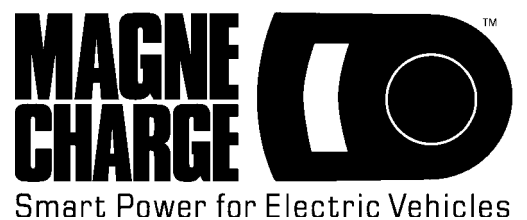




# WM7200 Inductive Charger Installation Manual



Before beginning the installation process, please read this installation manual completely, including the important safety instructions.

# Important Safety Instructions

**SAVE THESE INSTRUCTIONS** - This installation manual contains important instructions that should be followed during the installation of Magne Charge™ Inductive Charger Model WM7200. **Carefully read these instructions before installing this charger.**

The following symbols may be found in this manual or on labels affixed to this charger.



This symbol warns you of the presence of dangerous voltages and a high risk of electrical shock. To help avoid death or serious injury, follow these instructions.



This symbol warns you of other risks of injury. To help avoid serious injury, follow these instructions.

**NOTICE:** This symbol alerts you to other important installation instructions. Follow these instructions to help avoid damage to the charger and to help assure proper operation.

**Note to Installer:** Make certain you leave these instructions with the owner of this unit.  
**Note to Owner:** Keep these instructions for your Magne Charge™ Sales and Service Representative to reference in the future.

The Inductive Charger Model WM7200 should only be installed by an authorized electrician in accordance with all local electrical codes and ordinances and the instructions contained in this installation manual. Before beginning the installation process, please read this installation manual completely, including the important safety instructions.



Disconnect the power to the charger branch circuit at the service panel and verify that high voltage is not present on utility wiring prior to installation.



anger

**GROUNDING INSTRUCTIONS** - This charger must be connected to a permanently grounded wiring system. An equipment-grounding conductor should be run with circuit conductors and connected to the equipment-grounding lead on the battery charger. Connections to the battery charger should comply with all local codes and ordinances.

**NOTICE:** Do not install the charger in a location that exposes it to extreme heat.

**NOTICE:** Do not install the charger in a location that blocks the air intake or exhaust vents (bottom side). Allow 46 cm (18 inches) of clearance directly underneath the unit to allow for proper cooling.

# Required Installation Tools and Materials

**Tools:**

- Common Hand Tools
- 10 - 100 lb-in Torque Wrench (Hex insert)
- WM7200 Installation Kit P/N 27005410 (Available to authorized installers only)

**Required Installation Material:**

- Wall Mount Installation:
- Wall Mount Kit P/N 09351739
  - Six #12 x 2 ½ inch wood screws, zinc plated
  - Four Wire Nuts (8-10 AWG), UL listed waterproof connector

- Floor Mount Installation:
- Floor Mount Kit P/N 09351749

**Replacement Hardware:**



Do not replace any of the fasteners (screws) on the charger with alternate parts. Doing so may result in the loss of the warranty.

If replacement parts are needed, please contact your Magne Charge™ Sales and Service Representative for assistance.

# Inventory

- Inductive Charger Model WM7200 SCM Owner’s Manual
- Inductive Charger Model WM7200 SCM Installation Manual
- Warranty / Registration Card
- Inductive Charger Model WM7200

# Site Preparation

The following guidelines are presented for site preparation:

**Input Power Specifications**

Voltage	208 - 240 Vac, 60 Hz
Service Requirement	40 Amp Service

**Dimensions**

Height	655 mm (26 in)
Width	403 mm (16 in)
Depth	311 mm (12 in)
Cable Length	2.9 m (9 ft 7 in)
Weight	25 kg (55 lbs)

**Mounting Base Specifications (Only Applies to Floor Mount Installations)**

Mounting Stud Size	10 mm (3/8 in)
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**NOTICE:** Mounting surface must be flat. Stud height must be 2.5 to 3.2 cm (1 to 1 1/4 in) above the mounting surface.

**UL Stability Test Requirements (Only Applies to Floor Mount Installations)**

Underwriters Laboratories (UL) requires that the stationary power unit shall not overturn and shall return to its intended at-rest position on a level surface when it is subjected to an external applied horizontal force of 20% (11 lbs) weight of the power unit.

The force is to be applied in a horizontal direction at a point on the floor standing unit most likely to overturn it, but is not to be applied more than 5 ft above the floor level.

The use of a mounting system that does not meet or exceed the above requirements may result in the loss of the warranty.

# Installation Requirements

Be certain you read all installation requirements and instructions before performing this installation.

1. This charger requires a dedicated branch circuit rated at 208 - 240 Vac (single phase) with a minimum circuit capacity of 40 Amps and over-current protection of 40 Amps.

**NOTICE:** Do not install a Ground Fault Circuit Interrupter (GFCI) in the branch circuit. This charger contains a built-in ground fault protection device that may cause nuisance tripping of commercially available GFCIs.

