# Atomic LS Throttle Body PN 2940

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.msdperformance.com/registration.

Thank you for purchasing the MSD LS Throttle Body. The throttle body is made of a cast aluminum housing which will provide flawless performance and reliability for years. The MSD throttle body can be used on four bolt throttle body mounting flange manifolds for a cable driven conversion.

**Warning:** The MSD throttle body is a 90mm throttle body, and it is not compatible with 102mm throttle body openings available with some aftermarket intake manifolds.

### Parts Included:

1-Throttle Body 2-M4 x 8mm Screws 2-M4 x 12mm Screws

4-M6 x 25mm Bolts

4-.265 x .50 Washers

### Parts needed but not included:

TPS/IAC Kit for LS Throttle Body PN 2940, PN 2942 Intake Manifold/Throttle Body Gasket (AC-Delco PN 217-2424)

**Note:** The MSD Throttle Body is not supplied with sensors. MSD recommends the use of PN 2942, TPS/IAC kit.

### PREPARATION OF THE THROTTLE BODY

- 1. Place the Throttle Position Sensor (TPS) sensor onto the throttle body with the centering dowel in the locating hole (Fig 1).
- 2. Use a drop of blue Loctite on the M4 x 12mm screws, and secure the TPS to the throttle body. Torque the bolts to 16 in lb 18 in lb.

#### INSTALLATION OF THE THROTTLE BODY

- 1. Make sure the mating surfaces of the throttle body and manifold are clean and free of debris.
- 2. If the old throttle body gasket is in good condition, reuse the old gasket. Otherwise, install a new throttle body gasket (AC Delco PN 217-2424).
- 3. Preassemble each M6 x 25mm bolt with a washer. Use a drop of blue Loctite on the bolts.
- 4. Install the throttle body onto the manifold and secure it with the M6 x25mm bolts. Hand tighten the bolts and torque them down to 89 in lb.
- 5. Place the Idle Air Control (IAC) motor into the throttle body.
- 6. Use the M4 x 8mm screws to secure the IAC motor to the throttle body. Torque the bolts to 25 in lb 27 in lb.
- 7. Connect sensors, throttle cable, PCV hose and air inlet ducting as required.



Figure 1 Dowel Pin Location.

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.msdperformance.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.