

ICS-200B INSTALLATION GUIDE

Before You Begin

Read these instructions completely, including the Safety Instructions.

Note to Installer

Be sure to leave these instructions with the user.

Note to User

Keep these instructions for further reference.

SAFETY INSTRUCTIONS

The ICS-200B Charge Station is designed with the safety concerns of the consumer as an utmost priority; however, the following safety precautions must be read and followed:

- The EVSE (Electric Vehicle Service Equipment) should be installed by a qualified electrician in accordance with local electrical codes and ordinances.
- Grounding Instructions - The charge station should be connected to a grounded, metal, permanent wiring system; or an equipment-grounding conductor should be run with circuit conductors and connected to a grounding terminal or lead on the charger. Connections to the charge station should comply with all local codes and ordinances.
- Call your local service provider anytime a procedural question arises; DO NOT attempt to perform a procedure you are unsure of.
- Read all installation instructions carefully before performing the installation



Warning *This symbol means danger.* You are in a situation that could cause bodily injury. Before you work on any electrical equipment, be aware of the hazards involved with electrical circuitry and standard practices for preventing accidents.

INSTALLATION REQUIREMENTS

Inventory

- Either Wall or Pedestal Mount ICS-200B Charge Station
- ICS-200 User's Guide
- ICS-200B Installation Guide

Special Tools and Requirements

- A manufacturer-approved pedestal for pedestal-mount charge station.
- SAE wrench set or equivalent, Phillips head screwdriver, T-15 pin-in-head & T-27 Torx wrenches.
- Each charge station requires a dedicated 208 or 240 VAC, 50/60 HZ, single-phase, 40 amp circuit (60 amp optional).
- Wire the EVSE to the breaker panel using wire sized according to local electrical codes.
- The electrical junction box for a wall mounted charging station should be installed approximately 42 inches above ground level.
- The pedestal mounted charging station should have the pedestal mounted in place according to the siting instructions.
- The charging station should be located to allow the 20 foot (6.1 meter) charging cable to reach the vehicle's charging port.

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SITE AND WIRING REQUIREMENTS

Concrete Pad Requirements

- Use four 5/8" or 1/2" anchor bolts in a 10" square pattern or four 3/8" anchor bolts in a 10" x 6" pattern (same as Delco).
- Anchor bolts should protrude not more than 3" above pad.
- Concrete pad should be at least 18" x 18" x 12" deep.

Wall Mounting Requirements

- Refer to the illustration for wall mounting dimensions.

Pedestal Wiring Harness, Single Unit

- One - 40 amp branch circuit (60 amp optional).
- 2 - #8 Hot leads (1 RED*, 1 BLK*)
- 1 - #8 Neutral (NEUT)
- 1 - #8 Ground (GND)

