



## Installation Instructions

p/n 07660, 02/25/16, version 6

### Isolator

This sheet must be read completely to:

1. Provide assistance/clarification to the installer.
2. Avoid causing injury to installer, customer, end user, or others.
3. Prevent damage to vehicle and/or accessory.
4. Prevent death to customer or other vehicle operators.

Installer: Please forward this sheet to the customer after reviewing it.

It is virtually impossible for us to be able to address every possible situation an installer or user will encounter. This requires both to exercise due diligence and to apply some level of common sense. If you have any question or problem during the installation, please contact us as necessary. Read the instructions completely prior to installation. 90% of questions we receive could be answered simply by reading the instructions in their entirety. Phone support will always provide the quickest response.

Important Information in our instructions will be provided in the following manner:

SHOP TIP: this is information we have gathered from hands-on installs or customer feedback.

NOTE: important information regarding the installation.

CAUTION: failure to follow instructions could result in damage to vehicle and/or accessory.

WARNING: failure to follow instructions could result in injury or death of operator and/or passenger or others.

NOTE:

1. "Left", "Right", "Front" and "Rear" are described from the seated position of the vehicle.
2. Check local laws regarding the use of auxiliary lighting.
3. Use of owners manual or service manual is recommended for installation.
4. If so equipped, place motorcycle on it's centerstand on solid, level ground or engage parking brake.

CAUTION:

1. When adding electrical accessories, always disconnect the battery and properly fuse new electronics.

WARNING:

1. Allow the vehicle to cool prior to installation & when operating engine, allow adequate ventilation.
2. NEVER modify the kit in ANY manner. Doing so voids warranty and places all liability on the installer and/or user.
3. Never route wires or install components that interfere with the operation of the steering, suspension, brake/clutch/gas lever/pedal/grip or any other operational function of the vehicle.
4. Never allow your accessories to cause distractions to remove your focus off the vehicles operation. Never forget that this is a high risk sport - don't make it a higher risk when you don't have to.
5. Never allow your accessories to cause distractions to others on the road.

#### Part Listing

- 
- 1 Isolator
- 2 1/4" ring terminal
- 1 blue butt connector
- 1 fuse holder
- 1 15 amp fuse

#### Tools / Supplies Required

- 
- wire strippers
- wire crimper
- screwdrivers

**NOTE:** a. If your trailer has "domestic" type lighting (combined turn/brake lights and a 4 pin harness), you will also need to use our "5 to 4 Converter" unless you have a 2014+ Harley with CanBus combined lighting.

b. The 4 pin connector on the isolator is the *INPUT*. The output wires have no connector on them.

c. Do not connect the outputs on the Isolator by wire color. You must review actual function as there is no industry standard for Powersports/Motorcycle trailer wiring.

d. On your Isolator, there is a small black with with a female bullet connector on it. This is to provide a ground for any module you will be installing. Do not ground your trailer or any other item to this wire.

1. Install the Sub-Harness if not yet installed, using the supplied instructions.

2. Install any modules required for your specific installation, using the supplied instructions.

3. Find a suitable mounting location for your isolator. You will be plugging the Isolator's white 4 pin connector into either the subharness or module. Connect the 4 pin connectors.

**NOTE:** On your fuse holder, cut the wire in the middle of the loop if not already done. Do not install fuse now.

4. Crimp the ring terminal on one side of your fuse holder. Crimp the butt connector on the other side. Connect the ring terminal to the BATTERY POSITIVE [+] terminal.

5. Connect the red wire from the isolator to the butt connector on the fuseholder.

6. There are 2 white wires on your isolator. One is the same length as the brown/blue/green/yellow output wires. Connect the other white wire to ground; this can be the BATTERY NEGATIVE [-] post or any good frame ground.

