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EVO: Electrical System - Sub-03G

BASIC TESTING of Turn Signal Wiring

For 1991 - 2013 Models

Disconnect the Turn Signal Module from the wiring harness connector. Testing will be done on that wiring harness connector.
For 1991-2003, the module is under the seat. For 2004-2013, the battery must be removed to withdraw the module located under the battery.

Look at the wiring diagram for your module. Identify the FEED OUT & SWITCH IN pin numbers as shown on the diagram.

Identify the two wires (BROWN wire for RIGHT-side & VIOLET wire for LEFT-side) that feed power to the lights. Find the two wires (WHITE/BROWN wire for RIGHT-side & WHITE/VIOLET wire for LEFT-side) that are incoming from the handlebar switches.

The connector pin with incoming power is Pin2, Accessory Power, using an ORANGE wire or ORANGE/White or GREY wire. **BE VERY CAREFUL HERE!** This power is fused but will allow many amps of power to flow before blowing. BE VERY CAREFUL not to short this pin to ground!

BEING VERY CAREFUL not to short any other pins:
With the TS module disconnected and the Keyswitch **ON**, CAREFULLY put a jumper BRIEFLY between Pin2 (Power into the module) and the pin that is identified as RIGHT FEED OUT (BROWN wire). The RIGHT TS lights (both front & rear) & indicator should light up.

Now, CAREFULLY move that jumper BRIEFLY between Pin2 (Power into the module) and the pin that is identified as LEFT FEED OUT (VIOLET wire). The LEFT TS lights (both front & rear) & indicator should light up.

Now you need a multimeter to check the incoming signal from the handlebar switches. Set the meter to 20v DC voltage. Place the BLACK probe on a good ground. The connector will have a BLACK wire for ground on Pin1 (for rigid mount models) or Pin12 (for rubbermount modules). See the wiring diagram.

With the TS module disconnected and the Keyswitch **ON**, CAREFULLY put the RED meter probe on the pin identified as RIGHT SWITCH IN (WHITE/Brown wire). Press the RIGHT-side TS Switch, then check the meter to see if it is getting the 12v input signal.

Move the RED meter probe to the pin identified as LEFT SWITCH IN (WHITE/Violet wire). Press the LEFT-

side TS Switch, then check the meter to see if it is getting the 12v input signal.

For 2014 - 2021 Models

ONLY THE OUTPUT wiring to the Turn Signal lights will be tested. Because the handlebar switches use the CANbus to communicate with the BCM, it cannot be simply tested.

Disconnect the Body Control Module (BCM) from the wiring harness connector. Testing will be done on that wiring harness connector.

Look at the BCM wiring diagram.
All the BCMs use the following pins for power to the TS lights:
Front Right - PinJ2 - BLUE/Orange wire
Front Left — PinJ4 - BLUE/Pink wire
Rear Right – PinK2 - BLUE/Brown wire
Rear Left — PinK4 - BLUE/Violet wire

Pin1 has constant BATTERY POWER - **BE VERY CAREFUL HERE!** This power is fused thru the Main Fuse which will allow **40amps** of power to flow before blowing. **BE VERY CAREFUL** not to short this pin to ground!

With the TS module disconnected and the KEYSWITCH OFF, CAREFULLY put a jumper BRIEFLY between Pin1 (Power into the module) and one of the above identified pins. As power is applied to each pin, the identified TS light should be lit.

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