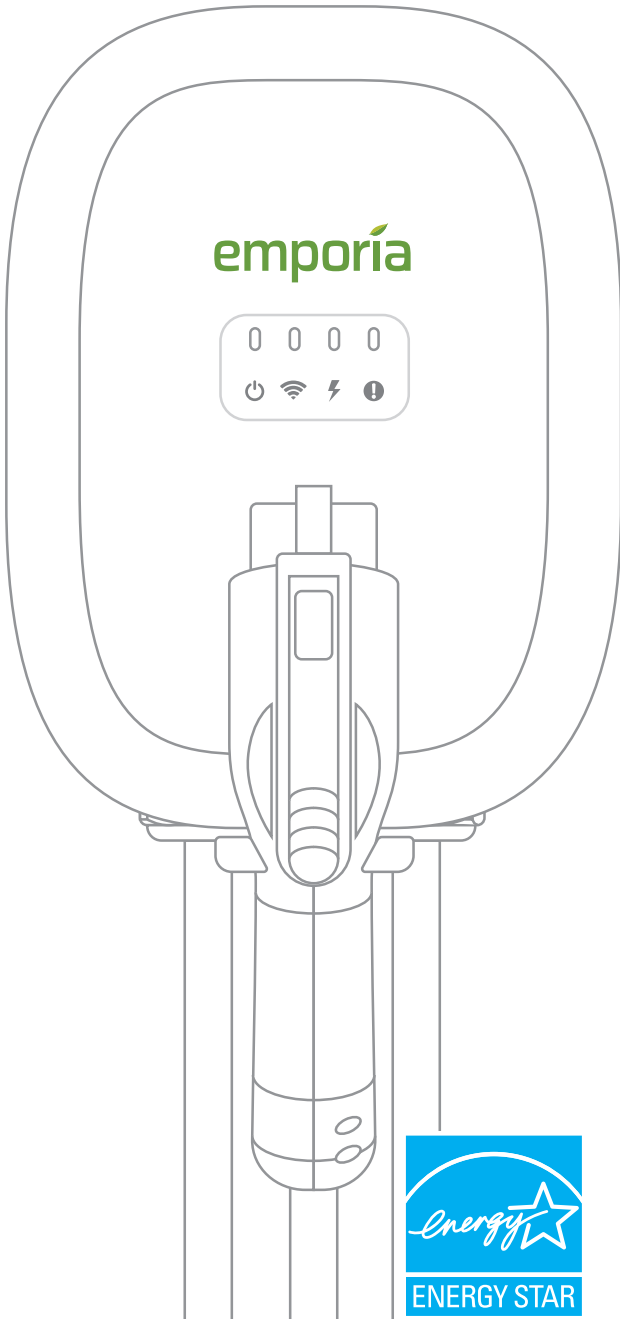


# emporia



## Emporia Smart EV Charger

# Plugged-in to Hardwired Conversion Guide

Removal of NEMA Power Cable



## **IMPORTANT SAFETY INSTRUCTIONS**

### **SAVE THESE INSTRUCTIONS**

#### **INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR ELECTRIC SHOCK!**

**Improper connection of the equipment-grounding conductor may result in a risk of electric shock, leading to death or serious injury. Emporia recommends that installation be performed by a licensed electrician or other qualified professional in accordance with the regional electrical code where it is being installed to ensure the Emporia EV Charger is properly grounded. Do not modify the provided plug - if it will not fit the outlet, have a proper outlet installed by a licensed electrician or other qualified professional.**

#### **GROUNDING INSTRUCTIONS**

##### **For Plugged-In Installation:**

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce risk of electric shock. This product is equipped with a cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**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. Do not modify the plug provided with the product - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

##### **For Hardwired Installation:**

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.

# Important Safety Instructions

## SAVE THESE INSTRUCTIONS

### INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR ELECTRIC SHOCK

- Read all the instructions before using this product.
- This device should be supervised when used around children.
- Do not put fingers into the electric vehicle or charger connectors.
- The Emporia EV Charger is intended for use with electric vehicles only. Specifically, it is intended only for electric vehicles not requiring ventilation during charging.
- The Emporia EV Charger is intended to be installed in stationary, grid-tied power systems. Do not use the Emporia EV Charger with back-up generators.
- Do not use the Emporia EV Charger in any manner other than specified in the Installation and Usage Guide.
- Do not attempt to disassemble or repair any of the components of the Emporia EV Charger. There are no user serviceable parts inside.
- Do not use this product if the flexible power cord or charging cable is frayed, has broken insulation, or any other signs of damage.
- Do not use this product if the enclosure or the connector is broken, cracked, open, or shows any other indication of damage.
- Do not install the Emporia EV Charger in environments with explosive gas or vapors; nor where temperatures are outside its operating range of -22°F to 122°F (-30°C to 50°C).