7. Connect the output wires from the isolator to your trailer connector as follows:

5 Wire Output;

Green - tail light  
Brown - left turn  
Yellow - right turn  
Blue - brake light  
White - ground

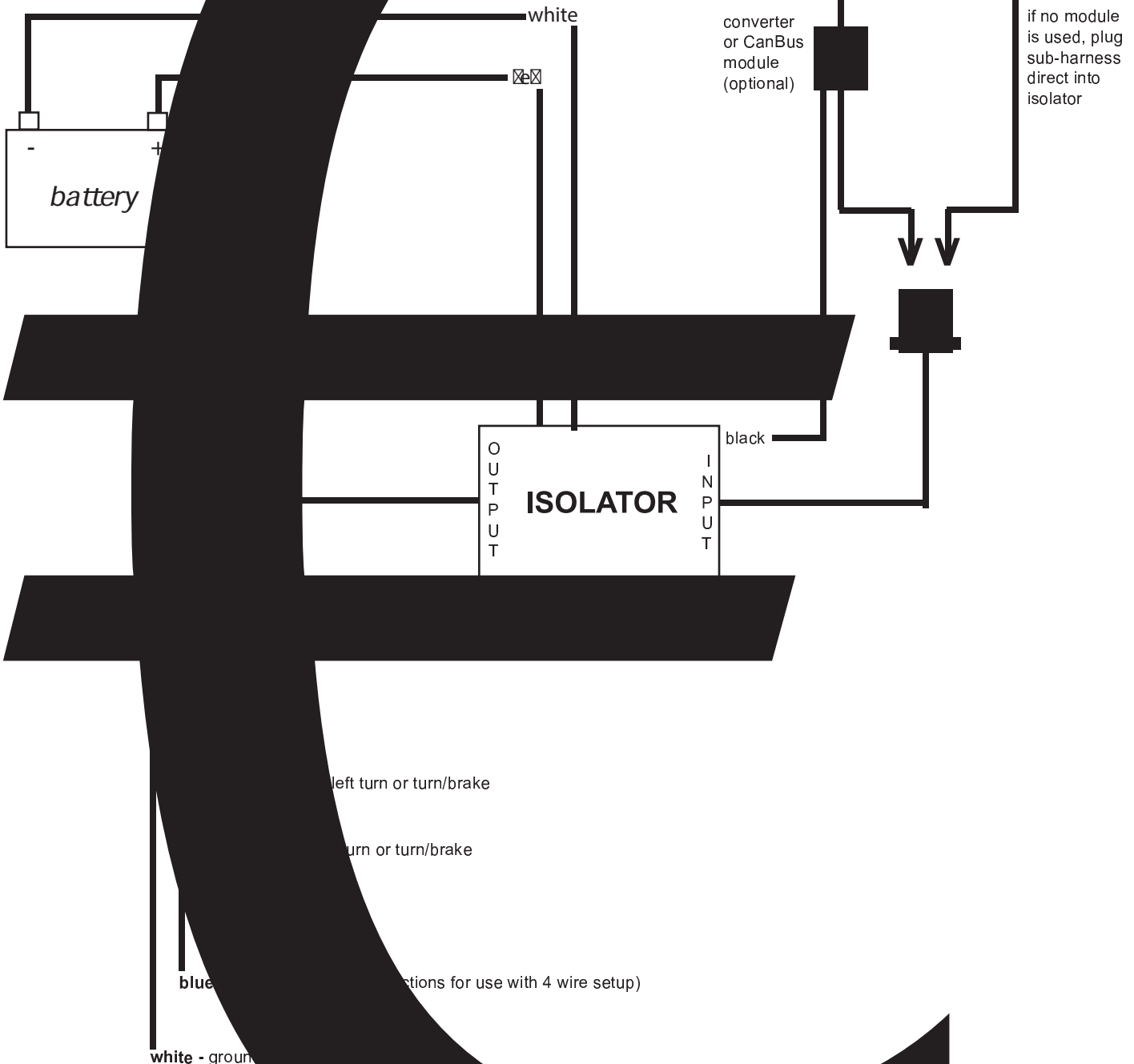
4 Wire Output;

