



Trigger Wizard
 Universal - DNL.WHS.20600



Thank you for choosing DENALI

We know you would rather be riding your bike than wrenching on it, so we go the extra mile to make sure our instructions are clear and as easy to understand as possible. If you have any questions, comments, or suggestions don't hesitate to give our gear experts a call at 401.360.2550 or visit WWW.DENALIELECTRONICS.COM

Please Read Before Installing

DENALI products should always be installed by a qualified motorcycle technician. If you are unsure of your ability to properly install a product, please have the product installed by your local motorcycle dealer. DENALI takes no responsibility for damages caused by improper installation. **Caution:** When installing electronics is it extremely important to pay close attention to how wires are routed, especially when mounting products to the front fender, front forks, or fairing of your motorcycle. Always be sure to turn the handlebars fully left, fully right, and fully compress the suspension to ensure the wires will not bind and have enough slack for your motorcycle to operate properly.

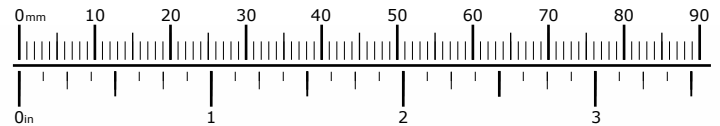
Installation Tips

We strongly recommend using medium strength liquid thread locker on all screws, nuts, and bolts. It is also important to ensure that all hardware is tightened to the proper torque specifications as listed in your owner's manual. For included accessory hardware please refer to the default torque specifications provided below. Inspect all hardware after the first 30 miles to ensure proper torque specifications are maintained.

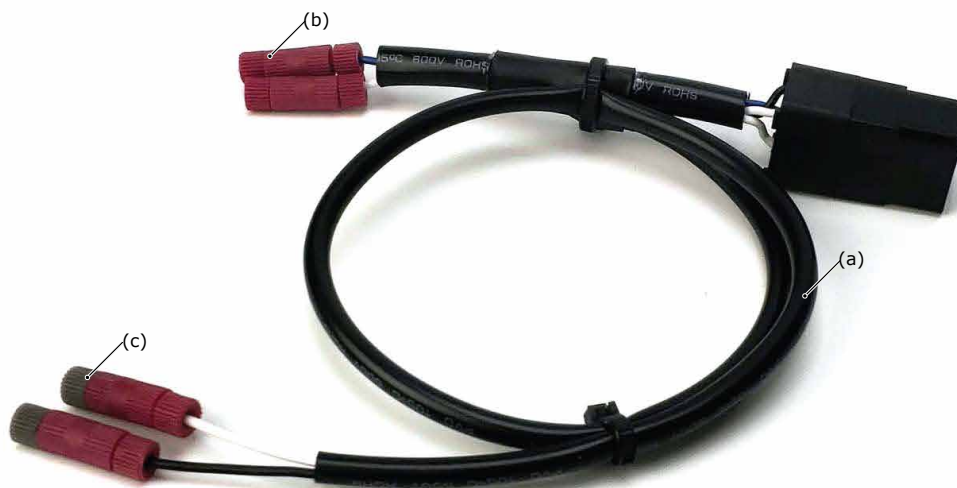
Bolt Size	in-lbs	ft-lbs	Nm
M3	10.0 in-lbs	-	1.0 Nm
M4	23.0 in-lbs	-	2.5 Nm
M5	44.5 in-lbs	3.5 ft-lbs	5.0 Nm
M6	78.0 in-lbs	6.5 ft-lbs	9.0 Nm
M8	-	13.5 ft-lbs	18.0 Nm
M10	-	30.0 ft-lbs	41.0 Nm
M12	-	52.0 ft-lbs	71.0 Nm

Hardware Sizing Guide

Not sure what size bolt you have? Use this ruler to measure screws, bolts, spacers, etc. Remember, the length of a screw or bolt is measured from the start of the "mounting surface" to the end of the screw, so only include the screw head when measuring countersunk screws.



Whats In The Box?



