

# INSTALLATION INSTRUCTIONS

**⚠ WARNING: DO NOT EXCEED PRODUCT RATING OR TOW VEHICLE LAMP LOAD RATING, WHICHEVER IS LOWER**

## APPLICATIONS

Make	Model
Subaru	XV Crosstrek, manual Transmission / excl. Hybrid

## WIRING LOCATION GUIDE

### SUVS, MINI & FULL-SIZED VANS (S)

Representative vehicle shown below

**S1** - Behind driver side taillight housing

**S2** - Behind passenger side taillight housing



## NOTICE

All steps must be followed to ensure the towed-vehicle RV harness will function properly. Once installed, test for proper function by connecting a properly wired tow vehicle.

## TOOLS NEEDED

Ratchet	3/32" drill bit
Ratchet extension	T-30 Torx bit
10mm socket	Phillips screwdriver
12mm socket	Flat blade screwdriver
1/4" socket	Cutting tool
Panel trim removal tool	Fish wire

## **⚠ WARNING**

The battery connection must be fuse-protected, 10-amp max. Exceeding the product rating can cause loss of warranty, overheating and potential fire. Do not exceed product rating or tow vehicle lamp load rating, whichever is lower.

**Signal Circuits** - 6.0 amps per side

**Tail / Running Circuits** - 6.0 amps total

Check vehicle owner's manual or contact the vehicle manufacturer for more information.

# INSTALLATION / SAFETY INSTRUCTIONS

## Step 1

Open the rear hatch (A).

## Step 2

Starting on the outside of the vehicle on the driver side, remove the two fasteners that are securing the taillight in place (B).

## Step 3

Remove the taillight by gently pushing rearward (C). **Note:** Use a soft pry tool on the leading edge of the taillight to help removal.

## Step 4

Locate the vehicle taillight wiring harness connectors behind the taillight (D). The connectors will be similar to those on the RV wiring harness. Separate the connectors from the taillight housing taking care not to damage the locking tabs (E). Set the taillight aside.

## Step 5


Undo the hooks on the lower trim panel that are securing the trim panel in place (F). Gently pull back on the lower trim panel to allow enough room to route the RV Harness from under the vehicle, up behind the lower trim panel and to the taillight (G).

## Step 6

From underneath the vehicle, route the RV wiring harness end with the yellow and brown wires up along the lower trim panel to the removed taillight (H). Insert the RV wire harness end with the yellow and brown wires between the separated vehicle and taillight connectors. Make sure the connectors are fully inserted with locking tabs in place. Reinstall the taillight.

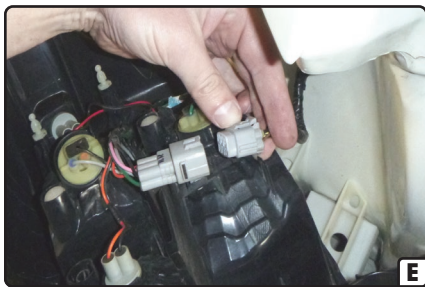
## Step 7

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.

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

## Step 8


Route the RV wiring harness end with green and brown wires back along the rear bumper to the passenger side. Repeat steps 2-6 on the passenger side using the harness end with the green and brown wires. Use the provided cable ties to secure any loose wires.



# INSTALLATION / SAFETY INSTRUCTIONS

## Step 9

Route the trailer-side 4-flat of the RV harness on the underside of the vehicle along the brake lines to the front of the towed vehicle. Route the harness from the rear of the vehicle to the front along the brake lines. Some trim cover panels may need to be removed to route the 4-flat under the vehicle (I,J,K,L,M,N,O). Secure with cable ties along the way.


 **WARNING:** Avoid areas that contain moving parts or could cut, pinch or burn the wires when routing the 4-flat harness to the front of the vehicle. Failure to follow these warnings may cause property damage, personal injury or loss of life.

## Step 10

Open the hood. From inside the engine compartment, route a fish wire down and over the top of the driver-side wheel well. It may be necessary to remove additional clips and / or screws from the wheel well cover. Secure the 4-flat to the fish wire at the other side of the driver-side front wheel well and pull up the 4-flat into the engine compartment.

## Step 11

Locate a suitable flat position to mount the trailer-end 4-flat bracket (O). Using the bracket as a template, mark the two drill locations and drill two 3/32" holes. Attach the bracket using the two provided screws.

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

## Step 12

With the 4-flat extension plugged into the RV harness on one end and the RV on the other, perform a function test. These functions will only work on the brake / taillight combination lamp. When not in use store the 4-flat extension in the vehicle.

4-flat harness color codes:

White - Ground    Green - Right Turn / Brake  
Brown - Taillights    Yellow - Left Turn / Brake

## Step 13

If all functions work on the towed vehicle, reinstall all items removed during install. Install the provided 4-flat dust cover to help prevent corrosion. Use cable ties as needed to secure any loose wires.

**Note:** This RV harness also includes a connection point labeled "FOR TRAILER TOW USE ONLY: CONVERTER #58920 REQUIRED." If you decide to leave your RV harness installed on the vehicle at all times and want to tow a trailer, plug in the 4-flat harness (#58920 sold separately) and you are ready to tow.

