

# 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	5.0-amps per side
Tail / Running Circuits	7.5-amps total

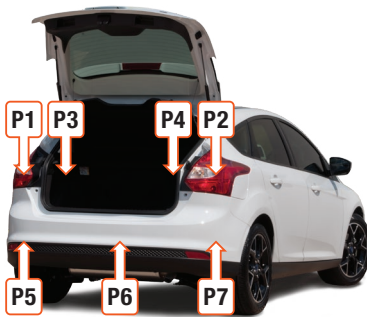
Check vehicle owner's manual or contact the vehicle manufacturer for more information.

## Wiring Location(s)

P3 and P4

## Wiring Location Guide\* for Passenger Cars (P)

P1	Behind driver side taillight housing, outside of trunk
P2	Behind passenger side taillight housing, outside of trunk
P3	Behind driver side taillight housing, inside of trunk
P4	Behind passenger side taillight housing, inside of trunk
P5	Behind driver side rear bumper
P6	Behind center of rear bumper
P7	Behind passenger side rear bumper



\* Representative vehicle shown

## Tools Required

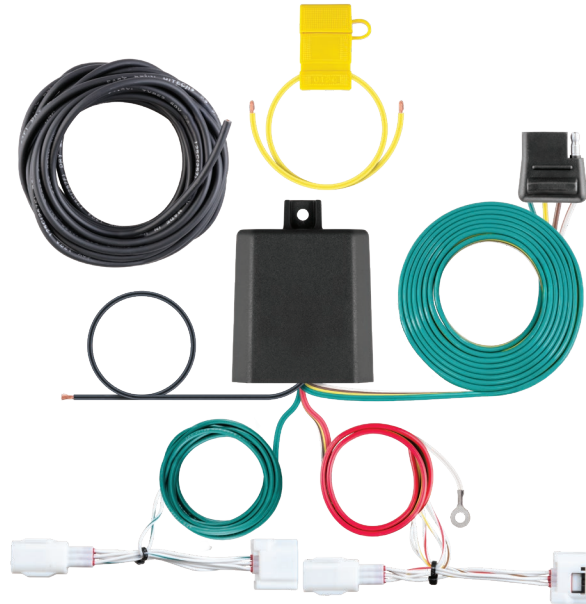
Ratchet	Cutting tool
Socket, 10mm	Wire crimper
Socket extension	Wire stripper
Flathead screwdriver	Trim panel removal tool
Electrical tape	

## WARNING

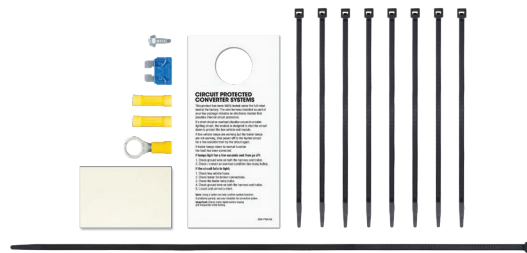
Do not exceed product rating or tow vehicle lamp load rating, whichever is lower.

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

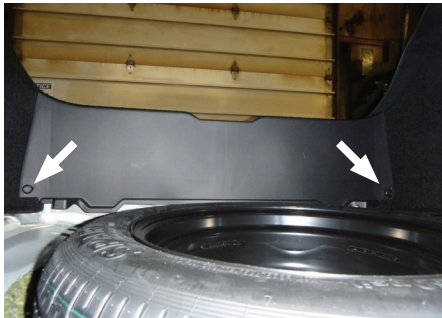
Locate the vehicle battery. If needed, refer to the vehicle owner's manual. Disconnect the negative battery terminal. Be sure to fasten this wire down and away from the battery when completing the installation process.



## Step 2

Open the vehicle's hatch / trunk and remove the floor coverings from the spare tire and security cover (hatchback vehicles only).

**For Mazda 3 only:** Using the trim panel removal tool, release the two push fasteners in the skid plate. Using the same tool, loosen the skid plate and remove it.



Mazda 3 Hatchback



Mazda 3 Sedan



Mazda CX-30

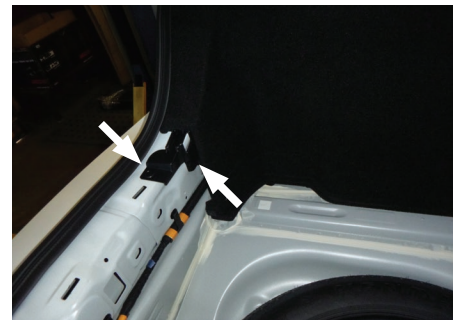
## Step 3A - Mazda 3 Hatchback

Starting on the driver side, using the trim panel removal tool, loosen the plastic trim at the top of the felt side-wall.

Remove the single push fastener located right beneath the loosened trim piece.

Under the skid plate, remove the two push fasteners securing the side panel to the vehicle.

Repeat this entire process on the other side of the vehicle.





### Step 3B - Mazda 3 Sedan

Starting on the driver side, under the skid plate, remove the push fastener securing the side panel to the vehicle.

Repeat on the other side of the vehicle.



