

MSD[™] IGNITION INSTALLATION INSTRUCTIONS

MSD 44 AMP PRO MAG GENERATOR Clockwise Rotation - PN 8130, CCW - PN 81401

Parts Included In This Kit
1 - 44 Amp Pro Mag Generator
1 - Timing Tape, PN 8126

INSTALLATION

Note: The MSD Pro Mag cannot be used with a conventional "buzzbox" to set the timing prior to running the engine. MSD offers a setup tool, PN 8122, to help get the generator positioned to your exact timing, but it is not required for installation.

To get a good starting point, position the number one cylinder to the desired timing. Install the generator into the drive housing. Position it so the rotor tip is leading into the distributor cap terminal (Figure 1). Once in the correct position lock down the housing and install the rotor, cap and spark plug wires.

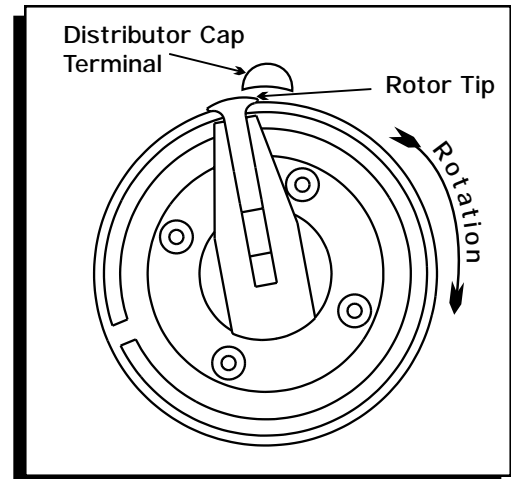


Figure 1 Rotor Tip and Cap Alignment.

WIRING

The Generator connects directly to the Electronic Points Box through a 4-pin Deutsch connector. Two wires lead from the Points Box and connect to the Coil terminals and a third wire must be connected from the coil ground to the cylinder heads of the engine block and chassis ground.

Note: It is not recommended to lengthen the coil primary wiring.

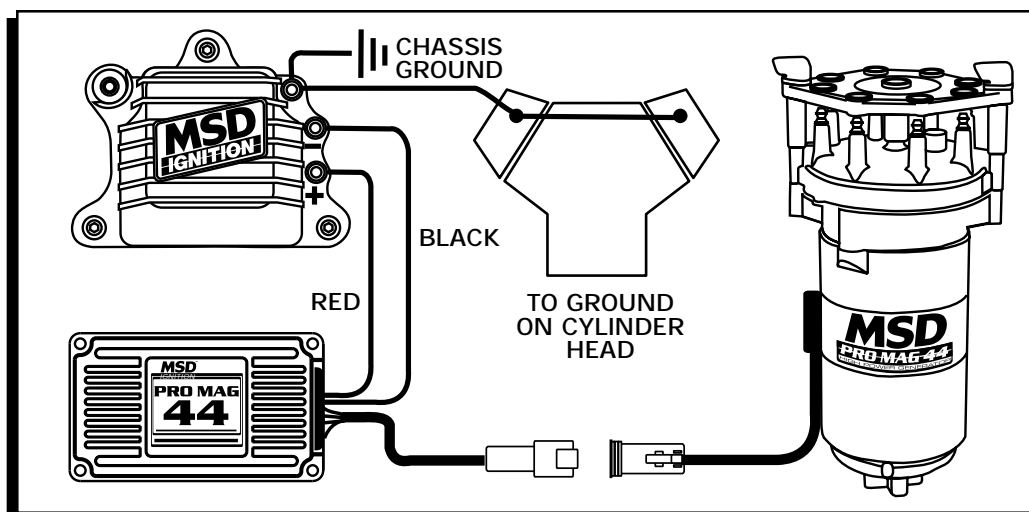


Figure 2 Wiring the Pro Mag 44 System.

WIRING REPAIR KIT

MSD offers a special kit consisting of connectors used with the Pro Mag 44. The kit, PN 8124, is designed for field repairs and it is recommended to have MSD repair any major wiring problems for a complete repair.

STARTING

The Pro Mag 44 requires about 250 rpm to fire during cranking.