Green - tail light  
Brown - left turn & brake  
Yellow - right turn & brake  
Blue - accessory output (see instructions in "5 to 4 Converter")  
White - ground

8. Insert the supplied 15 amp fuse into the fuse holder. Turn on key and test isolator functions.

**NOTE:** if your trailer has additional accessory lighting, you may need to increase the fuse size to 20 amp.

subharness  
based on vehicle





## Polaris Slingshot Isolator Subharness Kit

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### NOTE:

1. "Left", "Right", "Front" and "Rear" are described from the seated position of the vehicle. Vroom vroom.
2. Check local laws regarding the use of auxiliary lighting and electronics. Don't be 'that guy'.
3. Use of owners manual or service manual is recommended for installation. Sorry....more reading.
4. If so equipped, place motorcycle on it's centerstand on solid, level ground or engage parking brake. Do it like Mom is watching.

### CAUTION:

1. When adding electrical accessories, always disconnect the battery and properly fuse new electronics.
2. DO NOT let the smoke out of the part. All electronics operate on smoke....when released, electronics are dead.

### WARNING:

1. Allow the vehicle to cool prior to installation & when operating engine, allow adequate ventilation. Yep.
2. NEVER modify the kit in ANY manner. Doing so voids warranty and places all liability on the installer and/or user. Nope.
3. Never route wires or install components that interfere with the operation of the steering, suspension, brake/clutch/gas lever/pedal/grip or any other operational function of the vehicle. Duh.
4. Never allow your accessories to cause distractions to remove your focus off the vehicles operation.  
Never forget that this is a high risk sport - don't make it a higher risk when you don't have to. Major duh.
5. Never allow your accessories to cause distractions to others on the road. Super sized duh.

### Part Listing

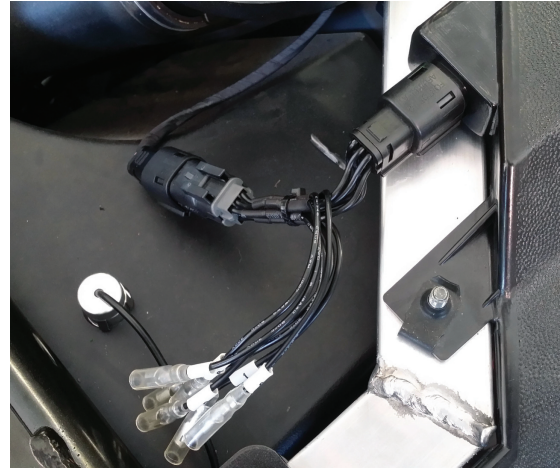
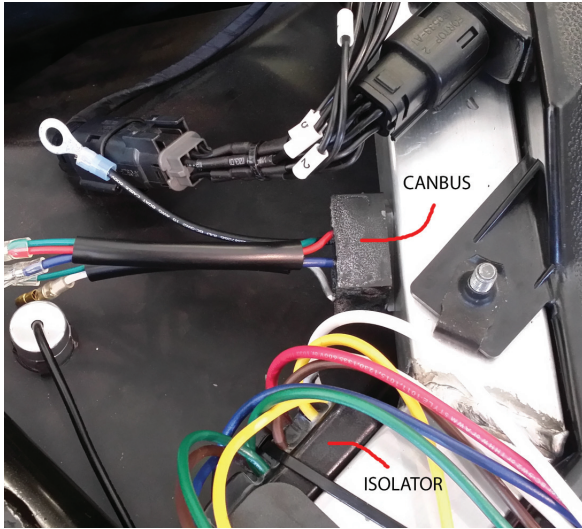
- |   |                            |
|---|----------------------------|
| 2 | tail light subharness      |
| 1 | 4 pin connector with wires |
| 1 | Canbus module              |
| 1 | yellow extension wire      |
| 8 | 6" wire tie                |
| 2 | 3/16" flat washer          |
| 1 | 6mm nylock nut             |
| 1 | 3/16" blue ring terminal   |
| 2 | 1/8" split loom.           |

### Tools / Supplies Required

- wire strippers
- wire crimpers
- torx tool set
- 10mm wrench.

