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### **Installation Instructions (3 pages)**

**Item 3333: Rear Turn Signal Integrator Assembly (removes rear turn signal). Converts dual bulb rear brake lights into turn signals**

**Application: Motorcycles with dual bulb brake lights such as: Aprilia, Honda, Kawasaki, Suzuki, Yamaha, Triumph**

#### **Parts List:**

One (1) Turn Signal Converter Module

Nine (9) pieces of cut to length heat shrink tubing.

#### **Tools & Materials List:**

Socket set; combination wrench set; Allen wrenches; Screw drivers both straight and Phillips head; wire cutters; heat gun or matches; volt-meter or circuit tester; pliers, soldering iron and solder.

#### **Precautions:**

This product must be installed by a qualified person who has an understanding of electrical wiring. If you are not certain of any of these steps (especially steps 6 and 7) seek expert help. If you improperly attach the wiring it will not function or worse damage sensitive electrical components.

#### **Install Steps:**

**Note: Confirm your brake, tail and turn signal lights are fully operational. The Turn Signal Integrator Kit will not operate if you have a pre-existing electrical problem. Resolve all pre-existing electrical problems before proceeding. All connections must be confirmed and completed before the Turn Signal Integrator Assembly will properly function. We prefer to solder our connections and then apply heat shrink for electrical insulation. This takes little more time but looks proper and is easier to route the wiring in the tail section later.**



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1. Remove the seat.
2. Remove passenger seat or rear seat cowl.
3. Remove Brake lights from the taillight assembly.
4. Remove Tail Section.
5. Determine proper placement of the Turn Signal Converter Module where it will be protected. Possibilities include front of the tail light assembly, sub frame, side panels, etc. The Turn Signal Converter Module must be securely mounted in place. You can then determine the length of the wires prior to cutting and soldering.
6. Remove the tail light connector and then determine the: 1. Ground wire; 2. Brake wire; 3. Tail light wire 4; Left turn wire; Right turn wire. Use a volt meter, apply power and confirm the above and make a note of the color of each wire. Disconnect Battery before making connections. These are typical wiring designations but please use your volt meter to confirm. **NOTE:** Locate wires and pin location by function only. Color coding is not standard among all, manufacturers.

Motorcycle Function	Aprilia Color	Honda Color	Kawasaki Color
Ground	Blue	Green	Black and Yellow
Brake light	Yellow and Green	Green and Yellow	Blue or Blue and Red
Left Turn	Light Blue	Orange	Green
Right Turn	Red	Blue	Grey
Tail Light	Yellow	Brown	Red

Motorcycle Function	Suzuki Color	Yamaha Color	Triumph Color
Ground	Black and White	Black	Black
Brake light	White and Black	Yellow	Blue
Left Turn	Black	Brown	Green and Red
Right Turn	Green	Green	Green and White
Tail Light	Brown	Blue	Red

7. Now take a look at the Turn Signal Converter Module. It has five (5) wires on the left side and four (4) wires on the right side. The left side (5 wires) connects to the motorcycle wiring and the left and right turn signals. The right side (4 wires) of the module connects to your two tail light bulbs. These are the wiring designations for both left and right side Turn Signal Converter Module:

Note: The color coded wires are marked as well.

**Turn Signal Converter Module Function**

Brake Light: Red  
 Left Turn: Yellow  
 Right Turn: Green  
 Tail Light: Brown  
 Ground: White



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8. Connect all five (5) wires on left side of the Turn Signal Converter Module to the motorcycle wiring harness. Determine the length of each wire for proper routing at this time and then cut the wire (see step 5).
- 8.1 Solder and heat shrink Right Turn Signal: Green (see step 7) to Motorcycle Right turn wire (see step 6). Note: do not connect black wire on the turn signal just the colored wire. The black wire is not required to be connected.
- 8.2 Solder and heat shrink Left Turn Signal: Yellow (see step 7) to Motorcycle Right turn wire (see step 6). Note: do not connect black wire on the turn signal just the colored wire. The black wire is not required to be connected.
- 8.3 Solder and heat shrink Brake Light: Red (see step 7) to the Motorcycle brake light wire (see step 6).
- 8.4 Solder and heat shrink Tail Light: Brown (see step 7) to the Motorcycle tail light wire (see step 6).
- 8.5 Solder and heat shrink Ground wire: white
- 8.6 This completes the five (5) wire connection of the left side of the Turn Signal Converter Module.
9. Connect all four (4) wires on right side of the Turn Signal Converter Module to the tail lights. Determine the length of each wire for proper routing at this time and then cut the wire (see step 5).
- 9.1 You now have four wires from the two tail lights to connect to the right side of the Turn Signal Converter Module; you need to combine the tail light wires together.
- 9.2 Solder and heat shrink Tail Light: Brown (see step 7) combine the taillight wires (see step 6 to confirm the color).
- 9.3 Solder and heat shrink Left Turn Brake: Yellow to the left turn tail light wire (see step 6 to confirm the color).
- 9.4 Solder and heat shrink Right Turn Brake: Green to the right turn tail light wire (see step 6 to confirm the color).
- 9.5 This completes all of the wire connections to the Turn Signal Converter Module
10. Apply power and test the tail, brake and left and right turn signal function. Ensure all three functions work properly. Double check all connections.
11. Disconnect battery and confirm that the Turn Signal Converter Module is secure and route the wiring so that that is not in the way (see step 5).
12. Install Tail Section (see step 4)
13. Install Brake lights from the taillight assembly (see step 3).
14. Install passenger seat or rear seat cowl (see step 2).
15. Connect the black negative lead and install the seat (see step 1).
16. Take a short test ride and double-check your work.

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#### Warranty and Remedy:

Skyking hereby warrants that at the time of delivery thereof the parts bought will be free from defects in material and workmanship and will conform to the requirements the order for a period of 30 days. Skyking assumes no liability for faulty or improper installation or use. All claims under this warranty must be made in writing to Skyking. Upon receipt of authorization from Skyking, the parts claimed to defective or non-conforming must be returned freight prepaid, to Skyking. Skyking will repair, or its option, replace any defective or non-conforming parts and will return the repaired part or its replacement without charge. The failure to give Skyking written notice of any claim hereunder within the warranty period shall constitute a waiver of all claims hereunder. The foregoing states Skyking's remedy for any breach of warranty and for any claim whether sounding in contract or tort, based upon any defect in Skyking's parts. This warranty does not extend to the parts that have been altered or repaired, nor does it extend to parts that have been subjected to misuse, neglect, accident, or improper installation. Skyking shall not, in any event, be liable for any incidental or consequential damages nor for any other damages more than the purchase price for the part. By accepting and or installing this item you fully agree to the terms and conditions of the warranty. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, WRITTEN, ORAL, OR IMPLIED, INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.