

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 3.0-amps per side

Tail / Running Circuits 6.0-amps total

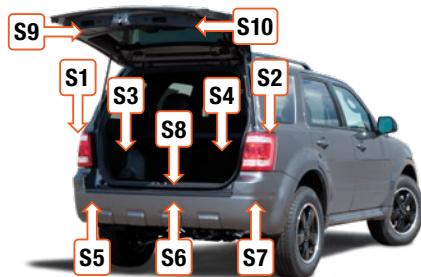
Check vehicle owner's manual or contact the vehicle manufacturer for more information.

Wiring Location(s)

S1 and S2

Wiring Location Guide* for SUVs and Vans (S)

- S1 Behind driver side taillight housing
- S2 Behind passenger side taillight housing
- S3 Behind driver side rear access panel
- S4 Behind passenger side rear access panel
- S5 Behind driver side rear bumper
- S6 Behind center of rear bumper
- S7 Behind passenger side rear bumper
- S8 Under rear floor panel
- S9 Behind driver side rear access panel
- S10 Behind passenger side rear access panel



* Representative vehicle shown

Tools Required

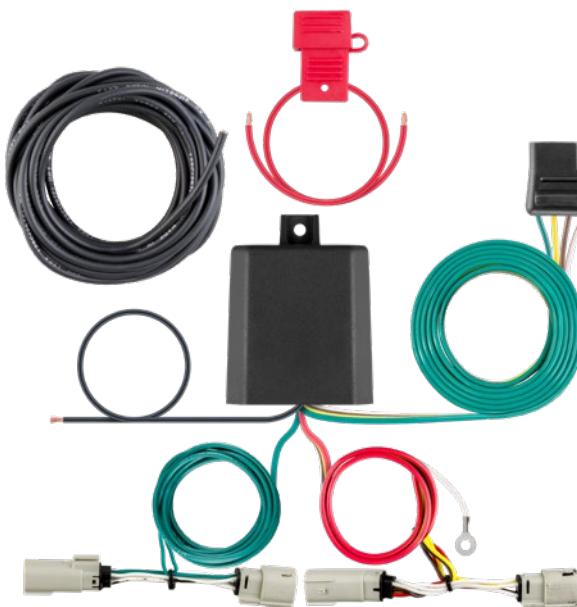
Ratchet	Panel trim removal tool
Socket, 10mm	Small flathead screwdriver
Socket extension	Phillips screwdriver

WARNING

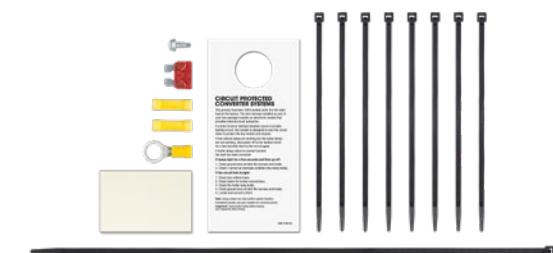
Do not exceed product rating or tow vehicle lamp load rating, whichever is lower.

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.

Step 1

Locate the vehicle battery and disconnect the negative battery terminal. Be sure to fasten this wire down and away from the battery while completing the installation process.



Step 2

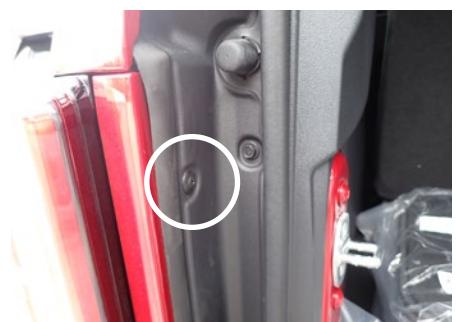
Open the tailgate all the way and raise the glass window in the open position. Use a 10mm socket to remove the four bolts, two on each side, securing the taillight trim in place.



Step 3

Use a Phillips screwdriver to remove eight screw push fasteners, four on each side securing the taillight trim in place.

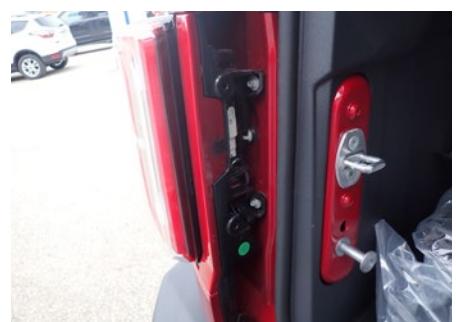
Note: You may need a small flathead screwdriver to help back out the push fastener screw. Adding a little pressure to the backside of the screw will help the screw back out.



Step 4

Remove the taillight trim straight out, starting at the bottom and working your way up.

Repeat on the other side of the vehicle.



Step 5

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.

Repeat on the other side of the vehicle.



Step 6

Starting on the driver side, locate the custom wiring end with the yellow wire. Route the yellow wire behind the taillight wiring and wrap the wire around the rear bumper so that the connectors are above the bumper and the black converter box is below the bumper.

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

Route the wires up and behind the rear door seals that were removed in steps 4 and 5.



Step 7

Route the green wire over the driver-side frame rail and along the bumper. Next, route the green wire over the passenger-side frame rail. Zip tie as needed.

Repeat step 6 using the wire with the green wire to attach to the passengers side tail light.



