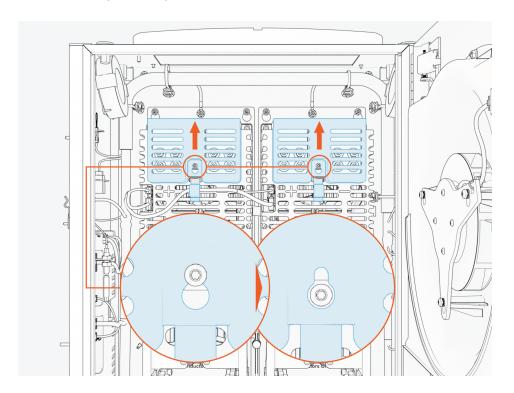
Remove HV DC Lug Landing Bus Bar Safety Cover

To remove HV DC lug landing bus bar safety covers, complete the following steps:

1. Loosen the screw (x1 per safety cover).



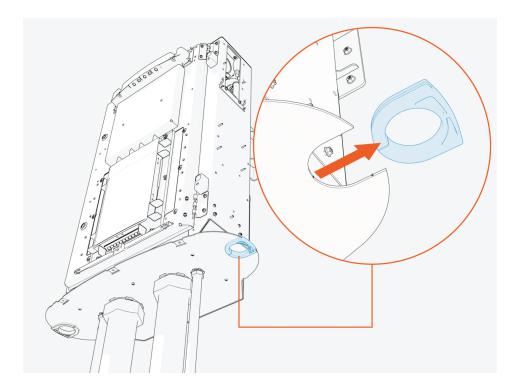
2. Slide the safety cover up to remove it from the screw.



Install Cable Assembly

To install the cable assembly, complete the following steps:

1. Remove the grommet from the bottom gland plate.

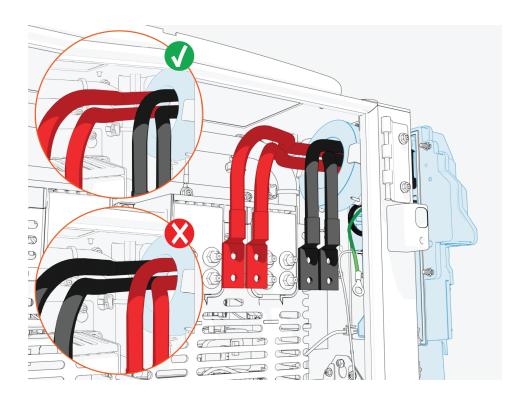


2. Route the cable assembly red (+) and black (-) HV DC wires through the Ferrite ring. Route other wires, such as ground (green) and Ethernet, outside of the Ferrite ring.

IMPORTANT:



While routing the right side cable through the Ferrite ring, make sure that the black (-) wires are at front side and red (+) wires are at the rear side to easily maneuver and land them onto their respective poles. Conversely, while routing the left side cable, make sure that the red (+) wires are at the front side and black (-) wires are at the rear side.

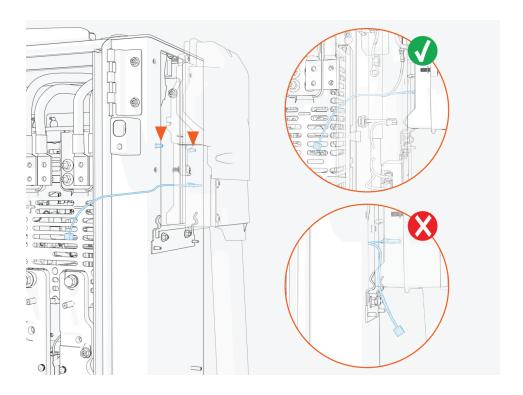


3. Install cable assembly onto the alignment pins (x2).

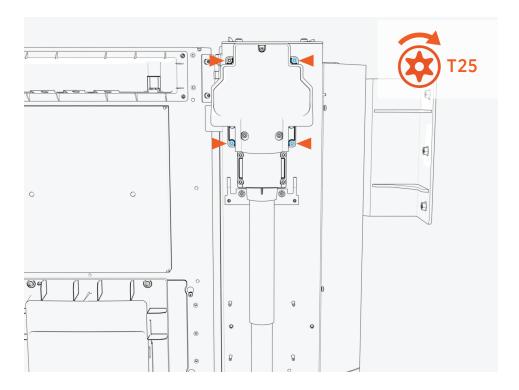


CAUTION:

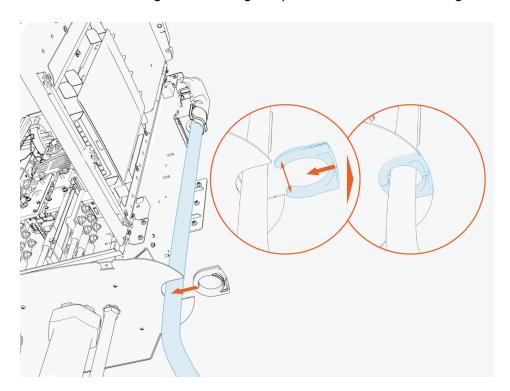
Ensure the small cables do not get pinched between the cable assembly and the Power Link 2000 frame.



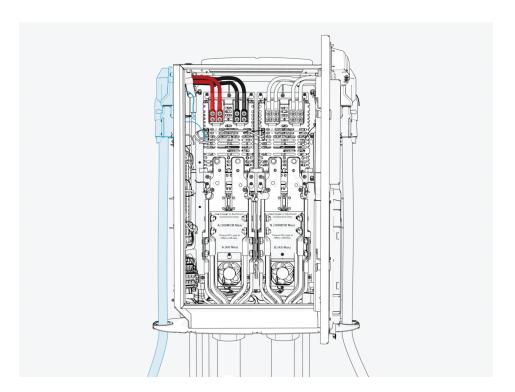
4. Torque the screws (x4) to **4.5 Nm (40 in-lb)**.



