

MSD INSTALLATION INSTRUCTIONS

MSD Atomic EFI Coil Covers for LS2/3/7 Platforms PN 2970, PN 2971 and PN 2972

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.

Parts Included:

4 - Coil Cover Mounting Brackets
2 - Atomic LS Coil Covers
2 - Cardboard Templates
4 - Rubber Isolators

2 - Sections of Foam Tape (Unfinished Covers only)
8 - Coil Mounting Bracket Bolts
12 - Fuel Rail Mount Clip Screws
4 - Fuel Rail Mounting Clips

⚠ 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.

Note: The MSD Atomic LS Coil covers are designed to be used with the Atomic LS EFI system only. They can be used with stock coil brackets or with MSD's cast aluminum coil brackets, PN 8216.

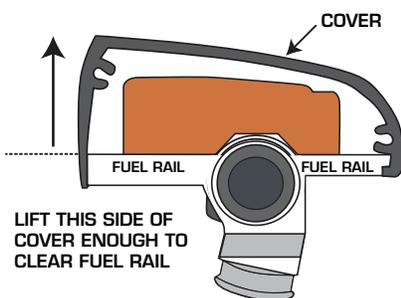
Templates: Two cardboard templates of the Coil Covers are supplied. If there are clearance issues with the cowl, AC, brackets or master cylinder, the templates will help you determine any modifications that may be required.

PREPARING THE FUEL RAILS

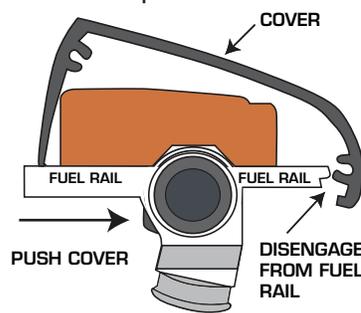
Installation of the Coil Cover retaining brackets require that the fuel rails be removed from the engine. This means disconnecting the fuel lines. Care must be taken to reduce any fuel pressure before disconnecting and plugging the lines.

1. With the battery disconnected and fuel lines removed, follow the procedure in Figure 1 to remove the Atomic fuel rail covers (Figure 1).

1. Remove the four screws holding the covers to the fuel rail and lift the cover to clear rail.



2. When the cover is clear of the fuel rail push the cover towards the manifold until it disengages from the lip of the rail.



3. Lift the cover straight up.

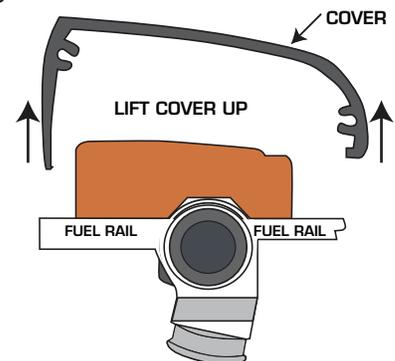


Figure 1 Removing the Fuel Rail Covers.

2. Disconnect any sensors and connectors (injectors do not need to be disconnected) from each fuel rail.
3. Remove the four fuel rail mounting bolts and lift the assembly off the intake manifold.
4. Place the fuel rails upside down on a flat surface. Locate the coil cover retaining brackets and supplied socket head cap screws. Install the brackets with the hardware as shown in Figure 2.
5. The fuel rail is ready to be reinstalled to the intake manifold. Inspect the injectors to make sure they are clean and each O-ring is in place.
6. Position the fuel rail assembly on the intake manifold making sure each injector is positioned into the intake. Secure the assembly with the mounting hardware and reconnect the electrical connectors and fuel lines.
7. Before proceeding with the cover installation, it is recommended to connect battery power and check for fuel leaks and to confirm all of the wiring connections are made.

