

# INSTALLATION MANUAL

## Level of Difficulty

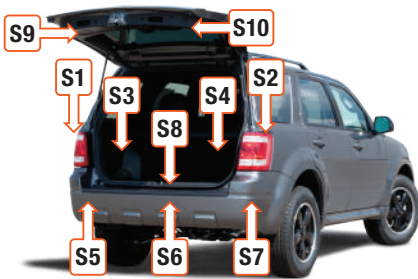
Easy

## Wiring Location(s)

S1, S2, T1, T2

## Wiring Location Guide\* for SUVs and Vans (S)

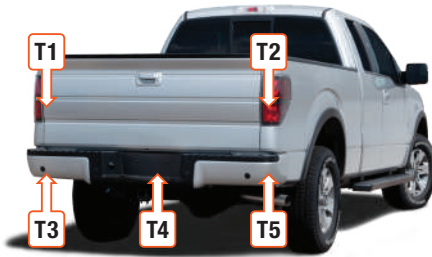
S1	Behind driver side taillight housing
S2	Behind passenger side taillight housing



\* Representative vehicle shown

## Wiring Location Guide\* for Trucks (T)

T1	Behind driver side taillight housing
T2	Behind passenger side taillight housing



\* Representative vehicle shown

## Tools Required

Ratchet	Fish wire
Socket, 8mm	Cutting tool
Socket extension	Wire crimper
Torx bit, T-30	Wire stripper
Flathead screwdriver	--

## ⚠ WARNING

Do not exceed product rating or tow vehicle lamp load rating, whichever is lower.

## NOTICE

Before you begin installation, read all instructions thoroughly.

Proper tools will improve the quality of installation and reduce the time required.

All steps must be followed to ensure the product will function properly. Once installed, test for proper function by using a test light or connecting a properly wired trailer.

## Maintenance

Periodic inspection of all wires and connections should be performed to ensure there is no visible damage or loose connections.

### Step 1

Locate the vehicle battery. Look up the battery location in the owner's manual of your vehicle. Disconnect the negative battery terminal. Be sure to fasten this wire down and away from the battery when completing the installation process.



### Step 2A: Wrangler

Open the vehicle tailgate on the driver side and locate the small trim access cover from the side interior panel. Use a small flathead screwdriver to remove the cover.



### Step 3A: Wrangler

Use a T-30 torx bit to remove the taillight fastener, taking care not to damage the fastener.



### Step 4A: Wrangler

Remove the taillight by pulling straight back. At the rear of the light, release the wiring harness by sliding the red lock on the housing towards the rear of the housing.

Separate the connectors, taking care not to damage the locking tabs. Set the taillight aside.

Repeat steps 2A - 4A on the other side of the vehicle.



### Step 5A: Wrangler

Starting on the driver side, locate the side of the custom wiring harness with the yellow wire and insert the custom harness into the factory wiring. Make sure the connectors are fully inserted with the locking tabs in place.

### Step 6A: Wrangler

Locate a grounding point near the box such as an existing screw or bolt in the frame of the vehicle or drill a 3/32" pilot hole. The area should be free from rust, dirt, and paint (Use abrasive pad/paper to remove rust and paint). Secure the white ground wire with the ring terminal on the existing fastener or with the provided ground screw.

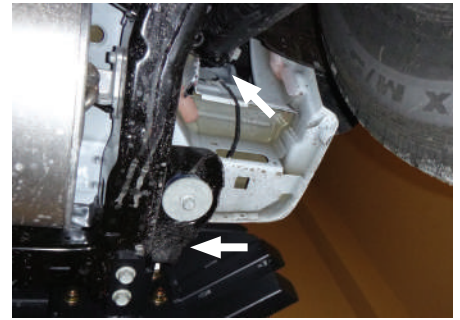
#### **⚠ WARNING**

Check for miscellaneous items that may be hidden behind or under any surface before drilling to avoid damage and / or personal injury.

### Step 7A: Wrangler

Route the custom wiring harness end with the green wire and the 4-flat down the opening where you can see the rear leaf spring shackle. Route above the frame and below the body along the rear bumper towards the passenger side. Secure any loose wires with the provided cable ties.

Mount the 4-flat towards the center of the vehicle, near the hitch. Finish routing the green wire to the passenger side.



