

# 59187

## STANDARD DUTY POWERED TAIL LIGHT CONVERTER WITH SURFACE MOUNT TECHNOLOGY (SMT) WITH WIRING KIT



### MUST READ FIRST!

All steps must be followed to ensure correct function of the T-Connector. To verify proper installation once installed, test by connecting a test light or properly wired trailer.

### ¡DEBE LEERSE PRIMERO!

Debe seguirse todos los pasos para asegurar el correcto funcionamiento del convertidor. Para verificar la correcta instalación, pruebe conectando una luz de prueba o un remolque debidamente cableado.

### À LIRE D'ABORD!

Pour assurer le bon fonctionnement du convertisseur, il faut suivre toutes les étapes. Pour vérifier que l'installation a été bien effectuée, branchez un feu de test ou une remorque correctement filéée.

10/1/2010

## English

### NOTE:

Figure 1 shows typical vehicle locations to access the wires you will need to provide the required signals to your converter. Page 2 provides detail for converter connections and typical routing of the converter power wire from the vehicle's battery to the converter. Refer to these illustrations as you read through the instructions.

### INSTALLATION STEPS:

1. Locate the vehicle's taillight wiring based on type of vehicle you are installing the converter on. (See Figure 1.)
2. Using a test light, identify the wires in the harness for the left turn, right turn, tail and stop lights.
3. Temporarily disconnect the negative battery cable from the vehicle's battery.
4. Attach the vehicle harness wires identified in Step 2 to the corresponding input wires of the tail light converter as shown on Page 2.
5. Locate an accessible mounting location for the converter module. If locating the converter outside of the passenger cabin, find a clean surface that is out of the path of road spray and debris from the rear wheels.

### WARNING!

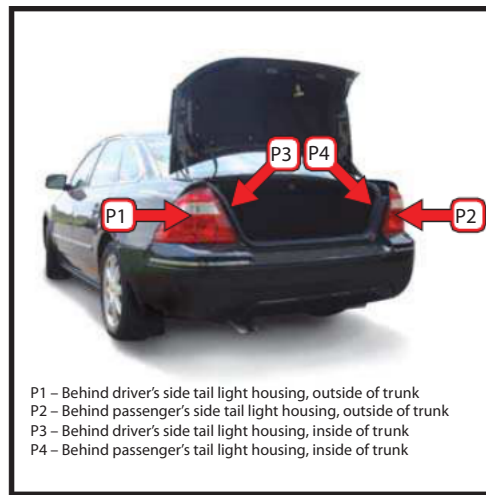
Verify miscellaneous items that may be hidden behind or under any surface before drilling to avoid damage to vehicle and/or personal injury.

6. Locate a suitable mounting location for the ground eyelet on the vehicle near the converter on vehicle's frame or cross member. Remove any debris or undercoating to expose a clean metal surface and drill a 3/32" hole. Mount the white wire using the ground screw and eyelet provided.

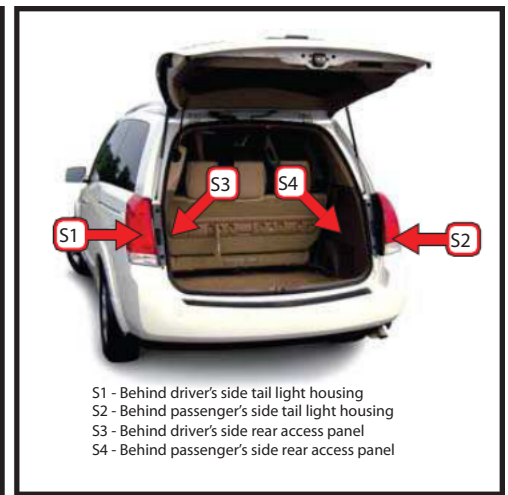
7. Secure the converter wires to the vehicle using cable ties and reinstall negative battery cable on battery.

### TEST PROCEDURES:

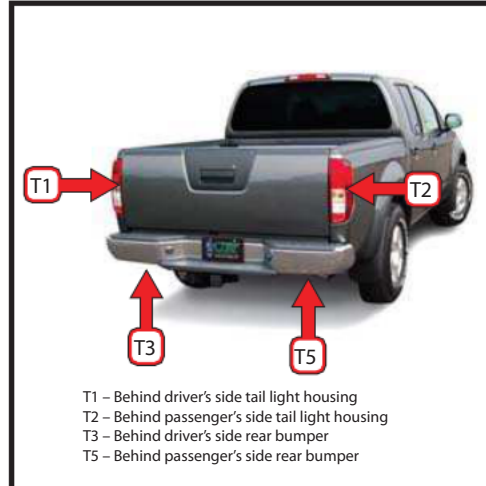
8A. Using a Test Light: Attach the ground lead to the exposed ground terminal of the 4-flat end. Activate the tow vehicle's left turn, right turn, tail and stop lights one at a time. Probe the three receptacles of the 4-flat end to confirm proper operation.