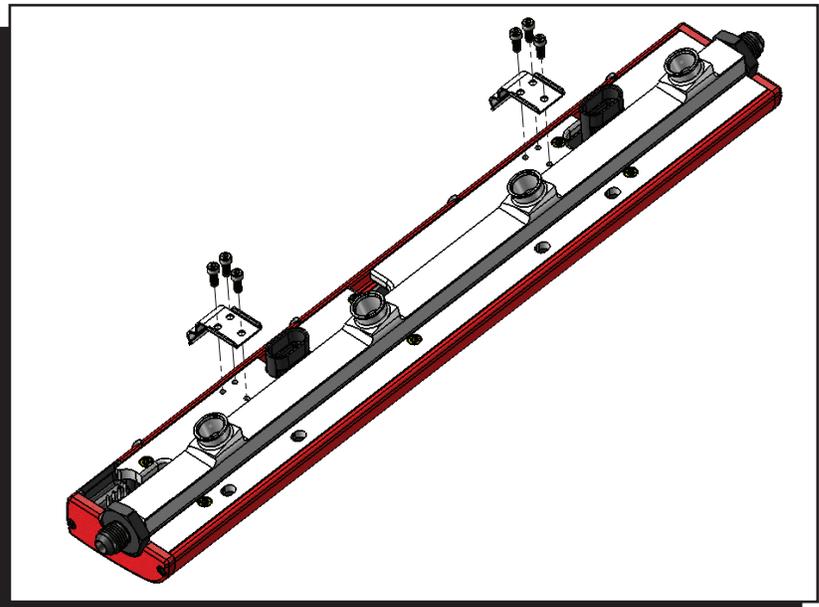


Figure 2 Coil Cover Bracket Installation.

COIL COVER BRACKET PREPARATION

The isolators for the Coil Covers must be installed in the correct location on the supplied cover retaining brackets. Note that the brackets are designed to fit the OEM or MSD coil brackets. The location of the isolator varies depending on the coil brackets being used. Figure 3 shows the isolator location for each combination.

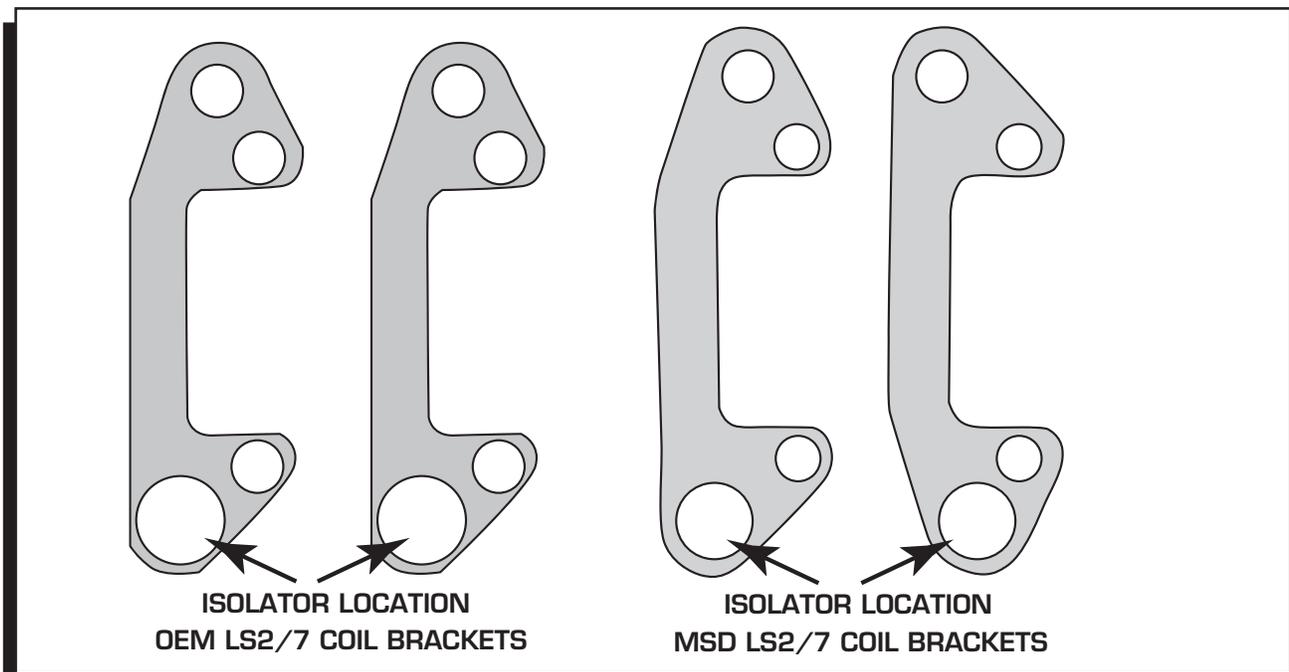


Figure 3 Installing the Isolators.

