

# INSTALLATION INSTRUCTIONS

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

## APPLICATIONS

Make	Model
Kia	Sportage

## WIRING LOCATION GUIDE

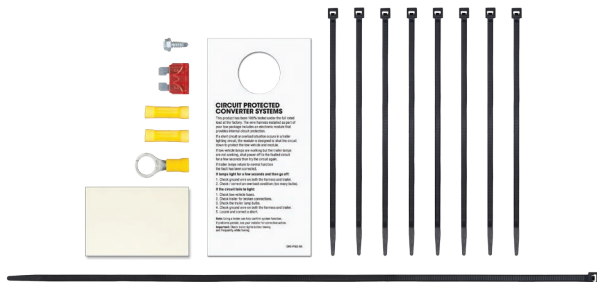
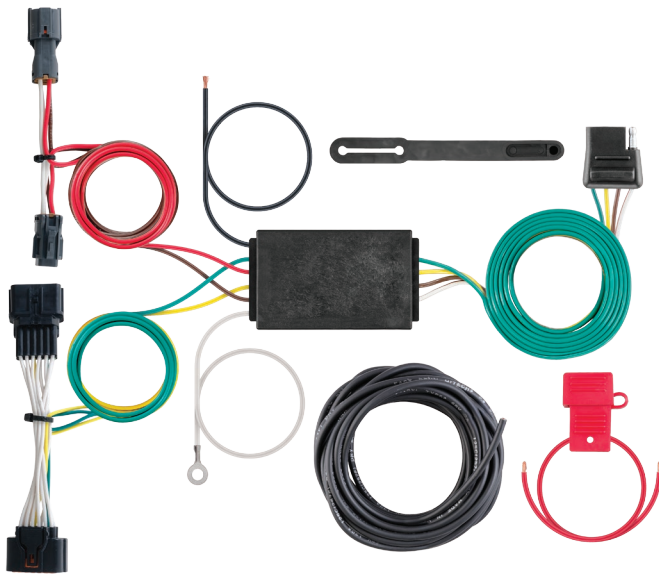
### SUVs, MINI & FULL-SIZED VANS (S)

Representative vehicle shown below

S1 - Behind driver side taillight housing

S5 - Behind driver side rear bumper

## CUSTOM WIRING HARNESS



## 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

Ratchet  
10mm socket  
Phillips screwdriver  
Flat blade screwdriver  
Panel trim removal tool  
Wire stripper  
Wire crimper  
Cutting tool  
Sealant

## ⚠ 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 - 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.

# INSTALLATION / SAFETY INSTRUCTIONS

## Step 1

Locate the vehicle battery on the driver side under the hood and disconnect the negative battery terminal.

## Step 2

Starting on the driver side, underneath the vehicle, behind the rear tire, locate the four plastic clips (A,B). Remove the clips and plastic cover.

## Step 3

Locate the vehicle 12-pin connectors (C). The connectors will be similar to those on the custom wiring harness. Separate the connectors taking care not to damage the locking tabs (D).

## Step 4

Locate the grommet in the floor pan where the vehicle taillight wiring passes through from inside the cabin to the 12-pin connector (E). Remove the grommet from the floor pan.

## Step 5

Open the vehicle tailgate. Remove all trunk floor coverings (F).

## Step 6

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

## Step 7

On the driver side, remove the fasteners and cargo tie down from the side trim panel (J,K,L). Pull back on the side trim panel to locate the removed grommet in the floor pan. Take care not to damage the alignment tabs on the back of the panel.

## Step 8

On the outside of the vehicle, remove the two fasteners securing the taillight in place (N). Remove the taillight by gently pulling rearward.

## Step 9

On the back of the taillight 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 (O).

## Step 10

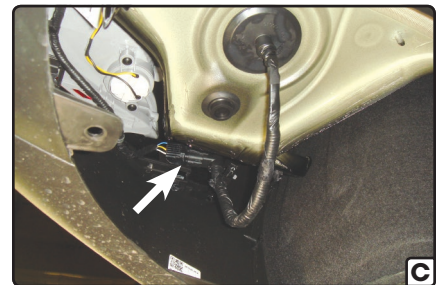
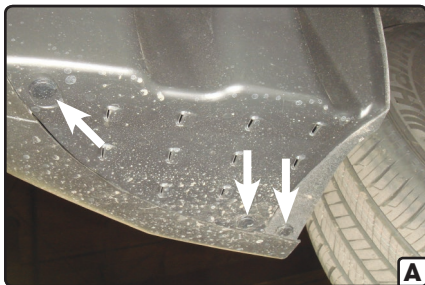
Locate the grommet behind the taillight where the vehicle taillight wiring passes through from inside the cabin to the taillight (P). Remove the grommet and cut a slit large enough to route the custom wiring harness end with the 4-pin connector and red wire through (Q,R).

