

MSD **IGNITION** **INSTALLATION INSTRUCTIONS**

MSD Magneto RPM Activated Switch PN 8957

Parts Included:

1 - RPM Activated Switch
2 - Wire Splice Devices
1 - No. 6 Self Tapping Screw

2 - Insulated Faston Tabs
1 - 45° Faston Tab

WARNING: During installation, disconnect the battery cables. When disconnecting, always remove the Negative cable first and install it last.

This PN 8957 is not designed to be used with an MSD Ignition or standard style ignition (Factory or Aftermarket). This unit is designed to be used with a Magneto style Ignition with an external coil (Mallory or Vertex).

MOUNTING THE UNIT

The Magneto RPM Activated Switch may be mounted in any location where the RPM modules may be changed easily. Two methods of mounting the unit are available. The unit has double-sided tape on the bottom for press-on type mounting, or a self tapping screw is supplied for firmer mounting.

SETTING THE RPM SWITCH

The RPM switch is set by plug-in RPM modules ranging from 3,000 RPM to 13,000 RPM in 200 RPM increments.

PN 8743 - 3,000 through 3,800 RPM
PN 8744 - 4,000 through 4,800 RPM
PN 8745 - 5,000 through 5,800 RPM
PN 8746 - 6,000 through 6,800 RPM
PN 8747 - 7,000 through 7,800 RPM
PN 8748 - 8,000 through 8,800 RPM

PN 8749 - 9,000 through 9,800 RPM
PN 8750 - 10,000 through 10,800 RPM
PN 8751 - 11,000 through 11,800 RPM
PN 8752 - 12,000 through 12,800 RPM

Note: Be sure to use WHITE RPM Modules.

The RPM Activated Switch may also be set by using an MSD RPM Selector Switch. Below is a part number list and the RPM values available for each MSD RPM Module Selector Switch:

PN 8670 - 3,000 through 5,200 RPM
PN 8672 - 6,000 through 8,200 RPM
PN 8674 - 9,000 through 11,200 RPM
PN 8671 - 4,600 through 6,800 RPM
PN 8673 - 7,600 through 9,800 RPM
PN 8675 - 10,600 through 12,800 RPM

ELECTRICAL CONNECTIONS

The RPM Activated Switch is an RPM operated device that has two internal switches which make contact to ground or open the circuit from ground when the selected RPM is reached. Figure 1 shows the basic schematic representation of how the circuit works.

WIRING	
Red	Connects to Switched +12 volts.
Black	Connects to Ground.
White	Connects to Magneto coil (+).
Function Wires	
Yellow	Normally open switch to Ground - 1.5 amp maximum.
Gray	Normally closed switch to Ground - 1.0 amp maximum.

The RPM circuit is connected to switched +12V and grounded. Pulses coming in on the White wire are counted by the RPM circuit. When the RPM set by the plug-in RPM module is reached, the RPM circuit causes switch 1 to close, connecting the Yellow wire to Ground and at the same time, switch 2 opens, disconnecting the Gray wire from Ground.

