INSTALLATION GUIDE

Wall-Mounted Installation

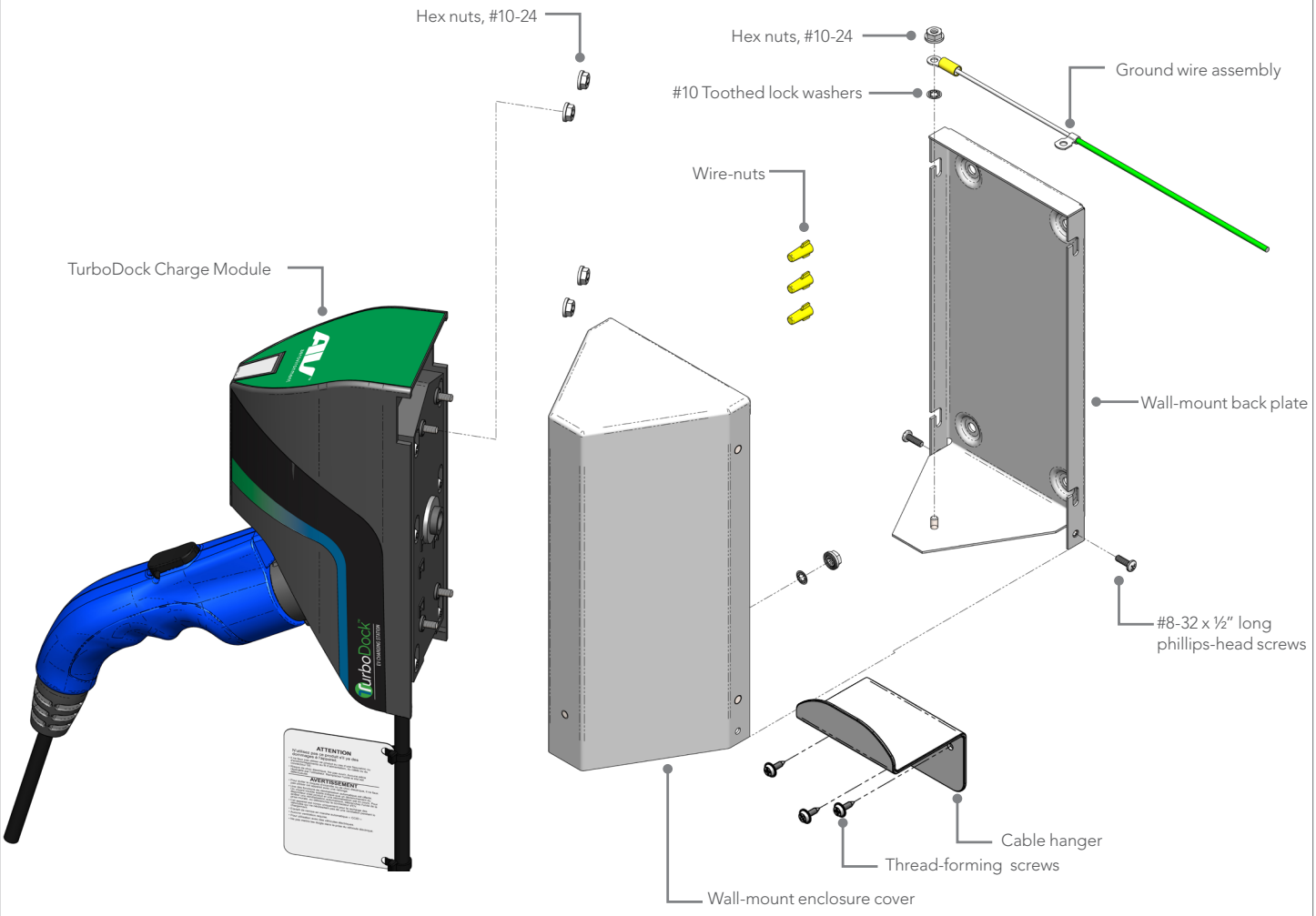
AeroVironment EV Solutions™ TurboDock™ Charging Station

Important: Installation should be completed by a licensed, qualified electrician. Installation must comply with the provisions of the National Electric Code (NEC) and all local codes. In cases of conflict between local codes and the NEC, local codes shall take precedence. Verify with authority having jurisdiction.

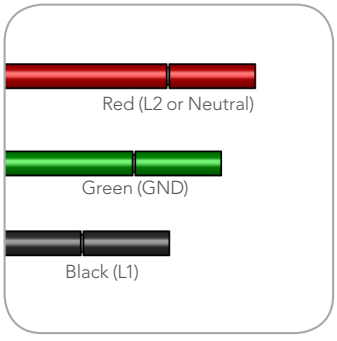
Model TurboDock

NOTICE TO ELECTRICIAN: Leave this Installation Guide with the TurboDock

WALL-MOUNTED INSTALLATION



Detail of Wires



TOOLS AND HARDWARE

HARDWARE PROVIDED IN WALL-MOUNT KIT

1 Qty - Wall-mount enclosure cover

1 Qty - Wall-mount back plate

1 Qty - Ground wire assembly

2 Qty - #8-32 x ½" long phillips-head screws

2 Qty - Hex nuts, #10-24

2 Qty - #10 Toothed lock washers

HARDWARE PROVIDED IN TURBODOCK KIT

4 Qty - Hex nuts, #10-24

1 Qty - Cable hanger

3 Qty - Thread-forming screws

3 Qty - Wire-nuts

SPECIAL TOOLS REQUIRED

13/64" drill bit for #10 screw clearance holes

7/8" drill bit or hole saw for wire entry hole

Drills as required for ¼" and #8 fasteners

Drill or knockout punch for conduit fitting used

Magnetic torpedo level

REQUIRED HARDWARE

****NOT SUPPLIED****

¼" Fasteners and/or anchors appropriate for wall material and construction, Qty. 4

