

**Installation Instructions**  
**VCC007-51**  
**2018 Gold Wing 5 to 4 wire trailer lighting converter**

This unit is designed to convert the 5 wire or separate tail and brake light wire outputs (standard on 2018 Gold Wing Models) from the motorcycle to a 4-wire system (used on U.S. cars and trailer lighting) which combines the brake and turn signal functions.

**NOTE: CAUTION!**

This unit is designed to be used in conjunction with our trailer wiring isolator only. It will **NOT** power the trailer lights directly. Doing so will cause it to fail and voids the warranty.

**NOTE:** The use of an isolator (**TWC003**) is necessary as it provides full voltage and amperage to the trailer lights as well as protecting the wiring and electronics of the motorcycle.

1. **If you are using a plug in sub harness with a plug that mates to the 5 to 4 wire convertor**, connect it to the motorcycle's wiring as described in the instructions included with it or the trailer hitch. Next, plug the 5 to 4 wire convertor into the sub harness. There is only one direction that it will plug in. Using the supplied ring terminal, connect the black wire to ground (-)
2. **If you are using a plug-in sub harness that connects to the motorcycle but without a plug mating to the 5 to 4 wire convertor**, remove the plug from the 5 to 4 wire convertor and make the connections to the wire ends of this sub harness using butt (end to end) connectors (not supplied) to the wire ends of the 5 to 4 wire convertor. Follow the diagrams supplied. NOTE: do this by mating the wires according to the function described in the diagram and instructions and NOT necessarily matching color to color. This is due to different motorcycle and trailer manufacturers using different color codes for functions. Using the supplied ring terminal, connect the black wire to ground (-)
3. **If you are not using a sub harness**, remove the plug from the 5 to 4 wire convertor and make the connections directly to the motorcycle's tail light wires following the diagrams supplied, using 3-way crimp on "scotch-loc" connectors (not supplied). Usually this is easiest to access beneath the seat where the tail light wires plug into the main wire harness. NOTE: do this by mating the wires according to the function described in the diagram and using a test light or meter to determine their function on the motorcycle and NOT necessarily matching color to color. This is due to different motorcycle and trailer manufacturers using different color codes for functions. Using the supplied ring terminal, connect the black wire to ground (-)
4. Connect the isolator to the 5 to 4 wire converter using the mating plugs on both. Secure the isolator to the motorcycle using the adhesive tape supplied or cable ties. Determine where you want your trailer plug located. Route the wires from the isolator to this location and secure it using the cable ties supplied. Connect your desired trailer plug to the wires of the isolator following their color codes and function. Most 4-wire trailer plugs function/color is as follows.

Green = Right turn and stop  
 Yellow = Left turn and stop  
 Brown = Tail  
 White = Ground

to Isolator Blue  
 to Isolator Orange  
 to Isolator Brown  
 to Isolator Black

- Because only 3 of the 4 relays or circuits in the isolator are being used, you may use the remaining circuit to power an accessory on or in your trailer (with a maximum 7.5 amp draw) such as an interior light or 12V power outlet. This will then require the use of a plug with at least 5 wire connections or pins. To do this as shown in the supplied wiring diagram, connect the remaining white wire from the 5 to 4 wire converter's plug to any wire from the motorcycle that has power with the ignition on. Connect the Green wire from the isolator to the trailer plug wire or pin you wish to use to power your accessory.

## VCC007-51 + TWC004 CAN-BUS ISOLATOR UNIT WIRING DIAGRAM 4-WIRE TRAILER

