

# **Ford Charge Station Pro**

# Installation Guide

**80 AMP WALLBOX** 

**Electric Vehicle Charging Station** 

Ford Customer Support - Call 1 (800) 392-3673

THIS DOCUMENT SUPERCEDES CHARGE STATION COVER PAGE AND LED STATUS PAGE FROM INSTALL GUIDE

#### LED Status

	Status	Explanation
	Off	The station is not grid powered
	Dim blue	The station is grid powered
	Bright blue	The station is grid powered, plugged in and ready to charge
<u> </u>	Pulsing blue	The station is plugged and and charging
NAME AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 1	Dim green	The station is powered by battery backup and not plugged in
	Bright green	The station is powered by battery backup, plugged in and ready to discharge
	Pulse green	The station is powered by battery backup, plugged in and discharging
	Pulse Green/Pulse Blue	The station is powered and locked. Station will not charge or discharge
6	Solid red	The station has experienced a non-recoverable fault
	Solid amber	The station has a fault and trouble shooting is required
	Pulse Red	The station has experienced a ground fault
	Solid Amber/Pulse Blue	The station is charging at a reduced rate
	Pulsing White	Setup mode Wifi/Bluetooth
	Solid White	Station Reset

#### Maintenance

While there is no maintenance for the internal works of the unit, the exterior does require some basic, common sense maintenance. The following maintenance can be performed by the owner/user. All other service must be conducted by qualified personnel. If there is any damage to the charger, contact Ford. General exterior maintenance is recommended to be performed every six months depending on the environment. In harsh environments, maintenance should be performed more often.

#### General exterior maintenance

Regular cleaning is recommended to avoid accumulation of debris/dust/dirt on or around the unit. Wipe surfaces with a soft cloth dampened with water, or for harder to removed marks, use an alcohol based cleaner. Do not spray with high-pressure cleaning devices or use abrasive chemicals. Check for cuts, cracks, damage, and debris. If debris is present, remove it. If you find damage, contact Ford. Check for damage and corrosion. If present, contact Ford. Check the HMI for damage/signs of faded color that is clearly visible. Ensure there is no debris or damage inside or around the cable, cable holder and connector/plug. If present, remove debris and/or notify the Ford of any damage. Check the connector/plug pins for any signs of corrosion and contact Ford, if there is any damage to the pins. Check for Snow/Ice buildup around the unit and clear the area around the unit. This should be checked daily in areas with high snowfall.

#### IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE INSTRUCTIONS- This manual contains important instructions for model NL38-10C823-AA that shall be followed during installation, operation and maintenance
- b) Wiring information

Terminal	Amperage	Wire Size AWG, 90°C	Torque in-lbs. (Nm)
A/L1, B/N	80	3	60 in-lbs. (6.8 Nm)
Earth		6	35 in-lbs. (4 Nm)
DC+, DC-	34	8	35 in-lbs. (4 Nm)
RS-485 Terminals		18	3 in-lbs. (.3 Nm)

c) To reduce the risk of electrical shock, and to ensure the safe installation and operation of this equipment, the following safety symbols appear throughout this document to indicate dangerous conditions and important safety instructions



DANGER Hazardous voltage. Will cause death or serious injury. Turn off Power before working on this equipment. This indicates a situation where the present voltage can cause injury or death. Extreme caution is required when servicing or installing the equipment referenced.



DANGER Explosion hazard. This equipment has arcing or sparking parts that should not be exposed to flammable vapors. Use extreme caution and follow instructions carefully.



WARNING! This indicates a situation where failure to follow instructions may be a safety hazard or cause equipment malfunction. Use extreme caution and follow instructions carefully.



Indicates the connection point for a ground conductor

- d) The maximum rated ambient temperature of this device is 113°F (45°C)
- e) Use 3 AWG, 90°C copper wire only for AC connections (A/L1 and B/N)
- f) Use 18 AWG, 600v copper wire for All RS-485 connections.
- g) CAUTION to reduce risk of fire, connect only to a circuit with 100 amperes maximum branch circuit overcurrent protection in accordance with the National Electric Code, ANSI/NFPA 70.
- h) GROUNDING INSTRUCTIONS- This unit is to be connected to a grounded, metal, permanent wiring system; or an equipment-grounding conductor is to be run with circuit conductors and connected to an equipment-grounding terminal.
- This equipment should be installed at least 18 inches above floor or ground level.
- j) To maintain Type 4 enclosure rating, use Listed conduit fitting rated Type 4 or 4X.

