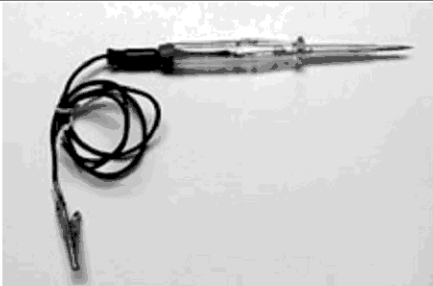
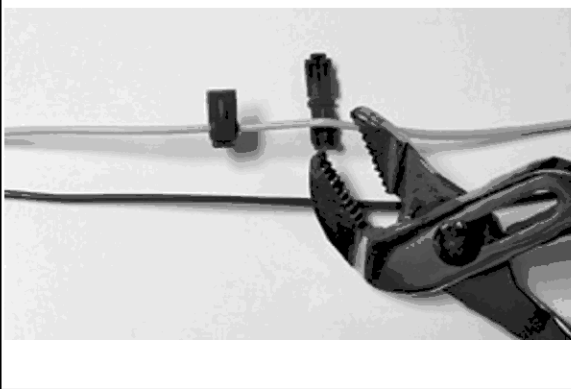
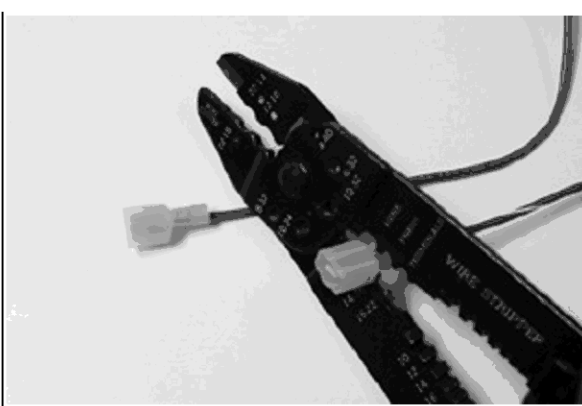
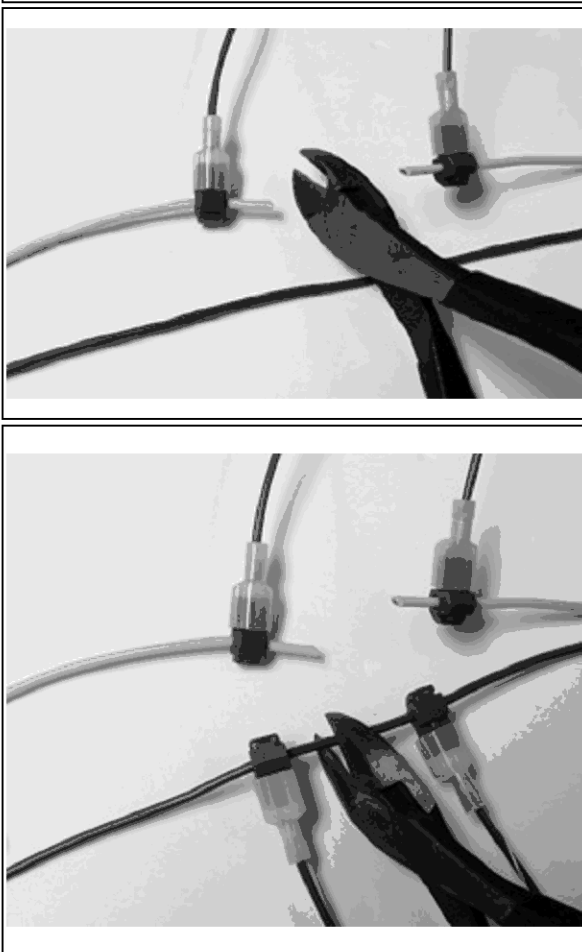
