

# 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

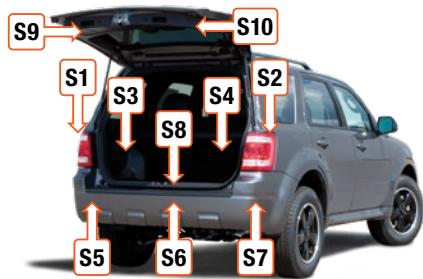
Check vehicle owner's manual or contact the vehicle manufacturer for more information.

## 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	Cutting tool
Socket, 10mm	Wire crimper
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.

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

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

Open the rear hatch and locate the taillight trim. Use your fingers or a trim tool loosen the push fasteners by pulling out to the rear and towards the middle of the vehicle. Using a 10mm socket, remove the three taillight fasteners. Remove the taillight by pulling straight back. Locate the taillight housing and separate the connectors taking care not to damage the locking tabs. 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

Route a fish wire down between the bumper cover in the further rear opening of the bumper cover and the body of the vehicle.

Repeat on the other side of the vehicle.



### Step 4

Starting on the driver side, locate the housing with the green wire on the custom wiring harness. From under the vehicle bumper attach this to the fish wire and pull the harness up to the taillight cavity. Attach the custom wiring harness to the vehicle factory wiring and attach to the taillight.

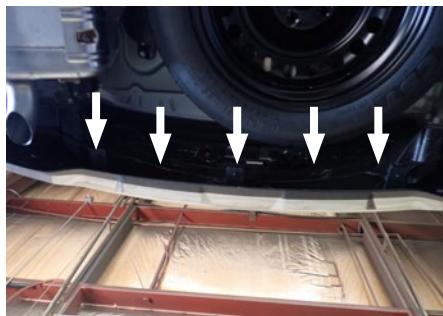
Set the taillight inside the taillight cavity but do not completely install.



### Step 5

Route the housing with the yellow wire above the bumper and zip tie as needed along the bumper.

Repeat step 4 on the harness end with the yellow wire.



### Step 6

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

Locate a flat clean surface that is out of the path of spray and debris from the rear wheels and road. Adhere the black converter box using the provided double-sided tape. Failure to mount the box in a protected area can cause loss of warranty, product failure, overheating and potential fire.

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## Step 8

Route the black power wire from the vehicle battery as shown on the provided 'Powered Converter Lead Instruction Sheet' on the last page of this manual.

### **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.

When in use, route the 4-flat with the center of the vehicle, and out of the hatch to the trailer be sure to stay clear of the hatches latching mechanism. When not in use roll up and store in a convenient, out of the way location. Secure any loose wires with 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.

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# POWERED CONVERTER LEAD INSTRUCTION SHEET

## FICHE DE CONSIGNES DU CONVERTISSEUR D'ALIMENTATION

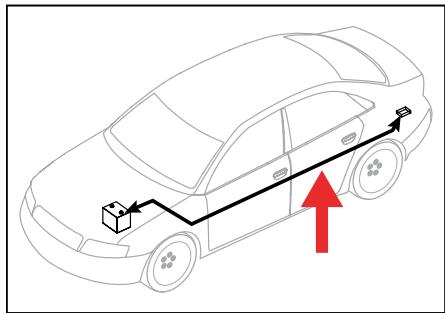
## HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

### 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.

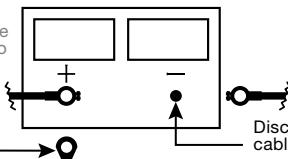
1. Este sistema de adaptadores solo se debe utilizar con sistemas con polo negativo a masa de 12 voltios.

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.

**Vehicle battery**  
Batterie du véhicule  
Batería del vehículo



Use ring terminal for battery connection

Utiliser une cosse à anneau pour effectuer la connexion à la batterie

Utilizar el terminal de anillo para la conexión de la batería

Fuse holder with 15 amp fuse max (install fuse after all other steps are complete)

Porte-fusible avec fusible de 15 A max (installer le fusible après avoir effectué toutes les autres étapes)

Portafusible con fusible de 15 A. (instalar fusible una vez completados los otros pasos)

Green - Right turn

Red - Brake

Yellow - Left turn

Brown - Taillight

Vert - Clignotant droit

Rouge - Frein

Jaune - Clignotant gauche

Brun - Feu arrière

Verde - Giro a la derecha

Rojo - Freno

Amarillo - Giro a la izquierda

Marrón - Luces traseras

**Generic housings shown for reference only**  
Les boîtier génériques ne sont fournis qu'à des fins de référence  
Se muestran carcasa genéricas, solo para referencia

Disconnect negative battery (-) cable before wiring the power wire

Déconnecter le câble négatif (-) de la batterie avant d'installer le câble d'alimentation

Desconectar el cable negativo (-) de la batería antes de conectar el cable de alimentación

Route black wire to positive battery (+)

Conneter le câble noir à la borne positive (+) de la batterie

Pasar el cable negro hacia el polo positivo (+) de la batería

If using the converter as a powered module for a two-wire system, the red brake wire must be grounded

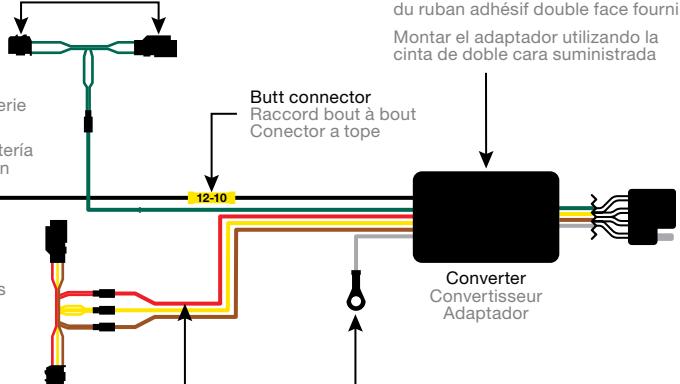
Si le convertisseur est utilisé comme module d'alimentation pour un système à deux fils, le câble de frein rouge doit être mis à la masse

Si se utiliza el adaptador como un módulo energizado para un sistema bifilar, el cable rojo del freno debe estar conectado a tierra

Mount converter using the provided double-sided tape

Installer le convertisseur à l'aide du ruban adhésif double face fourni

Montar el adaptador utilizando la cinta de doble cara suministrada



Attach the ring terminal of the white ground wire to vehicle body using the screw provided (drill 3/32" hole if necessary)

Attacher la cosse à anneau du fil de terre blanc à la carrosserie du véhicule à l'aide de la vis fournie (percer un trou de 3/32 po au besoin)

Conectar el terminal de anillo del cable a tierra blanco a la carcasa del vehículo utilizando el tornillo suministrado (haga una perforación de 3/32" si es necesario)