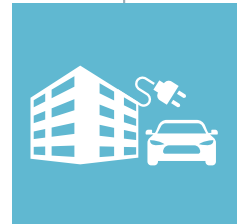
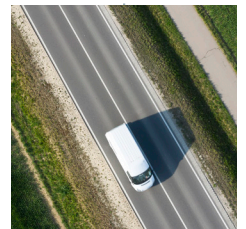
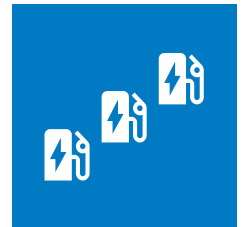


Eaton Green Motion Fleet Pro

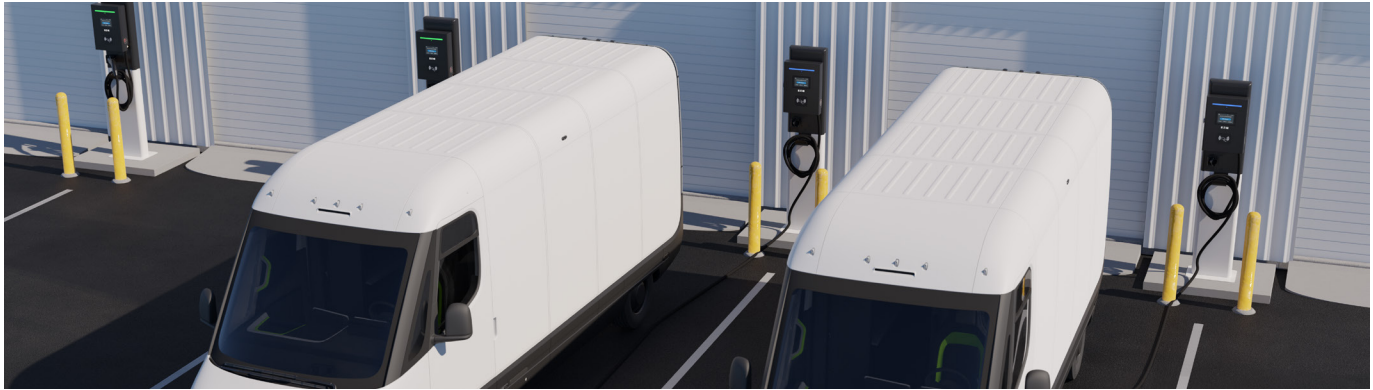
Eaton Green Motion Fleet Pro charger delivers fast and cost-effective charging for passenger vehicles and medium-duty trucks used for last mile delivery. Combining breakout capabilities for metering, control, integrated communications and access control with flexible installation options, Eaton Green Motion Fleet Pro chargers with robust enclosure enable cost-effective deployment and operation of EV charging infrastructure in fleet and industrial settings.

Providing a 19.2 kW AC charge, the Green Motion Fleet Pro chargers power plug-in hybrid and all-electric vehicles and are compatible with the Society of Automotive Engineers J1772 charging standard.

- Enable safe, fast and flexible AC Level 2 charging for passenger and medium-duty EV trucks
- California Type Evaluation Program (CTEP) certified
- Manage energy usage through digital capabilities
- Throttle the rate of charge for dynamic load management, minimizing the impact on power distribution and grid infrastructure
- Gain real-time insights through energy metering and Wi-Fi, Ethernet and cellular connectivity
- Secure access for authorized users through RFID cards
- Support an easy and intuitive charging experience with a 5" LCD touchscreen display
- Flexible installations including wall mount, single or dual pedestal mount
- Field adjustable output between 32 A, 40 A, 48 A, 64 A and 80 A based on infrastructure capacity



Powering Business Worldwide



EV wall charger & pedestal options

CATALOG & DESCRIPTIONS

GMEV80CME1-WC

- 19.2 kW AC Level 2 wall charger
- J1772 EV connector and 25 ft. cordset
- Mounting option: wall or pedestal
- Connectivity: Wi-Fi, Ethernet

GMEV80CMC1-WC

- 19.2 kW AC Level 2 wall charger
- J1772 EV connector and 25 ft. cordset
- Mounting option: wall or pedestal
- Connectivity: Wi-Fi, Ethernet, cellular

GMEV-PED

- EV single port pedestal
- Requires (1) GMEV80CME1-WC/GMEV80CMC1-WC, sold separately

GMEV-DPED

- EV dual port pedestal
- Requires (2) GMEV80CME1-WC/GMEV80CMC1-WC, sold separately

Technical Specification

Input electrical ratings

- Voltage: single phase, 208-240 Vac, 60 Hz
- Breaker rating: 100 A
- Power: 19.2 kW at 240 Vac; 16.6 kW at 208 Vac

Output electrical ratings

- Voltage: 208-240 Vac, 60 Hz
- Current: 80 A
- Power: 19.2 kW at 240 Vac; 16.6 kW at 208 Vac

Adjustable output

- Yes. Output adjustable to 80 A, 64 A, 48 A, 40 A, 32 A

Output current rating	Required input breaker rating
80 A	100 A
64 A	80 A
48 A	60 A
40 A	50 A
32 A	40 A

Wiring options

- Hardwire

Output cable

- 25' cable
- J1772 compliant connector

Metering

- 1% accurate energy meter

Operating temperature

- -35°C to +50°C

Indicators

- 5" touch LCD
- Charging status indicator LED
- Audible alarm

Wireless connectivity

- Wi-Fi 802.11n (2.4 GHz)
- Ethernet/100Mb
- Cellular: 4G LTE

Cybersecurity

- Tested per cybersecurity guidelines endorsed by UL and IEC

Firmware features

- Open platform with support for OCPP (Open Charge Point Protocol) 1.6J
- Over-the-air (OTA) firmware updates

Enclosure

- NEMA 3R rated enclosure for indoor and outdoor installation
- Enclosure material: galvanized steel
- Dimensions: 15.7"x11.4"x5.1"

Weight

- Charger enclosure plus cable: 33.15lbs

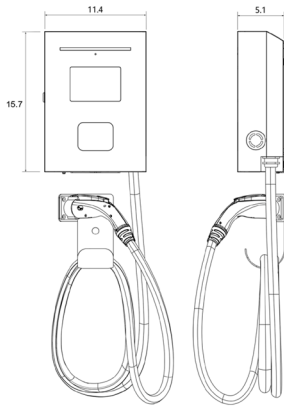
Certifications

- Safety: UL, CSA, NFPA article 625
- SAE J1772 2017 Ed.
- FCC compliant, Part 15
- CTEP
- Energy star

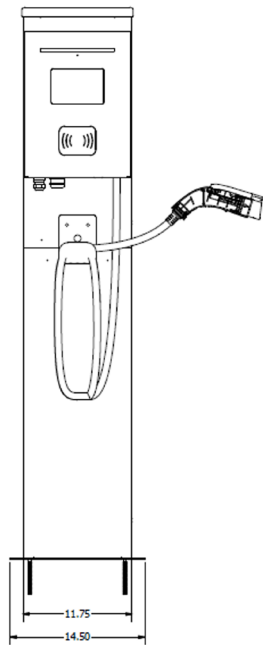
Warranty

- 3 years

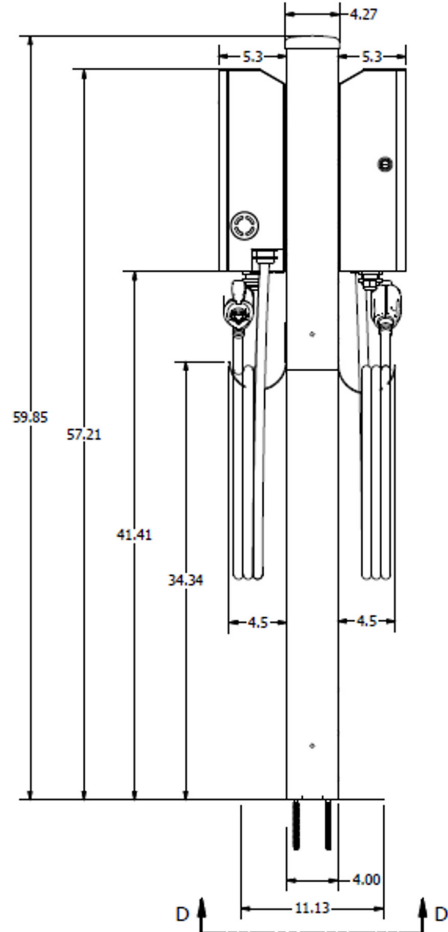
Product dimensions



EV wall charger



EV single port pedestal



EV dual port pedestal

Contact the Eaton Technical Resource Center at

1-877-ETN-CARE (386-2273) option 2, option 9 for further assistance.

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

© 2022 Eaton
All Rights Reserved
TD191012EN/wB
(Rev. 02)
September 2023

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.



Installation guide:

Green Motion Fleet Pro

Scan here for
Spanish translations



Contents

PRODUCT INTRODUCTION	1
PACKAGE CONTENTS	1
ROUTINE OPERATION	2
INSTALLATION	
Safety information	3
General reference	4
A - Preparing the EV charger(s)	5
B - Mount an EV charger to a wall	5
C - Mount an EV charger to a pedestal	8
D - Mount a second EV charger to a pedestal	13
FCC	15
TECHNICAL SPECIFICATIONS	16
WARRANTY INFORMATION	16
TROUBLESHOOTING	17

