

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

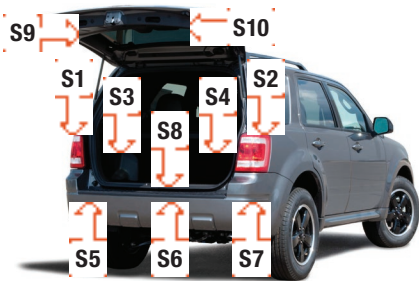
Check vehicle owner's manual or contact the vehicle manufacturer for more information.

Wiring Location(s)

S1 and 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	Wire crimper
Socket, 10mm	Cutting tool
Socket extension	Wire stripper
Panel trim removal tool	Electrical tape
Flathead screwdriver	--

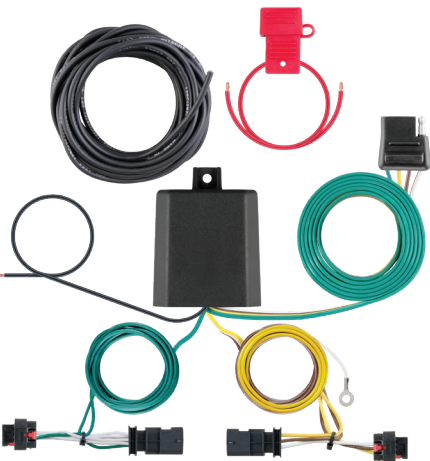
WARNING

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

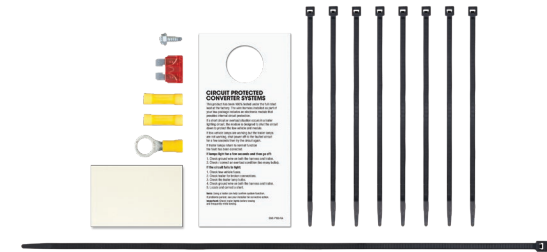
The battery connection must be fuse-protected, 10-amp max. Exceeding the product rating can cause loss of warranty, overheating and potential fire.

Be sure to not lay tools across the positive battery terminal (typically noted with red covers or a red '+' symbol). This can cause a ground to short causing sparks and / or electrical shocks.

Product Photo



Hardware Photo



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 (Sorento)

⚠ WARNING

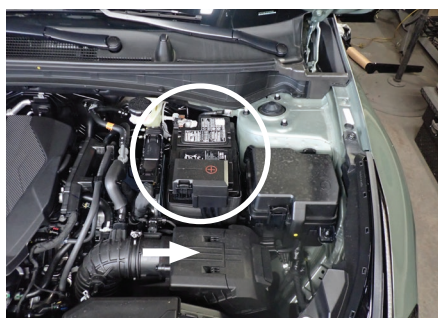
Be sure not to lay tools across the positive terminal (typically concealed with a red cover or a red "+" symbol). This can cause a ground to short causing sparks and/or electrical shocks.

The vehicle battery is internal on this vehicle. The power source for the T-connectors power wire will connect at the fuse panel on the driver side under the hood.



Step 1 (Sportage)

Locate the vehicle's battery in the engine compartment on the driver side and disconnect the negative battery terminal. Be sure to fasten this wire down and away from the battery while completing the installation process.

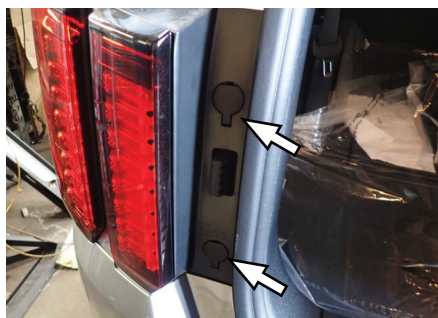


Step 2 (Sorento)

Open the rear hatch and locate the taillight fastener covers. Use a panel trim removal tool to open the covers. Use a 10mm socket to remove the two bolts securing the taillight in place. Remove the taillight by pulling straight back.

Locate the vehicle 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.

Repeat on the other side of the vehicle.



Step 2 (Sportage)

Open the rear hatch and use a panel trim tool to remove the the tail trim covers. Using a 10mm socket, remove the 2 taillight bolts, remove the taillight straight back. Locate the taillight housing, and separate the connectors, taking care not to damage the locking tabs and set the taillight aside in a safe place.

Repeat on the other side of the vehicle.



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.

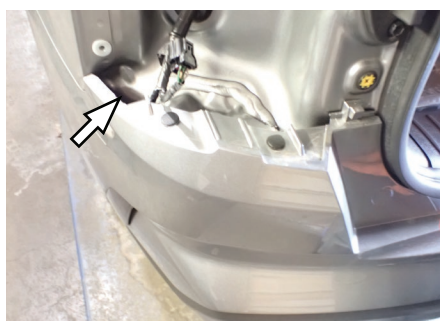
Fish wire could be anything from a cut-up wire hanger, stiff wire, rope or string depending on what is needed for the installation.