2. Do not cut the charger's conduit or input wiring. For Wall Mount Installations, position the power junction box such that the conduit and input wiring can be connected without being cut. For Floor Mount Installations, attach the power junction box to the pedestal as described in the Floor Mount Installation section without cutting the conduit or input wiring.
3. This charger must be mounted at least 46 cm (18 in) above the floor. Additionally, the area beneath the charger and the louvers on the back side of the pedestal (if applicable) must remain unobstructed for proper air flow.
4. To meet the requirements for handicap access to this charger (where required), the distance between the center of the coupler paddle and the charging surface should not exceed 122 cm (48 in).
5. This charger must be mounted in a location that allows an unobstructed clearance of at least 66 cm (26 in) directly above the unit to allow for service access.
6. The charger must be mounted within access of the electric vehicle's charge port. As illustrated in figure 11, the maximum distance from the front of the charger to the charge port is 292 cm (9 ft 7 in).

**NOTICE:** The pedestal that is supplied with the Floor Mount Installation Kit must be used for all floor mount installations. The use of any other pedestal may result in a reduction of the charger's performance and/or a loss of the warranty.

# Wall Mount Installation

## Inspection (Refer to figures 1 & 2)

1. Remove the charger from its shipping container. Note that the shipping container and packaging material are re-useable. Do not destroy. Save these items, or return them to your distributor.
2. Make certain the coupler paddle is in its holster.
3. Familiarize yourself with the Magne Charge™ charger.
  - Note the location of the two top mounting holes.
  - Note the location of the four bottom mounting holes.
  - Note the color of the four electrical wires; two black, one green, and one white.
    - The two black 10 AWG wires are for input power
    - The green 10 AWG wire is for chassis / equipment ground.
    - The white 12 AWG wire is for the neutral connection.

## Bracket Installation (Refer to figures 1, 3, & 4)

4. Use the bottom mounting bracket to mark the location for the mounting screws. Verify that the bottom mounting bracket is level and (if required) is at least 46 cm (18 in) above the charging surface.
5. Drill pilot holes into the center of each stud where the screws will be installed.
6. Fasten the bottom mounting bracket to the wall using four #12 zinc-plated wood screws.
7. Using the #30 tamper-resistant bit and hex driver, remove the two screws on the back of the charger.
8. Note that there are two different size holes on the top mounting bracket. The side with the smaller sized holes must be placed against the housing. Align the two center holes on the top mounting bracket with those on the housing.
9. Using the same two screws, attach the top mounting bracket to the housing.

## Charger Installation (Refer to figures 2 & 3)



Turn off the circuit breaker at the service or distribution panel supplying electricity to the charger and verify that high voltage is not present before performing the following steps.

10. Lift the charger onto the bottom mounting bracket.
11. Fasten but do not completely tighten the top mounting bracket to the wall using two #12 zinc-plated wood screws.
12. Align the four holes on the bottom mounting bracket with those on the charger.
13. Fasten the charger to the bottom mounting bracket using four #30 tamper-resistant screws.  
Torque to 40 lbs-in.
14. Tighten the two top mounting bracket screws.

15. Connect the flexible non-metallic conduit to the charger power source (e.g. junction box). Do not cut conduit or input wiring.
16. Connect the wires using UL listed waterproof wire nuts in the following manner (Note that the supply-side wire may be a different gauge wire):

Input power	208 - 240 Vac, Single phase
Line 1 (HOT)	Black Wire
Line 2 (HOT)	Black Wire
Ground	Green Wire
Neutral	White Wire



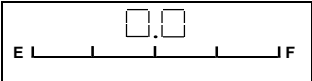
The neutral wire must be connected to the supply-side neutral wire in order for the charger to function properly.

17. Reinstall the junction box cover.

### System Test (Refer to figures 1 & 2)

18. Turn on the circuit breaker located in the service panel.
19. Perform the Charging Circuit Interrupting Device (CCID) test. Refer to the owner’s manual for test procedure.

20. Remove the coupler paddle from holster. Verify the charger displays

momentarily, then . Note that if the display does not illuminate, verify that the circuit breaker or CCID has not tripped. Also check the input voltage and all wiring connected to the charger.

21. Return the coupler paddle to its holster. Verify that the display goes blank.
22. The charger is now ready for use.

### Site Clean Up

23. Recover all packing materials for return to the distributor.
24. Pick up all debris around the work area and sweep clean.
25. Present the owner’s manual and installation manual to the owner of the charger.

