

TRAILER ADD-ON Powered Taillight Converter Harness Wiring Kit

INSTALLATION INSTRUCTIONS

Kit Includes:

- (1) Wiring Harness with 4-Flat Connector
- (8) 6" Cable Ties
- (1) 15" Cable Ties
- (1) Primary Lead Wire
- (1) Ring Terminal
- (1) Butt Terminal
- (1) Fuse Holder
- (1) 10 Amp Fuse
- (1) #10 Self Tapping Screw

TRAILER ADD-ON HARNESS

INSTALLATION INSTRUCTIONS

1. Read instructions thoroughly before beginning.
2. Locate breakout on RV Harness labeled "FOR TRAILER TOW USE ONLY: POWERED CONVERTER 85350 REQUIRED". This breakout is located behind the driver's side taillight or behind driver's side interior panel depending on vehicle.
3. Identify protective dust cover from T-Connector add-on breakout shown in **Figure 1**.

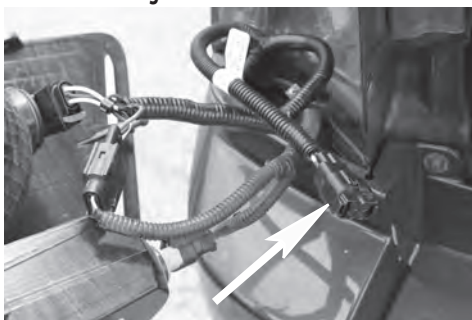


Figure 1

4. Press down on Female 4-Way connector and pull in direction shown in **Figure 2** to separate from RV harness. Inspect connector for dirt and debris and clean if necessary.

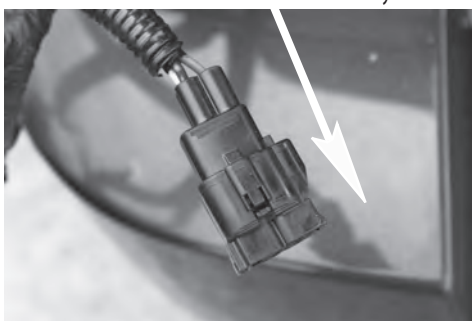


Figure 2

5. Plug mating connector on Converter harness into RV Harness from Step #4.
6. Locate a clean and accessible mounting location on the vehicle near the RV harness ends within reach of white wire and ring terminal. **If possible use existing hole drilled for RV harness ground.** Remove any debris or undercoating to expose a clean metal surface and drill a 3/32" hole.
Caution: Take care not to drill through the body or any exposed surface.

7. Attach ring terminal on the White wire using the ground screw provided.
8. Route Car side 4-Flat connector from Add-On harness to center of vehicle and secure to hitch using cable tie provided.
Caution: Make sure to avoid areas that could cut, pinch or burn the wires when routing the harness across the vehicle.

9. Remove Negative (-) battery wire.
10. Route the 12 gauge Black wire from engine compartment under vehicle along frame rail, shown in **Figure 3**, to a position near the left (driver) side taillights housing and Converter black box. Secure Black wire to vehicle frame using cable ties provided.



Figure 3

Caution: When routing wire through metal or other sharp surfaces, always utilize an existing grommet or insulate wire from the hole with silicone rubber.

11. Under the hood, cut the wire on the Yellow fuseholder in half. Strip 5/16" of the insulation on one side and attach the 3/8" ring terminal using a crimping tool.
12. Strip 5/16" on the opposite end of Yellow fuseholder and attach the Black 12 gauge wire to it using the Yellow butt connector.
13. With the fuse removed, attach the 3/8" ring terminal on Yellow fuseholder to vehicles positive (+) battery terminal shown in **Figure 4**.



Figure 4

Warning: Do not attempt to connect black power wire to vehicle fuse panel or any other accessory wiring. Failure to connect directly to the vehicle battery may cause vehicle and/or trailer lighting failure.

14. At rear of vehicle, strip 5/16" of insulation from Black 12 gauge wire and crimp it to the butt connector on taillight converter module.
15. Re-attach vehicle Negative (-) battery wire removed in Step #9.
16. Place Red 10 Amp fuse in fuseholder installed in Step #13.
17. Confirm correct operation with a test light or by using a trailer.
18. Locate suitable location to mount converter box. Remove paper from back of double-sided tape and press against surface. If necessary clean surface prior to mounting.
19. Secure loose wires behind taillights with cable tie provided and re-attach taillight to vehicle. If necessary re-install rear interior panels and other hardware removed during install.

WIRE ENTRY VIEW
4-WAY FEM. CONN.

