INSTALLATION MANUAL

Level of Difficulty
Moderate to hard (based on vehicle)

Electrical Ratings
<table>
<thead>
<tr>
<th>Circuit Type</th>
<th>Amperage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal circuits</td>
<td>5.0-amps per side</td>
</tr>
<tr>
<td>Tail / Running Circuits</td>
<td>7.5-amps total</td>
</tr>
</tbody>
</table>

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

Wiring Location(s)
See page 2 for wiring location guide

Tools Required
<table>
<thead>
<tr>
<th>Tool</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test light</td>
<td>Utility knife</td>
</tr>
<tr>
<td>Electrical tape</td>
<td>Wire crimper</td>
</tr>
<tr>
<td>Paper</td>
<td>Wire stripper</td>
</tr>
<tr>
<td>Pen</td>
<td>--</td>
</tr>
</tbody>
</table>

Testing Procedure
If testing with a test light, attach the ground lead of the tester to the exposed ground terminal of the 4-flat end. Activate the tow vehicle left turn, right turn, tail and brake lights one at a time. Probe the three receptacles of the 4-flat end to confirm proper functionality.

If testing with a trailer, mate the 4-flat with the trailer and run the same test as the circuit tester using the trailer lights. If a function on the trailer lights does not work properly, disconnect the trailer 4-flat, turn functions on the vehicle off and recheck function with a circuit tester. If functionality is good, check the trailer for potential problems.

The short circuit, overload and thermal protection of the taillight converter may cause the trailer lamps to pulse on briefly every two seconds. If this pulsing is seen when testing with a trailer, this is an indication that the lamp circuits exceed the ratings of the product or there is a wiring issue with the trailer.

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

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.

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

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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.
WIRING LOCATION GUIDES

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

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

Wiring Location Guide* for Trucks (T)
T1 Behind driver side taillight housing
T2 Behind passenger side taillight housing
T3 Behind driver side rear bumper
T4 Behind center of rear bumper fascia
T5 Behind passenger side rear bumper

* Representative vehicle shown

DETERMINING VEHICLE WIRING TYPES

First, determine which wires will not be used for installation. With the vehicle running, check to ensure all lights are off at the back of the vehicle. With all vehicle lights off, probe the taillight connectors while they are still connected to the vehicle.

If using a multimeter:
Ensure the meter is in the DC volt setting. Any wires carrying greater than two volts will not be used to determine vehicle wiring type and will not be used by the taillight converter.

If using a test light:
Any wires that illuminate the bulb, dim or fully, will not be used to determine vehicle wire type and will not be used by the taillight converter. Vehicle wiring type and function signal location in the housing can now be determined by activating each light’s circuit, one at a time, and probing the remaining wires. Follow the chart below.

<table>
<thead>
<tr>
<th>Vehicle Wiring Type</th>
<th>Wiring Description</th>
<th>Only PS signal activated</th>
<th>Only brakes depressed</th>
<th>Only DS signal activated</th>
<th>Only tail lamps activated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-wire</td>
<td>Combined stop and turn signal with an independent tail signal</td>
<td>12V flashing signal on PS</td>
<td>12V signal on both sides - same wire as turn signal</td>
<td>12V flashing signal on DS</td>
<td>12V signal on tail</td>
</tr>
<tr>
<td>Three-wire</td>
<td>Independent stop, turn and tail signals</td>
<td>12V flashing signal on PS</td>
<td>12V signal on stop wire on both sides</td>
<td>12V flashing signal on DS</td>
<td>12V signal on tail</td>
</tr>
<tr>
<td>PWM-ST</td>
<td>Combined stop and tail signal with an independent turn signal</td>
<td>12V flashing signal on PS</td>
<td>12V signal on stop / tail wire on both sides - same wire used as stop and tail</td>
<td>12V flashing signal on DS</td>
<td>12V-5V signal or dim lamp on stop / tail wire on both sides - same wire used as stop and tail</td>
</tr>
<tr>
<td>PWM-STT</td>
<td>Combined stop, turn and tail signal</td>
<td>12V flashing signal on PS - same wire used as stop, turn and tail</td>
<td>12V signal on stop / turn / tail wire on both sides - same wire used as stop, turn and tail</td>
<td>12V flashing signal on DS - same wire used as stop, turn and tail</td>
<td>12V-5V signal or dim lamp on stop / turn / tail wire on both sides - same wire used as stop, turn and tail</td>
</tr>
</tbody>
</table>
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 2
Locate vehicle taillight wiring. Refer to the wiring location guides on page two.
Identify the wiring type of your vehicle using the ‘How to Determine Vehicle Wiring Types’ instructions on page two.
Locate vehicle battery and disconnect the negative battery terminal.

Step 3
Using snap locks, attach the input wires of the taillight converter to the corresponding vehicle harness wires identified in Step 2 using the ‘Wiring Installation’ table below.

Step 4
Locate a flat spot inside the vehicle, near the taillight. Adhere the black converter box using the provided double-sided tape.
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 5
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.

WIRING INSTALLATION

<table>
<thead>
<tr>
<th>Vehicle Wiring Type</th>
<th>Green Wire</th>
<th>Red Wire</th>
<th>Yellow Wire</th>
<th>Brown Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two-wire</td>
<td>Splice to right stop / turn wire</td>
<td>Ground with white wire</td>
<td>Splice to left stop / turn wire</td>
<td>Splice to tail wire</td>
</tr>
<tr>
<td>Three-wire</td>
<td>Splice to right turn wire</td>
<td>Splice to stop wire</td>
<td>Splice to left turn wire</td>
<td>Splice to tail wire</td>
</tr>
<tr>
<td>PWM-ST</td>
<td>Splice to right turn wire</td>
<td>Splice to stop / tail wire</td>
<td>Splice to left turn wire</td>
<td>Ground with white wire</td>
</tr>
<tr>
<td>PWM-STT</td>
<td>Splice to right turn / stop / tail wire</td>
<td>Ground with white wire</td>
<td>Splice to left turn / stop / tail wire</td>
<td>Ground with white wire</td>
</tr>
</tbody>
</table>
POWERED CONVERTER LEAD INSTRUCTION SHEET
FICHE DE CONSIGNES DU CONVERTISSEUR D’ALIMENTATION
HOJA DE INSTRUCCIONES DEL CONDUCTOR DEL ADAPTADOR ALIMENTADO POR BATERÍA

**NOTICE / 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**
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.

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.

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 15 amp fuse max (install fuse after all other steps are complete)
Porte-fusible avec fusible de 15 A max (installer le fusible après avoir effectué toutes les autres étapes)
Portafusible con fusible de 15 A máx. (instalar fusible una vez completados los otros pasos)

Green - Right turn
Red - Brake
Yellow - Left turn
Brown - Taillight
Verde - Giro a la derecha
Rojo - Freno
Amarillo - Giro a la izquierda
Marrón - Luces traseras

Vehicle battery
Batterie du véhicule
Batería del vehículo

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

Butt connector Raccord bout à bout
Conector a tope

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

Route black wire to positive battery (+)
Connecter 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

AVIS / AVISO
Les boîtiers génériques ne sont fournis qu’à des fins de référence. Les images ne sont fournies qu’à des fins de référence. L ’emplacement de la batterie peut varier en fonction du véhicule.

NOTICE
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