# Wall Mount Figures

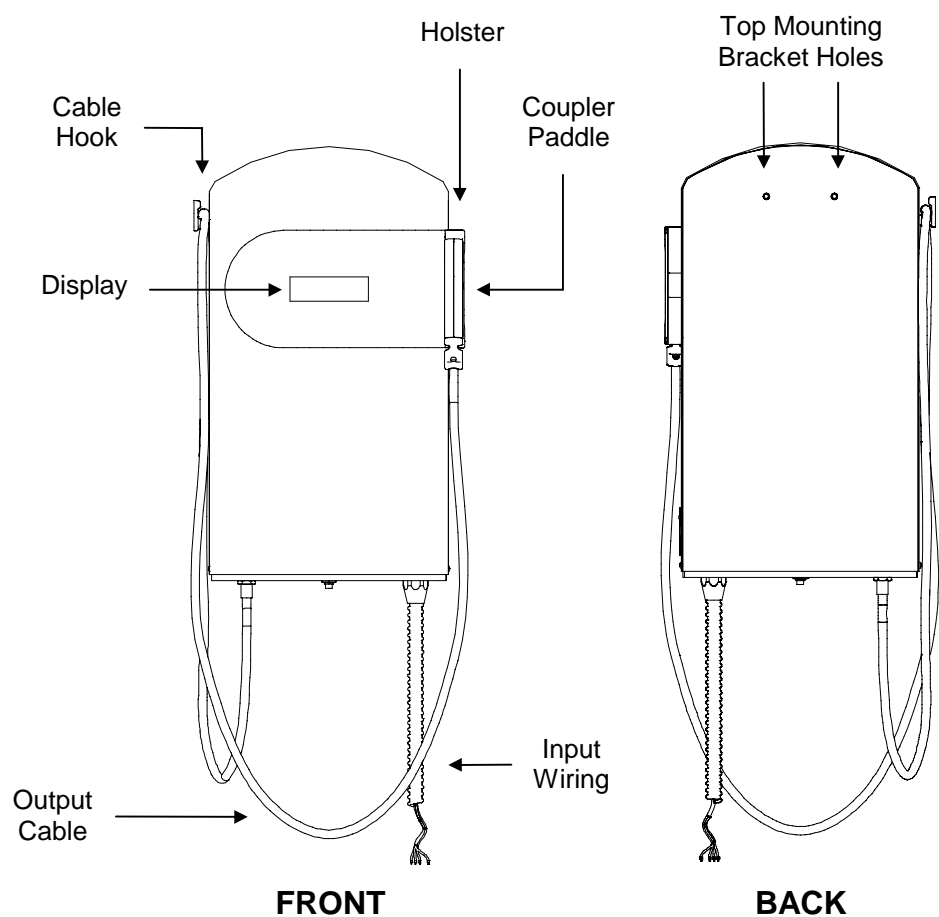


FIGURE 1 - FRONT & BACK VIEWS

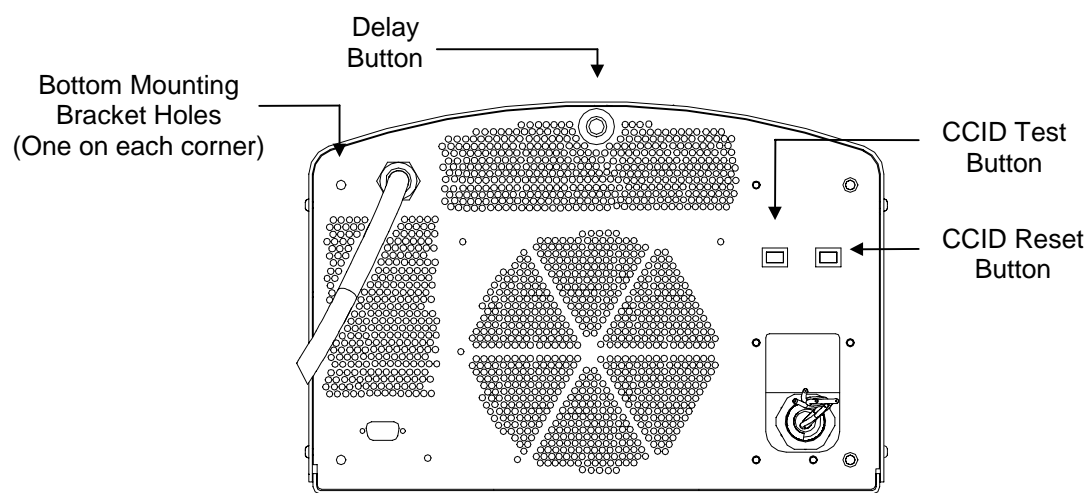
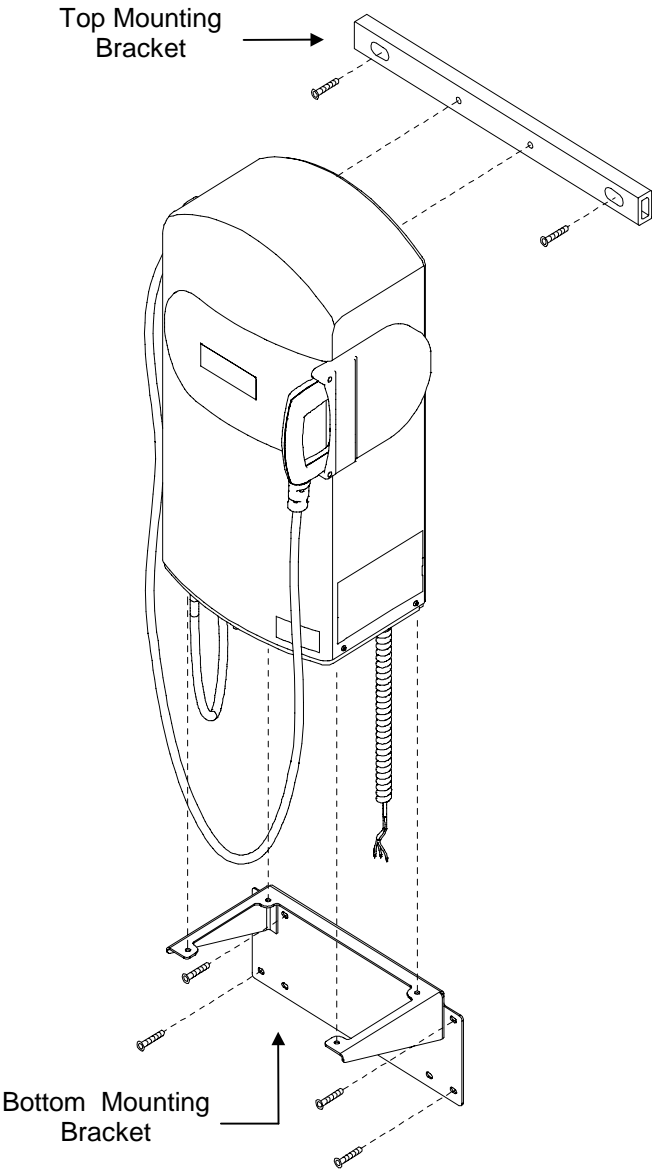
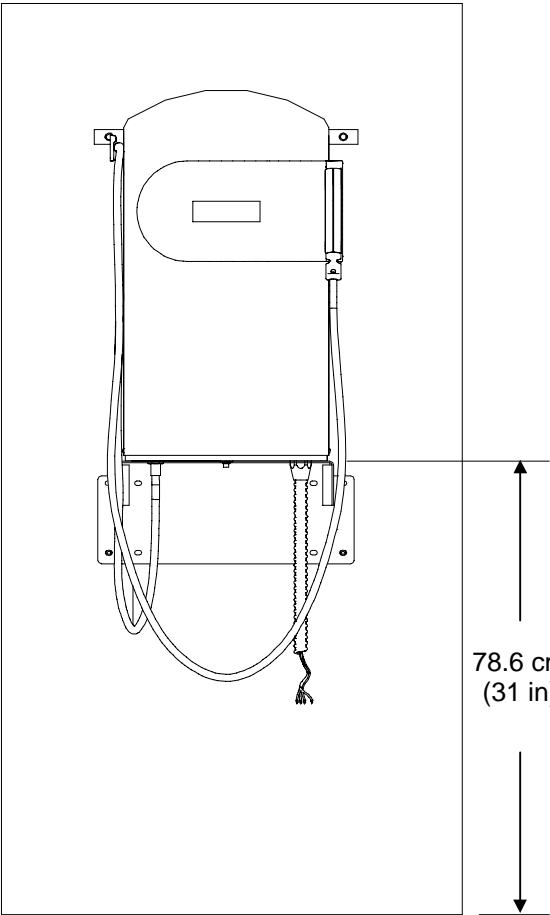


FIGURE 2 - BOTTOM OF CHARGER





**FIGURE 3 - BRACKET INSTALLATION**



**FIGURE 4 - MOUNTING HEIGHT**

# Floor Mount Installation

## Inspection (Refer to figures 5 & 6)

1. Remove the charger from its shipping container. Note that the shipping container and packaging material are re-useable. Do not destroy. Save these items, or return them to your distributor.
2. Make certain the coupler paddle is in its holster.
3. Familiarize yourself with the Magne Charge™ charger.
  - Note the location of the four bottom mounting holes.
  - Note the color of the four electrical wires; two black, one green, and one white.
    - The two black 10 AWG wires are for input power.
    - The green 10 AWG wire is for chassis / equipment ground.
    - The white 12 AWG wire is for the neutral connection.

## Pedestal Installation (Refer to figures 7, 8, & 9)

4. Prepare site per local building codes, UL Stability requirements, handicap access height (if required), and pedestal mounting hole dimensions.
5. Align the pedestal mounting holes with the mounting studs located on the mounting base.
6. Fasten the pedestal to the mounting base. Torque to 80 lbs-in.