Block Mounted Starters: On engines equipped with block mounted starters, a 16 volt battery is recommended. If the engine is equipped with a blower, it is required to have at least 16 volts.

Removable Blower Pulley Starters: It is recommended to have a 48 volt starter system when cranking the engine by the blower pulley. On these applications, a removable jumper wire is connected across the coil terminals creating a short. Once the engine reaches the required starting rpm, this jumper should be quickly pulled from the terminals.

Warning: Never touch the coil terminals with the engine running.

ACCESSORIES

KILL SWITCH

It is mandatory to have an ignition kill switch on all race cars in NHRA and IHRA. MSD offers an Air Operated Kill Switch, PN 8101, for the Pro Mag 44. This switch is recommended for use with the 44 Amp Pro Mag. It can be wired for single or dual magneto systems (Figure 3).

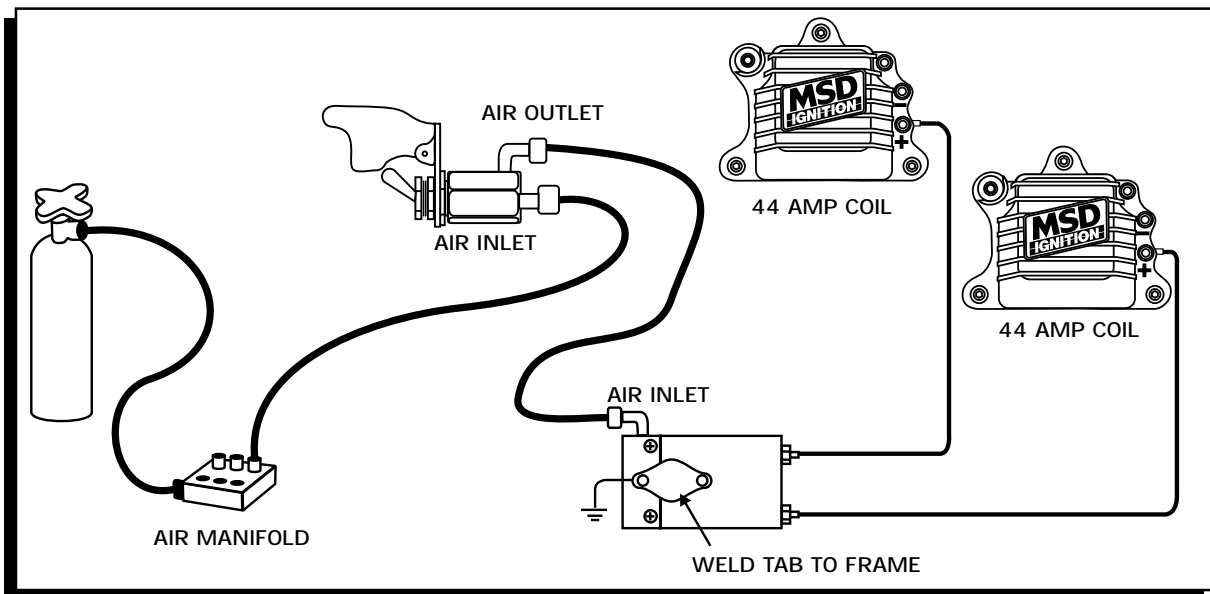


Figure 3 Wiring the Air Kill Switch.

TIMING TAPE

The supplied Timing Tape should be applied to the generator just above the stabilizer bracket or the band clamp mount with a fabricated pointer (Figure 4). This tape will help when initially setting up the Pro Mag timing. It is recommended to always check the timing with a timing light for complete accuracy.

DUAL MAG STABILIZER BRACKET

This strong Bracket, PN 8118, will clamp tightly around two 44 Amp Pro Mag generators for added stability.

STANDARD ELECTRONIC TACHOMETERS

MSD offers a Magneto Tach Converter, PN 8132, that modifies the Pro Mag's trigger signal into a signal that can be used with most electronic automotive tachometers. A 12 volt source is required (Figure 5).

