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## **INSTALLATION GUIDE**

**RPM Activated Switch**

**Part Number: N3012**

**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.**

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

**\* 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.***

**\*\* NOTE: before beginning the installation of this kit please disconnect the positive battery cable from your vehicle and read all the instructions completely! \*\***

***Note: If doing an LS engine swap, pick up the tach signal wire from the ECM/ECU and then set the tach switch to 4-cylinders.***

## **MOUNTING INSTRUCTIONS**

**Power – Red** Connect to a switched +12 Volt supply 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 your desired RPM activated device.

**\*\*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 will occur to the unit.\*\***

**Warning: If using this switch with a multi-coil vehicle, you must attach the switch's GREY tachometer input wire to the tachometer output on the PCM and set it for 4 cylinders.**

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

- For this unit to function correctly, the dip switches must be set to the desired RPM. Two sets of switches are in this unit. One set is for the thousands RPM digit from 2000 to 9000. The other is the hundreds RPM digit from +100 to +900 (there is no switch for 000 hundreds). Though not recommended, if more than one switch is ON for each digit the unit is designed to assume the smallest RPM value. To turn a switch 'ON', simply push the switch to the OUTSIDE, away from the center of the circuit board.
- The unit can be used with different cylinder engines. The CYL1 and CYL2 switches can be used to set the Cylinder type.

CYL2	CYL1	
OFF	OFF	4 Cylinders
OFF	ON	6 Cylinders
ON	OFF	8 Cylinders
ON	ON	10 Cylinders

**\*\* Note: The default CYL1 = OFF and CYL2 = OFF is for 4 Cylinder.**

- For example, if you wish to activate a device at 3000 for an 8 CYL engine, set the thousands switch up to the ON position and set CYL2 = ON and CYL1 = OFF
- The device will be activated after reaching 3000 RPM.
- The Green LED inside the unit turns on when power is supplied to the unit.
- If the INV switch "Normally Open" is selected, the blue LED light and your device will turn on after reaching the selected RPM
- If the INV switch "Normally closed" is selected the blue LED light and your device turns on immediately and will turn off when the selected RPM is reached.

Cyl 1/Cyl 2    RPM 2000 to 9000



INV switch  
RPM +100 to +900

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Technical Support

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9am to 5 pm EST

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**This product carries a limited Lifetime Warranty.  
This warranty is limited to replacement or repair of the unit at the discretion of Intellitronix.**