



GRIZZLETM EV CHARGER

DUO SMART 80A

INSTALLATION MANUAL





GRIZZL-E DUO SMART 80A INSTALLATION MANUAL



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Model Numbers:

- GRD-077-W-HW-25J48-25N48-A-GB
- GRD-077-W-HW-25J48-25N48-A-GW
- GRD-077-W-HW-25J48-25J48-A-GB
- GRD-077-W-HW-25J48-25J48-A-GW
- GRD-077-W-HW-25N48-25N48-A-GB
- GRD-077-W-HW-25N48-25N48-A-GW

This manual is for the installation of the Grizzl-E Duo Smart 80A Level 2 EVSE. This document provides instructions for the listed model numbers and should not be used for any other product.

The user assumes full responsibility the safe use of this product. Failure to do so may result in injury or damage. Read all instructions carefully and exercise caution when using the product.

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IMPORTANT SAFETY INSTRUCTIONS

This document contains instructions and warnings that must be followed when installing the Grizzl-E Duo Smart 80A Level 2 Electric Vehicle Supply Equipment (EVSE). Before installing the EVSE, read this document, including any WARNING and CAUTION symbols.

THE SYMBOLS USED HAVE THE FOLLOWING MEANINGS



WARNING: risk of personal injury



WARNING: risk of fire



WARNING: risk of electric shock



CAUTION: risk of damage to equipment

- This document provides instructions for the charging station and should not be used for any other product. Before installation of this product, review this manual carefully and consult with a licensed contractor, licensed electrician, or trained installation expert to ensure compliance with local building codes and safety standards.
- Consult a licensed electrician to ensure that this product can be safely installed.
- Ensure that the materials used and the installation procedures follow local building codes and safety standards.
- The information provided in this manual in no way exempts the user from the responsibility to follow all applicable codes or safety standards.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR ELECTRIC SHOCK

Basic precautions should always be followed when using electrical products, including the following:



Read all the instructions before using this product.



Children should not use this device.



Do not put fingers into the EV connector.



Do not touch live electrical parts.



Do not use this product if the flexible power cord or EV cable is ragged, has broken insulation, or any other signs of damage.



Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.



To avoid a risk of fire or electric shock, do not use this device with an extension cord or electrical adapter.

SAVE THESE INSTRUCTIONS

USER MAINTENANCE INSTRUCTIONS

The Grizzl-E Duo Smart Level 2 EVSE does not require routine maintenance. Check before each charging session to ensure that cables and enclosure remain in good working order and no damage exists.

The exterior of the charging station is designed to be waterproof and dust-proof (UL Type 4 Indoor/Outdoor Rating). However, periodic cleaning may be required.

To ensure proper maintenance of the charging station, follow these guidelines:

- Only use an automotive-grade soft cleaning cloth with soap and water to clean. Do not use cleaning solvents.
- Submerging the unit under water is not recommended.
- Ensure the output cable is stored on the holster after use to avoid damage.

Do not attempt to open, disassemble, repair, tamper with, or modify any components of the products. Contact Technical Support for any repairs.

MOVING, TRANSPORTING, AND STORAGE INSTRUCTIONS

- When moving or lifting the unit, always grasp and carry by the charging station body. Never attempt to carry the unit by any of the electrical cables.
- Store the unit in a dry location, away from standing water.
- Store the unit at a temperature between -30C (-22F) to 70C (158F).



WARNING: This equipment is intended only for charging vehicles that do not require ventilation during charging. Please refer to your vehicle's owner's manual to determine ventilation requirements.



WARNING: The service wiring in this section is specific to North America. Before installing the charging station, identify the type of utility connection on site. If you are unsure about the available connection on the service panel, contact a licensed electrician.

FCC DECLARATION OF CONFORMITY



This charging station complies with part 15 of the FCC Rules. Changes or modifications to the charging station not expressly approved by the manufacturer could void FCC compliance.