### Step 8A: Wrangler

Route the green wire up to the passenger-side taillight harness and insert the custom wiring harness into the factory wiring. Make sure the connectors are fully inserted with the locking tabs in place.



### Step 9A: Wrangler

Install the taillights into the custom wiring harness and reinstall the taillight. Make sure the connectors are fully inserted with the locking tabs in place. Repeat on the other side.

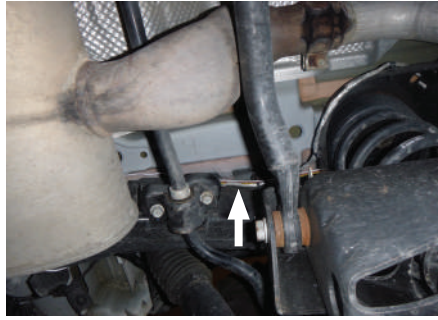
#### **NOTICE**

Once the custom wiring harness is installed, verify that the harness is functioning by attaching the 4-flat to any vehicle with functioning trailer lights. The taillights on the tow vehicle should function along with the taillights on the towing vehicle.

Install your vehicle RV wiring harness add-on, allowing your RV harness to also act as a trailer light harness.

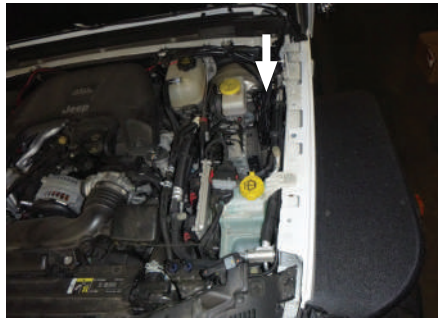
### Step 10A: Wrangler

Route the 4-flat wire above and along the frame rail and zip tie in place up until you reach the firewall.



### Step 11A: Wrangler

Once to the firewall, run the 4-flat up along the firewall to the brake master cylinder and to the top side of the engine compartment.



### Step 12A: Wrangler

Run the 4-flat along the driver-side inner fender to the front of the vehicle. Zip tie in place, making sure the wires will not come into contact with moving, or hot objects.

Fish the 4-flat under the wiper fluid tank mount and the radiator support. The 4-flat end will mount next to the hood sensors. This area will keep the 4-flat out of the elements and allow for quick access.



### Step 13A: Wrangler

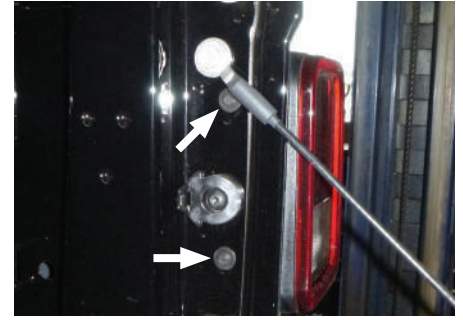
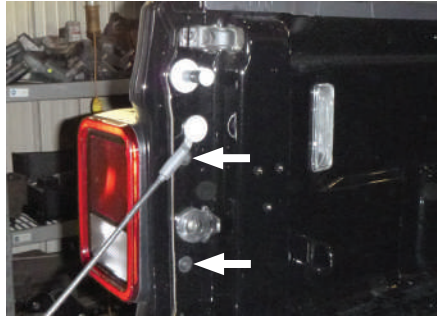
Secure any excess wire so that it is not drooping or dangling, but not so tight that it causes unnecessary strain to the wire which could lead to breakage over time. After removing slack from the 4-flat wire, tighten any zip ties and add as needed. Use a zip tie to fasten any excess wire to a solid spot along the driver-side inner fender.

Reinstall all items removed during install. If it was disconnected at the beginning of the installation, reconnect the negative battery terminal. Install the provided 4-flat dust cover to help prevent corrosion.

### Step 2B: Gladiator

Open the tailgate and use an 8mm socket to remove the two bolts securing the taillight to the vehicle.