Step 8

Adhere the black converter box using the provided double-sided tape and cable ties (on the top side of the frame). Secure any loose wires with the provided cable ties.



Step 9

Locate a grounding point 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 (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.

⚠ CAUTION

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

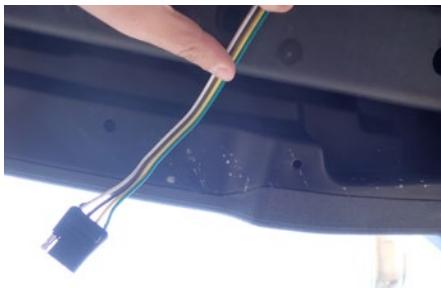


Step 10

Route the 4-flat along the rear bumper and zip tie as needed. Mount the 4-flat close to the receiver tube.

NOTICE

Once the custom wiring harness is installed, verify that the harness is functioning by attaching the 4-flat to any vehicle with functioning trailer lights. The taillights on the tow vehicle should function along with the taillights on the towing vehicle.



Step 11

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

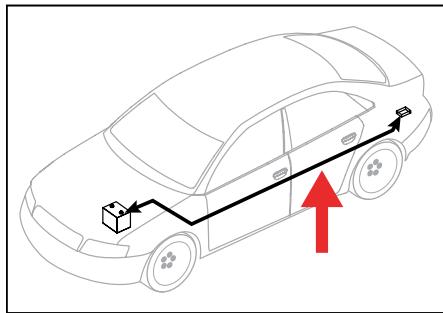
HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

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.

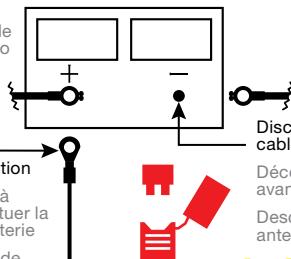
1. Este sistema de adaptadores solo se debe utilizar con sistemas con polo negativo a masa de 12 voltios.

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.

Vehicle battery
Batterie du véhicule
Batería del vehículo



Use ring terminal for battery connection

Utiliser une cosse à anneau pour effectuer la connexion à la batterie

Utilizar el terminal de anillo para la conexión de la batería

Fuse holder with 10 amp fuse max (install fuse after all other steps are complete)

Porte-fusible avec fusible de 10 A max (installer le fusible après avoir effectué toutes les autres étapes)

Portafusible con fusible de 10 A máx. (instalar fusible una vez completados los otros pasos)

Green - Right turn

Red - Brake

Yellow - Left turn

Brown - Taillight

Vert - Clignotant droit

Rouge - Frein

Jaune - Clignotant gauche

Brun - Feu arrière

Verde - Giro a la derecha
Rojo - Freno
Amarillo - Giro a la izquierda
Marrón - Luces traseras

Generic housings shown for reference only
Les boîtier génériques ne sont fournis qu'à des fins de référence
Se muestran carcasa genéricas, solo para referencia

Disconnect negative battery (-) cable before wiring the power wire

Déconnecter le câble négatif (-) de la batterie avant d'installer le câble d'alimentation

Desconectar el cable negativo (-) de la batería antes de conectar el cable de alimentación

12 GA wire or larger
Câble de calibre 12 ou plus
Cable calibre 12 o mayor

Route black wire to positive battery (+)

Conneter le câble noir à la borne positive (+) de la batterie

Pasar el cable negro hacia el polo positivo (+) de la batería

If using the converter as a powered module for a two-wire system, the red brake wire must be grounded

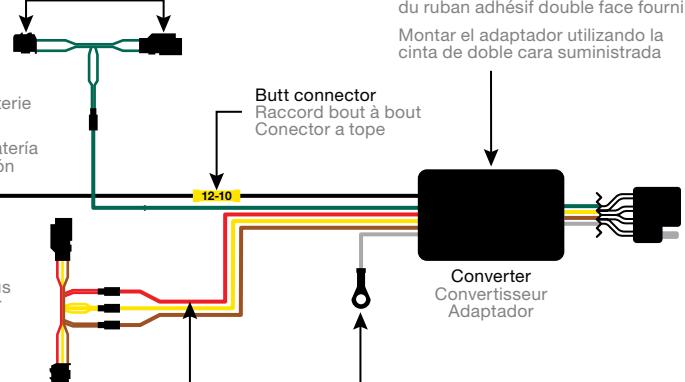
Si le convertisseur est utilisé comme module d'alimentation pour un système à deux fils, le câble de freinage rouge doit être mis à la masse

Si se utiliza el adaptador como un módulo energizado para un sistema bifilar, el cable rojo del freno debe estar conectado a tierra

Mount converter using the provided double-sided tape

Installer le convertisseur à l'aide du ruban adhésif double face fourni

Montar el adaptador utilizando la cinta de doble cara suministrada



Attach the ring terminal of the white ground wire to vehicle body using the screw provided (drill 3/32" hole if necessary)

Attacher la cosse à anneau du fil de terre blanc à la carrosserie du véhicule à l'aide de la vis fournie (percer un trou de 3/32 po au besoin)

Conectar el terminal de anillo del cable a tierra blanco a la carcasa del vehículo utilizando el tornillo suministrado (haga una perforación de 3/32" si es necesario)