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## Installation Method Checklist DO NOT DRILL ANY HOLES IN CHARGER UNTIL METHOD IS DETERMINED Minimum 100 Amp Service Available for Standard 80 Amp Installation 1 If Customer does not have 100 Amp available, refer to Amp Setting Switch to adjust Charger Amperage (Listed in Table of Contents) 2 Standard Mounting to Interior Stud Wall (Hardware Included) Exterior Mounting to Non-Standard Wall (Concrete, Brick, Non-wood surfaces) 3 Non-Standard Mounting hardware not supplied - Alternate Hardware chosen must support 100 Lbs. Mounting requiring watertight Glands (Conduit Mounting Hardware not supplied). 4 Rigid Conduit is preferred installation method. AC Rear Inlet Wiring Method (Standard - Mounting Hole supplied in Charger) 5 NOTE: Remove Rear Plug prior to attaching Charger to Mounting Bracket if this method is chosen AC Left Inlet Wiring Method (Alternate - Requires Drilling for 1" Trade Size Conduit) 1" Meyers Hub (Type 4 or 4X) requires 1-3/8" Hole (Follow Hub manufacturer's instructions) 6 Conduit Mounting Hardware not supplied AC Right Inlet Wiring Method (Alternate - Requires Drilling for 1" Trade Size Conduit) 7 1" Meyers Hub (Type 4 or 4X) requires 1-3/8" Hole (Follow Hub manufacturer's instructions) Conduit Mounting Hardware not supplied **HVDC** Inverter (If customer has Inverter - Requires Drilling for %" Trade Size Conduit either Left or Right) %" Meyers Hub (Type 4 or 4X) requires 1-1/8" Hole (Follow Hub manufacturer's instructions) Conduit Mounting Hardware not supplied HVDC Inverter Inlet Left Wiring Method HVDC Inverter Inlet Right Wiring Method

# Supplied Equipment

Equipment	
1 – 80A Charger	
1 – Mounting Bracket	
Hardware Kit	
2 – 3/8" x 2-1/2" LG Flange Hex Head Lag Bolts	
6 - (T20) Torx-head Dog Point Screws - M4 x 0.7 x 16 mm (2 extra)	
1 – RS-485 Connector – 3 position (Communications)	
1 - RS-485 Connector - 2 position (Dark Start)	

# Equipment List – What's Needed

TOOLS	
Certified Electrician	
7/32" Drill Bit	
Stud Finder	
Level	
240 V AC Voltmeter	
5/32" Hex Head Bit or Allen Wrench	
9/16" Wrench or Socket Wrench	The second secon
Small Flat head-Screw Bit (For RS-485 Connectors)	
Torx Head (T20) Bit	
Torque Driver	
Step Drill Bit - (If needed for Conduit Connectors - 1-1/8	'- 1-3/8" holes)
ADDITIONAL ITEMS (Not	Included)
1- 1/4" Conduit Connector (see Installation Checklist If Nee	ded)
1-1" Conduit Connector (see Installation Checklist If Nee	ded)
3 AWG - 90°C Copper wire should be used	
NOTE: Wire must have a temperature rating of 90° C or h	igher for AC Connections (A/L1 and B/N)
80A charger requires a 100 A non-GFCI breaker.	
HVDC Wire - 8 AWG 90°C, 600V	- a211
Dark Start Wire - 18 AWG, 600V to comply with NEC300.	3©(1).
Communication Wire - 18 AWG, 600V to comply with NE	C300.3©(1).

# Open Charger - Prepare the Charger for Mounting

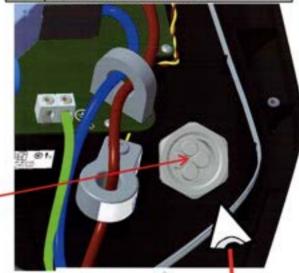
	OPEN CHARGER COVER
А	The unit can be left in box to protect from any scratches or debris. Using both hands, Place thumbs on inner Black Cover and fingers into Hand Pulls located on sides of unit to unsnap and remove the decorative cover and place aside. DO NOT PLACE COVER FACE DOWN ON ANY ABRASIVE SURFACES.
В	Remove the (9) T-20 Torx-Head Dog Point Screws – M4 x 0.7 x 16 mm. Retain Screws and Cover for Replace Cover Step.
с	NOTE: If AC Wiring method chosen is Standard Rear Entry. Pierce wire though Rear Plug prior to attaching Charger to Mounting Bracket.

