



## DRL Wiring Harness w/ High-Low-Off Switch DNL.WHS.12100

### 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.

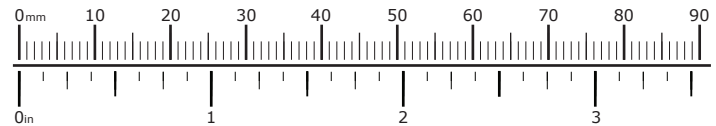
### Installation Tips

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.



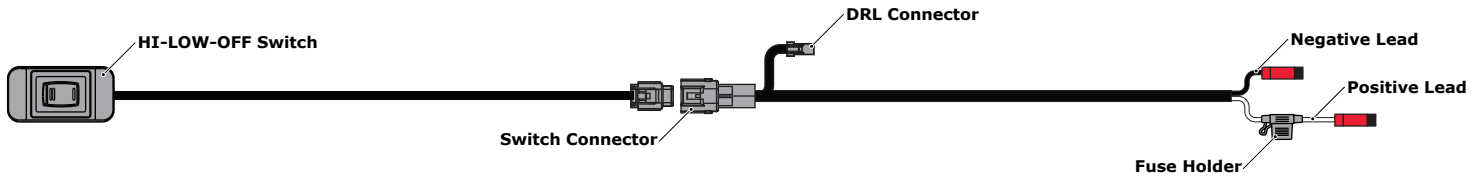
## What's In The Box?



### Kit Contents

- (a) Base Wiring Harness.....Qty 1
- (b) Hi-Low-Off Switch.....Qty 1
- (c) Posi-Tap.....Qty 2