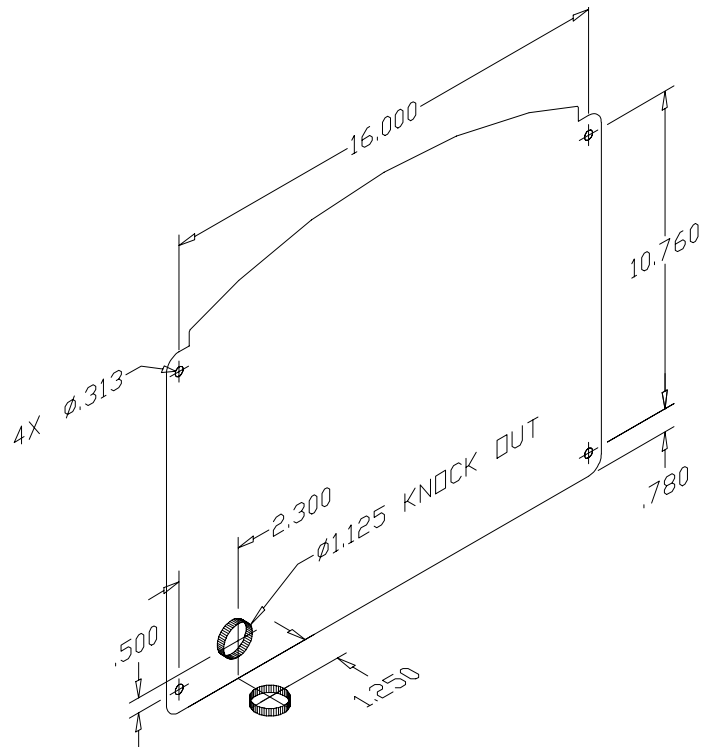
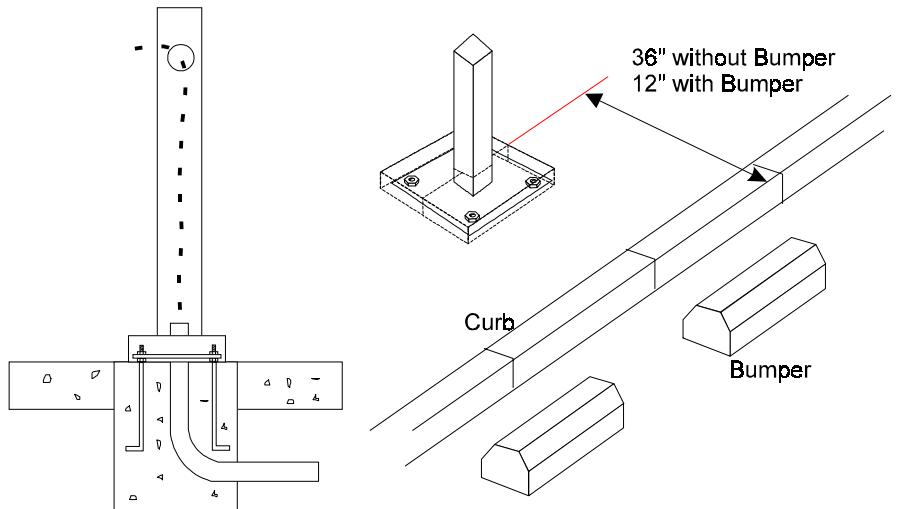
Pedestal Wiring Harness, Double Unit

- Two - 40 amp branch circuit (60 amp optional).
- 4 - #8 Hots (2 RED*, 2 BLK*)
- 2 - #8 Neutral (NEUT)
- 1 - #8 Ground (GND)

(* Each circuit is 120 volts to GND.)

General Wiring Requirements

- 1" or larger conduit required for single charge stations.
- 1 1/4" or larger conduit required for dual charge stations.
- Wire terminates in ICS-200B enclosure.
- Refer to the illustration for location of knock-outs in the junction box.
- Electrician will connect to contactor and terminal block connections inside ICS-200B enclosure.
- Comply with local and NEC codes.

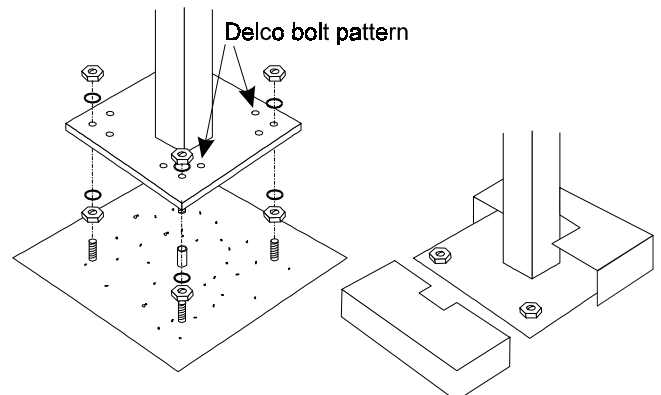


INSTALLING THE PEDESTAL BASE

1. Install four nuts and washers on the base lugs and adjust to level the pedestal.
2. Mount pedestal and secure with four nuts and washers.
3. Run the power conductors up the pedestal and out the access hole.

Note Power conductors must reach at least 48 inches above ground-level to reach the ICS-200B.