Pierce wires through Plug if using AC Rear Entry

# QTY KIT ITEM 2 (T-20) Torx-head Dog Point Screws – M4 x 0.7 x 16 mm Extra screws if you lose one

#### **TOOLS NEEDED**

1 Torx-head (T20) Torx driver





Remove (9) screws to open Structural Cover

> Protect Cable and Coupler from scratches and debris

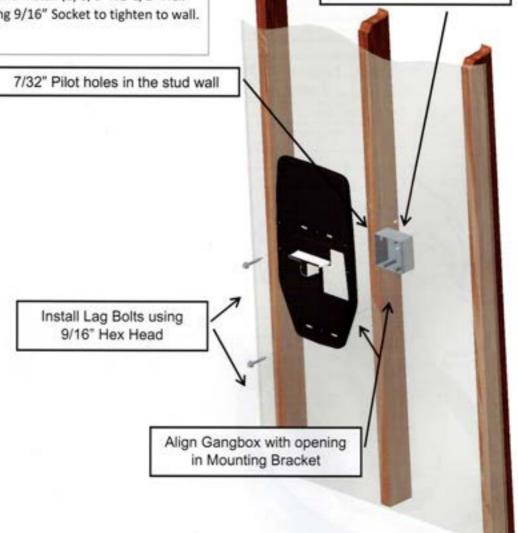
. REMOVE DECORATIVE COVER

#### Mount Bracket

	MOUNT BRACKET TO WALL
A	Locate Stud with Stud Finder
В	Verify Gang Box is installed on right side of stud.  Top Bracket hole should be between 35-60" from floor.  See page 2 dimensional graphic.  No Gang Box needed if AC Conduit Installation
С	Line up Mounting Bracket opening with Gang Box as shown, use Level to align Bracket and mark the two center mounting holes.
D	Use Drill with 7/32" bit to drill pilot into stud.
E	Align Bracket on wall and Install (2) 3/8" x 2-1/2" Hex Lag Bolts into wall using 9/16" Socket to tighten to wall (See Figure below).

QTY	KIT ITEM
1	MOUNTING BRACKET
2	3/8" X 2-1/2" HEX LAG BOLT
TOOL	S NEEDED
STUD	FINDER
LEVE	4
Drill v	vith 7/32" Pilot Bit
9/16	SOCKET

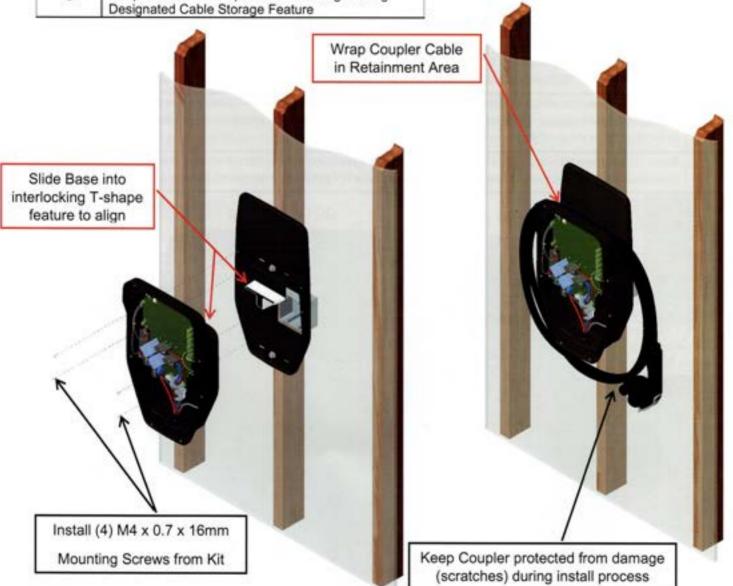
Gang Box right side stud mount (Standard Method)



	MOUNT CHARGER BASE TO WALL BRACKET
Α	Slide the base onto the interlocking T-feature and align unit with base. Set Coupler aside while mounting Charger base.
В	Using the (4)-M4 x 0.7 x 16mm Mounting Screws, attach the unit to the base securely. Torque to 10 in-lbs. (1.1 Nm)
С	Wrap Cable with Coupler around Charger using Designated Cable Storage Feature

# Mount Charger Base to Wall Bracket

QTY	KIT ITEM
4	Torx-head Screws - M4 x 0.7 x 16 mm
TOOL	S NEEDED
Torx	Head (T20) Driver Bit
Torqu	ue Driver