**Tools Required:** Test Light

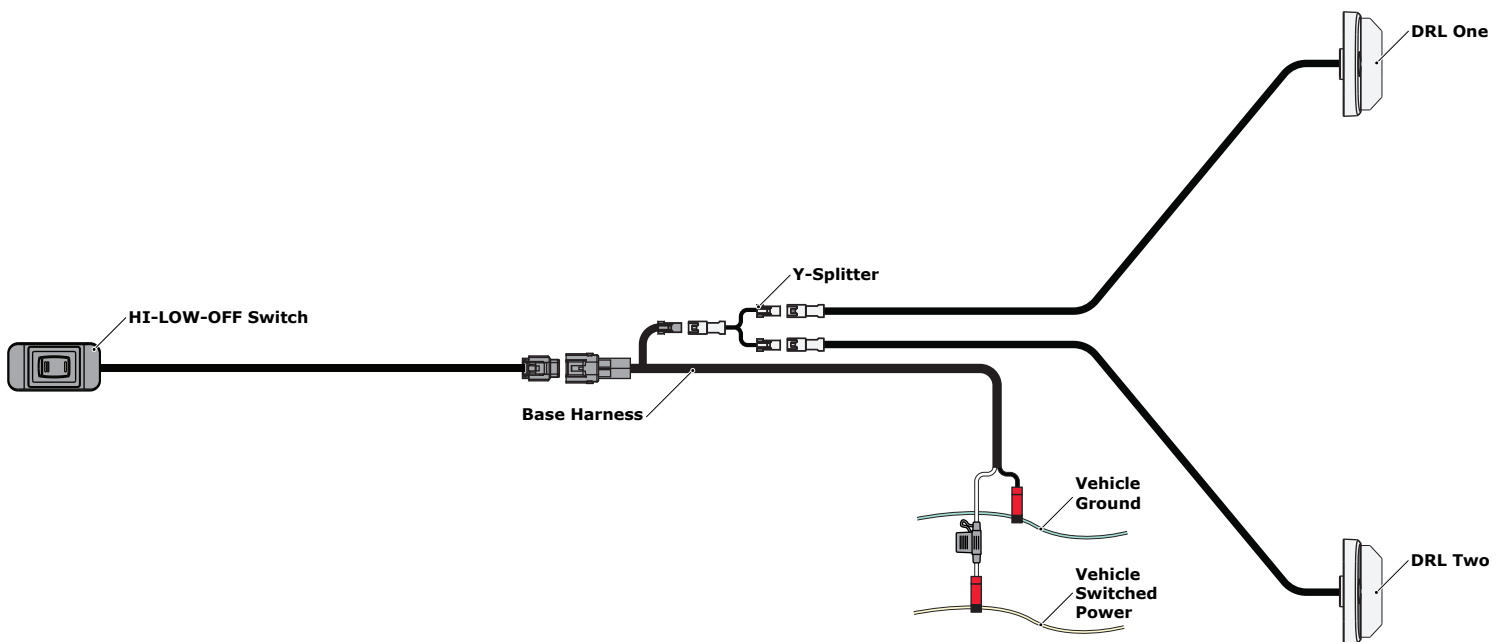


## 1.1 - Overview Of Wiring Harness

The DENALI DRL wiring harness enables independent dimming of the DRL Lights, separate from the vehicle's OEM lighting system. This eradicates the issues presented by vehicles that do not provide a clean 12v high beam trigger signal. This switch is also a great option for those who want full independent control of their day time running lights.

**Note:** The DENALI DRL harness with pods connected is 78 inches in length. DENALI DRL Harness Extensions are available for purchase if extra length is required (DNL.WHS.049).

## 2. Routing The Harness

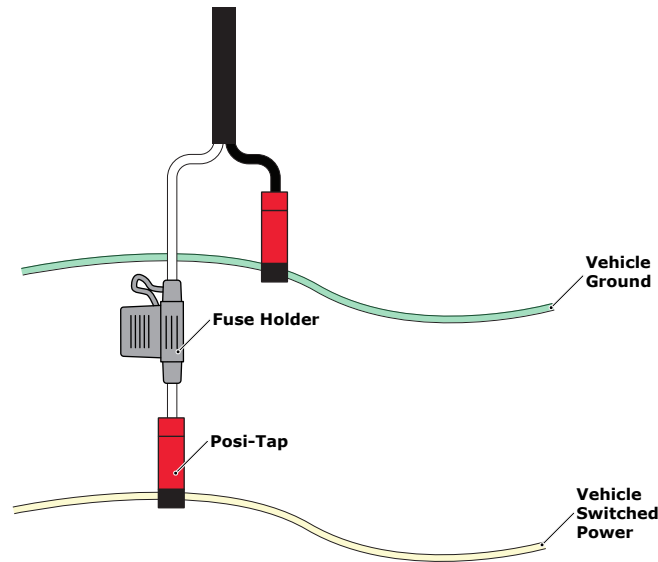


### 2.1 - Suggested Wire Routing

**Step One:** Begin routing the harness towards the mounted DRL pods. Secure the harness to the vehicle's frame along the way with zip ties. Be sure to avoid any moving components such as fan blades or suspension. Plug the light pods into the base harness using the y-splitter that was included with the DRL light kit.

**Step Two:** Plug the switch into the base harness. Route the switch wire to the location where the switch will be mounted and secure it to the vehicle using zip ties. See *Section 4* for switch installation.

# 3. Connecting The Harness



## 3.1 - Identifying Switched Power

Two examples of possible switched power sources are the low beam and tail light, however there are many other possible sources in most vehicles. The simplest way to identify switched power is to use a test light to probe connectors/wires while cycling the ignition. 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".