Step 3 (All vehicles)

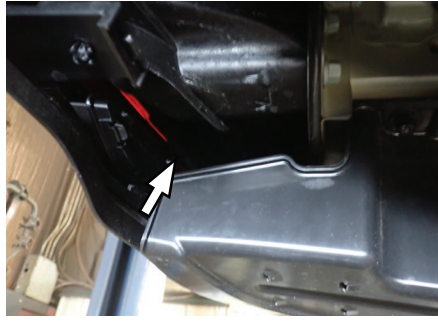
Starting on the driver side, route a fish wire down between the rear opening of the bumper cover and body of the vehicle.

Repeat on the other side of the vehicle.



Step 4 (All vehicles)

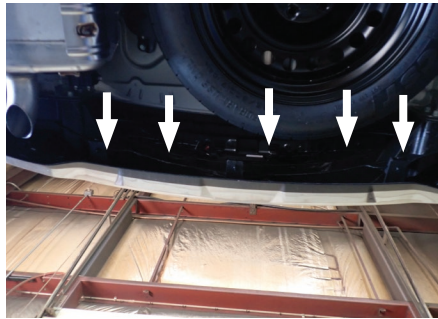
From under the vehicle bumper, attach the harness connector with the yellow wire to the fish wire and pull the harness up to the taillight cavity. Attach the custom harness to the vehicle factory wiring and attach to the taillight. Set the taillight inside the taillight cavity and loosely secure with hardware.



Step 5 (Sorento)

Route the housing with the green wire above the bumper mount and along the bumper to the passenger side of the vehicle. Zip tie as needed along the bumper. Route above the passenger-side bumper mount.

Repeat steps 3 and 4 to the housing with the green wire.



Step 5 (Sportage)

Route the housing with the green wire above the bumper mount and along the bumper to the passenger side of the vehicle. Zip tie as needed along the bumper. Route above the passenger-side bumper mount.

Repeat steps 3 and 4 to the housing with the green wire.



Step 6 (All vehicles)

On the driver side, locate a grounding point 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



Step 7 (All vehicles)

Locate a flat spot on the vehicle. Adhere the black converter box using the provided double-sided tape and / or zip ties. Follow the instructions on the last page of this manual to connect power and test.

NOTICE

Once the custom harness is installed verify that the harness is functioning by attaching the 4-flat to any trailer with a functioning lights.

POWERED CONVERTER LEAD INSTRUCTION SHEET

FICHE DE CONSIGNES DU CONVERTISSEUR D'ALIMENTATION

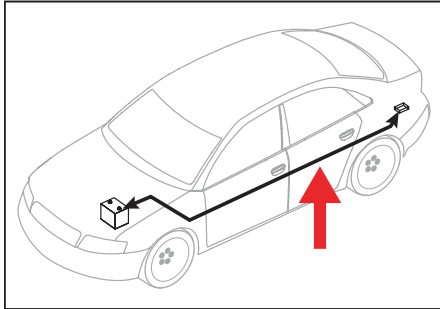
HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

NOTICE AVIS / AVISO

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

Les images ne sont fournies qu'à des fins de référence. L'emplacement de la batterie peut varier en fonction du véhicule.

Las ilustraciones son solo para referencia. La ubicación de la batería puede variar según el vehículo.



WARNING AVERTISSEMENT / ADVERTENCIA

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

Acheminer le câble de calibre 12 à la batterie du véhicule en prenant soin d'éviter les points de pincement et les éléments chauds ou pivotants.

Pase el cable calibre 12 hacia la ubicación de la batería del vehículo, con cuidado de evitar atascos y componentes calientes o giratorios.

WARNING AVERTISSEMENT / ADVERTENCIA

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

Pour éviter les blessures et les dommages matériels, vérifier les divers articles qui peuvent se trouver derrière ou sous la surface avant de percer.

Para evitar lesiones personales o daños materiales, verifique que no haya ningún elemento detrás o debajo de la superficie antes de perforar.

NOTICE AVIS / AVISO

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.

1. Ce système de convertisseur ne doit être utilisé qu'avec une prise de masse de polarité négative de 12 volts.
2. Fixer le câble d'alimentation au châssis du véhicule à l'aide des courroies d'attache de câble fournies.
3. Utiliser un œillet existant, ajouter un œillet ou appliquer du silicone pour protéger le câble d'alimentation des rebords tranchants au moment de le passer à travers la tôle.
4. La disposition générale du connecteur en T peut différer de l'illustration. Celle-ci ne doit être utilisée que pour le convertisseur d'alimentation. L'illustration n'est pas à l'échelle.

1. Este sistema de adaptadores solo se debe utilizar con sistemas con polo negativo a masa de 12 voltios.
2. Sujete el cable de alimentación al chasis del vehículo utilizando los sujetacables suministrados.
3. Al pasar el cable de alimentación por la lámina de metal, utilice la arandela pasacable existente, agregue una arandela pasacable o utilice silicona para proteger el cable de alimentación de los bordes filosos.
4. El diseño general del conector T puede ser distinto de la ilustración. La ilustración solo se debe utilizar para la instrucción del conductor de alimentación. La ilustración no está a escala.

