Instruction Manual

DataDim™ Dual-Intensity Controller
DNL.WHS.11000

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 it is 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.

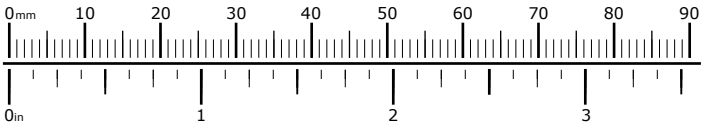
Installation Tips

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.

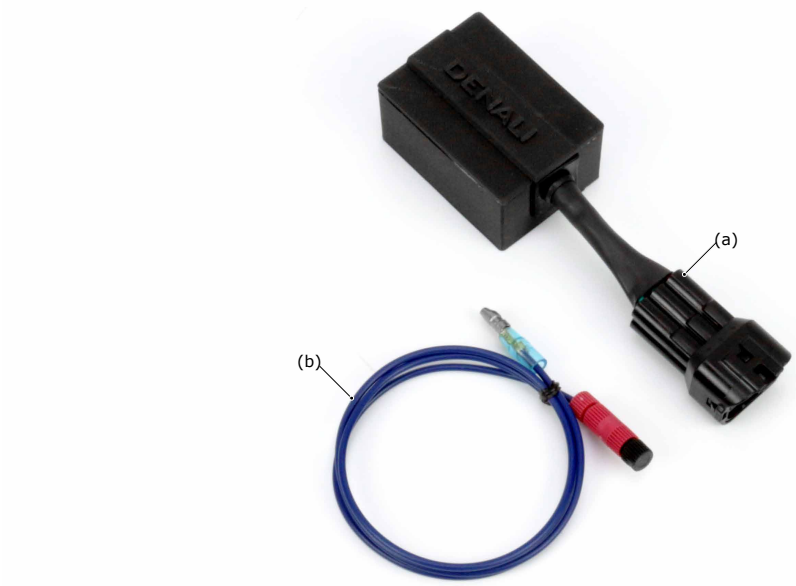
Bolt Size	in-lbs	ft-lbs	Nm
M3	10.0 in-lbs	-	1.0 Nm
M4	23.0 in-lbs	-	2.5 Nm
M5	44.5 in-lbs	3.5 ft-lbs	5.0 Nm
M6	78.0 in-lbs	6.5 ft-lbs	9.0 Nm
M8	-	13.5 ft-lbs	18.0 Nm
M10	-	30.0 ft-lbs	41.0 Nm
M12	-	52.0 ft-lbs	71.0 Nm

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.



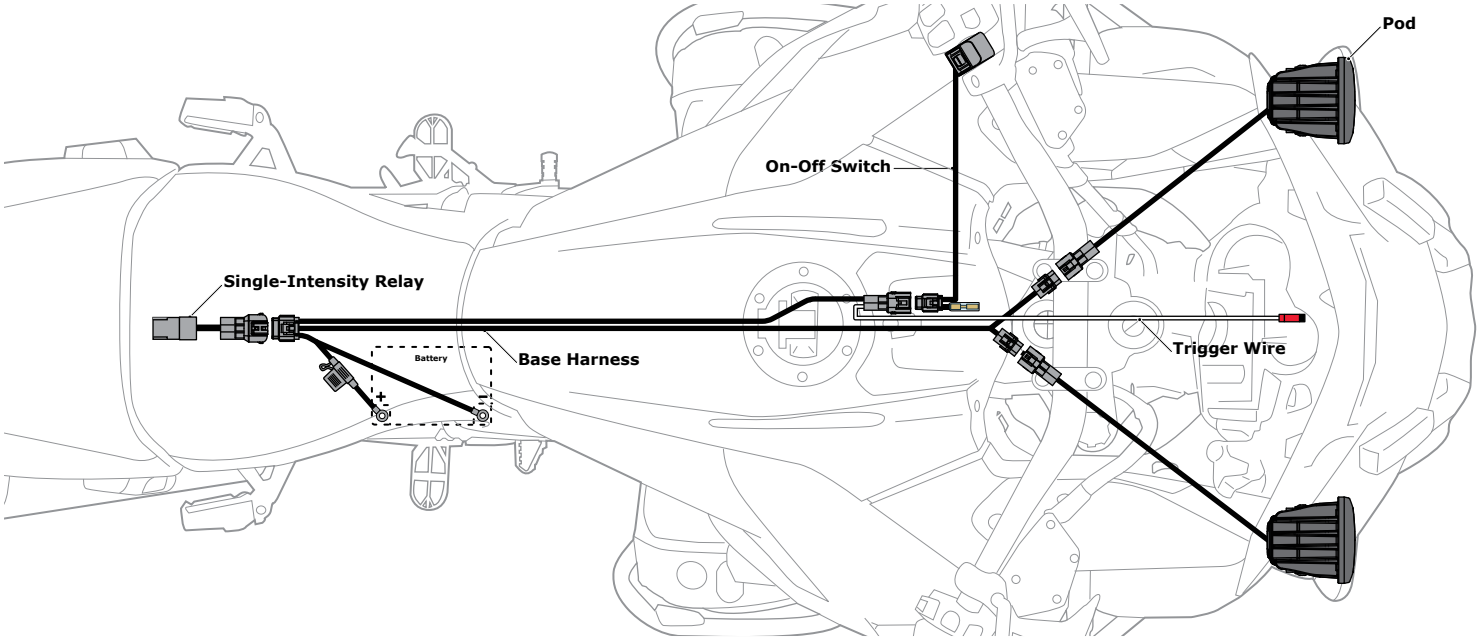
What's In The Box?