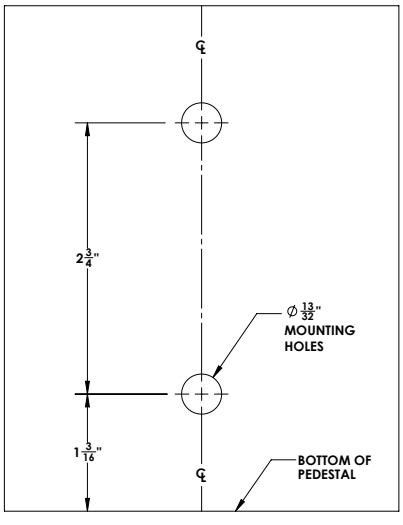
#8 fasteners and/or anchors appropriate for wall material and construction, Qty. 3

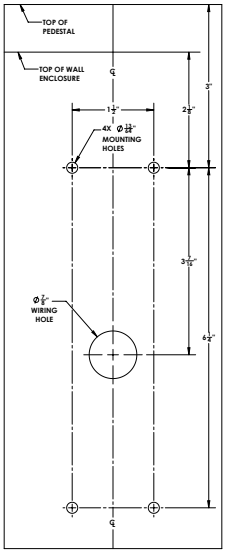
Conduit and fittings as applicable

Wire, per local code, #12 AWG minimum, to extend to at least 6" into wall mount enclosure

20A circuit breaker, double-pole or single-pole

Detail of template





INSTALLATION STEPS

Before you start:

- Determine the location and orientation of the wall mounted TurboDock(s), as directed by Account Manager (AM). Decide how high the mount must be.**
- Run the appropriate conduit and wiring from the service panel to the installation site per local code, #12 AWG minimum. Use a 20 Amp double-pole circuit breaker for 240V service (Level II charging) or a 20 Amp single-pole circuit breaker for 120V service (Level I charging).
- **Installation must comply with the Americans with Disabilities Act (ADA). The top of each TurboDock charger must be between 39" and 49" above the access surface. Access space between and around the wall-mounts must also comply with the ADA.

1 Wall Mount set up

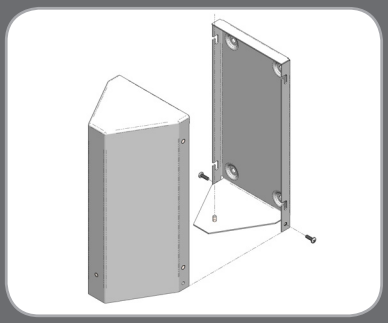
Open the wall-mount enclosure. Using the back plate as a template, mark hole locations on wall.

- Plumb the back plate with level.
- Do not secure back plate to wall yet.

Drill or punch a conduit fitting hole in either the bottom or back of the mounting plate, as appropriate for the orientation of the conduit inlet.

Drill holes in the enclosure front piece:

- Use template included with TurboDock to mark the 5 holes for each TurboDock on each face of the wall mount enclosure where a TurboDock will be installed.
- Note reference line to be aligned with top of wall mount enclosure.



2 Make your connections

Attach TurboDock chargers to enclosure:

- Insert the 3 wires through large hole in the side of the enclosure.
- Insert the studs on the charger into the 13/64" holes on the enclosure.
- Install and securely tighten the four #10-24 nuts provided.
- Repeat for other charger if a dual installation.

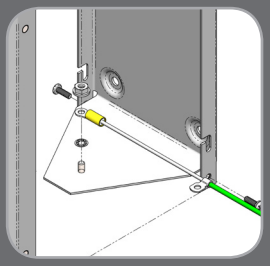
Connect the bonding wire from the enclosure back plate to the front piece.

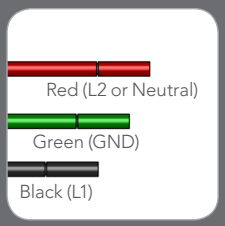
- Toothed lockwashers to be installed between housing and ground lugs to ensure electrical contact.

Secure TurboDock wires to the electrical service wires using yellow wire-nuts provided, as per electrical code.

Lift enclosure cover onto notches in back plate.

Replace #8 screws into holes at bottom sides of the enclosure.

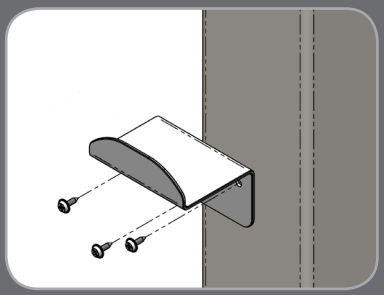




3 Attach the Hanger

Choose locations on the wall for the cable hangers. Using a cable hanger as a template, mark the holes for the hangers.

- Holes must be at least 6" from the bottom of TurboDock.
- Leave enough room between hangers for cables to hang freely.
- Attach the cable hangers with installer-supplied #8 fasteners.



INSTALLATION STEPS

4 Complete install

Test each charger:

- Turn on power (to one unit at a time, if possible).
- Verify that top light is steady blue, otherwise refer to the troubleshooting guide.
- Verify that lower-front lights show steady blue, otherwise refer to the troubleshooting guide.
- On the nameplate label on the front of each TurboDock, mark the correct box: 240V or 120V.

Inform the Account Manager that the TurboDock is ready with "open access". If the AM desires, you can now test the TurboDock by charging a vehicle.

CORPORATE HEADQUARTERS
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