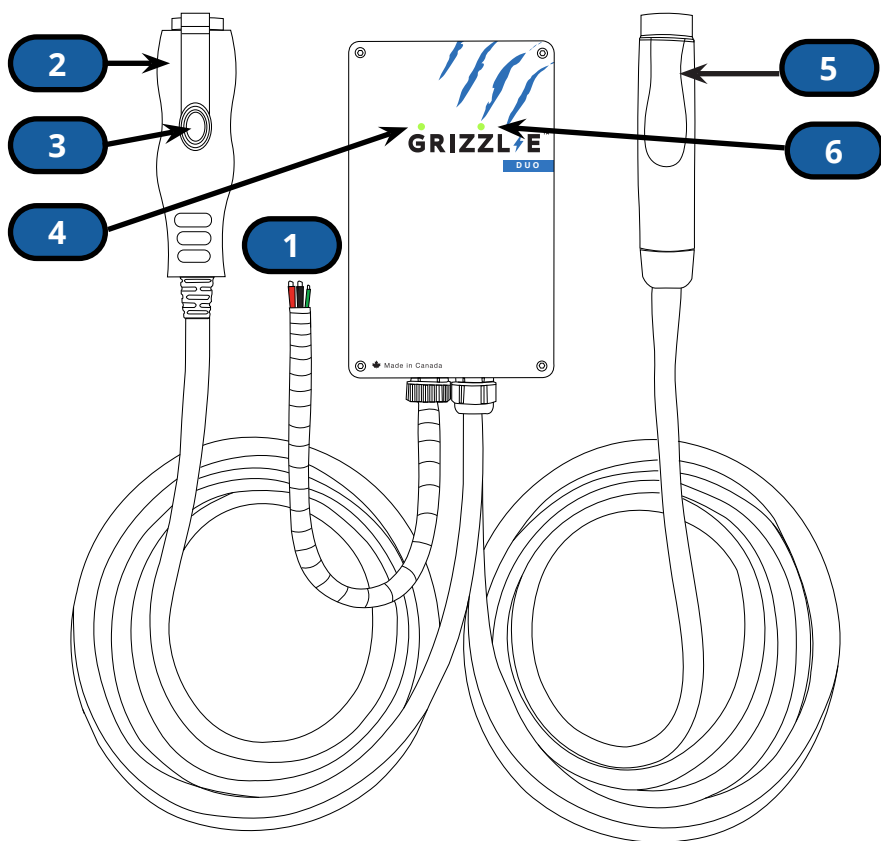
1. This charging station does not cause harmful interference
2. This device accepts any interference received, including interference that may cause undesired operation.

PRODUCT SPECIFICATIONS

Description	Specifications
EVSE Level	AC Level 2
Max Output Rating	48A 11.52 kW Output Single Connector 80A; 19.2 kW Output Dual Connector (40A each connector)
Adjustable Output Ratings	80A; 19.20 kW Maximum Output - For Use with 100A Circuit Rating 64A; 15.36 kW Maximum Output - For use with 80A Circuit Rating 56A; 13.44 kW Maximum Output - For use with 70A Circuit Rating 48A; 11.52 kW Maximum Output - For use with 60A Circuit Rating 40A; 9.60 kW Maximum Output - For use with 50A Circuit Rating 32A; 7.68 kW Maximum Output - For use with 40A Circuit Rating 24A; 5.76 kW Maximum Output - For use with 30A Circuit Rating 16A; 3.84 kW Maximum Output - For use with 20A Circuit Rating
DUAL Charging	Two Charging Connectors; Automatic Power Sharing Algorithm
Charging Connector	SAE J1772 or NACS
Charge Cable Length	25 ft. (7.6m) x2
Electrical Circuit / Input Power Requirements	Dedicated 208VAC Single Phase or 240VAC Split Phase, 50/60 Hz.; Branch Breaker: Double pole; Circuit Conductors: Line 1, Line 2, Earth/Ground
Input Power Connection	Hardwire Connection
Installation Rating	UL Type 4 Indoor/Outdoor Rating Indoor/Outdoor Rated
Operational Ratings	Temperature: -22°F to 122°F (-30°C to 50°C); Humidity: 95% RH non-condensing
Overall Dimensions	EVSE: 10.25 x 6.25 x 3.75 inches (26.0 x 16.0 x 9.3 cm)
Overall Weight	21lbs (9.5kg)
Connectivity	2.4 Ghz Wi-Fi network
Display & Indicators	LED Charge Status Indicators (Power/Ready, Charging, Fault)

