



!! READ INSTRUCTIONS BEFORE CUTTING ANY WIRES !!

The OTB-POL-HBR-09-20 is intended to repair and upgrade Polaris ATV handlebar control switch wiring harnesses on the right hand control. This high quality 20 inch long handlebar control switch repair harness features mil spec flexible wire that won't break over time with handle bar movement. Polaris ATV's use 3 of these harnesses. Two of them are on the left handle bar control and one is on the right handle bar control. We suggest replacing all 3 of them as a set. Some symptoms of bad handle bar control wiring are:

- Vehicle loses all power when driving over rough terrain
- Vehicle loses all power when turning handle bars
- Headlights intermittently turn on and off when turning handle bars or driving over rough terrain
- Reverse override switch does not function properly
- Throttle safety switch limits vehicle speed
- Codes SPN 520194 FMI 7, FMI 2, FMI 3 May be present
- AWD may be intermittent or not function

Tools Required:

1. Wire cutters
2. Wire strippers
3. 18-22 AWG crimping pliers
4. Heat gun or hair dryer
5. Common Hand Tools
6. 6 Inch Black UV resistant zip ties.

Installation Instructions:

1. Remove rack if equipped and remove the front cab cover.
2. Disassemble the front light pod.
3. Cut the handlebar control wire zip ties.
4. Disconnect the old handlebar control wiring harness from the control by pressing the connector release detent located underneath the control switch.
5. Plug in the new handlebar control harness into the switch.
6. Route the new harness around the handlebars and through the headlight pod so that they are positioned similar to the old harness.
7. Pull the old harness from the handlebars and out of the light pod.

8. The back side of the 5 pin connector you disconnected in step 4 has small position letters 1-2-3-4-5 above the wires where they attach to the connector. Write down the wire colors for each letter. **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. (Note: On some machines not all the wires will be used. Write “Blank” where there are no wires.)

Position 1 Wire Color is _____

Position 2 Wire Color is _____

Position 3 Wire Color is _____

Position 4 Wire Color is _____

Position 5 Wire Color is _____

9. Now that you have written down all the existing wire colors. Take the wire cutters and cut the original harness wires in the cab area about 4 inches longer than where the sealed butt splices end on the new harness. This will give adequate room for wire movement when the handle bars are turned.
10. Remove approximately one quarter inch of insulation from each wire.
11. Connect each wire from the chart in step 3 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.
 - d. Position 4 wire color you wrote down goes to GREEN.
 - e. Position 5 wire color you wrote down goes to BLUE.
12. Take the Heat gun or hair dryer and heat up the 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 splices should look like the wires that are already attached to the harness.
13. Slide the black heat shrink tubing over the entire repair and use the heat gun to shrink the tubing over the whole splice.
14. Use the 6 inch zip ties and re-attach the new handle bar control harness to the handle bars. Make sure the harness has room for movement and no cables or wiring is pulled tight when the handle bars are turned fully in each direction.
15. Reassemble front cab, rack, and headlight pod.
16. Start vehicle and verify operation and drivability.
17. 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.