## Charger Installation (Refer to figures 6, 7, & 10)



Turn off the circuit breaker at the service or distribution panel supplying electricity to the charger and verify that high voltage is not present before performing the following steps.

7. Place the charger on top of the pedestal.
8. Align the four holes on the pedestal with those on the base of the charger.
9. Fasten the charger to the pedestal using four #30 tamper-resistant screws. Torque to 40 lbs-in.
10. If attached, remove the access panel from the front of the pedestal.
11. Attach the conduit fitting to the flexible non-metallic conduit. Do not cut conduit or input wiring.
12. Prior to the installation of the plastic junction box, adjust the height of the junction box lid screws by performing the following steps:
  - a) Install the plastic junction box lid.
  - b) Tighten both screws on the plastic junction box down so that the lid can slide on and off with minimal play.
  - c) Remove plastic junction box lid.
13. Insert the conduit fitting through the hole located on the right side of the pedestal.
14. Attach the plastic junction box to the pedestal by inserting the conduit fitting through one of the knock-outs. Secure junction box by tightening the conduit fitting nut.

15. Connect the wires using UL listed waterproof wire nuts in the following manner (Note that the supply-side wire may be a different gauge wire):

Input power	208 - 240 Vac, Single phase
Line 1 (HOT)	Black Wire
Line 2 (HOT)	Black Wire
Ground	Green Wire
Neutral	White Wire



The neutral wire must be connected to the supply-side neutral wire in order for the charger to function properly.

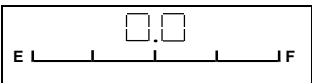
16. Reinstall the cover of the plastic junction box by first inserting the slotted side of the lid onto the lower right-hand side screw. Secure cover by tightening the upper left-hand screw.
17. Attach the access panel to the pedestal using eight #15 tamper-resistant screws. Torque to 19 lbs-in.
18. From the outside of the pedestal, attach the side opening cover plate using two #15 tamper-resistant screws. Torque to 19 lbs-in.

**System Test** (Refer to figures 5 & 6)

19. Turn on the circuit breaker located in the service panel.
20. Perform the Charging Circuit Interrupting Device (CCID) test. Refer to the owner’s manual for test procedure.

21. Remove the coupler paddle from holster. Verify the charger displays



momentarily, then . If the display does not illuminate, verify that the circuit breaker or CCID has not tripped. Also check the input voltage and all wiring connected to the charger.

22. Return the coupler paddle to its holster. Verify that the display goes blank.
23. The charger is now ready for use.

**Site Clean Up**

24. Recover all packing materials for return to the distributor.
25. Pick up all debris around the work area and sweep clean.
26. Present the owner’s manual and installation manual to the owner of the charger.