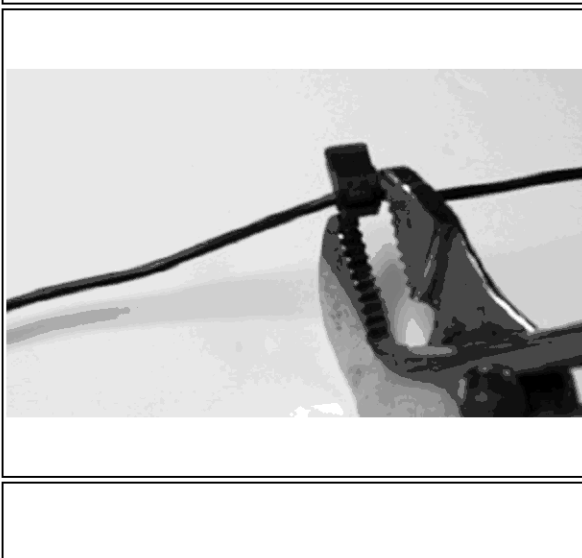
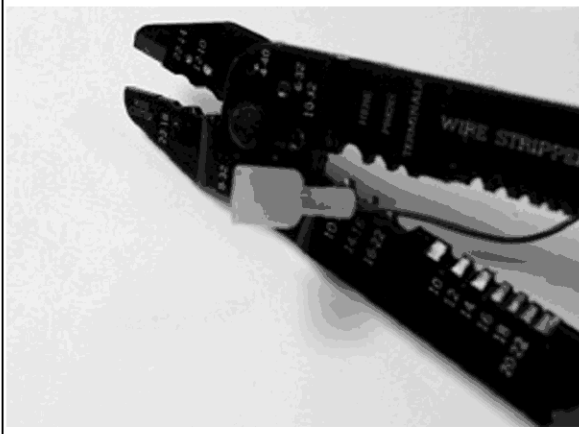
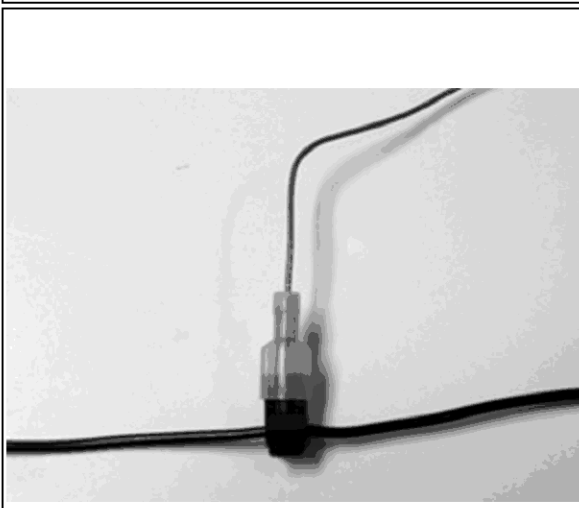
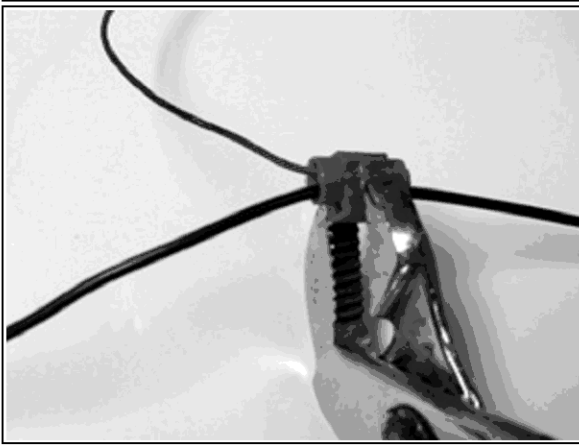