Kit Contents

(a) DataDim™ Dual-Intensity Controller.....Qty 1
(b) Dual-Intensity Trigger Wire.....Qty 1

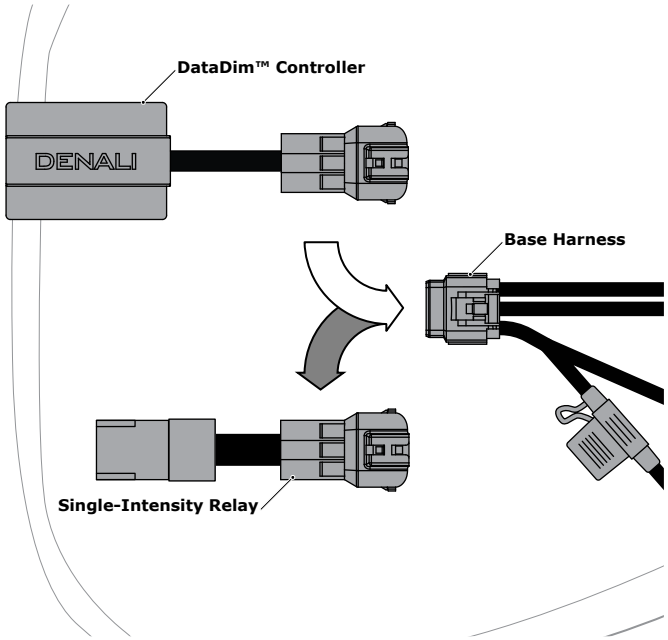
1. Wiring The Lights

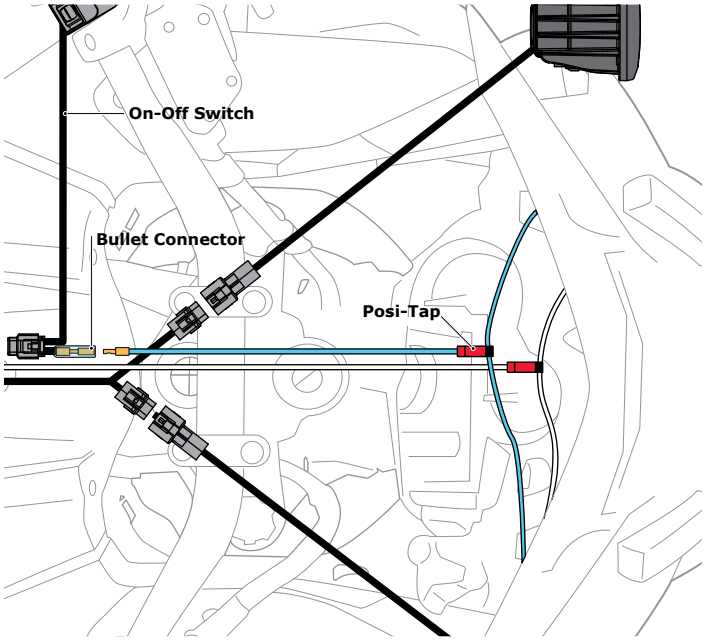


1.1 - Wiring Harness Overview

Our premium wiring harness that is included with the light kit features a clever HotSwap™ design that enables an effortless swap from the standard Single-Intensity relay to our Dual-Intensity DataDim™ Controller. Refer to *Section 2* for instructions on how to intall the controller.

2. DataDim™ Controller Upgrade





2.1 - DataDim™ Controller Overview

DENALI 2.0 Light pods are equipped with a dedicated 3rd-wire dimming circuit so we can use an external signal to reliably control the intensity of the LED chip at the source. Plug in our Dual-Intensity DataDim™ Controller to enable the DENALI lights to switch between half and full intensity with your vehicle's original high beam switch.

Step One: Unplug the Single-Intensity Relay from the Base Harness.

Step Two: Plug the Dual-Intensity DataDim™ Controller into the Base Harness.

2.2 - Tapping The High Beam

Step One: Plug the blue Dual-Intensity Trigger wire into the bullet connector at the base of the On-Off Switch.

Step Two: Use a test light while toggling the vehicles high beam switch to identify the wire which receives power upon high beam activation.

Step Three: Once the high beam trigger has been identified, use the included Posi-Tap to tap into the wire.

Note: Some vehicles are equipped with LED headlights or other lighting systems that do not provide a clean 12v high beam trigger signal. See *Figure 2.1* for an overview of our independent dimming switch.