

Level of Difficulty

Difficult

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

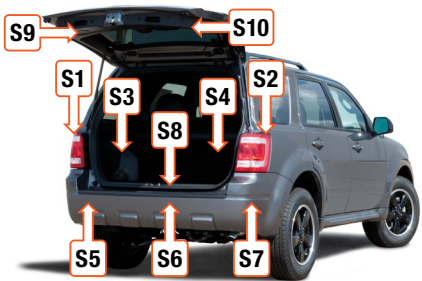
Check vehicle owner's manual or contact the vehicle manufacturer for more information.

Wiring Location(s)

S1, S5, and S7

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	Trim panel tool
Ratchet extension	Wire cutter
10mm socket	Wire stripper
Fish wire	Crimp tool
Phillips screwdriver	Flat head screwdriver

⚠ WARNING

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

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

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

Product 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

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.

⚠ CAUTION

Grounding of the negative cable to a metal item could cause damage to the vehicles electrical system.



Step 2

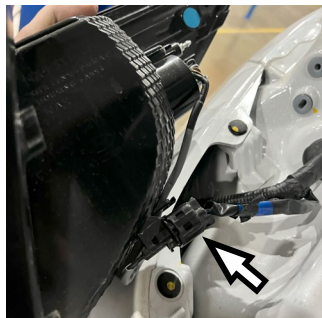
Remove the (2) 10mm bolts holding the driver side taillight in place.

Repeat these steps on the passenger side.



Step 3

Remove the taillight by pulling outwards from the side of the vehicle. Once the taillight is removed, separate the connector from the taillight housing, taking care not to damage the locking tabs. Set the taillight aside and repeat on the other side of the vehicle.



How to Fishwire

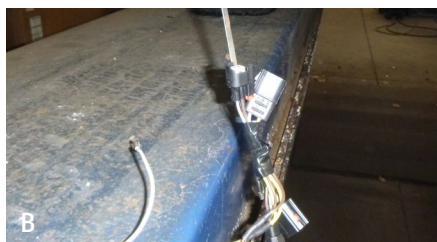
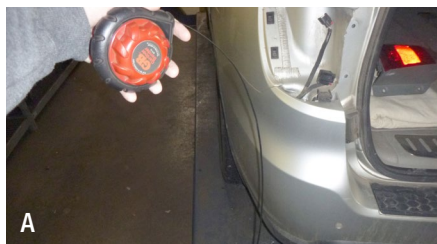
A) Fish wire is a way to push or pull an electrical wire through a blind hole. Make sure the wire is long enough to stick out on the other side.

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 4

Starting from the driver side, fishwire down between the body of the vehicle to under the vehicle. Attach the housing with the brown wire to the fish wire and pull up to the taillight opening.

Note: Ensure the connector contains the brown and red wires before fishwiring.

Locate the vehicle taillight wiring connectors. The connectors will be similar to those on your new custom wiring product. Connect the custom harness end with the brown wire and attach the connectors between the taillight harness and the factory connectors that were separated in step 3.

Reinstall the taillight into the mount.



Step 5

From underneath the vehicle, locate the turn function connector housings in the rear bumper cover on each side. Disconnect the black connector housing on both the right and left sides of the bumper cover.

Note: Connectors can be difficult to access. Removal of other components may be required for ease of installation.



Driver side



Passenger side

Step 6

On the driver side, locate the vehicle turn signal wiring connector. The connectors will be similar to those on your new custom wiring product. Locate the custom harness end with the yellow wire and attach the connectors between the custom harness and the factory connectors that were separated in step 5.



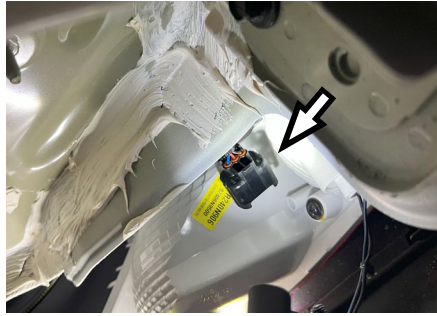
Step 7

Route the green wire to the bumper and down to the passenger side. Secure any loose wires with the provided cable ties.



Step 8

On the passenger side, locate the vehicle turn signal wiring connector. The connectors will be similar to those on your new custom wiring product. Locate the custom harness end with the green wire and attach the connectors between the custom harness and the factory connectors that were separated in step 5.



Step 9

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 10

NOTICE

Always mount module with the epoxy side down to prevent any excessive water build up and to prevent any debris collection.

Locate a flat clean surface that is out of the path of spray and debris from the rear wheels and road. Using the supplied 2-sided tape and / or zip ties, secure to the vehicle. Route the black power wire from the vehicle battery as shown on the provided 'Powered Converter Lead Instruction Sheet'.

⚠ WARNING

Failure to mount the box in a protected area can cause loss of warranty, product failure, overheating and potential damage.

Step 11

Route the black power wire from the vehicle battery as shown on the included CME-PCL-INS sheet.

Step 12

Route the 4-flat to the center of the vehicle. Secure any loose wires with the provided cable ties.

Step 13

Reconnect the negative battery terminal. Install the provided 4-flat dust cover to help prevent corrosion. Reinstall all removed items in the reverse order of disassembly to complete install.

NOTICE

Once the custom harness is installed, verify that the harness is functioning by attaching the 4-Flat to any trailer with functioning lights or use one of the following: 4-Flat tester/test light/multimeter.

POWERED CONVERTER LEAD INSTRUCTION SHEET

FICHE DE CONSIGNES DU CONVERTISSEUR D'ALIMENTATION

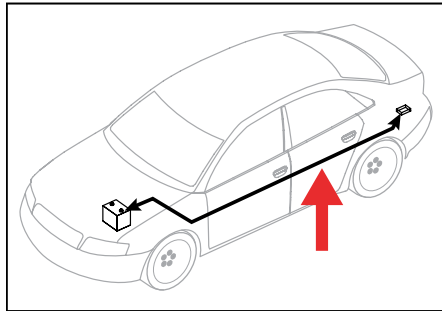
HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

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.