Mount Charger

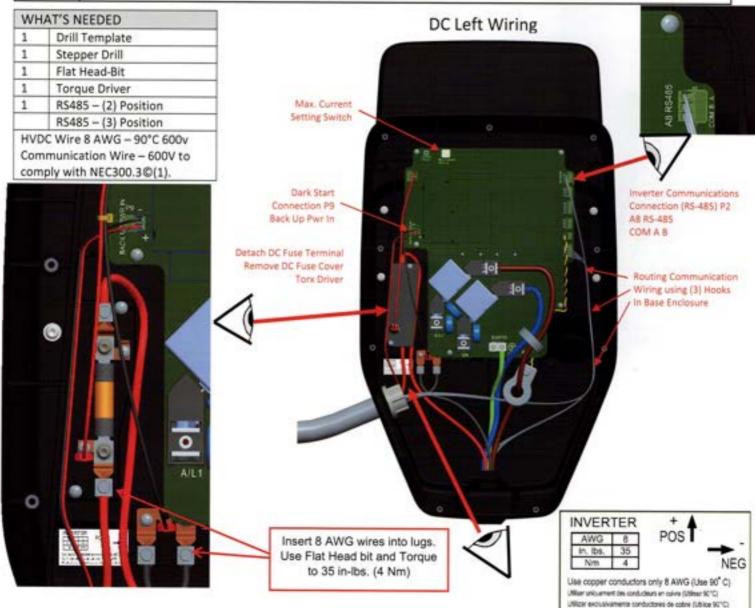
## HVDC Wiring - Left Entry



DANGER Hazardous voltage. Will cause death or serious injury. Turn off power before working on this equipment. This indicates a situation where the present voltage could cause injury or death. Extreme caution is required when servicing or installing the equipment referenced.

NOTE: Charger will need to be mounted on the bracket to hardwire the device. HVDC wiring first is preferred method.

VDC W	Harling and A. L. Allin, and A. L. Allin
Α	Use kit-supplied wire drilling template to align and use stepper drill to drill appropriate size hole for %" Conduit connector (Standard hole 1-1/8"). Clean all drill debris from unit. Install Conduit and Connector per manufacturer's installation instruction and route wires into enclosure.
В	HVDC – Detach spade terminal protruding from the DC Fuse Cover. Use Torx Driver to remove DC Fuse Cover. Route 8 AWG – 90°C 600V Copper wires through the conduit and connect Positive wire to Fuse and Negative wire to terminal as shown. Tighten connections to 35 in-lbs. (4 Nm) using a Flat Head Bit. Replace DC Fuse Cover.
С	Dark Start Connection wire – Wire positive and Negative 18 AWG wires to RS485 (2) position as shown in detail below. Route wire pair along the side of enclosure (Use Hooks in enclosure). Plug Connector into the "Back Up Pwr In at location P9 as shown. Tighten connections to 3 in-lbs. (.3 Nm)
D	Route (3) twisted wire along right side of enclosure (Use Hooks in enclosure). Attach wires to RS485 (3) position connector. Plug Connector to location P2 (A8 RS-485 COM A B) Tighten connections to 3 in-lbs. (.3 Nm)



## HVDC Wiring - Right Entry



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NOTE: Charger will need to be mounted on the bracket to hardwire the device. HVDC wiring first is preferred method.

HVDC V	Viring - Route HVDC over EVSE Cable and prior to AC wiring.
Α	Use kit-supplied wire drilling template to align and use stepper drill to drill appropriate size hole for %" Conduit connector (Standard hole 1-1/8"). Clean all drill debris from unit. Install Conduit and Connector per manufacturer's installation instruction and route wires into enclosure.
В	HVDC – Detach spade terminal protruding from the DC Fuse Cover. Use Torx Driver to remove DC Fuse Cover. Route 8 AWG – 90°C 600V Copper wires through the conduit and connect Positive wire to Fuse and Negative wire to terminal as shown. Tighten connections to 35 in-lbs. (4 Nm) using a Flat Head Bit. Replace DC Fuse Cover.
с	Dark Start Connection wire – Wire positive and Negative 18 AWG wires to RS485 (2) position as shown in detail below. Route wire pair along the side of enclosure (Use Hooks in enclosure). Plug Connector into the "Back Up Pwr In' at location P9 as shown. Tighten connections to 3 in-lbs. (.3 Nm)
D	Route (3) twisted wire along right side of enclosure (Use Hooks in enclosure). Attach wires to RS485 (3) position



