

MSD[™] IGNITION INSTALLATION INSTRUCTIONS

MSD Pro Mag Timing Control PN 8168

Note: Read the Instructions before attempting installation.

Parts Supplied:

1 - Timing Control, PN 8168

4 - Vibration Mounts

10 - Retard Modules: 1°, 2°, 3°, 4°, 5°, 6°, 7°, 8°, 9°, 10°

2 - Shielded Input Harnesses

2 - Switch Wiring Harnesses

The Pro Mag Timing Control will provide a timing retard that can be activated through a variety of switches. The Control is actually two Controls in one. It can be used with a single Pro Mag or a dual mag system. A 12 volt source is required.

Each side of the Control has a module receptacle along with a tach output terminal (Figure 1). The tach output signal is a 12 volt square wave, 20% duty cycle. On the end opposite the wire reliefs are three LEDs.

- The Red LED will illuminate when the Control is on.
- The Green LED's illuminate when the corresponding retard is activated.

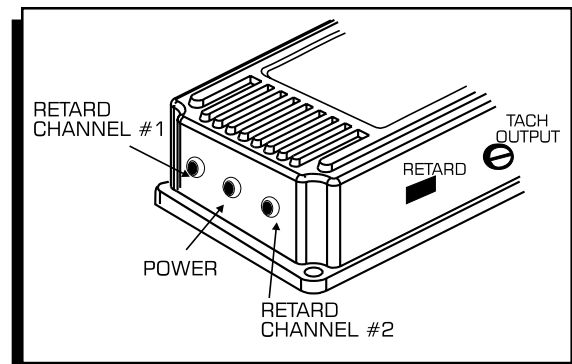


Figure 1 The Pro Mag Retard Control LEDs.

MOUNTING

The Timing Computer may be mounted in any position, except upside-down. Make sure the wires reach all of their connections before mounting the unit. Use the Control as a template and mark the mounting holes. Use an 3/16" bit to drill the holes and mount the Control with the supplied vibration mounts and hardware.

WIRING

If your engine benefits from retarding the timing at high rpm, the Pro Mag Timing Computer offers several wiring installations. The Black and Gray wires are responsible for activating the retard however no retard will occur unless there is a module installed.

The most basic connection is with a simple On/Off switch. When the Black and Gray wires are jumped together to create a circuit, the retard is NOT activated. When Open, the retard is activated.

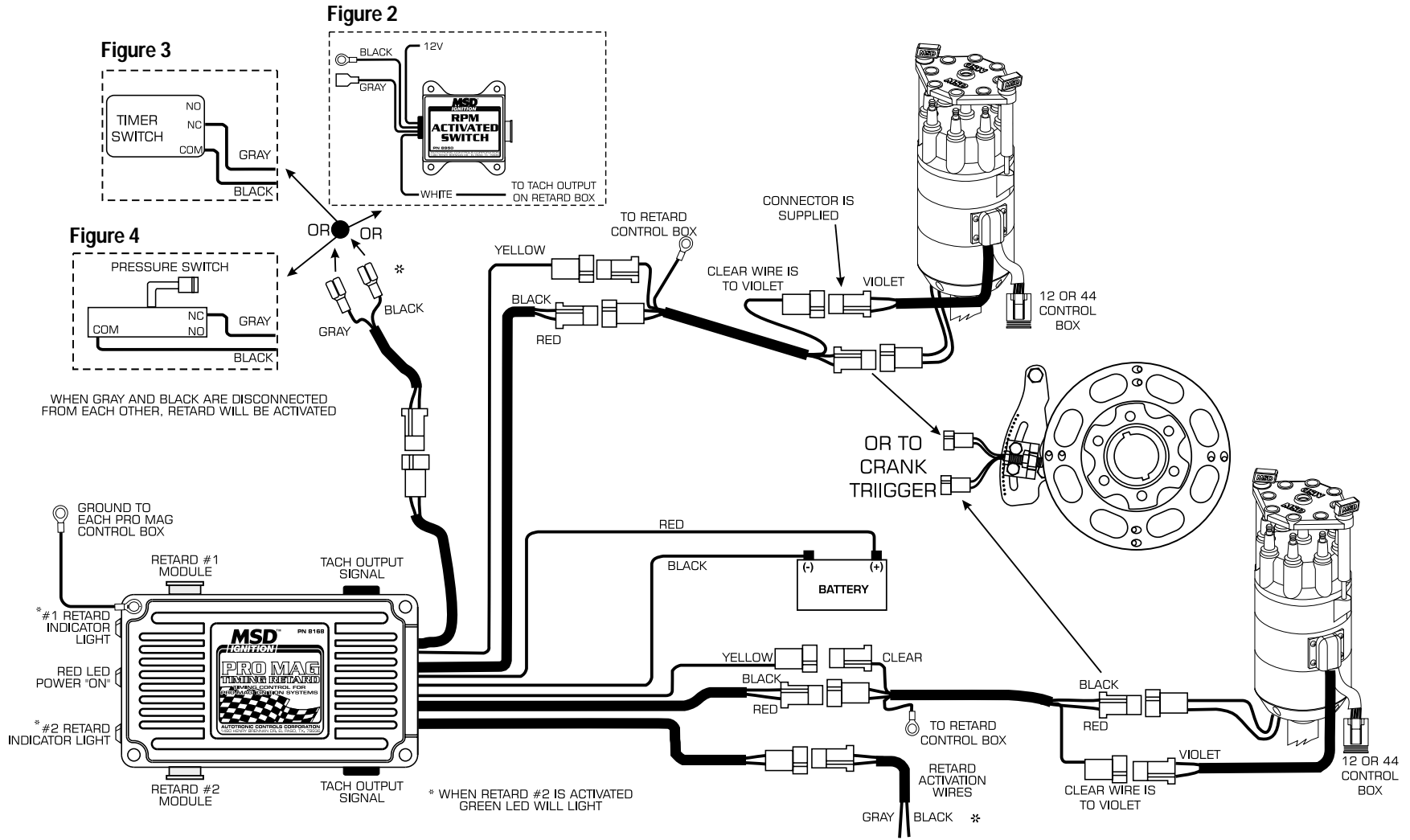
With a Dual Mag system, splice the Gray and Black Wires from both sides of the Control together to the same circuit to activate the retard.

