

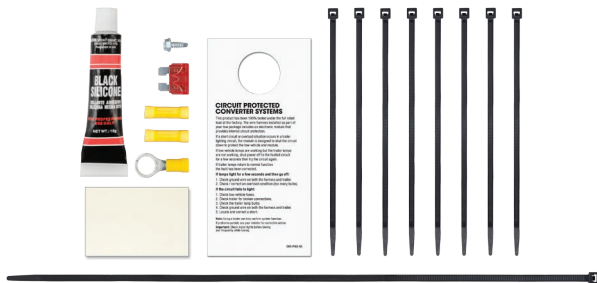
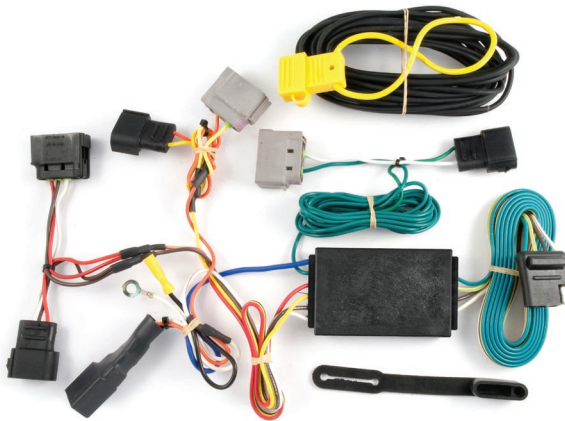
# INSTALLATION INSTRUCTIONS

**⚠ WARNING: DO NOT EXCEED PRODUCT RATING OR TOW VEHICLE LAMP LOAD RATING, WHICHEVER IS LOWER**

## APPLICATIONS

Make	Model
Ford	Windstar

## CUSTOM WIRING HARNESS



## WIRING LOCATION GUIDE

### SUVs, MINI & FULL-SIZED VANS (S)

Representative vehicle shown below

S1 - Behind driver side taillight housing

S2 - Behind passenger side taillight housing



## NOTICE

All steps must be followed to ensure the wiring harness will function properly. Once installed, test for proper function by using a test light or connecting a properly wired trailer.

## TOOLS NEEDED

- Phillips screwdriver
- Flat blade screwdriver
- Panel trim removal tool

## ⚠ WARNING

The battery connection must be fuse-protected, 10-amp max. Exceeding the product rating can cause loss of warranty, overheating and potential fire. Do not exceed product rating or tow vehicle lamp load rating, whichever is lower.

Signal Circuits - 2.1 amps per side


Tail / Running Circuits - 4.2 amps total

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

# INSTALLATION / SAFETY INSTRUCTIONS

## Step 1

Open the tailgate and remove the vehicle taillight assemblies by removing the screws and carefully prying the taillight away from the vehicle (A).

 **CAUTION:** Pry the taillights at the indicated points to avoid damage.

## Step 2

Remove the fasteners securing the rear scuff panel. Remove the scuff panel by pulling out on the bottom and then up (B). Take care not to damage the alignment tabs on the back.

## Step 3

Remove the trim panel to locate the vehicle taillight wiring harness connectors (C,D). 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 4

Beginning on the driver side, disconnect the top, grey connector from the taillight assembly (E). Insert the custom wiring harness end with the yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.

## Step 5

Route the remainder of the custom wiring harness to the passenger side. At the same time push the yellow wire in between the bumper fascia and the vehicle body.

## Step 6


On the passenger side, disconnect the middle, black connector and insert the custom wiring harness end with the red and brown wires between the separated connectors. Make sure that the connectors are fully inserted with locking tabs in place.

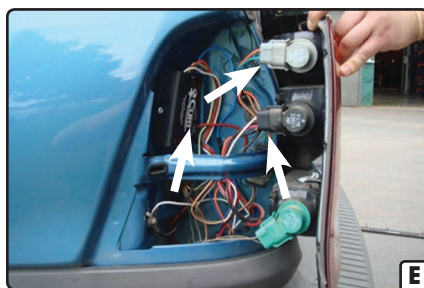
## Step 7

Disconnect the top, grey connector from the taillight assembly (E), and insert the custom wiring harness end with the green & red with white stripe wires between the separated connectors. Make sure that the connectors are fully inserted with locking tabs in place.

