

Truecharge 20+/40+ DC Wiring Table and Grounding Stud

Erratum

976-0117-01-01 Rev A

This erratum applies to the Truecharge 20+/40+ Owner's Guide, part number 445-0050-01-01 Rev. A. The following information affects the installation chapter of that manual.

Summary

Some values in the DC Wiring Table on page 2-5 of the Owner's Guide are incorrect. The Owner's Guide also does not reference the DC grounding stud or contain any guidelines or procedures for grounding the unit.

DC Wiring Table

The DC Wiring Table in the section entitled "Wiring Requirements" should be replaced by this table.


Wire Length (maximum length one way)		Wire Size AWG*	
Feet	Meters	TC 20+	TC 40+
5	1.5	No. 10	No. 8
7.5	2.25	No. 10	No. 6
10	3	No. 8	No. 6

* Based on ABYC Recommended Practice E-11, 75 °C wire, 3% voltage drop, inside and outside of engine space

Grounding Stud

Truecharge 20+ and 40+ models now have a DC grounding stud. When installing the charger, ensure that you follow the following guidelines and procedures.

Wiring Requirements

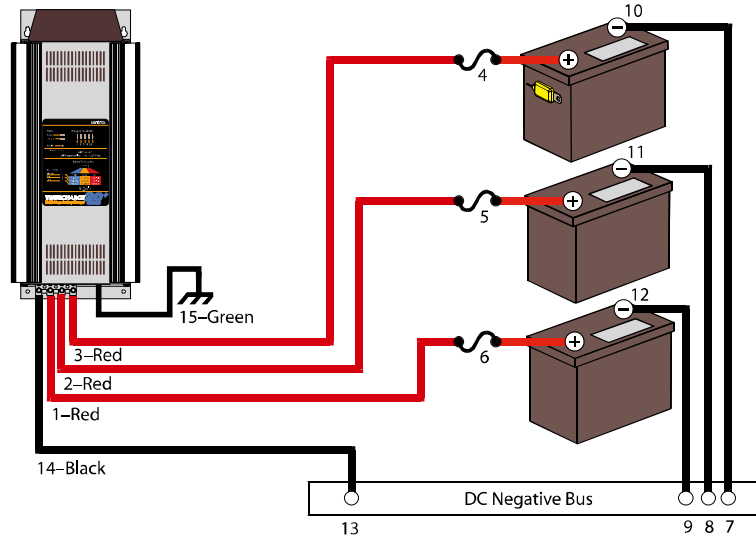
The Truecharge+ is equipped with a stud (size #10-32, 3/8" long) on the mounting flange with the chassis ground symbol . This stud is used to connect the chassis of the Truecharge+ to your DC ground as required by regulations for some installations. Depending on where the Truecharge+ is installed, follow the instructions corresponding to your installation location.

RV Installations: Use #8 AWG or larger copper wire (green in color if insulated) to secure the Truecharge+ DC (chassis) ground stud to the grounding point in the vehicle (usually the chassis).

Marine Installations: ABYC recommended practices require the chassis ground wire to be no less than one gauge smaller than that of the main DC cables used. Connect the ground wire to the Truecharge+ DC (chassis) ground stud and to the DC grounding point of your system—usually the boat’s DC ground bus.

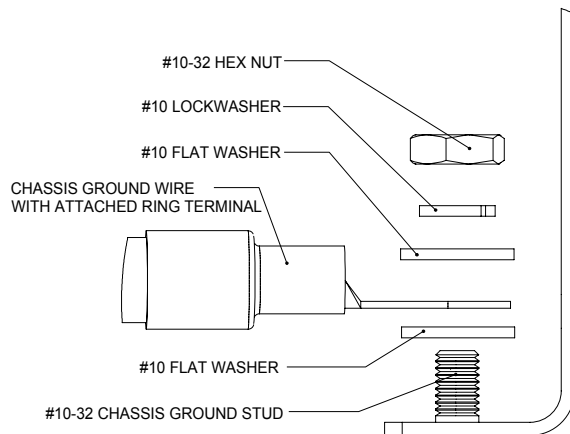
Connecting the Ground Wire

Connecting the ground wire is part of the overall DC wiring procedure, and should be performed after making connections to and from the battery bank(s). The illustration below shows the DC wiring connection order.



To connect the ground wire:

1. Connect the DC chassis ground wire to the appropriate location as per “Wiring Requirements” above. This location should be free of paint or other materials that could prevent proper electrical contact.
2. Secure the other end of the ground wire to the Truecharge+ chassis ground stud, using a suitable crimp ring terminal. Remove the nut, lock washer and flat washer from the ground stud, place the ground wire terminal over the bottom flat washer and stud, and replace the washers and nut. Tighten the nut to a torque of 19 to 21 in-lbf.



Attaching the Chassis Ground Wire

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