



Express Solo

One Platform, Infinite Possibilities

Installation Guide

75-001751-01 r0



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:



1. **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 electrocution or fire. 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).**
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13. Do not use an electric vehicle connector adapter with any charger or EV that is capable of exceeding the adapter's rated voltage or 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 chargepoint.com/guides.

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Warranty

For information on warranty, refer to <https://store.chargepoint.com/warranty-policy>.

Symbols

This guide and product use the following symbols:



DANGER: Risk of electric shock



WARNING: Risk of personal harm or death



CAUTION: Risk of equipment or property damage



IMPORTANT: Crucial step for installation success



Read the manual for instructions



Ground/protective earth

Illustrations Used in This Document

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

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Introduction 1

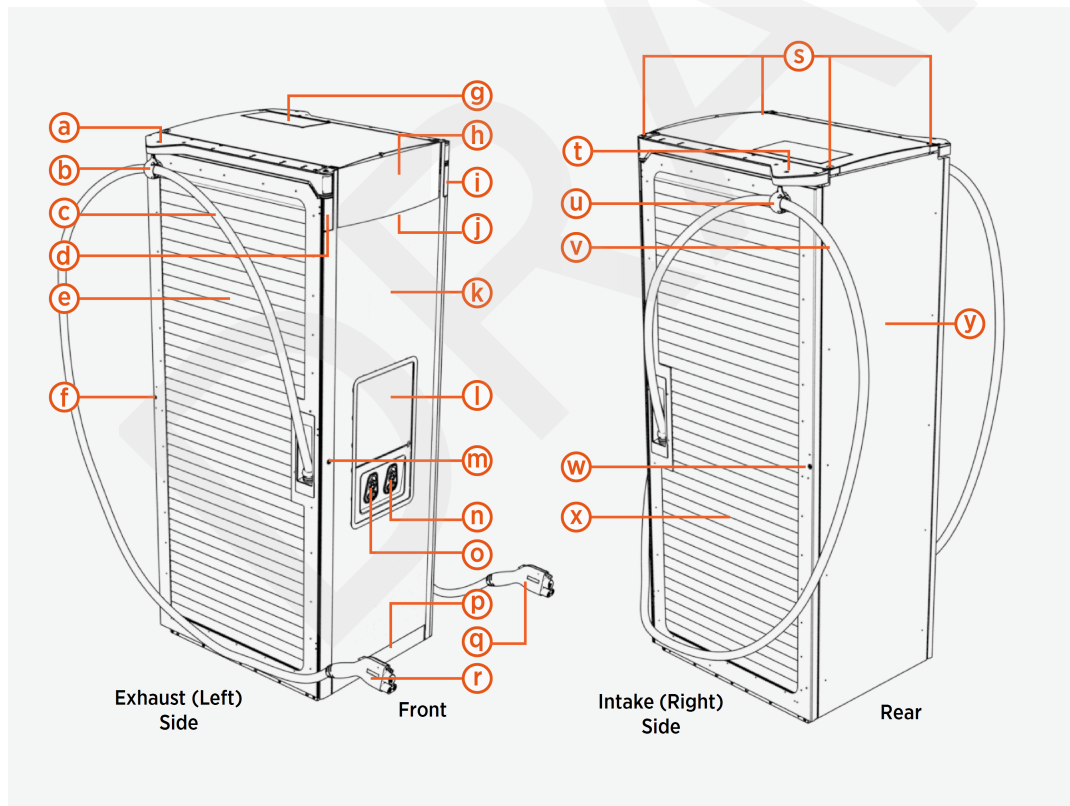
This document is applicable to Express Solo (including all variants and options).
The purpose of this document is to provide all information needed to safely install Express Solo.

Express Solo Overview

This section provides a high level overview of Express Solo.

Exterior Parts

The following provides an overview of Express Solo exterior parts.

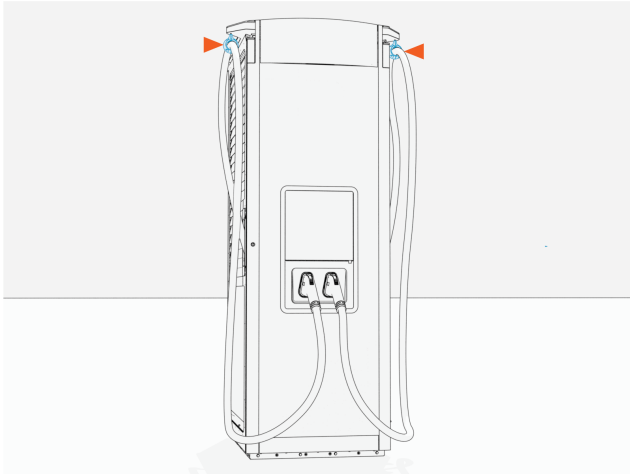


Ref	Part	Function or Definition
(a)	Cable management system, left side	Suspends and manages left charging cable
(b)	Tetherball, left	Connects left charging cable to cable management system
(c)	Charging cable, left	Left-side cable for delivering charging power to EV and facilitating communication between the EV and charging station
(d)	Status LED, left	Displays status of left charging cable
(e)	Exhaust door	Encloses left side of the station and allows exhaust air to leave cabinet
(f)	Exhaust door lock	Keyed lock for exhaust door
(g)	Smart Antenna	Antenna (optional) for boosting cellular signal connection to the station
(h)	Logo plate	Customizable cosmetic plate
(i)	Status LED, right	Displays status of right charging cable
(j)	Area light	Provides lighting for display and holsters
(k)	Display door	Encloses front of the station and hosts the display, holsters, and Communications and Control Module (CCOM)
(l)	Display	Charging station end-user interface
(m)	Display door lock	Keyed lock for display door
(n)	Holster, right	Holsters right charging cable
(o)	Holster, left	Holsters left charging cable
(p)	Bottom plate	Retains front customizable cosmetic vinyl
(q)	Charging connector, right	Connects right charging cable to the EV
(r)	Charging connector, left	Connects left charging cable to the EV
(s)	Lifting points	Hosts eye bolts for hoisting the station
(t)	Cable management system, right side	Suspends and manages right charging cable
(u)	Tetherball, right	Connects right charging cable to cable management system
(v)	Charging cable, right	Right-side cable for delivering charging power to EV and facilitating communication between the EV and charging station
(w)	Intake door lock	Keyed lock for intake door
(x)	Intake door	Encloses right side of the station and allows intake of cooling air
(y)	Rear panel	Encloses rear side of the station

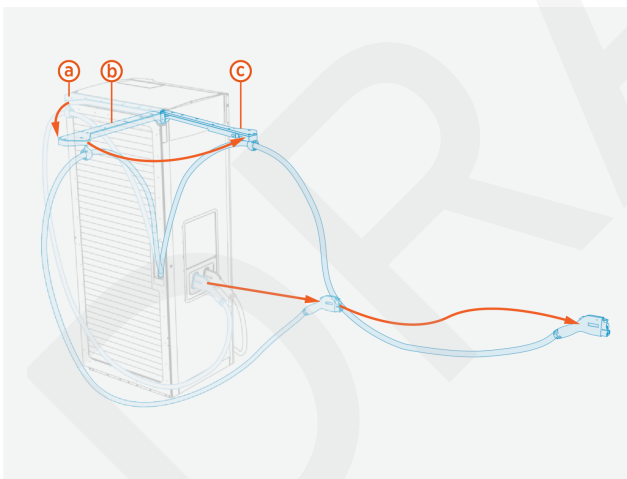
Cable Management System

Express Solo is available with several cable management options:

- **Fixed Tether Point** — Charging cables are suspended from fixed points on left and right sides of the charging station.

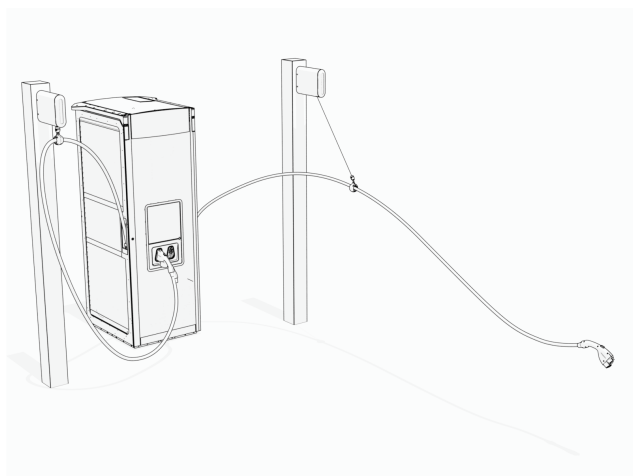


- **Swingarm Cable Management Kit (CMK)** — Moveable arms on left and right sides of the cabinet swing suspended charging cables out and forward for charging and retract cables to rest position between charges.



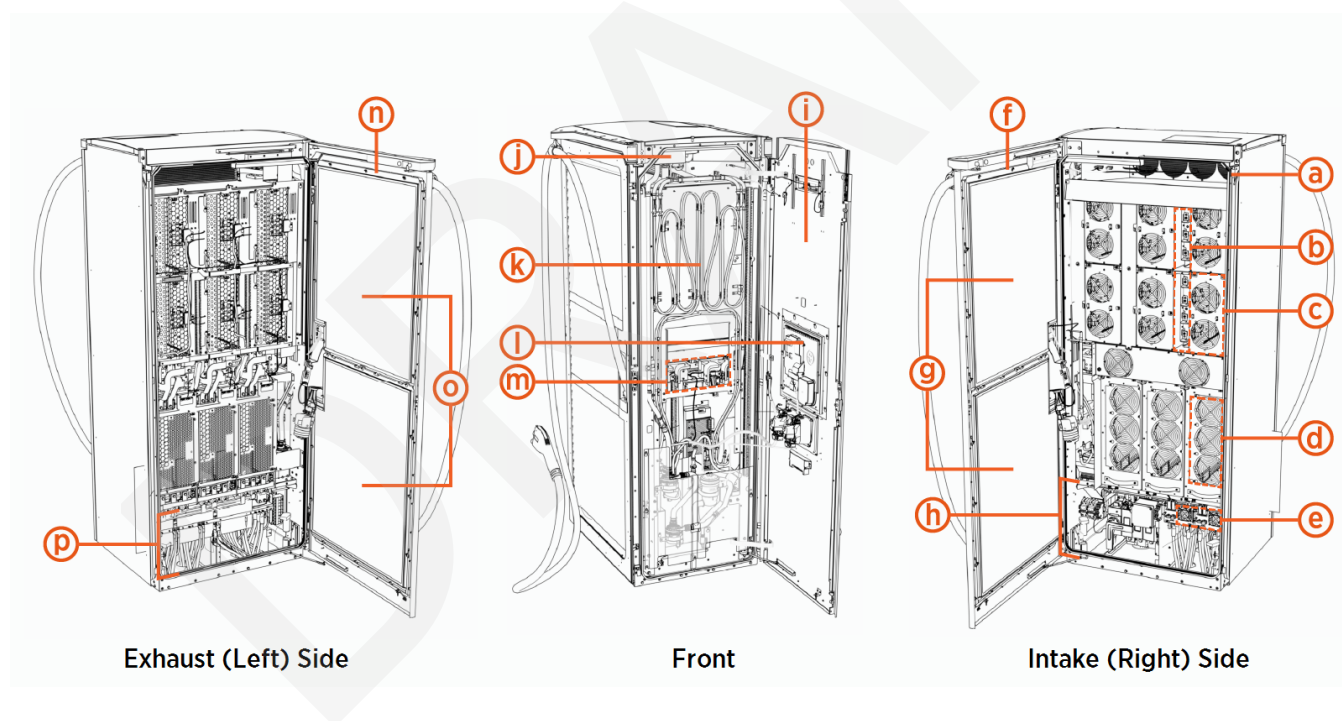
- (a) CMK retracted position
- (b) CMK half open (maximum side extended) position
- (c) CMK fully open (maximum front extended) position

- **Overhead CMK** — An extendable/retractable tetherball suspends charging cables on poles (or other vertical structure) positioned to the left and right of the station.



Interior Parts

This following provides a high level overview of Express Solo interior parts.



Ref	Part	Function or Definition
(a)	Liquid cooled charging (LCC) cable fans	Fans (x4) for cooling the cabinet and internal components. LCC cables are an option.
(b)	Contactor matrix	Switch matrix for directing HV DC output to downstream EVSEs and charging cables
(c)	DC power module	Up to six modules that transform HV DC voltage from

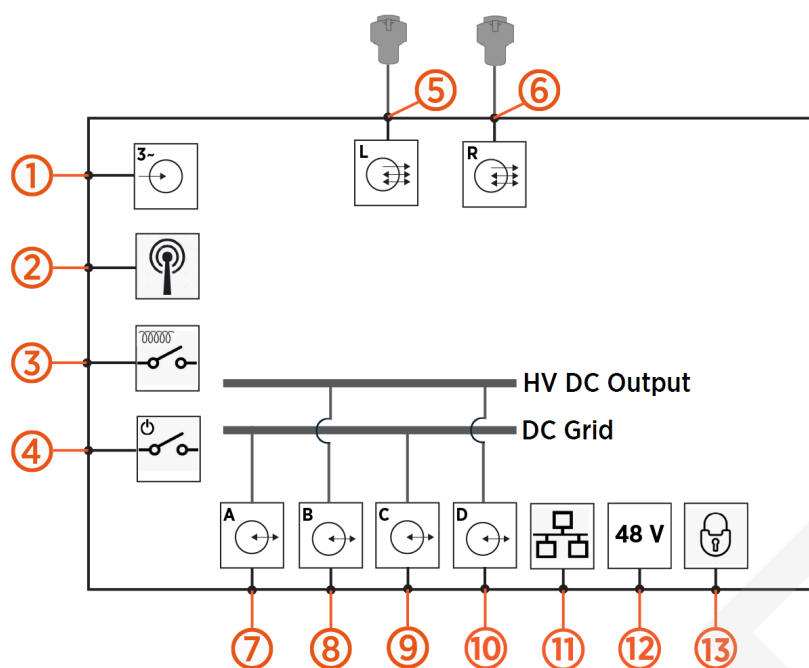
Ref	Part	Function or Definition
		one level to another
(d)	AC power module	Up to three modules that transform between AC power and HV DC power
(e)	Aux power supply modules	Up to two modules that convert AC DC and HV DC power into LV DC system power
(f)	Intake door	Encloses right side of the station and allows intake of cooling air
(g)	Intake air filters	Filters (x2) that remove particles and contaminants from intake air
(h)	Wire terminals and bus bars, intake side	Wire terminals, bus bars, and related components accessible from the intake side (right side) of the station
(i)	Display door	Encloses front of the station and hosts the display, holsters, and Communications and Control Module (CCOM)
(j)	Coolant reservoir	Reservoir for charging cable coolant
(k)	Liquid cooling system	Manages heat generated in charging cables during high-speed charging
(l)	CCOM	Communications and Control Module
(m)	Neutron modules	DC meters (x2: L and R) for HV DC charging cable outputs
(n)	Exhaust door	Encloses left side of the station and allows exhaust air to leave cabinet
(o)	Exhaust air filters	Filters (x2) that prevent particles and contaminants from entering through the exhaust door
(p)	Wire terminals and bus bars, exhaust side	Wire terminals, bus bars, and related components accessible from the exhaust side (left side) of the station

System Interfaces

The following provides a high-level overview of the Express Solo system interfaces. Express Solo has four HV DC interfaces: A, B, C, and D.

- Interfaces A and C, also known as the External DC Links, connect to a DC bus (950 V DC) called the DC Grid, and may be used to pair Express Solos.
- Interfaces B and D connect to a 100 - 1000 V DC bus called HV DC Output, and may be used to provide output to Power Links.

More information on Express Solo pairing is provided in [System Architectures](#). Refer to the *Express Power Link Site Design Guide and Installation Guide* for information on Power Link.

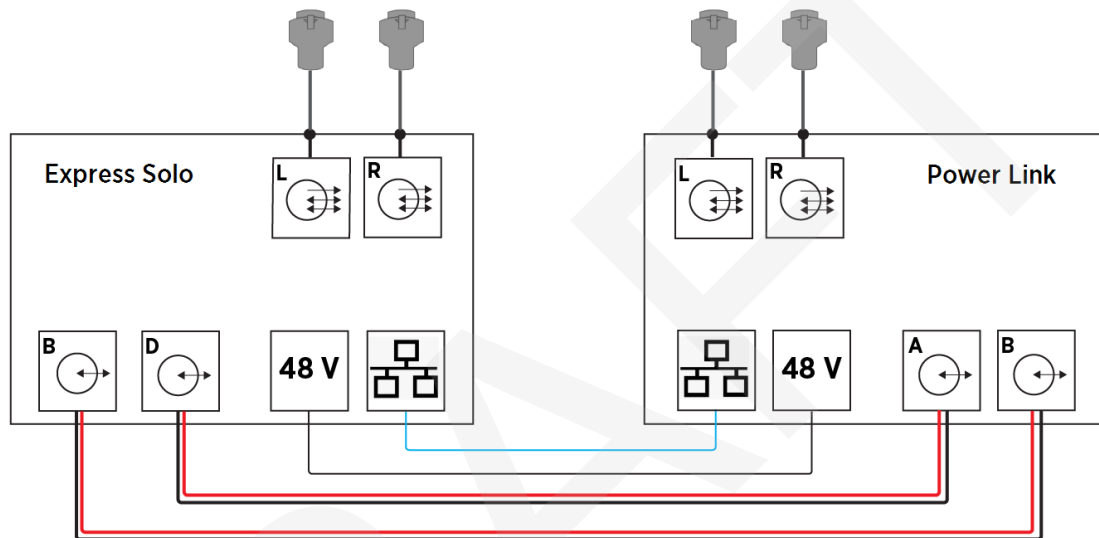


Ref	Interface	Function or Definition
(1)	3-phase AC input	L1, L2, L3, and (optional) neutral AC input
(2)	Cellular	Cellular connectivity between Express Solo and ChargePoint Platform
(3)	Shunt trip	Optional connection to a shunt trip device
(4)	Soft shutdown switch	Optional connection to a soft shutdown switch
(5)	Charging cable, L	Output to left charging cable
(6)	Charging cable, R	Output to right charging cable
(7)	External DC Link or Interface A	Connects to the DC Grid; may be used to pair Express Solos
(8)	Interface B	Connects to the HV DC Output bus; may be used to provide output power to a Power Link
(9)	External DC Link or Interface C	Connects to the DC Grid; may be used to pair Express Solos
(10)	Interface D	Connects to the HV DC Output bus; may be used to provide output power to a Power Link
(11)	Ethernet	Ethernet connectivity between Express Solo and paired EVSEs
(12)	LV DC outputs	LV DC output to paired EVSEs
(13)	Door interlock sensor	Door interlock sensor communication between paired EVSEs

System Architectures

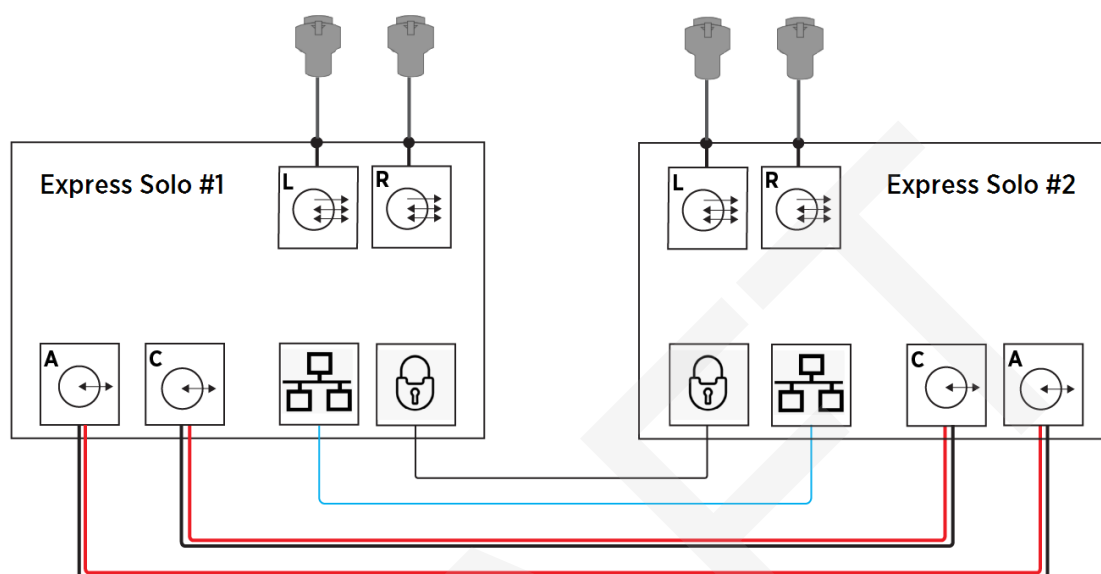
Express Solo may be installed in many system architectures to meet various charging needs:

- Express Solo may be installed as a standalone charging station configured with two charging cables for connection to EVs.
- Express Solo may be paired with up to two Power Links (such as the Power Link 2000). When paired in this architecture, Express Solo provides HV and LV DC output power to each Power Link and there is Ethernet connectivity between the Express Solo and each Power Link. A sample line diagram of this type of architecture is shown below.



Note: See the *Express Power Link Site Design Guide and Installation Guide* for information on Power Link system interfaces.

- An Express Solo may be paired with another Express Solo. When paired in this architecture, the Express Solos are connected via their HV DC links and there is Ethernet connectivity and door interlock sensor connectivity between the Express Solos. A sample line diagram of this type of architecture is shown below.



Note: In this architecture, HV DC interfaces B and D are available for connection to Power Links.



IMPORTANT: The architectures shown above demonstrate only a few of the many supported by Express Solo. The actual architecture for each site will vary depending on the number of stations, the charging capacity required at each charging station, charging requirements, and other criteria. If you are a site designer, contact a ChargePoint representative for the ChargePoint-approved wiring architecture for your specific project. Systems configured with non-approved wiring between Express Solo and paired EVSEs may not function as expected. If you are an installer, see the site plan for the architecture specific to the site.

