

# 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	7.5-amps per side
Tail / Running Circuits	7.5-amps total

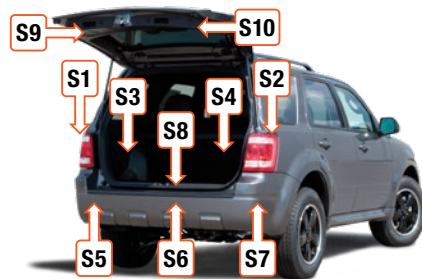
Check vehicle owner's manual or contact the vehicle manufacturer for more information.

## Wiring Location(s)

S3 and S4

## 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, 10 mm	Electrical tape
Phillips screwdriver	Wire crimper
Flathead screwdriver	Wire stripper
Cutting tool	--

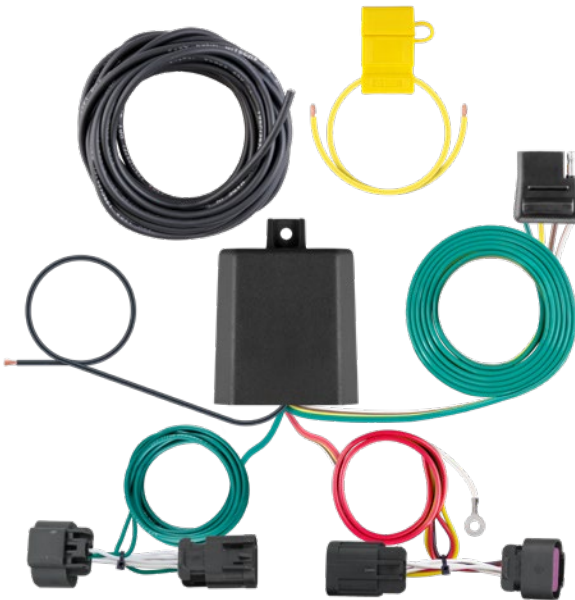
## WARNING

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

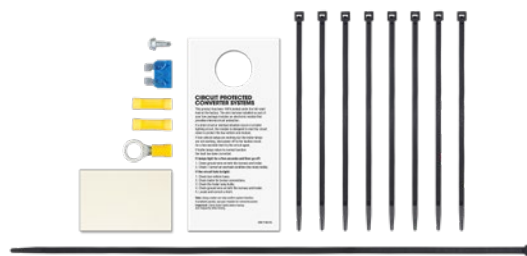
The battery connection must be fuse-protected, 15-amp max. Exceeding the product rating can cause loss of warranty, overheating and potential fire.

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.

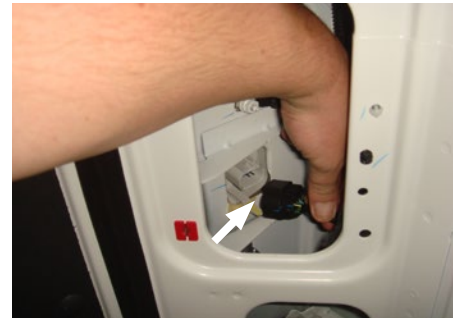
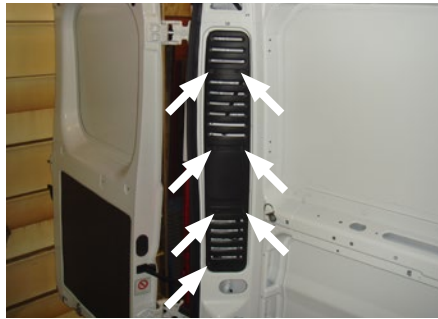
### Step 1

Locate the vehicle battery under the driver-side floor panel. Turn the six fasteners securing the floor panel and remove the panel to gain access to the battery. Disconnect the negative battery terminal.



### Step 2

Open the rear cargo doors. Starting on the driver side, remove the seven Phillips screws from the plastic cover to 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.



### Step 3

Insert the custom wiring harness end with yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.



