

# INSTALLATION MANUAL

## Level of Difficulty

Moderate

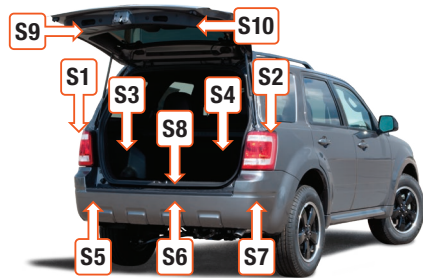
Installation difficulty levels are based on time and effort involved and may vary depending on the installer level of expertise, condition of the vehicle and proper tools and equipment.

## Wiring Location(s)

S1 and S2

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

S1	Behind driver side taillight housing
S2	Behind passenger side taillight housing
S3	Behind driver side rear access panel
S4	Behind passenger side rear access panel
S5	Behind driver side rear bumper
S6	Behind center of rear bumper
S7	Behind passenger side rear bumper
S8	Under rear floor panel
S9	Behind driver side rear access panel
S10	Behind passenger side rear access panel



\* Representative vehicle shown

## Tools Required

Ratchet	Drill
Socket, 7mm	Drill bit, 3/32"
Torx bit, T-15	Fishwire
Flathead screwdriver	Panel trim removal tool

## WARNING

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

## Product Photo



## Included Parts



## 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.

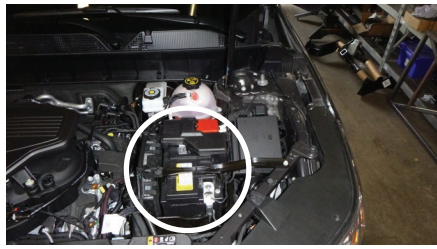
## Maintenance

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 in the engine compartment on the driver's 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 2

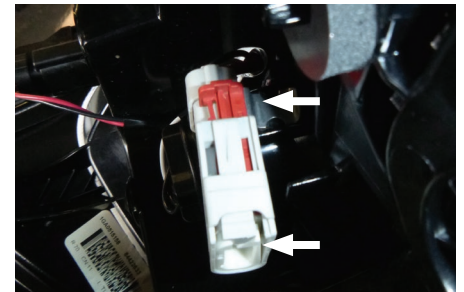
Open the hatch. Remove the two fastener covers using a small flathead screwdriver. Using a 7mm socket, remove the taillight fasteners.



### Step 3

Remove the taillight by pulling straight rearward. Open the red locking tab by pulling out and applying pressure to the lock. This will allow the connectors to come apart. Separate the connectors from the taillight housing taking care not to damage the locking tabs. Set the taillight aside.

Repeat Steps 2 and 3 on the other side of the vehicle.



### Step 4

Remove the two T-15 Torx screws from the inner fender. Using a plastic or nylon panel trim removal tool, loosen the wheel well trim push fasteners until you clear the bumper cover.

Loosen the bumper cover from the body all the way up to the rear taillight.



### Step 5

On the driver's side, insert the RV harness end with yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.

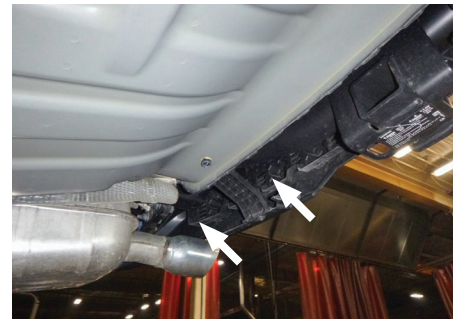
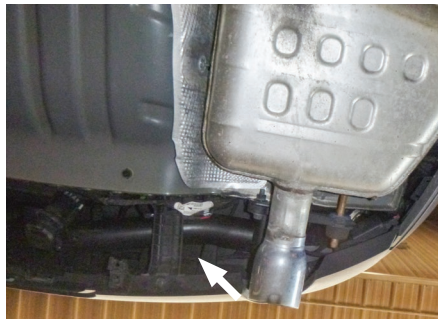
Route the yellow wire between the vehicle body and bumper cover. The RV harness should follow the same route the vehicle factory harness follows under the bumper cover.



### Step 6

From under the rear bumper, route the RV harness end with green wire along the backside of the bumper cover from the driver's side to the passenger's side. Use cable ties as needed, but do not completely tighten, allowing for adjustment later.

Repeat steps 4 and 5 on the passenger side using the harness end with the green wire.



### Step 7

Locate a suitable grounding point near the connector such as an existing screw with nut in the vehicle frame or drill a 3/32" pilot hole for the provided screw. The area should be free of rust, dirt and paint. Secure the white ground wire using the ring terminal and provided screw.

#### **CAUTION**

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

### Step 8

Connect the taillights to the custom harness. This is for testing purposes only and the taillights should be removed once this test is complete.

#### **NOTICE**

Once the RV harness is installed, verify that the harness is functioning by attaching the 4-way flat to any vehicle with functioning taillights. The taillights on the vehicle to be towed should function along with the taillights on the vehicle that is powering them.

### Step 9

Reinstall the bumper cover, wheel well trim and taillights.

### Step 10

Route the 4-way flat between the muffler on the driver's side and the body of the vehicle up to the back side of the rear wheel well. Continue routing above the rear drive line suspension and the bottom of the vehicle floor to the rear of the fuel tank. Use cable ties to secure the wires. Do not tighten, allowing for adjustment later.



### Step 11

Route the harness wires between the fuel tank and the driver's side sub frame up to the back of the front tire.



## Step 12

From the engine compartment on the driver's side, run a fishwire down between the inner and outer fender. The fishwire will come out at the back of the front tire.

### How to Fishwire

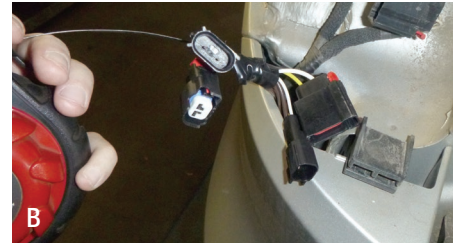
**A)** Fish wire is a way to push or pull an electrical wire through a blind hole. Make sure the wire is long enough to stick out on the other side.

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 13

Route the wire between the vehicle body and the engine mount. Attach it to the fishwire and pull the 4-flat up into the engine compartment.



## Step 14

Route the 4-flat under the rubber hood-seal, and along the driver's side front fender to the back-side of the head light and mount it there.



## Step 15

Pull all of the excess wire so that it is not loose. Do not pull it too tight, this can cause unnecessary strain on the wire and could cause a breakage over time. After removing all slack from the 4-flat wire, tighten any cable ties and add as needed. Use a cable tie to fasten any excess wire to a solid spot along the driver's 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.