Express Solo Guides

Access ChargePoint documents at chargepoint.com/guides.

Document	Content	Primary Audiences
Datasheet	Full station specifications	Site designer, installer, and station owner
Site Design Guide	Civil, mechanical, and electrical guidelines to scope and construct the site	Site designer or engineer of record
Construction Signoff Form	Checklists used by contractors to	Site construction contractor

Document	Content	Primary Audiences
	ensure the site is correctly completed and ready 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, navigate to chargepoint.com/support and contact technical support using the appropriate region-specific number.

Prepare for Installation 2

Follow all instructions provided in this chapter to prepare for installation.

Check Site Readiness

To check site readiness, complete this checklist before you install Express Solo.

Express Solo Site Readiness Checklist		
1.	The slope at the installation site does not exceed 10 mm per meter (0.12 in per ft). If necessary, use a grinder or a hammer and chisel to remove any concrete that is not level with the rest of the concrete pad or surface.	☐
2.	The concrete pad or concrete surface meets the mounting specifications given in the <i>Express Solo Site Design Guide</i> and/or is inspected and approved by a structural engineer for the dimensions and weights (as given in the <i>Express Solo Site Design Guide</i>).	☐
3.	Wires and conduits meet the requirements given in the site drawings.	☐
4.	The electrical equipment is installed and labeled in accordance with the applicable national electrical code — such as NFPA70, the Canadian Electrical Code (CSA No 22.1), IEC 60364, or BS7671, depending on the intallation region — 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 <i>Express Solo Site Design Guide</i> .	☐
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.	☐
7.	The anchor bolts, conduits, and concrete pad meet the requirements listed below: • The anchor bolts are installed, are 127 mm (5 in) high from the concrete pad, and are plumb. • The conduits or armored cables are laid per the conduit layout given in the <i>Express Solo Site Design Guide</i>. • In regions that use conduits, the conduits do not have bell ends, are plumb, and stub up to a height of 13–25 mm (0.5–1 in) from the concrete pad. Conduits with bell ends may interfere with tolerances inside Express Solo. • The concrete pad is fully cured and smooth.	☐

Check Electrical Readiness

Refer to the *Express Solo Datasheet* and *Express Solo Site Design Guide* at chargepoint.com/guides for electrical input and output specifications.

Bring These Tools and Resources

Installing Express Solo requires at least two people. Additionally, the installer must bring the following tools and resources. 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 Express Solo 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



Construction crane

- For standard installation
- Rated for TBD kg (TBD lb)



Forklift with anti-slip forks

- For low clearance installation
- Rated for $\geq$ TBD kg (TBD lb)
- Fork specifications:
 - Width = TBD mm (TBD in)
 - Thickness $\leq$ TBD mm (TBD in)



Stepladder



Industrial vacuum cleaner



Wire brush (to remove any residue on anchor bolts)



Safety glasses



Hard hat



Cut-resistant gloves



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		Wire strippers
	Lug crimping tool and die		Ethernet (RJ45) connector crimping tool
	Torque wrench		Torque screwdriver
	Shallow hex socket set (8 mm, 10 mm, 13 mm, 17 mm) and 30 mm deep socket		Hex wrench set
	Torx screwdriver (T20, T30)		T25 Security screwdriver
	Flathead screwdriver set, including 3.5 mm and 5 mm tip for terminal blocks		Phillips head screwdriver set
	Torque paint pen		Permanent marker
	Anti-oxidant joint compound (to make gastight joint between wire and lug) and wire pulling lubricant		Dielectric grease
	Duct seal compound		Paper towel roll
	Cable ties		Cling film (plastic wrap)



Smartphone with:

- Internet connectivity



- QR code scanner (usually built into the camera app)



- ChargePoint installer login credentials



- 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 the typical charging application, neutral is not required. If considering an application for V2G, neutral may be required. For more information, navigate to chargepoint.com/support and contact technical support using the appropriate region-specific number.
- For low voltage (LV) DC wiring, use only copper wires (XHHW/XHHW-2 based on site condition, dry or wet) rated for 75 °C (167 °F).
- For shunt trip wires, use wires rated for more than 400 V.
- 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.
- When using aluminum lugs, ChargePoint recommends using an appropriate antioxidant compound on aluminum conductors when terminating into tin-, nickel-, or silver-plated lugs, where required by code or specified by the lug manufacturer.



IMPORTANT: Following are wire specifications for Express Solo, 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
AC Input	Max. 18 wires (six per phase)	EU: Max. 150 mm ² NA: Max. 300 MCM	Lug: Compression lug. Short barrel and tongue with single hole sized for M12 (0.5 in) stud. Max. tongue width: 36 mm (1.3 in).
AC Ground (PE)	Max. 3 wires (1 per AC conduit)	Refer to local code for size	Lug: Short barrel and tongue with single hole sized for M6 (0.25 in) stud.
HV DC Interfaces A, B, C, D	Max. 8 wires per interface (four per pole)	EU: Max. 150 mm ² NA: Max. 350 MCM	Lug: Compression lug. Short barrel and tongue with single hole sized for M12 (0.5 in) stud. Max. tongue width: 36 mm (1.3 in).
High power ground	Max. 2 wires per interface (1 per interface conduit)	Refer to local code for size	Lug: Short barrel and tongue with single hole sized for M6 (0.25 in) stud.
LV DC output	Max 4 wires (2 wire pairs; each pair has one wire per pole)	16 mm ² (6 AWG)	Stripped wire end
Ethernet	Max. 3 cables 1 per Power Link 1 for hardwire Ethernet (if needed)	Outdoor-rated Cat6 STP*	RJ45 connector, shielded
Door interlock sensor	2 wires	1.5 mm ² (16 AWG)	Stripped wire end
Safety Hub	2 wires	2.5 mm ² (14 AWG)	Stripped wire end
Soft shutdown switch	2 wires	2.5 mm ² (14 AWG)	Stripped wire end
Shunt trip	2 wires	2.5 mm ² (14 AWG)	Stripped wire end

***Note:** The required Ethernet cable type depends upon the cable run length. See the *Express Solo Site Design Guide* for details.

Express Solo Packages

Use the following information to transport product packages to the installation site and unpack Express Solo.



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 Dimensions and Weights

Package	Dimensions (L x W x H)	Max. Weight
Express Solo (Product assembly on shipping pallet)	1.12 x 1.32 x 2.5 m (44.1 x 51.8 x 98.4 in)	TBD
Cable Landing Jig	TBD	TBD
Overhead CMK	0.45 x 0.40 x 0.18 m (17.50 x 15.88 x 7 in)	12 kg (25 lbs)

Express Solo Package

After uncrating Express Solo, check for the following components:

Note: For any missing component, [contact ChargePoint support](#).

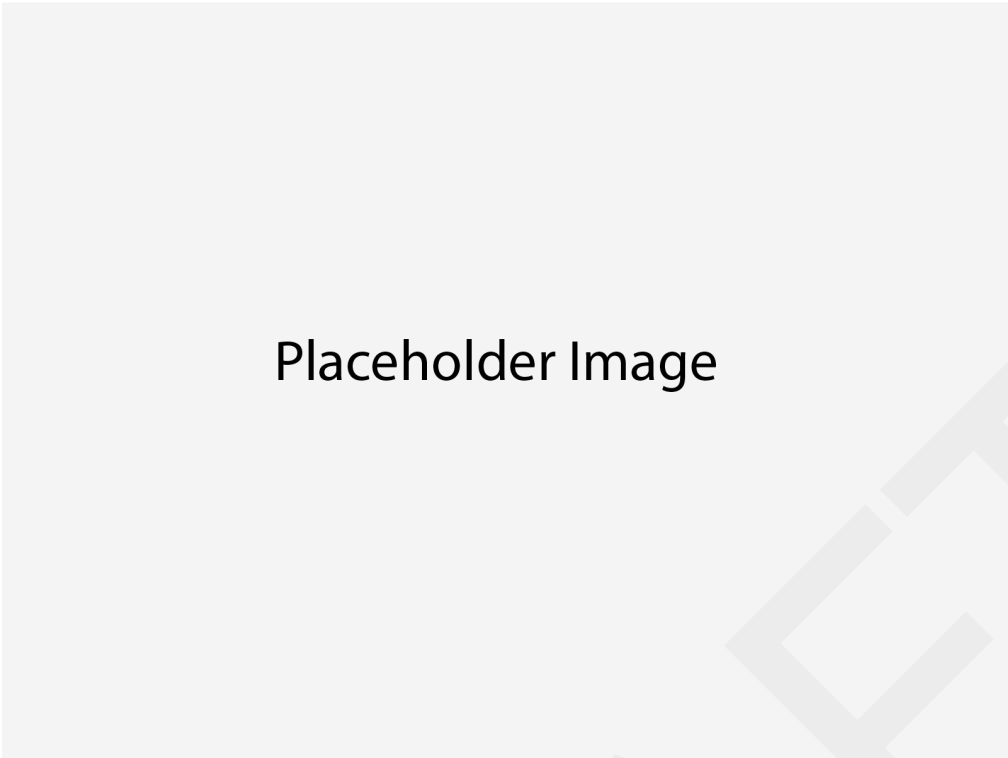
Placeholder Image

- (a) Express Solo assembly
- (b) Charging cables (Up to x2, depending on configuration)
- (c) Hardware box with:
 - i. Eye bolts (x4) - Enables lifting of the assembly
 - ii. Lifting straps (x2) - Enables lifting of the assembly
 - iii. Keys (x2) - Opens the front, intake (left) and exhaust (right) doors
 - iv. M20 anchor nuts (x4) - Secures the assembly to foundation
 - v. M10 nuts (xTBD) - Secures wires to the AC and HV DC terminals
 - vi. Door lock plugs (x3) - To plug the door locks at completion of install

Cable Landing Jig Package

Unpack the Express Solo Cable Landing Jig package and check for the following components:

Note: For any missing component, [contact ChargePoint support](#).



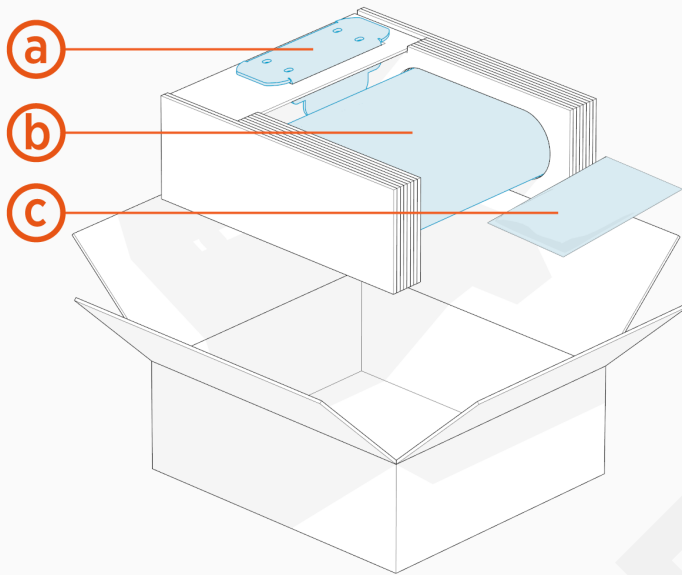
Placeholder Image

- (a) AC cable jig components
- (b) DC cable jig components
- (c) Jig alignment plate

Overhead CMK Package (Optional)

Check the overhead CMK package for the following components:

Note: For any missing component, [contact ChargePoint support](#).



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

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 physical installation. An authorized commissioning partner will commission, power on, pinpoint, and configure Express Solo after physical installation.

Mount Express Solo 3

Follow all instructions provided in this chapter to mount Express Solo.



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 chargepoint.com/installers 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.



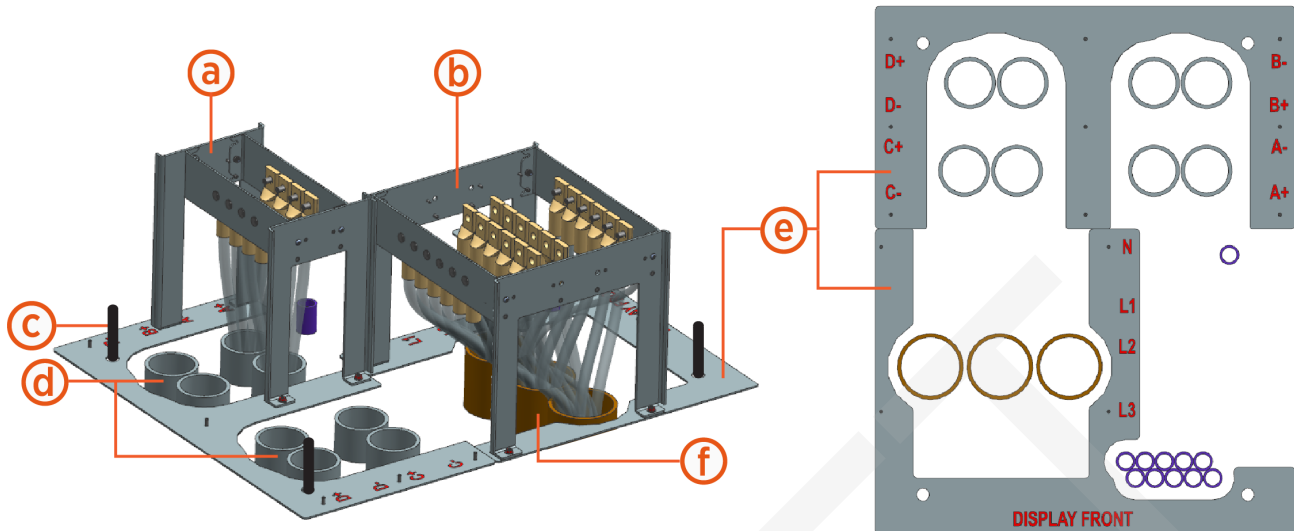
IMPORTANT: Ensure that the installation complies with all applicable codes and ordinances.

Wire Preparation Overview

Before mounting Express Solo, AC input and HV DC wires must be pulled through conduit and positioned for landing using cable jigs. The cable jigs simulate the location of the bus bars within Express Solo.



IMPORTANT: Conduit size and quantity are shown for illustrative purposes only. The actual quantity and size of conduits and wires for your specific site may vary and shall depend on site specific requirements. Use this diagram solely to review usage of the cable jigs.



Ref	Part	Function or Definition
(a)	HV DC interface cable landing jig	Positions HV DC interface cables for landing on bus bars. Use once at each HV DC interface conduit locations A, B, C and D. The image above shows the jig at positioned over HV DC Interface A conduits
(b)	AC input cable landing jig	Positions AC input cables for landing on bus bars
(c)	Anchor bolts	Concrete-embedded anchor bolts
(d)	HV DC interface cable conduit stub-ups	Stubbed conduits for HV DC interface wires
(e)	Jig alignment plate	Two-part plate that installs over anchor bolts and aligns cable jigs in correct position over conduits
(f)	AC input cable conduit stub-ups	Stubbed conduits for AC input wires

Pull and Test AC Input and HV DC Wires

Follow the procedure below to pull and test AC input wires, External DC Link (HV DC interface A and C) wires, and HV DC interface B and D wires.

1. Align and lower the jig alignment plate over the anchor bolts and conduit stub-ups. The jig alignment plate consists two separate plates that are positioned side by side on the ground.
2. Label all wires at both ends.
3. There are four different conduit options. Study the line diagram carefully to understand which wires should be pulled through each conduit.

4. Pull the wires through conduit. If necessary, apply a non-conductive wire pulling lubricant.
5. Perform insulation resistance test on the AC input and HV DC wires. Refer to the *High Voltage Wire Insulation Resistance Test Field Guide*.

Prepare AC Input Wires

Procedure for using the cables jig to prepare AC input wires is forthcoming.

Prepare HV DC Wires

Procedure for using the cables jig to prepare HV DC Interface wires is forthcoming.

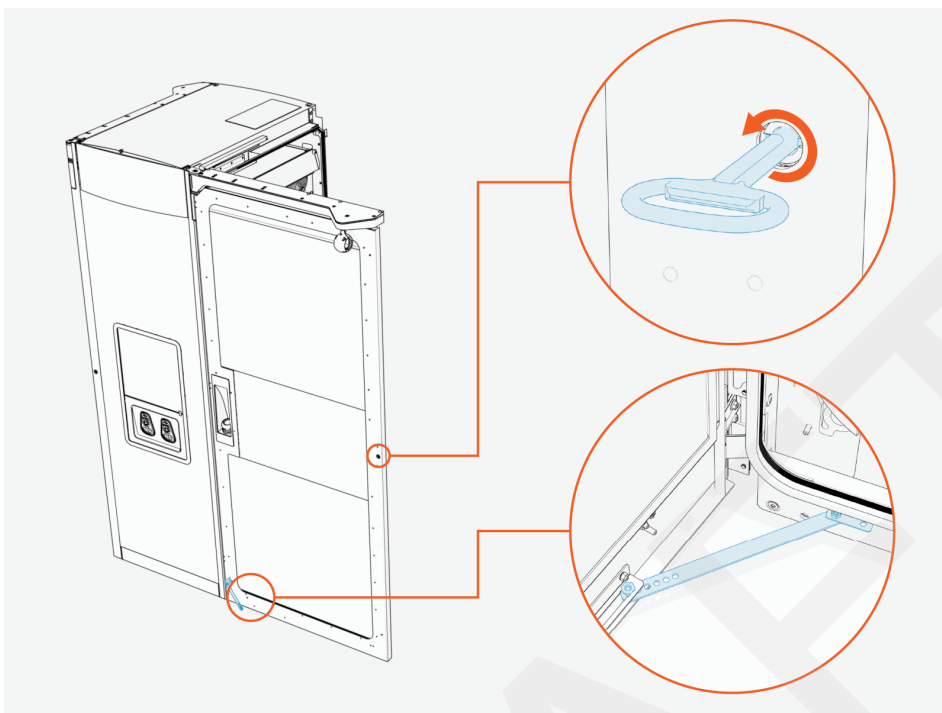
Wrap Wires

1. At each wire lug, apply dielectric grease to the back of the tongue.
2. Use cling film to carefully wrap the AC input and HV DC interface wires. Push the wires inwards slightly before applying the wrap.

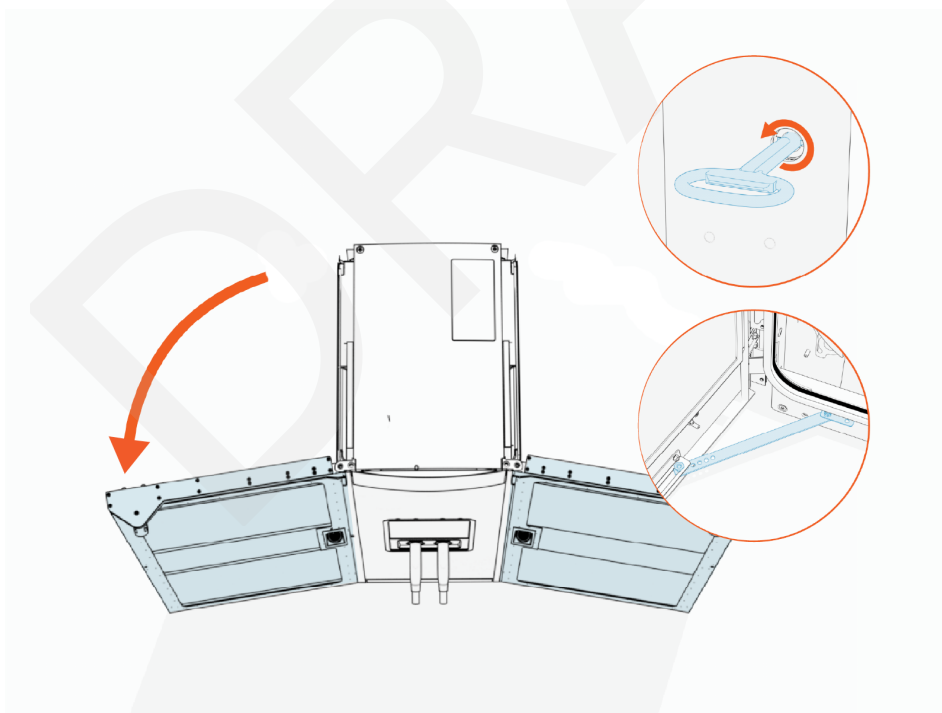
Open Doors and Remove Safety Covers

Follow steps below to open the intake and exhaust doors and remove safety covers.

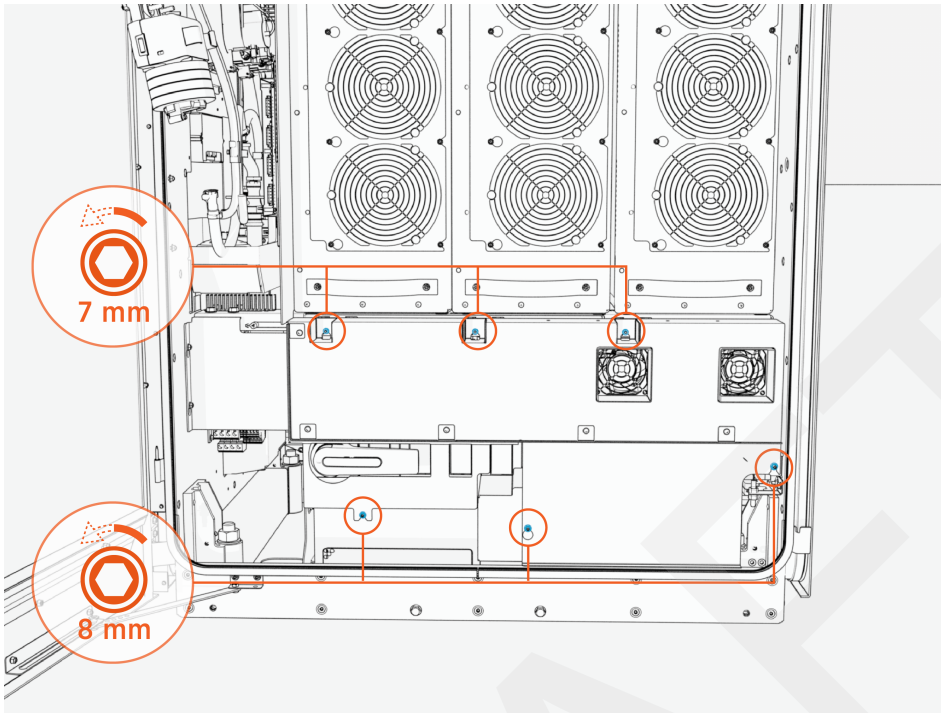
1. Use the door key to unlock the intake (right side) door. Swing the exhaust door open until the door stopper holds the door in open position.



