

# INSTALLATION MANUAL

## Level of Difficulty

Easy

## Electrical Ratings

Signal circuits	3.0-amps per side
Tail / Running Circuits	6.0-amps total

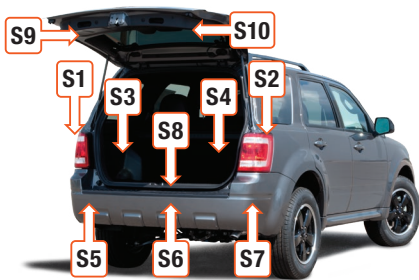
Check vehicle owner's manual or contact the vehicle manufacturer for more information.

## Wiring Location(s)

S1 and S2, T1 and T2

## Wiring Location Guide\* for SUVs and Vans (S)

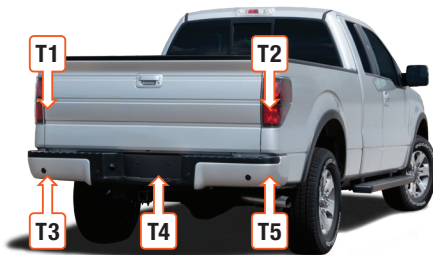
S1	Behind driver side taillight housing
S2	Behind passenger side taillight housing



\* Representative vehicle shown

## Wiring Location Guide\* for Trucks (T)

T1	Behind driver side taillight housing
T2	Behind passenger side taillight housing



\* Representative vehicle shown

## Tools Required

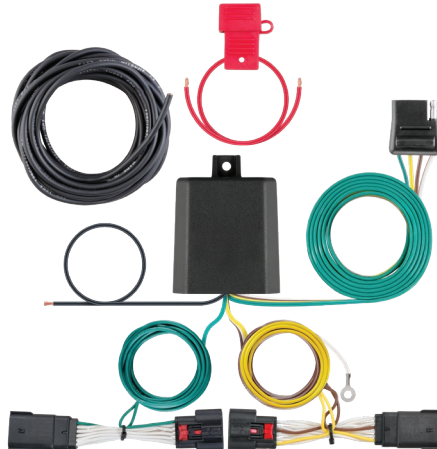
Ratchet	Wire stripper
Ratchet extension	Wire crimper
Torx bit, T-30	Cutting tool
Flat blade screwdriver	Fish wire

## ⚠ WARNING

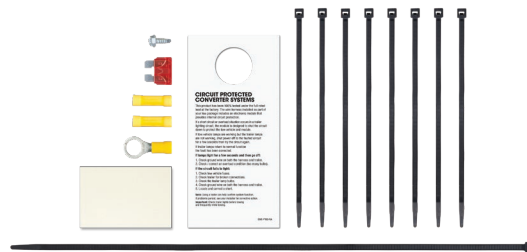
Do not exceed product rating or tow vehicle lamp load rating, whichever is lower.

The battery connection must be fuse-protected, 10-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.

## Product Registration and Warranty

CURT Group stands behind our products with industry-leading warranties. Provide feedback and help us to improve our products by registering your purchase at: [warranty.curtgroup.com/surveys](http://warranty.curtgroup.com/surveys)

### Step 1

Locate the vehicle battery. Look up the battery location in the owner's manual of your vehicle. Disconnect the negative battery terminal. Be sure to fasten this wire down and away from the battery when completing the installation process.



### Step 2A: Wrangler

Open the vehicle tailgate. On the driver side, locate the small trim access cover on the rear corner of the vehicle. Use a small flat blade screwdriver to remove the cover.



### Step 3A: Wrangler

Locate the fastener securing the taillight. Using a T-30 Torx bit, carefully remove the plastic fastener, being sure not to damage.

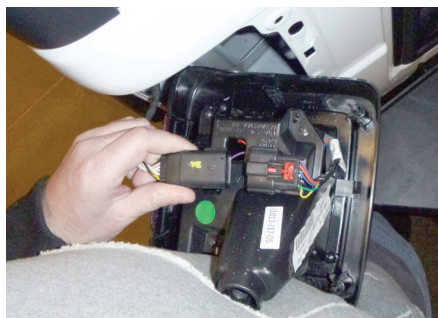


### Step 4A: Wrangler

With the taillight loose, carefully remove by pulling straight back. At the rear of the taillight, disconnect the wiring harness by sliding the red housing lock to the rear of the housing.

Separate the connectors, taking care not to damage the locking tabs. Set the taillight aside.

Repeat steps 2A - 4A on the other side of the vehicle.



### Step 5A: Wrangler

Starting on the driver side, locate the side of the custom wiring harness with the yellow wire and insert into the factory wiring harness. Make sure the connectors are fully inserted with the locking tabs in place.

### Step 6A: Wrangler

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.

Locate a grounding point near the box 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 (Use 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.

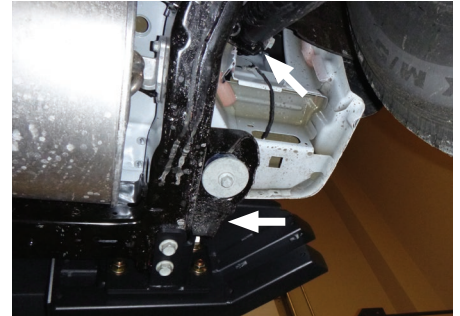
#### **⚠ WARNING**

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

### Step 7A: Wrangler

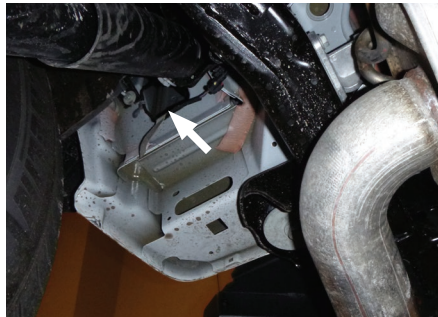
Route the custom wiring harness end with the green wire and the 4-flat down the opening to the rear leaf spring shackle. Route above the frame and below the body along the rear bumper towards the passenger side. Secure any loose wires with the provided cable ties.