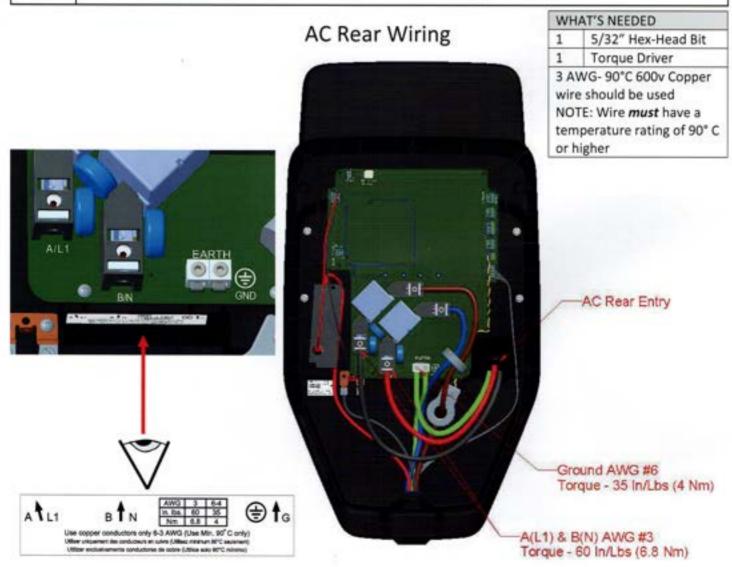
## Standard Wiring - Residential Installation - Rear Entry



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NOTE: Charger will need to be mounted on the bracket to hardwire the device.

AC W	/iring Route AC wiring over HVDC and EVSE Cable.
Α	The kit-supplied wire drilling template is not necessary; no holes will be drilled for rear entry wiring. Pierce wires through supplied rear plug in ensure watertight seal.
В	HVAC – Route 3 AWG – 90°C 600V Copper wire through the back of the charger and connect per the rear- wiring diagram. Tighten connections to 60 in-lbs. (6.8 Nm) using a 5/32" Hex Head Bit. Black: A(L1) – 120VAC to Ground Red: B(N) – 120VAC to Ground
С	HVAC – Ground wire – Route 6 AWG or larger 90°C 600V Copper connect the ground per the rear-entry diagram. Tighten connection to 35 in-lbs. (4 Nm) using a 5/32" Hex-Head Bit.
D	Turn on power and using a 240 V AC Voltmeter, measure the voltage.



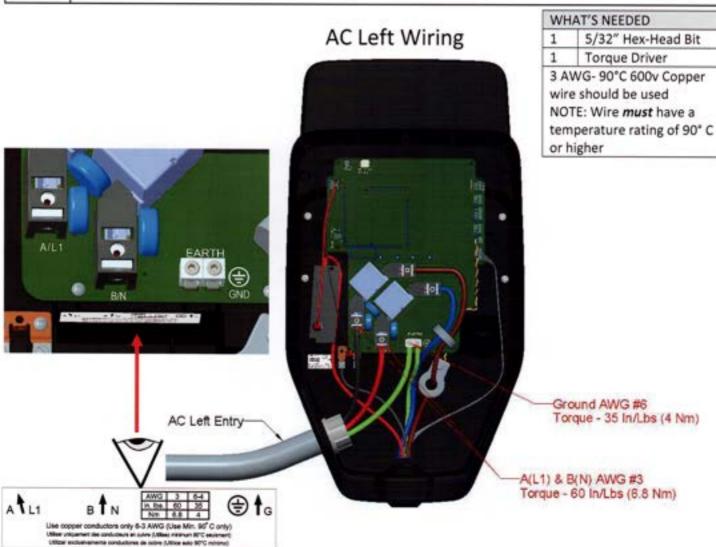
## Alternate Wiring - Residential Installation - Left Entry



DANGER Hazardous voltage. Will cause death or serious injury. Turn off power before working on this equipment. This indicates a situation where the present voltage could cause injury or death. Extreme caution is required when servicing or installing the equipment referenced.

NOTE: Charger will need to be mounted on the bracket to hardwire the device.

Α	Use kit-supplied wire drilling template to align and use stepper drill to drill appropriate size hole for 1" Conduit Hub (Standard hole 1-3/8"). Clean all drill debris from unit. Install Conduit and Connector per manufacturer's installation instruction and route wires into enclosure.
В	HVAC – Route 3 AWG – 90°C 600V Copper wire through the back of the charger and connect per the rear- wiring diagram. Tighten connections to 60 in-lbs. (6.8 Nm) using a 5/32" Hex Head Bit. Black: A(L1) – 120VAC to Ground Red: B(N) – 120VAC to Ground
С	HVAC – Ground wire – Route 6 AWG or larger 90°C 600V Copper connect the ground per the rear-entry diagram. Tighten connection to 35 in-lbs. (4 Nm) using a 5/32" Hex-Head Bit.
D	Turn on power and using a 240 V AC Voltmeter, measure the voltage.