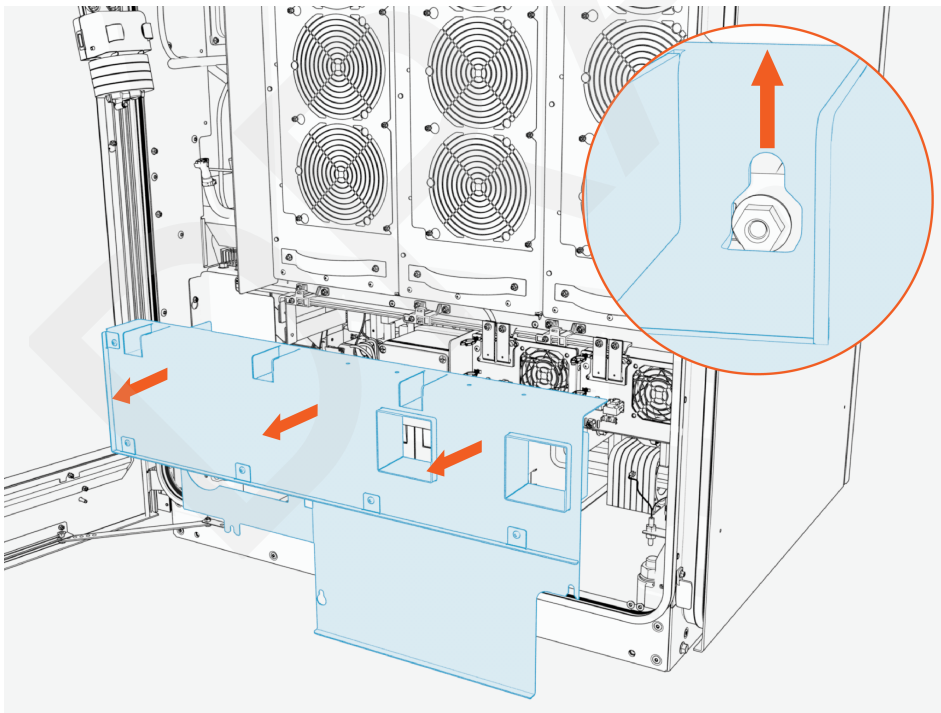
2. Open the exhaust (left side) door in the same manner. Make sure the door stopper holds the door in open position.



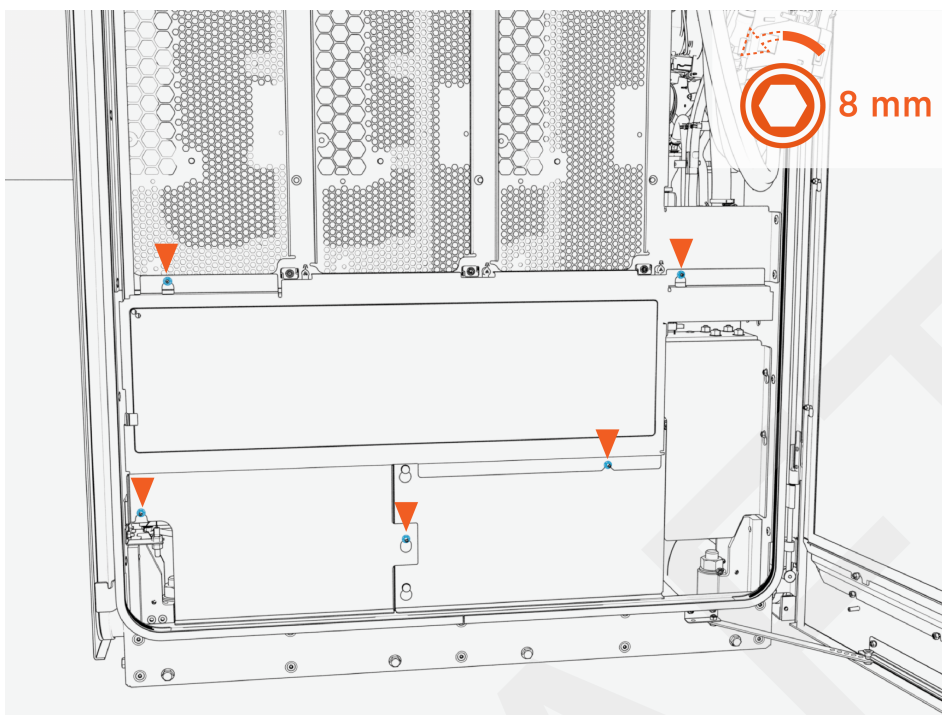
3. On the intake (right) side of the cabinet, loosen (do not remove) the nuts that secure the HV DC bus bars safety cover.



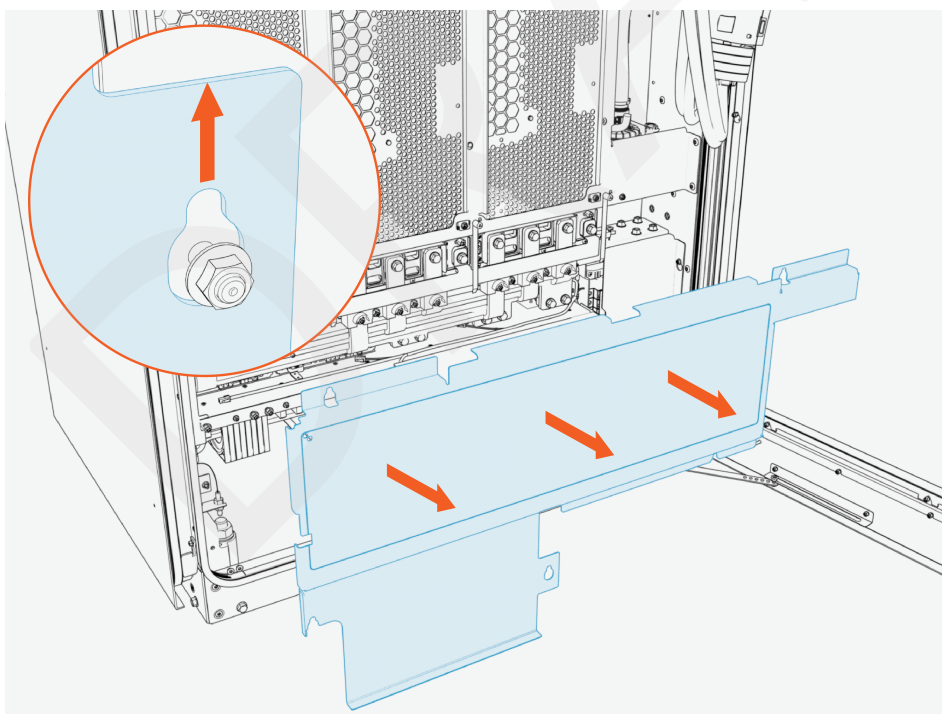
4. Slide the cover upward to release the keyholes. Then pull outward to remove the safety cover.



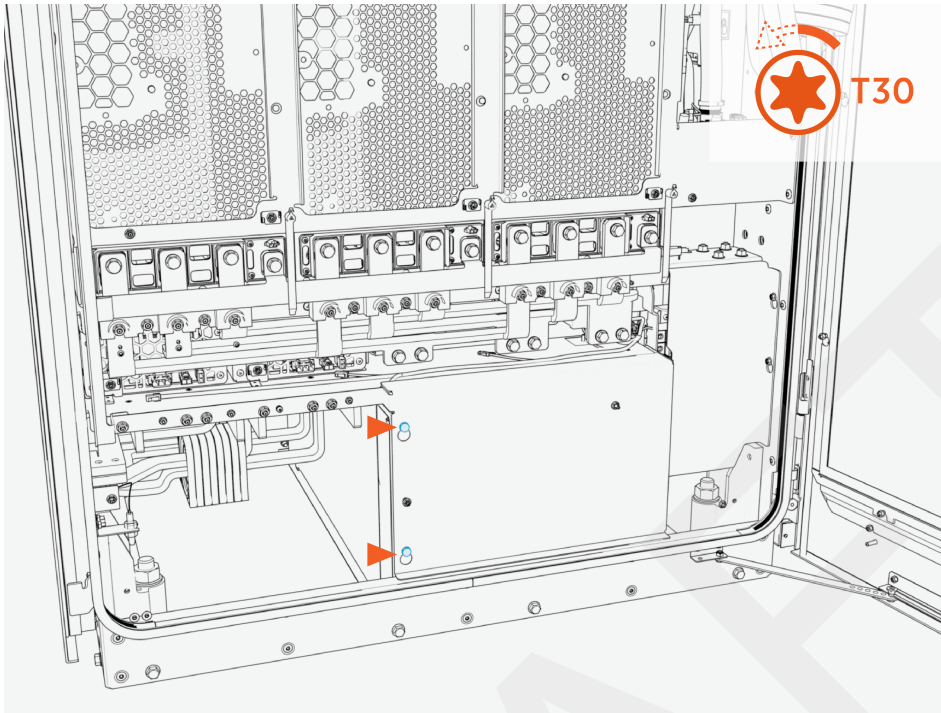
5. On the exhaust (left) side of the cabinet, loosen (do not remove) the nuts (x5) that secure the HV DC bus bar safety cover.



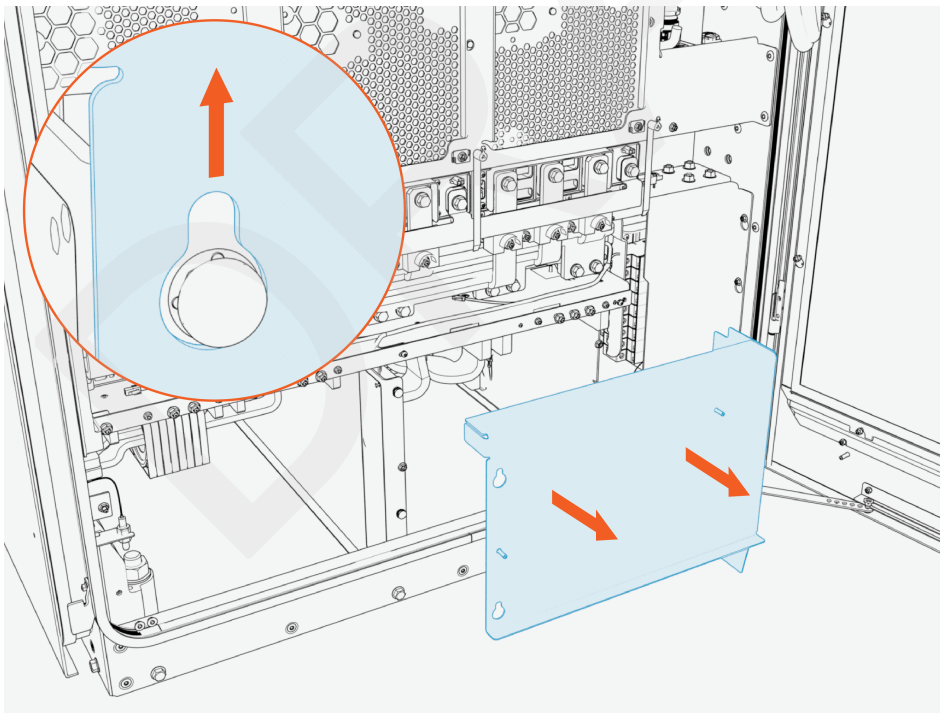
6. Slide the cover upward to release the keyholes. Then pull outward to remove the safety cover.



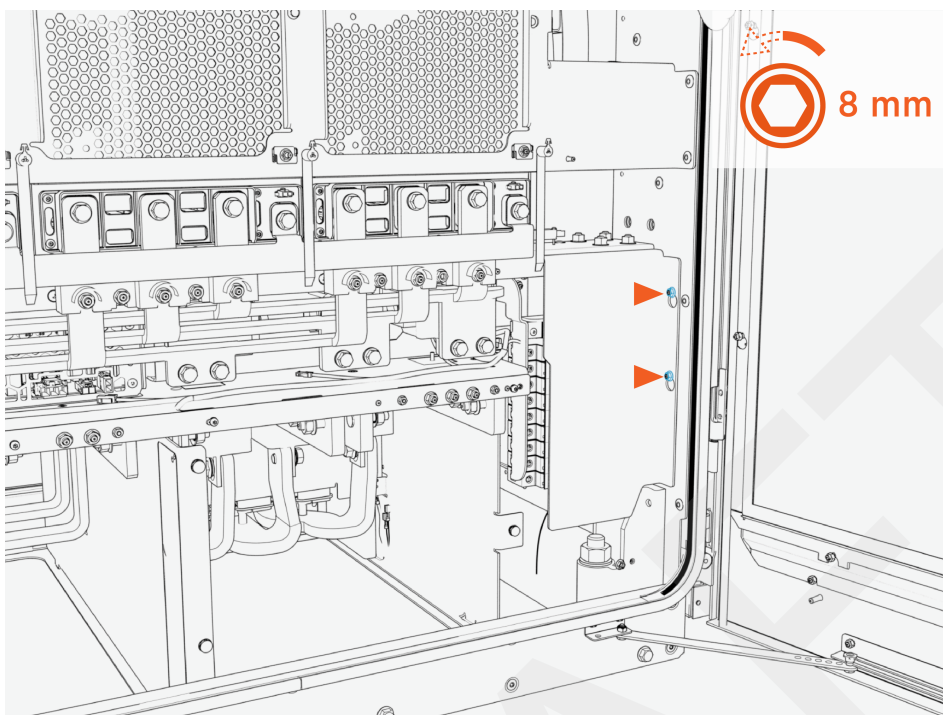
7. On the exhaust (left) side of the cabinet, loosen (do not remove) the nuts (x2) that secure the AC bus bars safety cover.



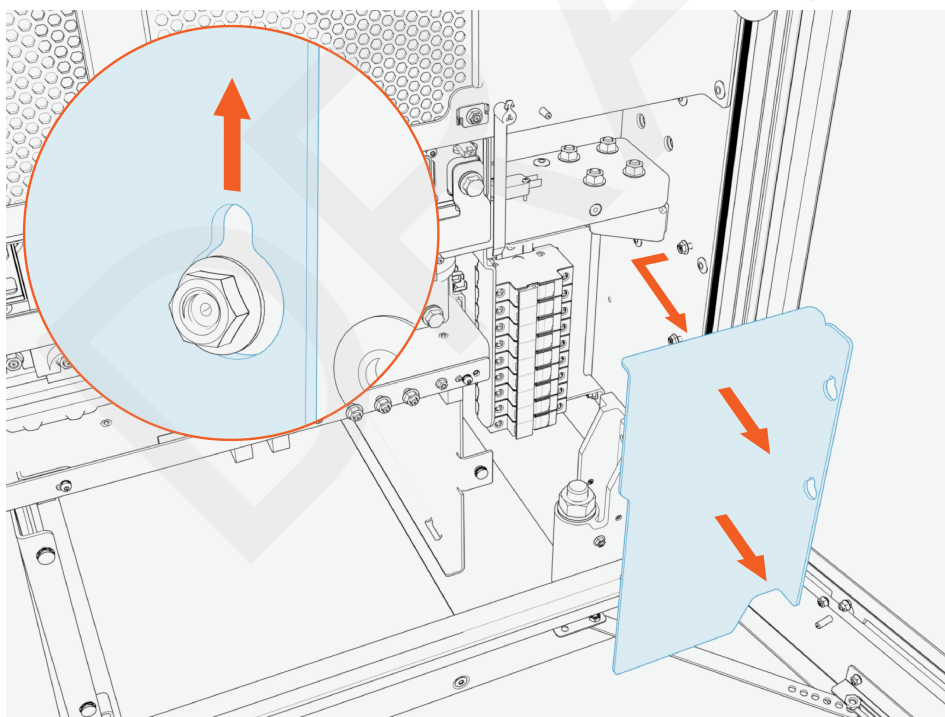
8. Slide the cover upward to release the keyholes. Then pull outward to remove the safety cover.



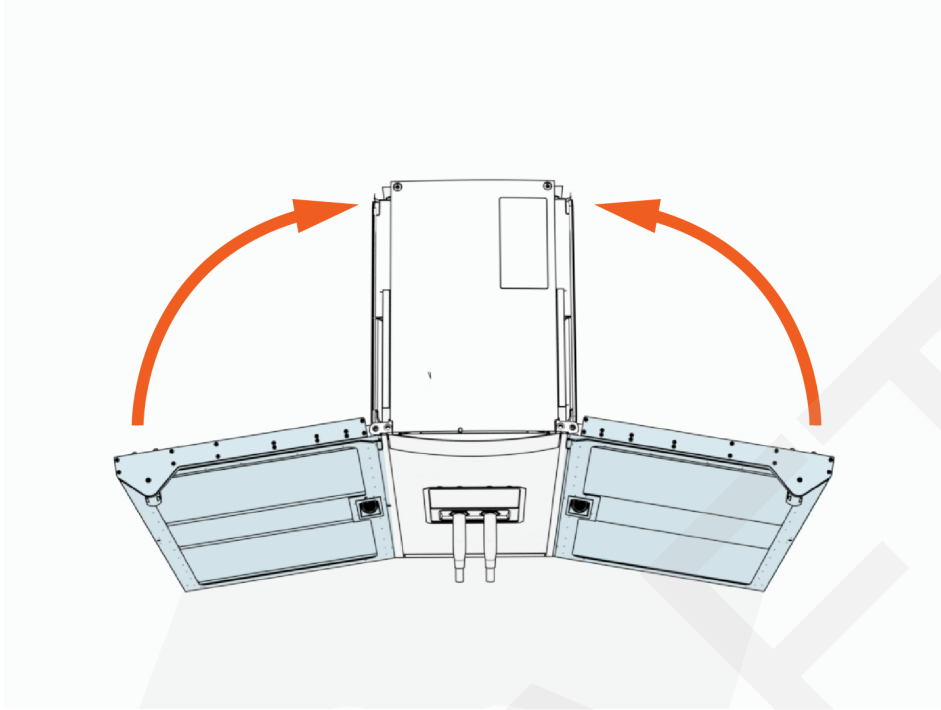
9. On the exhaust (left) side of the cabinet, loosen (do not remove) the nuts (x2) that secure the fuse block safety cover.



10. Slide the cover up to release the keyholes. Then pull outward to remove the safety cover.



11. Disengage the door stays and close (do not lock) the intake and exhaust doors.



Connect Charging Cables to Cable Management System

If Express Solo shipped configured with a swingarm CMK or fixed tether points for charging cables, you may opt to connect the cables to the cable management system prior to mounting Express Solo. Follow steps below to connect charging cables.

1. Install the charging cable tetherballs. See [Install Charging Cable Tetherballs](#).
2. Suspend the charging cables. See [Suspend Charging Cables](#).