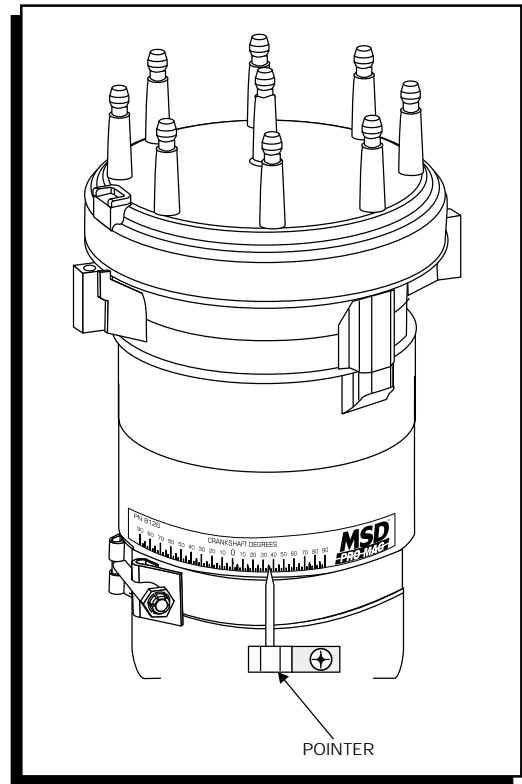


Figure 4 Timing Tape and Pointer.

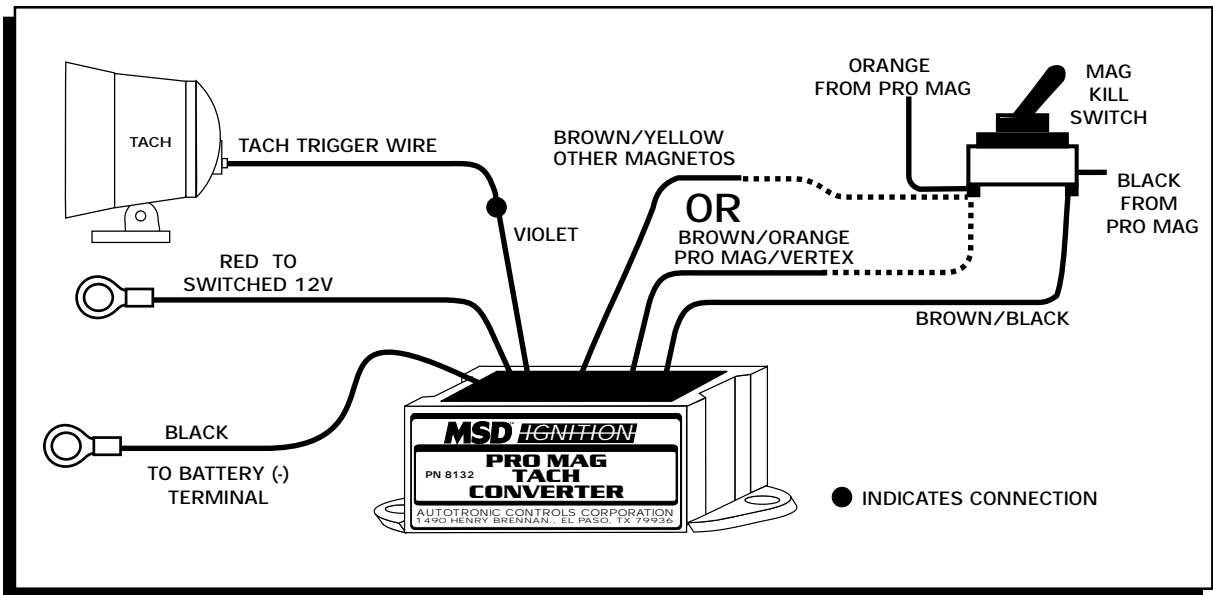


Figure 5 Wiring a Tachometer with the Tach Converter.

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| <p>Replacement Parts: Band Clamp, PN 8146 Dunn Cross Drive Standard, PN 8107 Tall, PN 8129</p> | <p>Field Repair Wiring Kit, PN 8124 Timing Tape, PN 8126 Cap and Rotor Kit, PN 8119</p> |
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INSTALLATION INSTRUCTIONS

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.