



## Custom Dynamics® Throttle-By-Wire Extension Kit Installation Instructions

We thank you for purchasing the Custom Dynamics® Throttle-By-Wire Extension Kit. Our products utilize the latest technology and high quality components to ensure you the most reliable service. We offer one of the best warranty programs in the industry and we back our products with excellent customer support, if you have questions before or during installation of this product please call Custom Dynamics® at 1(800) 382-1388.

**Part Numbers:** CD-BAR-EXT-3

**Package Contents:**

- 12" Throttle-By-Wire Extension Wires (6)
- Heat Shrink 2.5" (6)
- Heat Shrink 11" (1)

**Fits:** '08-'13 FLHT, FLHR, FLHX, FLTR, and H-D Trikes



### ATTENTION

Please read all Information below before Installation

**Warning:** Disconnect negative battery cable from battery; refer to owner's manual. Failure to do so may result in electrical shock, injury, or fire. Secure negative battery cable away from positive side of battery and all other positive voltage sources on vehicle.

**Safety First:** Always wear appropriate safety gear including safety glasses when performing any electrical work. It is highly recommended that safety glasses be worn throughout this installation process. Be sure vehicle is on level surface, secure and cool.

**Installation:**

1. Locate and disconnect the six position Throttle-By-Wire (TBW) Molex Connector.  
**Batwing fairings-** Connector located inside the fairing on the right side fairing bracket next to the right speaker.  
**Road Glide-** Connector located inside the fairing underneath the right side speaker.  
**Road King-** Connector located behind the headlight in the Nacelle.
  2. Remove the TBW wires by removing pins from the male connector. Note wire color and position before removal. Refer to page two for directions on removing pins from the Molex Connector.
  3. Remove TBW assembly and harness from handlebar.
  4. Connect the male pins of the TBW wires to the provided wire extension female pins. Color match wire extensions to the TBW wires.
  5. Slide and center 2.5" heat shrink sleeve over the pin connections to insulate and protect the wires and pins. Then slide 7" heat shrink over all wires. Use heat gun to shrink tubing.
  6. Route TBW harness back through the handlebars.
  7. Insert wire pins into corresponding connector position. Reference Picture 4.
- NOTE:** The Extension wires will match with the wiring on the TBW but not with the mating female Molex Connector. Note each wire position in the connector before removal. The diagram below lists wire position in the connector.
8. Reconnect the six position TBW Molex Connector back to the bikes harness.
  9. Reconnect the battery and test the functionality of all handlebar switches and throttle.

**Wires**

1. Gray
2. Violet
3. Red
4. Black
5. Blue
6. Brown



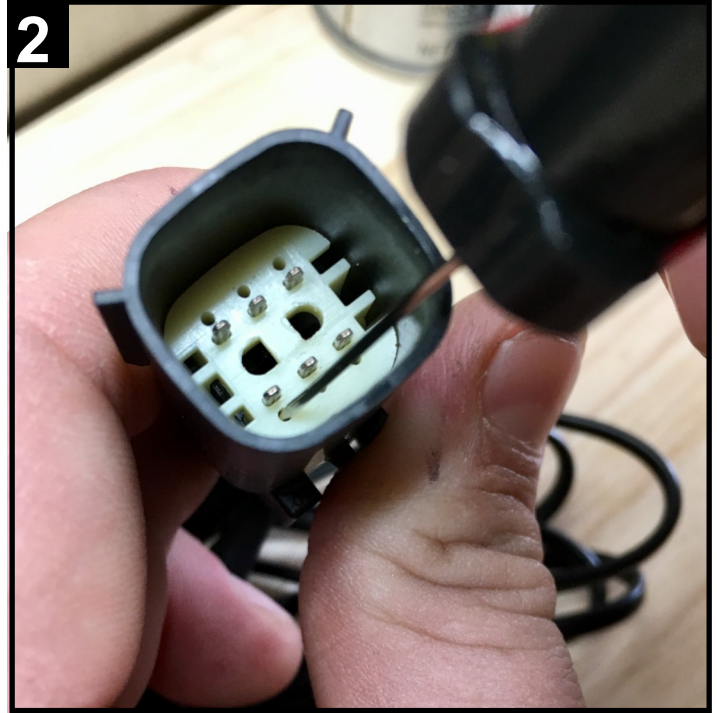
Questions? Call us at: 1 (800) 382-1388 M-TH 8:30AM-5:30PM / FR 9:30AM-5:30PM EST