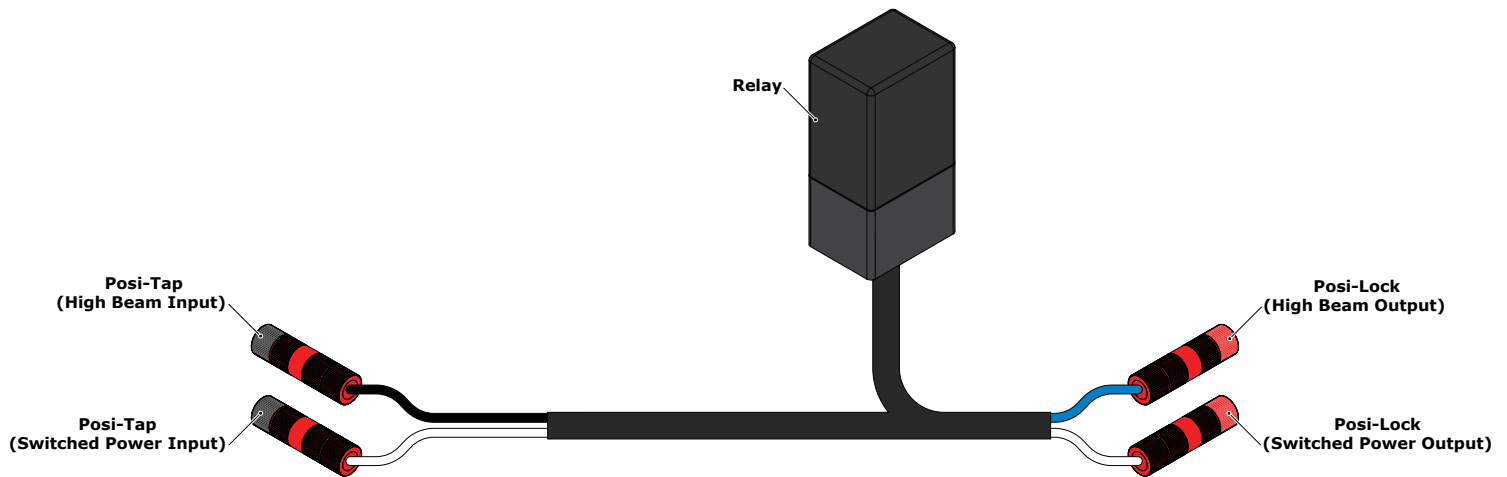
Kit Contents

- (a) Universal Trigger Wizard Harness.....Qty 1
- (b) Posi-Lock Connector (Pre-Installed).....Qty 2
- (c) Posi-Tap Connector (Pre-Installed).....Qty 2

