



INSTALLATION MANUAL

RHE-10006

Level of Difficulty

Difficult

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.

Wiring Location(s)

T4

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

Tools Required

Ratchet	Ratchet extension
Socket, 10mm	Flathead screwdriver
Wire cutter	Wire stripper
Wire crimper	Test light or multimeter

Product Registration and Warranty

Ranch Hand stands behind our products with industry-leading warranties. To get copies of the product warranties, register your purchase or provide feedback, visit: warranty.curtgroup.com/surveys

⚠ WARNING

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

Be sure not to lay tools across the positive terminal (typically noted with red covers or a red '+' symbol). This can cause a ground to short leading to sparks and/or electrical shocks.

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



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 in the engine compartment on the passenger side of the vehicle and disconnect the negative battery terminal. Be sure to fasten this wire down and away from the battery during installation.



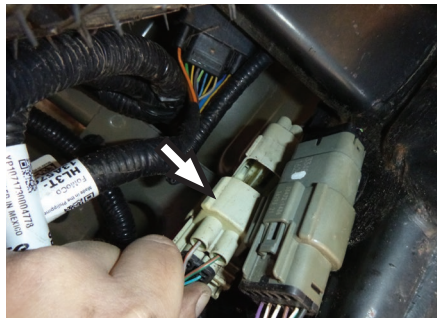
Step 2

On the rear driver side between the frame rail and the spare tire, locate the harness. The connectors will match the connectors on the custom harness. Separate the connectors taking care not to damage the locking tabs.



Step 3

Install the customer harness in between the separated connectors.



Step 4

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 5

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 and/or zip-ties. Failure to mount the box in a protected area can cause loss of warranty, product failure, overheating and potential fire.

Step 6

Route the black power wire from the battery as shown in the provided 'Powered Converter Lead Instruction Sheet.'

NOTICE

Once 12 volt power wire is connected to the harness verify that the harness is functioning by attaching the battery and testing.

Step 7

Route the wiring to the driver side and along the frame to where the cab and the box meet.

Use cable ties to hold the harness in place and keep it away from hot or moving parts.



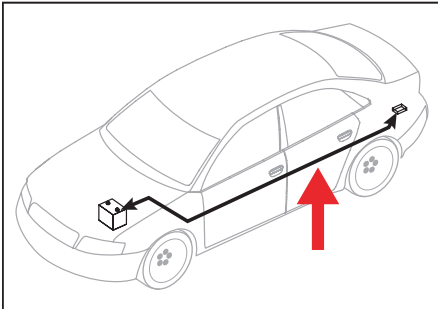
Step 8

Once the headache rack is installed, route the light harness end from the headache rack between the cab and the box. Attach both of the mating connectors from each harness, ensuring the tabs are locked in place.



 NOTICE
AVIS / AVISO

Las ilustraciones son solo para referencia. La ubicación de la batería puede variar según el vehículo.



WARNING
AVERTISSEMENT / ADVERTENCIA

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

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. 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.

