

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.

Electrical Ratings

Signal circuits	3.0-amps per side
Tail / Running Circuits	6.0-amps total

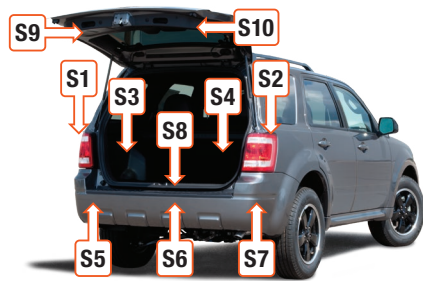
Check vehicle owner's manual or contact the vehicle manufacturer for more information.

Wiring Location(s)

S1 and S5

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

Panel trim removal tool	Wire crimper
Small flathead screwdriver	Wire stripper
Utility knife	--

⚠ WARNING

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

The battery connection must be fuse-protected, 10-amp max. Exceeding the product rating can cause loss of warranty, overheating and potential fire.

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.

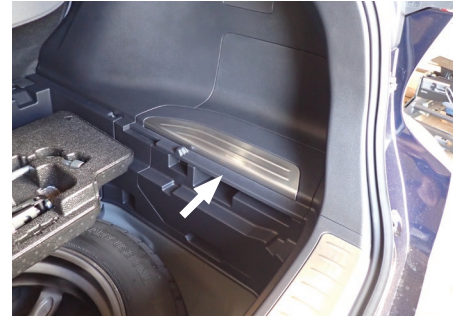
Maintenance

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

Step 1

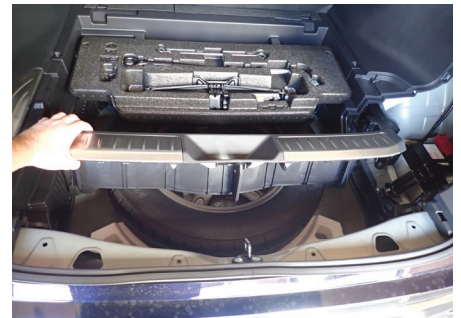
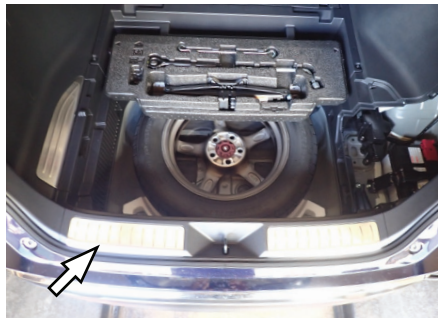
Open the hatch and remove the floor coverings to expose the spare tire. On the passenger side of the vehicle, remove the side trim color cover and the side wall cover, exposing the battery.

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



Step 2

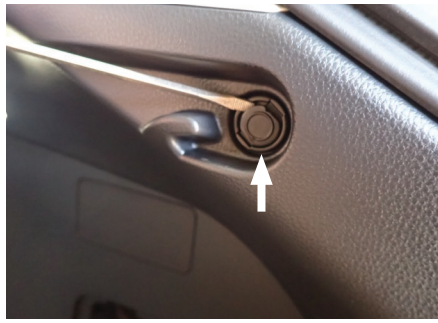
Use a panel trim removal tool to loosen the skid plate. Remove the skid plate by pulling straight up.



Step 3

Using a small flat head screwdriver, remove the push fastener in the sidewall. Loosen the sidewall trim with the panel trim removal tool.

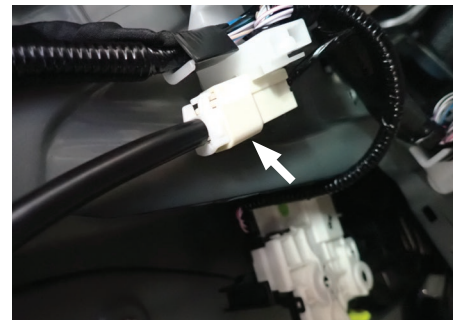
Repeat this step on the other side of the vehicle.