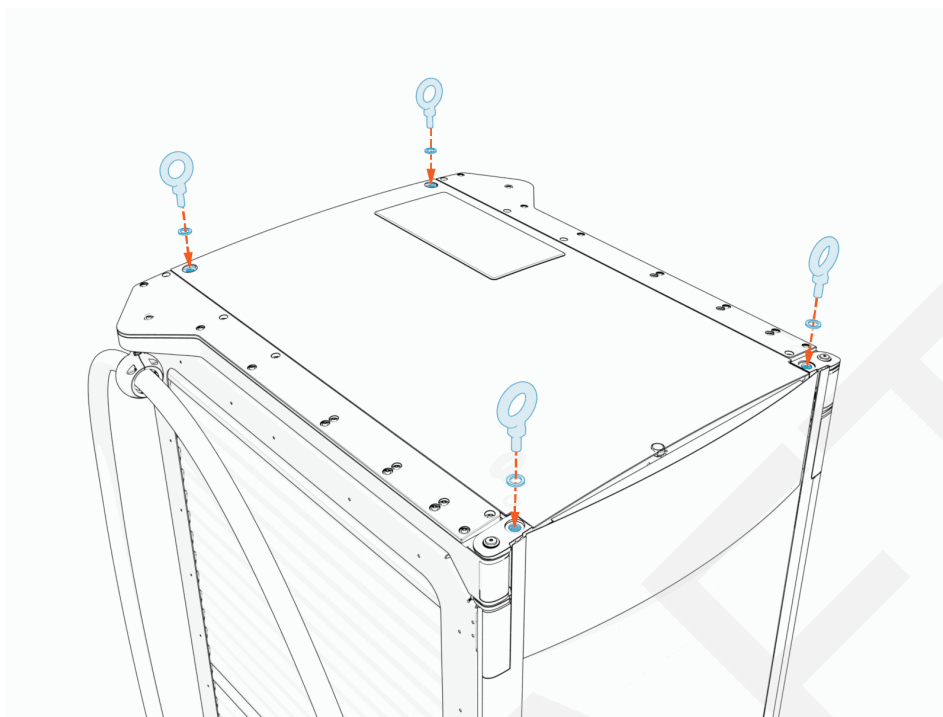
Lift Assembly

To install Express Solo, the assembly must be lifted from the shipping pallet. There two methods for lifting Express Solo:

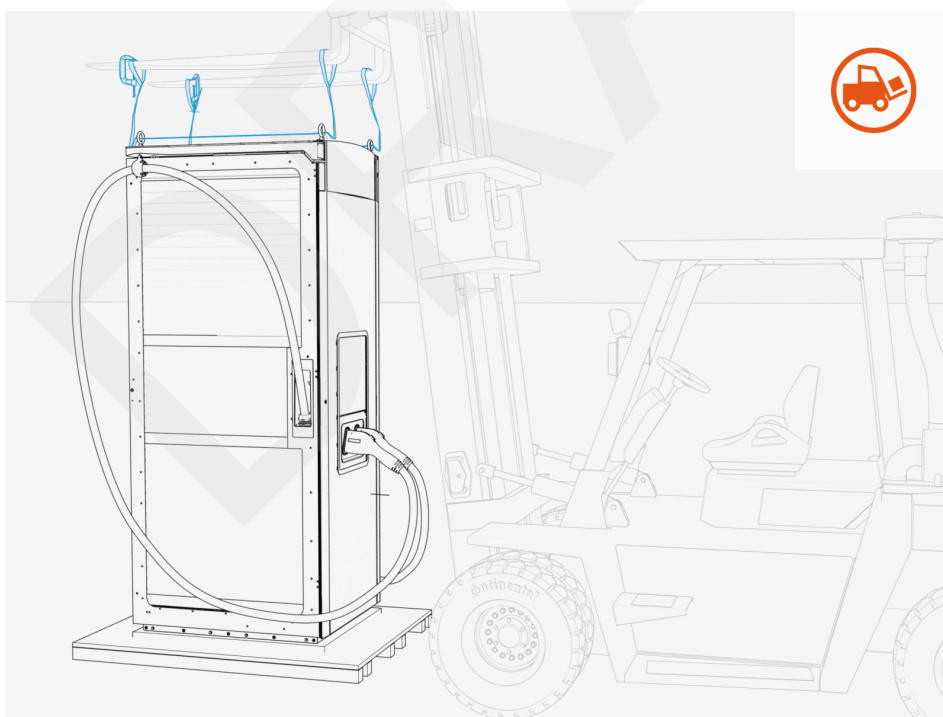
- Standard Eye Bolt Lift: Lift the Express Solo assembly using eye bolts installed at the top of the assembly. This is the most common lift method.
- Forklift Bracket Lift: If installing Express Solo at a site with low clearance, the assembly may be lifted using forklift brackets installed at the sides of the assembly.

Follow instructions here to lift Express Solo using the standard method. If installing at a low-clearance site, see [Appendix: Low Clearance Forklift Bracket Lift](#).

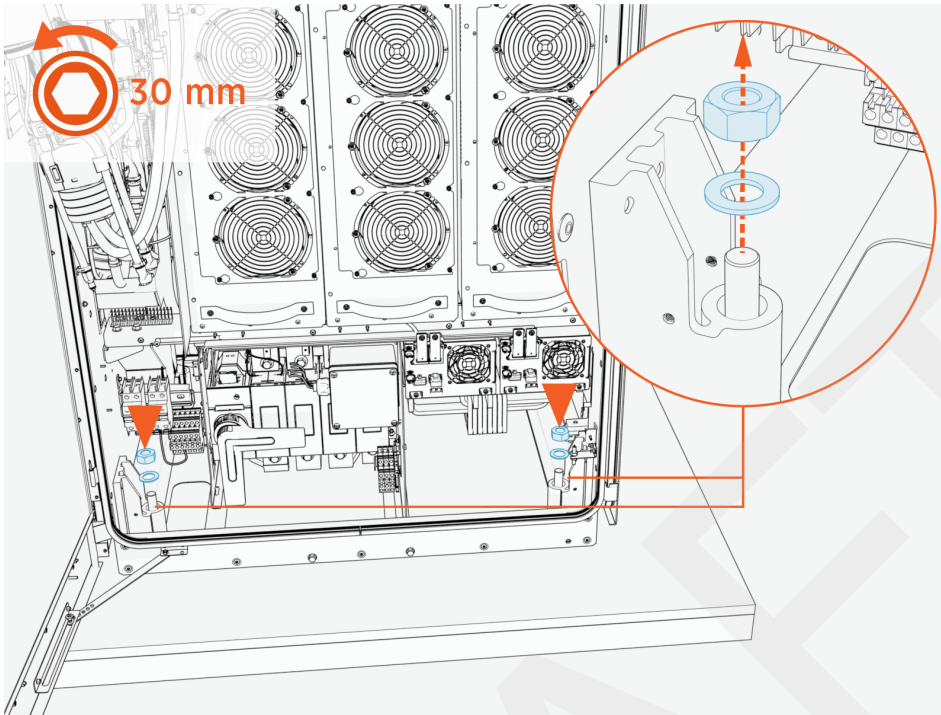
1. Install eye bolts with rubber washers (x4 each). Torque to **2 Nm (18 in-lb)** minimum.



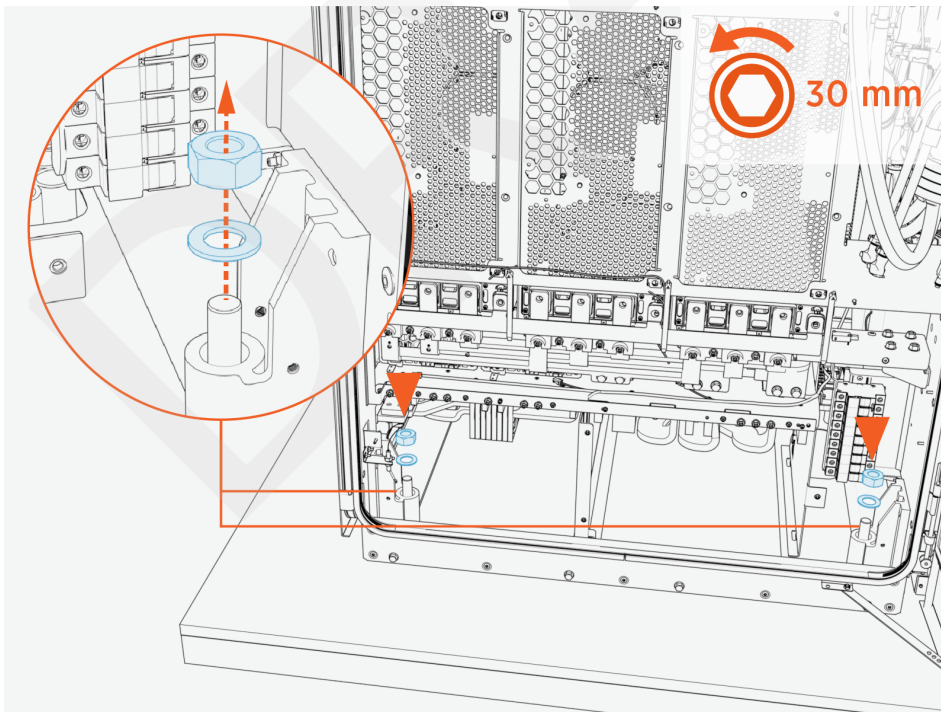
2. Thread lifting straps (x2) through eye bolts and install strap loops to hoisting equipment. Keep the straps slightly slack. Install a clamp on the end of the forklift tines to ensure lifting straps do not slip off tines.



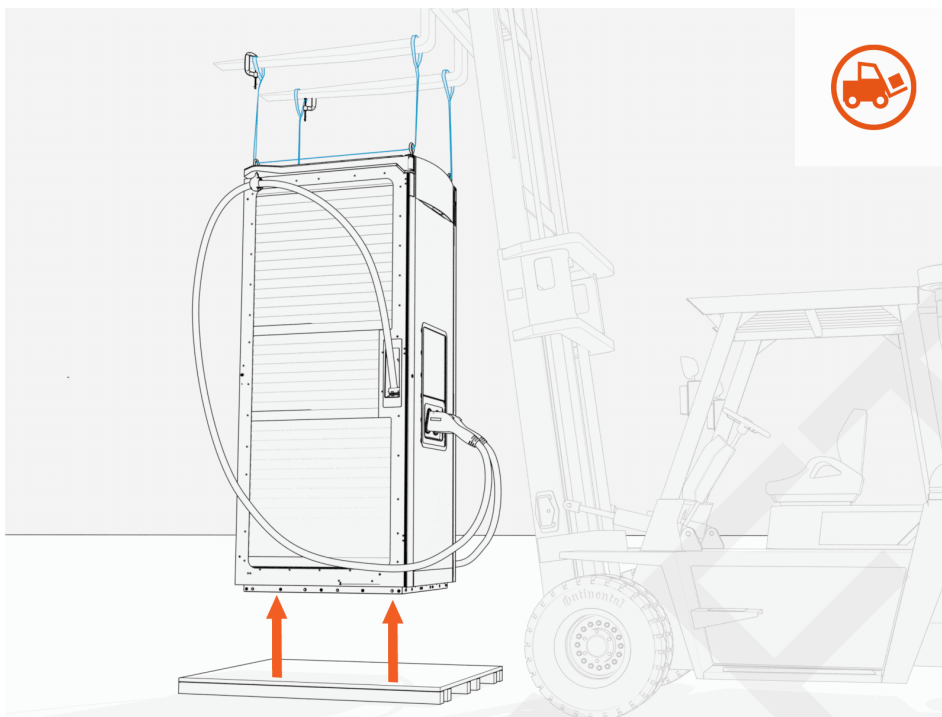
3. Open the intake door and locate two pallet bolts, once at each corner of the enclosure. Remove washer and nut from each pallet bolt.



4. Open the exhaust door and locate two pallet bolts, once at each corner of the enclosure. Remove washer and nut from each pallet bolt.



-
5. Close (but do not lock) the intake and exhaust doors and lift the assembly from the pallet.

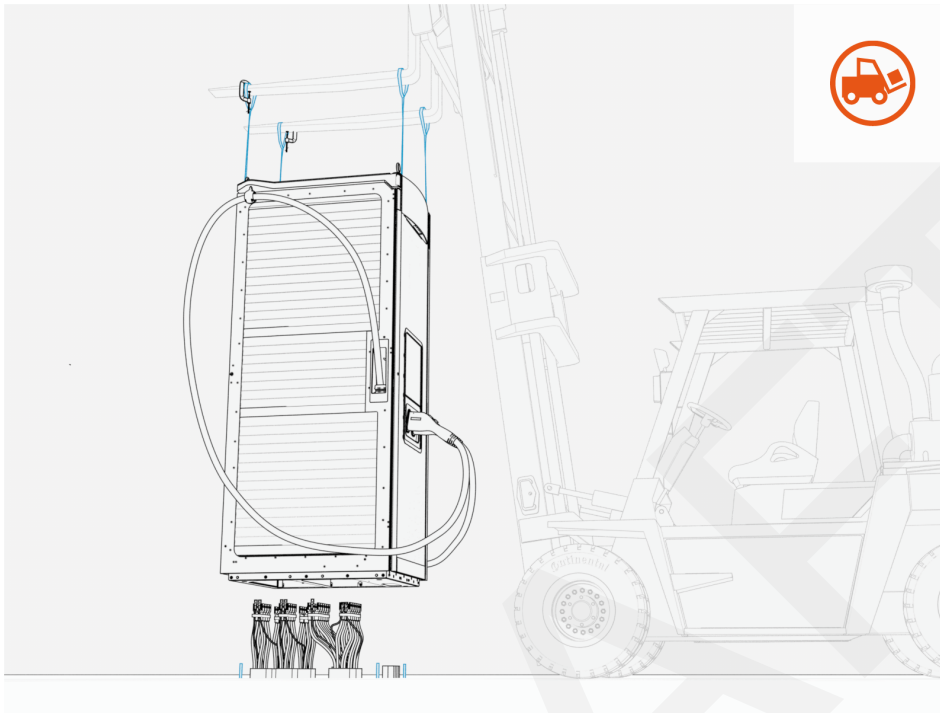


Mount Assembly

Follow steps below to mount the Express Solo assembly. Illustrations depict the mounting procedure when using a forklift and lifting straps to mount the assembly. But the same concept at each step also applies when mounting the enclosure by forklift brackets.

1. Position the assembly over the anchor bolts and prepared cables.

Note: Open the intake and exhaust doors as the assembly is near to the ground, to prepare for alignment of the assembly to the anchor bolts. Make sure the door stays are engaged, holding the doors open.



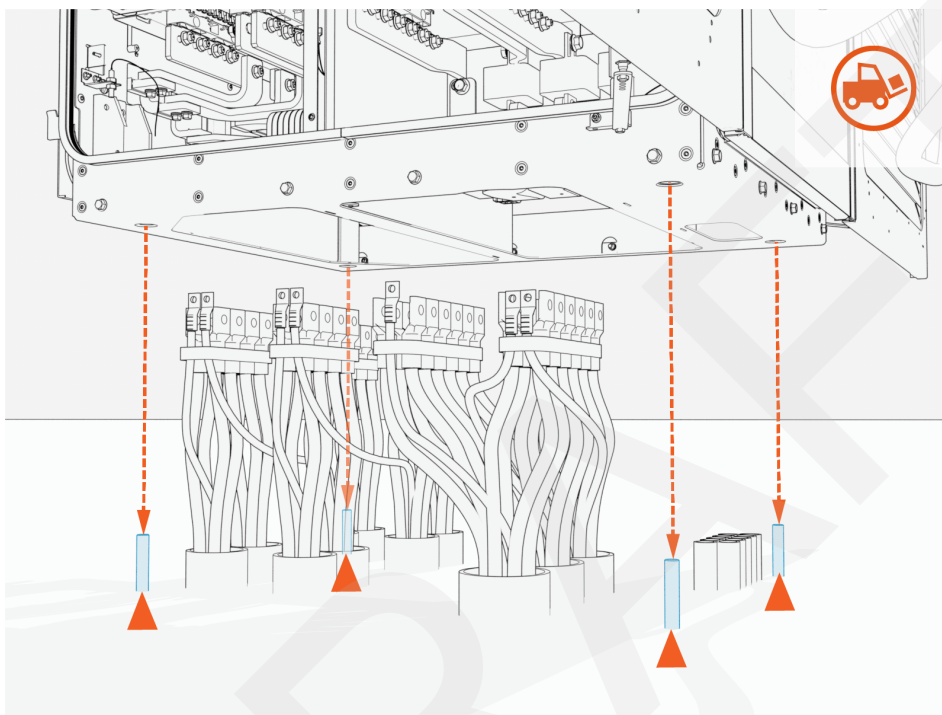
2. Carefully align and lower the assembly over the anchor bolts (x4) and completely onto the ground.



CAUTION: Make sure the AC input and HV DC cables are not disturbed as the assembly is lowered. The cables ends must align to the AC and HV DC bus bars within the assembly.

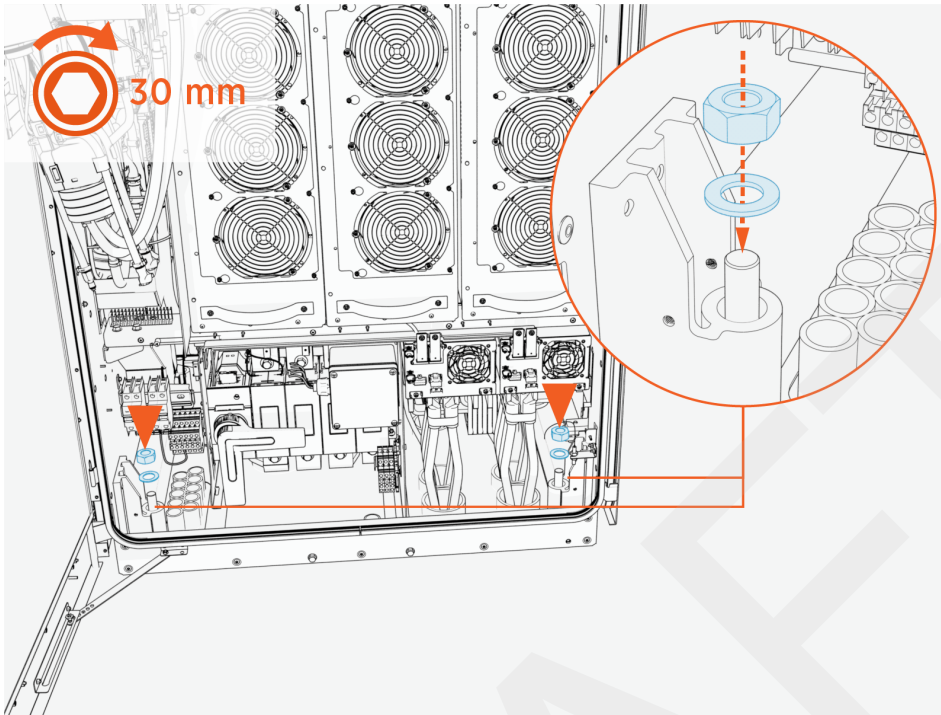


WARNING: Risk of pinching or crushing of body parts. Keep all body parts clear when lowering the assembly to the ground.

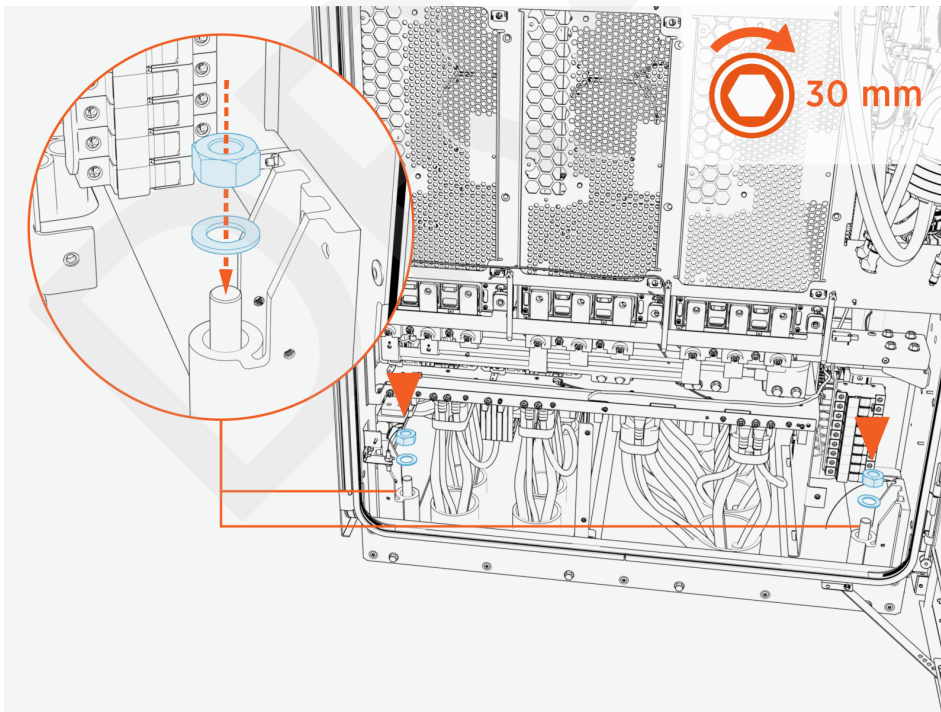


3. Check that the assembly is level and plumb.

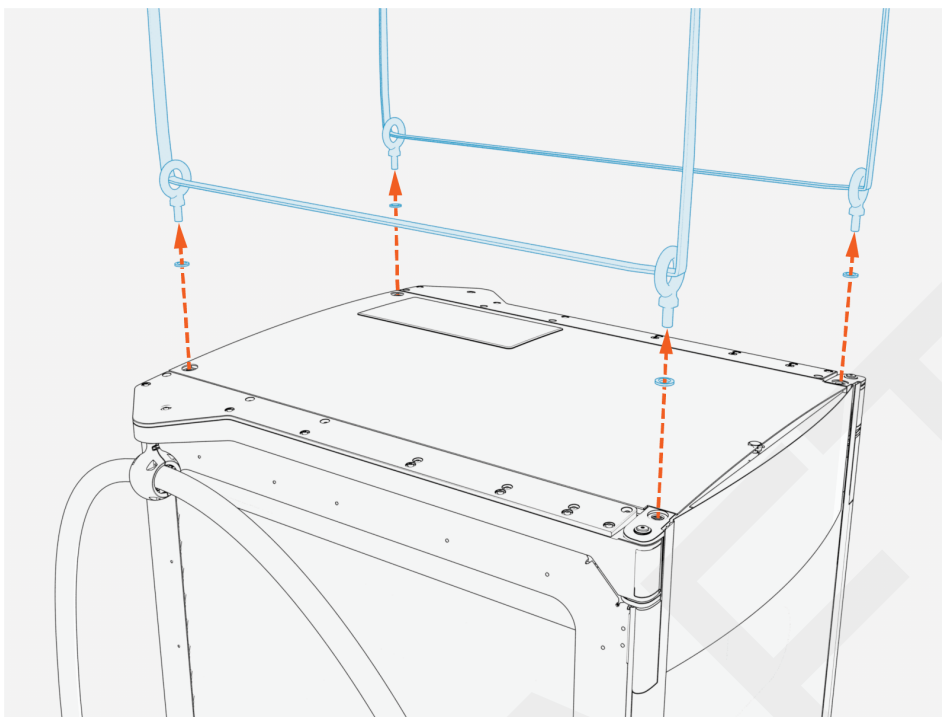
4. On the intake side of the enclosure, install an M20 washer and nut onto each anchor bolt. Torque to **TBD**.



5. On the exhaust side of the enclosure, install an M20 washer and nut onto each anchor bolt. Torque to **TBD**.



-
6. If the assembly was lifted using eye bolts, remove lifting straps, eye bolts, and eye bolt washers.



7. If the assembly was lifted using forklift brackets, remove the forklift brackets by reversing steps used to install the forklift brackets.

