

# INSTALLATION MANUAL

## Level of Difficulty

Easy

Installation difficulty levels are based on time and effort involved and may vary depending on the installer level of expertise, condition of the vehicle and proper tools and equipment.

## Wiring Location(s)

T1 and T2

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

|    |   |
|----|---|
| T1 | Behind driver side taillight housing    |
| T2 | Behind passenger side taillight housing |
| T3 | Behind driver side rear bumper          |
| T4 | Behind center of rear bumper fascia     |
| T5 | Behind passenger side rear bumper       |



\* Representative vehicle shown

## Tools Required

|                                     |                         |
|-------------------------------------|-------------------------|
| Ratchet                             | Panel trim removal tool |
| Socket extension                    | Cutting tool            |
| Torx bit, T-20<br>(Expedition only) | Fish wire               |
| Torx bit, T-15<br>(Equinox only)    | Electrical tape         |

## ⚠ WARNING

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

Be sure not to lay tools across the positive (typically noted with red covers or a red '+' symbol). This can cause a ground to short causing sparks, and / or electrical shocks.

## Product Photo



## 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 1A: Ford Expedition

Locate the vehicle battery and disconnect the negative battery terminal. Be sure to fasten this wire down and away from the battery while completing the installation process.



### Step 2A: Ford Expedition

Open the hatch of the vehicle. Using a T-20 Torx bit, remove the two screws securing the taillight in place. Remove the taillight by pulling straight back. Carefully disconnect the taillight connectors, being careful not to damage the locking tabs. Set the taillight off to the side.

Repeat this step on the other side of the vehicle.



### Step 3A: Ford Expedition

Locate the filler material just below the taillight in the bumper cover. Remove the material from both sides. Starting on the driver side, use the fishwire from the top side and route down the bumper cover. From under the vehicle, attach the connector with the yellow wire to the fishwire and pull up to the taillight cavity.



### How to Fishwire

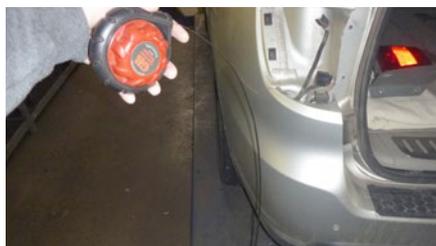
**A)** Fish wire is a way to push or pull an electrical wire through a blind hole. Make sure the wire is long enough to stick out on the other side.

Insert the fish wire through the blind hole and locate it on the other side.

**B)** Use tape to secure the harness to the fish wire and pull back up.

The fish wire or harness may get hung up on something, if this happens you may have to push back down, wiggle it around or twist the wire to loosen it from what it's hung up on.

Fish wire could be anything from a cut-up wire hanger, stiff wire, rope or string depending on what is needed for the installation.



#### Step 4A: Ford Expedition

Route the harness connector with the green wire to the passenger side of the vehicle along the rear bumper. Loosely secure with zip ties, leaving room for adjustments until the harness has been installed to the factory harness.

Repeat step 3 on the passenger side of the vehicle. Reinstall the taillights on both sides.



#### Step 5A: Ford Expedition

Locate a grounding point 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 (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.

#### ⚠ CAUTION

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

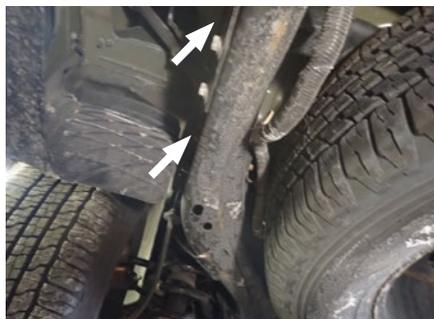
#### NOTICE

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.



#### Step 6A: Ford Expedition

Tighten the zip ties down so that the harness is firmly in place along the rear bumper. On the driver side, route the 4-flat along or above the frame rail and up to the rear of the front tire, keeping clear of any moving or hot parts of the vehicle.



#### Step 7A: Ford Expedition

Once the harness is just behind the driver-side front wheel, route the 4-flat harness to the rear of the driver-side wheel well. In the engine compartment, using a fishwire, route the 4-flat down along the inner fender and from under the vehicle.



### Step 8A: Ford Expedition

Pull back the inside of the wheel well lining to locate the fishwire. Route the 4-flat wire up into the engine compartment using the fishwire. Route the 4-flat along the driver-side inner fender to the front of the vehicle and mount.



### Step 9A: Ford Expedition

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 1B: Chevrolet Equinox

Locate the vehicle battery in the engine compartment on the driver side and disconnect the negative battery terminal. Be sure to fasten this wire down and away from the battery while completing the installation process.