# Moving and storage instructions

- Improper moving or storage of the Emporia EV Charger may result in damage to the product that could result in a risk of fire or electric shock during subsequent use.
- Handle charger and packaging with care and avoid dropping it. When moving or lifting the Emporia EV Charger, always grasp the unit by the charging station enclosure. Never carry or lift the Emporia EV Charger by either the power cable or charging cord.
- Store the Emporia EV Charger indoors and in its original packaging until it is ready to be installed. Storage temperature should be between -22°F to 122°F (-30°C to 50°C).
- Always place protective cover on the J1772 EV Charger connector when not in use. The NACS connector does not have a cover.
- Modifying the EV Charger in any way not outlined in this installation guide, including drilling holes in the charger, will void the manufacturer warranty.

## Need help?

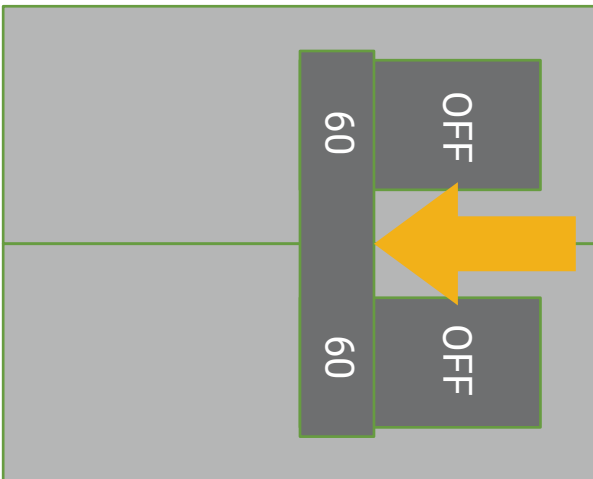
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- ✉ [support@emporiaenergy.com](mailto:support@emporiaenergy.com)
- ☎ 1-844-EMPORIA (367-6472)

# Before converting from plugged-in to hardwire



Follow the instructions in the **Installation and Usage Guide** provided with the Emporia EV Charger to mount the charger in a suitable location.

**Install and turn off the dedicated dual-pole breaker that will power the EV Charger.**



## Need help?

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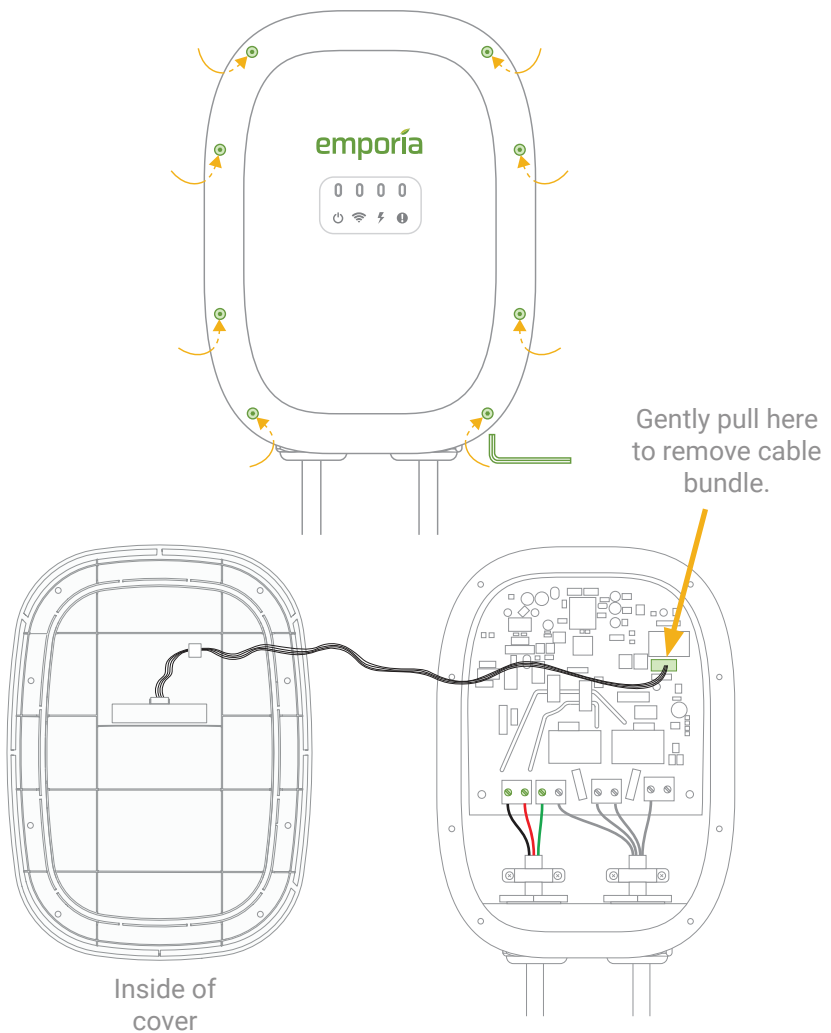
# Conversion instructions:

