

MSD INSTALLATION INSTRUCTIONS

Atomic Idle Air Control PN 2937

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

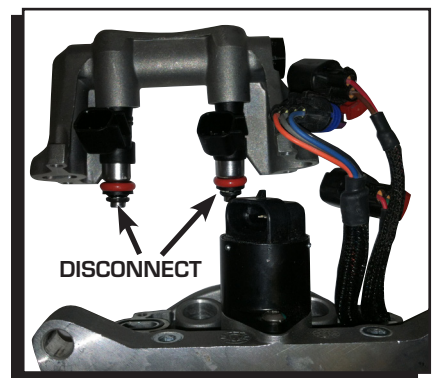


Figure 2

⚠️ 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.

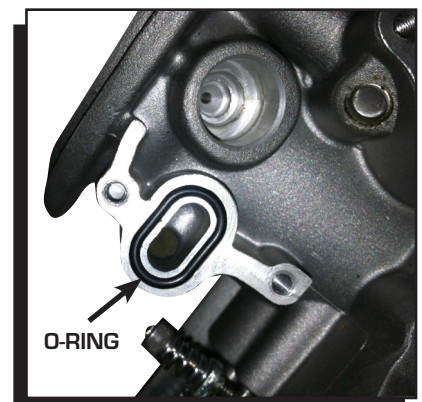


Figure 3

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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