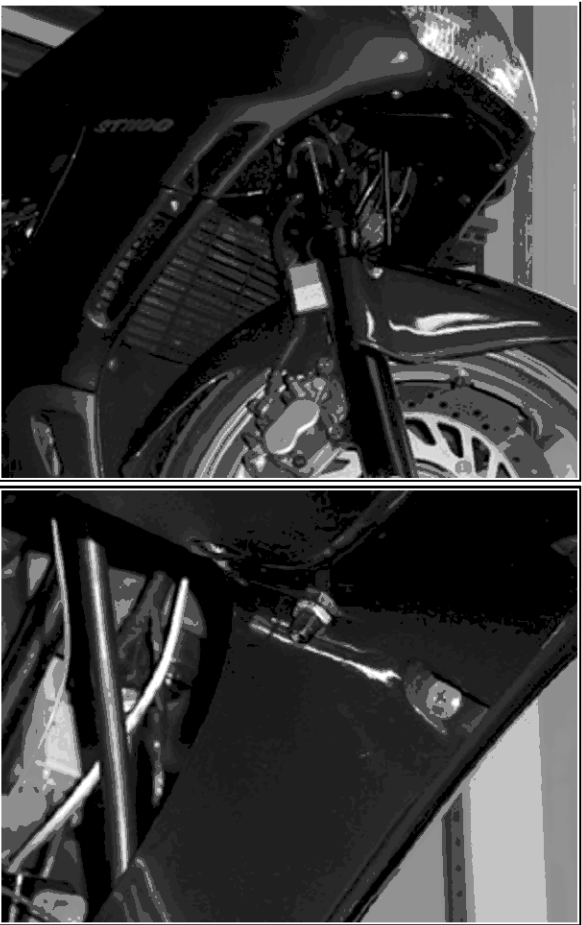

Diamond Star Headlight Modulator

Installation Instructions

Step 1	Before beginning make sure your headlight is working properly on "high" and "low" beam.	
Step 2	Mount the enclosed adhesive pad to the backside of the Diamond Star modulator unit. Then find a convenient location near the motorcycle headlight to secure the modulator to the motorcycle. Make sure the location selected is suitable for mounting the unit with the double-sided adhesive pad, and when mounted will not interfere with steering or other controls. Assure the mounting surface area is clean and free of grease or oil prior to attaching adhesive pad (adhesive pad will gain 50% of its strength within 30 minutes of placement and will be fully cured in 24 hours.).	
Step 3	Using a <u>test light</u> , locate and note the color of the headlight's high and low beam "hot" (+) wires.	
Step 4	<p>As a precautionary measure, disconnect the battery's Hot positive (+) lead, to eliminate any possibility of accidentally shorting out any hot wires or terminals during installation.</p> <p>Note: Before beginning the wire installation you should consider the following. We have provided crimp wire connectors. The use of these connectors is optional. The other accepted method to splicing wires is to solder them. In either case we have provided ample lengths of wire to connect this modulator to your headlight. One further note of caution, if any bare wires are exposed as a result of this installation, wrap the exposed wires with electrical tape to prevent any possibility of a short circuit.</p>	
Step 5	<p style="text-align: center;">HIGH BEAM INSTALLATION</p> <ul style="list-style-type: none"> • Install two of the "blue female T-Tap connectors" on the high beam "hot" wire near the headlight. • Remove about a 1/4" of insulation and crimp a "light blue male disconnect terminal" onto the "solid red wire" from the modulator unit and connect it to the T-Tap on the high beam supply wire, by pushing it into the female receptacle of the T-Tap. • Likewise, remove a 1/4" of 	

	<p>insulation and crimp a "light blue male disconnect terminal" onto the <i>"red & white striped wire"</i> from the modulator unit and connect it to the T-Tap connected on the wire going to the headlight. After installing the T-Taps cut the wire between them</p>	
Step 6	<p>LOW BEAM INSTALLATION</p> <ul style="list-style-type: none"> • Install two of the "blue female T-Tap connectors" on the low beam "hot" wire near the headlight. • Remove about a 1/4" of insulation and crimp a "light blue male disconnect terminal" onto the <i>"solid blue wire"</i> from the modulator unit and connect it to the T-Tap on the low beam supply wire, by pushing it into the female receptacle of the T-Tap. • Likewise, remove about a 1/4" of insulation and crimp a "blue male disconnect terminal" on to the <i>"blue & white wire"</i> from the modulator unit and connect it to the T-Tap connected to the wire leading to the headlight. After installing the T-Taps cut the wire between them. 	
	<p>HEADS-UP TRAFFIC ALERT FEATURE INSTALLATION</p> <p>This feature allows your headlight to momentarily modulate for 2.5 seconds whenever the horn button is pressed, providing both visual and audible conspicuity for your motorcycle. To utilize this option, locate the wires leading to your horn.</p> <ul style="list-style-type: none"> • Reconnect the positive (+) lead to your battery and locate your horn 	

