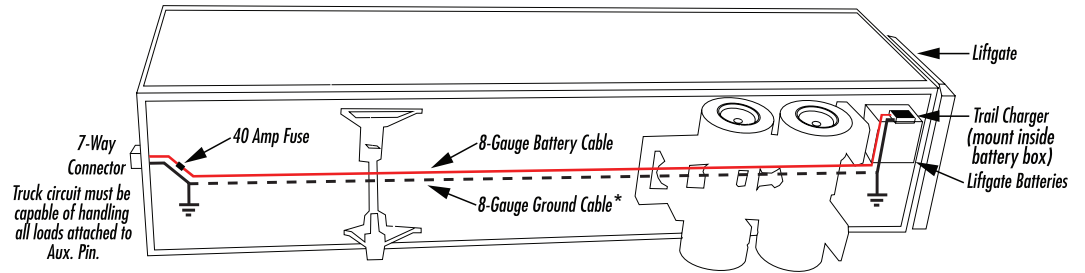


Trail Charger

Installation instructions and trouble shooting

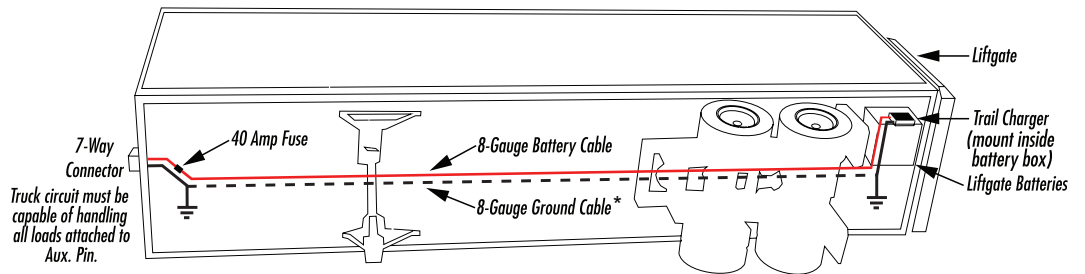
Introduction

The following installation instructions and trouble shooting guide are meant for the Eaton Trail Charger for trailer mounted lift gate applications (model #11020C11)



Installation instructions

1. The Trail Charger must be mounted inside the battery box or in a location free from road spray and as close to the lift gate batteries as possible. The Trail Charger should be oriented so the connector is horizontal with the indicator light easily visible. Eaton warranty does not cover corrosion related issues.
2. The power wires should be routed following manufactures suggested installation methods keeping all of the wiring protected.
3. Wire ties should be used to prevent wires from slacking. Keep slack to a minimum between wires exiting the trailer wire channel and the Trail Charger mounting location.
4. Use rubber grommets wherever wires pass through holes cut into any type of material.
5. Run 8-gauge battery cable the entire length of the trailer before connecting the fuse holder wire harness to the Aux. pin of 7-way connector at front of trailer.

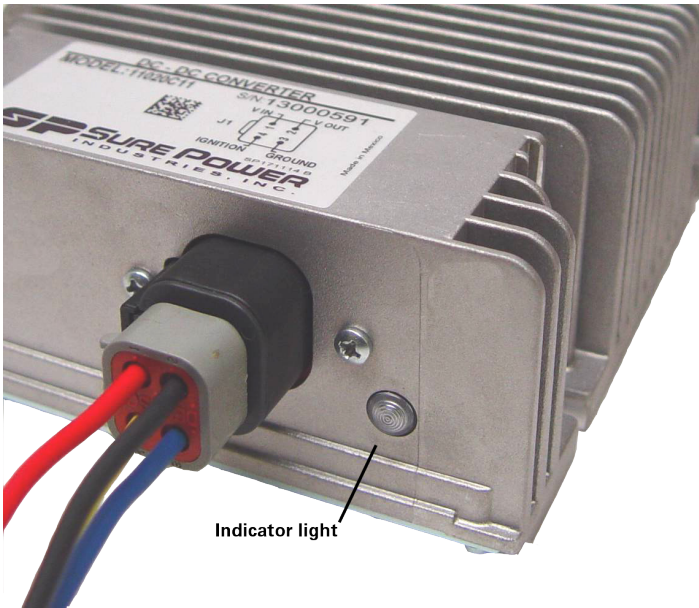


Notes: In most cases the ground cable may be connected to the trailer frame and the lift gate and battery negative may be connected to the frame. Use a separate ground cable if the trailer frame is made of a poor conductive metal such as stainless steel.

- Connect power from the Aux. pin of the 7-way connector to Trail Charger pins 1 and 4. Truck circuit must be capable of handling all loads attached to Aux. pin.
- Reduce the 8-gauge wire to 10-gauge for the Input Power and to 14-gauge for the Ignition Power.
- Connect Ground to pin 3 and connect the Trail Charger Output (pin 2) to the lift gate batteries.
- Use 12-gauge wire for Trail Charger Output and ground.



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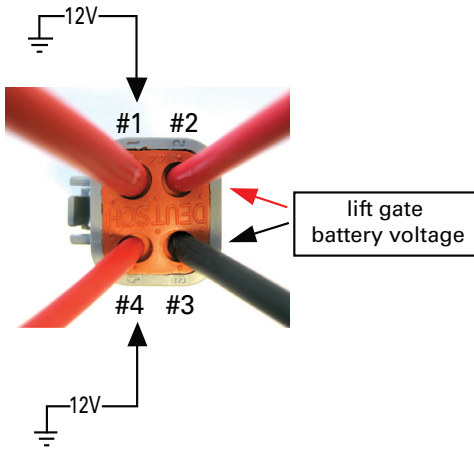


Indicator light

Trouble shooting

The initial check should be to connect the trailer to a tractor or other power supply and check to see if the power indicator light is on.

Note: 7-way trailer connector must be plugged in and newer model tractors require the key switch to be in the run position to provide power to the Aux. pin. If the Aux. pin is not controlled with switched power, the tractor batteries may discharge into the lift gate batteries, resulting in a no-start condition.



Pin 1	Input power
Pin 2	Output
Pin 3	Ground
Pin 4	Ignition

If the power indicator is not on, unplug the 4-way connector and check the inputs and outputs.

Pins #1 (input power) and #4 (ignition) - Both should read battery voltage (with reference to ground) coming from the 7-way connector.

Note: In this installation pins #1 and #4 have been paralleled in the wiring harness.

Input connection

If power is not present at pin 1 and pin 4 of the Trail Charger input connector be sure to check for power at the 7-way junction box located at the front of the trailer. Check the fuses located inside the junction box. If power is not present at the 7-way junction box check the connector cord and the 7-way connector of the trailer.

Pins #2 (output) and #3 (ground) - You should be able to put your red meter lead in #2 and your black meter lead in #3 and read the same voltage as the lift gate batteries.

Output connection

If the voltage between pins #2 and #3 is not the same as the voltage of the lift gate batteries, check the connection between the Trail Charger and the batteries.



Fuse holder

If power is present at the connector, plug connector back into Trail Charger. The voltage at the lift gate batteries should begin to rise (unless the batteries are shorted). The green LED should illuminate. If it does not, the Trail Charger may be defective. Contact technical support at Eaton at 800-845-6269 ext. 103 for assistance.

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