

MSD IGNITION INSTALLATION INSTRUCTIONS

MSD Fuel Pump Booster PN 2350

WARNING: The Fuel Pump Booster cannot be used on Pulse Modulated fuel systems without a return line.

Parts Included:

- | | |
|-----------------------------|------------------------------------|
| 1 - Fuel Pump Boost Control | 2 - Female Faston Terminals |
| 1 - MSD Relay, PN 8861 | 2 - Butt Splice 12 Gauge Terminals |
| 1 - Red 18 Gauge Wire | 1 - Butt Splice 18 Gauge Terminal |
| 1 - Black 18 Gauge Wire | 4 - Mounting Screws |
| 1 - Red 12 Gauge Wire | |

A length of 1/8" ID hose is required to connect from an intake port to the MSD Control.

WARNING: Disconnect the battery during installation. When disconnecting the battery, always remove the negative cable first and install it last.

The MSD Fuel Pump Booster must be wired with the factory fuel pump relay. The factory relay has safety features built in such as an inertia switch and high pressure shut-off which must be retained. It is recommended to have the Service Manual for your vehicle to identify the original wiring and fuel pump relay.

The Fuel Pump Booster will increase the voltage to the factory fuel pump in proportion to manifold boost pressure. The maximum voltage output is 22 volts with 30 psi (potentiometer at full CW position) while the minimum output (full CCW position) will be 1.5 volts over the battery voltage with 5 psi. The following chart shows the voltage output range.

Position	Manifold PSI	Output Volt/Amps	Input Volt/Amp
CW	5 PSI	15.7 Volts/7.5A	13 Volts/7.5A
CCW	5 PSI	14.4 Volts/ 6.9A	13 Volts/6.9A
CW	30 PSI	22 Volts/10.5A	13 Volts/21.9A
CCW	30 PSI	16.3 Volts/7.7A	13 Volts/11.2

Maximum power output is 230 watts continuous. Max input power is 275 watts continuous.

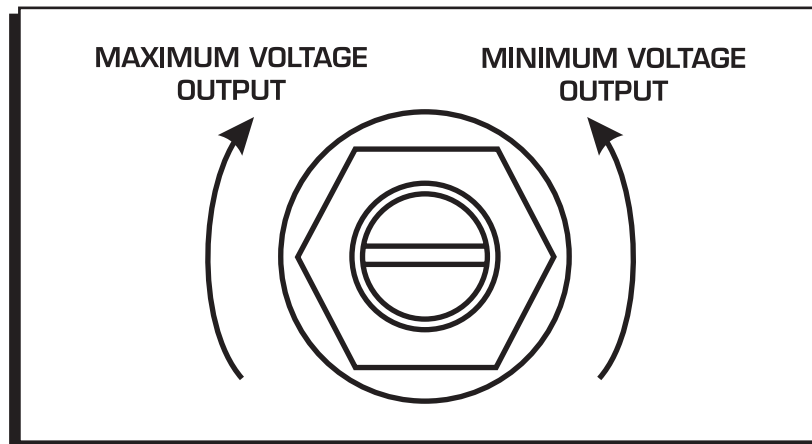


Figure 1 Adjustable Potentiometer for Voltage Output.

WIRING

Note: The long power leads of the MSD must be routed to within a foot of the fuel pump. Factory wiring will not carry the increased voltage and current that the MSD Booster produces.

WIRING	
ORANGE w/30 Amp Fuse	To the MSD Relay, terminal #30.
SHORT BLACK	Connect to the battery negative (-) terminal.
RED JUMPER	Connects to the battery positive (+) terminal and MSD Relay.
LONG RED 12 Gauge	To positive (+) lead of the fuel pump.
LONG BLACK 12 Gauge	To negative (-) lead of the fuel pump.

INSTALLATION

The MSD Fuel Pump Booster can be mounted in any position and is completely potted with a polyurethane compound for vibration resistance. Keep the unit away from direct engine heat sources and make sure all of the wiring reaches their connections. Also, allow access to the adjustable potentiometer. Use the unit as a template and mark the mounting holes. Remove the unit and drill the holes using a 3/16" bit. Mount the unit with the supplied screws.

With the unit mounted, route the wiring to their connections. Also connect the boost pressure line to the Control and intake manifold.

Before starting the engine, position the potentiometer in the full CCW position (Figure 1). Testing and tuning is the best way to dial in the fuel pressure to meet your engine's demands. Having a fuel pressure and boost gauge are highly recommended.

