

# INSTALLATION INSTRUCTIONS

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

## APPLICATIONS

Make	Model
Hyundai	Santa Fe
Kia	Borrego

## WIRING LOCATION GUIDE

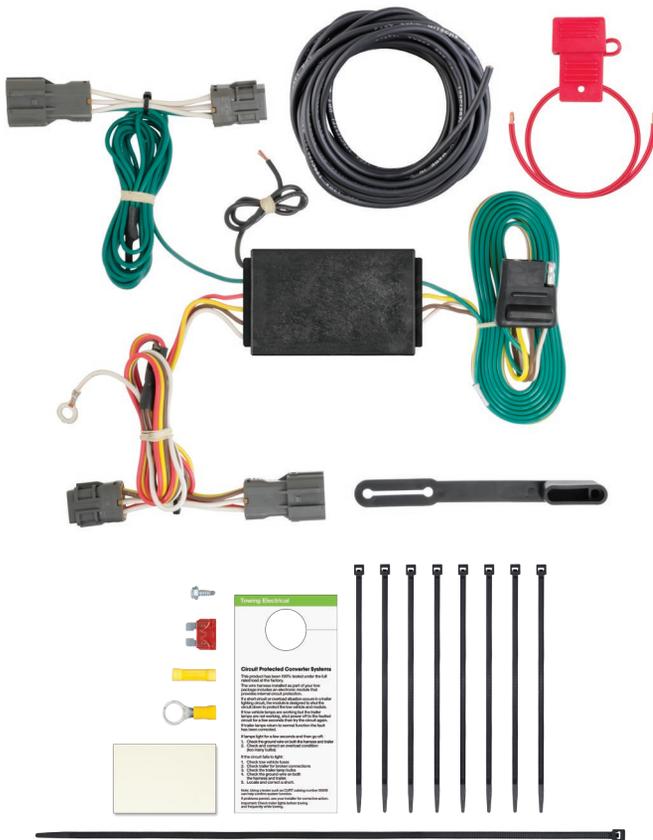
### SUVs, MINI & FULL-SIZED VANS (S)

Representative vehicle shown below

S1 - Behind driver side taillight housing

S2 - Behind passenger side taillight housing

## 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

## ⚠ 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 - 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.

# HYUNDAI INSTALLATION / SAFETY INSTRUCTIONS

## Step 1

Open the vehicle's tailgate. Remove all items and trunk floor coverings from the storage compartment (A,B).

## Step 2

Remove the rear scuff panel by lifting up and then pulling out (C).

## Step 3

Starting on the driver side, remove the two screws securing the taillight housing (D). Gently pull out on the taillight to locate the vehicle's 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 4

Remove the inspection cover and unscrew the cargo hook (C). Pull back on the inner panel to see where the vehicle's wiring harness exits the vehicle to behind the taillight.

## Step 5

To remove the harness, pass through grommet from the body panel (E) and cut a slit in it. Run the wiring harness end of the converter harness with the yellow wire through the slit and pass the connectors through the hole and seat the grommet in the hole it was removed from. Insert the wiring harness end with yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place (F).

## Step 6

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 7

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

**WARNING:** Mount converter module inside the vehicle or in a protected area. Failure to mount the module in a protected area can cause loss of warranty or product failure, including lamp malfunction, overheating or potential fire.

## Step 8

Route the custom wiring harness end with the green wire to the passenger side behind the removed scuff panel. Repeat steps 2-4 on the passenger side using the wiring harness end with the green wire.

## Step 9

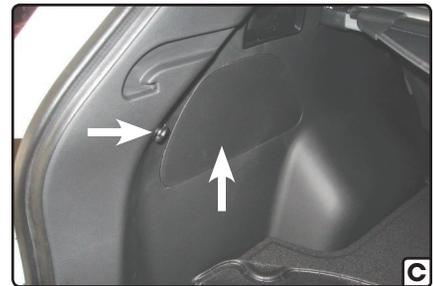
Route the black power wire from the vehicle's battery as shown on the included CME-PCL-INS sheet.

## Step 10

When in use, route the 4-flat to the rear of the vehicle and out the tailgate. 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 11

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



# KIA INSTALLATION / SAFETY INSTRUCTIONS

## Step 1

Open the vehicle tailgate. Remove the two screws securing each taillight housing (A). Gently pull out on the taillights to locate the vehicle's 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 (B).

## Step 2

Inside the vehicle, remove the rear access panel from the driver and passenger sides. Behind the panels, remove the foam patches covering the openings to the taillights (C). Remove the wire grommets between taillight and interior of vehicle (D).

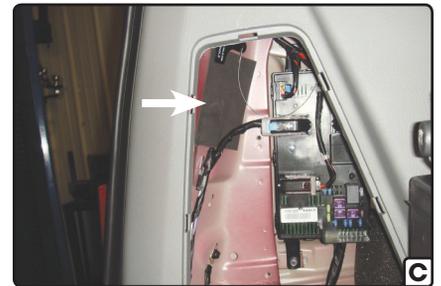
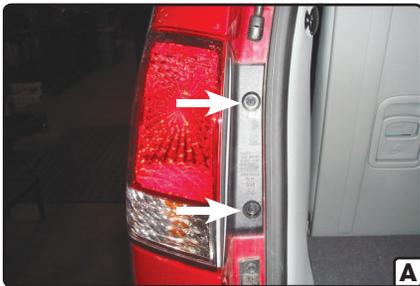
## Step 3

Starting on the driver side, route the custom wiring harness end with the yellow wire out from the inside of the vehicle through the grommet hole. Insert the wiring harness end with yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place. Make a small slit in the grommet. Run the wire through the slit and re-install grommet into opening.

## Step 4

Open the rear cargo area storage compartment remove the foam insert and remove push fasteners covering the bolts in the bottom of the compartment (E,F).

**Continued on reverse side...**



# KIA INSTALLATION / SAFETY INSTRUCTIONS

## Step 5

Remove the 10mm bolts holding the rear cargo compartment in place. Remove the two cargo loops on each side of the rear cargo area (G). Carefully pry open the rear cargo compartment, being sure not to damage the alignment tabs (H).

## Step 6

Remove the rear scuff panel by pulling up (I). On each side of the rear cargo area, remove two phillips head screws holding the rear trim panels in place (J).

## Step 7

On the passenger side, remove the jack and remove three bolts holding the jack mounting bracket in place (K). On both sides of the vehicle, slightly pull out on the rear trim panels.

## Step 8

Route the custom wiring harness end with the green wire out from under the rear trim panel, underneath the removed rear cargo compartment and under the passenger side trim panel. Repeat step 2 on the passenger side using the custom wiring harness end with the green wire.

## Step 9

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

## Step 10

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

## Step 11

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 12

Route the 4-flat out from under the driver side rear trim panel and up between the side of the rear storage compartment and the rear trim panel. 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 13

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

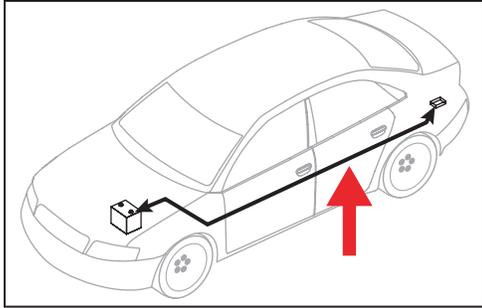
### HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

#### 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.