### Step 3C - Mazda CX-30

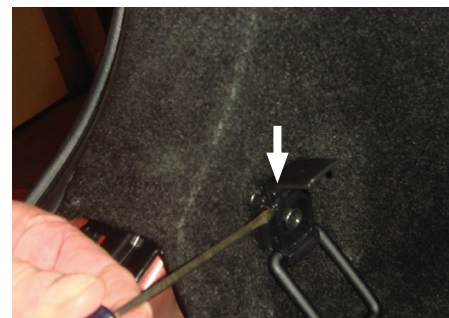
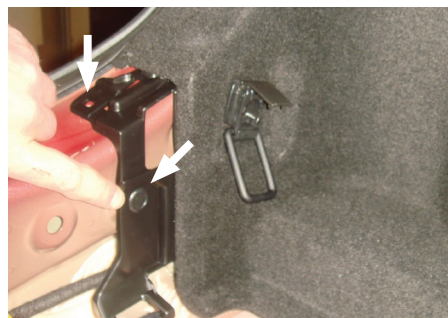
Starting on the driver side, using the trim panel removal tool, loosen the plastic trim at the top of the felt side-wall.

Remove the two push fasteners located right beneath the loosened trim piece.

Under the skid plate, remove the two push fasteners securing the side panel to the vehicle.

Using a flathead screwdriver, open the cargo tie-down fastener cover. Using a 10mm socket, remove the tie-down on the side-wall and any in the rear trunk area.

Repeat this entire process on the other side of the vehicle.



### Step 4A - Mazda 3 Sedan & Hatchback

Starting on the driver's side, pull back the felt side-wall of the hatch / trunk to locate the vehicle taillight wiring connectors. The connectors will be similar to those on your new custom wiring product.

Separate the connectors from the taillight housing taking care not to damage the locking tabs.

Insert the custom wiring end with yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.



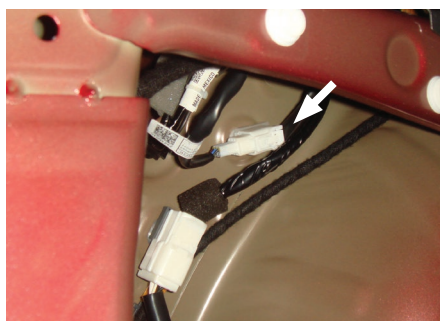
### Step 4B - Mazda CX-30

Starting on the driver's side, pull back the felt side-wall of the hatch / trunk. Using the trim panel removal tool, remove the three push fasteners securing the cover panel to the side of the vehicle, one on the floor and two at the top. Remove the cover panel to locate the vehicle taillight wiring connectors. The connectors will be similar to those on your new custom wiring product.



Separate the connectors from the taillight housing taking care not to damage the locking tabs.

Insert the custom wiring end with yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.



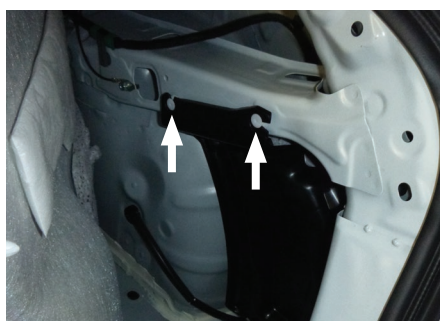
### Step 5A - Mazda 3 Hatchback

Route the custom wiring end with the green wire to the passenger side along the back of the vehicle. Pull back the side-wall covering.

Using the trim panel removal tool, release the two panel fasteners and remove the panel. Pull the sound dampening material to the side to expose the passenger side taillight harness.

Separate the connectors from the taillight housing taking care not to damage the locking tabs.

Insert the custom wiring end with yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.



### Step 5B - Mazda 3 Sedan

Route the custom wiring end with the green wire to the passenger side along the back of the vehicle.

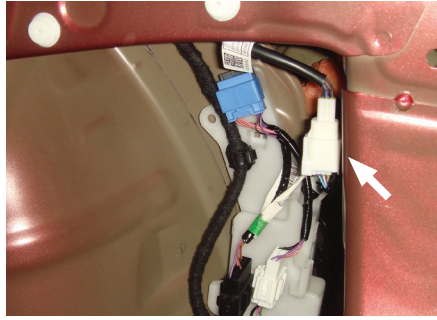
Separate the connectors from the taillight housing taking care not to damage the locking tabs. Insert the custom wiring end with yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.

### Step 5C - Mazda CX-30

Route the custom wiring end with the green wire to the passenger side along the back of the vehicle.

Separate the connectors from the taillight housing taking care not to damage the locking tabs.

Insert the custom wiring end with yellow wire between the separated connectors. Make sure the connectors are fully inserted with locking tabs in place.



### Step 6

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

### Step 7

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

#### **NOTICE**

Once the 12-volt power wire is connected to the harness, verify the harness is functioning by attaching the battery and testing with a test light, 4-flat tester or a functioning trailer.

### Step 8

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

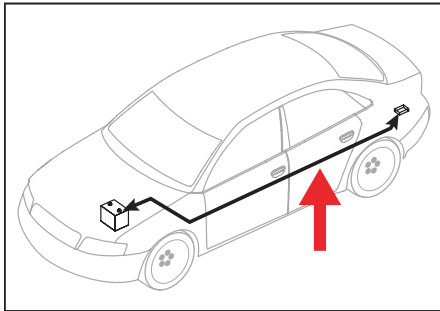
### HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

#### **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.