Connect Wires 4

Follow all instructions provided in this chapter to connect wires.



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 chargepoint.com/installers 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.

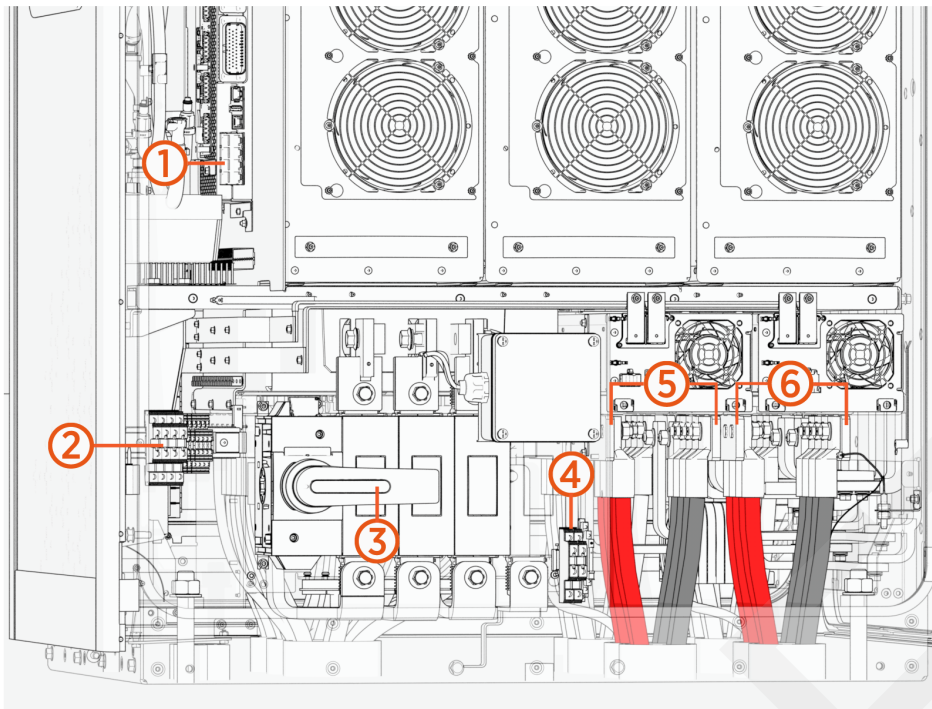


IMPORTANT: Ensure that the installation complies with all applicable codes and ordinances.

Wire Terminal and Bus Bar Locations

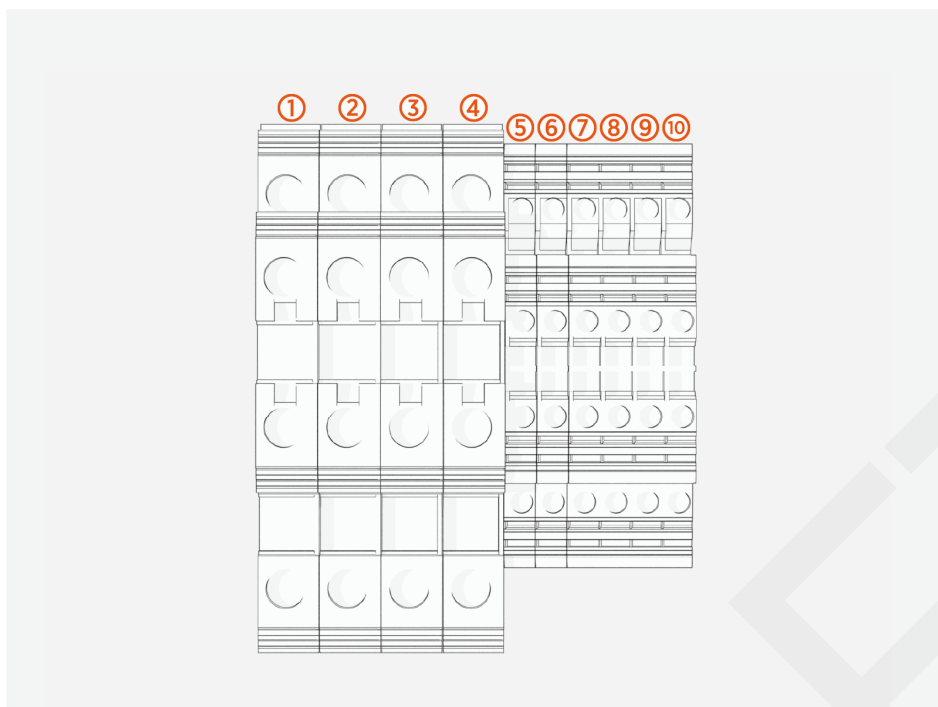
Intake Side

The following identifies the wire terminals, bus bars, and related components accessible from the intake side (right side) of Express Solo.



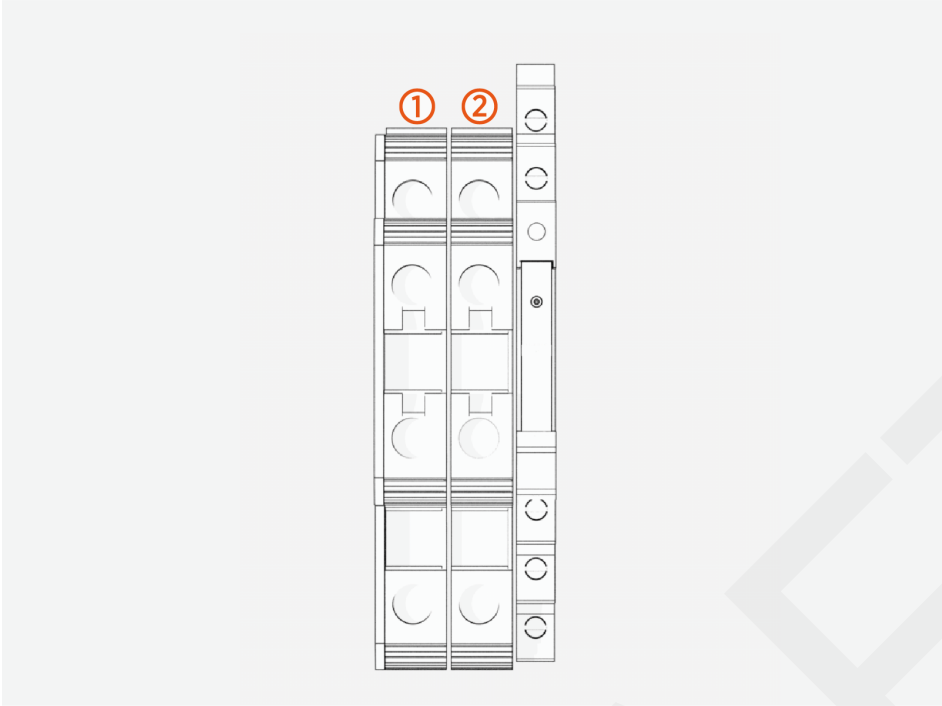
Ref	Part	Function or Definition
(1)	Ethernet ports	Ports for Ethernet connections to paired EVSEs and/or hardwire Ethernet connection
(2)	LV DC terminal block	Terminals for 48 V DC, soft shutdown switch, and door interlock wires
(3)	AC shutoff switch	Manual switch for disconnecting AC power to the system
(4)	Shunt trip terminals	Terminals for shunt trip wires
(5)	HV DC Interface A (External DC Link) bus bars	Landings for HV DC Interface A (External DC Link) wires
(6)	HV DC Interface B bus bars	Landings for HV DC Interface B (External DC Link) wires

The LV DC terminal allocations are given below:



Ref	Allocation
(1)	48 V DC Positive (+) to Power Link #1 and Power Link #2
(2)	48 V DC Negative (-) to Power Link #1 and Power Link #2
(3)	Not used for Express Solo
(4)	Not used for Express Solo
(5)	Soft shutdown switch
(6)	Door interlock
(7)	Not used for Express Solo
(8)	Not used for Express Solo
(9)	Not used for Express Solo
(10)	Not used for Express Solo

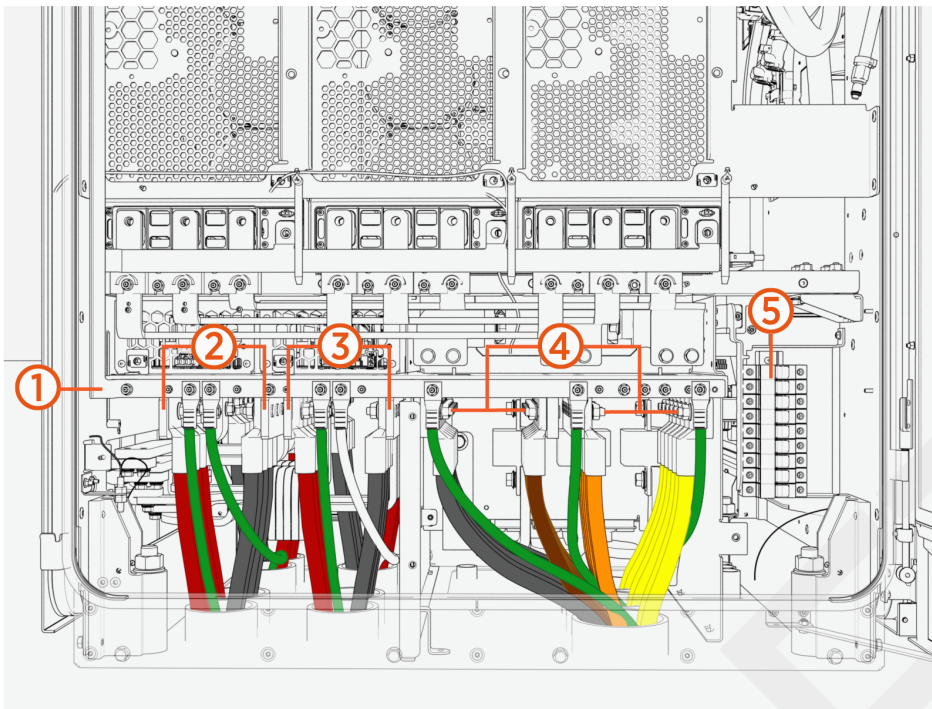
The shunt trip terminal allocations are given below:



Ref	Allocation
(1)	Shunt 1
(2)	Shunt 2

Exhaust side

The following identifies the wire terminals, bus bars, and related components accessible from the exhaust side (left side) of Express Solo.



Ref	Part	Function or Definition
(1)	Ground bar	Ground bar with studs for landing ground (protective earth) wires
(2)	HV DC Interface D bus bars	Landings for HV DC Interface D wires
(3)	HV DC Interface C (External DC Link) bus bars	Landings for HV DC Interface C (External DC Link) wires
(4)	AC input bus bars	Landings for AC input wires
(5)	LV DC fuse block	Protection fuses for LV DC output lines

Unwrap Wires

Carefully remove cling film from the wires.



IMPORTANT: Use caution if using a sharp tool to cut the cling film. Do not damage the wires when removing the cling film.

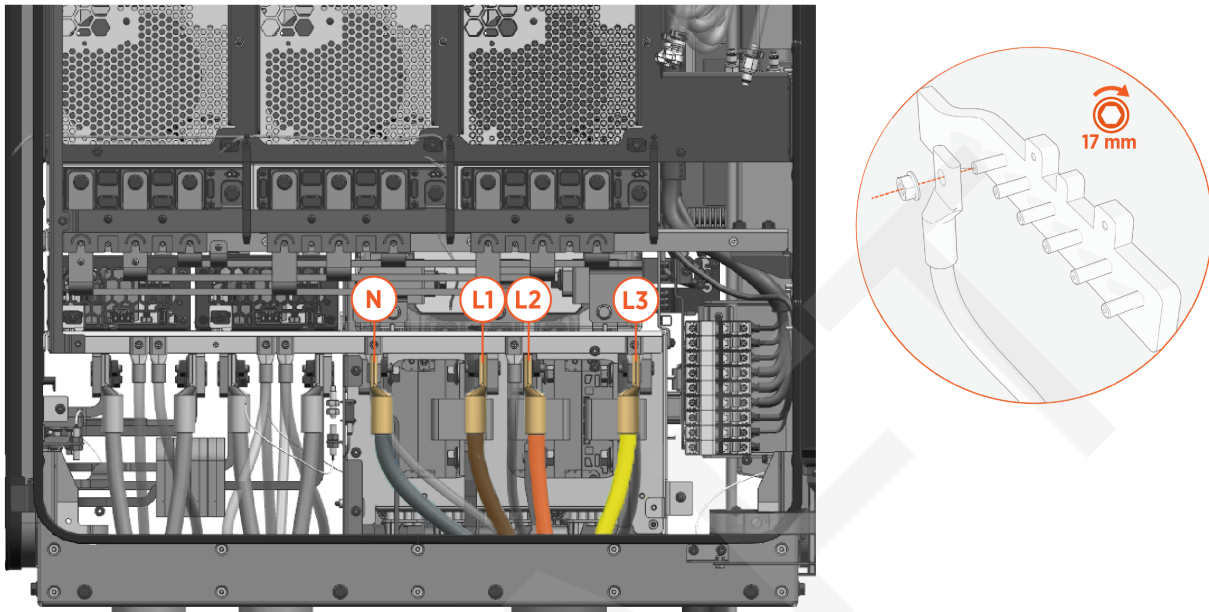
Connect AC Input Wires

Follow steps below to connect the AC input wires.

1. Use the [wire landings diagram](#) to locate the AC input wire bus bars. The bus bars are accessible on the exhaust side (left side) of Express Solo.

2. Install each AC input wire onto its corresponding wire landing stud with provided M10 nut. Torque nut to **19 Nm (14 ft-lb)**.

Note: Start at the inner-most landing and work your way out.



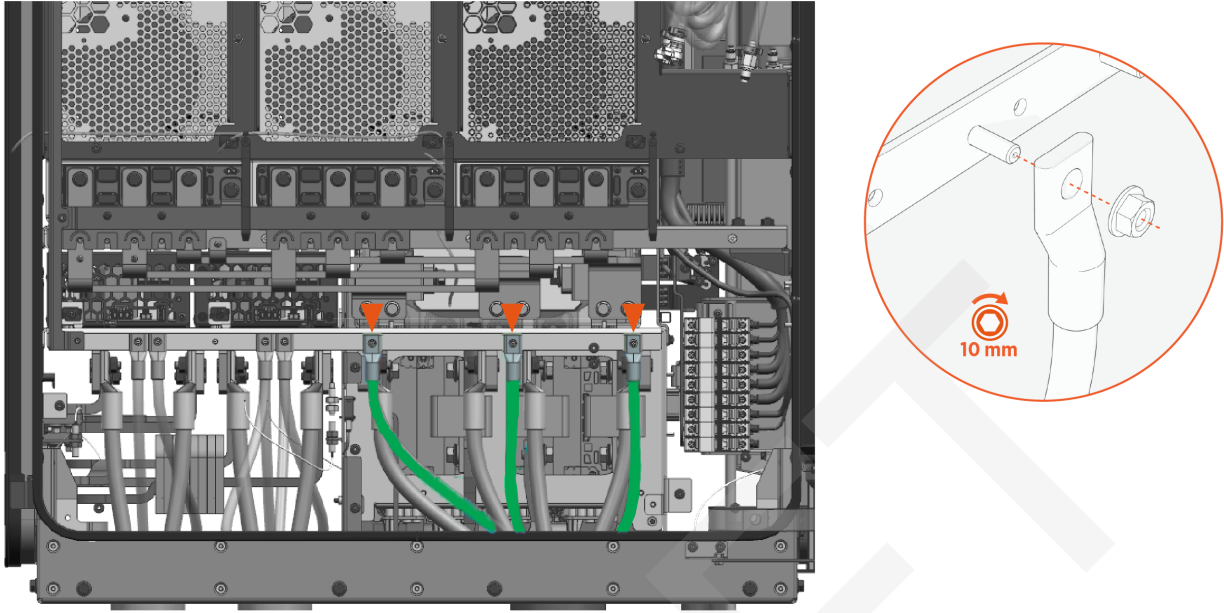
3. Apply torque marks to all torqued connections.

Connect AC Protective Earth (PE) Wires

Follow steps below to connect the AC input PE wires.

1. Use the wire landings diagram to locate the PE landing studs. The studs are accessible on the exhaust side (left side) of Express Solo.

2. Install each PE wire onto a wire landing stud with provided M6 nut. Torque nut to **5.6 Nm (50 in-lb)**.

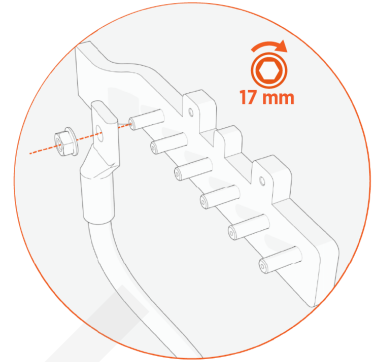
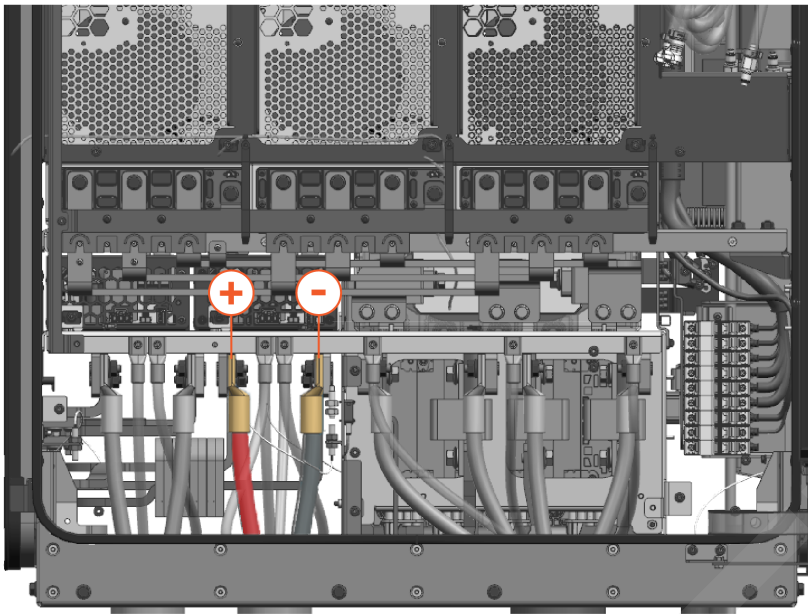


Connect External DC Link Wires

Follow steps below to connect the External DC Link (HV DC Interface A and C) wires.

1. Use the wire landings diagram to locate the External DC Link wire bus bars. The bus bars are accessible on both the intake side (right side) and exhaust side (left side) of Express Solo.
2. Install each External DC Link wire onto its corresponding wire landing stud with provided M10 nut. Torque nut to **19 Nm (14 ft-lb)**.

The illustration below depicts wire installation on the exhaust side. Start at the inner-most landing and work your way out.



3. Apply torque marks to all torqued connections.

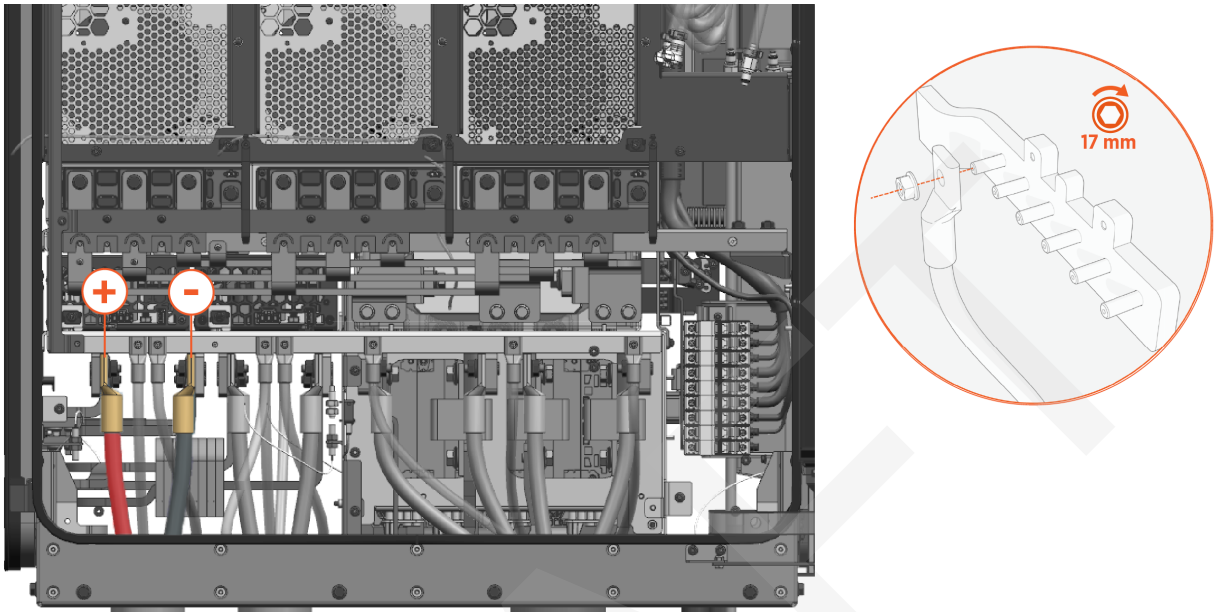
Connect HV DC Interface B and D Wires

Follow steps below to connect the HV DC Interface B and D wires.

1. Use the wire landings diagram to locate the HV DC Interface B and D wire bus bars. The bus bars are accessible on both the intake side (right side) and exhaust side (left side) of Express Solo.

2. Install each HV DC wire onto its corresponding wire landing stud with provided M10 nut. Torque nut to **19 Nm (14 ft-lb)**.

The illustration below depicts HV DC interface D wire installation on the exhaust side. Start at the inner-most landing and work your way out.