## Step 11

Route the custom wiring harness end with the red wire out through the grommet opening and through the slit in the grommet. Insert the wiring harness end with red wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.

## Step 12

Reseat the grommet and use sealant (not provided) to seal the cut in the grommet and around all the wires. Reinstall the taillight.



# INSTALLATION / SAFETY INSTRUCTIONS

## Step 13

On the inside of the hatch, behind the side trim panel, locate the removed floor pan grommet. Cut a slit large enough to route the custom wiring harness end with the 12-pin connectors and yellow wire through (R).

## Step 14

Route the custom wiring harness end with the yellow wire out through the grommet opening and through the slit in the grommet. Insert the wiring harness end with yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.

## Step 15


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

## Step 16

Reseat the grommet in the floor pan and use sealant (not provided) to seal the cut in the grommet and around all the wires.

## Step 17

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.

## Step 18

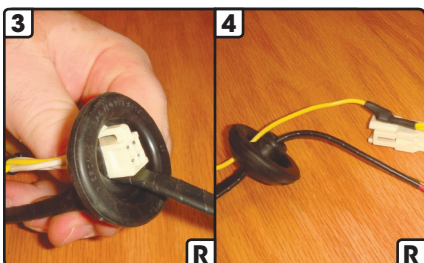
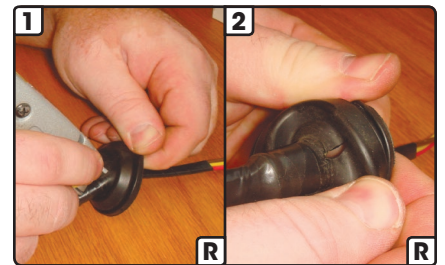
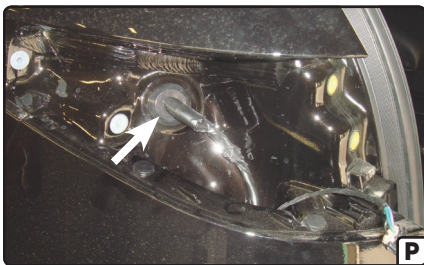
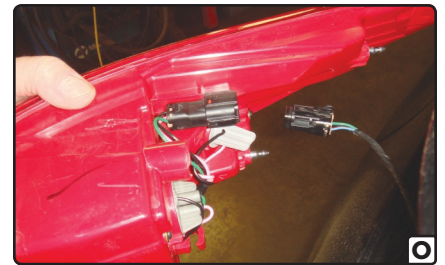
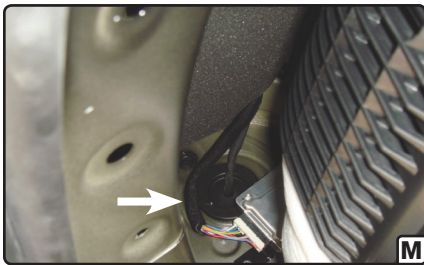
Locate a flat spot inside the vehicle, near the taillight. Adhere the black converter box using the provided double-sided tape.

## Step 19

When in use, route the 4-flat to the center of the vehicle. When not in use, roll up and store in a convenient, out of the way location. Secure any loose wires with the provided cable ties.

## Step 20

Reinstall all items removed during install and 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

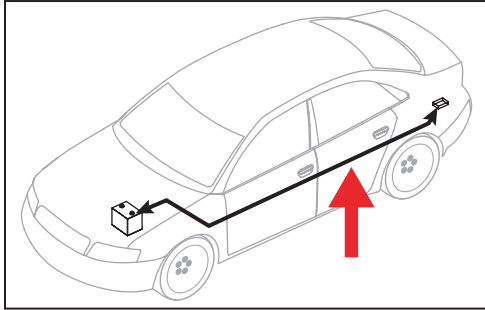
### HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

#### 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.

