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Thank you for purchasing this instrument from Intellitronix. We value our customers!

## **INSTALLATION GUIDE**

**RPM Switch with Push Buttons and Digital Readout**

**Part Number: N3209**

**Caution: Do NOT allow any of the switch wires other than the RED (power source) wire to touch any 12V source, as this will cause the hardware to malfunction, destroying the functionality of the switch.**

**\* Always disconnect the battery before attempting any electrical work on your vehicle.\***

### **WIRING INSTRUCTIONS**

*Note: Automotive circuit connectors are the preferred method of connecting wires. However, you may solder if you prefer.*

The addition of this kit will allow you to control an external device when the selected RPM is reached.

*Note: If doing a LS engine swap or any computer controlled Engine you will need pick up the tach signal wire from the ECM/ECU and then set the tach switch to 4-cylinders. You may also need to order the Intellitronix LS Engine Swap Adapter Kit for Series 1, 2 and 3 engines. The part number is 8014LS. If you are getting the tach signal from the ECU, the resistor in the adapter kit will help pull a stronger signal for the tachometer. If your engine is a 4 cylinder, please call Tech Support at Intellitronix, as you may need to send the gauge back to us to be reconfigured. There is no charge for this additional service.*

### **MOUNTING INSTRUCTIONS**

**Power - Red** - Connect to a switched +12V source.

**Ground - Black** - Connect to an engine block ground.

**Tach Input - Grey** - Connect to the negative terminal of your coil, or, if using a high energy CD ignition, connect to the tach output of the ignition system instead.

**Tach Output - Blue** Connect to the negative/ground side of the device that you want to activate at the desired RPM.

Note: If the device to which the blue wire is attached draws more than 3 amps, a relay must be used to drive that device or damage to the unit will occur.

If your vehicle has a **separate ignition coil**, connect the gray wire to the **negative (-)** side of the coil – the wire that goes to the points or electronic ignition module.

If your vehicle has a **GM HEI ignition**, connect to the terminal marked 'TACH', or, on some systems, a single white wire with a spade terminal.

If your vehicle has an **after-market ignition** – some systems will connect to the TACH output terminal.

If your vehicle has a **computer controlled ignition** system, consult the service manual for the wire color and location.

If your vehicle has a **magneto** system, connect the tach signal wire to the negative side of the coil. **Do not** connect the tach terminal to the positive (+ or high voltage) side of the ignition coil.

## **OPERATION**

This device has two settings for *Normally Open* (the *Blue* wire will provide power AFTER the switch reaches the set RPM), and for *Normally Closed* (the *Blue* wire will provide power UNTIL the switch reaches the set RPM).

This unit comes with a factory setting for an 8-cylinder engine and activation at 5000 RPM - *Normally Open*. The display will stay in Settings Mode until it receives a signal from the ignition system. To program the unit after starting the engine, shut the engine off and turn on only the ignition.

When in Settings Mode, use push buttons on the device face to change the RPM switch setting in increments of 100 RPM at a time, up to 9900 RPM. The left button increases, while the right button decreases. Once you are at the desired setting, the LED display will stay on the RPM setting for a few seconds, then switch to NO and NC settings. Use the left button to choose. Finally, wait a few seconds and the device will move on to the final selection, number of cylinders. The device is programmed for use with 4, 6, and 8-cylinder engines. Use the left button to make your selection. When you are satisfied with your settings, start the engine and your device will begin to operate automatically. A blue LED will indicate when the switch is activated.



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Technical Support

Monday – Friday

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CHECK OUT THE **SUPPORT** PAGE AT

[www.intellitronix.com](http://www.intellitronix.com)

FOR QUICK ANSWERS (**Q&A**) TO YOUR QUESTIONS



**This product carries a limited Lifetime Warranty.**

**This warranty is limited to replacement or repair of the unit at the discretion of Intellitronix.**

## **RETURN POLICY PROCEDURES**

### **Return Policy Instructions**

1. Download the Intellitronix Return/Repair Form and fill in the information on the form about the product.
2. Place the product being returned in the original packaging that it came in and include a copy of the completed Intellitronix Return/Repair Form.
3. All packages must be accompanied with an RMA Number.

Please call Technical Support at +1 440-359-7200 to receive an RMA Number.

4. Mail the product being returned with the completed Return/Repair Form and a copy of the original sales invoice.

### **Request for Product Refund**

1. All returns for a refund must have a completed Intellitronix Return/Repair Form included in the package with the returned product.
2. If the return is for a product that is not defective a 20% restocking fee will be charged. The product must be in the same pristine condition that it was sent to you.
3. Proof of purchase is required. Please include a copy of the original sales order with the returned product.
4. All product must be returned undamaged and in working order in the original packaging including plexiglass, sending units, mounting hardware, or you will be subject to additional charges for product and accessories not returned.
5. All refunds will be reviewed by the Accounting Office.