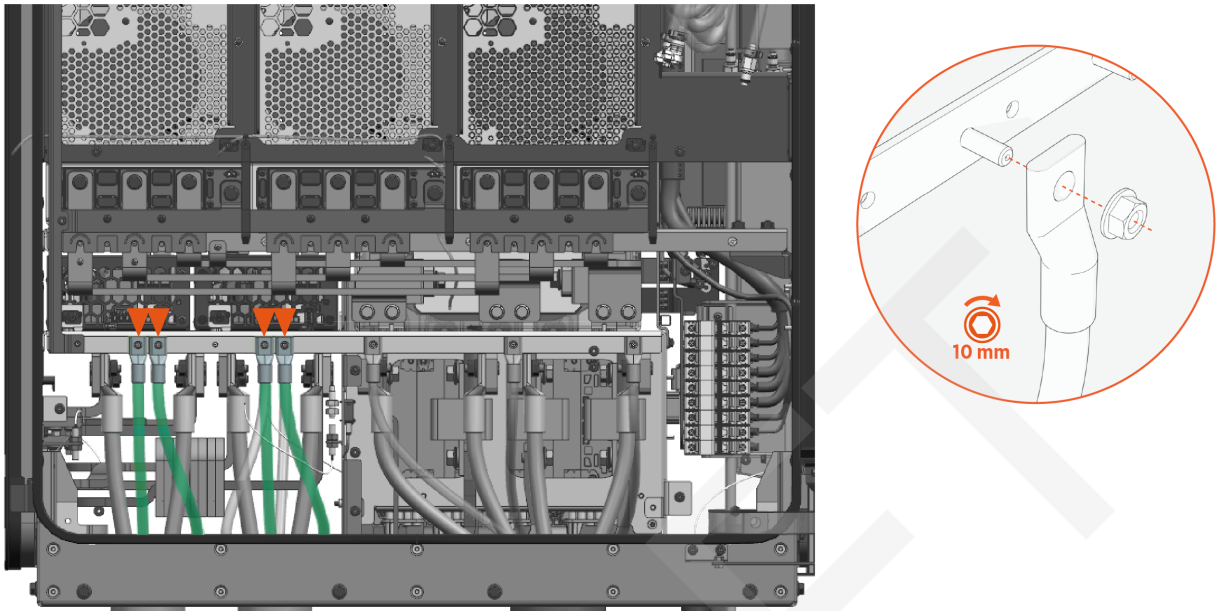
3. Apply torque marks to all torqued connections.

Connect High Power Ground Wires

Follow steps below to connect the high power ground wires.

1. Use the [wire landings diagram](#) to locate the high power ground wire landing studs. The studs are accessible on the exhaust side (left side) of Express Solo.

2. Install each ground wire onto a wire landing stud with provided M6 nut. Torque nut to **5.6 Nm (50 in-lb)**.



Pull LV DC Wires

Pull the LV DC wires into the Express Solo] enclosure. Depending on the site-specific system architecture, this may include pulling in one or more of the following:

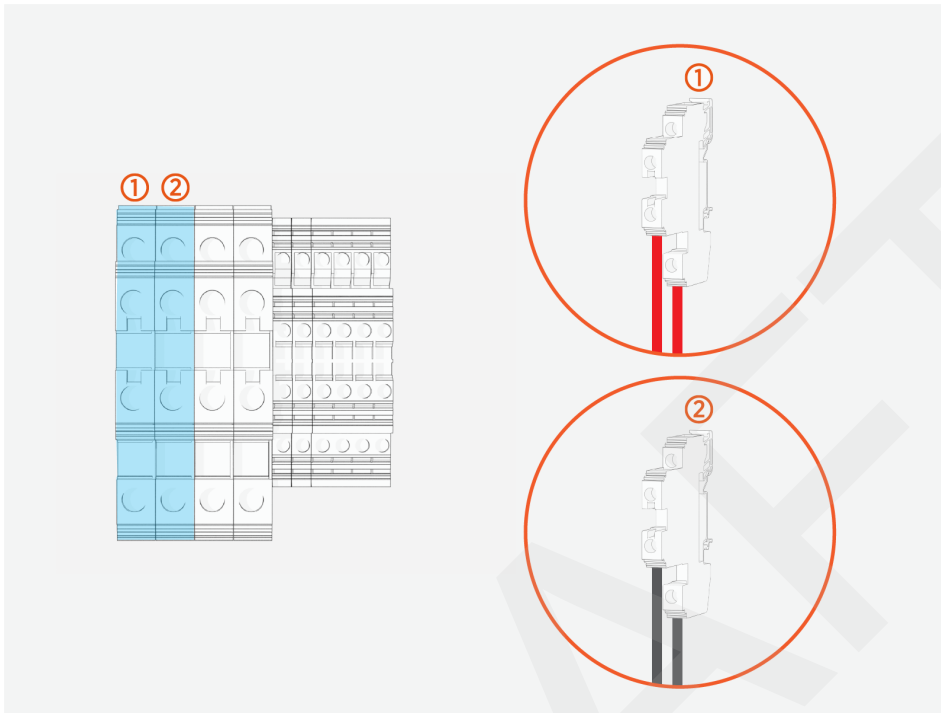
- 48 V DC wires
- Ethernet cables
- Door interlock sensor wires
- Safety Hub wires
- Soft shutdown switch wires
- Shunt trip wires

To pull the wires:

1. Study the line diagram carefully to understand which wires should be pulled through each conduit.
2. Label all wires at both ends.
3. Pull the wires through conduit.

Connect 48 V DC Wires

1. Use the wire landings diagram to locate the 48 V DC terminals within the cabinet. The terminals are accessible on the intake side (right side) of Express Solo. There are two terminals.

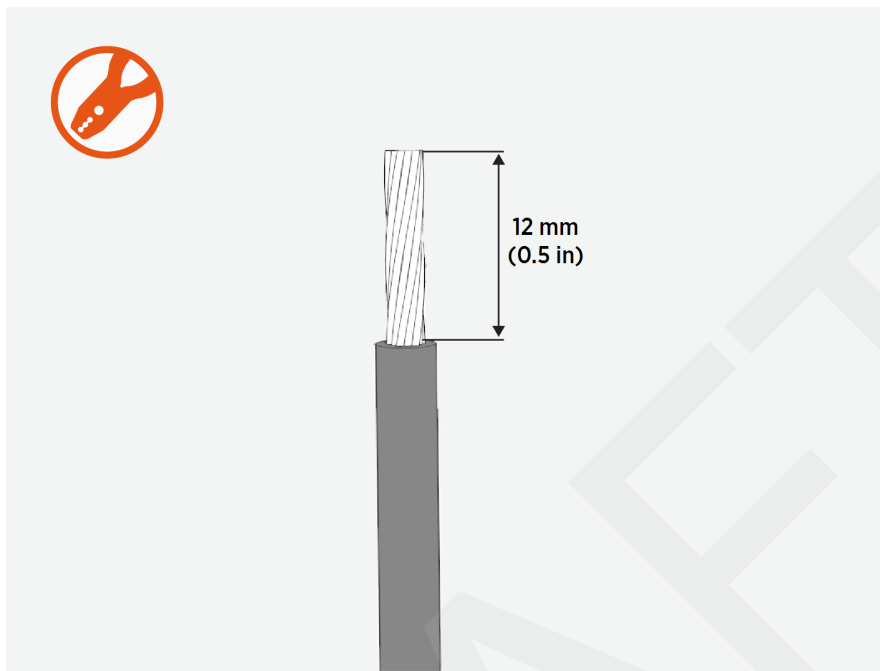


- (1) Positive (+) 48 V DC to Power Link #1 and Power Link #2
- (2) Negative (-) 48 V DC to Power Link #1 and Power Link #2

IMPORTANT:

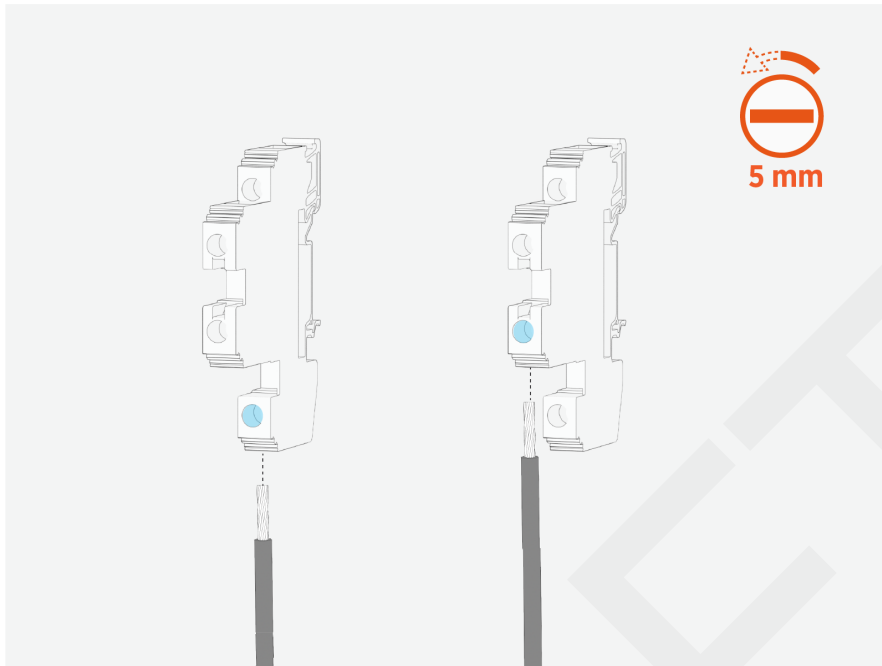
- Each terminal has:
 - Upper-level wire entry point with a corresponding upper set screw
 - Lower-level wire entry point with a corresponding lower set screw
 - The two levels are interchangeable; each may be connected to any Power Link paired to the Express Solo.
 - Do not confuse the positive terminal (1) with the negative terminal (2). These terminals are *not* interchangeable.
2. Route the 48 V DC wires through the wireway clamps up to the 48 V DC terminals. If necessary use cable ties.

-
3. Install the wires at each terminal with the following steps:
 - a. Cut the wire (or wires) to length for landing at the terminal.
 - b. Strip the wire jacket.



- c. Determine wire placement:
 - If installing a single wire, you may insert the wire into either the upper or lower level. The two levels are interchangeable.
 - If installing two wires, you will insert one wire into the upper level and the other into the lower level.

- d. On the terminal, loosen the set screw for each level where a wire will be inserted.



- e. Insert the wire (or wires) into the LV terminal. Torque the set screws (x2) to **2 Nm (18 in-lb)**.

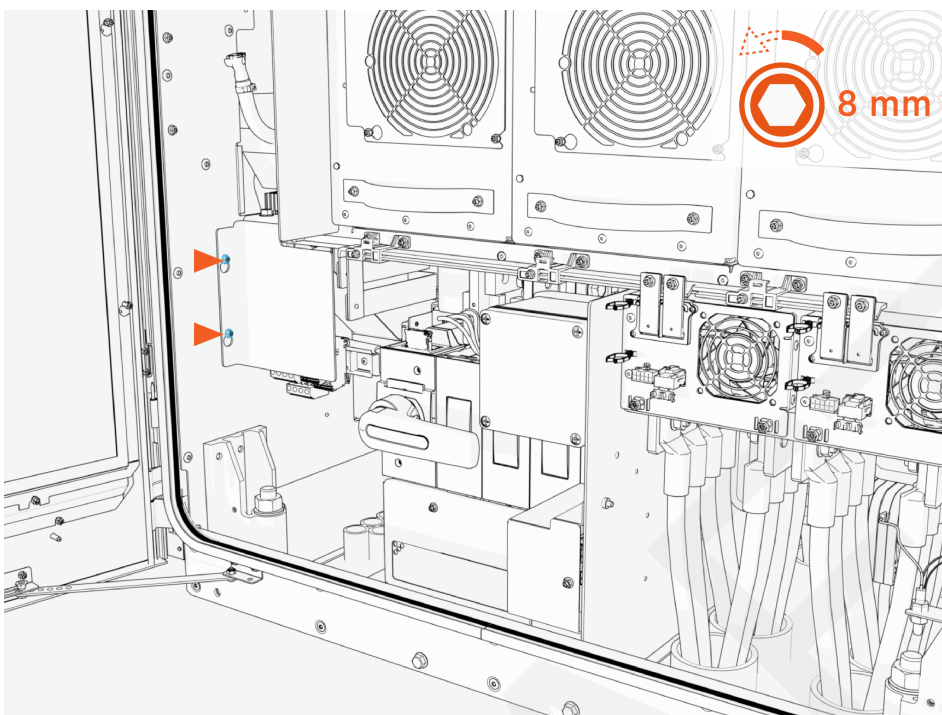


- f. Push-pull to test that both wires (+ and -) are secured.

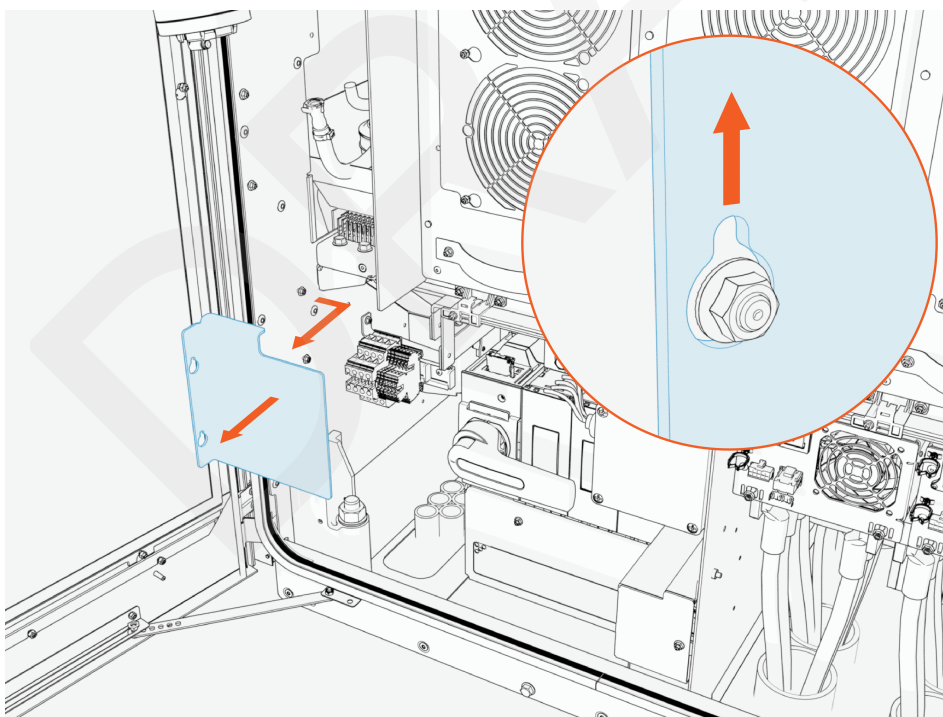
Connect Ethernet Cables

Follow steps below to connect the Ethernet cables.

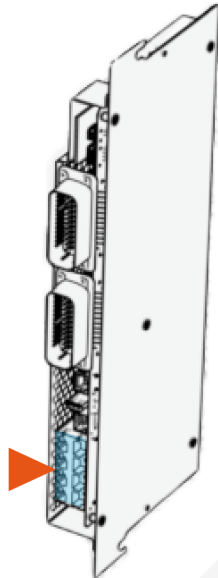
1. On the intake (right) side of the cabinet, loosen (do not remove) nuts (x2) that secure the LV DC terminal cover.



2. Slide the cover up to release the keyholes. Then pull outward to remove the safety cover.



3. Use the [wire landings diagram](#) to locate the Ethernet ports within the cabinet. The ports are accessible on the intake side (right side) of Express Solo. There are eight available ports and all ports are equivalent.

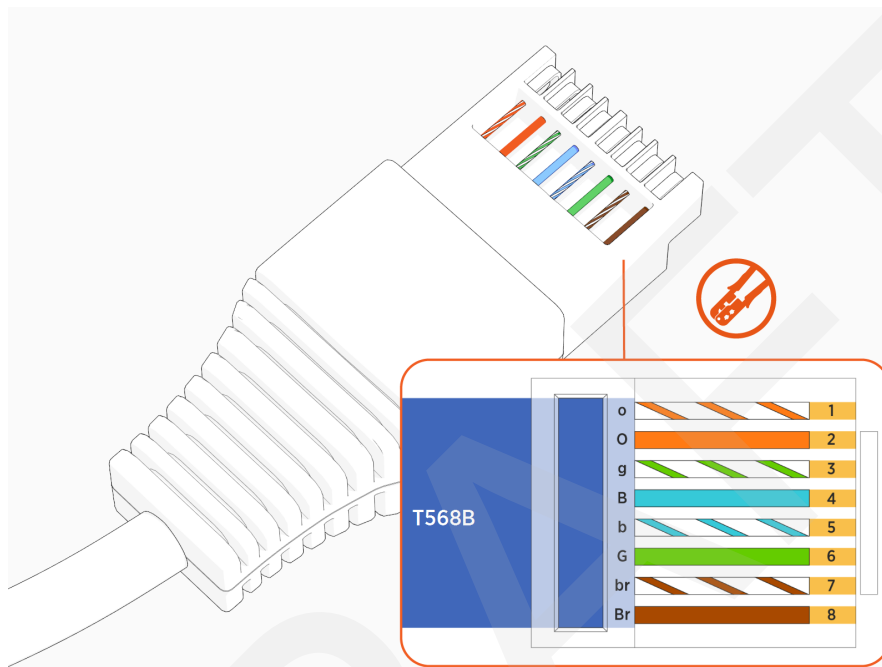


4. Route the Ethernet cables through the wireway clamps up to the terminal.

-
5. Install each Ethernet cable with the following steps:
 - a. Trim Ethernet (Cat6 STP) cable to length, allowing for a service loop.
 - b. Field crimp a shielded RJ45 connector onto the Ethernet cable. Use straight-through T568B pattern.



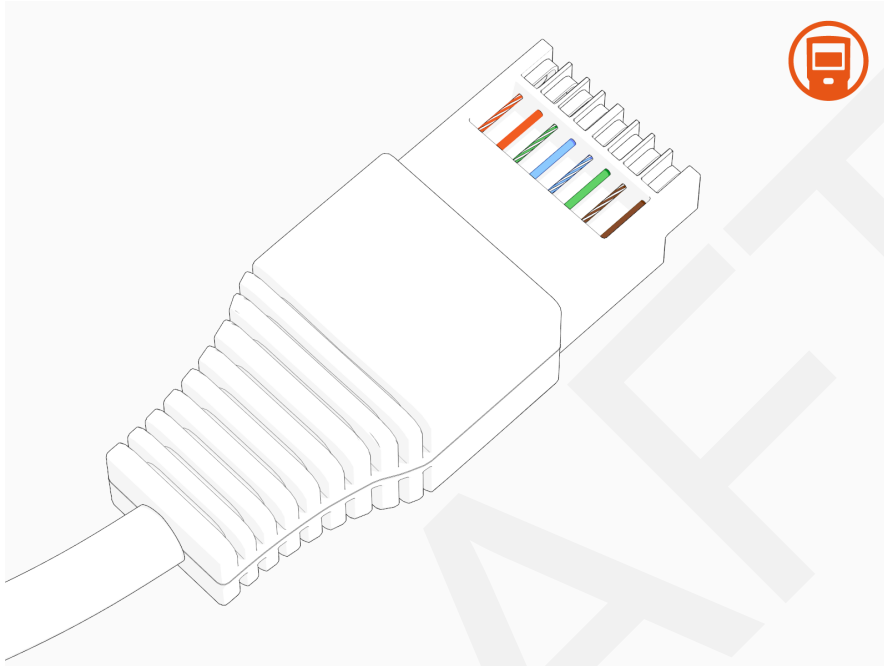
IMPORTANT: Ground both ends of the Ethernet cable shield.



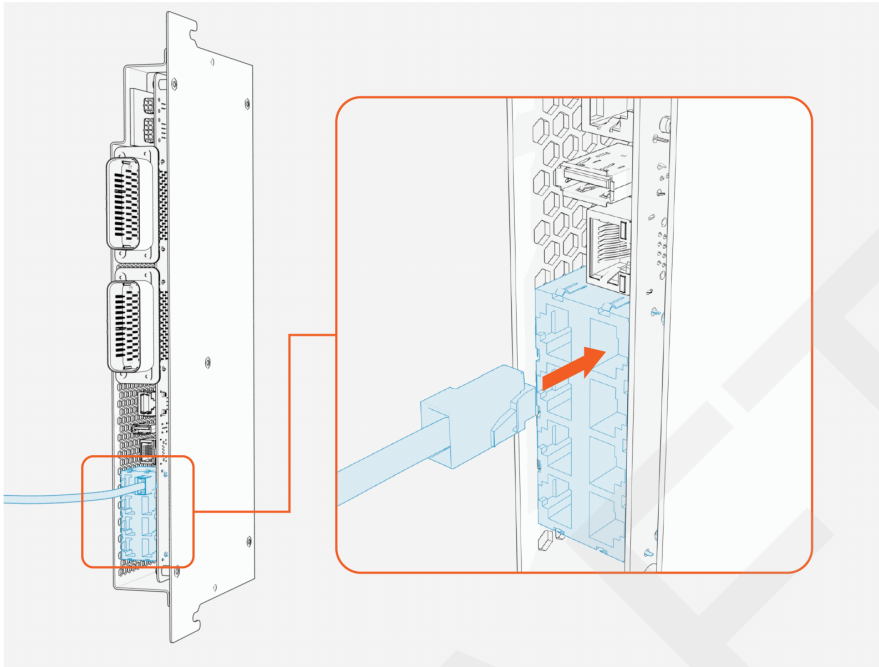
- c. Test the Ethernet cable for functionality.



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](#).



- d. Connect the Ethernet cable to any available Ethernet port. To establish a secure connection, the RJ45 connector latch must click into the switch.