1. Remove the roll hoops. Remove the bodywork that covers the rear subframe and exposes the connectors for the rear lighting.

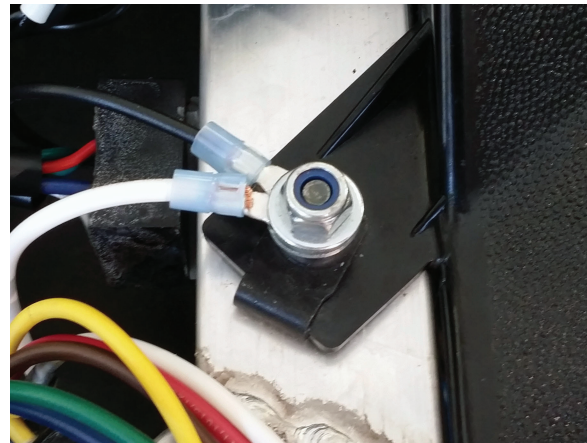
2. Locate the connector for the tail lights. Install one of the sub harnesses as shown on the right to each tail light.



3. Using 2 wires ties to make one longer one, secure the isolator as shown to the left. Mount the CANBUS module by peeling off the backing on the tape and mount as shown.

**CAUTION:** if you do not properly ground the CANBUS module in the next step, it will damage the unit beyond repair. It is active electronics and must be properly grounded. Damage is not covered under warranty.

4. You have 2 white wires coming from the isolator. Take the longer of the 2 and shorten it and crimp one of the supplied 1/4" blue ring terminals to the white wire. Refer to the photo to the right. Put one of the supplied flat washers over the bolt. Now place BOTH the white wire from the isolator and the black wire from your CANBUS module other the bolt. Place another flat washer on top of the 2 ring terminals and use the supplied lock nut to secure them.



5. Connect wires as follows.

- a. green from the CANBUS module to wire #5 on the left tail light subharness.
- b. white with blue stripe from CANBUS module to wire #6 on the left tail light subharness.

6. Plug the 4 pin plug with short wires to the 4 pin connector on the isolator. Connect wires as follows:

- a. blue from the 4 pin connector to blue from the CANBUS module.
- b. green from the 4 pin connector to the green from the CANBUS module (there is also a red connected to this green).
- c. brown from the 4 pin connector to wire #3 on the left tail light subharness.
- d. yellow from the 4 pin connector to the yellow extension wire included.

7. Run the yellow extension wire to the right tail light subharness. Connect it to wire #3. Slide the supplied split loom over the yellow wire and use the supplied wire ties to secure the wire to the frame.

Note: if you are installing the 07664 '5 to 4 Converter', place it between the 2 white connectors you just plugged together. Be sure to ground the unit to the same place the other 2 modules are grounded to. Failure to ground the converter before turning on the key will damage the unit beyond repair and is not covered by warranty.

CAUTION: failure to install the fuse holder on the positive wire as described will cause damage in case of a short.

8. Run the large red wire to the space between the fuel tank and the storage compartment behind the driver. You will need to remove the battery access cover. Connect the red wire to the battery positive terminal using the supplied fuse holder, blue ring terminal found in the subharness kit (it's a larger hole) and the butt connector. Cover with split loom.

Caution: DO NOT connect wire color to wire color. There is no standard in the motorcycle trailer community. You MUST connect function to function.