INTRODUCTION & UNPACKING

YOUR CHARGER

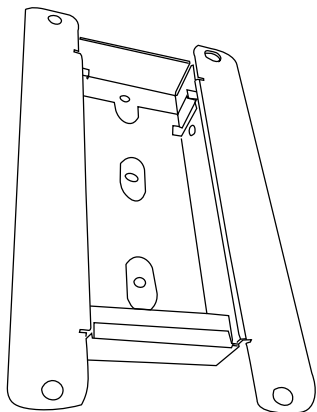


Charger Components

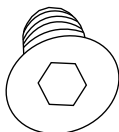
1. Input Hardwire Connection
2. Primary Output Cable (Front) J1772/NACS
3. Latch Release Button (J1772 Cable Only)
4. Indicator Light - Primary Cable (Front)
5. Secondary Output Cable (Back) J1772/NACS
6. Indicator Light - Secondary Cable (Back)

PACKAGE CONTENTS

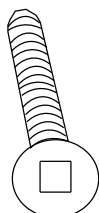
Mounting Kit



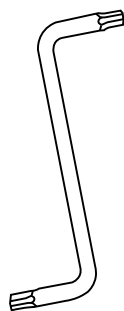
Mounting Bracket (x1)



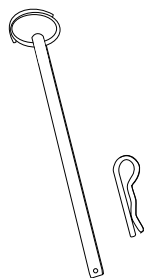
Front Plate
Screw (x4)



Back Plate
Screws (x2)

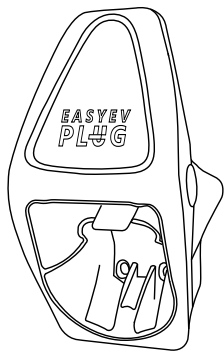


Hex Key Tool (x1)

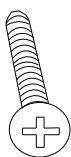


Security Pin(x1)

Charging Holster



Holster (x2)



Phillips-head
Screws (x8)



Anchor (x8)

INSTALLATION PLANNING AND SERVICE WIRING



WARNING: Disconnect the power supply to the charging station before installing or adjusting the charging station. Failure to do so may result in physical injury or damage to the power supply system and the charging station.



WARNING: To reduce the risk of fire, connect only to a circuit provided with 20-100 amperes maximum branch circuit overcurrent protection requirements in accordance with the National Electrical Code ANSI/NFPA 7- and the Canadian Electrical Safety Code, Part 1, C22.1. If you are unsure if your circuit meets these requirements consult a licensed contractor, licensed electrician, or trained installation expert.

ELECTRICAL SOURCE REQUIREMENTS

- Prior to mounting, locate an available electrical source that can support the following Input Requirements for the Charging Station per local Electrical Safety Code requirements:
 - » 80A Maximum Output Setting (Default Factory Setting): DEDICATED CIRCUIT rated for 100A; 208VAC Single Phase or 240VAC Split Phase, 50-60 Hz,
 - » 64A Maximum Output Setting: DEDICATED CIRCUIT rated for 80A; 208VAC Single Phase or 240 VAC Split Phase, 50-60 Hz,
 - » 56A Maximum Output Setting: DEDICATED CIRCUIT rated for 70A; 207VAC Single Phase or 240VAC Split Phase, 50-60 Hz,
 - » 48A Maximum Output Setting: DEDICATED CIRCUIT rated for 60A; 208VAC Single Phase or 240VAC Split Phase, 50-60 Hz,
 - » 40A Maximum Output Setting: DEDICATED CIRCUIT rated for 50A; 208VAC Single Phase or 240VAC Split Phase, 50-60 Hz,
 - » 32A Maximum Output Setting: DEDICATED CIRCUIT rated for 40A; 208VAC Single Phase or 240VAC Split Phase, 50-60 Hz,
 - » 24A Maximum Output Setting: DEDICATED CIRCUIT rated for 30A; 208VAC Single Phase or 240VAC Split Phase, 50-60 Hz,
 - » 16A Maximum Output Setting: DEDICATED CIRCUIT rated for 20A; 208VAC Single Phase or 240VAC Split Phase, 50-60 Hz,
- A Double Pole Circuit Breaker of the circuit rating must be used.
- The Charging Station must be hardwired to the circuit panel. Do not use this device with an electrical plug, extension cord, or electrical adapter.

GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment grounding conductor.

An insulated grounding conductor that is green with or without one or more yellow stripes, shall be installed as part of the branch circuit that supplies the device or system.

The grounding conductor shall be grounded to earth at the service equipment or, when supplied by a separately derived system, at the supply transformer.



WARNING: Improper connection of the equipment-grounding conductor is able to result in a risk of electric shock. Check with a licensed contractor, licensed electrician, or trained installation expert if you are in doubt as to whether the product is properly grounded.

GFCI

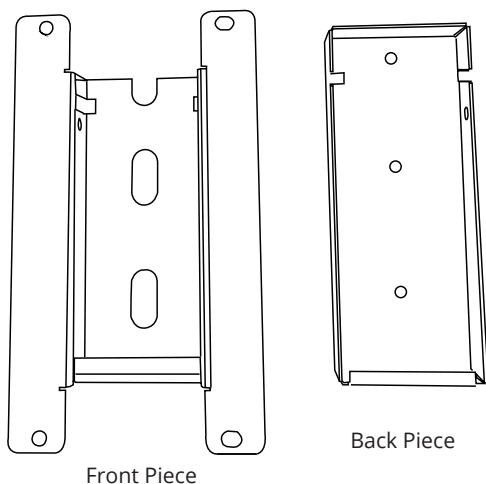
The Charger is equipped with GFCI. Additional downstream GFCI is not required.

INSTALLATION

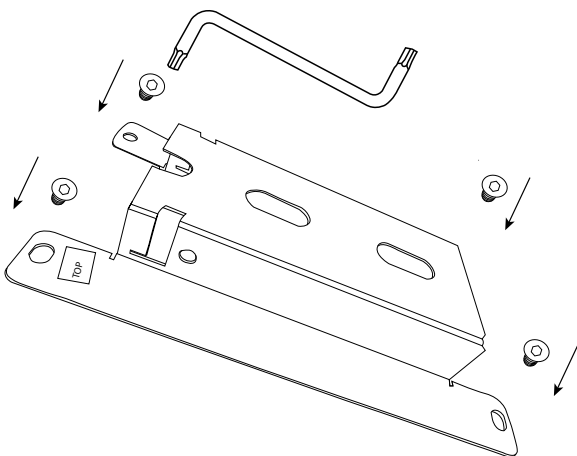
INSTALL THE CHARGING STATION

Prior to mounting, determine the location of an acceptable mounting support. All charging station products must be anchored into a mounting support such as a 2" x 4" stud or a solid concrete wall. DO NOT mount this unit directly to stucco/drywall.

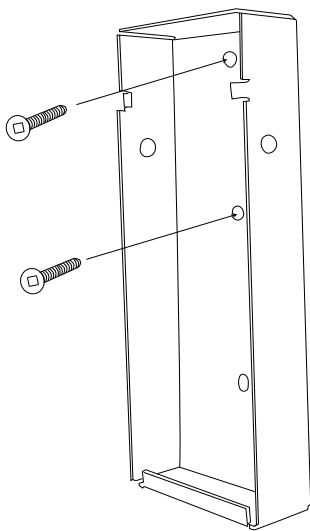
1. Separate the front and back piece of the mounting bracket by pushing down on the notch.