5. Route the cable through the bottom gland plate exit hole. Reinstall the grommet to the gland plate.



6. If applicable, repeat the above procedure to install the second charging cable on the left side of the enclosure.



Connect Wires

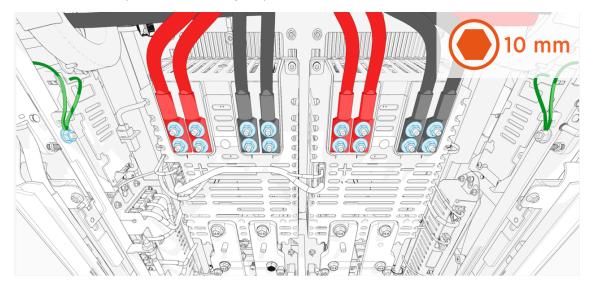


NOTE:

The illustrated cable connections on the left side and right side are for the left side and right side charging cables, respectively.

Connect HV Wires

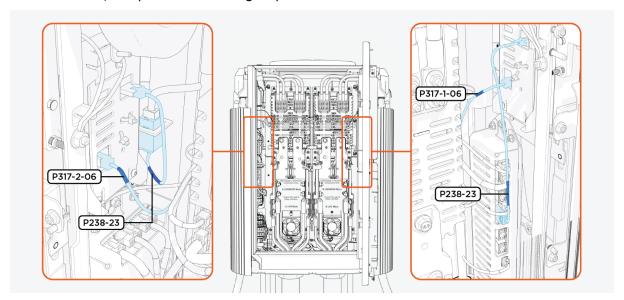
To connect HV wires, complete the following steps:



- 1. Remove the lug nuts (x4 per red and black HV DC wires; x1 per green ground wires).
- 2. Connect red HV DC wire lugs to positive (+) and black HV DC wires to negative (-) pole.
- 3. Connect green ground wire lugs (x2 per charging cable) to ground stud on the frame.
- 4. Torque all lug nuts to 5.6 Nm (50 in-lb) and mark using a torque paint pen.

Connect LV Wires

To connect LV wires, complete the following steps:

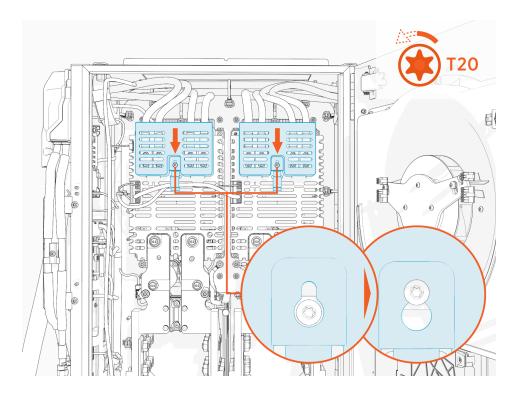


- 1. Plug in the LV wire (with labels P317-2-06 and P317-1-06) to four pin socket on the cable assembly.
- 2. Plug in the Ethernet cable from the charging cable assembly, as illustrated above.

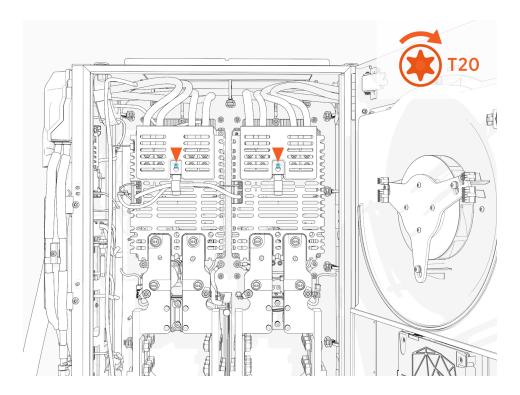
Reinstall HV DC Lug Landing Bus Bar Safety Cover

To reinstall the HV DC lug landing bus bar safety cover, complete the following steps:

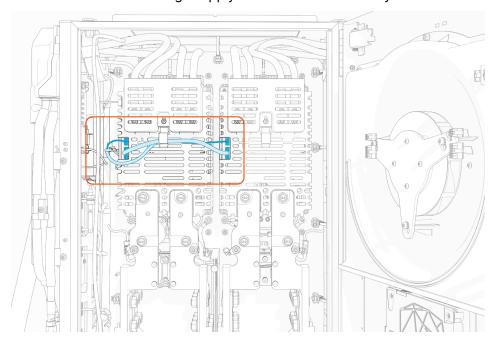
1. Install the safety cover onto the screw (ensure that the screw is loose) and slide it down.



2. Torque the screw to 1.7 Nm (15 in-lb).



3. Tuck the internal low voltage supply wires under the wireway tab on the cover.



Install Cable Management Kit 6 (CMK)

To install the Cable Management Kit (CMK), complete the following steps:

Install Overhead CMK

If the site plan calls for the Power Link 2000 to be configured with an overhead CMK, follow procedures in this section to install the CMK.



IMPORTANT:

The structure to which the overhead CMK mounts must meet the design specifications given in the Express Plus Power Link 2000 Site Design Guide.

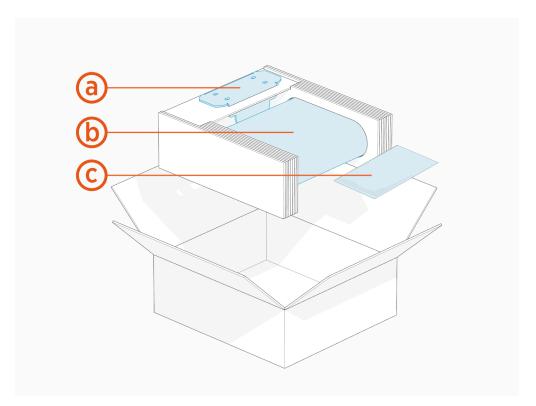
Kit Components

Check the overhead CMK package for the following components:



NOTE

For any missing component, contact ChargePoint support at chargepoint.com/support.