Tools Required

Voltmeter/Multimeter

1. Harness Overview



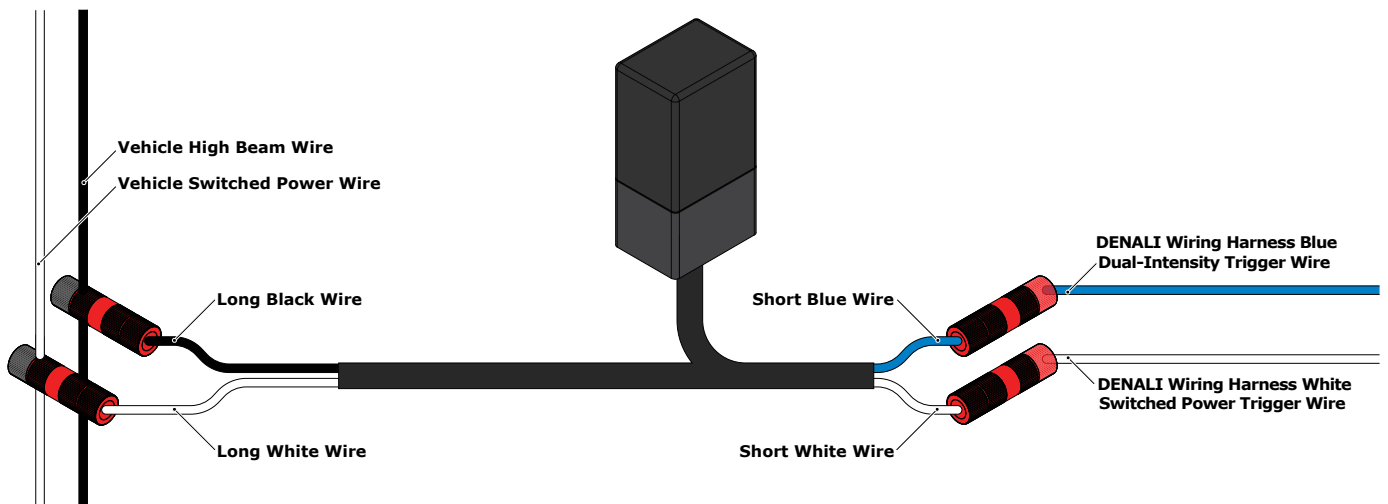
1.1 - Overview Of Harness

Some vehicles with factory equipped LED headlights utilize ground switching to control the high beam. This style of switching does not provide the proper 12v+ signal required to trigger the "High/Low Sync" feature of our DataDim or DialDim Controllers.

The DENALI Trigger Wizard fixes this incompatibility by converting the ground switched signal from the vehicle to a positive switched signal, allowing our controllers to correctly sync your aftermarket lights with the vehicles factory high and low beam.

For universal applications continue to *Section 2*, or for vehicle specific installs, continue to the later sections.

2. Connecting The Harness (Universal)



2.1 - Identifying Wires & Connecting

First you will need to locate the vehicle's high beam wire. When testing with a voltmeter, ground switching will give you the opposite results of a standard positive switched headlight. Meaning when the high beam is ON you will see 0v on the high beam wire (*or a very minimal voltage*), however when the high beam is OFF you will see 12v+.