## Step 1




Use the 3mm Allen wrench, provided with the EV Charger, to remove the eight screws securing the front cover to the rear enclosure.

**Caution: There is a cable connecting the cover to the circuit board in the EV Charger. To remove the cable, grab the cable bundle near the circuit board and gently pull it away from the circuit board.**



## Need help?

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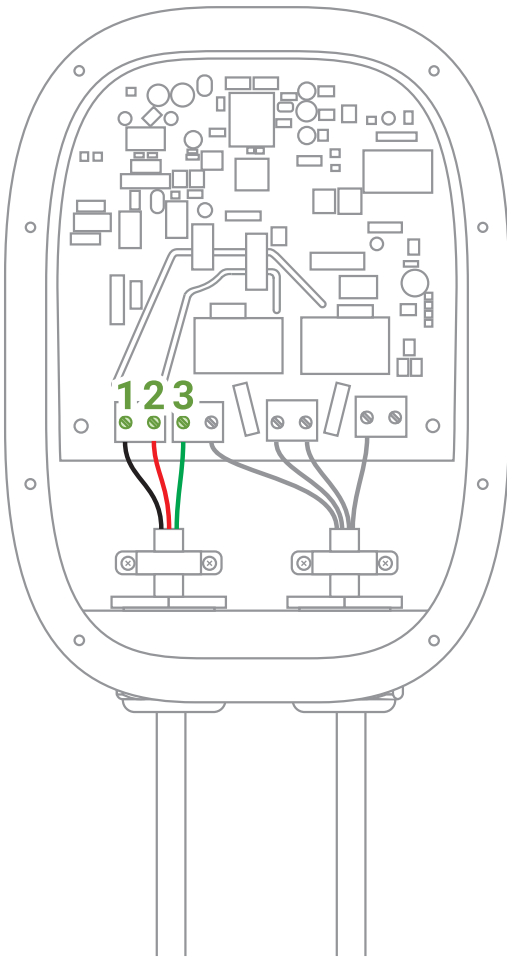
# Conversion instructions:

## Step 2





Using a flathead screwdriver, gently unscrew (counter clockwise) terminals 1, 2, and 3 so that the black, red, and green NEMA cable wires may be removed from their screw terminal housings.