- (a) Mounting bracket
- (b) Overhead CMK
- (c) Hardware kit with M8 hex nuts (x4) and M6 Torx screws (x4)

Install Overhead CMK

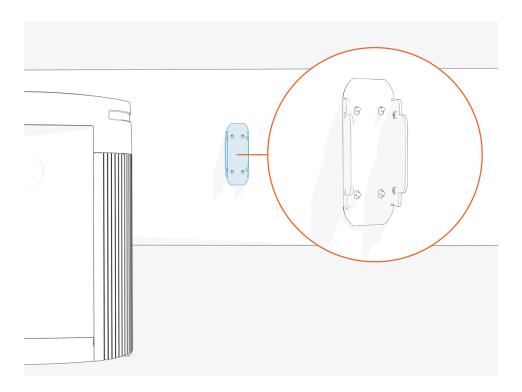
To install the overhead CMK, complete the following steps:

- 1. Find the M8 hex nuts (x4) and M6 Torx screws (x4) shipped in the overhead CMK package.
- 2. Position the CMK bracket as specified by the site plan.



NOTE:

Mounting studs are provided by the customer. See the Express PlusPower Link 2000 Site Design Guide.

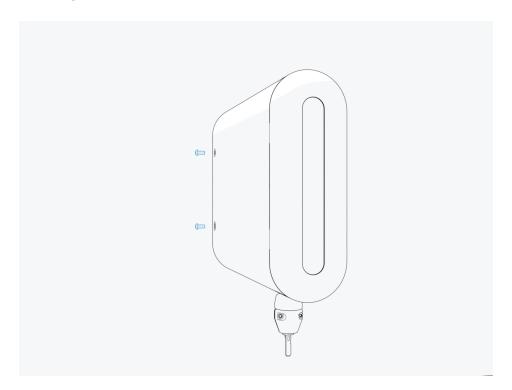


3. Install and torque M8 hex nuts (x4) to 11 Nm (97 in-lb) to secure the bracket.





4. Align the overhead CMK onto the bracket and install M6 Torx screws (x4: x2 on the left side and x2 on the right side).



5. Torque the screws to 3.4 Nm (30 in-lb).

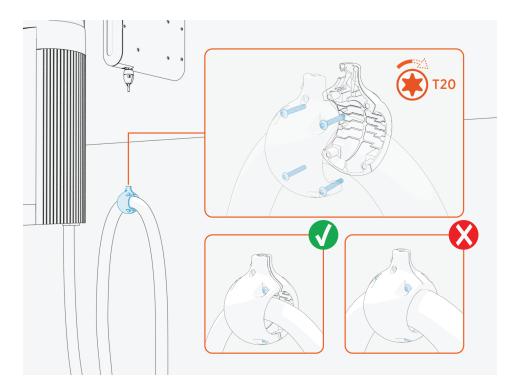


6. If the Power Link 2000 is equipped with two charging cables, repeat the procedure to install an overhead CMK for the second cable.

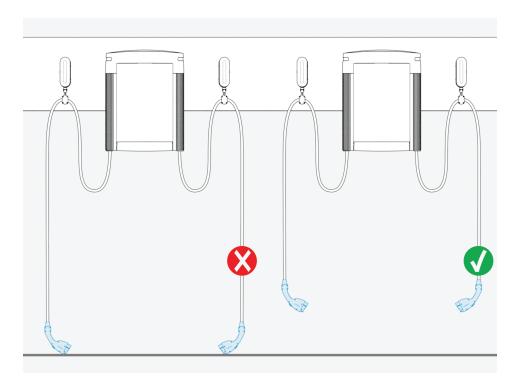
Install Tetherball

Standard length (5.8 m or 19 ft) <u>charging cables</u> come with a tetherball preinstalled onto the cable. For non-LCC medium length (7.6 m or 25 ft) charging cables, a tetherball is not preinstalled onto the cable. It must be installed after installing the charging cable or while installing the CMK.

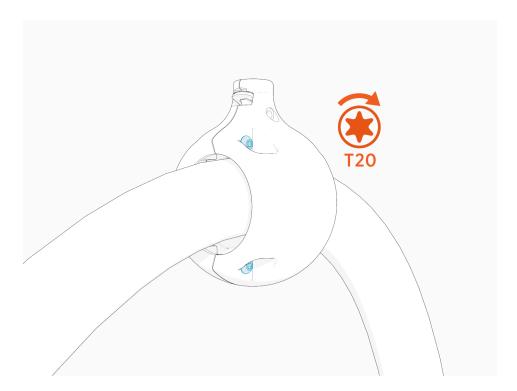
1. Loosely install the ball clamp onto the cable.



2. Slide the ball clamp to a position on the cable such that when the cable is in its final resting position, the charging connector hangs above the ground at a height specified by the site plan.



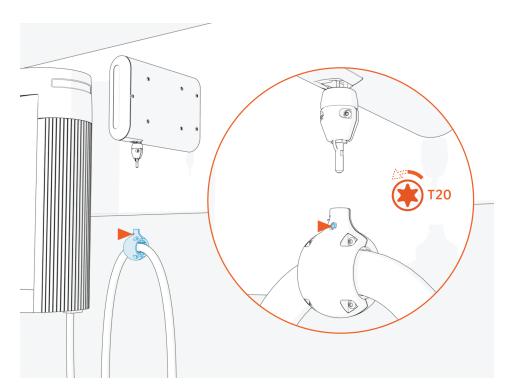
3. Torque the screws (x4) to 2.8 Nm (25 in-lb).