<p>Step 7</p>	<p>wire using a <u>test lamp</u>. Install the "maroon T-Tap connector" onto the horn wire.</p> <ul style="list-style-type: none"> • If your horn wire is not hot until the horn is used (see note), then remove about a 1/4" of insulation from the "<i>green wire</i>" of the modulator, and crimp the "pink male disconnect terminal" to it • If your horn wire is hot all the time (see note), then remove about a 1/4" of insulation from the "<i>purple wire</i>" of the modulator, and crimp the "pink male disconnect terminal" to it. • Secure the male and female terminal together, by inserting the male connector into the female T-Tap connector. <p>*Note: Typically BMW, Ducati, Harley-Davidson, & Honda, use the green wire, Kawasaki, Yamaha, & Suzuki use the purple wire.</p>	 
<p>Step 8</p>	<p>GROUND WIRE INSTALLATION</p> <p>It is <i>very important</i> that the modulator unit is properly grounded. Without the unit being properly grounded some of the internal safe guards could be disabled. A suitable ground, is the ground wire going to the headlight. Use the "dark blue, quick splice connector" and connect the "black" wire from the module to the ground wire of the headlight.</p>	
	<p>Photo-optic Sensor INSTALLATION</p> <p>When mounting the photo-optic sensor, consideration should be given to the fact that this sensor needs to sample ambient daylight conditions. If the sensor is placed in a light confining location the sensor will be less sensitive to actual light conditions.</p>	

<p>Step 9</p>	<ul style="list-style-type: none"> • For those motorcycles equipped with a separate headlight bulb housing, an ideal location for the sensor is to drill a 5/16" hole in the base of the headlight housing, and mount the sensor from the inside out, with the sensor eye pointing outward. • For those motorcycles with a fairing mounted headlight, locate a spot just under the headlight and secure the sensor. <p>These two mounting locations are only suggestions; you can mount the sensor in any location that meets your requirements. No matter what your preference for mounting, the sensor should be mounted with the optic lens pointed downward, and at least 18 inches above the road surface.</p>	
<p>Step 10</p>	<p>REMOTE SWITCH INSTALLATION (Remote Switch Unit 1012B)</p> <p>Selecting a mounting location of the remote switch is totally subjective to each owner's preference; Therefore specific installation instruction shall not be given. The toggle switch should be mounted with the "Green wire" at the top and the "Red wire" at the bottom. When the "toggle switch" is mounted in place, the "OFF" position should be at the Top toggle position. A "switch position" decal has been provided for placement along side of the switch. This decal identifies switch position and functions.</p>	
<p>STEP 11</p>	<p>SECURE WIRE BUNDLE - for a neater appearance, secure the loose wires from the modulator unit with the provided tie wraps. Check and make sure all wires are secure and <i>do not interfere with steering or controls.</i></p>	

Functionality Chart

If the Module's command switch is set to...	And the light condition is ...		And the bikes switch position is...		Your headlight will...	If you press your horn button (Heads-Up Alert™) your headlight will...
	Day	Night	High Beam	Low Beam		
OFF	X	X	X	X	Remain Steady On (No Modulation)	Modulate Deep (4cps) for 2.5 seconds
Max Auto	X		X		Modulate Deep (4cps)	Modulate Quick (8cps) for 2.5 seconds
		X	X		Remain Steady On (No Modulation)	Modulate Deep (4cps) for 2.5 seconds
	X			X	Remain Steady On (No Modulation)	Modulate Deep (4cps) for 2.5 seconds
		X		X	Remain Steady On (No Modulation)	Modulate Deep (4cps) for 2.5 seconds
Nova Auto	X		X	X	Modulate Quick (8 cps)	Modulate Deep (4cps) for 2.5 seconds
		X	X	X	Remain Steady On (No Modulation)	Modulate Deep (4cps) for 2.5 seconds