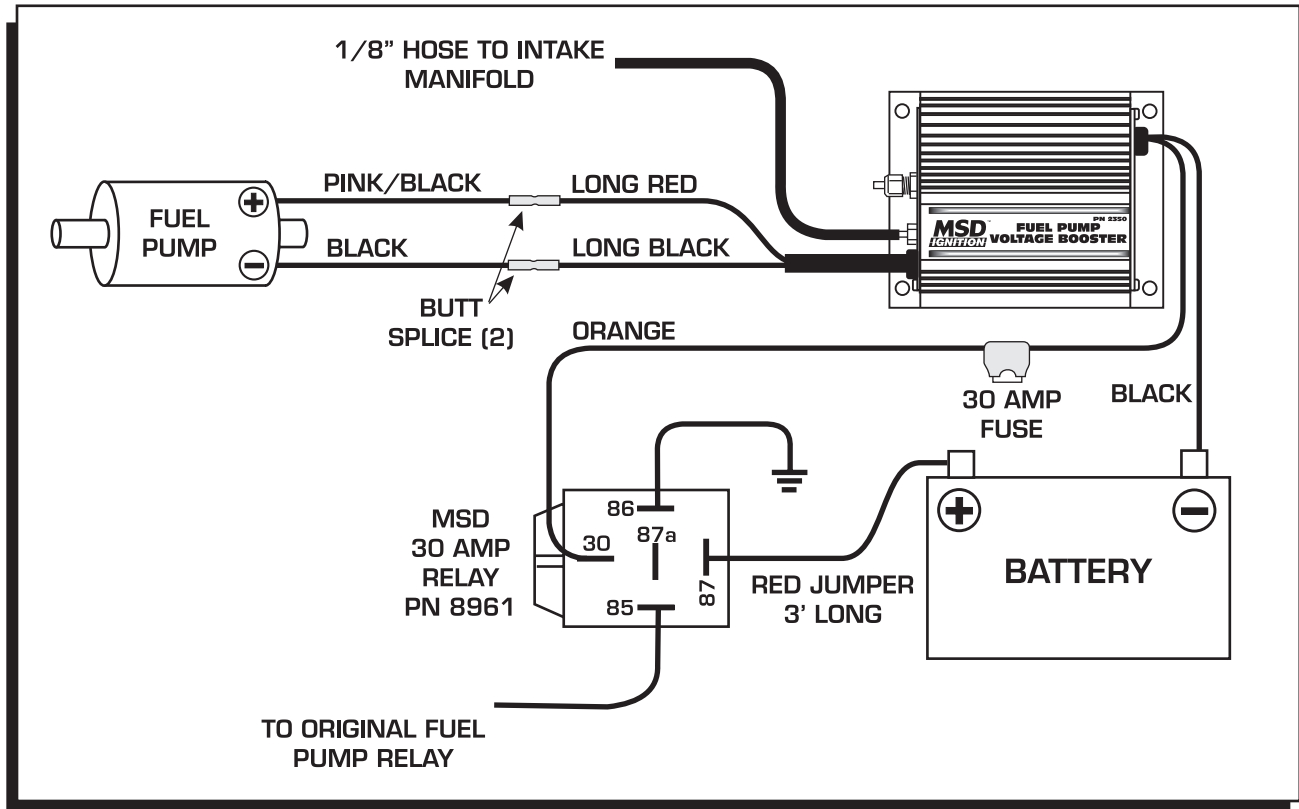


Figure 2 General Wiring of the Fuel Pump Booster.