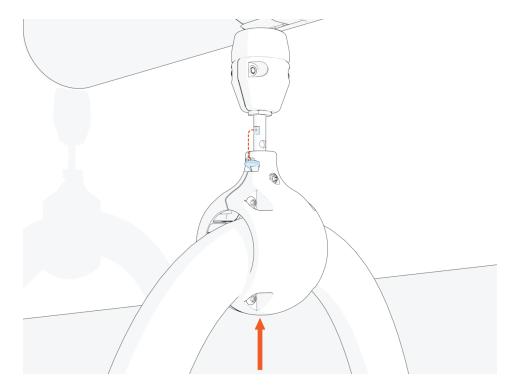
Suspend Charging Cable

To suspend charging cable, complete the following steps:

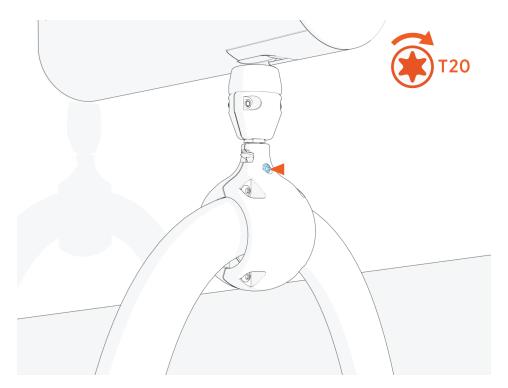
1. Loosen the screw if it is not loose.



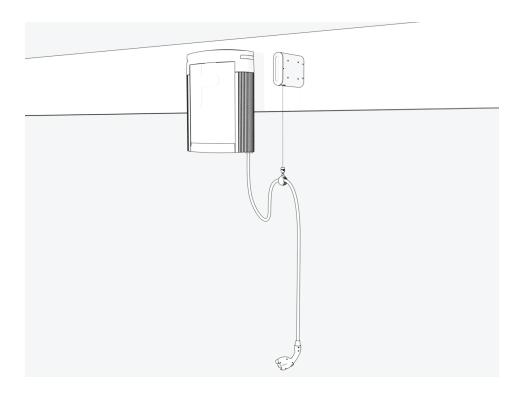
2. Align spring in the ball clamp with flat notch on the anchor pin. While aligned, gently push ball clamp onto the anchor pin.



3. Torque the screw to 2.8 Nm (25 in-lb).



4.



Tug on the cable to check that it is securely attached and that it extends and retracts properly. If you find limited motion or retraction, <u>contact ChargePoint support</u>.

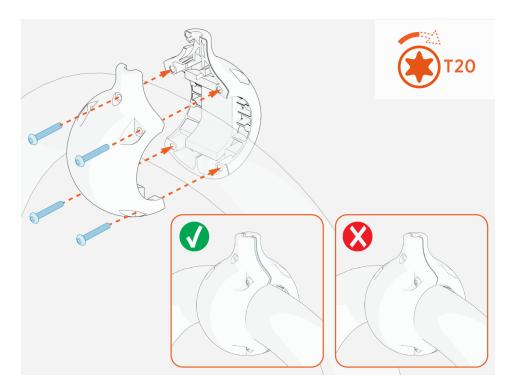
5. If two charging cables have been installed, repeat for the other side.

Install Tether Hook

Use tether hooks as additional support for overhead CMKs or to enable the use of third-party hoist or cable management solutions. The tether hook can be attached to either a fixed point or to an alternate cable management mechanism such as a winch.

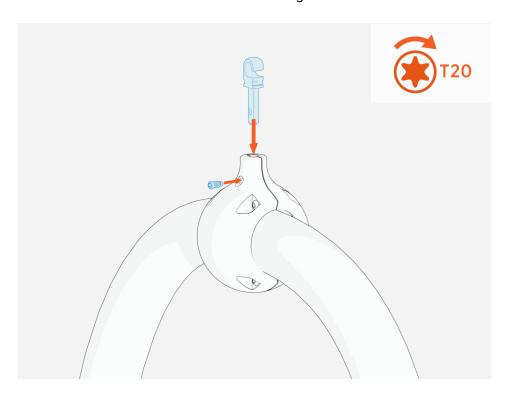
To install the tether hook, perform the following steps:

1. Loosely install the tetherball onto the cable. Slide and position the tetherball onto the charging cable to an appropriate suspension position (prior to tightening the tetherball).



2. Torque the screws (x4) to 2.8 Nm (25 in-lb).

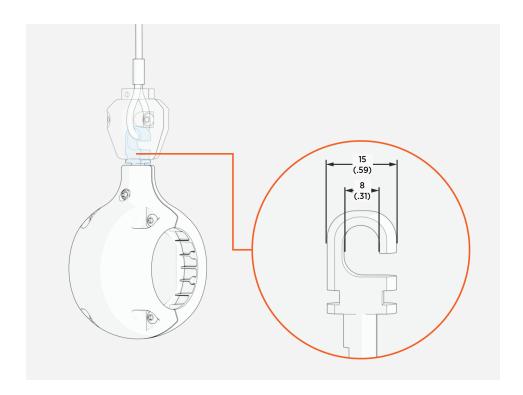
3. Push the tether hook into the tetherball and tighten set screw.



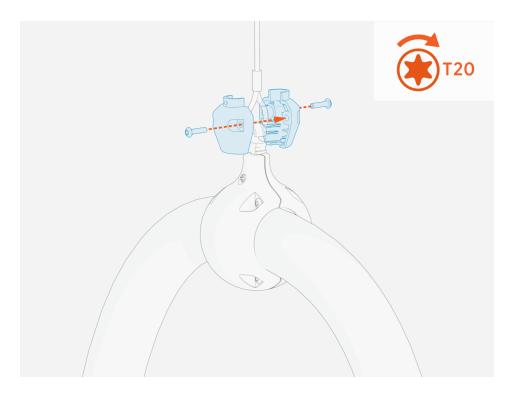
4. Use steel cable (recommended 1/8" OD) and associated eyelet/thimble to connect to tether hook. Wrap the steel cable and eyelet around tether hook.



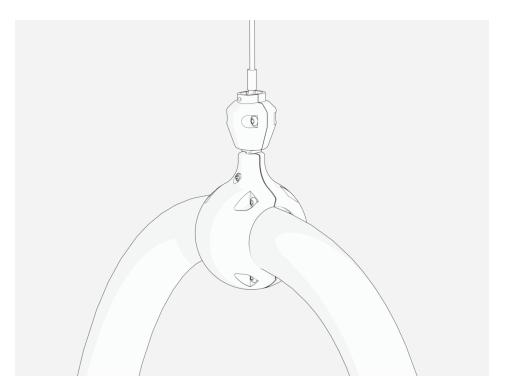
NOTE: Images are not to scale. Measurements appear in metric units (mm) followed by imperial equivalents (inches).