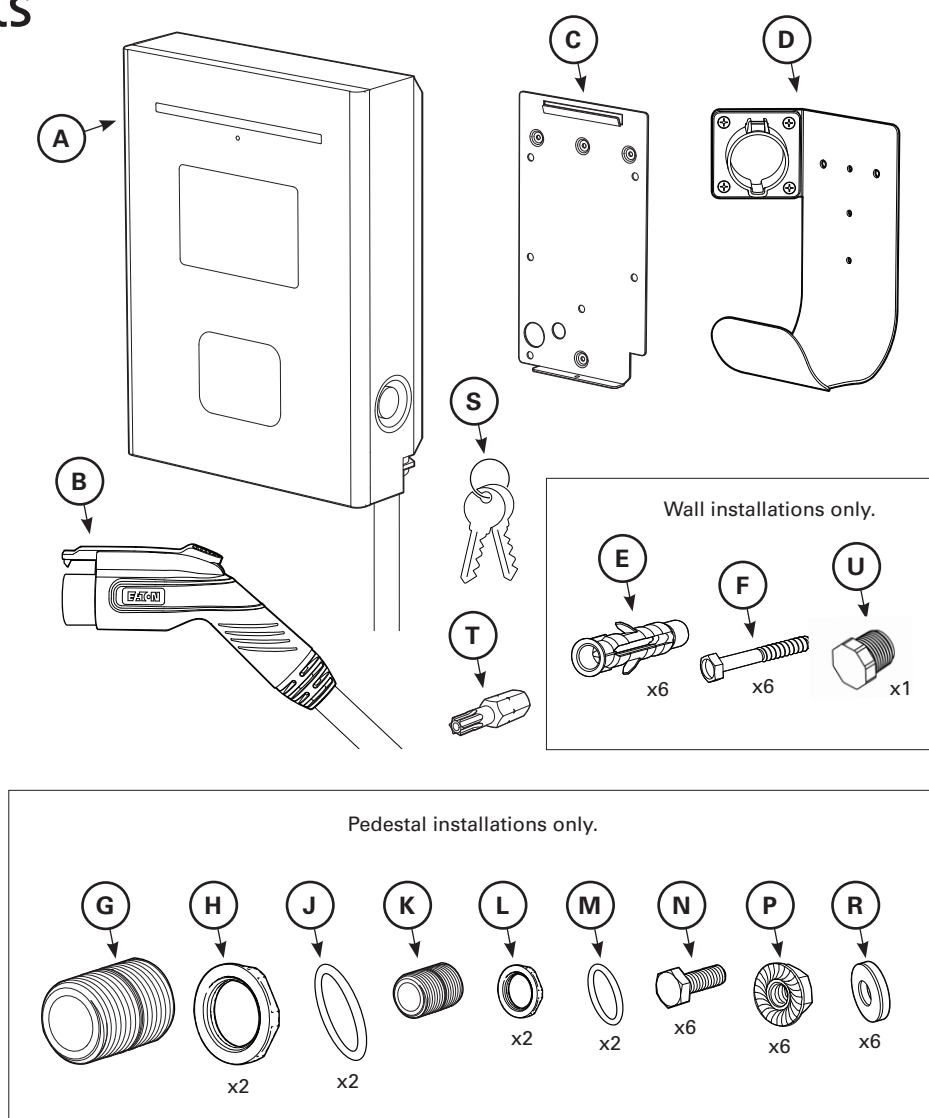
Product introduction

Eaton Green Motion Fleet Pro is a 19.2 kW AC Level 2 charger. Green Motion Fleet Pro chargers power plug-in hybrid and all-electric vehicles and are compatible with the Society of Automotive Engineers J1772 charging standard. Green Motion Fleet Pro chargers with robust enclosure enable cost effective deployment and operation of EV charging infrastructure in fleet and industrial settings.

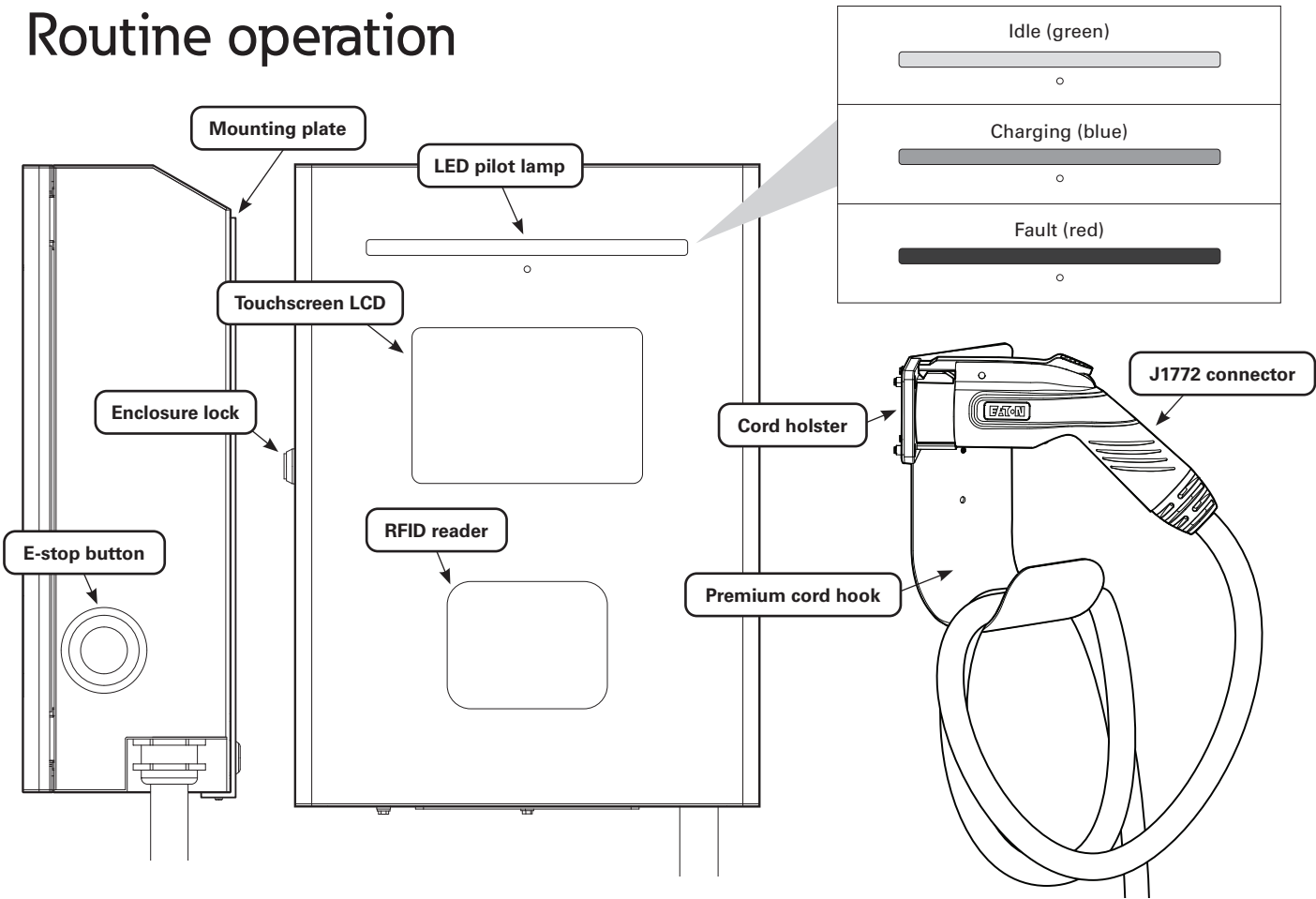
Product Family	SKU	Description
Green Motion Fleet Pro	GMEV80CME1-WC	19.2 kW AC Level 2, 80 A at 240 Vac, Wi-Fi, Ethernet
	GMEV80CMC1-WC	19.2 kW AC Level 2, 80 A at 240 Vac, Wi-Fi, Ethernet, cellular

Package contents

- [A] Eaton Green Motion Fleet Pro: 19.2 kW AC Level 2 charger
- [B] J1772 EV connector and 25-foot cord (attached to the EV Charger)
- [C] Adapter plate (need to disassemble from charger using T20 Torx bit provided)
- [D] Premium cord hook with holster
- [E] 10-12-14 plastic anchor
- [F] M6x50 Hex Head Screw
- [G] 1" Pipe, 1-1/2" Long PVC Threaded Plastic Pipe Nipple
- [H] 1" NPT Black Locknut for Continuous-Flex Plastic Conduit Fitting
- [J] O-ring for 1" conduit
- [K] 1/2" NPT conduit fitting: Thick-Wall Dark Gray PVC Pipe Nipple for Water, Fully Threaded, 1/2" NPT
- [L] 1/2" NPT plastic nut: Locknut for Plastic Conduit Fittings, 1/2" NPT, Gray
- [M] O-ring for 1/2" NPT conduit fitting: Oil-Resistant Buna-N O-Ring, 4 mm Wide, 21 mm ID
- [N] 1/4"-20 x 3/4" long hex head bolt: 18-8 Stainless Steel Hex Head Screw, 1/4"-20 Thread Size, 3/4" Long
- [P] 1/4"-20 serrated flange nut: High-Strength Steel Serrated Flange Locknut, Grade 8, Zinc-Plated, 1/4"-20 Thread Size
- [R] 1/4" Stainless Steel Neoprene Washer
- [S] Keys
- [T] T20 Torx Bit
- [U] 1/2" NPT Plug



Routine operation



State	Color	Blink Type	
Idle / Ready	Green	No Blink	<div></div>
Vehicle connected	Blue	Short	<div></div> <div></div> <div></div> <div></div> <div></div>
Vehicle connected, EVSE ready	Blue	Long	<div></div> <div></div> <div></div>
Charging	Blue	No Blink	<div></div>
EVSE/EV Fault (1)	Red	Long	<div></div> <div></div> <div></div>
Control Pilot Fault	Red	No Blink	<div></div>

1. Refer to the troubleshooting section for help on various faults.

Installation

Important safety instructions

DANGER

FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN DEATH, PERSONAL INJURY, OR PROPERTY DAMAGE. CIRCUIT BREAKERS MUST BE INSTALLED AND SERVICED BY A QUALIFIED ELECTRICIAN. REMOVE ALL POWER SOURCES TO THE PANEL BEFORE STARTING INSTALLATION OR MAINTENANCE.

WARNING

THIS EQUIPMENT SHOULD BE INSTALLED, ADJUSTED, AND SERVICED BY QUALIFIED ELECTRICAL PERSONNEL FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THIS TYPE OF EQUIPMENT AND THE HAZARDS INVOLVED. FAILURE TO OBSERVE THIS PRECAUTION COULD RESULT IN DEATH OR SEVERE INJURY.

READ THIS MANUAL THOROUGHLY AND MAKE SURE YOU UNDERSTAND THE PROCEDURES BEFORE YOU ATTEMPT TO OPERATE THIS EQUIPMENT. THE PURPOSE OF THIS MANUAL IS TO PROVIDE YOU WITH INFORMATION NECESSARY TO SAFELY OPERATE, MAINTAIN, AND TROUBLESHOOT THIS EQUIPMENT. KEEP THIS MANUAL FOR FUTURE REFERENCE.

DO NOT USE THIS PRODUCT IF THE EV CONNECTOR CORD IS FRAYED, HAS DAMAGED INSULATION, OR HAS ANY OTHER INDICATION OF DAMAGE.

DO NOT USE THIS PRODUCT IF THE EV CHARGER, THE EV CONNECTOR, OR THE LOADCENTER IS BROKEN, CRACKED, OPEN, OR SHOWS ANY OTHER INDICATION OF DAMAGE.