### Step 2B: Chevrolet Equinox

Use a small screw driver to pry the two fastener covers off. Use the T-15 torx socket to remove the two fasteners. Repeat this step on the other side of the vehicle.

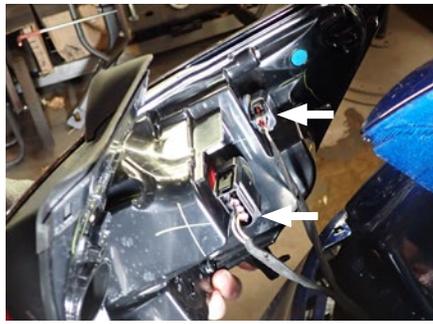


### Step 3B: Chevrolet Equinox

Remove the taillight by pulling straight back. The taillight has alignment tabs that are pressure-fit into the body of the vehicle. Wiggle the alignment tabs back and forth to loosen.

Disconnect the taillight connectors, being careful not to damage the locking tabs. Set the taillight off to the side.

Repeat this step on the other side of the vehicle.



### How to Fishwire

**A)** Fish wire is a way to push or pull an electrical wire through a blind hole. Make sure the wire is long enough to stick out on the other side.

Insert the fish wire through the blind hole and locate it on the other side.

**B)** Use tape to secure the harness to the fish wire and pull back up.

The fish wire or harness may get hung up on something, if this happens you may have to push back down, wiggle it around or twist the wire to loosen it from what it's hung up on.

Fish wire could be anything from a cut-up wire hanger, stiff wire, rope or string depending on what is needed for the installation.



### Step 4B: Chevrolet Equinox

Starting on the driver side, run a fish wire down between the body and the bumper cover. From under the vehicle, locate the side of the custom RV harness with the yellow wire. Attach the yellow side to the fish wire and pull the harness up to the factory harness.



### Step 5B: Chevrolet Equinox

Once the custom harness is up to the factory harness, connect the mating housings. Reconnect the taillight and reinstall back into its mounting location on the vehicle.

### Step 6B: Chevrolet Equinox

From under the vehicle, route the harness with the green wire along the back side of the bumper to the passenger side of the vehicle. Zip tie in place as needed, keeping clear of any moving or hot parts of the vehicle. Repeat steps 4B and 5B with the green wire of the harness.

### Step 7B: Chevrolet Equinox

Locate a grounding point 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 (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.

#### ⚠ CAUTION

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

#### NOTICE

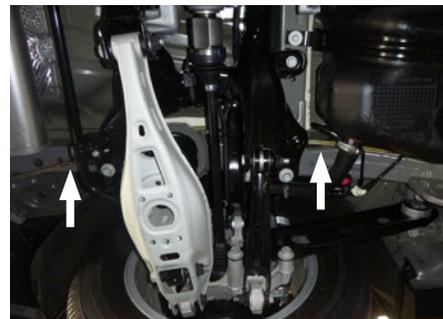
Once the custom wiring harness is installed, verify that the harness is functioning by attaching the 4-flat to any vehicle with functioning trailer lights. The taillights on the tow vehicle should function along with the taillights on the towing vehicle.

At this point, you can install your vehicle RV wiring harness add-on, allowing your RV harness to also act as a trailer light harness.



### Step 8B: Chevrolet Equinox

Route the 4-flat wire above the rear drive line, suspension mounts and the body. Zip tie in place as needed, keeping clear of any moving or hot parts of the vehicle.



### Step 9B: Chevrolet Equinox

Route the 4-flat wire along the fuel tank between the tank and the driver-side sub frame to the rear of the front tire.



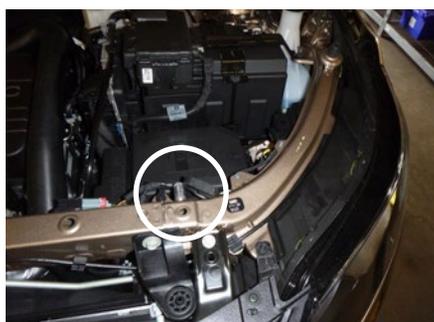
### Step 10B: Chevrolet Equinox

From the driver-side engine compartment, use the fish wire between the inner fender and the exterior fender to route the 4-flat up to the engine compartment. Locate the end of the fish wire just behind the inner fender / wheel well, attach to the fish wire and pull to the top side of the engine compartment.



### Step 11B: Chevrolet Equinox

Continue to route the 4-flat wire along the driver-side inner fender to the front of the vehicle. Zip tie as needed. Route behind the headlight and mount the 4-flat right next to the vehicle ground lug on the driver side.



### Step 12B: Chevrolet Equinox

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.