5. Secure the plastic housing around the tether hook. Torque the T20 screws (x2) to **1.3 Nm (10 in-lb)**. This ensures the steel cable is retained on the tether hook.



6. Ensure the tether hook is securely fastened and the cable is properly supported.



Close and Install Covers 7

To close and install covers, complete the following steps:



IMPORTANT:

Do not reconnect the power after completing the installation (after installing the covers). An Authorized Commissioning Partner will commission, power on, pinpoint, and configure Power Link 2000 after installation.

Vacuum Enclosure

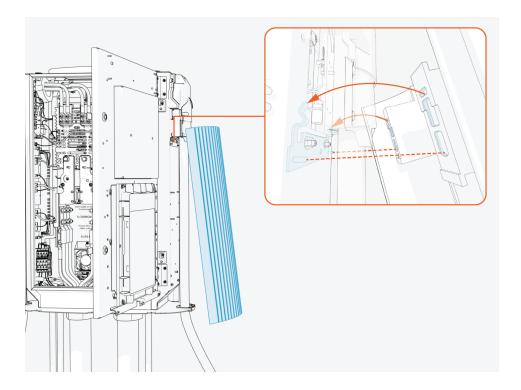
Vacuum residue from the enclosure.



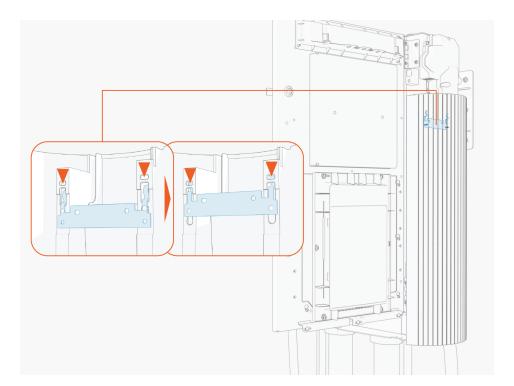
Reinstall Side Panels

To reinstall side panels, complete the following steps:

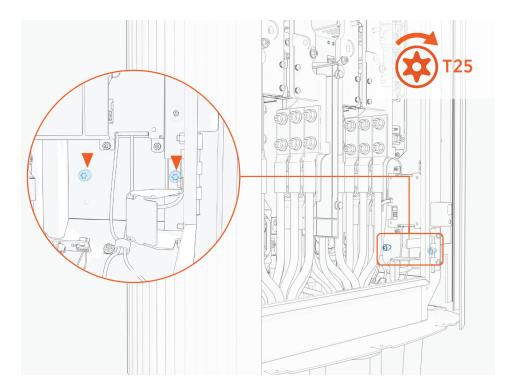
1. Align and install the side panel onto the hooks (x2) and alignment pins (x2) on the frame.



2. Slowly slide the side panel down to engage the hooks (x2) on the frame.



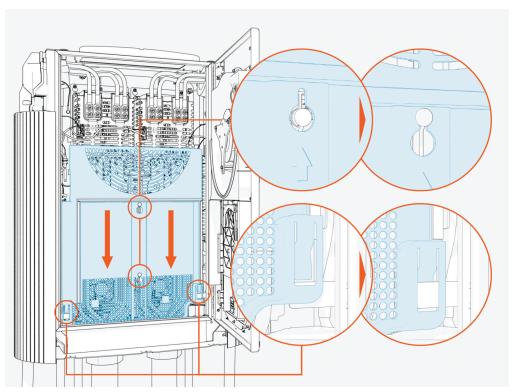
3. Align the screw holes (x2) on the rear side of the side panel with the screws (x2) inside the lower enclosure and torque them to **4.5 Nm (40 in-lb)**.



4. If two charging cables have been installed, repeat the procedure to install the other side panel.

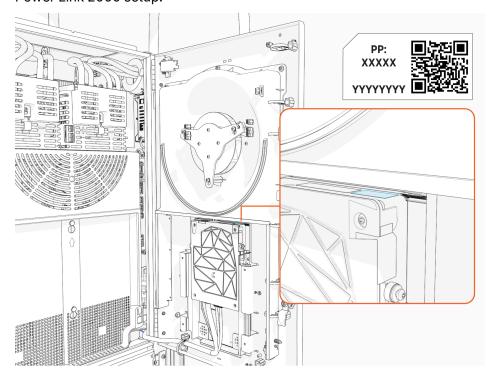
Reinstall HV DC Input Bus Bar Safety Cover

Install the cover onto the hooks (x2) and brackets (x2) and then slide it down.



Record MAC Address

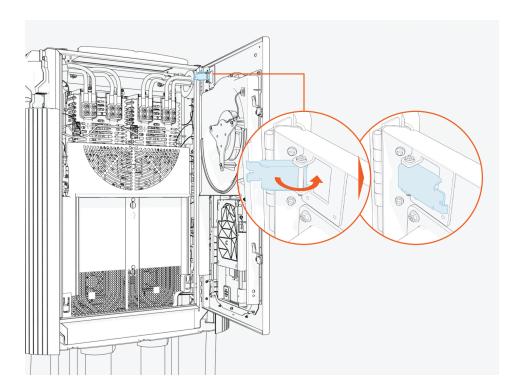
Take a photograph of the Power Link 2000 activation QR code and MAC address, which can be found on the label affixed to the top of the Control and Communications Module (CCOM). This information is used at Power Link 2000 setup.