**Be careful not to overtorque the screw terminals. Use a maximum torque of 1.2 Nm (10 in-lb).**



### Need help?

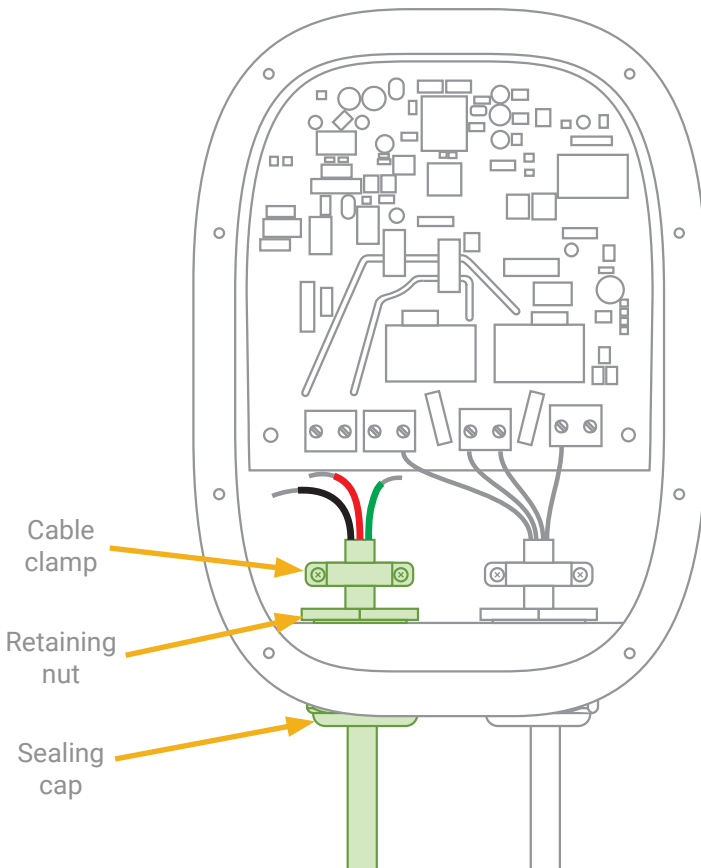
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# Conversion instructions:

## Step 3



Using a Phillips #1 screwdriver, remove the two screws of the cable clamp which secure the NEMA cable to the EV Charger housing. Loosen the sealing cap of the cord grip, then remove the NEMA cable from the assembly. Finally, unscrew the retaining nut inside the EV Charger housing while holding the cord grip in place, and remove the cord grip from the assembly.



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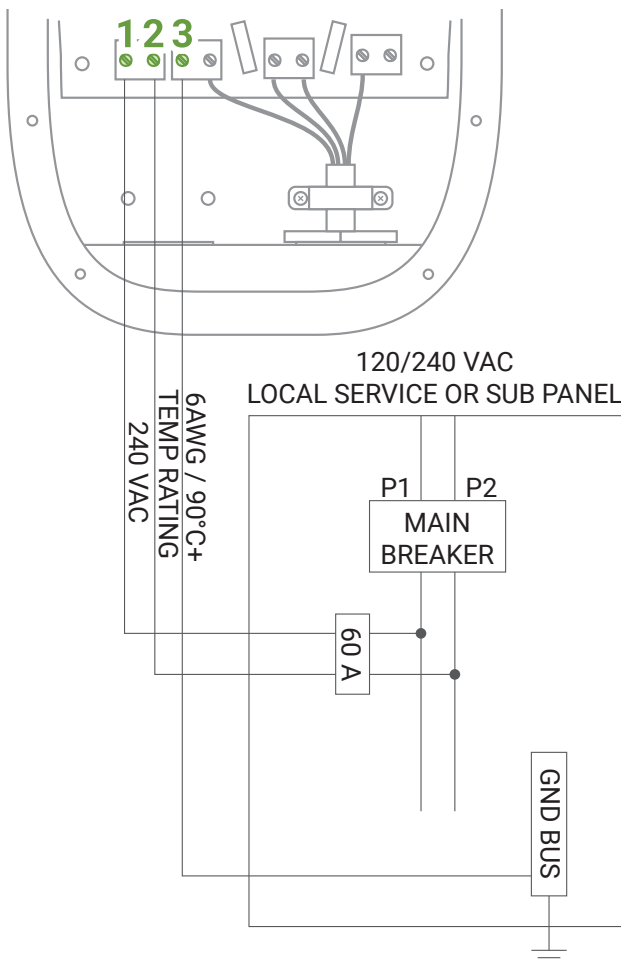
# Conversion instructions:

## Step 4





Wire the EV Charger to the dedicated, dual-pole breaker using 3x6 AWG copper 90°C wire routed in 1" water-tight conduit and fittings. Verify proper conduit fit prior to installation. Other wire types and conduit sizes may be permitted by the local electrical codes. Connect phase 1 and phase 2 wires to terminal 1 and terminal 2. Connect Ground to terminal 3.

