

# 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         | 5.0-amps per side |
| Tail / Running Circuits | 7.5-amps total    |

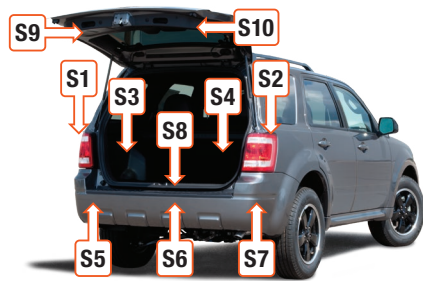
Check vehicle owner's manual or contact the vehicle manufacturer for more information.

## Wiring Location(s)

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 cutter             |
| Socket extension | Wire stripper           |
| Socket, 10mm     | Crimping tool           |
| Socket, 8mm      | Panel trim removal tool |
| Utility knife    |                         |

## ⚠ WARNING

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

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

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

## 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

Open the rear door of the vehicle. Remove the spare tire access cover. Using the panel trim tool, remove the three (3) push fasteners from the plastic trim panel.

Locate the vehicle battery on the right side of the trunk compartment. Disconnect the negative battery terminal. Be sure to fasten this wire down and away from the battery while completing the installation process.



## Step 2

Using the panel trim tool, remove the taillight fastener from the trim cover.

Using a 10mm socket, remove the two (2) nuts securing the taillight in place on each side.

From the inside of the vehicle, open the side panel hatches. Using a 10mm socket, remove one (1) 10mm bolt from each side of the vehicle. Pull the taillight straight back and remove.





### Step 3

Remove the taillight and separate the connectors, taking care not to damage the locking tabs. Set the taillight off to the side.

Repeat on the other side of the vehicle.



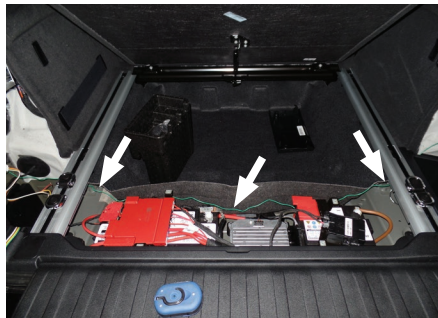
### Step 4

From the access panel on the driver side, locate the vehicle taillight wiring connectors routed out to the taillight cavity. Locate the housing with the yellow wire on the custom harness. Reroute the custom harness connector through the taillight cavity and attach it to the taillight. Route the converter to the bottom of the access panel.



### Step 5

Route the green wire over to the passenger side of the vehicle past the battery opening and through the passenger side access panel into the taillight cavity. Connect it to the vehicle taillight.



### Step 6

Locate a flat spot inside the vehicle, near the taillight. Adhere the black converter box using the provided double-sided tape.

Route the black power wire from the vehicle battery as shown on the provided 'Powered Converter Lead Instruction Sheet'.



### Step 7

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 8

Route the 4 flat over to the floor board storage area for storage. Replace all removed items in reverse of removal. Store the 4 flat under the floor board area when not towing, and route it out of the vehicle hatch making sure the wires do not come in contact with the hatch locking mechanism when in use.

#### **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.

# POWERED CONVERTER LEAD INSTRUCTION SHEET

## FICHE DE CONSIGNES DU CONVERTISSEUR D'ALIMENTATION

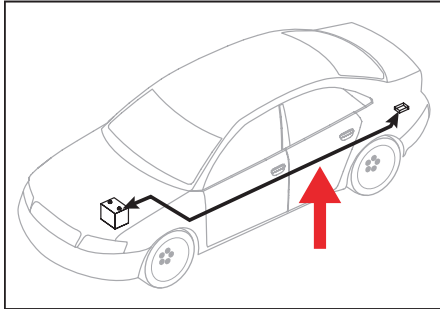
### HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

#### 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.