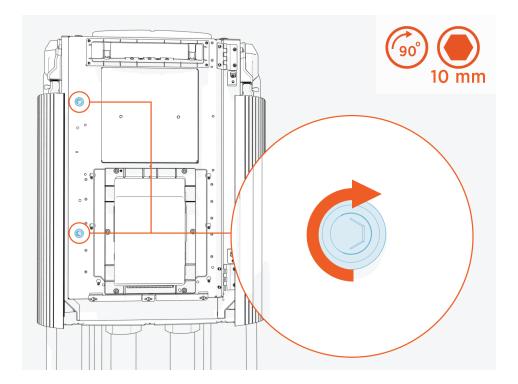
Close Enclosure Doors

To close enclosure doors, complete the following steps:

1. Disengage the door stopper (x1 per upper and lower enclosure door).



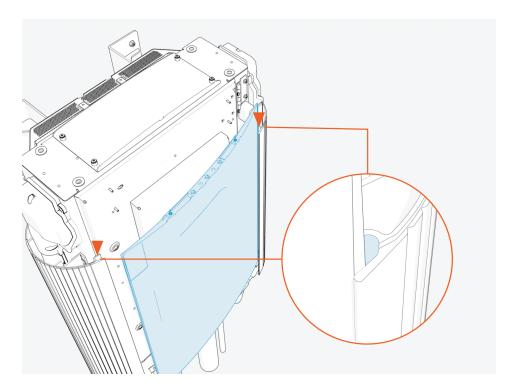
2. Quarter turn the door latches (x2 per upper and lower enclosure door).



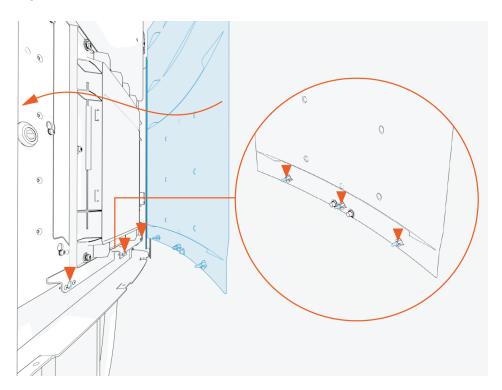
Install Front Cover

To install the front cover, complete the following steps:

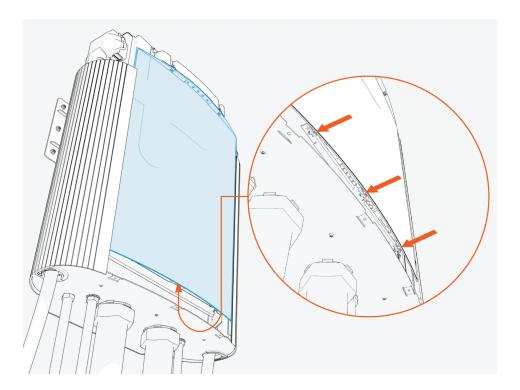
1. Insert any one side of the cover into the groove on the side cover.



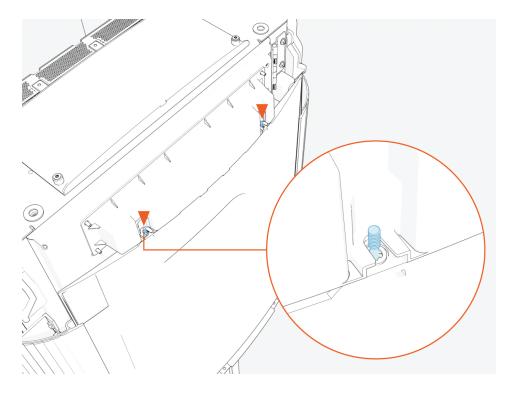
2. Gently flex the cover to insert its other side into the groove on the other side panel. At the same time, align and hook the ball studs (x3) behind the cover into the holes (x3) in a bracket on the upper door.



3. Alternatively, you can hold and flex lower side of the cover slightly outward. While flexed, align the ball studs (x3) behind the cover with the holes (x3) in the bracket on the upper door and press in.

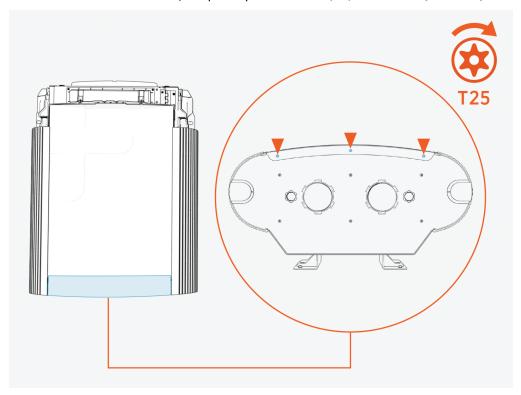


4. Make sure that the screws (x2) on the front upper cover are seated in their slots in the area light housing.



Install Bottom Crown

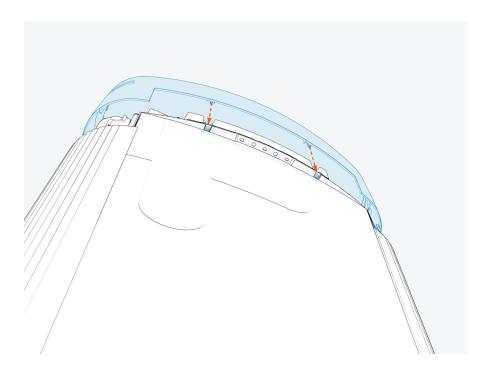
To install the bottom crown, torque captive screws (x3) to 4.5 Nm (40 in-lb).