Mount the 4-flat to the center of the vehicle near the hitch. Finish running the green wire to the passenger side.



### Step 8A: Wrangler

Once to the passenger side, route the green wire up to the passenger-side taillight harness and insert the custom wiring harness into the factory wiring. Make sure the connectors are fully inserted with locking tabs in place.



### Step 9A: Wrangler

Route the black power wire from the vehicle battery as shown on the last page of this manual.

#### **NOTICE**

Once the 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.

Install the tail lights onto the custom harness and reinstall tail light. Make sure the connectors are fully inserted with the locking tabs in place. Repeat on the other side of the vehicle.

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

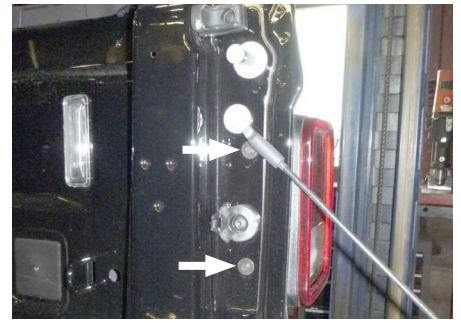
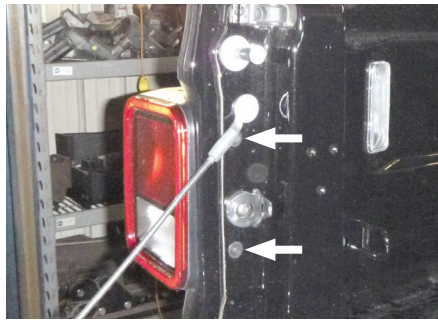
Reinstall all items removed during install. If it was disconnected at the beginning of the installation, reconnect the negative battery terminal. Install the provided 4-flat dust cover to help prevent corrosion.



### Step 2B: Gladiator

Open the vehicle tailgate. Use an 8mm socket to remove the two bolts securing the taillight to the vehicle.

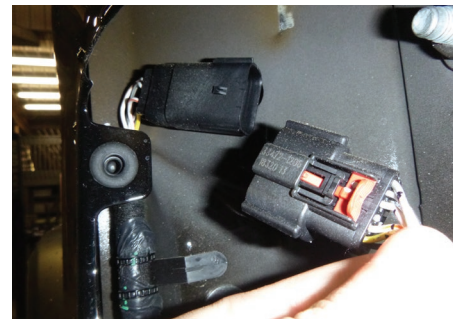
Repeat on the other side of the vehicle.



### Step 3B: Gladiator

Remove the taillights by pulling straight back. Separate the connectors, taking care not to damage the locking tabs. Set the taillight aside.

Repeat on the other side of the vehicle.



### Step 4B: Gladiator

Starting on the driver side, locate the side of the custom wiring harness with the yellow wire and insert into the factory wiring harness. Make sure the connectors are fully inserted with the locking tabs in place.

### Step 5B: Gladiator

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.

Locate a grounding point near the box 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 (Use 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.

#### **⚠ WARNING**

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

### Step 6B: Gladiator

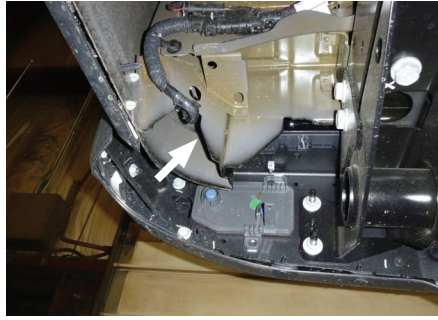
Route the custom wiring harness end with the green wire and the 4-flat down the opening behind the taillight and along the rear bumper towards the passenger-side. Secure any loose wires with the provided cable ties.

Mount the 4-flat to the center of the vehicle near the hitch. Finish running the green wire to the passenger side.



### Step 7B: Gladiator

Once to the passenger side, route the green wire up to the passenger-side taillight harness and insert the custom wiring harness into the factory wiring. Make sure the connectors are fully inserted with locking tabs in place.



### Step 8B: Gladiator

Route the black power wire from the vehicle battery as shown on the last page of this manual.

#### **NOTICE**

Once the 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.

Install the tail lights onto the custom harness and reinstall tail light. Make sure the connectors are fully inserted with the locking tabs in place. Repeat on the other side of the vehicle.

When in use, route the 4-flat to the center of the vehicle and out of the trunk.

When not in use, roll up and store in a convenient, out of the way location inside the trunk. Secure any loose wires with the 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.

# POWERED CONVERTER LEAD INSTRUCTION SHEET

## FICHE DE CONSIGNES DU CONVERTISSEUR D'ALIMENTATION

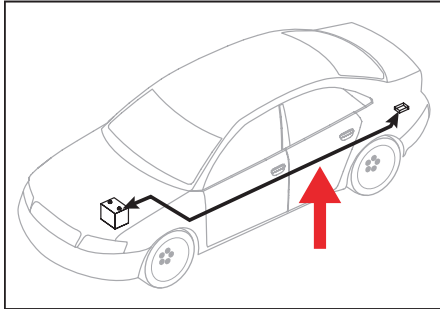
### HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

#### 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.