Step One: Locate the vehicle's headlight connector, then use a voltmeter to probe the wires while toggling the vehicle's high beam switch to identify the wire which loses power upon high beam activation.

Step Two: Once the high beam wire has been identified, use the pre-installed Posi-Tap to tap the long black wire of the Trigger Wizard into the high beam wire.

You will also need to locate a 12v+ switched power wire. A clean switched power source will only be live when the ignition is cycled ON, it should lose power when the ignition is cycled OFF.

Step Three: Use a voltmeter to probe the wires while toggling the vehicle's ignition to identify the wire which loses power upon turning OFF the vehicle's ignition.

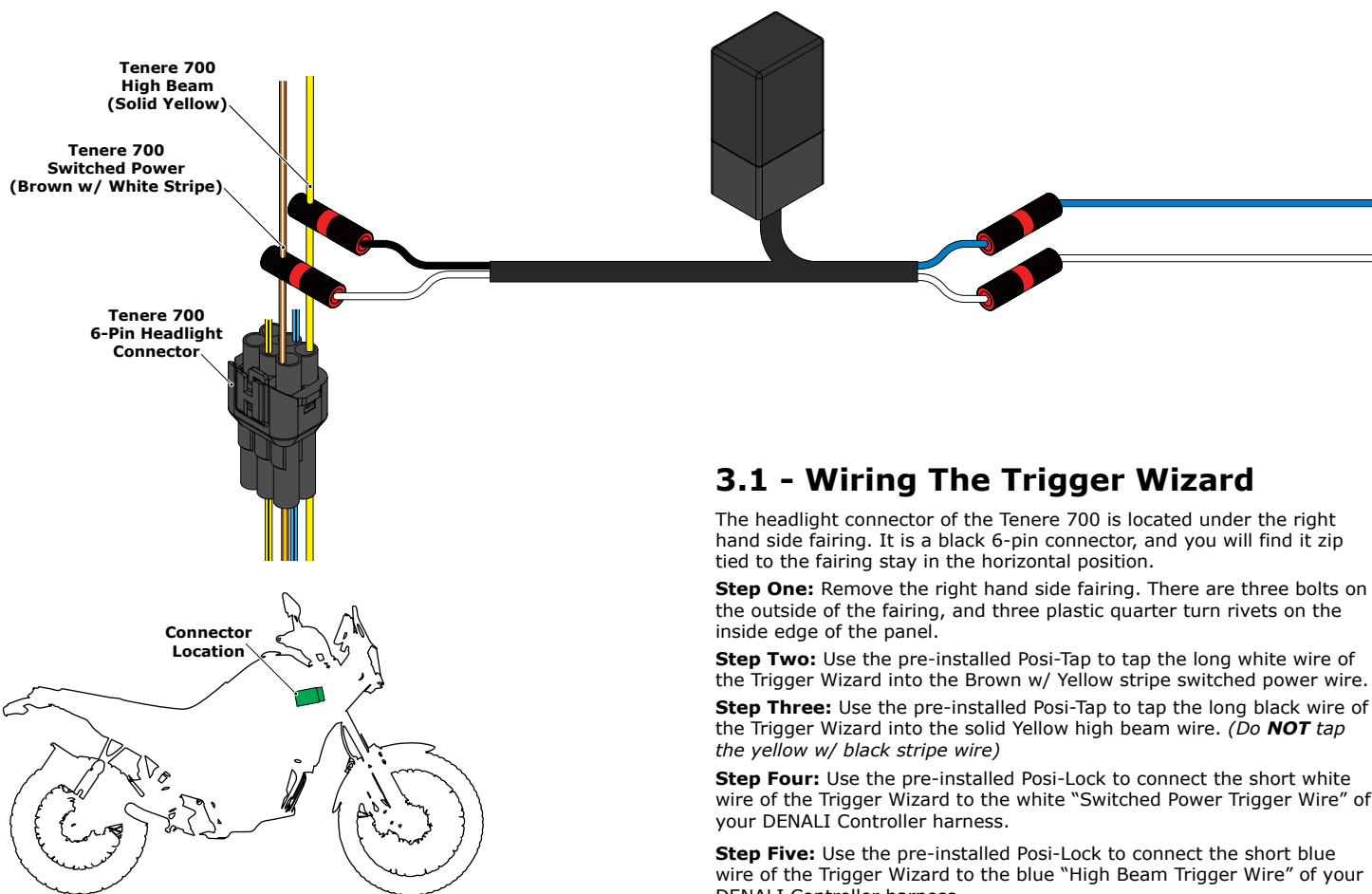
Step Four: Once the switched power wire has been identified, use the pre-installed Posi-Tap to tap the long white wire of the Trigger Wizard into the switched power wire.