**Be careful not to overtorque the screw terminals. Use a maximum torque of 1.2 Nm (10 in-lb).**



### Need help?

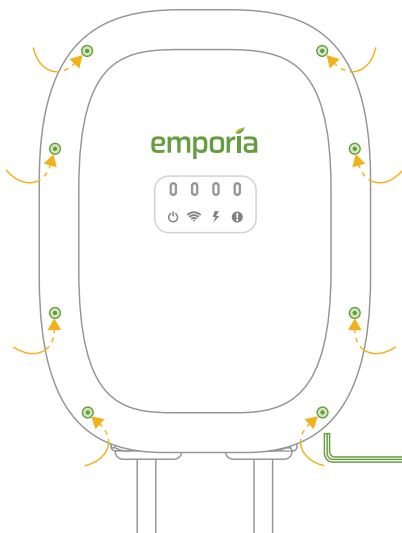
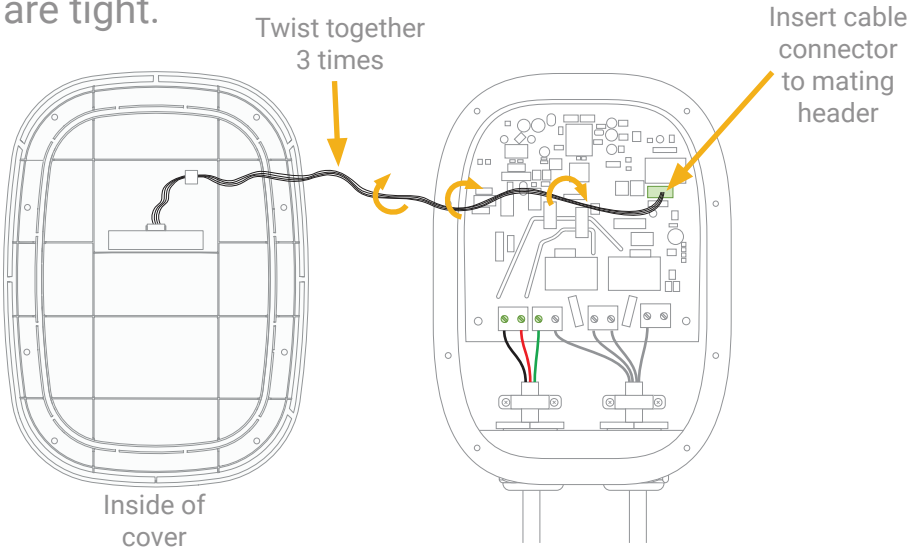
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# Conversion instructions:



## Step 5



Reconnect the front cover to the EV Charger by twisting the cable from the front cover three times and then inserting the cable connector into its mating header on the charger's circuit board. Replace the front cover on the rear housing and then use the Allen wrench, provided with the EV Charger, to replace the eight screws securing the front cover to the rear housing. Verify all screws are tight.



## Need help?

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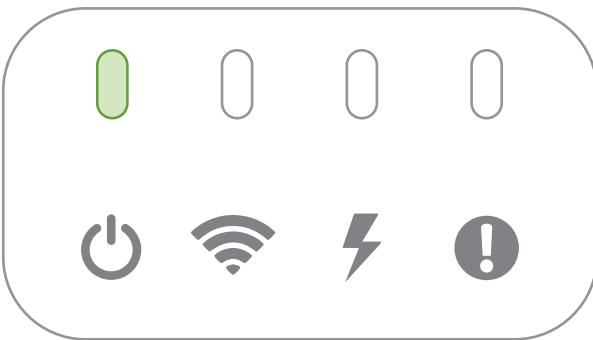
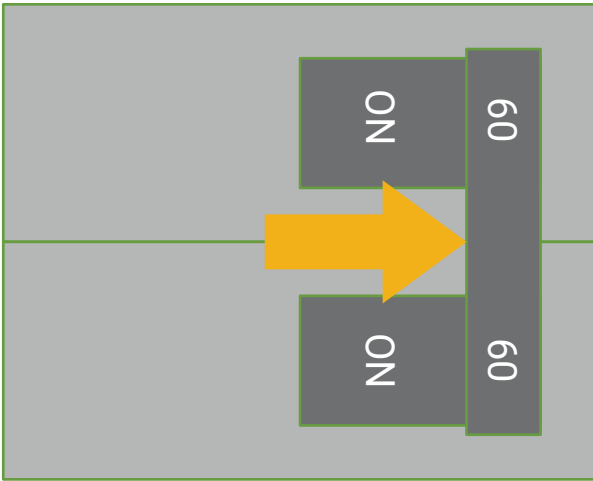
# Conversion instructions:

## Step 6






Turn on the breaker and ensure that the power light on the front of the EV Charger is illuminated.

Resume installation by following instructions in the **Installation and Usage Guide** provided with the EV Charger, starting with **Complete Setup**.



## Need help?

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