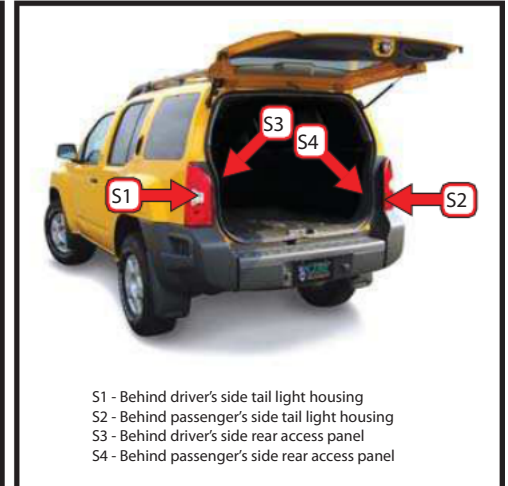
- P1 - Behind driver's side tail light housing, outside of trunk
- P2 - Behind passenger's side tail light housing, outside of trunk
- P3 - Behind driver's side tail light housing, inside of trunk
- P4 - Behind passenger's tail light housing, inside of trunk



- S1 - Behind driver's side tail light housing
- S2 - Behind passenger's side tail light housing
- S3 - Behind driver's side rear access panel
- S4 - Behind passenger's side rear access panel



- T1 - Behind driver's side tail light housing
- T2 - Behind passenger's side tail light housing
- T3 - Behind driver's side rear bumper
- T4 - Behind driver's side rear bumper
- T5 - Behind passenger's side rear bumper

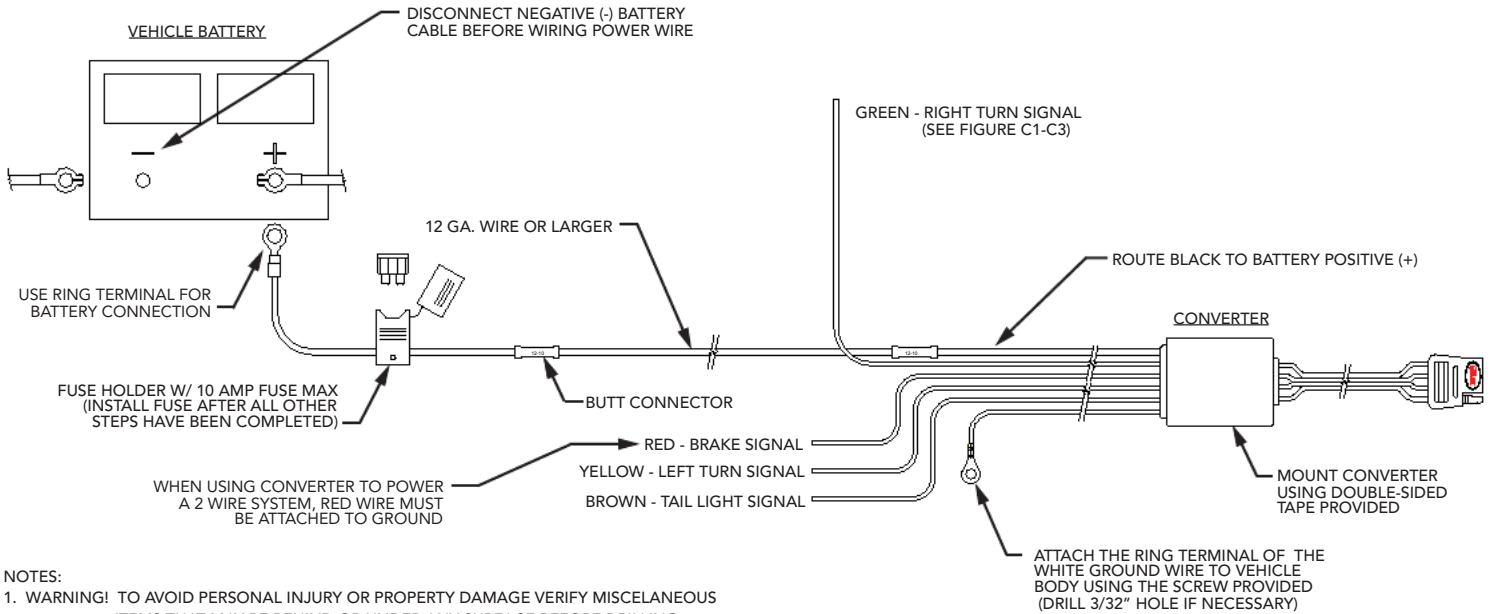


- S1 - Behind driver's side tail light housing
- S2 - Behind passenger's side tail light housing
- S3 - Behind driver's side rear access panel
- S4 - Behind passenger's side rear access panel

Figure 1

8B. Using a Trailer: Connect vehicle 4-flat with trailer wiring and test the converter's operation using the trailer lights. Activate the tow vehicle's left turn, right turn, tail and stop lights one at a time. If the trailer lights do not operate properly, disconnect the trailer 4-flat. Using a test light, check for proper operation at the vehicle 4-flat. If vehicle 4 flat operates properly, check the trailer for potential problems.

## POWER WIRE ROUTING AND CONNECTION



**NOTES:**

1. WARNING! TO AVOID PERSONAL INJURY OR PROPERTY DAMAGE VERIFY MISCELLANEOUS ITEMS THAT MAY BE BEHIND OR UNDER ANY SURFACE BEFORE DRILLING.
2. THIS CONVERTER SYSTEM IS TO BE USED ONLY ON 12 VOLT NEGATIVE GROUND SYSTEMS.
3. SECURE POWER WIRE TO VEHICLE CHASSIS USING CABLE TIES PROVIDED.
4. 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.
5. ILLUSTRATION IS NOT TO SCALE.

**A**

