www.namzccp.com

**NAMZ Custom Cycle Products, Inc**
1440 Ulmer Avenue
Oreland, PA 19075

**Technical Support is available Monday-Friday, 9am-5pm EST via email at tech@namzccp.com.**

**Part Number:** NTBW-32310-08, NTBW-32310-08A & NTBW-32700050A




**Fitment:**
**NTBW-32310-08**: NAMZ Replacement Twist Grip Sensor for all Throttle-by-Wire motorcycles from 2008 through 2013 ONLY, 100% plug-n-play.

**NTBW-32310-08A**: NAMZ Replacement Twist Grip Sensor for all Throttle-by-Wire motorcycles from 2014 through 2015 ONLY, 100% plug-n-play.

**NTBW-32700050A**: NAMZ Replacement Twist Grip Sensor for all Throttle-by-Wire motorcycles from 2016-Up ONLY, ready to install, 100% plug-n-play.

**What is included in this kit?**
- Twist grip sensor
- Male connector for NTBW-32310-08
- Female connector for NTBW-32310-08A

**Recommended tools:**
- A wire fishing tool for routing through bars
- Electrical tape

**WARNING!**

*This product should be installed by a professional motorcycle technician or reputable shop/ dealership.*
*Improper installation may result in improper throttle control or trouble codes.*

**Installation instructions:**
1. Be sure your ignition is in the off position.
2. Remove the right side handlebar control switch housing in order to remove the grip.
3. Once the grip is removed, locate the connector in the fairing or nacelle for the TGS or twist grip sensor and disconnect.

**NOTE:** *For 2008 through 2015 models, you will need to de-pin the Molex connector by pulling up on the inner off-white locking TPA until you here a "click" as this will release the terminals and allow them to be removed with the help of a large paper clip or terminal removal tool.*

4. With the connector removed, you are ready to carefully pull the twist grip out of the right side of the handlebar slowly, guiding the harness through the bars with care.

**NOTE:** *If you replacing a twist grip sensor from a CVO, the wiring harness is hardwired into the TGS, all other models from 2008 through 2015 have a disconnect that uses a small green connector in the handlebar. It is only 8" away from the TGS and sometimes can get jammed when being pulled past switch housing wiring or become disconnected so proceed with care.*

5. Once the harness is removed from the failed TGS, simply run a fish through the right end of the handlebar and out the middle hole of the bars at the riser clamp and tape on our wiring harness from the new TGS.
6. Slowly pull the fish wire through the bars being extra careful not to damage the installed terminals/connector.
7. Now that you have the harness through the handlebars, set the TGS into the notches on the end of the bar and route the wiring to the mating connector.
8. If you are installing our TGS on a 2008 through 2013 model, see pinout PIC-1.
9. If you are installing our TGS on a 2014 through 2015 model, see pinout PIC-2.

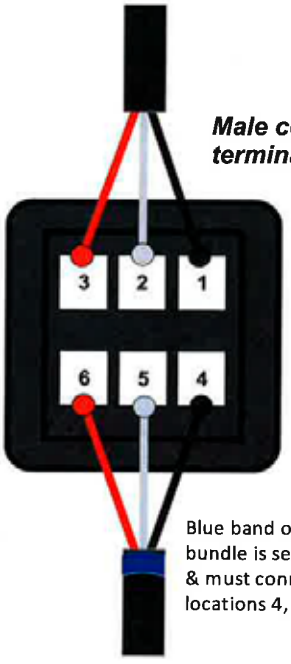
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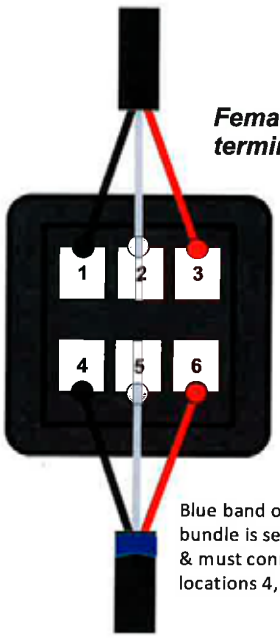
***Male connector & terminals, 2008-2013***




*(Included HD# 7218807BK)*
Twist Grip Connector
(pinout from backside of connector, where wires go in)

Blue band on wire bundle is sensor #1 & must connected in locations 4, 5 & 6.

***Female connector & terminals, 2014-2015***




*(Included HD# HD# 7241407BK)*
Twist Grip Connector
(pinout from backside of connector, where wires go in)

Blue band on wire bundle is sensor #1 & must connected in locations 4, 5 & 6.