

# INSTALLATION MANUAL



## Level of Difficulty

Moderate

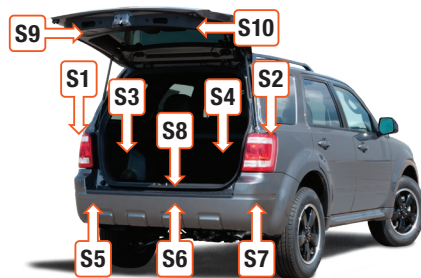
Installation difficulty levels are based on time and effort involved and may vary depending on the installer level of expertise, condition of the vehicle and proper tools and equipment.

## 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, 12mm	Drill bit, 3/32"
Socket, 15mm	Fishwire
Flathead screwdriver	Socket extension
Utility knife	Electrical tape
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.

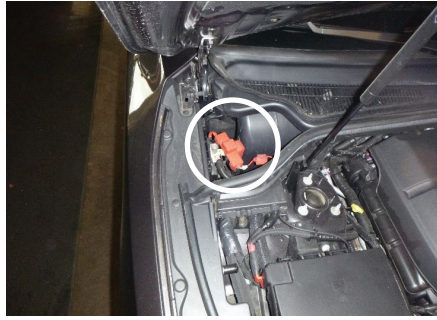
## Maintenance

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

### Step 1

Locate the vehicles battery in the engine compartment on the passenger 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 and remove the two fastener covers with a small, flat blade screwdriver.

Open the vehicle's rear hatch. Starting on the driver side, remove the two taillight fastener covers with a small, flat blade screwdriver



### Step 3

Remove the taillight by pulling it straight rearward. Locate the vehicle's taillight wiring connectors. The connectors will be similar to those on your new custom wiring product. Separate the connectors from the taillight housing taking care not to damage the locking tabs. Set the taillight aside.



### Step 4

Repeat Steps 2 and 3 on the passenger side.

## Step 5

On the driver side, with the taillight removed, use a fishwire to drop down through the opening so the fishwire comes out the underside of the vehicle.

Locate the end of the RV harness with the yellow wire and route it up through the opening of the removed taillight. Insert the RV harness end with yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.

### 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 6

Repeat Step 5 on the passenger side using the RV harness end with the green wire. From under the rear bumper, zip-tie as needed. Do not completely tighten, allowing for adjustment later.

## 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

If all functions test out, reinstall all removed items.

### Step 10

Route the 4-flat of the RV harness from the rear of the vehicle, over the top of the rear drive-line suspension, along the body frame to the back of the front tire. Use zip ties to secure the harness in place.

Do not tighten, allowing for later adjustment.



### Step 11

Route the 4-flat up to the rear of the front tire. From the engine compartment under the hood, on the driver's side, run a fishwire down between the inner and outer fender. The wire will come out at the back of the front tire.



### Step 12

Route the wire between the body and the engine mount. Attach to the fishwire and pull the 4-flat up into the engine compartment. Route the 4-flat along the driver side front fender to an accessible mounting location in front of the vehicle.



### Step 13

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.