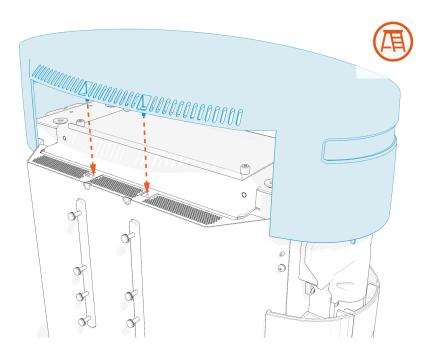
Install Top Cap

To install the top cap, complete the following steps:

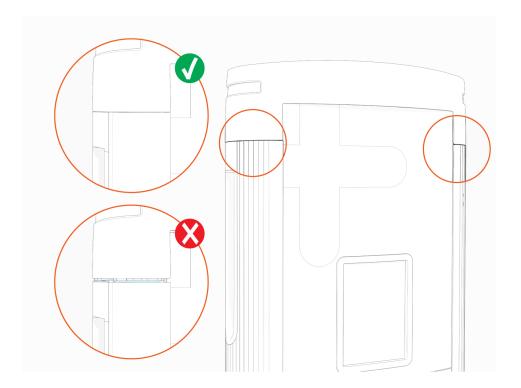
- 1. Align the screws (x4) and install the top cap.
 - Front screws (x2)



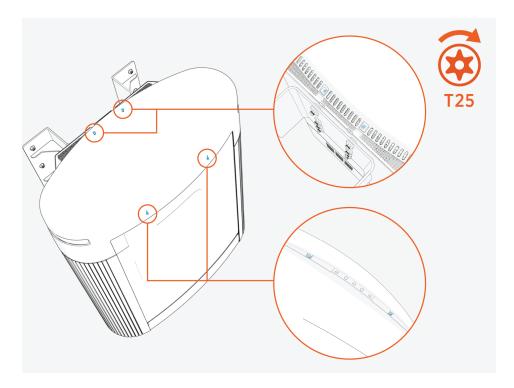
• Rear screws (x2)



2. Make sure that the top cap sides are seated on edges on top of the side panels (x2).



3. Torque the rear screws (x2) to 2.8 Nm (25 in-lb) and front screws (x2) to 1.7 Nm (15 in-lb).



-chargepoin+

Post-Installation Checklist 8

Before leaving the installation site, complete the post-installation checklist using the link below:

 $\underline{\text{https://docs.chargepoint.com/ref-docs-sec/content/pdfs/3-dc/expp/pl2000/pl2000-install_checklist_overhead_variationb.pdf}$

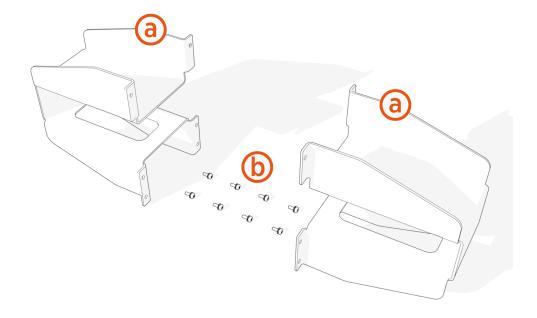
Provide the checklist and any spare parts (activation labels, and so on.) to the person responsible for activating the stations. This completes the installation of the Power Link 2000 charging station.

-chargepoin+

Appendix: Install Forklift Brackets A

Forklift brackets may be installed on the Power Link 2000 to enable product installation at a location where the overhead clearance does not meet the minimum requirement (305 mm or 12 in from top of Power Link 2000).

Kit Components

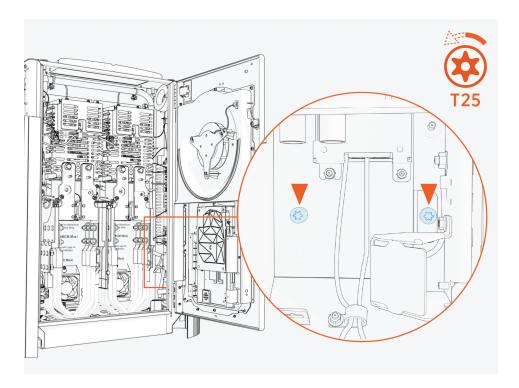


- (a) Forklift brackets (x2)
- (b) M5 screws (x8)

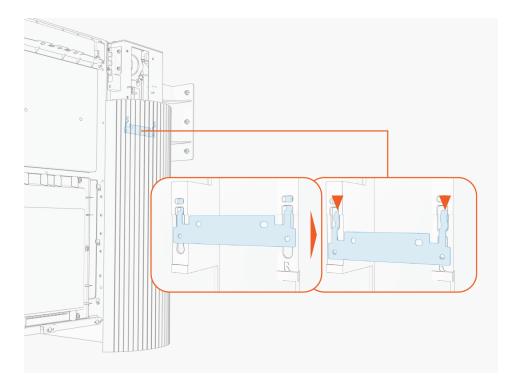
Remove Side Panels

To remove the side panels, complete the following steps:

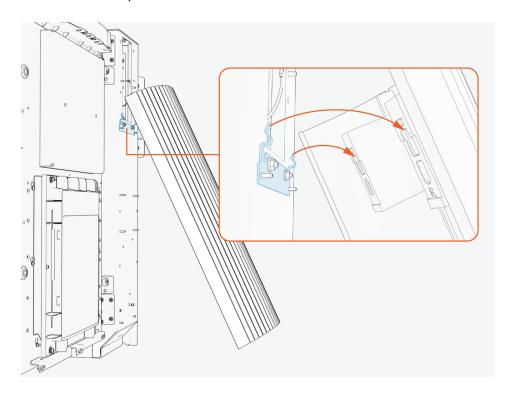
1. Loosen the screws (x2).



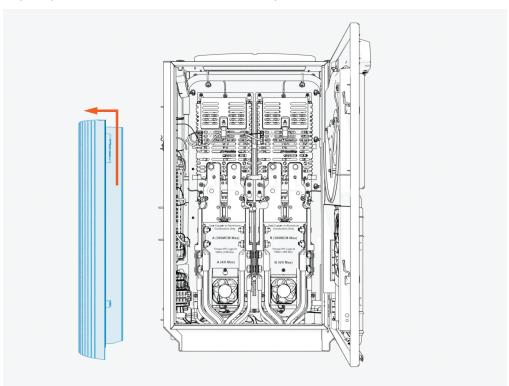
2. Slide the panel up to disengage it from hooks (x2) on the frame.