Note: The Timing Control will only retard up to 10° maximum.

The following two diagrams show the installation of the Timing Control to a Pro Mag system.

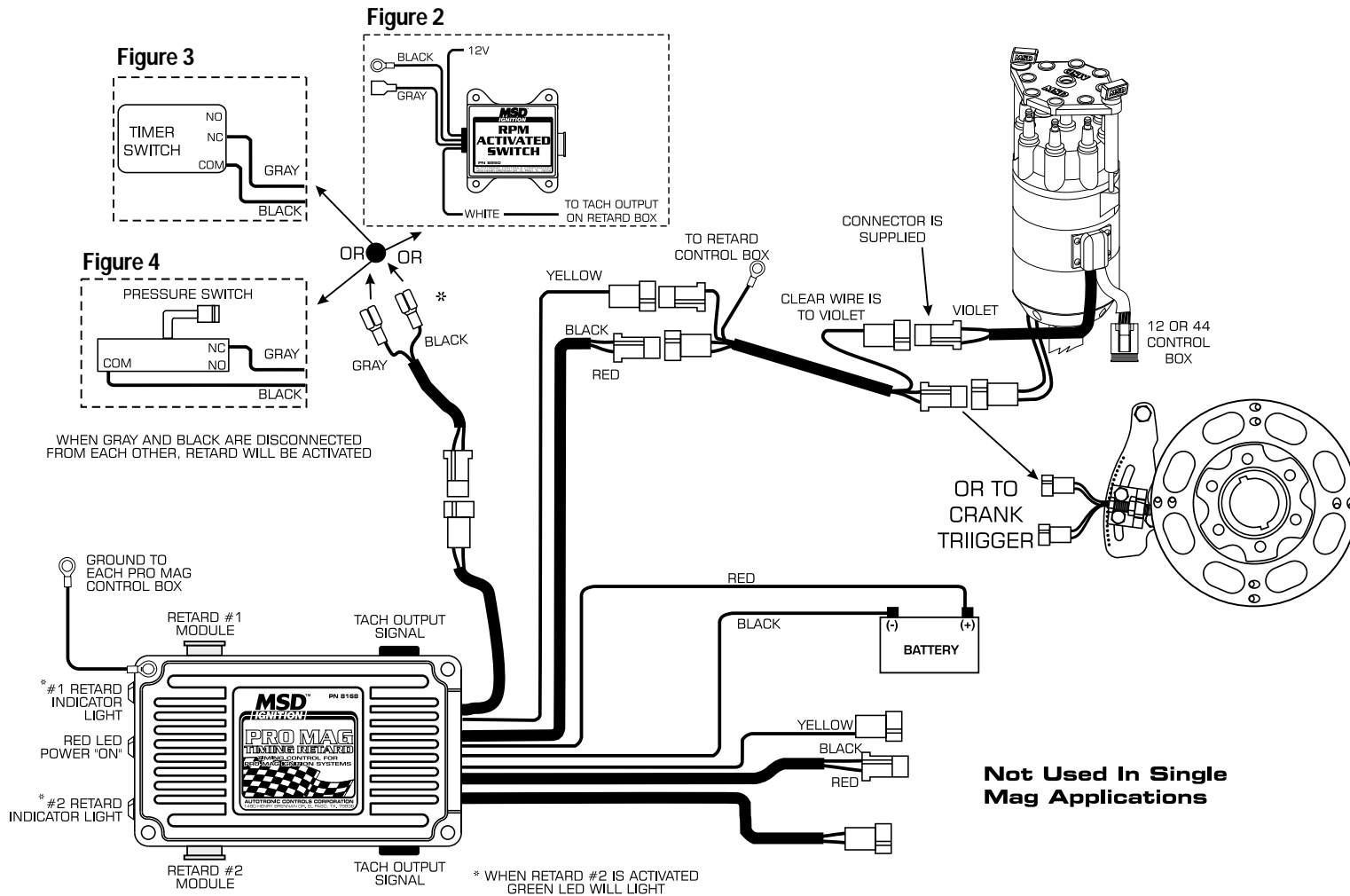
DUAL PRO MAG SYSTEM

| WIRING | |
|-------------|--|
| Red..... | Connects to 12volt battery positive |
| Black..... | Connects to battery ground |
| Yellow..... | Connects to Violet Connector of the Pro Mag Magnetic Pickup |
| Violet..... | Magnetic pickup, positive |
| Green..... | Magnetic pickup, negative |
| Black..... | Connects to one side of a switch to activate the High Speed Retard |
| Gray..... | Connects to one side of a switch to activate the High Speed Retard |
| Black..... | This is the wire coming out of the shielded cable. It connects to ground at the mounting point of the Control. |



SINGLE PRO MAG SYSTEM

| WIRING | |
|-------------|--|
| Red..... | Connects to 12volt battery positive |
| Black..... | Connects to battery ground |
| Yellow..... | Connects to Violet Connector of the Pro Mag Magnetic Pickup |
| Violet..... | Magnetic pickup, positive |
| Green..... | Magnetic pickup, negative |
| Black..... | Connects to one side of a switch to activate the High Speed Retard |
| Gray..... | Connects to one side of a switch to activate the High Speed Retard |
| Black..... | This is the wire coming out of the shielded cable. It connects to ground at the mounting point of the Control. |



**Not Used In Single
Mag Applications**

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USING AN MSD RPM ACTIVATED SWITCH

You can use an MSD RPM Activated Switch, PN 8950, to activate the retard at a desired rpm. Connect the Control's Gray wire to the Gray wire of the Switch and the Black wires together (Figure 2). At the desired rpm the Switch will open the circuit between the Black and Gray wires to activate the retard.

USING A TIMER

To activate the retard with a timer, connect the Gray wire to the timer's Normally Closed activation wire and the MSD Black wire to the timer's ground wire (Figure 3).