4. Install the pedestal base cover.



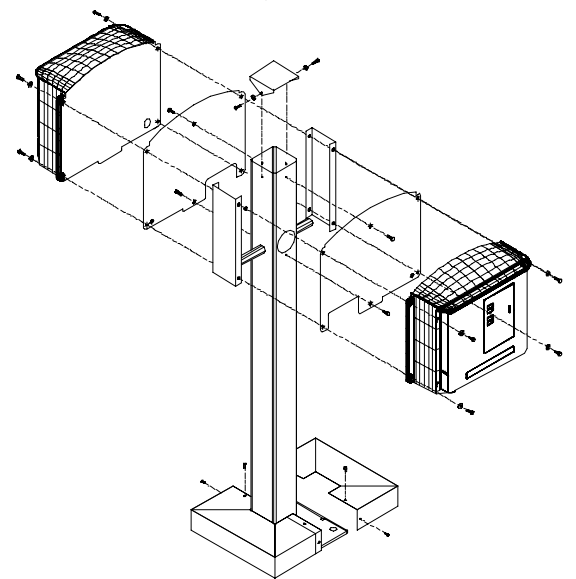
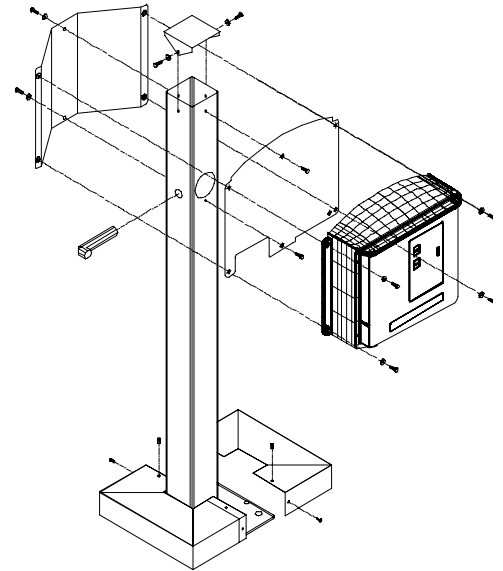
PEDESTAL MOUNTING

Single ICS-200B Pedestal Mounting

1. Connect the flexible power conduit to the side of the pedestal and run the power leads out through the conduit.
2. Attach the ICS-200B mounting plate and back cover plate to the pedestal using 1/4-20 flat-head screws.
3. Install the pedestal cap using flat-head Phillips screws.
4. Mount the ICS-200B to the mounting plate and back cover using four (4) 1/4-20 Torx screws with nuts and washers.
5. Remove two screws from the front door of the ICS-200B enclosure and open the door.
6. Push the power leads through the hole in the back of the charge station then connect the flexible power conduit to the hole.

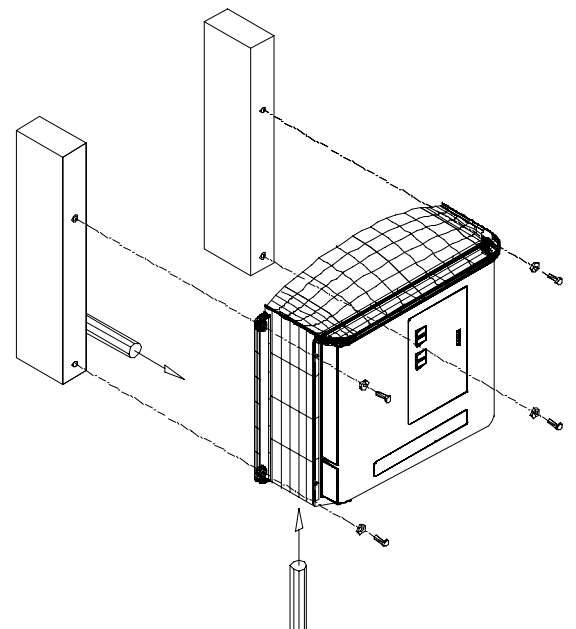
Double ICS-200B Pedestal Mounting

1. Connect a flexible power conduit to both sides of the pedestal and run the power leads out through the conduits.
2. Attach two ICS-200B mounting plates to the pedestal using 1/4-20 flat-head screws.
3. Install the pedestal cap using flat-head Phillips screws.
4. Temporarily mount both the side covers to one of the mounting plates. Use one screw for each mounting plate to hold it in place.
5. Mount the first ICS-200B to the other mounting plate using four (4) 1/4-20 Torx screws with nuts and washers.
6. Remove the two temporary screws used to hold the side covers in place then mount the second ICS-200 using four (4) 1/4-20 Torx screws with nuts and washers.
7. Remove two screws from the front doors of the two ICS-200B enclosures and open the doors.
8. Push the power leads through the hole in the back of the charge stations then connect the flexible power conduit to each hole.