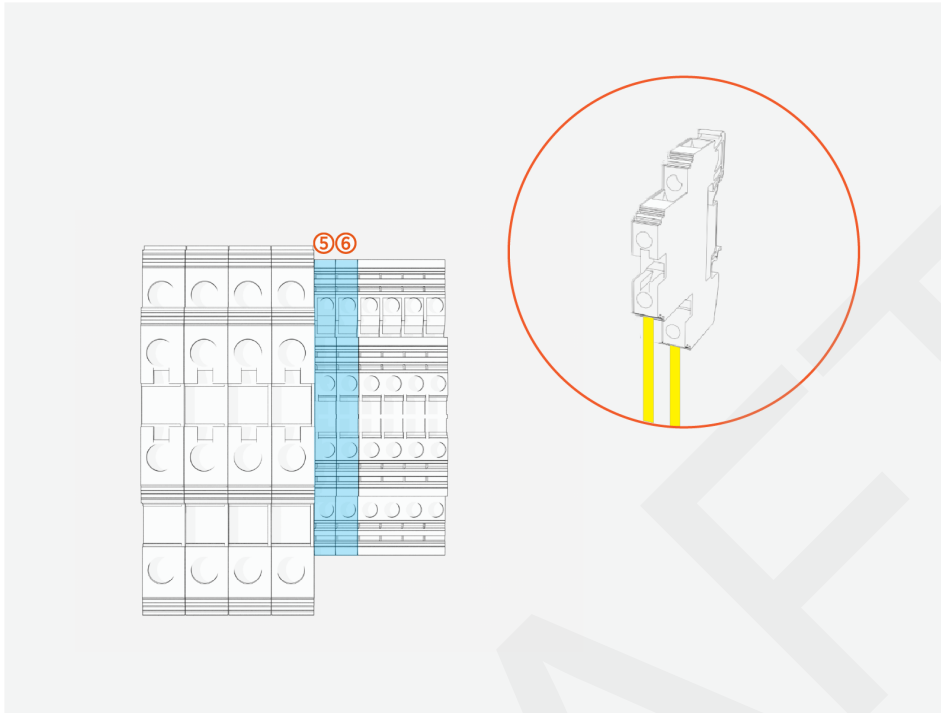
6. After all Ethernet cables are connected, reinstall the LV DC terminal cover that was removed earlier.
 - a. Seat the LV DC terminal cover back into its original place. Slide the cover downward so the keyholes lock behind the retaining nuts.

Note: Route the Ethernet cables behind the cover and up through the cutout located in the upper right corner of the cover. If needed, use a cable tie to neatly bundle the cables. Make sure the cables are not pinched or excessively bent as they pass through the cutout.
 - b. Tighten nuts (x2) to secure the cover. Use an 8 mm socket. Torque to **2.8 Nm (25 in-lb)**.

Connect Door Interlock Sensor and Soft Shutdown Switch Wires

Follow steps below to connect the door interlock sensor and/or soft shutdown switch wires, as needed.

1. Use the [wire landings diagram](#) to locate the door interlock sensor terminal and soft shutdown switch terminals within the cabinet. The terminals are accessible on the intake side (right side) of Express Solo. The procedure for installing wires at each terminal is the same.



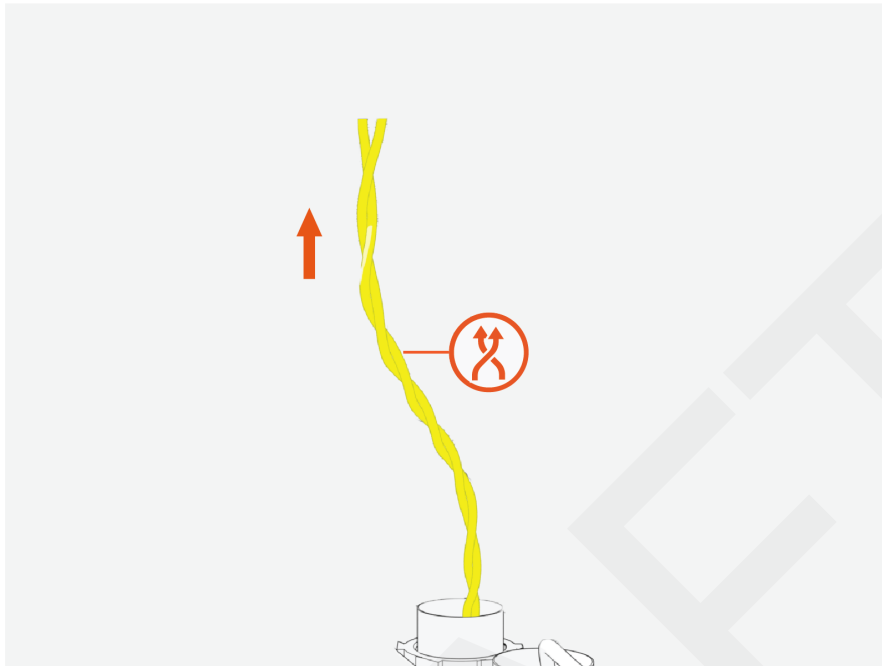
(5) Soft shutdown switch terminal

(6) Door interlock sensor terminal

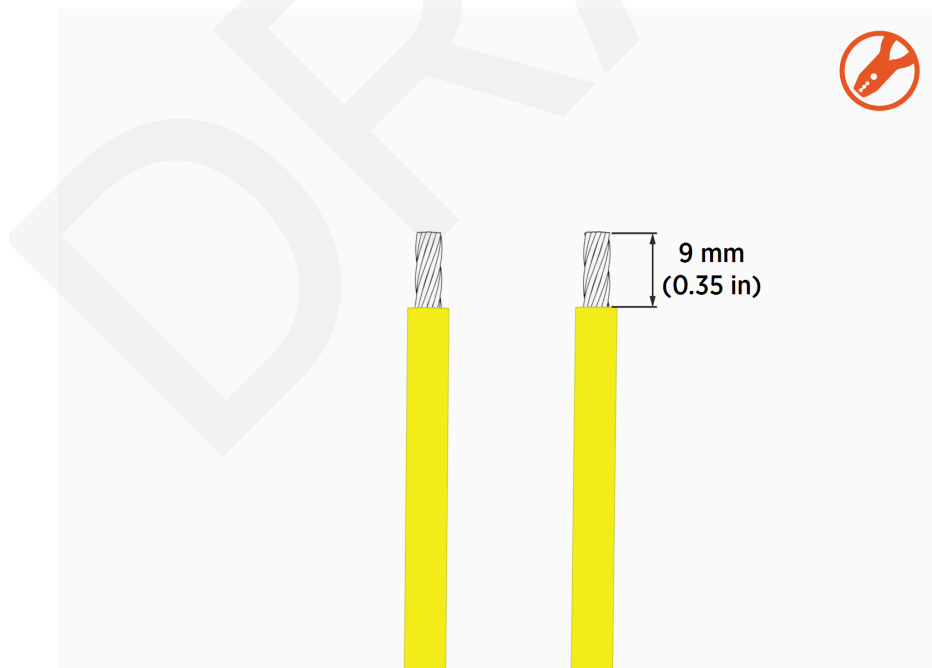
IMPORTANT:

- Each terminal has:
 - Upper-level wire entry point with a corresponding upper set screw
 - Lower-level wire entry point with a corresponding lower set screw
 - The soft shutdown switch wires are non-polarized and interchangeable. Either wire can be installed into either level on the soft shutdown switch terminal (5).
 - The door interlock sensor wires are non-polarized and interchangeable. Either wire can be installed into either level on the door interlock sensor terminal (6).
 - Do not confuse the soft shutdown switch terminal (5) with the door interlock sensor terminal (6). These terminals are *not* interchangeable.
-

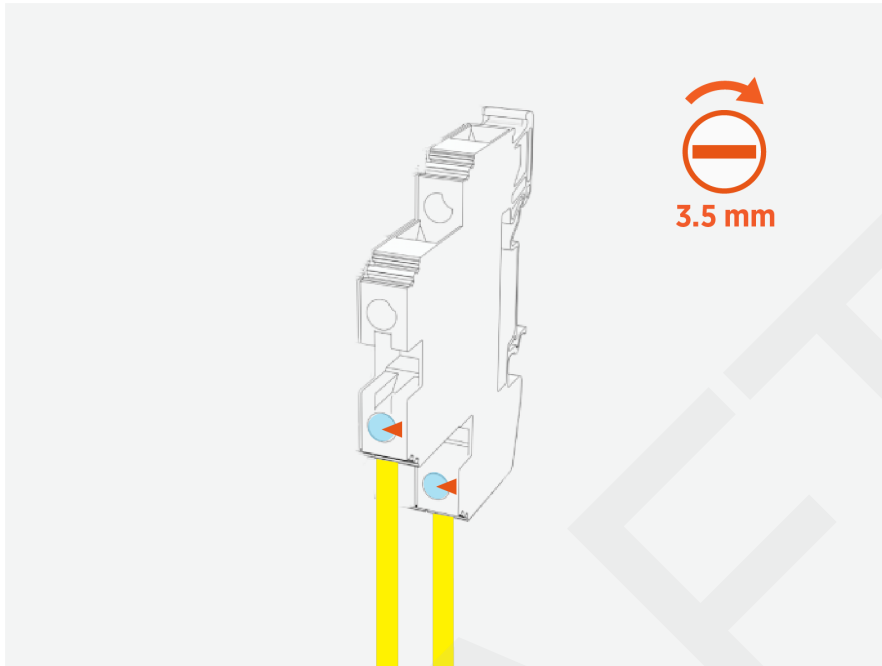
2. Follow procedures below to connect a wire pair at its designated terminal:
 - a. Twist the wires together, using a minimum of five twists per foot.



- b. Route the twisted wire pair through the wireway clamps up to the terminal. If necessary use cable ties.
 - c. Cut the wires to length for landing at the terminals.
 - d. Strip the wire jackets.



- e. At the wire terminal, loosen the wire set screws (x2). Use a 3.5 mm flathead screwdriver.
- f. Insert the wires into the terminal. Torque the set screws (x2) to **0.6 Nm (5.3 in-lb)**.



- g. Push-pull to test that both wires (+ and -) are secured.

Connect Safety Hub Wires

TBD

Connect Shunt Trip Wires

TBD

Set Up Charging Cables 5

Follow all instructions provided in this chapter to set up the charging cables.



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 chargepoint.com/installers 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.

Install Overhead CMK (if applicable)

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

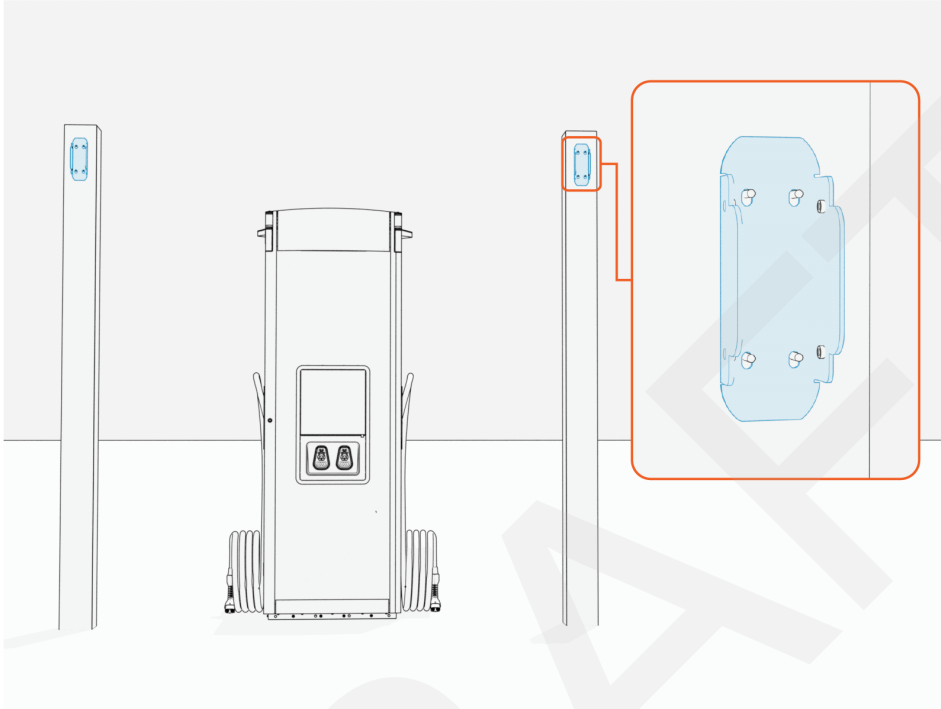


IMPORTANT: The site must be equipped with poles for mounting the overhead CMK next to each of the Express Solo charging cables. The poles must meet the design specifications given in the *Express Solo Site Design Guide*.

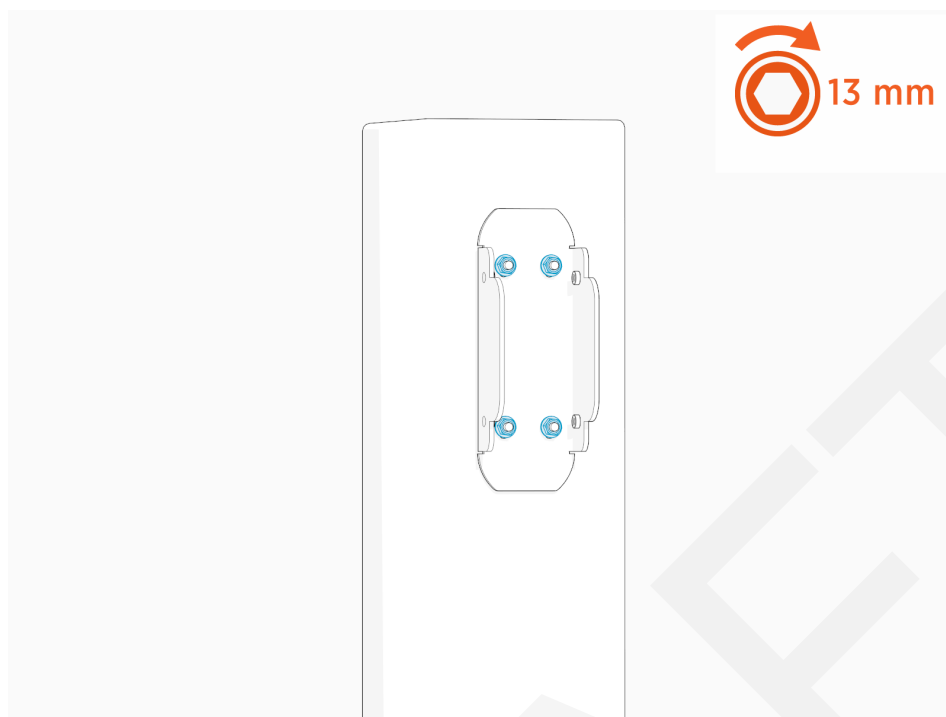
Install Overhead CMK

Follow steps below to install the overhead CMKs.

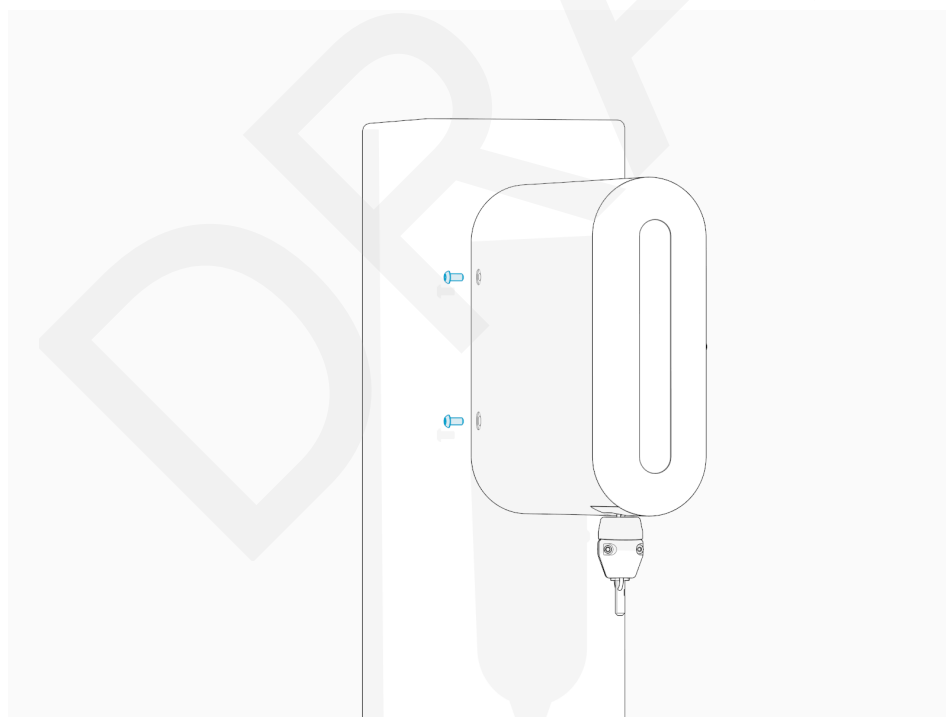
1. Find the M8 hex nuts (x4) and M6 Torx screws (x4) shipped in the overhead CMK package.
2. Install the bracket onto the pole.



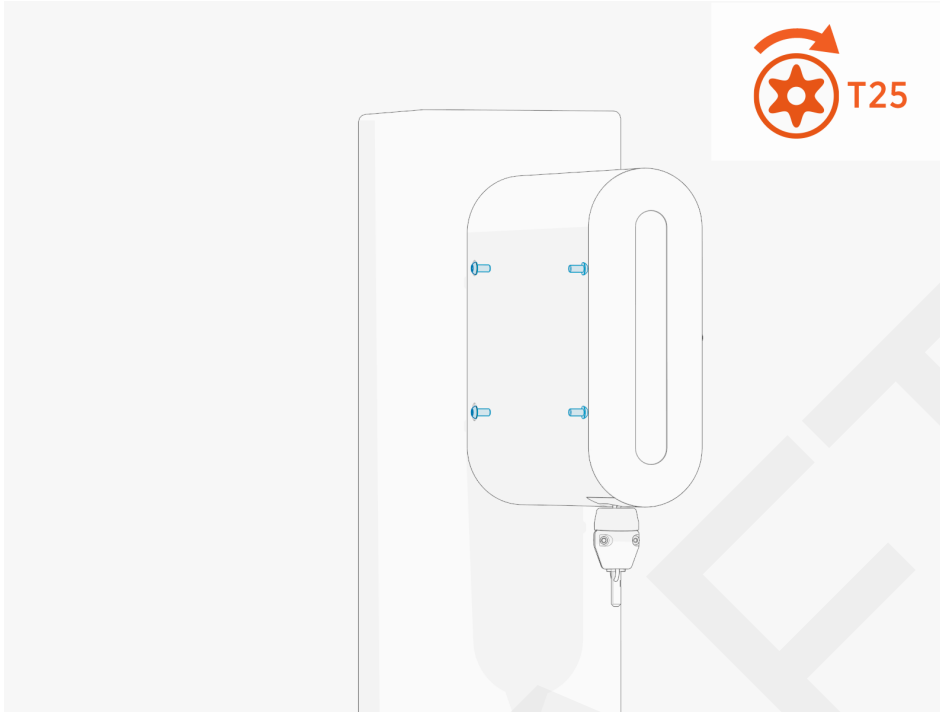
-
3. Install and torque the M8 hex nuts (x4) to **12.2 Nm (108 in-lb)** to secure the bracket.



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)**.

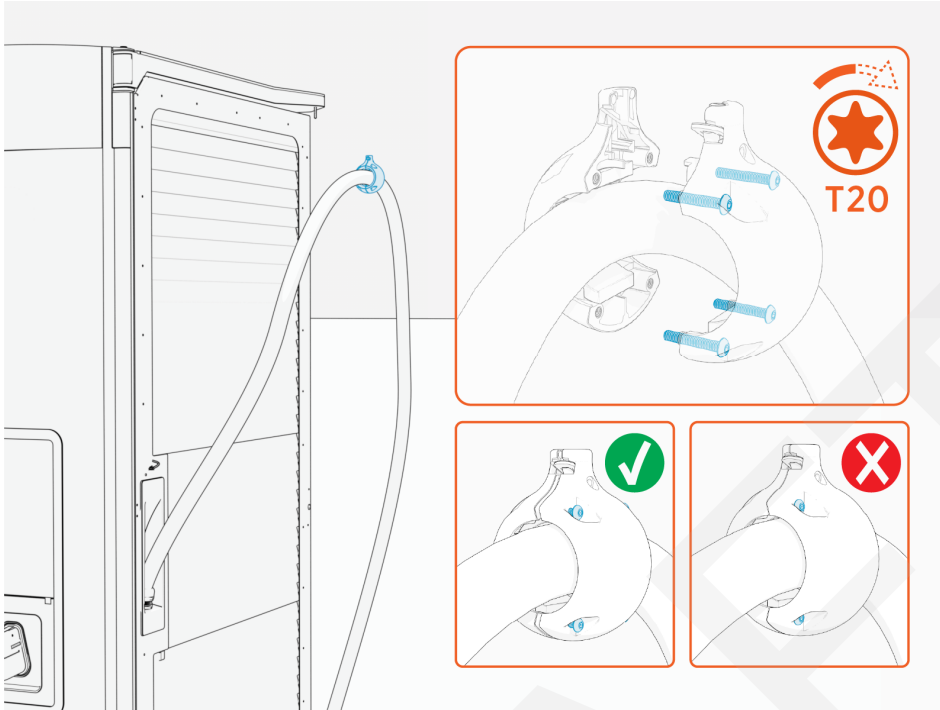


Install Charging Cable Tetherballs

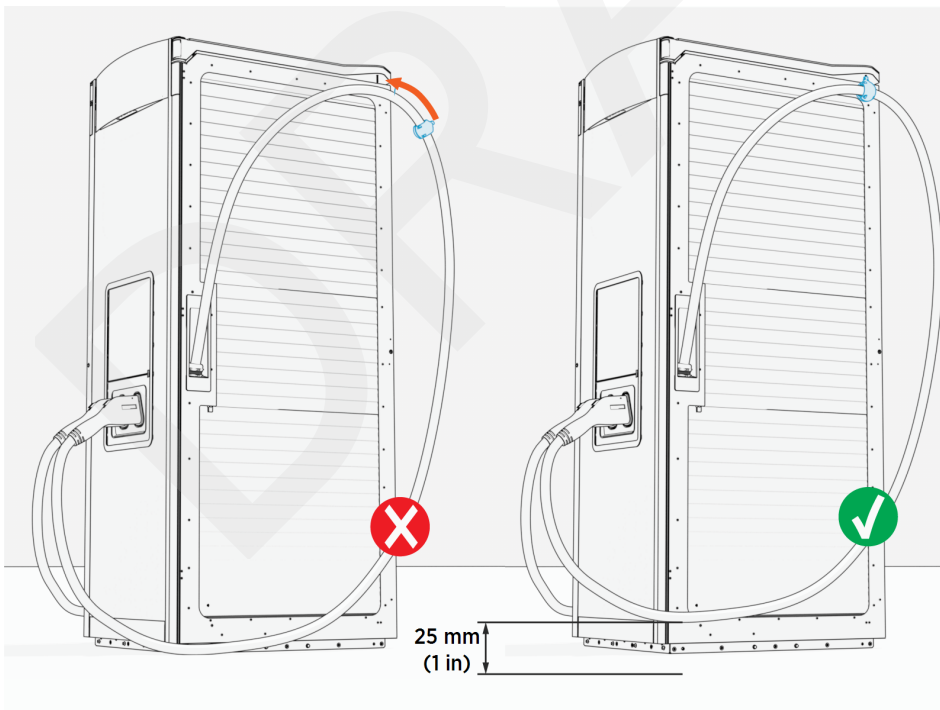
Standard length (5.8 m or 19 ft) charging cables come with a tetherball preinstalled onto the cable. For non-LCC medium length (7.6 m or 25 ft) charging cables, a tetherball is not preinstalled onto the cable and you must follow steps below to install tetherballs onto each charging cable (if not already done).