INTENDED FOR USE WITH PLUG-IN ELECTRIC VEHICLES ONLY. PREMISE VENTILATION NOT REQUIRED.

THIS DEVICE SHOULD BE SUPERVISED WHEN USED AROUND CHILDREN.

WARNING

TURN OFF OR DISCONNECT THE POWER SUPPLYING THIS EQUIPMENT BEFORE BEGINNING WORK. THIS MAY REQUIRE THAT YOU CONTACT YOUR ELECTRIC UTILITY TO DISCONNECT POWER TO AN EXISTING LOADCENTER. THE LINE SIDE OF THE MAIN BREAKER IS ENERGIZED UNLESS POWER IS DISCONNECTED UPSTREAM. EATON WILL NOT ASSUME RESPONSIBILITY FOR PROPERTY DAMAGE OR PERSONAL INJURY RESULTING FROM MISUSE OF THE INFORMATION IN THIS PUBLICATION.

NOTICE

INSTALL EQUIPMENT IN CONFORMANCE WITH CODES.

Grounding instructions

WARNING

IMPROPER CONNECTION OF THE EQUIPMENT-GROUNDING CONDUCTOR IS ABLE TO RESULT IN A RISK OF ELECTRIC SHOCK. CHECK WITH A QUALIFIED ELECTRICIAN OR SERVICEMAN IF YOU ARE IN DOUBT AS TO WHETHER THE PRODUCT IS PROPERLY GROUNDED.

For a permanently connected product

This product must be connected to a grounded, metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the product.

This product must be installed in accordance with the National Electrical Code® (NEC®) and any applicable local codes. Before installing equipment, check with your local electrical inspector for requirements and information. If you have questions or need assistance, contact a qualified electrical contractor.

SAVE THESE INSTRUCTIONS.

Definitions

EVSE—Electric Vehicle Supply Equipment. EVSE is a general term used for all of the equipment used to supply electricity to the car.

J1772—SAE Recommended Practice for conductive charging of hybrid and electric vehicles. This standard spells out the physical dimensions of the J1772 connector and the pilot communication between the plug-in vehicle and the EVSE.

Pilot—The communication signal through the J1772 connector. This signal tells both the vehicle and the EVSE when both are ready to charge and how much current is permitted in the circuit. This signal is part of the SAE J1772 standard.

SAE—Society of Automotive Engineers. The group that organizes and leads committees of transportation experts to create standards, such as J1772, for the transportation industry.

ADA—Americans with Disabilities Act.

UL®—Underwriters Laboratories. UL is an accredited standards developer in the U.S. and Canada.

Moving, transporting, and storage instructions

Store the equipment indoors and in its original packaging until it is ready to be installed. Storage temperature should be between -40°C and $+80^{\circ}\text{C}$. Never attempt to lift, move, or carry the equipment by the EV connector cord or power cord. Improper storage or handling may cause damage to the equipment.

⚠ WARNING

ONLY QUALIFIED PERSONNEL FAMILIAR WITH THE OPERATION AND CONSTRUCTION OF THIS EQUIPMENT SHOULD INSTALL, ADJUST, MODIFY, AND SERVICE THIS EQUIPMENT. FAILURE TO FOLLOW THE INSTRUCTIONS COULD RESULT IN SEVERE BODILY INJURY OR DEATH.

NOTICE

THE USER IS RESPONSIBLE FOR CONFORMING TO ALL LOCAL AND NATIONAL ELECTRICAL CODES AND STANDARDS APPLICABLE IN THE JURISDICTION IN WHICH THIS EQUIPMENT IS INSTALLED.

NEC Article 625 requires that the coupling means of the electric vehicle supply equipment shall be stored or located at a height of not less than 18 inches (450 mm) and not more than 4 ft (1.2 m) above the floor level for indoor locations and 24 inches (600 mm) above the grade level for outdoor locations.

WARNING - Risk of Explosion. This equipment has arcing or sparking parts that should not be exposed to flammable vapors. This equipment should be located at least 18 inches (460 mm) above the floor.

Americans with Disabilities Act requirements to consider for workplace charging installation

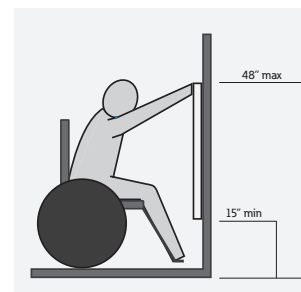
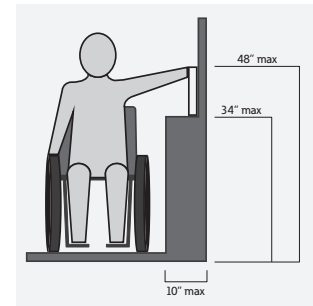
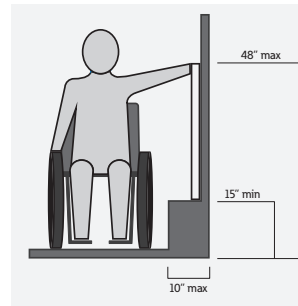
The ADA and workplace charging

The Americans with Disabilities Act (ADA) is a federal civil rights law that prohibits discrimination in public places against individuals with disabilities. As an employer installing plug-in electric vehicle (PEV) charging stations, also known as electric vehicle supply equipment (EVSE), you need to follow special design guidelines to accommodate people with disabilities, as required by the ADA. Although the ADA does not provide design standards for charging station-equipped parking spots, several industry studies and PEV planning guides do. In addition, several plans developed under the U.S. Department of Energy's (DOE) Clean Cities EV Community Readiness projects describe best practices for installing ADA-compliant charging stations.

Best practices for designing ADA-compliant PEV charging stations

When designing ADA-compliant PEV charging stations, consider accessibility, ease of use, and safety for disabled drivers, including those using wheelchairs or other assistive equipment. Key considerations include ensuring adequate space for exiting and entering the vehicle, unobstructed access to the EVSE, free movement around the EVSE and connection point on the vehicle, as well as clear paths and close proximity to any building entrances.

For information about the ADA, including the revised 2010 ADA regulations, please visit the Department's website: <http://www.ada.gov>; or, for answers to specific questions, call the toll-free ADA information line at 800-514-0301 (voice) or 800-514-0383 (TTY).



IMPORTANT: Size Upstream Circuit Breaker

Green Motion Fleet Pro allows users to select the output current rating. You can access this selection through the LCD's Admin menu that is password protected. Log into "Admin Menu -> System Settings -> General Settings" to access this setting. Default password to access Admin settings is 'eaton'. Users will be required to update to a stronger password.

Table below provides circuit breaker rating required for each output current option available. Complete the de-rating label provided and affix to the side of the EV charger.

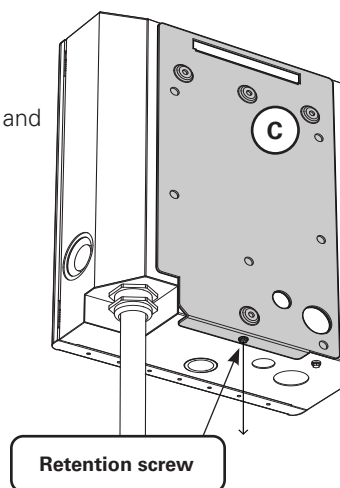
Output current setting	Circuit breaker rating
32 A (7.7 kW)	40 A
40 A (9.6 kW)	50 A
48 A (11.5 kW)	60 A
64 A (15.4 kW)	80 A
80 A (19.2 kW)	100 A

CAUTION: To avoid any damage, do not attempt to charge an electric vehicle until you validate the output current setting through the LCD and circuit breaker rating per table above.

A Prepare the EV charger(s)

STEP A-1

Remove M4 retention screw and mounting plate [C], set both aside for later.



Reference:

- Mounting plate [C]
- M4 Retention screw

Section B is instructions for mounting an EV charger to a wall. For mounting to a pedestal, skip to Section C.

This section details the instructions for various installation options. Failure to follow these instructions may result in nonfunctional and/or unprotected equipment.

Eaton suggests following the appropriate ADA installation guidelines for commercial applications.

CAUTION: Ensure the EV charger's dedicated upstream breaker handle is in the OFF position.

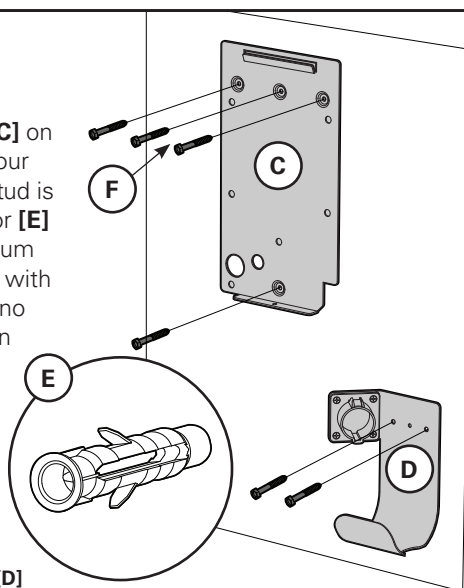
B Mount an EV charger to a wall

STEP B-1

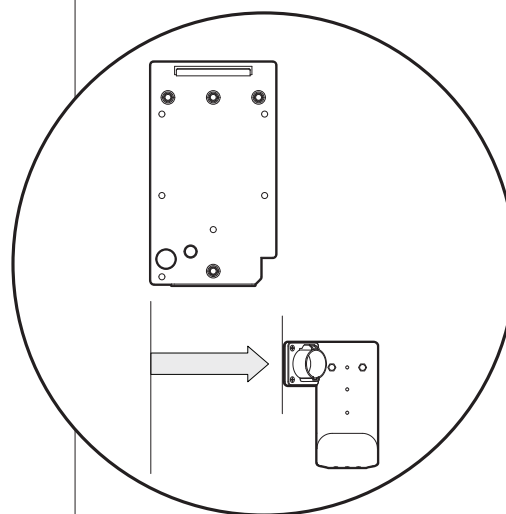
Align mounting plate [C] on wall and secure with four M6 screws [F]. If no stud is available, use an anchor [E] (provided). Align premium holster [D] and secure with two M6 screws [F]. If no stud is available, use an anchor [E] (provided).

