



!! READ INSTRUCTIONS BEFORE CUTTING ANY WIRES !!

The OTB_POL-TPS-09-P repair harness is intended to repair and upgrade the common problem of broken throttle position sensor wires on 2009 -Up 500, 550XP, 850XP, and 2011-Up 800 Sportsman and Ranger ATV's. The problem with the current Polaris wiring is that it is too short and the mounting location of the sensor is in a very bad location where vibration is prevalent. This combination causes the wires to fail where they enter the connector after a short period of time. The product you are installing not only lengthens the wire but the wires used in this product are vibration resistant wires that have more strands and a thick insulation to help support the wire.

Tools Required:

1. Wire cutters
2. Wire strippers
3. 18-22 AWG crimping pliers
4. Heat gun or hair dryer
5. Standard hand tools

Installation Instructions:

1. Remove seat of ATV.
2. On XP Series Sportsman ATVs remove the left side panel to gain access to the throttle body. On the 500cc and 800cc Sportsman remove the right side panel.
3. Unplug the 3 pin connector from the TPS sensor located on the side of the throttle body by pressing down the latch on the top of the connector and gently pulling.
4. The back side of the 3 pin TPS connector you disconnected in step 3 has small position numbers 1-2-3 below the wires where they attach to the connector. Write down the factory wire colors for each number. **This is a very crucial step.** Failure to do this will result in you having to find a service manual to determine which wire colors go to which position.

Position 1 Wire Color is _____

Position 2 Wire Color is _____

Position 3 Wire Color is _____

5. Now that you have written down all the existing wire colors. Take the wire cutters and cut each wire off of the old connector.
6. Remove approximately one quarter inch of insulation from each wire.
7. Connect each wire from the chart in step 4 one at a time. Use the 18-22 AWG crimping pliers and crimp each wire.
 - a. Position 1 wire color you wrote down goes to RED.
 - b. Position 2 wire color you wrote down goes to BLACK.
 - c. Position 3 wire color you wrote down goes to YELLOW.
8. Take the Heat gun or hair dryer and heat up the 3 connections that you made. The appropriate amount of heat has been applied when you see the glue coming out the back of each splice. Your repair should look like the wires that are already attached.
9. Slide the black heat shrink tubing over the entire repair and use the heat gun to shrink the tubing over the whole splice.
10. Route the new wire and connector up to the sensor and plug it in. Make sure the wire harness does not have any sharp kinks or bends and is out of the way from hot components such as the exhaust. Also ensure that the wire has room to move and is not pulled tight.
11. Replace side panels and seat.
12. Start ATV and verify operation and drivability.
13. Enjoy not having to worry about repairing this connection again.

Disclaimer:

By installing this product you agree that OTB Powersports products make no representations or warranties, either express or implied, of any kind with respect to the product sold. You agree that in no event shall OTB Powersports be liable for indirect, consequential, or punitive damages related to the installation or use of this product. Please do yourself a favor, if you don't know how to perform basic wiring repair or don't own the tools, get the tools and or have a qualified person install the product for you.