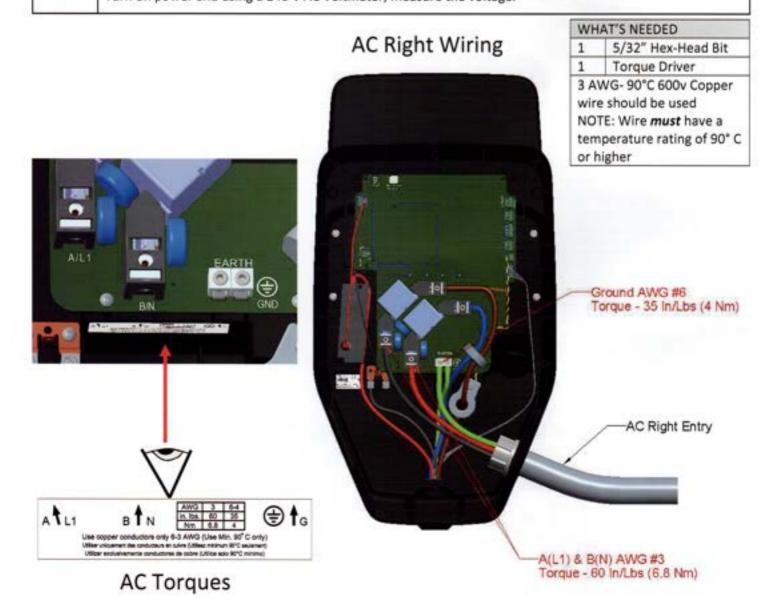
## Alternate Wiring - Residential Installation - Right Entry



DANGER Hazardous voltage. Will cause death or serious injury. Turn off power before working on this equipment. This indicates a situation where the present voltage could cause injury or death. Extreme caution is required when servicing or installing the equipment referenced.

NOTE: Charger will need to be mounted on the bracket to hardwire the device.

VAC W	firing Route AC wiring over HVDC and EVSE Cable.
Α	Use kit-supplied wire drilling template to align and use stepper drill to drill appropriate size hole for 1" Conduit Hub (Standard hole 1-3/8"). Clean all drill debris from unit. Install Conduit and Connector per manufacturer's installation instruction and route wires into enclosure.
В	HVAC – Route 3 AWG – 90°C 600V Copper wire through the back of the charger and connect per the rear- wiring diagram. Tighten connections to 60 in-lbs. (6.8 Nm) using a 5/32" Hex Head Bit. Black: A(L1) – 120VAC to Ground Red: B(N) – 120VAC to Ground
С	HVAC – Ground wire – Route 6 AWG or larger 90°C 600V Copper connect the ground per the rear-entry diagram. Tighten connection to 35 in-lbs. (4 Nm) using a 5/32" Hex-Head Bit.
D	Turn on power and using a 240 V AC Voltmeter, measure the voltage.



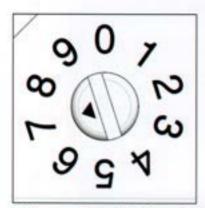


DANGER Hazardous voltage. Will cause death or serious injury. Turn off power before working on this equipment. This indicates a situation where the present voltage could cause injury or death. Extreme caution is required when servicing or installing the equipment referenced.

NOTE: The Maximum Current Setting Switch is factory set to (Position 7 – 80A) and verify the required setting based on the branch circuit protection according to NEC Code.

A

Amperage can be reduced by turning the dial to the switch positions as noted in the table below.



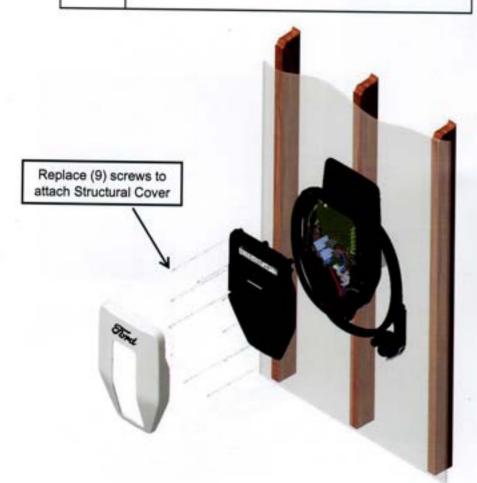
Maximum Current Setting Switch

SWITCH POSITION	AMPS	
0	12	
1	16	
2	24	
3	32	
4	40	
5	48	
6	64	
7	80	
8	n/a	
9	n/a	

# Close the Charger

/师	DANGER Hazardous voltage. Will cause death or serious injury. Turn off power before working on this equipment. This indicates a situation where the present voltage could cause injury or death. Extreme caution is required when servicing or installing the equipment referenced.
A	Verify Gasket has not dislodged from Cover groove. Replace the structural cover on the unit and attach using (9) M4 x 0.7 x 16 mm screws retained when removed earlier. Torque to 10 in-lbs. (1.1 Nm) using Torx Head (T20) Bit. Torque in order shown (left) for proper sealing of Cover.
В	Carefully Align the decorative cover with the Structural Cover and firmly press the decorative cover in place ensuring that all snaps are fully seated
с	Download "Ford Charge Station Pro App" and "Ford Pass"