Step 4

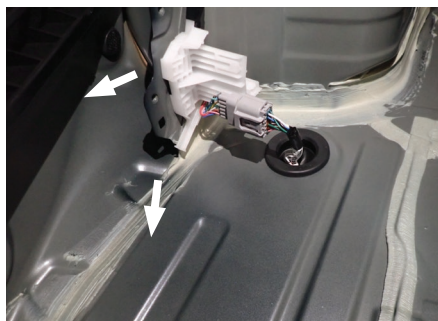
On the driver side, locate the vehicle taillight wiring harness connectors. The connectors will be similar to those on the custom wiring harness. Separate the connectors from the taillight housing taking care not to damage the locking tabs. Insert the custom wiring harness end with red and brown wire between the separated connectors.

Make sure the connectors are fully inserted with locking tabs in place.



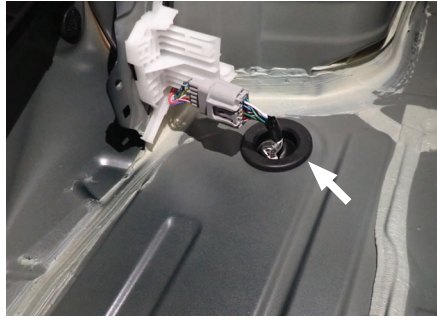
Step 5

Locate a flat spot on the side wall near the floor. Adhere the black converter box using the provided double-sided tape.



Step 6

Remove the grommet just behind the rear tire wheel well and route the connector with the green and yellow wire through.



Step 7

On the driver side, locate the turn signal housings under the rear of the vehicle. The connectors will be similar to those on the custom wiring harness. Separate the connectors from the turn signal housing taking care not to damage the locking tabs. Insert the custom wiring harness end with green and yellow wire between the separated connectors.

Make sure the connectors are fully inserted with locking tabs in place.



Step 8

Locate the grommet behind the taillight where the vehicle's taillight wiring passes through from inside the cabin to the taillight. Remove the grommet and cut a slit large enough to route the new custom wiring end through.

Route the custom wiring end with the brown and red wires out through the grommet opening and through the slit in the grommet. Insert the custom wiring end with brown and red wires between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.

Reseat the grommet. Use the provided sealant to seal the cut in the grommet and around all the wires.

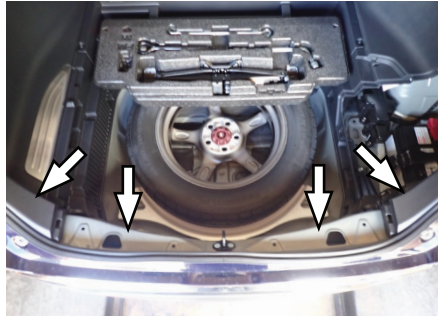


Step 9

Route the black power wire from the vehicle battery as shown on the last page of this manual. Begin routing under the passenger-side sidewall panel, under vehicle skid plate and under the driver-side sidewall panel. Secure any loose wires with the provided cable ties.

NOTICE

Once 12 volt power wire is connected to the harness verify that the harness is functioning by attaching the battery and testing with a test light, 4-flat tester or a functioning trailer.



Step 10

When in use, route the 4-flat to the center of the vehicle. When not in use, roll up and store in a convenient, out of the way location. Secure any loose wires with the provided cable ties.

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.

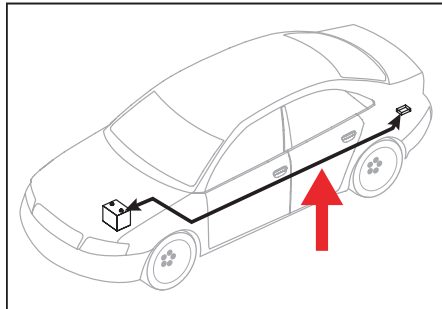
POWERED CONVERTER LEAD INSTRUCTION SHEET

NOTICE

Illustrations are for reference only. Battery location may differ depending on the vehicle.

WARNING

To avoid personal injury or property damage, check for miscellaneous items that may be behind or under any surface before drilling.



NOTICE

1. This converter system is to be used only on 12 volt negative ground systems.
2. Secure power wire to vehicle chassis using cable ties provided.
3. When passing the power wire through sheet metal, use an existing grommet, add a grommet or use silicone to protect the power wire from sharp edges.
4. Overall T-connector design may differ from illustration. The illustration should be used for power lead instruction only. Illustration is not to scale.

WARNING

Route 12 GA wire to vehicle battery location, taking care to avoid any pinch points and hot or rotating components.