USING A PRESSURE SWITCH

To activate the retard with a pressure switch, connect the Gray wire to the NC terminal of the switch and the Black wire to the common or ground terminal (Figure 4).

Service

In case of malfunction, this MSD component will be repaired free of charge according to the terms of the warranty. When returning MSD components for service, Proof of Purchase must be supplied for warranty verification. After the warranty period has expired, repair service is charged based on a minimum and maximum charge.

Send the unit prepaid with proof of purchase to the attention of: **Customer Service Department, Autotronic Controls Corporation, 12120 Esther Lama, Suite 114, El Paso, Texas 79936.**

When returning the unit for repair, leave all wires at the length in which you have them installed. Be sure to include a detailed account of any problems experienced, and what components and accessories are installed on the vehicle.

The repaired unit will be returned as soon as possible after receipt, COD for any charges. (Ground shipping is covered by warranty). All units are returned regular UPS unless otherwise noted. For more information, call the MSD Customer Service Line (915) 855-7123. MSD technicians are available from 8:00 a.m. to 5:00 p.m. Monday - Friday (Mountain Time).

Limited Warranty

Autotronic Controls Corporation warrants MSD Ignition products to be free from defects in material and workmanship under normal use and if properly installed for a period of one year from date of purchase. If found to be defective as mentioned above, it will be replaced or repaired if returned prepaid along with proof of date of purchase. This shall constitute the sole remedy of the purchaser and the sole liability of Autotronic Controls Corporation. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representations whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall Autotronic Controls Corporation be liable for special or consequential damages.