2. Attach the front piece of the mounting bracket to the back of the charging station using the Front Plate screws. Ensure the top of the mounting bracket matches with the top of the charging station.



3. Secure the back piece of the mounting bracket to the wall or other suitable structure using the Robertson-head screws.



The back piece of the mounting bracket has 3 holes to support attachment to various surfaces.

Use the top two holes to attach the mounting bracket to a wall stud.

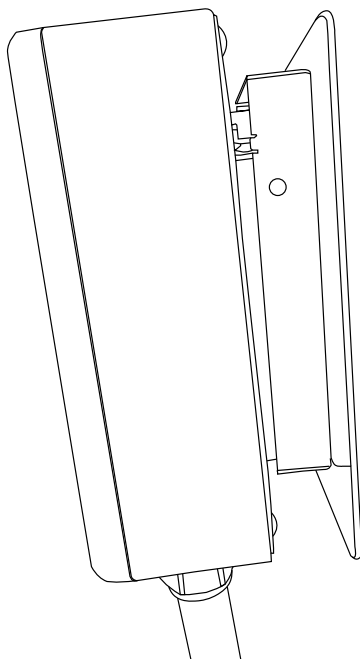
Mounting Screw Recommendations:

- For finished walls supported by wood studs, use #14 or M6 tapping screws. (Included).
- For masonry walls, use M6 mechanical screws. (Commercially available)

This device shall be mounted at a sufficient height from grade such that the height of the storage means for the coupling device is located between 0.45m (18") and 1.2 m (48") from grade.

4. Mount the charger on the wall by securing the front piece of the mounting bracket to the back piece of the mounting bracket.

The EVSE shall be installed with the power supply cord managed so that it cannot contact the floor once the EVSE is installed.



5. Secure the charger in place by inserting either the security pin or the outdoor security lock into the mounting bracket.

ADJUSTABLE MAXIMUM CURRENT OUTPUT

The Grizzl-E Duo Smart 80A EVSE features the ability to adjust the maximum current output to support 100A, 80A, 70A, 60A, 50A, 40A, 30A, or 20A Dedicated Circuit ratings as follows:

Circuit Rating	Maximum Charging Station Output
100A	80A (19.2 kW)
80A	64A (15.4 kW)
70A	56A (13.4 kW)
60A	48A (11.56 kW)
50A	40A (9.6 kW)
40A	32A (7.68 kW)
30A	24A (5.76 kW)
20A	16A (3.84 kW)

Requirements govern that only 80% of the circuit-rated load may be utilized.

ADJUST MAXIMUM CURRENT OUTPUT

1. Remove the front cover by removing the 4 screws at each corner of the charging station.
Use the Hex Key Tool to remove the front cover. Do not use power tools.

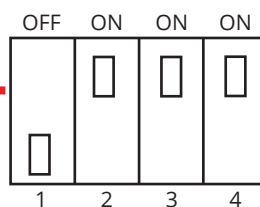
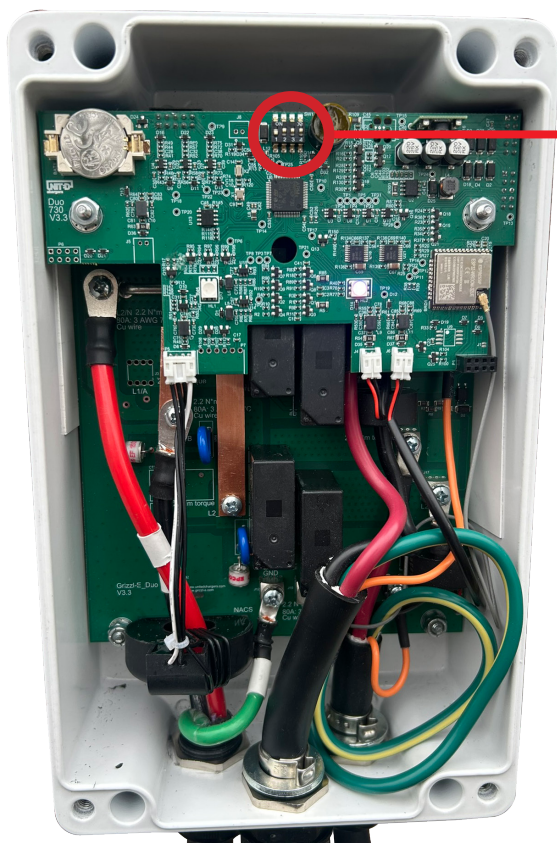