Reference:

- Mounting plate [C]
- M6 screws [F] - x6
- Anchor [E] - x6
- Premium cord holster [D]

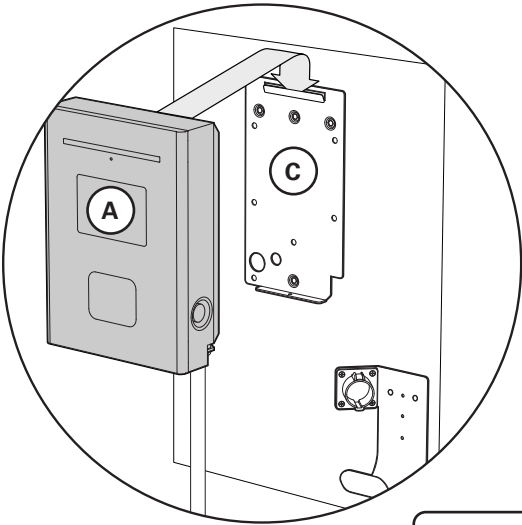


If you are planning to run external conduit from the charger [A], offset the premium holster [D] to allow clearance for conduit.



STEP B-2

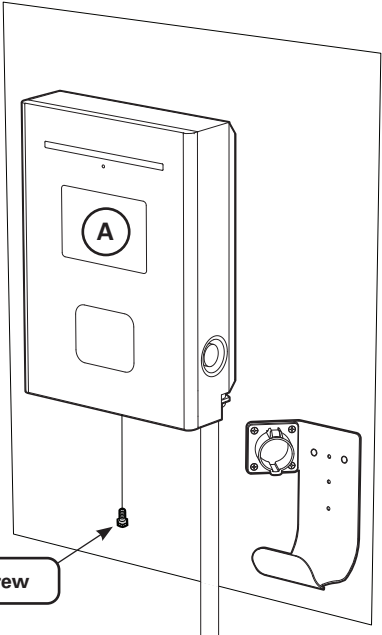
Hang charger [A] on mounting plate [C] and insert M4 retention screw.



Reference:

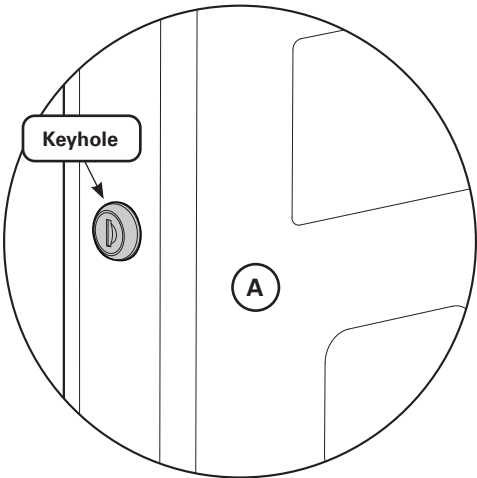
- EV charger [A]
- Mounting plate [C]
- M4 Retention screw

Retention screw



STEP B-3

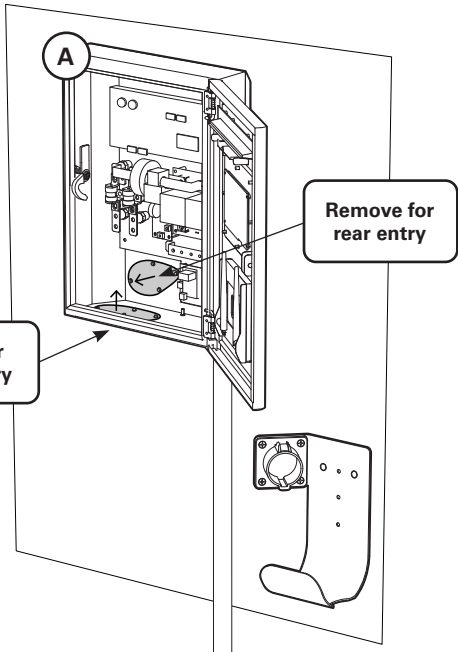
Open charger [A] using keyhole.



Reference:

- EV charger [A]

Remove appropriate blocking plate per your install application (internal wall wiring vs external conduit).



Remove for rear entry

Remove for bottom entry

STEP B-4

Run lineside wiring and ethernet (ethernet is optional) into the EV charger [A], following all local guidelines.

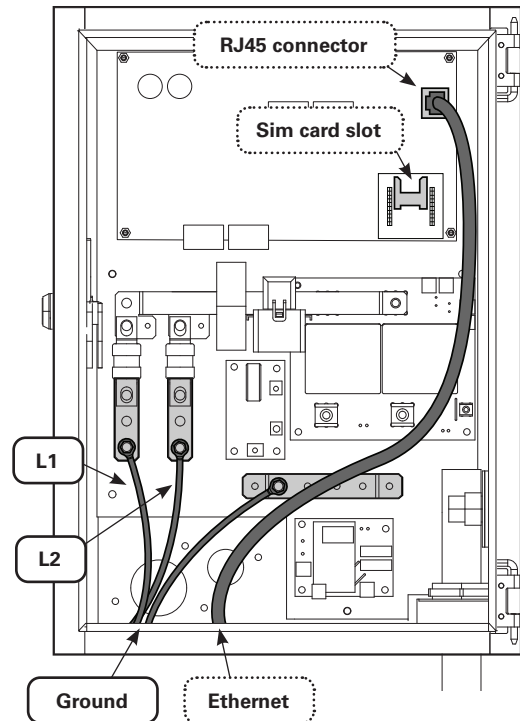
STEP B-5

Crimp the recommended wire lugs on the two main (L1, L2) and ground wires. Install two main (L1, L2), and ground wires. Torque to value shown in the table below.

If you are installing RJ45 ethernet cable, route as shown and carefully plug into the RJ45 connector available on the electronic board. If RJ45 Ethernet cable is not installed, plug the opening with [U], [L] and [M].

The following are optional steps if you would like to change the SIM card:

- Make sure unit is not powered. Carefully unplug the SIM card module shown in the image to the right.
- SIM card slot is on the bottom side of the SIM card module. Carefully remove the Eaton provided SIM card and insert a new SIM.
- Place the SIM card module back into its slot on the printed circuit board. Pay attention to the orientation of the SIM card module to avoid damage. The black wire connecting the antenna on the SIM card module is facing the top edge of the charger.
- Follow ESD precautions to avoid any damage to the electronics.



Caution: Follow all local electric codes when wiring this EV Charger

	80 A	64 A	48 A	40 A	32 A
Recommended Wire Gauge* (L1/L2)	2 AWG	3 AWG	6 AWG	6 AWG	8 AWG
Recommended Wire Guage* (GND)	8 AWG	8 AWG	10 AWG	10 AWG	10 AWG
Recommended Lug (L1/L2)	YAD2CM6E14		YAD6CM5E10		
Recommended Lug (GND)	YAD8CM5E10				
Torque (lbf-in)	21.7				
Wire Type	Copper				
Screw Type	L1/L2/GND: M5				

* Local electric code shall take priority over this recommendation. Electrical Systems supported: 240V Residential, 208V Wye

STEP B-6

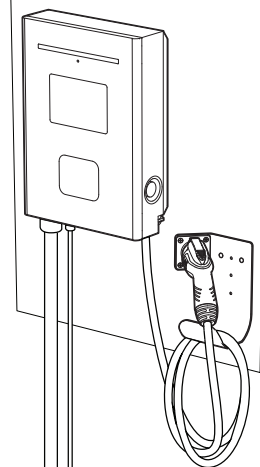
BEFORE ENERGIZING EV CHARGER, RE-CHECK ALL ELECTRICAL CONNECTIONS AFTER ALL WIRING HAS BEEN COMPLETED.

Secure the door of the EV charger [A] and reconnect power to the upstream circuit by switching circuit breaker to the ON position.

Energize the loadcenter or the panelboard. The EV charger [A] electronics should power immediately, and the LCD will indicate the status of the charger.

Once the EV charger [A] is powered, lock the door with the key [S] provided and restore the key [S] at a safe and secure location.

Installation is complete. Turn to page 15 to commission the EV charger.



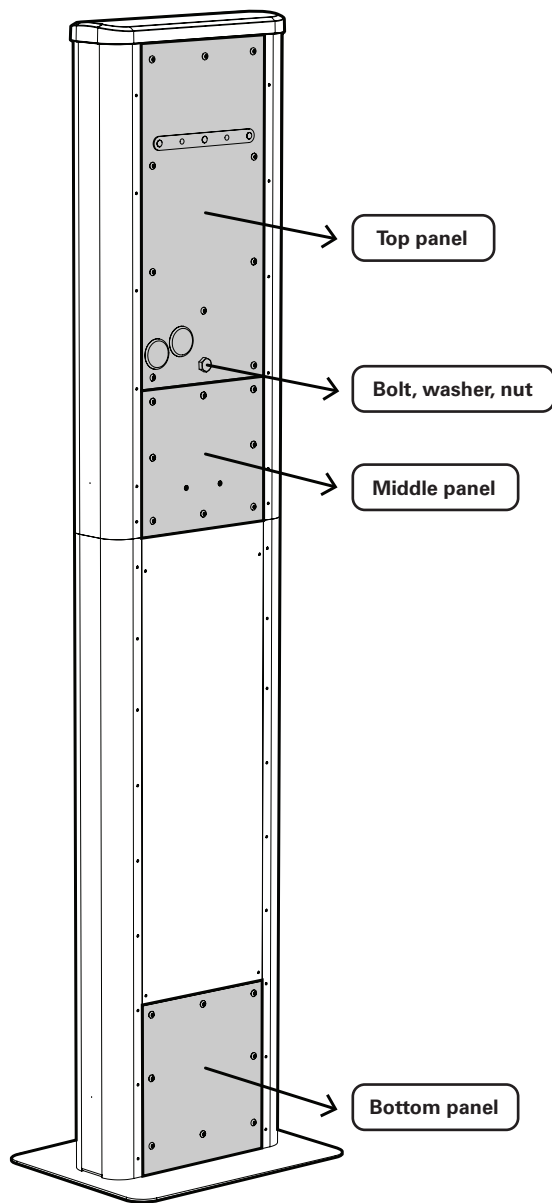
C Mount an EV charger to a pedestal

STEP C-1

Remove the middle rear cover panel.

If you have a dual pedestal, remove the 1/4"-20 Hex head bolt, neoprene washer, and 1/4"-20 serrated flange nut.

For all pedestals, remove the top and bottom cover panels.