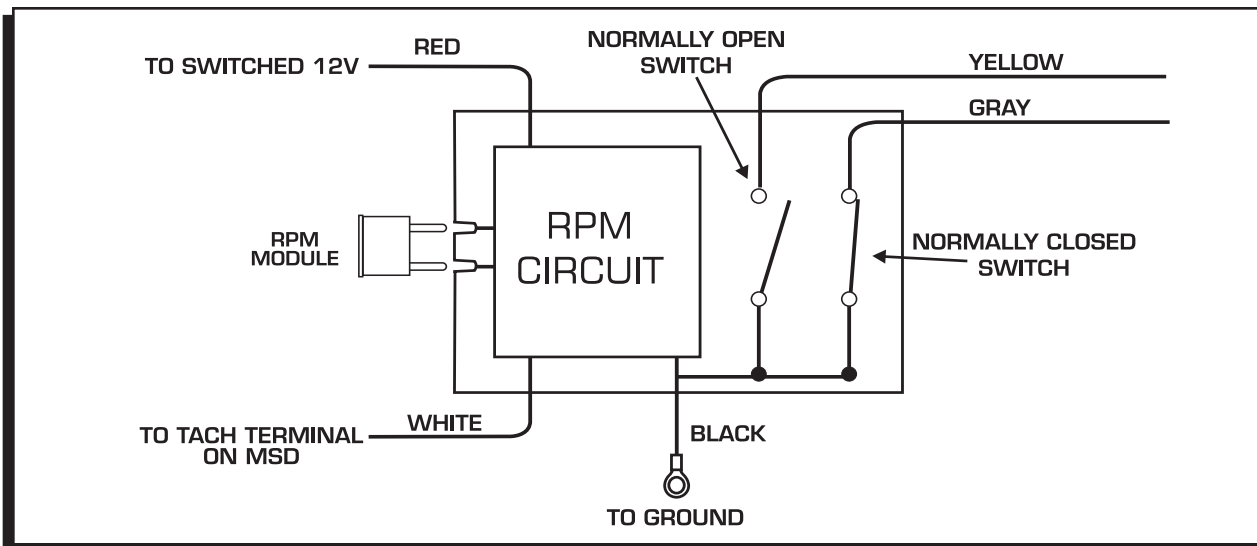


Figure 1 Operation of the RPM Activated Switch.

Examples of how to use the Magneto RPM Activated Switch are shown below.

USING THE RPM SWITCH TO TURN ON A SHIFT LIGHT

Example 1 shows the unit connected to a light. The light will turn On when the selected RPM has been reached. The light will stay On until the RPM falls below the selected RPM.

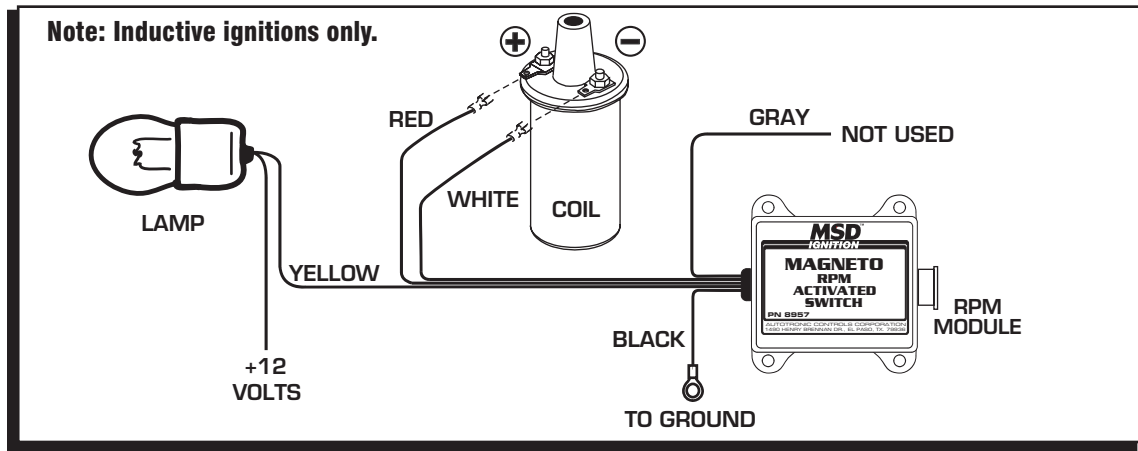


Figure 2 Wiring to an Inductive Ignition System.

