

INSTALLATION MANUAL

Level of Difficulty

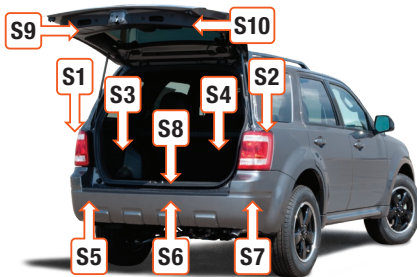
Easy

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	Panel trim removal tool
Socket, 8 mm	Flathead screwdriver
Socket extension	Drill
Torx bit, T-15	3/32" Drill bit

⚠ 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.

Product Registration and Warranty

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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.

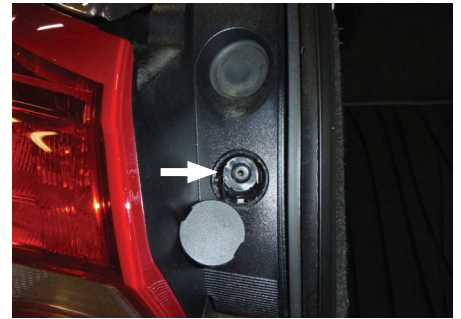


Step 2

Open the vehicle's trunk

Use a small screwdriver to pry the fastener cover off. Use the T-15 Torx socket to remove the fastener.

Repeat on the other side of the vehicle.

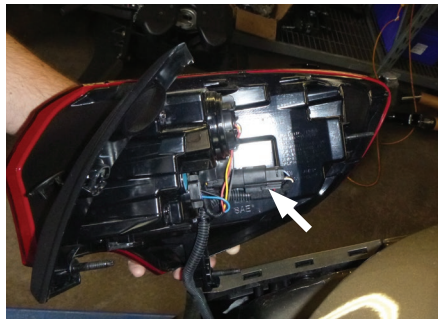


Step 3

Remove the taillight by pulling straight back. Loosen the alignment tabs by wiggling them back and forth. 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 on the other side of the vehicle.



Step 4 - How to use fish wire

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 5

Starting on the driver side, run a fish wire down between the body and the bumper cover. From under the vehicle, locate the end 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.

Insert the custom RV harness into the factory wiring. Make sure the connectors are fully inserted with the locking tabs in place.

Reinstall the taillight back into its housing.



Step 6

From under the vehicle, route the harness end with the green wire along the back side of the bumper. Zip tie in place, making sure the wires will not come into contact with moving or hot objects.

Repeat steps 5 and 6 with the green wire on the passenger side of the vehicle.



Step 8

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 (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

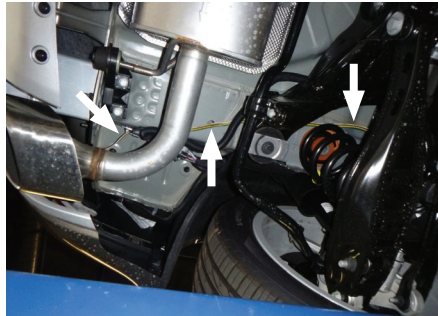
Check for miscellaneous items that may be hidden behind or under any surface before drilling to avoid damage and/or personal injury

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.

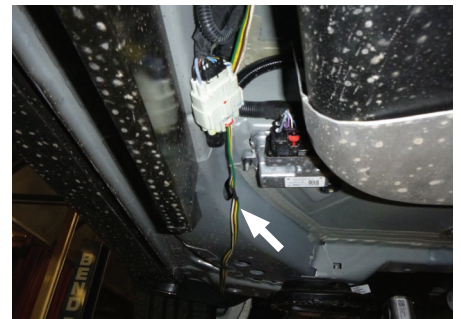
Step 9

Route the 4-flat wire above the rear drive line and suspension mounts and the body. Zip tie in place, making sure the wires will not come into contact with moving or hot objects.



Step 10

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



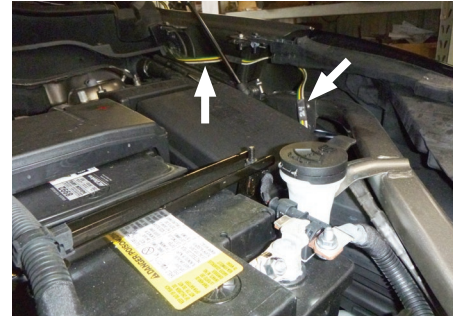
Step 11

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 and attach to the fish wire. Pull to the top side of the engine compartment.



Step 12

Route the 4-flat wire along the driver-side inner fender. Zip tie as needed to the front of the vehicle.



Step 13

Route between the headlight and the windshield washer fluid tank. Mount the 4-flat right next to the vehicle ground lug on the driver side.



Step 14

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.