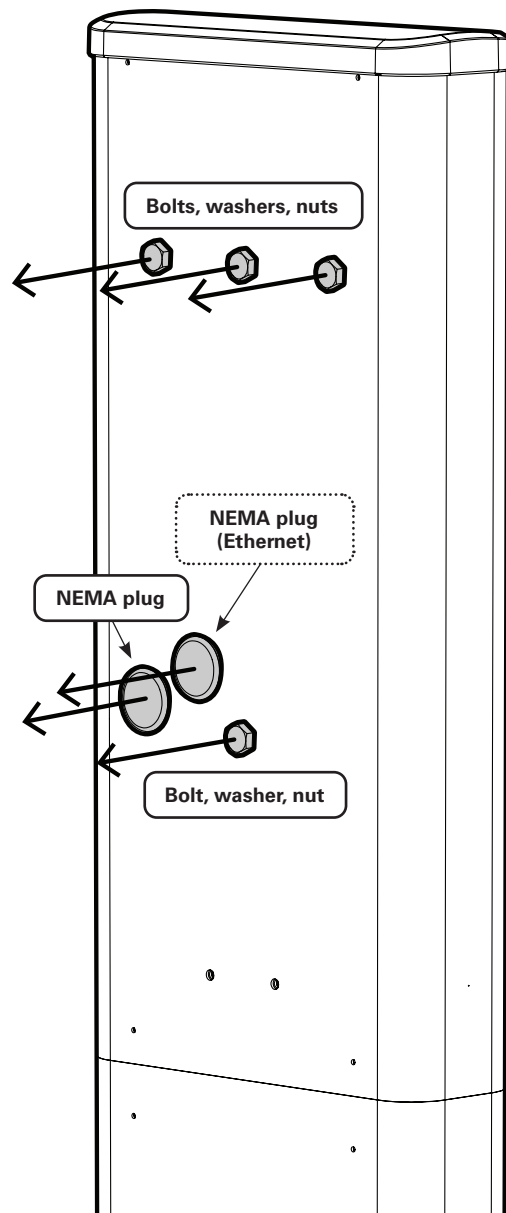


STEP C-2

On the front of the pedestal, remove the four 1/4"-20 Hex head bolts, neoprene washers, and 1/4"-20 serrated flange nuts.

Remove NEMA plug.

Only remove second NEMA plug if you intend to connect to Ethernet.

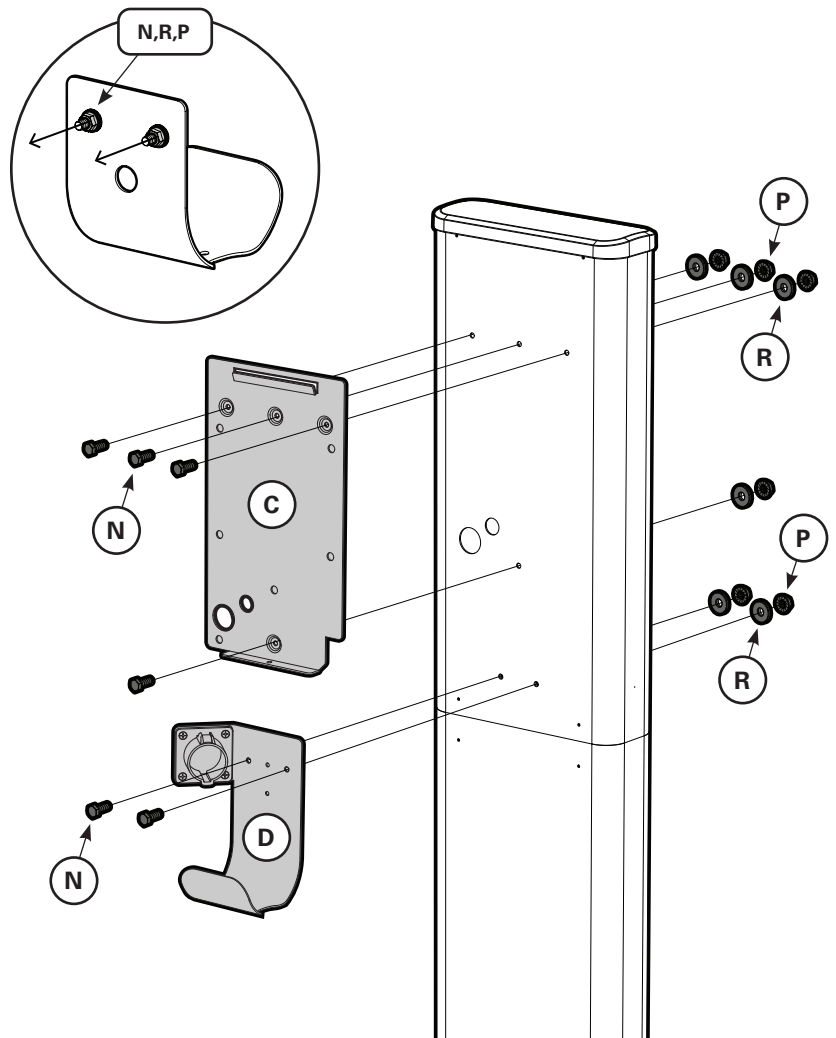


STEP C-3

Remove the two 1/4"-20 Hex head bolts **[N]**, neoprene washers **[R]**, and 1/4"-20 serrated flange nuts **[P]** from the cord hook that came with the EV pedestal.

Install mounting plate **[C]** on the EV pedestal using the four 1/4"-20 Hex head bolts **[N]**, neoprene washers **[R]**, and 1/4"-20 serrated flange nuts **[P]**.

With the removed hardware from the basic cord hook, install the premium cord holster **[D]** onto the pedestal with the two 1/4"-20 Hex head bolts **[N]**, neoprene washers **[R]**, and 1/4"-20 serrated flange nuts **[P]**.

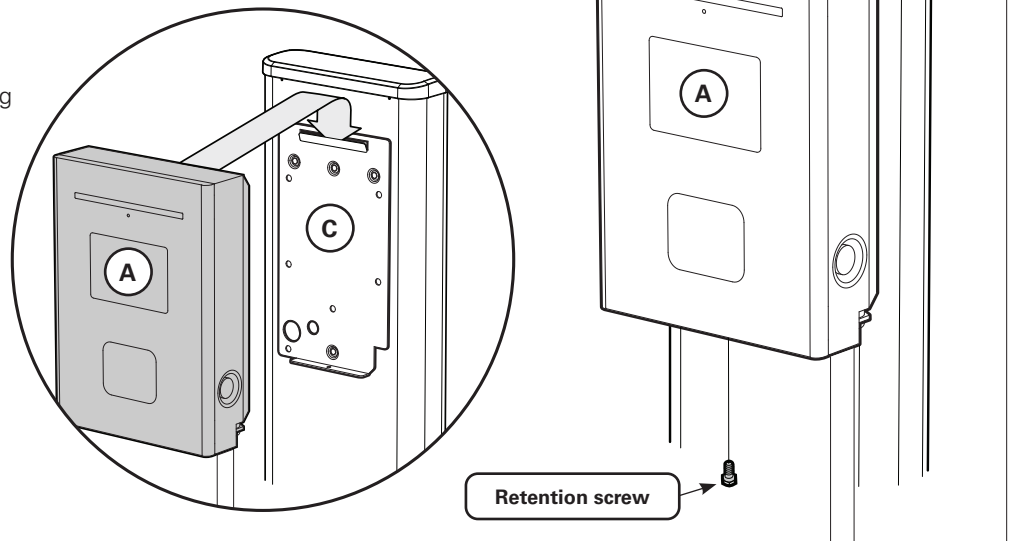


Reference:

- 1/4"-20 Hex head bolt **[N]** - x6
- Neoprene washer **[R]** - x6
- 1/4"-20 serrated flange nuts **[P]** - x6
- Mounting plate **[C]**
- Premium cord holster **[D]**

STEP C-4

Hang charger **[A]** on mounting plate **[C]** and insert M4 retention screw.



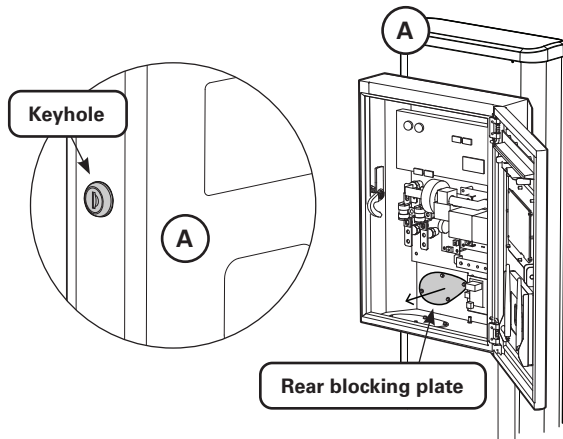
Reference:

- EV charger **[A]**
- Mounting plate **[C]**
- M4 Retention screw

STEP C-5

Open charger **[A]** using the keyhole on the side.

Remove rear blocking plate.



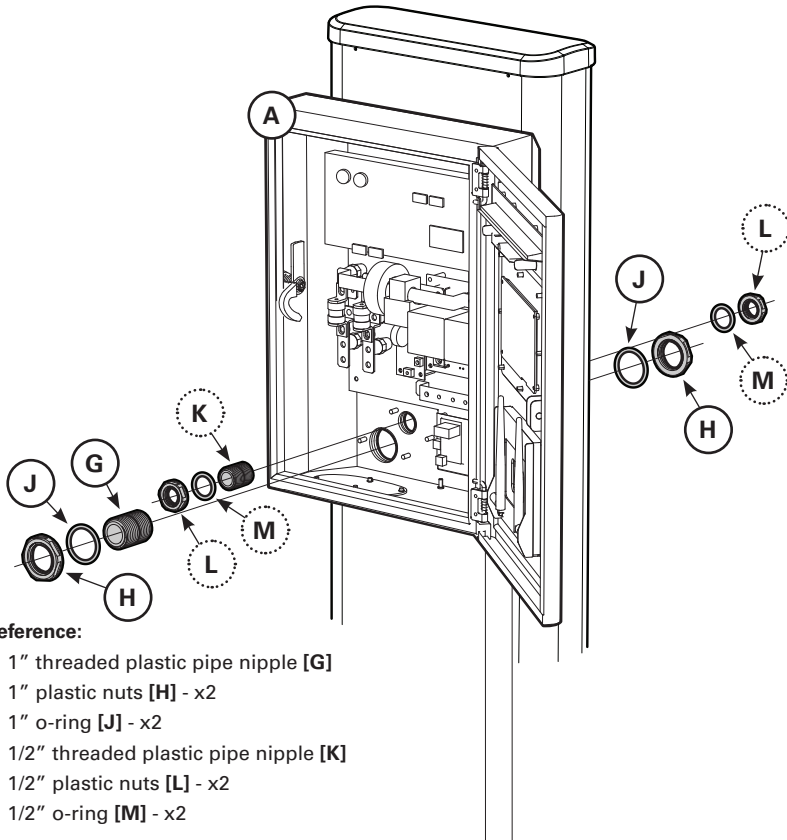
Reference:

- EV charger **[A]**

STEP C-6

Feed the 1" threaded plastic pipe nipple **[G]** through the larger hole and use two 1" plastic nuts **[H]** and two 1" o-rings **[J]** to secure it on the interior of the charger **[A]** and on the interior of the EV pedestal.