9. Connect the outputs of your isolator as follows:

***w/o 07664 5 to 4 Converter***

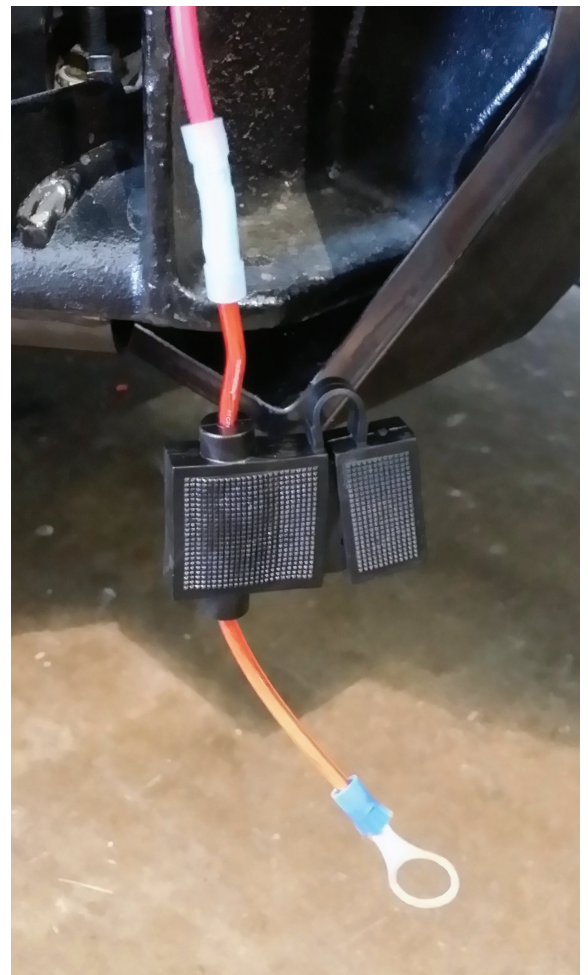
white - ground  
green - tail light  
blue - brake  
brown - left turn  
yellow - right turn

***w/ 07664 5 to 4 Converter***

white - ground  
green - tail light  
blue - not used  
brown - left turn / brake  
yellow - right turn / brake

10. Insert the fuse into the fuse holder. If you are using LED lights, you should install a smaller amp fuse.

11. Test functions from your isolator wires. Reassemble vehicle.





## 5 to 4 Converter for 07660

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### Part Listing

- 
- 1 5 to 4 Converter Module
- 1 red 1/4" ring terminal

### Tools / Supplies Required

- 
- wire stripper
- wire crimper



- CAUTION:** a. this unit is designed to reconfigure your Electrical Connection trailer isolator from an "Import" style (5 wire) to a "Domestic" style (4 wire) output. It has not been designed to power lights directly. Installing this unit in any other manner will cause the unit to fail and voids all warranty.
- b. The black wire on the module **MUST** be grounded. Failure to ground the module before applying power will cause the module to be damaged and is **NOT** covered under warranty.

The installation is a daisy chain; (bike) sub-harness - 5 to 4 Converter - isolator (trailer).

1. If your Sub-Harness has not been installed yet, follow the installation instructions provided with the subharness and install it now.
2. If your isolator is already installed, unplug the 4 pin connector between it and the Sub-Harness.
3. Your converter will plug in between the subharness and the isolator. There is only one direction it will install.
4. Connect the black wire as follows;
  - a. If your Isolator has a black wire with matching connector, ground the black wire to the Isolator.
  - b. If your Isolator does not have a black wire with matching connector, ground the black wire to the battery negative terminal or the frame. Use the supplied red ring terminal to replace the bullet connector.
5. The white wire with red butt connector **DOES NOT** need to be connected for operation. Because only 3 of the 4 relays will be used, you may use the additional relay to power any accessory of your choice up to 7.5 amps (maximum draw). To do this, connect the following:

white wire - connect to switched + to turn the relay on.  
blue wire from the trailer relay output to your accessory. We suggest adding a fuse to this wire.
6. Finish the installation by following the instructions from your Isolator.