# Floor Mount Figures

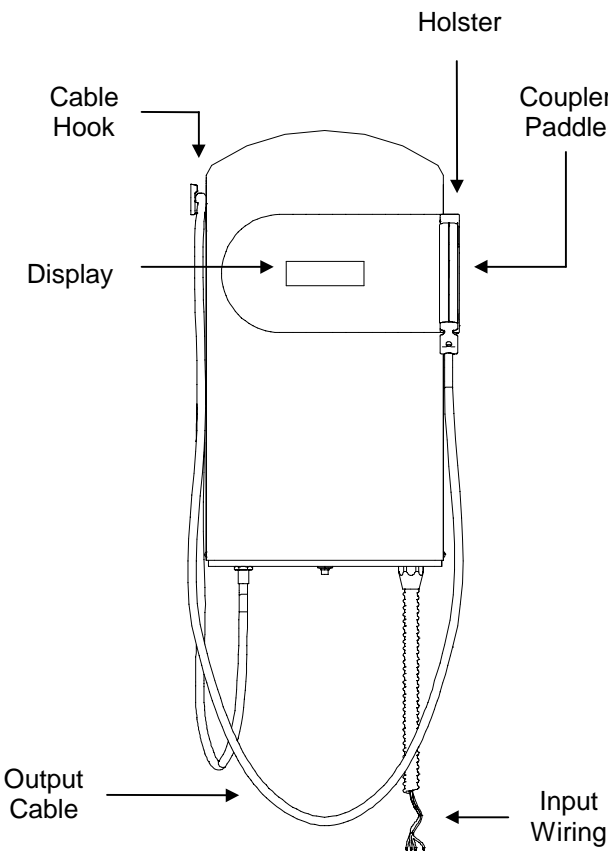


FIGURE 5 - FRONT VIEW