3. Remove the side panel. Set it aside for later reinstall.



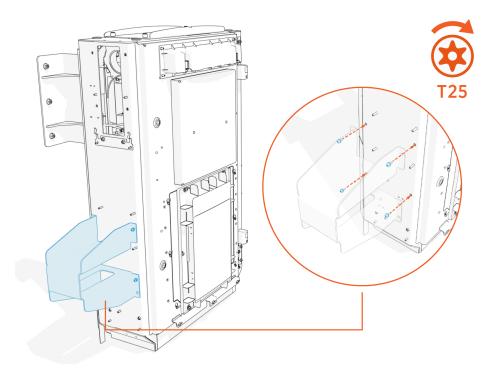
Repeat procedure to remove the other side panel.



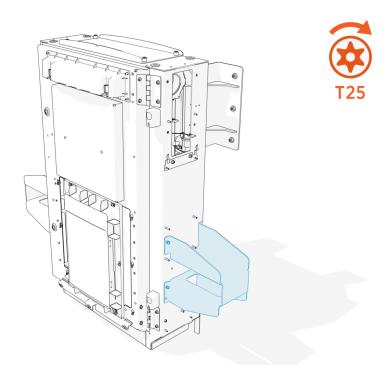
Install Forklift Brackets

To install the forklist brackets, complete the following steps:

1. Install left forklift bracket with M5 screws (x4). Torque to 4.5 Nm (40 in-lb).



2. Install right forklift bracket with M5 screws (x4). Torque to 4.5 Nm (40 in-lb).



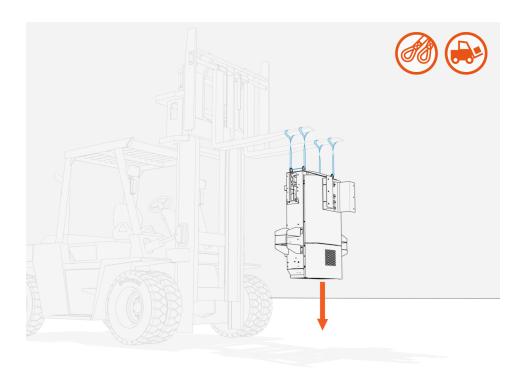
Transfer Enclosure to Forklift

To transfer enclosure to forklift, complete the following steps:

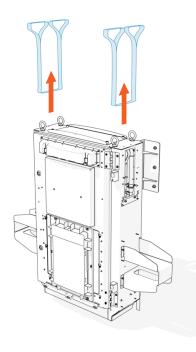
1. Lower the Power Link 2000 to stand on a level ground surface.



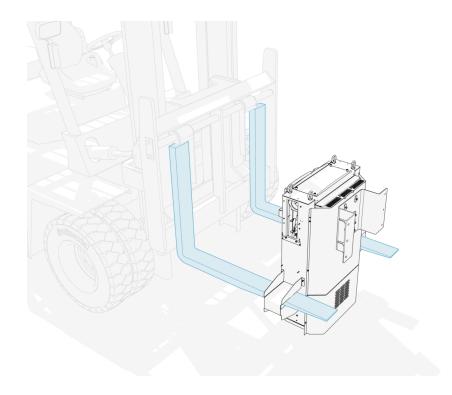
IMPORTANT: Ensure the enclosure is stable on the ground and does not wobble.



2. Remove the lifting straps.



3. Slot the forklift tines into the forklift brackets for lifting the Power Link 2000.



Appendix: Set Up Power Link 2000

To set up Power Link 2000, complete the following steps:

IMPORTANT:



Do not power on Power Link 2000 immediately after completing the installation (<u>after installing the covers</u>). An Authorized Commissioning Partner must commission the Power Link 2000 after installation and before power on. The Authorized Commissioning Partner will pinpoint and configure the Power Link 2000.

Power On



NOTE:

Power Link 2000 must pass commissioning before power on, or warranty limitations apply.

- 1. Ensure all doors and panels, covers, vinyl signs, and all other parts have been correctly installed and the work is complete.
- 2. Turn on power at the same points that you turned it off.



NOTE:

If the site has a remote shunt trip switch, ensure that the switch is in the operating position.

3. Wait for self-diagnostics to run. The system may take several minutes to initiate. You may see messages intermittently until the system fully boots up.

Self-Diagnostic	After Installation	After Service or Power Outage
Electrical safety checks	✓	✓
Lighting checks	✓	✓
Display panel checks	✓	✓
Component operation checks	✓	✓
Network connectivity checks	✓	✓
Installation Wizard (for the installer to complete configuration and pinpoint the station on maps)	√	-

Set Up Power Link 2000

After you power on the charging station at the breaker panel, set up Power Link 2000. To do so, you need:

- · ChargePoint installer login credentials.
- Activation label (QR code label including the MAC address and activation password).
- The exact location (to the parking space) where the Power Link 2000 is installed.
- A smartphone with ChargePoint Installer app, Internet connectivity, and QR code scanner (usually built into the camera app).

Scan the QR code to download the ChargePoint Installer app and sign up if necessary.









Follow the steps below to set up Power Link 2000:

- 1. Open the ChargePoint Installer app and log in.
- 2. Follow the onscreen prompts.

NOTE



To connect to Power Link 2000 and complete setup, you need to scan the QR code provided on the Power Link 2000 display or manually enter the MAC address and password of Power Link 2000.

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.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

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

Exposure to Radio Frequency Energy: The radiated power output of the 802.11 b/g/n radio and cellular modem (optional) in this device is below the FCC radio frequency exposure limits for uncontrolled equipment. The antenna of this product, used under normal conditions, is at least 20 cm away from the body of the user. This device must not be co-located or operated with any other antenna or transmitter by the manufacturer, subject to the conditions of the FCC Grant.

ISED (formerly Industry Canada)

This device complies with the licence-exempt RSS standard(s) of Innovation, Science and Economic Development Canada (ISED). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux flux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada (ISDE). L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter.

Radiation Exposure Statement: This equipment complies with the IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Énoncé d'exposition aux rayonnements: Cet équipement est conforme aux limites d'exposition aux rayonnements ioniques RSS-102 Pour un environnement incontrôlé. Cet équipement doit être installé et utilisé avec un Distance minimale de 20 cm entre le radiateur et votre corps.

FCC/IC Compliance Labels

Visit chargepoint.com/labels.