Illustrations given below are based on the swingarm CMK, but the concept at each step applies to all cable management options.

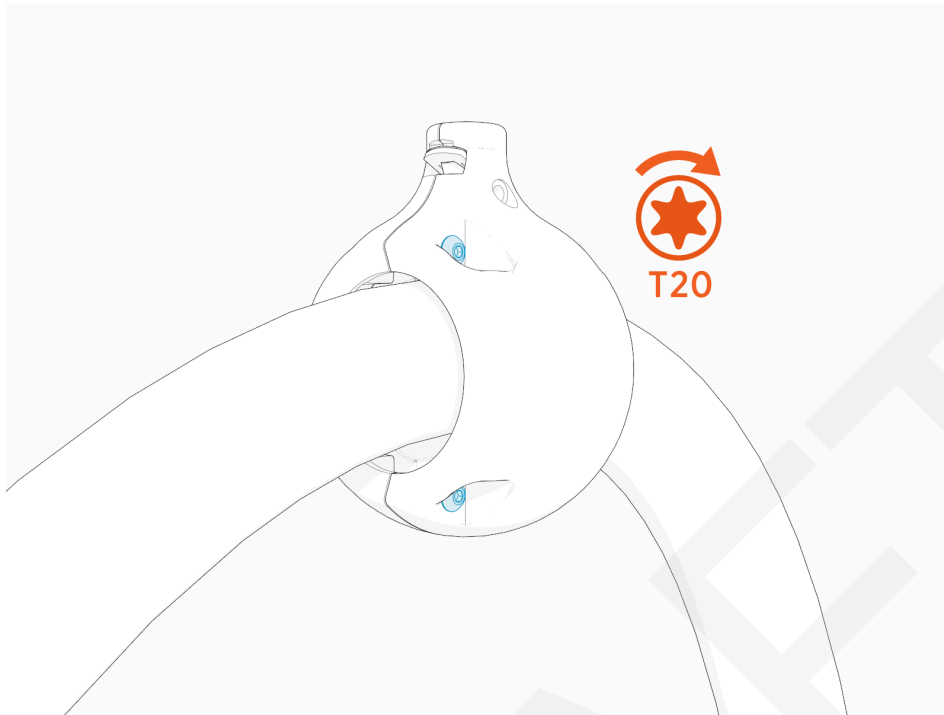
1. Loosely install the tetherball onto the cable.



2. If necessary, slide the tetherball to a position on the cable such that the lowest point of the cable remains 25 mm (1in) off the ground when the cable is in its stored position.



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

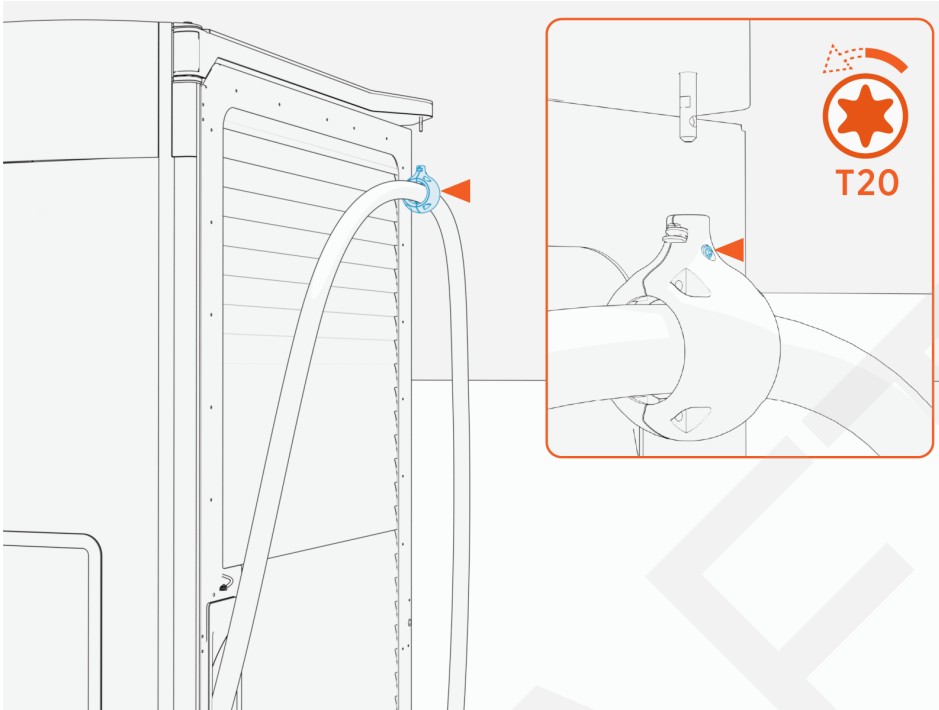


Suspend Charging Cables

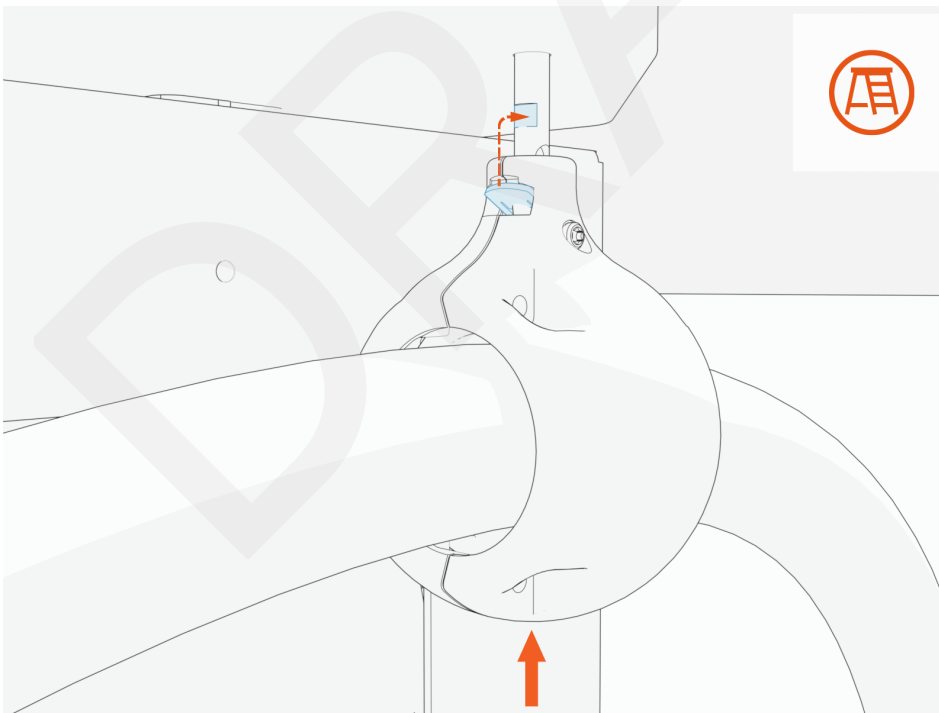
The procedure for suspending charging cables is the same, whether Express Solo is configured with fixed tether point, swingarm CMK, or overhead CMK. The charging cable tetherball must be affixed to a tetherball anchor pin on the cable management system.

Follow steps below to suspend the charging cables (if not already done). Illustrations given below are based on the swingarm CMK, but the concept at each step applies to all cable management options.

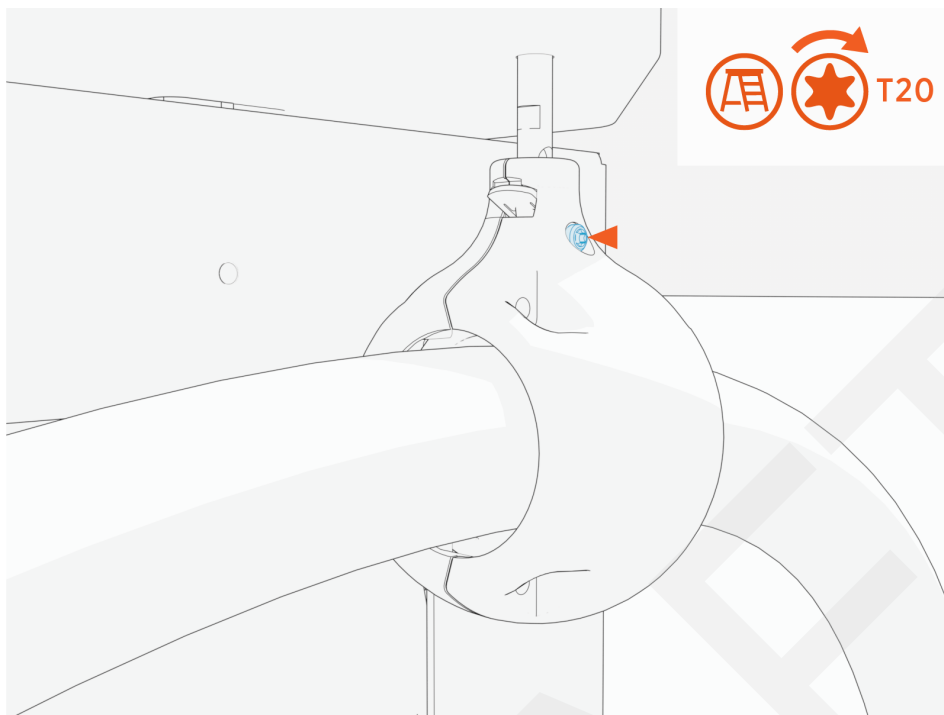
1. If it is not already loose, loosen (do not remove) the tetherball set screw.



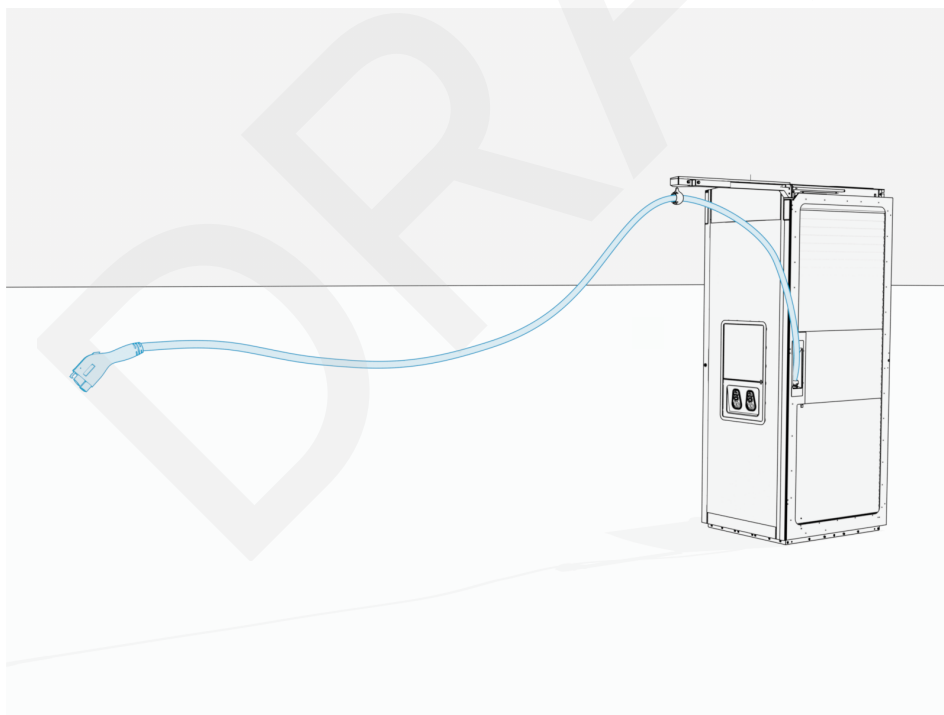
2. Align the tetherball spring tab with the flat notch on the anchor pin. While aligned, gently push the tetherball onto the anchor pin.



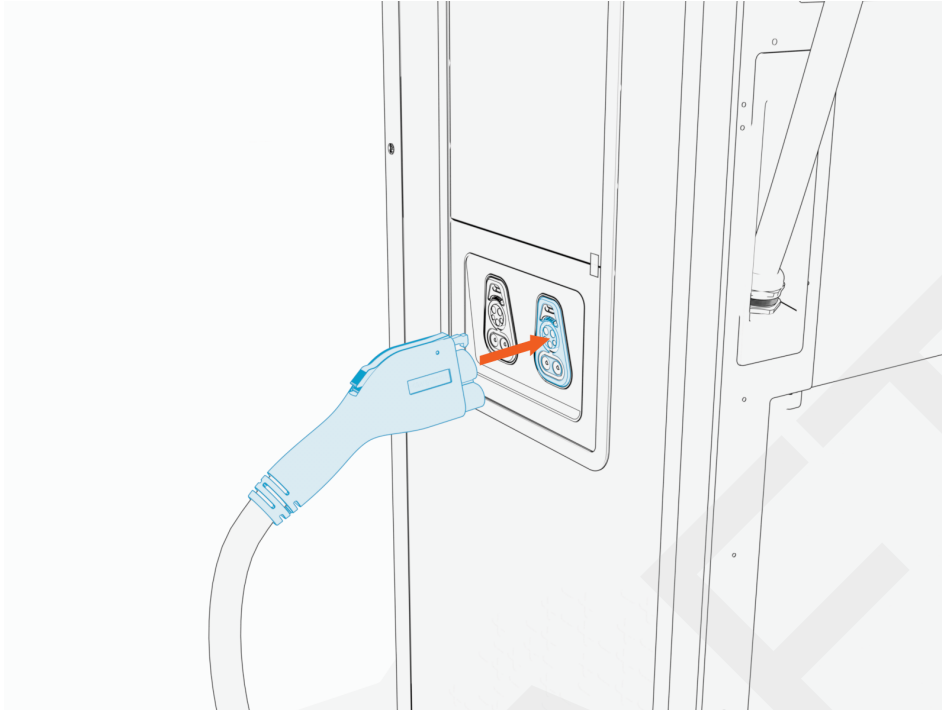
3. Torque the set screw to **2.8 Nm (25 in-lb)**.



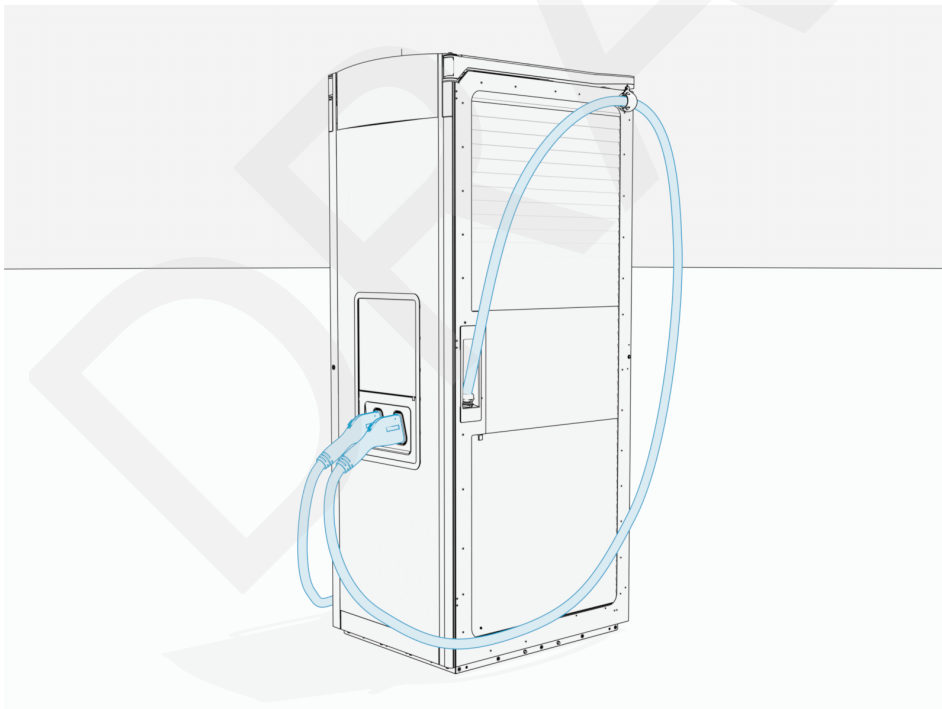
4. Tug on the cable to check that it is securely attached and the swingarm is functioning. If you find limited motion or retraction, contact ChargePoint support.



5. Insert the charging cable connector into the corresponding holster.



6. Repeat the steps above to suspend the other charging cable.



Complete the Install 6

Follow all instructions provided in this chapter to complete the installation.



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 chargepoint.com/installers 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).

Complete Post-Installation Checklist

To adhere to ChargePoint best practices, complete the Express Solo post-installation checklist. Some checklist items require the charging station be open and safety shields removed. Other checklist items apply after installing safety shields and closing the station.

Reinstall Safety Shields

1. On the intake (right) side of the cabinet, reinstall the HV DC bus bars safety cover.
 - a. Seat the cover back into its original place. Slide the cover downward so the keyholes lock behind the retaining nuts.
 - b. Tighten the upper nuts (x3) to **1.7 Nm (15 in-lb)**. Use a 7 mm socket.
 - c. Tighten the lower nuts (x3) to **4.5 Nm (40 in-lb)**. Use an 8 mm socket.
2. On the exhaust (left) side of the cabinet, reinstall the AC bus bars safety cover.
 - a. Seat the cover back into its original place. Slide the cover downward so the keyholes lock behind the retaining nuts.
 - b. Tighten the nuts (x2) to **5.6 Nm (50 in-lb)**. Use a T30 screwdriver.
3. On the exhaust (left) side of the cabinet, reinstall the HV DC bus bars safety cover.
 - a. Seat the cover back into its original place. Slide the cover downward so the keyholes lock behind the retaining nuts.
 - b. Tighten the nuts (x5) to **4.5 Nm (40 in-lb)**. Use an 8 mm socket.
4. On the exhaust (left) side of the cabinet, reinstall the fuse block safety cover.
 - a. Seat the cover back into its original place. Slide the cover downward so the keyholes lock behind the retaining nuts.
 - b. Tighten the nuts (x2) to **2.8 Nm (25 in-lb)**. Use an 8 mm socket.

Close Up Express Solo

1. Disengage the door stopper and close the cabinet doors.
2. Lock the cabinet doors.
3. Plug the locks on the side doors.

Appendix: Low Clearance Forklift **A** Bracket Lift

Forklift brackets may be installed on Express Solo to enable product installation at a location where the overhead clearance does not meet the minimum requirement.

TBD

DRAFT

Appendix: Set Up Express Solo B

To set up Express Solo, complete the following steps:

IMPORTANT: Do not power on Express Solo immediately after installation.



Express Solo must not be powered on after installation. A certified Authorized Commissioning Partner (ACP) is required to commission the station before it is energized. The ACP will perform all necessary configuration and verification steps to ensure proper operation.

To schedule a commissioning appointment, [contact ChargePoint](#). Be ready to provide the station serial number (SN).

Power On

Note: Express Solo must pass commissioning before power on, or warranty limitations apply.

1. Ensure all safety panels have been correctly installed, all doors are closed and locked, 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 Express Solo

After you power on the charging station at the breaker panel, set up Express Solo. 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 Express Solo is installed.
- A smartphone with ChargePointInstaller app, Internet connectivity, and QR code scanner (usually built into the camera app).

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

Region		QR Code
	U.S.	
	Canada	

Follow the steps below to set up Express Solo:

1. Open the ChargePointInstaller app and log in.
2. Follow the onscreen prompts.

Note: To connect to Express Solo and complete setup, you need to scan the QR code provided on the Express Solo display or manually enter the MAC address and password of Express Solo.

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

Refer to the ChargePoint product nameplate to determine if your product is Class A or Class B.

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

Important: Changes or modifications to this product not authorized by 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.

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- **Class B 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.