QTY	WHAT'S NEEDED
9	Torx-head Screws – M4 x 0.7 x 16 mm Retained from earlier step.
1 Decorative Cover	
TOOL	S NEEDED
1 Torx-Head (T20) Bit	
1	Torque Driver





#### Operating Instructions

#### Safety Instructions During the Charging Process



**DANGER** Risk of electric shock and fire. Touching live parts may cause electric shock or even death. Defective connectors or cables may cause fire.

- Do not kink or squeeze the charging cable. Do not draw the charging cable over sharp edges or hot surfaces
- Do not use the charging station if damage or tampering is visible. If damage is visible, Inform the operator. Until damage is repaired, keep away from the charging station and do not attempt to charge an EV.
- Grip the power plug/connector to disconnect from the charging unit. Do not remove the connector by pulling on the cable.
- Never touch the power plug/connector with wet hands.
- · Do not connect or disconnect any cables during a thunderstorm.
- The Charge Station is equipped with an auto-reset feature. If this Charge Station is connected to a vehicle at
  the time that power is restored following an outage, charging may resume automatically. If this Charge Station
  is connected to a vehicle and a ground fault trip occurs, charging may resume automatically after a delay period.

#### Risk of Overheating and Fire

Unauthorized accessories should not be used with this device due to risk of fire and/or overheating.

- DO NOT use a charging cable that is not approved for the vehicle.
- · DO NOT use an extension to connect the charging station to the vehicle
- DO NOT use an adapter or adapter cable.

#### **Basic Charging Procedure**

- Using the charger connector, gently insert the connector into the EV. Be sure not to force the connection or bend any pins in the connector.
- Observe blue LED on the front of the device.
  - Dim blue- Device not connected/Standby
  - Bright blue- Device ready to deliver energy
  - Pulsing blue- Device delivering energy to the vehicle

#### Intelligent Backup Power

For operating instructions regarding this feature, please refer to your vehicle manual

	Status	Explanation
	Off	The station is not grid powered
	Dim blue	The station is grid powered
	Bright blue	The station is grid powered, plugged in and ready to charge
	Pulsing blue	The station is plugged and and charging
1	Dim green	The station is powered by battery backup and not plugged in
	Bright green	The station is powered by battery backup, plugged in and ready to discharge
	Pulse green	The station is powered by battery backup, plugged in and discharging
12 //	Pulse Green/Pulse Blue	The station is powered and locked. Station will not charge or discharge
	Solid red	The station has experienced a non-recoverable fault
	Solid amber	The station has a fault and trouble shooting is required
	Pulse Red	The station has experienced a ground fault
	Solid Amber/Pulse Blue	The station is charging at a reduced rate

#### Maintenance

While there is no maintenance for the internal works of the unit, the exterior does require some basic, common sense maintenance. The following maintenance can be performed by the owner/user. All other service must be conducted by qualified personnel. If there is any damage to the charger, contact your supplier. General exterior maintenance is recommended to be performed every six months depending on the environment. In harsh environments, maintenance should be performed more often.