### Step 4

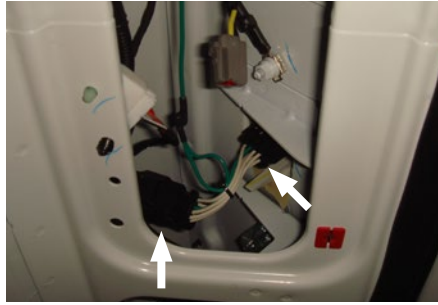
Locate a suitable grounding point near the connector such as an existing screw with nut in the vehicle frame or drill a 3/32" pilot hole for the provided screw (10 mm grounding point shown).

The area should be free of rust, dirt and paint. Secure the white ground wire using the ring terminal by removing the nut, installing the ring terminal and replacing the nut.



### Step 5

Route the custom wiring harness end with the green wire to the passenger side through the opening that runs up and over the rear cargo doors. Repeat steps 2 through 3 on the passenger side using the custom wiring harness end with the green wire.



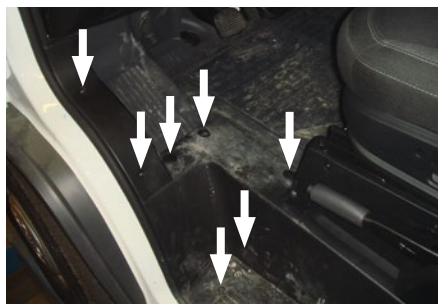
### Step 6

From inside the vehicle on the driver side locate a flat spot on the upper corner inside the rear cargo door frame to adhere the black converter box using the provided double-sided tape.



### Step 7

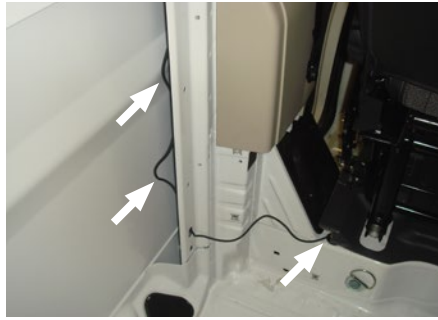
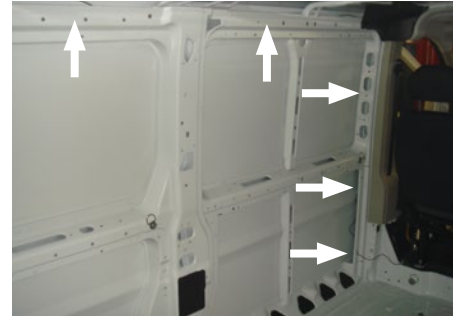
Starting on the backside of the driver seat, remove the Phillips screws from the plastic seat belt trim panel as well as the trim around the driver-side seat and floor. Remove all plastic trim panels.



## Step 8

Route the black power wire from the vehicle battery as shown on the provided 'Powered Converter Lead Instruction Sheet'. Below is a more detailed instruction for this application.

Route the black power wire starting at the wiring harness converter box, along the top of the driver-side cargo area and down along the frame located behind the driver seat. Continue from the cargo area along the bottom of the driver-side seat frame and route the power wire under the floor panel section to the battery.



## Step 9

When in use, route the 4-flat to the center of the vehicle and out of the cargo area. When not in use, roll up and store in a convenient, out of the way location inside the trunk. 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

## FICHE DE CONSIGNES DU CONVERTISSEUR D'ALIMENTATION

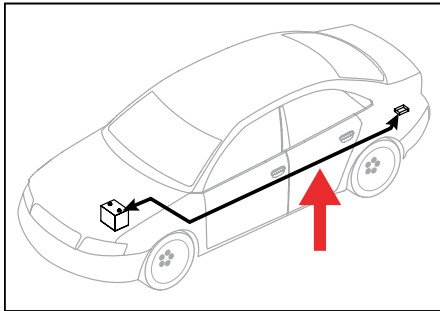
### HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

#### **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.