Feed the 1/2" threaded plastic pipe nipple **[K]** through the small hole and use two 1/2" plastic nuts **[L]** and two 1/2" o-rings **[M]** to secure it on the interior of the charger **[A]** and on the interior of the EV pedestal.

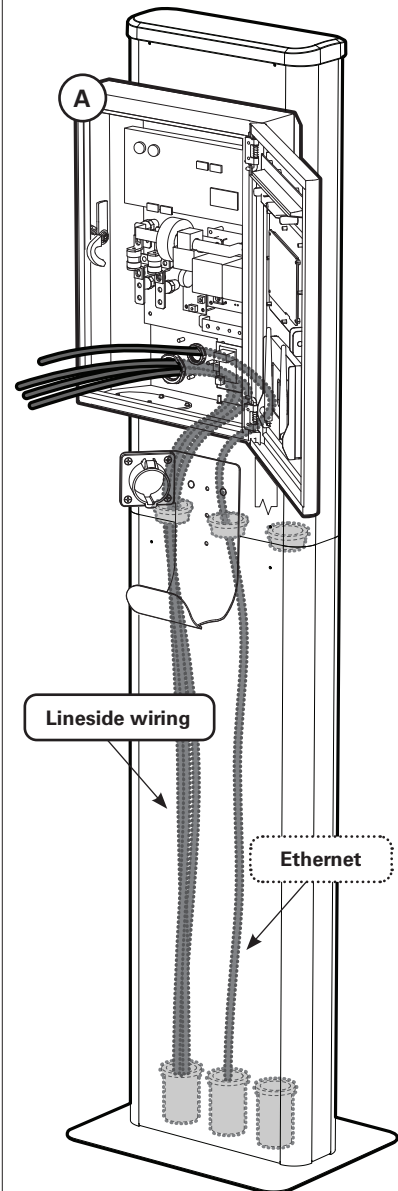


Reference:

- 1" threaded plastic pipe nipple **[G]**
- 1" plastic nuts **[H]** - x2
- 1" o-ring **[J]** - x2
- 1/2" threaded plastic pipe nipple **[K]**
- 1/2" plastic nuts **[L]** - x2
- 1/2" o-ring **[M]** - x2

STEP C-7

Run lineside wiring and ethernet (ethernet is optional) into the EV charger **[A]**, following all local guidelines.



Reference:

- EV charger **[A]**

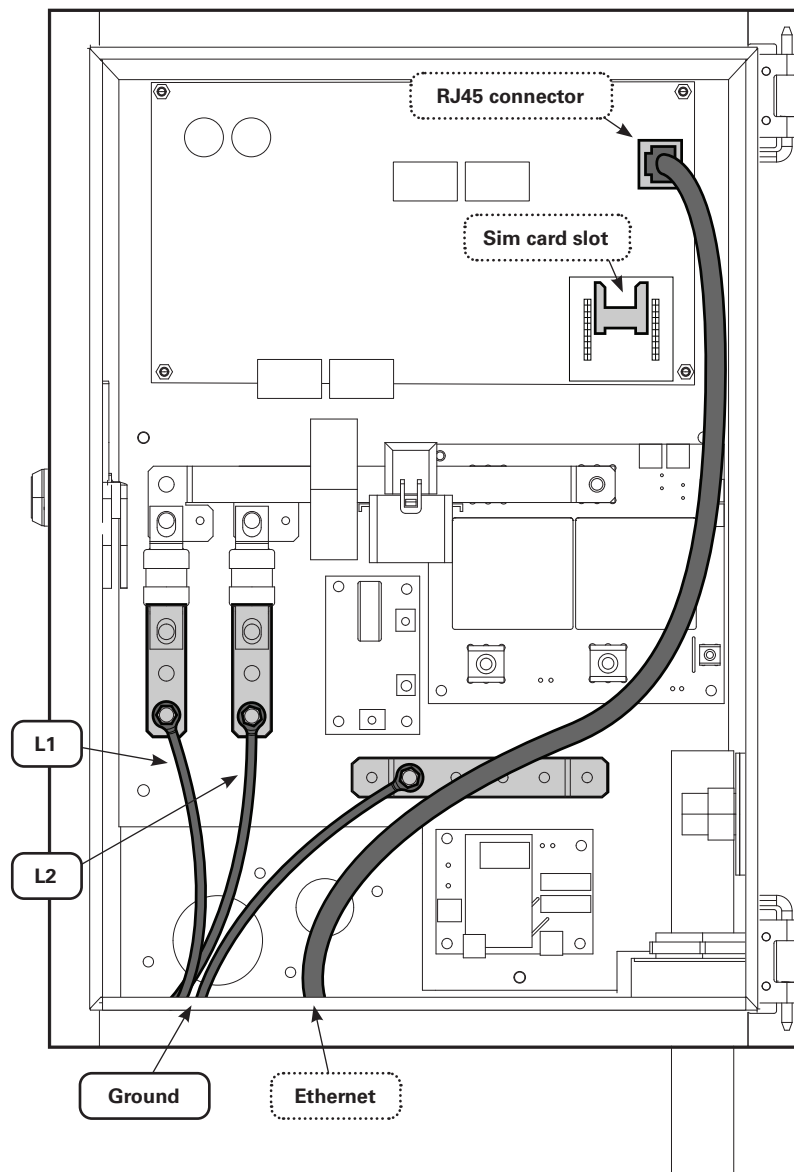
STEP C-8

Crimp the recommended wire lugs on the two main (L1, L2) and ground wires. Install two main (L1, L2), and ground wires. Torque to value shown in the table below.

If you are installing RJ45 ethernet cable, route as shown and carefully plug into the RJ45 connector available on the electronic board.

The following are optional steps if you would like to change the SIM card:

- Make sure unit is not powered. Carefully unplug the SIM card module shown in the image to the right.
- SIM card slot is on the bottom side of the SIM card module. Carefully remove the Eaton provided SIM card and insert a new SIM.
- Place the SIM card module back into its slot on the printed circuit board. Pay attention to the orientation of the SIM card module to avoid damage. The black wire connecting the antenna on the SIM card module is facing the top edge of the charger.
- Follow ESD precautions to avoid any damage to the electronics.



Caution: Follow all local electric codes when wiring this EV Charger

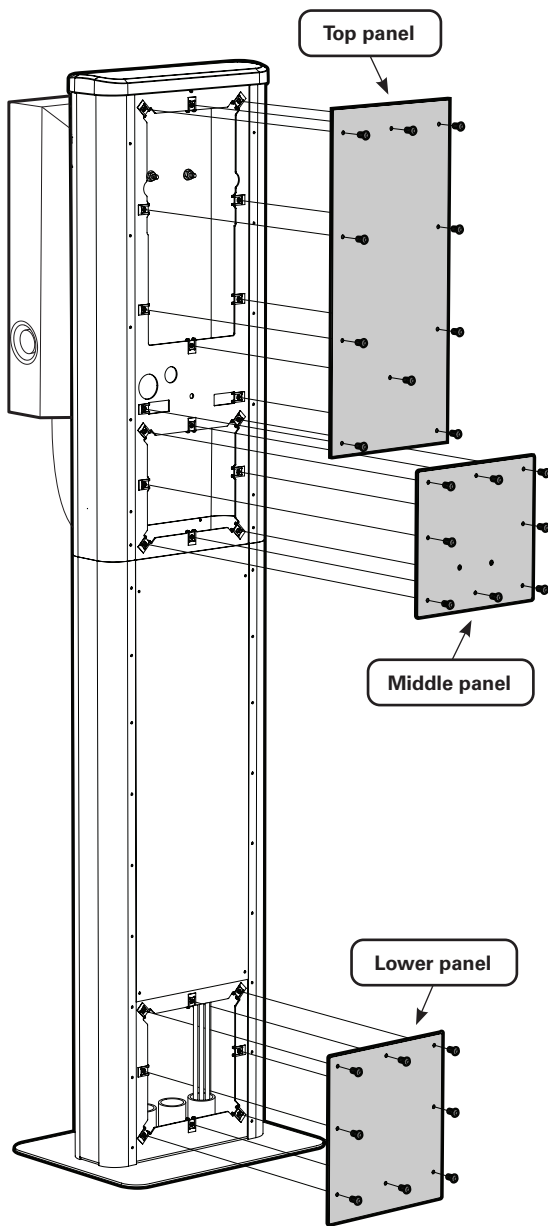
	80 A	64 A	48 A	40 A	32 A
Recommended Wire Gauge* (L1/L2)	2 AWG	3 AWG	6 AWG	6 AWG	8 AWG
Recommended Wire Guage* (GND)	8 AWG	8 AWG	10 AWG	10 AWG	10 AWG
Recommended Lug (L1/L2)	YAD2CM6E14		YAD6CM5E10		
Recommended Lug (GND)	YAD8CM5E10				
Torque (lbf-in)	21.7				
Wire Type	Copper				
Screw Type	L1/L2/GND: M5				

* Local electric code shall take priority over this recommendation. Electrical Systems supported: 240V Residential, 208V Wye

! If you are installing a second EV charger onto the same EV pedestal, then skip to Section D.

STEP C-9

Replace the three access panels starting with the top panel.