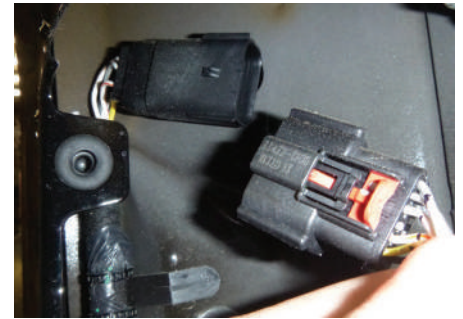
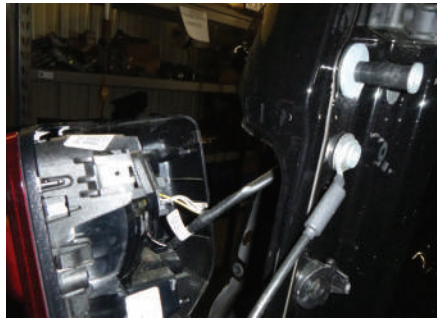
Repeat on the other side of the vehicle.



### Step 3B: Gladiator

Remove the taillight by pulling straight back. Separate the connectors, taking care not to damage the locking tabs. Set the taillight aside.

Repeat on the other side of the vehicle.



### Step 4B: Gladiator

Starting on the driver side, locate the side of the custom wiring harness with the yellow wire and insert the custom harness into the factory wiring. Make sure the connectors are fully inserted with the locking tabs in place.

### Step 5B: Gladiator

Locate a grounding point near the box such as an existing screw or bolt in the frame of the vehicle or drill a 3/32" pilot hole. The area should be free from rust, dirt, and paint (Use abrasive pad/paper to remove rust and paint). Secure the white ground wire with the ring terminal on the existing fastener or with the provided ground screw.

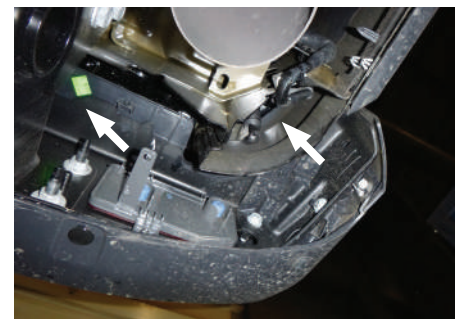
#### **⚠ WARNING**

Check for miscellaneous items that may be hidden behind or under any surface before drilling to avoid damage and / or personal injury.

### Step 6B: Gladiator

Route the custom wiring harness end with the green wire and the 4-flat down the opening behind the taillight and along the rear bumper towards the passenger side. Secure any loose wires with the provided cable ties.

Mount the 4-flat towards the center of the vehicle, near the hitch. Finish routing the green wire to the passenger side.



### Step 7B: Gladiator

Route the green wire up to the passenger-side taillight harness and insert the custom wiring harness into the factory wiring. Make sure the connectors are fully inserted with the locking tabs in place.



### Step 8B: Gladiator

Install the taillights into the custom wiring harness and reinstall the taillight. Make sure the connectors are fully inserted with the locking tabs in place. Repeat to other side.

#### NOTICE

Once the custom wiring harness is installed, verify that the harness is functioning by attaching the 4-flat to any vehicle with functioning trailer lights. The taillights on the tow vehicle should function along with the taillights on the towing vehicle.

Install your vehicle RV wiring harness add-on, allowing your RV harness to also act as a trailer light harness.

### Step 9B: Gladiator

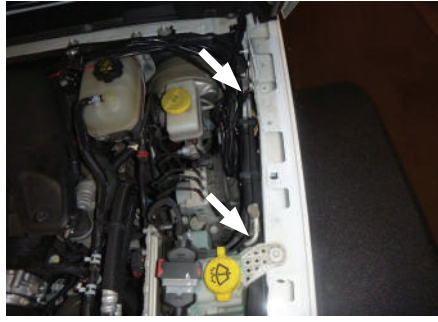
Route the 4-flat wire above and along the frame rail and zip tie in place up until you reach the firewall.



### Step 10B: Gladiator

Run the 4-flat along the driver-side inner fender to the front of the vehicle. Zip tie in place, making sure the wires will not come into contact with moving or hot objects.

Route the 4-flat under the wiper fluid tank and the radiator support onto the 4-flat mount next to the hood sensors.



### Step 11B: Gladiator

Secure any excess wire so that it is not drooping or dangling, but not so tight that it causes unnecessary strain to the wire which could lead to breakage over time. After removing slack from the 4-flat wire, tighten any zip ties and add as needed. Use a zip tie to fasten any excess wire to a solid spot along the driver-side inner fender.

Reinstall all items removed during install. If it was disconnected at the beginning of the installation, reconnect the negative battery terminal. Install the provided 4-flat dust cover to help prevent corrosion.