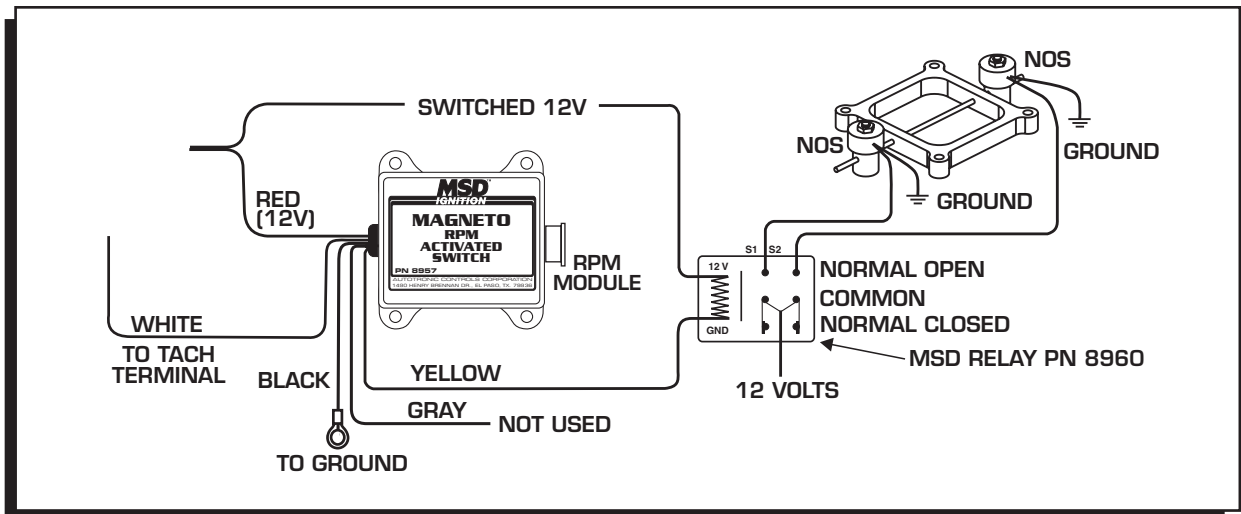


Figure 3 Wiring with an MSD Relay.

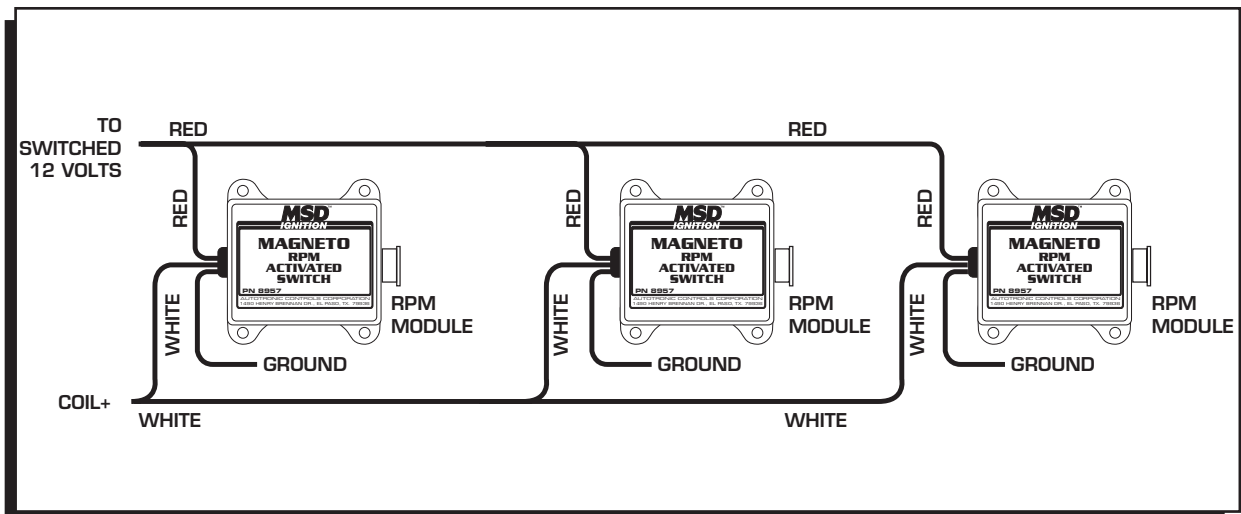


Figure 4 Wiring more than one MSD RPM Activated Switch.

