

# TRAILER ADD-ON Powered Taillight Converter Harness Wiring Kit

## INSTALLATION INSTRUCTIONS

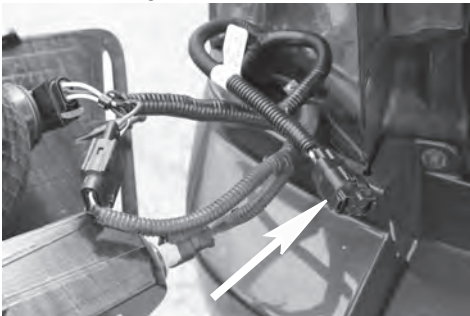
Kit Includes:

- (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

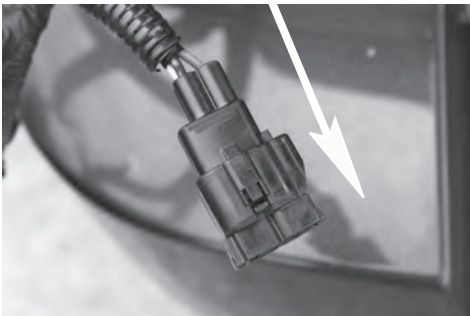
### INSTALLATION INSTRUCTIONS

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.