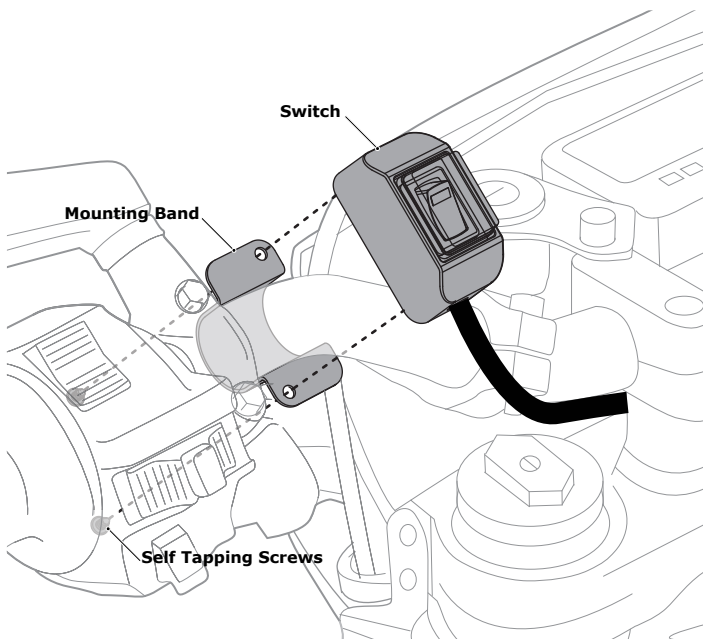
**Step One:** Identify a Switched Power wire as well as a Ground Wire. Use a voltmeter or multimeter to assist in identifying the correct wires.

## 3.2 - Tapping Switched Power

**Step One:** Once a proper switched power source has been identified use the included Posi-Tap to tap the white wire into the identified switched power source.

**Step Two:** Use the included Posi-Tap to tap the black wire into the ground source.

# 4. Installing The Switch

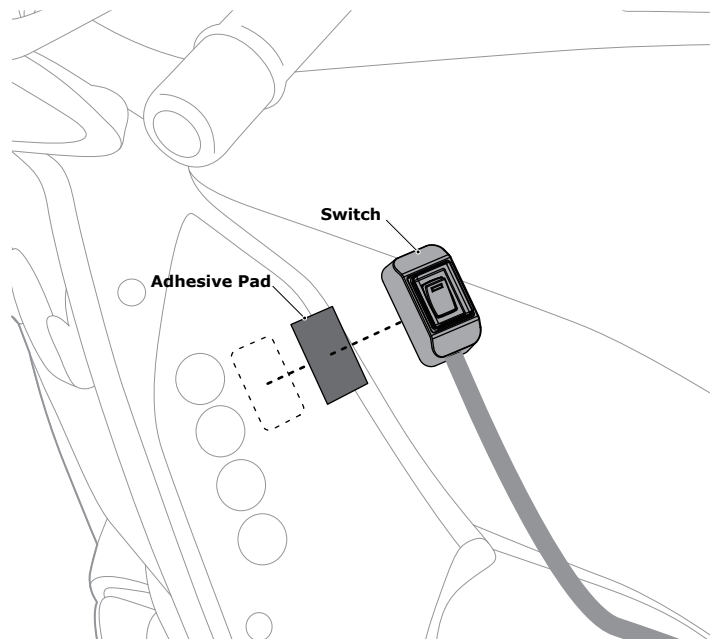


## 4.1 - Handlebar Mounting

All DENALI Light Kits include both 7/8" and 1" handlebar mounting bands, as well as an adhesive mounting pad.

**Step One:** Determine the bar diameter and select the correct size mounting band, then place the band around the handlebar.

**Step Two:** Use the two self tapping screws and a #1 Phillips head screw driver to attach the switch to the mounting band. Continue tightening the screws until the switch no longer rotates on the handlebar.



## 4.2 - Surface Mounting

**Step One:** Clean and prep the mounting surface and the bottom of the switch using an alcohol swab. Allow surfaces to fully dry.

**Step Two:** Peel away one side of the backing from the adhesive pad and adhere the pad to the bottom side of the switch.

**Note:** To ensure a stronger bond use a heat gun to warm the tape before applying to the surface.

**Step Three:** Peel away the remaining backing from the adhesive pad and adhere the switch to the mounting surface using moderate pressure.