WALL MOUNTING

1. Locate the wall mounting position of the EVSE:
 - Position the bottom of the charge station 38 inches above the ground.
 - The mounting holes are spaced 16" apart to accommodate wall studs.
 - If you do not have solid structural framing on those centers, you must provide an adequate alternative mounting surface for the EVSE.
2. Attach the charge station to the wall studs using four (4) 1/4 x 2 1/2 inch lag screws.
3. Use a multi-set or equivalent for mounting on concrete walls.
4. Connect the power conduit to either the opening in the bottom of the enclosure or the opening in the back of the enclosure.
5. Run the power leads into the enclosure.

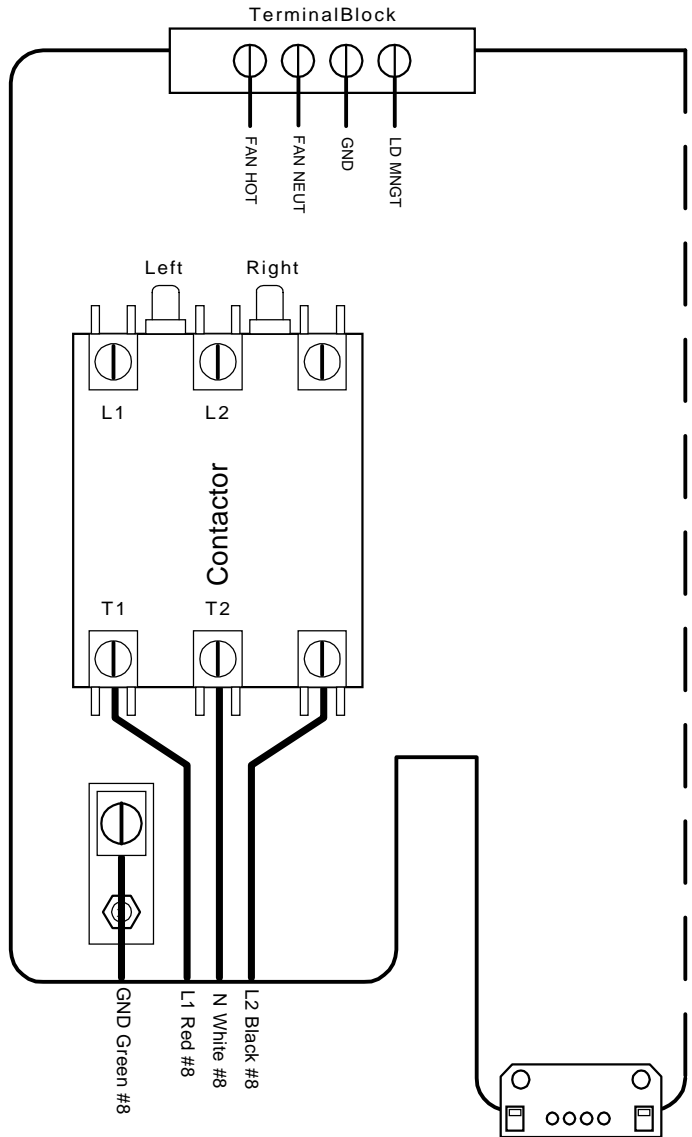


WIRING



Warning Turn OFF the EVSE circuit breaker at the service or distribution panel before attempting to perform the following steps.

1. Connect one hot lead to L1.
2. Connect one hot lead to L3.
3. Tie N to L2.
4. Connect GND lead to GND terminal block.
5. Test L1 and L3 input voltage:
 - Turn ON power at the service or dist. panel.
 - Hot leads must measure no more than 132 volts to GND.
 - Turn OFF power at the service or dist. panel.
6. If required, connect power for an exhaust fan to the terminal block located above the power lead connections. The following fan connections are provided:
 - Fan Hot Lead
 - Fan Neutral
 - Ground
 - Load Management Input



FINISHING THE INSTALLATION

1. With the wiring finished, close and fasten the ICS-200B front cover using two screws with washers.
2. The EVSE can now be powered up by turning the main circuit breaker ON.
3. Refer to ICS-200 User's Guide for further information.