CAUTION: Do not use power tools to remove screws, as this may strip the screws. Use the provided Hex Key Tool.



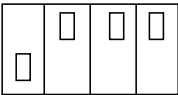
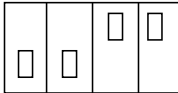
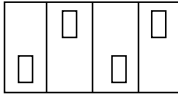
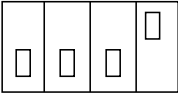
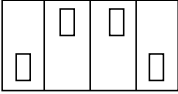
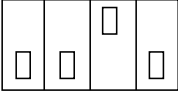
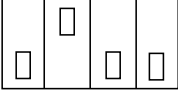
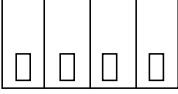
CAUTION: The LED pipes are attached to the front cover. Place the cover facing down on a flat surface to avoid damage to the LED pipes.

2. Place the front cover to the side. Locate the DIP switch on the charging station circuit board. The DIP switch is a 4-position switch located at the top of the charger.



WARNING: Do not touch live electrical parts. Disconnect the power supply to the charging station before adjusting the DIP Switches. Failure to do so may result in physical injury or damage to the charging station.

3. Adjust the Maximum Current Output to either 80A, 64A, 56A, 48A, 40A, 32A, 24A or 16A, using the following combination of DIP switch settings:

Maximum Current	Switch 1	Switch 2	Switch 3	Switch 4	Diagram
80A Maximum Current Output	OFF	ON	ON	ON	
64A Maximum Current Output	OFF	OFF	ON	ON	
56A Maximum Current Output	OFF	ON	OFF	ON	
48A Maximum Current Output	OFF	OFF	OFF	ON	
40A Maximum Current Output	OFF	ON	ON	OFF	
32A Maximum Current Output	OFF	OFF	ON	OFF	
24A Maximum Current Output	OFF	ON	OFF	OFF	
16A Maximum Current Output	OFF	OFF	OFF	OFF	

4. Once the DIP Switch Setting is adjusted, reassemble the charging station. Reinstall the top cover using the following torque force to secure the (4) socket cap screw:

Screw	Torque
M4	1.6 Nm 14 lbf-in

HARDWIRE CONNECTION



WARNING: Wiring connection must be done by a licensed contractor, licensed electrician, or trained installation expert. Follow all applicable electrical codes and safety standards. Ensure all parts and tools meet regulations. Failure to wire station correctly may lead to risk of electrocution, personal injury, or fire.

PREPARE WIRING

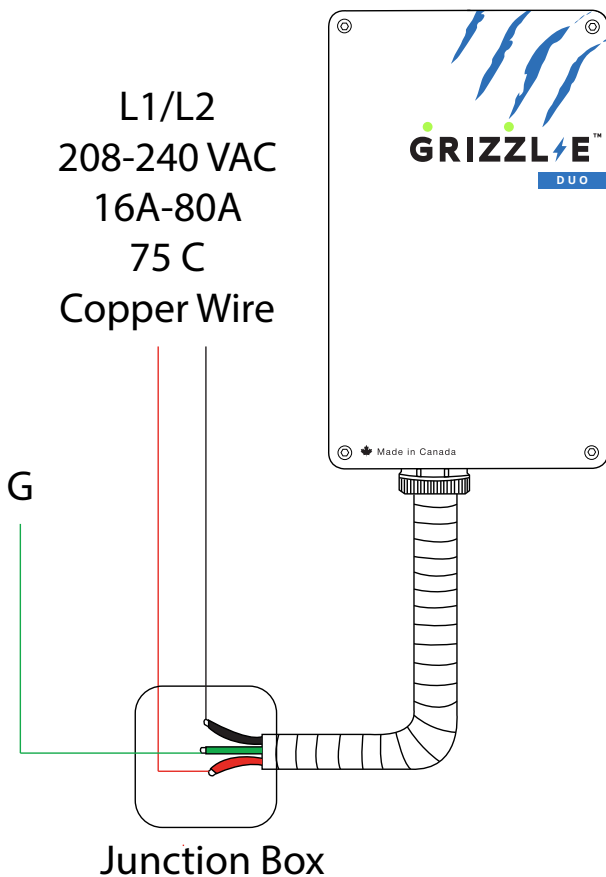
1. Select the appropriate wire gauge based on the maximum output current settings.