#### General exterior maintenance

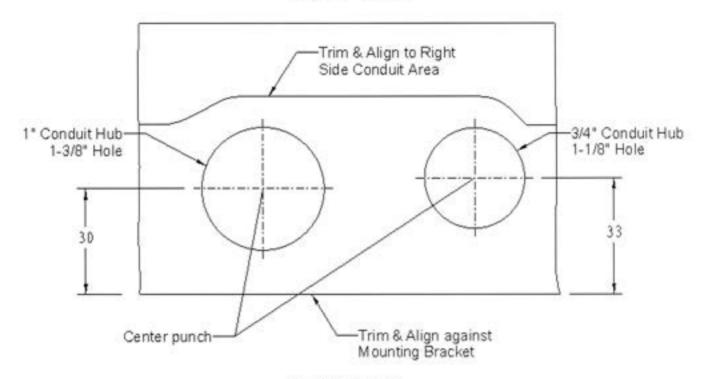
Regular cleaning is recommended to avoid accumulation of debris/dust/dirt on or around the unit. Wipe surfaces with a soft cloth dampened with water, or for harder to removed marks, use an alcohol based cleaner. Do not spray with high-pressure cleaning devices or use abrasive chemicals. Check for cuts, cracks, damage, and debris. If debris is present, remove it. If you find damage, contact your supplier. Check for damage and corrosion. If present, contact your supplier. Check the HMI for damage/signs of faded color that is clearly visible. Ensure there is no debris or damage inside or around the cable, cable holder and connector/plug. If present, remove debris and/or notify the supplier of any damage. Check the connector/plug pins for any signs of corrosion and contact the supplier, if there is any damage to the pins. Check for Snow/Ice buildup around the unit and clear the area around the unit. This should be checked daily in areas with high snowfall.

#### Wi-Fi Password

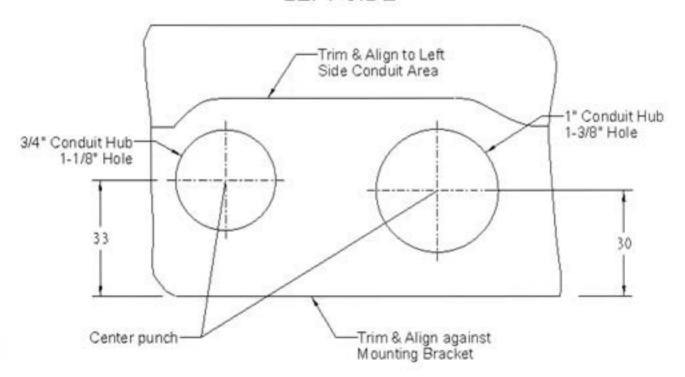


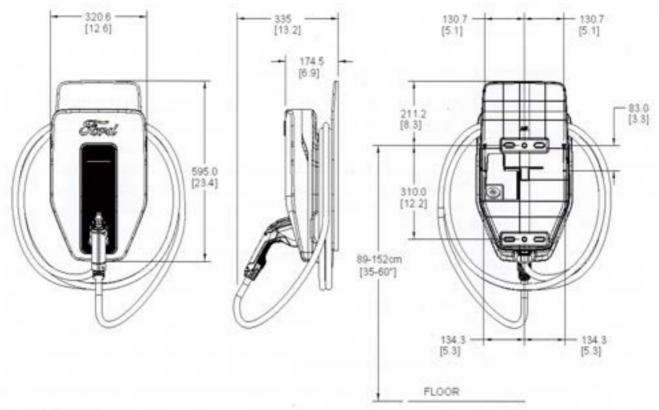
# Appendix A - Conduit Drilling Template (Compatible with suggested gland/conduit configurations)

## RIGHT SIDE



# LEFT SIDE





#### Legal Manufacturer

Siemens Industry, Inc. 3617 Parkway Ln Peachtree Corners, GA 30092 United States of America

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This document contains a general description of available technical options only, and its effectiveness will be subject to specific variables including field conditions and project parameters. Siemens does not make representations, warranties, or assurances as to the accuracy or completeness of the content contained herein. Siemens reserves the right to modify the technology and product specifications in its sole discretion without advance notice.

# Ford Charge Station Pro – Technical data

Features and Functions		
Charging Mode	Level 2	
Vehicle Connection	J1772 CCS Combo 1 plug with 25 ft cable, 80 A / integrated cable management	
AC Power Output	Up to 19.2 kW (240VAC@80A) - Requires a 100A breaker	
Mounting Options	Wall	
Communication		
Interfaces	Wi-Fi, Bluetooth	
Configuration	via Charge Station Pro Configuration App	
Software Upgrade	over the air (OTA)	
Electrical Design		
Power Supply Voltage	208V/240V AC, 60Hz	
Rated Current Settings [A]	12, 16, 32, 40, 48, 64, 80	
Wire Cross Section	3 AWG, Min. 90°C Rated	
Network Type	Phase shift / Split phase	
Ground Fault Protection	20 mA	
Over Current Protection	+10% above configured threshold	
General Design		
Environmental Rating	UL Type 4	
Dimensions (HxWxD)	23.8 in. x 12.7 in. x 7 in.	
Boxed Weight	24 lbs	
Ambient Conditions	-40°C to +45°C Operational, -40°C to +85°C Storage	
Certificates		
UL Listed	according to UL 9741, UL 991, UL 1998, UL 2231, file no. E522055	