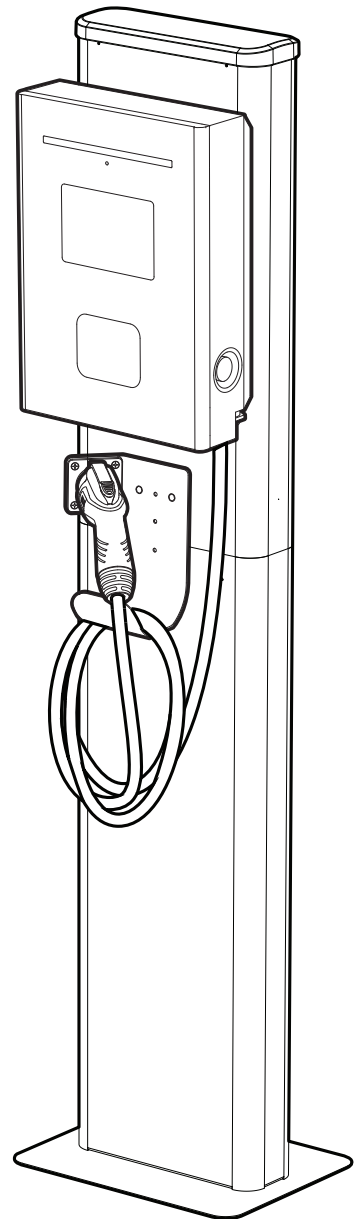
STEP C-10

BEFORE ENERGIZING EV CHARGER, RE-CHECK ALL ELECTRICAL CONNECTIONS AFTER ALL WIRING HAS BEEN COMPLETED.

Secure the door of the EV charger **[A]** and reconnect power to the upstream circuit by switching circuit breaker to the ON position.

Energize the loadcenter or the panelboard. The EV charger **[A]** electronics should power immediately, and the LCD will indicate the status of the charger.

Once the EV charger **[A]** is powered, secure the door with the key **[S]** provided and restore the key **[S]** at a safe and secure location.



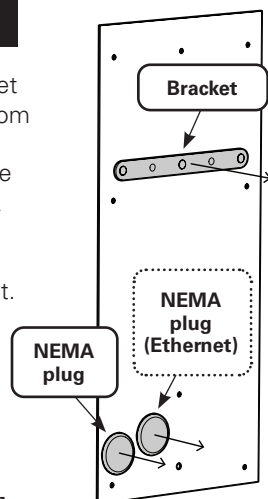
Installation is complete.

Turn to page 15 to commission the EV charger.

D Mount a second EV charger to a pedestal

STEP D-1

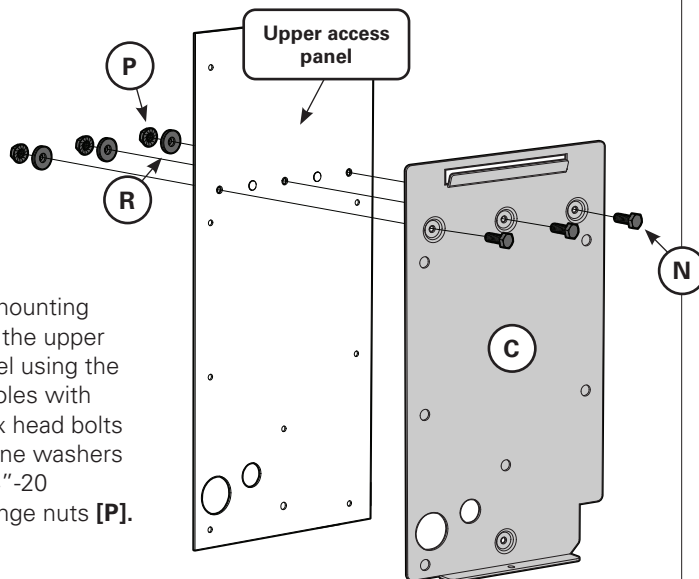
Remove the bracket and NEMA plug from the upper access panel. Only remove the second NEMA plug if you intend to connect the EV charger to ethernet.



Reference:

- Mounting plate [C]
- 1/4"-20 Hex head bolt [N] - x3
- Neoprene washer [R] - x3
- 1/4"-20 serrated flange nuts [P] - x3

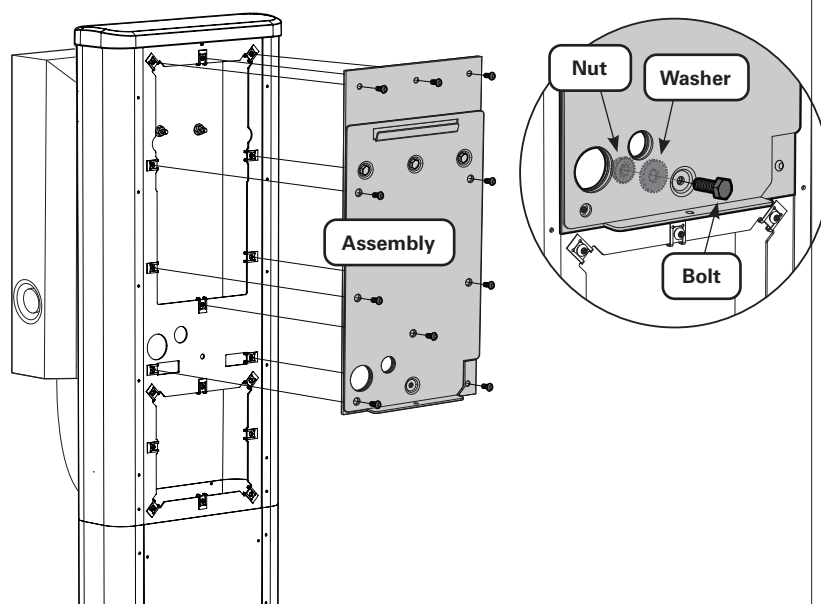
Install the mounting plate [C] to the upper access panel using the top three holes with 1/4"-20 Hex head bolts [N], neoprene washers [R], and 1/4"-20 serrated flange nuts [P].



STEP D-2

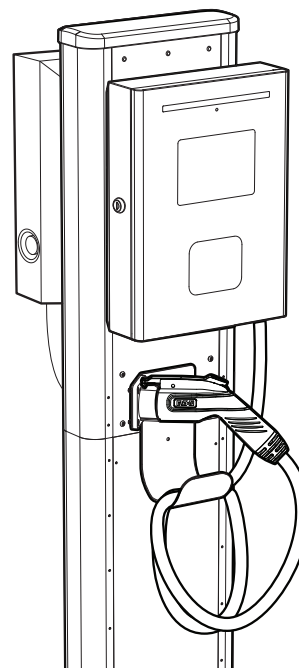
Install assembly to the EV pedestal using eight #10 black oxide speed screws.

Use a 1/4"-20 Hex head bolt, neoprene washer, and 1/4"-20 serrated flange nut to secure the lower mounting hole.



STEP D-3

! Repeat Steps C-4 through C-8 to mount the second EV charger.



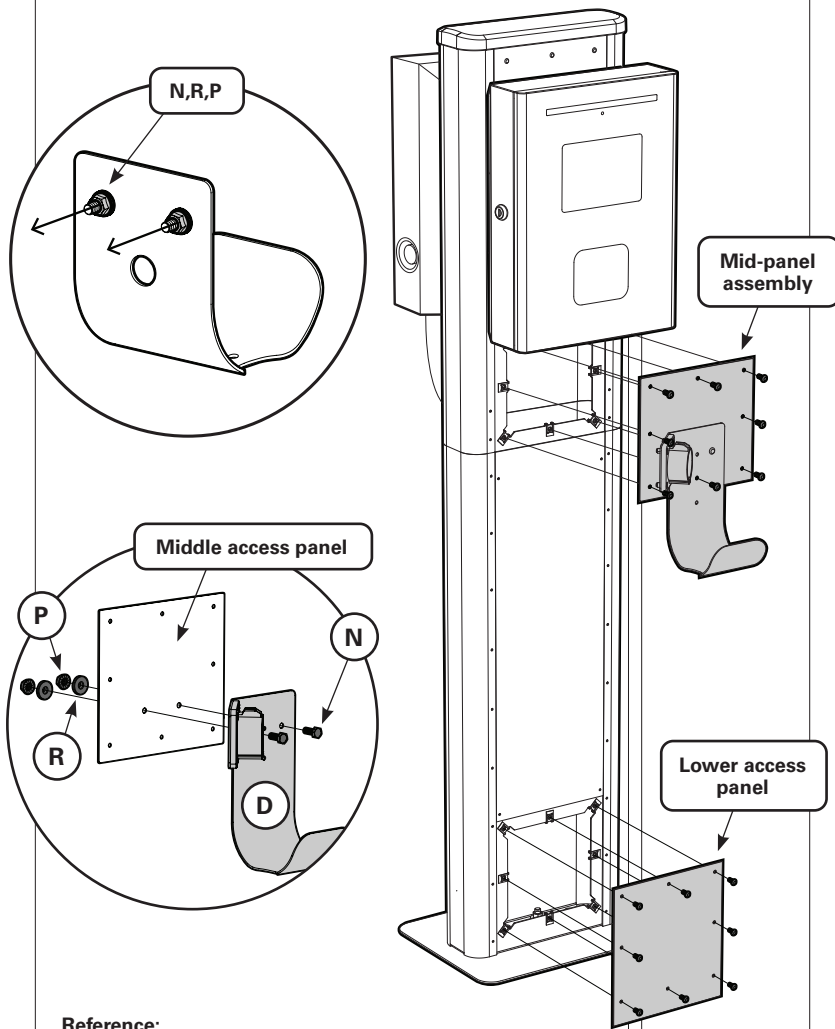
STEP D-4

Remove the two 1/4"-20 Hex head bolts [N], neoprene washers [R], and 1/4"-20 serrated flange nuts [P] from the cord hook that came with the EV pedestal.

With the removed hardware from the basic cord hook, attach the premium holster [D] to the middle access panel using the two 1/4"-20 Hex head bolts [N], neoprene washers [R], and 1/4"-20 serrated flange nuts [P].

Attach the mid-panel assembly to the EV pedestal and secure using #10 black oxide screws.

Attach the lower access panel to the EV pedestal and secure using #10 silver speed screws.



