

# MSD INSTALLATION INSTRUCTIONS

## Atomic Idle Air Control PN 2937

**ONLINE PRODUCT REGISTRATION:** Register your MSD product online. Registering your product will help if there is ever a warranty issue with your product and helps the MSD R&D team create new products that you ask for! Go to [www.msperformance.com/registration](http://www.msperformance.com/registration).

### Parts Included:

1-Intake Air Control Motor      1-Fuel Rail O-ring

It is best to remove throttle body from the engine when installing replacement parts.

### REMOVAL

- Disconnect the battery (-) cable.
- Remove the Air Cleaner assembly.
- Disconnect the throttle cable assembly, vacuum hoses, electrical connections, and fuel lines from the throttle body. Be prepared to catch fuel when removing fuel lines.
- Caution should be taken when disassembling the throttle body.

Remove the four bolts that secure the fuel rails from the throttle body (Figure 1).

Disconnect the electrical connectors from the idle air control motor (IAC), injectors, fuel pressure sensor (FPS), and pull the rails away from the throttle body (Figure 2).

**Note:** The fuel rails are sealed with an O-Ring on each side of the throttle body fuel rail mounting surface. Remove the o-rings (Figure 3). Take caution not to score the machined surfaces.



Figure 1

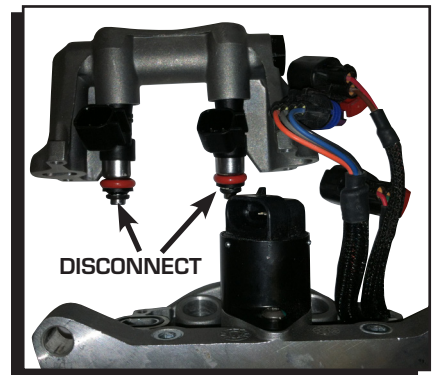


Figure 2

### **⚠️ WARNING**

Installation of this product requires detailed knowledge of automotive systems and repair procedures. Installation of fuel system parts and any fuel tank modifications must be carried out by a qualified automotive technician. Installation of fuel system parts requires handling of gasoline. Ensure that work is performed in a well ventilated area with an approved fire extinguisher nearby. Extinguish all open flames, prohibit smoking and eliminate all sources of ignition in the area of the vehicle before beginning the installation.

When working with fuel systems, eye goggles and other safety apparel should be worn to protect against debris and sprayed gasoline. The finished work must be thoroughly checked to ensure there are no fuel leaks.

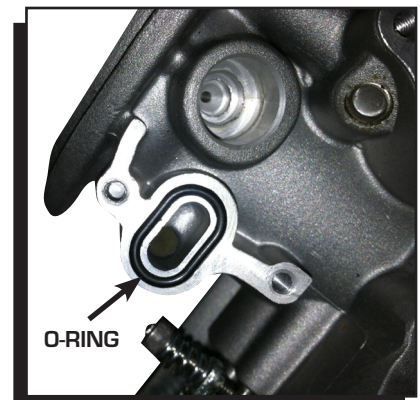
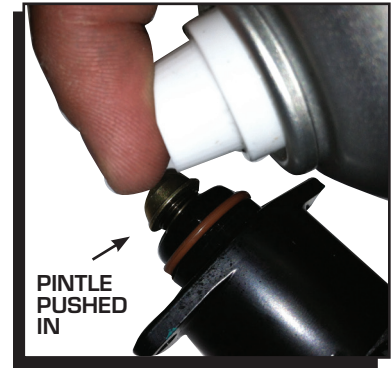


Figure 3

**INSTALLATION**

1. Ensure the mating surfaces are clean and free of debris.
2. Push the Pintle into the IAC motor.
3. Lubricate o-ring (Figure 4).
4. Install the IAC into the throttle body.
5. Install the two screws that secure the IAC motor to the throttle body.
6. Turn the screws in evenly to prevent the IAC motor from lodging sideways and damaging the motor.
7. Torque the screws securing the IAC motor to 17-19 in lb.
8. Connect the 4-pin electrical connector onto the IAC motor.
9. Lightly lubricate the injector O-rings with motor oil or silicon lubricant and reinstall the injectors into the fuel rail first. Do not pinch O-rings.
10. Line up the injectors with the bungs on the throttle body, and push the fuel rail in.
11. Reinstall the screws securing the fuel rail to the throttle body. Take care and hand tighten the screws evenly. This is done to ensure the fuel rail is sitting flush and not pinching any wires from the injectors or IAC motor.
12. Torque the screws to 25-30 in lb.
13. Reinstall the throttle body onto the intake.
14. Reconnect all electrical connectors, fuel lines to the throttle body, and throttle linkage.
15. STOP. Check all the electrical connections and Fuel lines for kinks, bends, pinches, any other abnormality and fuel leaks.
16. Cycle the ignition to the ON position for two seconds, (DO NOT CRANK THE ENGINE) and then off for ten seconds.
17. Start the engine and ensure the IAC motor is operating correctly by watching the IAC count on the handheld control of the Atomic EFI.

**Figure 4 Lubricate O-Ring****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.msdpower.com/rma](http://www.msdpower.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 at (915) 855-7123. MSD technicians are available from 7:00 a.m. to 5:00 p.m. Monday - Friday (mountain time).

**Limited Warranty**

MSD 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. 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. 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 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. Any modifications to this item or if it is used on an application other than what MSD 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 will accept no liability for custom applications.