## Step 8

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.

 **WARNING:** Check for miscellaneous items that may be hidden behind or under any surface before drilling to avoid damage and / or personal injury.




# INSTALLATION / SAFETY INSTRUCTIONS

## Step 9

Disconnect the negative battery cable. Using the provided ring terminal, attach the fuse holder (with the fuse removed) to the positive battery terminal.

## Step 10

Connect the fuse holder to the black, 12 gauge wire using the provided yellow butt connector. Route the wire rearward from the fuse holder, underneath the vehicle along the frame rail, to the bumper. End at the passenger-side taillight.

 **WARNING:** Make sure to avoid areas that contain moving parts that could cut, pinch or burn the wires when routing the 4-flat harness to the rear of the vehicle. Failure to follow these warnings may cause property damage, personal injury or loss of life.

## Step 11

Attach the 12 gauge wire to the blue wire on the custom wiring harness marked "Battery +" with the provided yellow butt connector.

## Step 12


Open the jack storage compartment cover. From the outside of the vehicle, pull the rubber grommet surrounding the passenger-side wiring harness away from the body. Carefully slit the grommet to allow the wiring harness 4-flat connector and wires to pass through the grommet and into the jack storage compartment. Reseat the grommet into the mounting hole. Retain the 4-flat connector inside the jack storage compartment for future use. Use the provided sealant to seal the cut in the grommet and around all the wires (F,G).

## Step 13

Reconnect the negative battery cable and install the provided 10 amp fuse.

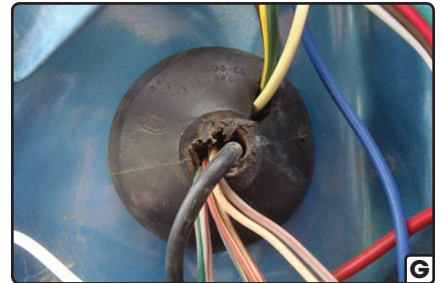
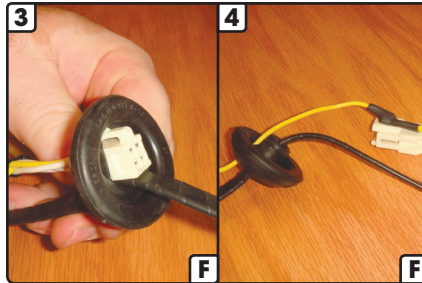
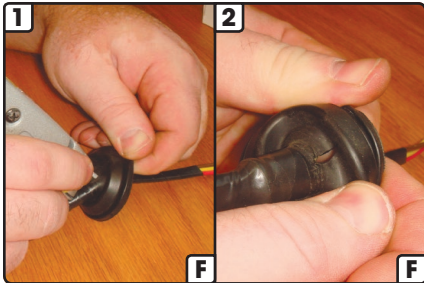
## Step 14

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.

 **WARNING:** Check for miscellaneous items that may be hidden behind or under any surface before drilling to avoid damage and / or personal injury.

## Step 15

Reinstall all items removed during install. Install the provided 4-flat dust cover to help prevent corrosion.



# POWERED CONVERTER LEAD INSTRUCTION SHEET

## FICHE DE CONSIGNES DU CONVERTISSEUR D'ALIMENTATION

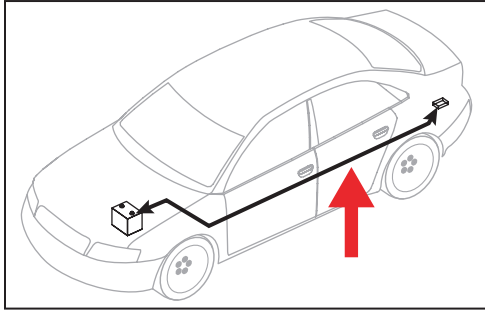
### HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

#### 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.