Maximum Current Output (As set by DIP Switches)	Wire Gauge L1 L2	Wire Gauge G
80A	3-4 AWG	3-6 AWG
64A	3-4 AWG	3-6 AWG
56A	4-6 AWG	3-6 AWG
48A	4-6 AWG	4-8 AWG
40A	6-8 AWG	6-8 AWG
32A	6-8 AWG	8 AWG
24A	8 AWG	8 AWG
16A	8 AWG	8 AWG

Refer to [Chapter Adjustable Maximum Current Output on page 11](#) for more information on maximum output current.

Follow all applicable electrical safety codes and standards. Use Red wire for L1, Black wire for L2, Green wire for G.

HARDWIRE CHARGER



1. Bring leads from both phases of the breaker along with a ground lead to a junction box.
2. Connect the leads to **Line 1** (120 VAC to Ground), **Line 2** (120V AC to Ground), and **Ground** from the Charger.
3. Connect the conduit to the junction box.

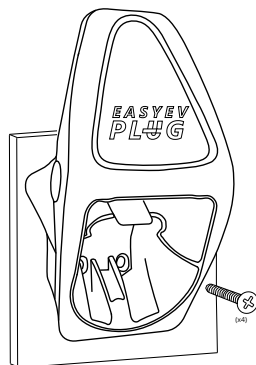
EASYEVPLUG HOLSTER

The EasyEvPlug Holster is used to protect the charging plug and manage the cable when the EVSE is not in use.

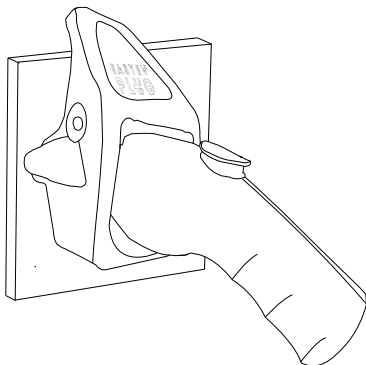
The Plug Holster can be installed at any location near the charging station.

To install the EasyEvPlug Holster:

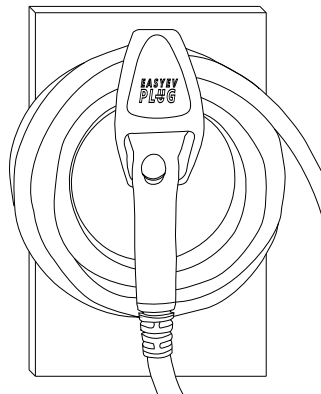
1. Hold the back of holster against the mounting surface. Fasten Phillips head screws through back holes. Use anchors if attaching directly to drywall.



2. Insert the charging connector into holster.



3. Wrap the cable on top of the holster.



Note: Remove rubber cap from charging gun before inserting into holster. Failure to do so may result in damage to the cap or holster.

SAVE THESE INSTRUCTIONS

The most up-to-date User Manual is available online:

<https://grizzl-e.com/user-manuals/>

Visit our Technical Support page:

<https://autochargers.zendesk.com/hc/en-ca>

View the full terms and conditions:

<https://grizzl-e.com/returns/>

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