## Installation Instructions - Page 2.

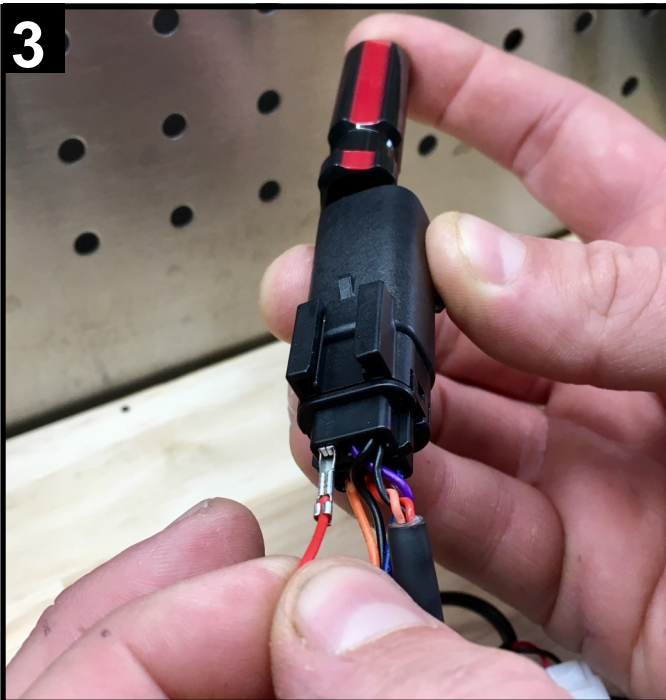
1. Unlock the secondary lock pin housing inside of male connector by placing a set of small needle nose pliers into the service holes and pull outward until it clicks into place.



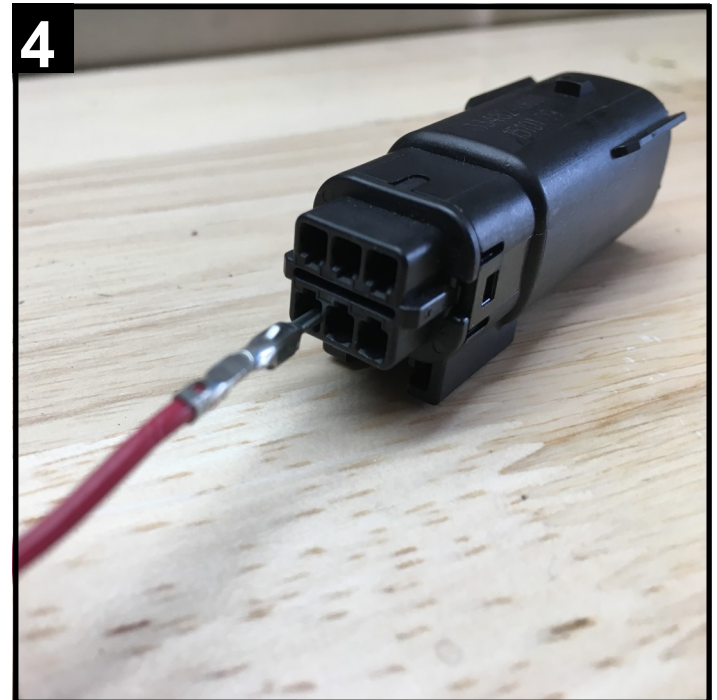
2. Once the secondary lock pin housing is unlocked, insert terminal release tool.



3. Pull wire to remove from the connector.



4. Replace each existing wire with our extended wires per color. Once all wires are inserted, push down on the secondary lock pin housing to lock in place.



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