



# INSTALLATION INSTRUCTIONS

## PROGRAMMABLE MIDGET IGNITION TESTER PN 8994

**WARNING:** Do not connect directly to coils or this unit will be damaged.

### PARTS INCLUDED:

- 1 - Midget Tester
- 2 - Spark Testers

## PROGRAMMING

This Tester is designed to test the MSD Programmable Midget Ignition, PN 6214, with dual mag inputs on 4-cylinder, four stroke applications. The Tester will produce a signal to each channel in alternating sequence to test their operation. The Tester has an 8-pin harness that plugs into the Midget Ignition Control.

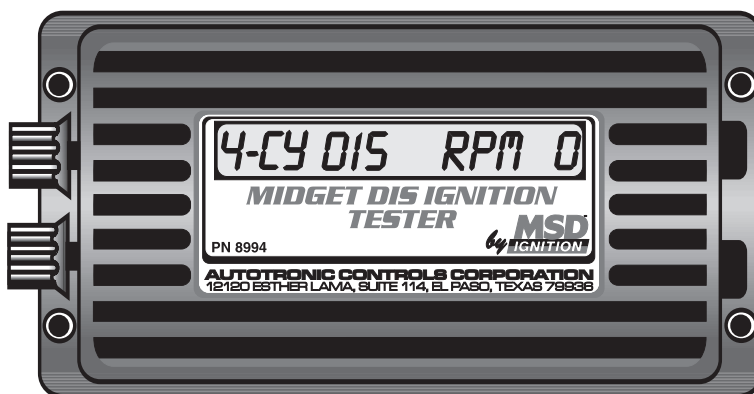


Figure 1 The Tester's Display.

### RPM ADJUSTMENT:

There are two rpm adjustments on the Tester. This can also help check the accuracy of a tachometer.

**Coarse Adjustment:** When this knob is turned clockwise the rpm will increase in 100 rpm increments. This allows a large spread of rpm to be covered in a short period of time.

**Fine Adjustment:** When this knob is turned clockwise the rpm will increase in individual increments for precise adjustments.

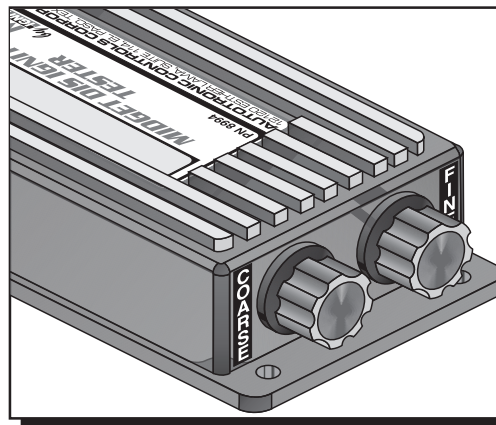


Figure 2 RPM Adjustments.

## INSTALLATION & USE:

1. Be sure the ignition is Off and disconnect the negative battery cable.
2. Remove all of the spark plug wires and at least two spark plugs. Connect the spark testers to one wire from each channel of the coil. The other wires should be connected to two spark plugs. These two spark plugs must be grounded.

**Note:** By connecting the Spark Tester to each channel, a load is applied to the coil to simulate cylinder pressures.

3. Disconnect the 8-pin gray connector from the Midget Ignition. Connect the harness from the Tester to the mating 6214 connector.
4. The Tester's Harness has three loose wires. The Gray and Black will provide a trigger signal and ground for a tachometer. The Blue will activate the alternate timing curve when applied to 12 volts. These are optional wires and do not need to be connected to test the ignition system.
5. Connect the Tester's Red alligator clip to the positive side of the battery and the Black alligator clip to the negative battery terminal (also reconnect the negative battery cable).
6. Make sure both the coarse and the fine adjustments on the tester are turned to the full counter clockwise position (zero).
7. Turn the ignition switch On.
8. Increase the coarse adjustment until you reach the desired rpm. The fine adjustment can be used to get the exact rpm you desire.

## TIPS & TROUBLESHOOTING:

No spark after Tester is connected:

- Make sure you have reconnected all the wiring for the Midget Ignition.
- Look at the LCD display on the tester and make sure the rpm is increasing with the knob.

No fire:

- Swap a new Coil and test again. If there is still no spark the ignition may be at fault and should be sent to MSD.

### 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.