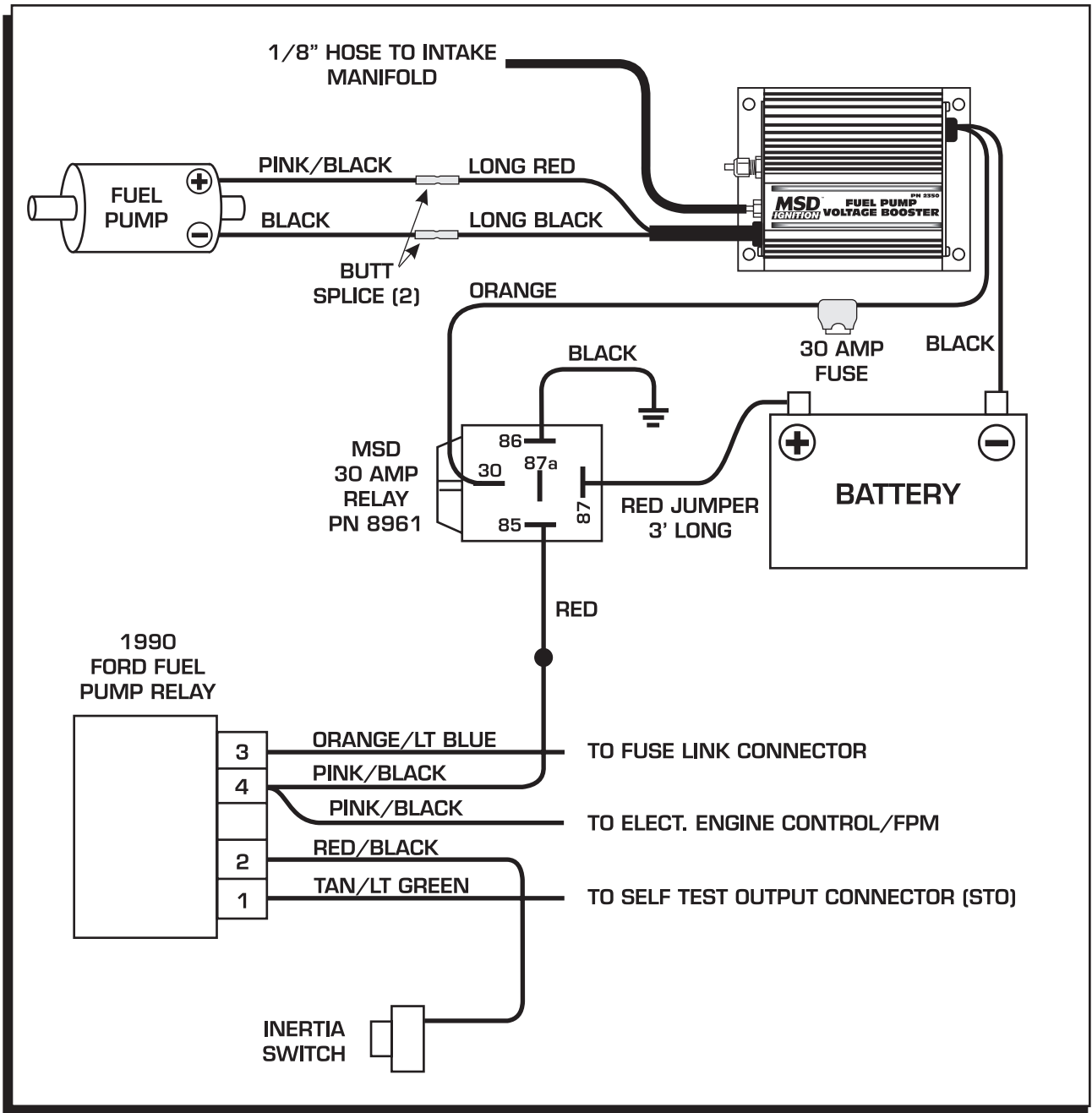


Figure 3 Wiring the Booster to a 1990 Mustang.

TUNING

It is recommended to have a boost gauge and a fuel pressure gauge when testing and tuning with the Fuel Pump Booster. The fuel pressure should hold steady under full boost. Use your boost pressure as a starting reference point. If your max boost is 4-5 psi, start with the potentiometer closer to full CCW. If max boost is 15 psi or higher, start with the potentiometer near full CW position.



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TECH NOTES

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 warranty service, **Proof of Purchase** must be supplied for verification. After the warranty period has expired, repair service is based on a minimum and maximum fee.

All returns must have a Return Material Authorization (RMA) number issued to them before being returned. To obtain an RMA number please contact MSD Customer Service at 1 (888) MSD-7859 or visit our website at www.msdisignition.com/rma to automatically obtain a number and shipping information.

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 using Ground shipping methods (ground shipping is covered by warranty). For more information, call MSD Ignition at (915) 855-7123. MSD technicians are available from 7:00 a.m. to 6:00 p.m. Monday - Friday (mountain time).

Limited Warranty

MSD IGNITION warrants this product to be free from defects in material and workmanship under its intended normal use*, when properly installed and purchased from an authorized MSD dealer, for a period of one year from the date of the original purchase. This warranty is void for any products purchased through auction websites. If found to be defective as mentioned above, it will be repaired or replaced at the option of MSD Ignition. Any item that is covered under this warranty will be returned free of charge using Ground shipping methods.

This shall constitute the sole remedy of the purchaser and the sole liability of MSD Ignition. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representation whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall MSD Ignition or its suppliers be liable for special or consequential damages.

*Intended normal use means that this item is being used as was originally intended and for the original application as sold by MSD Ignition. Any modifications to this item or if it is used on an application other than what MSD Ignition markets the product, the warranty will be void. It is the sole responsibility of the customer to determine that this item will work for the application they are intending. MSD Ignition will accept no liability for custom applications.