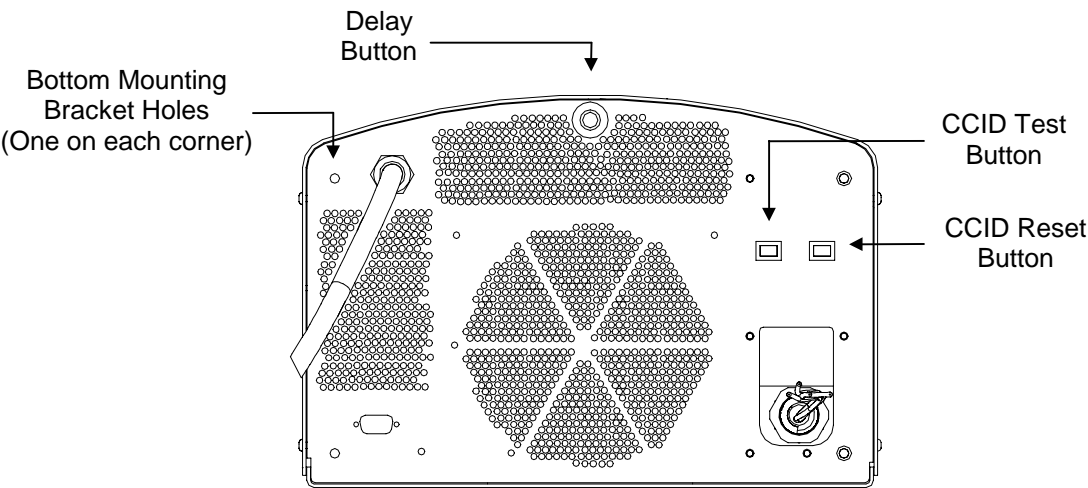
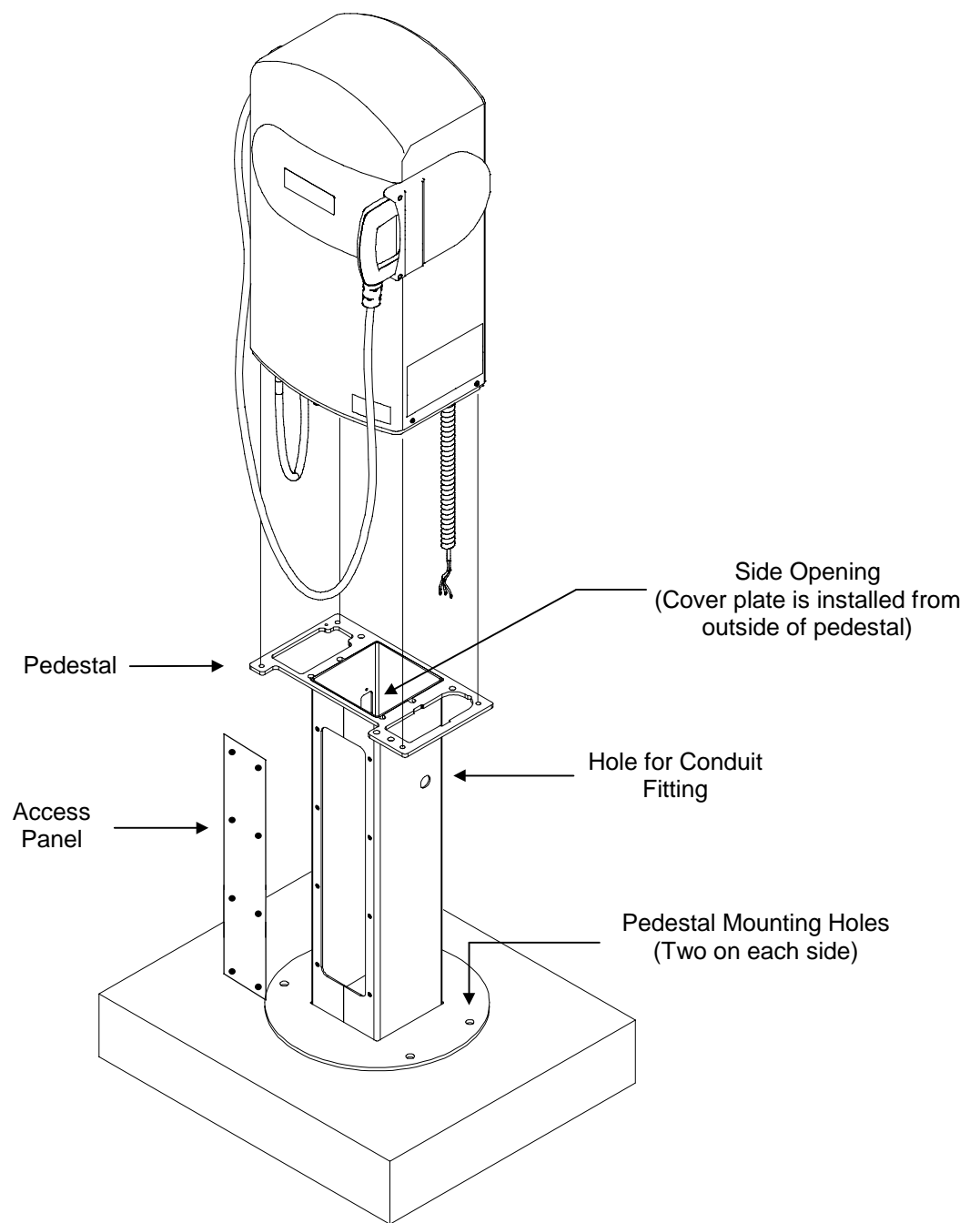
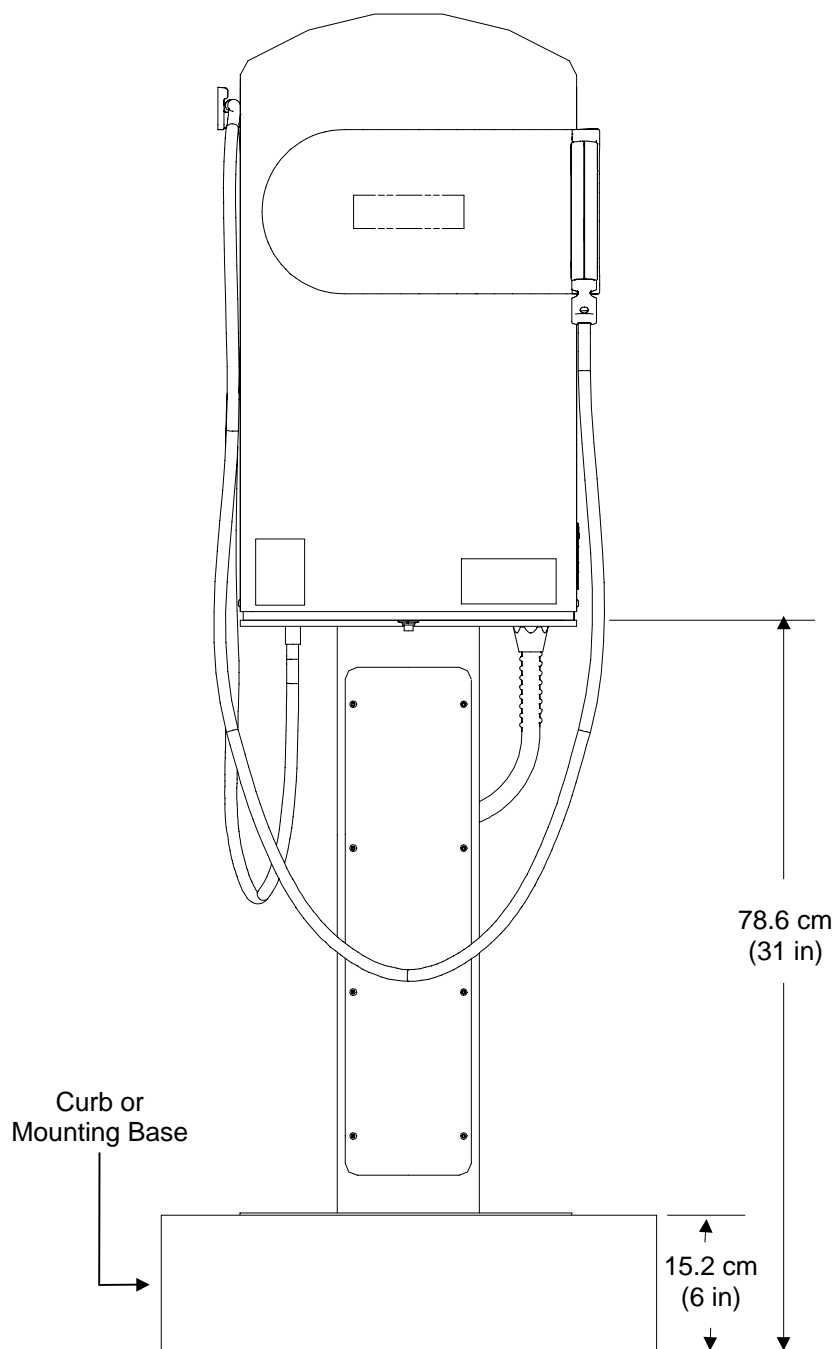