Finally, you will need to connect the Trigger Wizard to your DENALI DataDim or DialDim Controller (Sold Separately).

Step Five: Use the pre-installed Posi-Lock to connect the short white wire of the Trigger Wizard to the white "Switched Power Trigger Wire" of your DENALI Controller harness.

Step Six: Use the pre-installed Posi-Lock to connect the short blue wire of the Trigger Wizard to the blue "High Beam Trigger Wire" of your DENALI Controller harness.

3. Example Install (Yamaha Tenere 700 '21-'22)



3.1 - Wiring The Trigger Wizard

The headlight connector of the Tenere 700 is located under the right hand side fairing. It is a black 6-pin connector, and you will find it zip tied to the fairing stay in the horizontal position.

Step One: Remove the right hand side fairing. There are three bolts on the outside of the fairing, and three plastic quarter turn rivets on the inside edge of the panel.

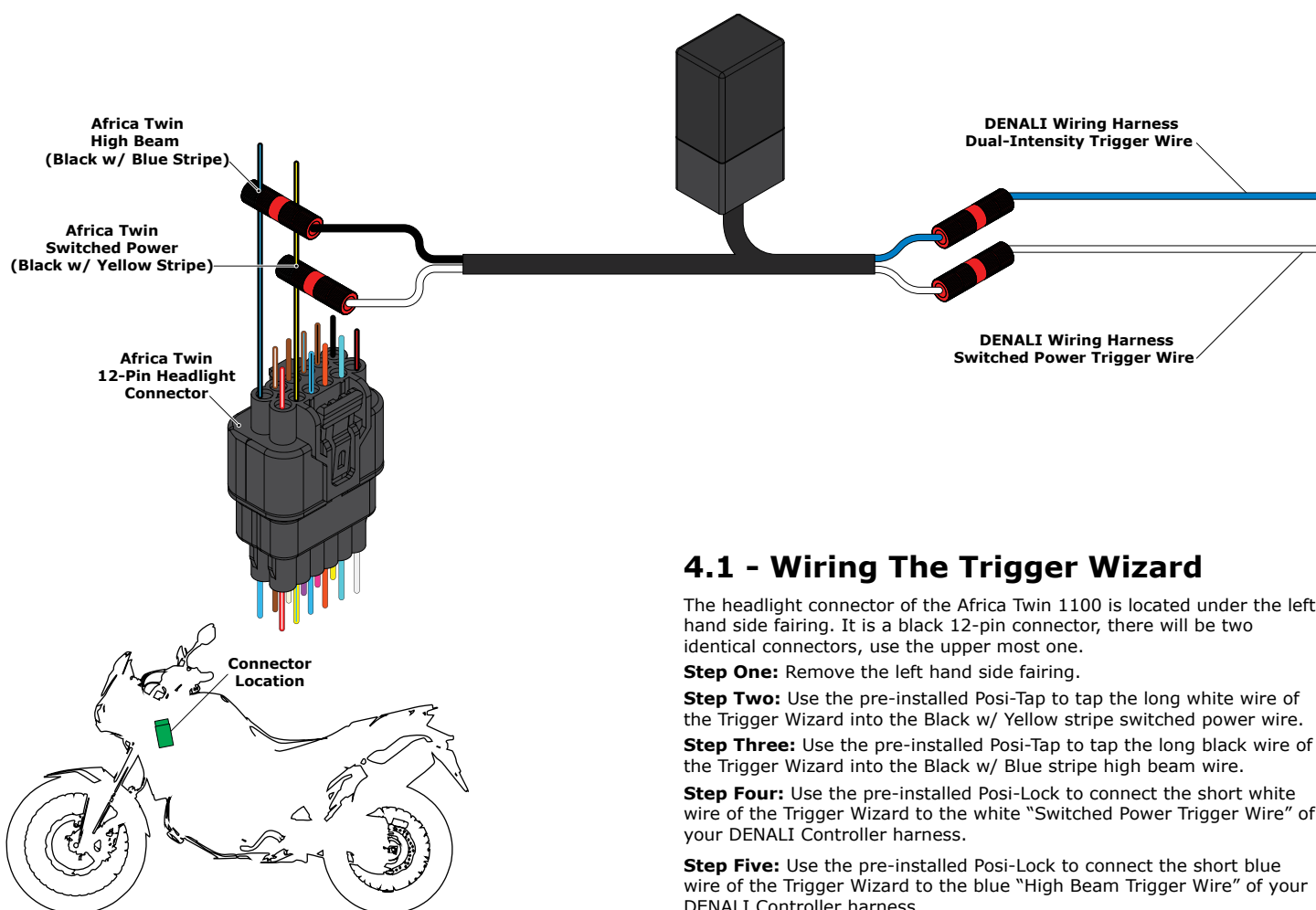
Step Two: Use the pre-installed Posi-Tap to tap the long white wire of the Trigger Wizard into the Brown w/ Yellow stripe switched power wire.

Step Three: Use the pre-installed Posi-Tap to tap the long black wire of the Trigger Wizard into the solid Yellow high beam wire. (*Do NOT tap the yellow w/ black stripe wire*)

Step Four: Use the pre-installed Posi-Lock to connect the short white wire of the Trigger Wizard to the white "Switched Power Trigger Wire" of your DENALI Controller harness.

Step Five: Use the pre-installed Posi-Lock to connect the short blue wire of the Trigger Wizard to the blue "High Beam Trigger Wire" of your DENALI Controller harness.

4. Example Install (Honda Africa Twin '20-'22)



4.1 - Wiring The Trigger Wizard

The headlight connector of the Africa Twin 1100 is located under the left hand side fairing. It is a black 12-pin connector, there will be two identical connectors, use the upper most one.

Step One: Remove the left hand side fairing.

Step Two: Use the pre-installed Posi-Tap to tap the long white wire of the Trigger Wizard into the Black w/ Yellow stripe switched power wire.

Step Three: Use the pre-installed Posi-Tap to tap the long black wire of the Trigger Wizard into the Black w/ Blue stripe high beam wire.

Step Four: Use the pre-installed Posi-Lock to connect the short white wire of the Trigger Wizard to the white "Switched Power Trigger Wire" of your DENALI Controller harness.

Step Five: Use the pre-installed Posi-Lock to connect the short blue wire of the Trigger Wizard to the blue "High Beam Trigger Wire" of your DENALI Controller harness.