Reference:

- Premium cord holster [D]
- 1/4"-20 Hex-head bolt [N] - x2
- Neoprene washer [R] - x2
- 1/4"-20 serrated flange nuts [P] - x2

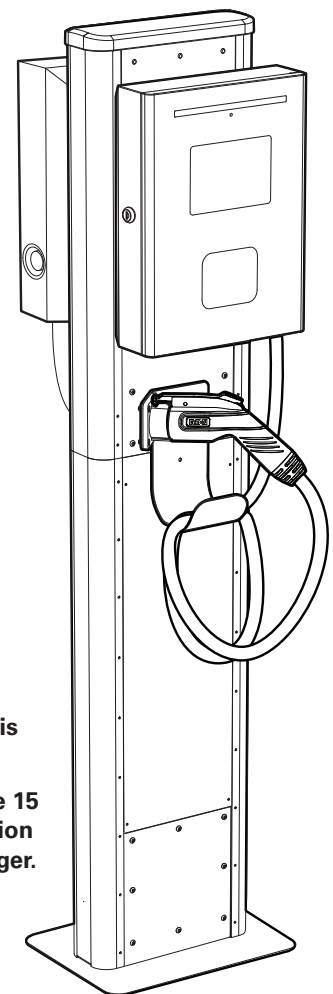
STEP D-5

BEFORE ENERGIZING EV CHARGER, RE-CHECK ALL ELECTRICAL CONNECTIONS AFTER ALL WIRING HAS BEEN COMPLETED.

Secure the door of the EV charger [A] and reconnect power to the upstream circuit by switching circuit breaker to the ON position.

Energize the loadcenter or the panelboard. The EV Charger [A] electronics should power immediately, and the LCD will indicate the status of the charger.

Once the EV charger [A] is powered, secure the door with the key [S] provided and restore the key [S] at a safe and secure location.



Installation is complete.

Turn to page 15 to commission the EV charger.

FCC

FCC ID

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

RF radiation exposure statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Canada low-power license exempt radio communication devices (RSS-210)

Common information 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.

Model Number	Wi-Fi Module FCC ID	Wi-Fi Module IC	Cellular Module FCC ID	Cellular Module IC
GMEV80CME1-WC	2AD56HLK-RM08S	30529-HLKRM08S	N/A	N/A
GMEV80CMC1-WC	2AD56HLK-RM08S	30529-HLKRM08S	RI7LE910CXNF	5131A-LE910CXNF

Wi-Fi/Ethernet/4G Connectivity

Connectivity and various other settings are available through the LCD's 'Administration Menu'. Default password to access these settings is 'eaton'. Users will be required to update to a stronger password. Refer to the product web page QR code to the right for detailed instructions on commissioning the charger using Wi-Fi, Ethernet or cellular and connect to a CPO provider.

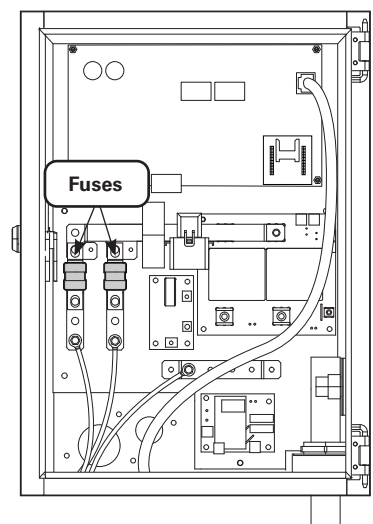
Note: Please validate cellular reception at the installation site if using a SIM card for EV charger commissioning.



Scan for detailed instructions on commissioning the charger using Wi-Fi, Ethernet or cellular and connect to a CPO provider.

Maintenance

Eaton Bussman fuses (part number: 125LET, 125A, 240Vac Fast acting. See fuses in image to the right) and the J1772 cord-set are the only replaceable parts in your Fleet Pro charger. Your Green Motion EV charger contains no other user serviceable parts. Do not attempt to repair or service any other part of the unit yourself. If the unit requires servicing, please contact Eaton customer service. The installation, maintenance, and servicing of your EV charger must only be performed by qualified personnel in accordance with applicable local regulations. Protect your EV charger from any external impact. Take appropriate precautions with electronic medical implants. Disconnect the main service power to your charger before cleaning the unit. Do not use cleaning solvents to clean any part of your charger. Use a clean, dry cloth to remove accumulated dust and dirt. Ensure that the EV charging cable is positioned in such a way so that it will not be stepped on, tripped over, or subjected to damage or stress. Do not close your garage door on the charging cord. Best practice for EV charging cable storage when not in use is to wrap the cord around the premium cord hook and holster provided. There should be visual inspection at the time of use of the cable for cracks, nicks or cuts to ensure the integrity of the cable. There should be visual inspection of the connector for damage and contamination prior to use.



Technical specifications

Description	Specification	
Catalog number	GMEV80CME1-WC	GMEV80CMC1-WC
Electrical input		
Input power	19.2 kW at 240 Vac; 16.6 kW at 208 Vac	
Input voltage	208/240 Vac	
Input (amperage) current	80 A	
Input OCPD (Breaker) rating	100 A	
Electrical output		
Power output	19.2 kW at 240 Vac; 16.6 kW at 208 Vac	
Output voltage	208/240 Vac	
Output amperage	80 A	
Connectivity	Wi-Fi, Ethernet	Wi-Fi, Ethernet, cellular
Other specifications		
Connector	SAE J1772	
Wiring	Hardwire	
RFID	Yes	
Overvoltage protection	Yes	
Mounting options	Wall and pedestal mount	
Metering accuracy	1%	
LED indications	R/G/B LEDs to indicate charger status	
LCD	5" Touchscreen LCD	
Audible Alarm	Yes	
Cable length (in feet)	25	
Safety	UL	
Ground fault protection	15mA–20mA	
kAIC	200kA	
Overcurrent protection	Yes	
Frequency rating	50Hz/60Hz	
Ambient operating temperature	–35°C to +50°C	
Storage temperature	–40°C to +80°C	
Humidity	0 to 95% Relative Humidity, Non-Condensing	
Warranty	3 years	
Enclosure	NEMA-3R rated (metal) for outdoor installation	
Certifications	cUL (UL 2594, UL 2231-1, UL 2231-2, UL 1998, UL 991), SAE, NFPA, FCC Part 15, Energy Star, OCPP 1.6J, CTEP	

Warranty statement

Warranty for Products. Seller warrants that the Products manufactured by it will conform to Seller's applicable specifications and be free from failure due to defects in workmanship and material for three (3) year from the date of original purchase. In the event any Product fails to comply with the foregoing warranty Seller will, at its option, either (a) repair or replace the defective Product, or defective part or component thereof, with an equivalent Product or component, F.O.B. Seller's facility freight prepaid, or (b) credit Buyer for the purchase price of the Product. All warranty claims shall be made in writing. Seller requires all non-conforming equipment and material be returned for evaluation unless specifically stated otherwise in writing by Seller. This warranty does not cover failure or damage due to storage, installation, operation, or maintenance not in conformance with Seller's recommendations, including as set forth in these

Terms and Conditions of Sale, and industry standard practice or due to accident, misuse, abuse, or negligence. This warranty does not cover breach of data or system security, including that of information technology infrastructure, computers, software, hardware, databases, electronic systems (including database management systems), and networks. This warranty does not cover reimbursement for labor, gaining access, removal, installation, temporary power, or any other expenses, which may be incurred in connection with repair or replacement. This warranty does not apply to equipment not manufactured by Seller. Seller limits itself to extending the same warranty it receives from the third-party supplier, to the extent such third party permits assignment of its warranty. For all other Terms and Conditions of Sale, please refer to Eaton's Selling Policy 25-000.

Troubleshooting

Condition	Troubleshooting Tip
Why is my EV charger not charging my EV?	<p>Check to see if the EV charger is powered and the LCD screen is showing the home screen. If not, check if the EV charger is wired properly and the circuit breaker is closed. If the problem persists, contact a certified electrician.</p> <p>If the EV charger continues to show 'Plug in your vehicle' screen, then make sure the J1772 connector is properly plugged into the EV.</p> <p>If the EV charger is displaying an authentication screen (Scan QR or Swipe Card to Start), then it is a networked charger managed by a CPO. You will need the CPO subscription and authorization credentials to use this charger.</p>
I see a blinking BLUE LED but my EV charger and my EV is not charging.	<p>Blinking BLUE LED indicates that EV charger is plugged into an EV but either the EV charger or the EV are not ready to start the charging. Refer to the 'Routine Operation' section of the Instruction Leaflet for more details.</p> <p>If the EV is not ready, check if its battery is fully charged or if there is a fault on the EV that is preventing it from initiating a charge.</p>
Why do I see the 'authorization failed' message on the EV charger?	<p>If an RFID is used for authentication, please make sure that the RFID card used is issued by the authorized CPO. Swipe the card over the RFID module properly and make sure that you hear a beep from the charger.</p> <p>Note that the authentication screen is timed. If the authentication process does not start within the stipulated time, the EV charger will timeout and 'authentication failed' message is displayed.</p> <p>Contact a certified electrician to make sure the RFID module is not disconnected from the main EV charger electronics.</p>
Why is the LCD screen on my EV charger blank?	<p>Check if the EV charger is wired properly and the circuit breaker is closed. Restore the EV connector back to the charger and try to reset the circuit breaker powering the charger. If the problem still persists, contact a certified electrician.</p>
I see a blinking RED LED on my EV charger. What does this mean and how can I resume normal operation?	<p>RED LED on the EV Charger blinks for various fault conditions. Some of those conditions include:</p> <ol style="list-style-type: none"> 1. EV charger fault (Over/Under voltage, Ground Fault): 1 second blink 2. EV Fault: 0.5 second blink 3. Control Pilot signal fault: Steady on <p>LCD also displays a fault code for each of these errors. To resolve these conditions, contact a certified electrician to check voltage levels feeding the charger. Check for any obvious grounding issues in wiring. Also check if L1, L2 and GND wires are connected per guidelines.</p>
I unplugged EV connector in the middle of a charge and now the EV charger is not charging.	<p>If you were using a networked charger that is controlled by a CPO, then removing the EV connector in the middle of a charge session will end that session. A new session needs to be initiated. For a non-networked charger, a new charging session will automatically start once the EV connector is plugged back into the EV.</p>
Have trouble connecting the EV charger to the CPO	<p>Refer to the EV charger product page for instructions on commissioning the EV charger using Wi-Fi, Ethernet, or cellular and connecting to a CPO provider.</p>
My EV does not have a J1772 port. Does this charger work with my EV?	<p>Certain manufacturers like Tesla utilize a proprietary connector on their vehicles. On those scenarios, the cars will ship with an adapter that will allow you to use SAE J1772 connector like the one on Eaton EV charger. Please check instructions that came with your car on where to find this adapter or contact your manufacturer. SAE J1772 is a universal charging connector widely adopted by most EV vehicle manufacturers.</p>



Scan for more troubleshooting tips on various error codes.



Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

© 2023 Eaton
All Rights Reserved
Printed in USA
Publication No. IL191014EN
Rev 03

Eaton is a registered trademark.

All trademarks are property
of their respective owners.