FIGURE 6 - BOTTOM OF CHARGER



**FIGURE 7 - PEDESTAL INSTALLATION**



**FIGURE 8 - MOUNTING HEIGHT**

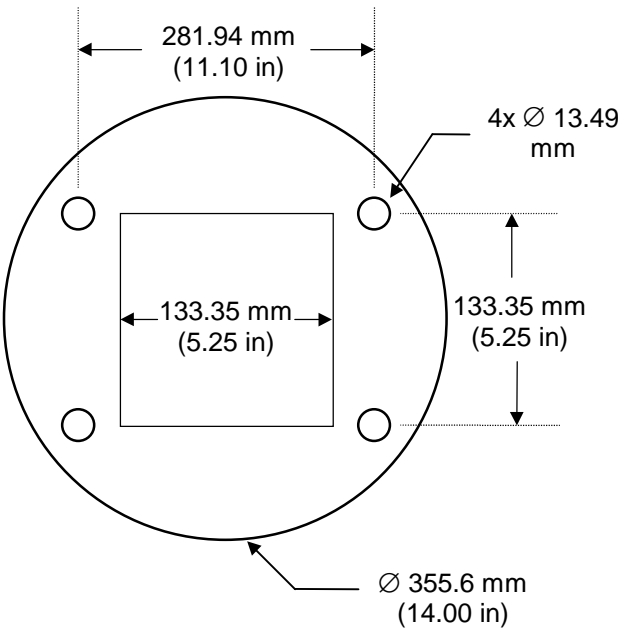


FIGURE 9 - PEDESTAL HOLE LOCATIONS

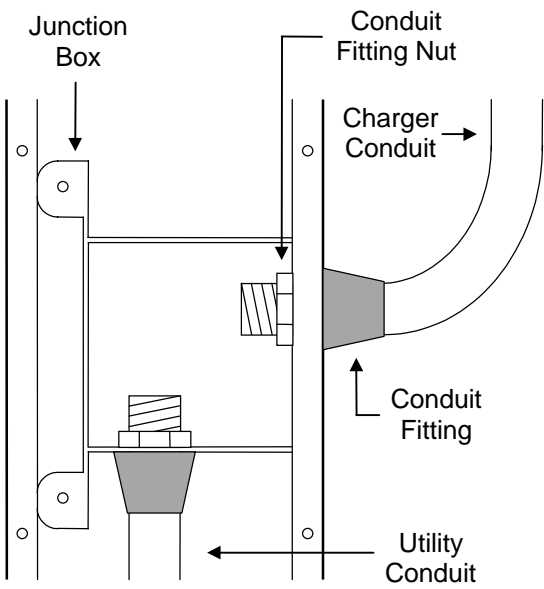


FIGURE 10 - J-BOX INSTALLATION

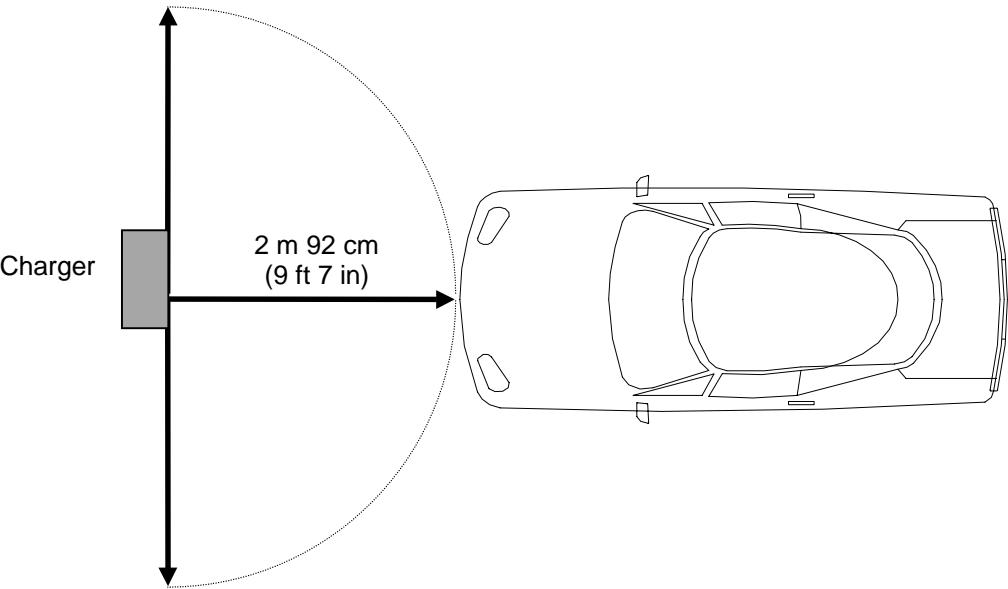


FIGURE 11 - USABLE CABLE LENGTH

# General Information

**NOTICE:** Changes or modifications to this product by other than an authorized service facility could void the product warranty.

1. This installation manual includes the latest information available at the time of printing.  
General Motors Advanced Technology Vehicles (GM ATV) reserves the right to make changes to this product without further notice.
2. If you have questions about the use of this product, contact your Magne Charge™ Sales and Service Representative.



# **GM ADVANCED TECHNOLOGY VEHICLES**

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Listed  
EV Battery Charger  
7M60

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