COIL COVER BRACKET INSTALLATION

1. Unbolt the coils for cylinders 3 and 7 on the driver's side bank and 2 and 6 on the passenger side.
2. Install the supplied cover bracket over the coil studs with the open hole pointing towards the top (inward) of the engine as shown in Figure 4 and 5 then reinstall the retaining nuts.

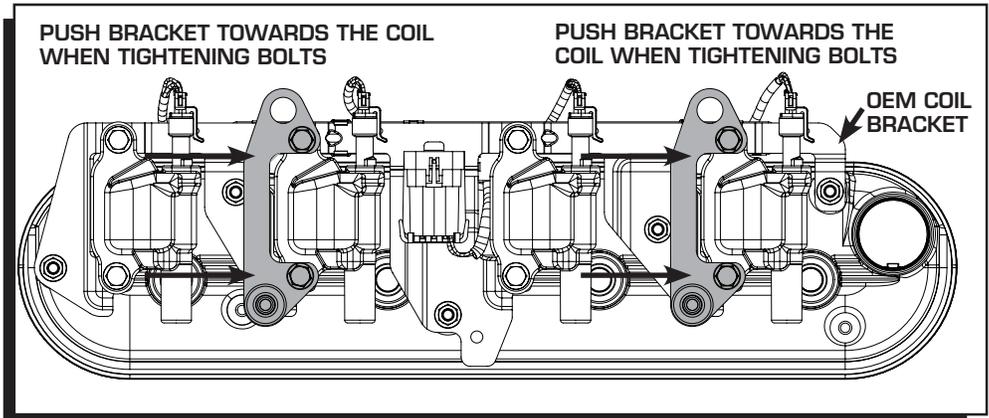


Figure 4 Installing the Coil Cover Brackets with OEM LS2/7 Coil Brackets.

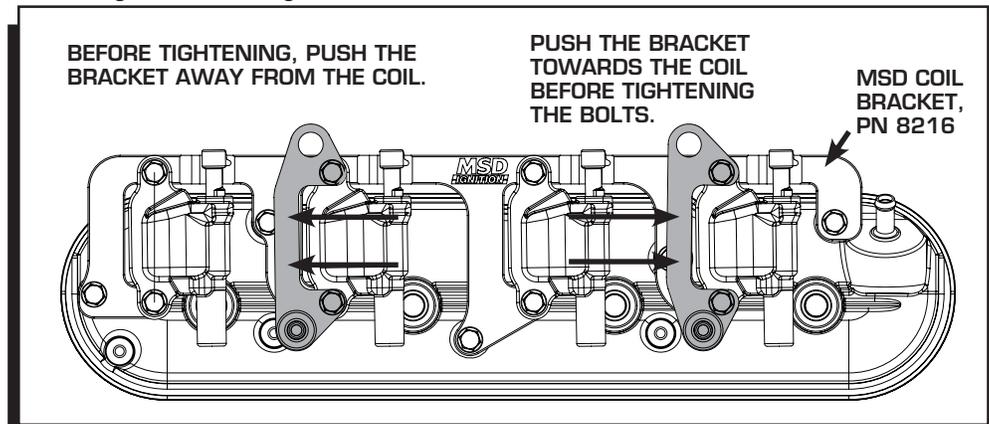


Figure 5 Installing the Coil Cover Brackets with MSD's LS2/7 Aluminum Coil Brackets.

3. If you are installing the natural cast coil covers, you will need to install the supplied foam tape to the top of the cover. Prepare the coil covers by applying the supplied black foam tape to the top edge of the cover (Figure 6). This material will act as a seal and dampener between the fuel rail and the cover.

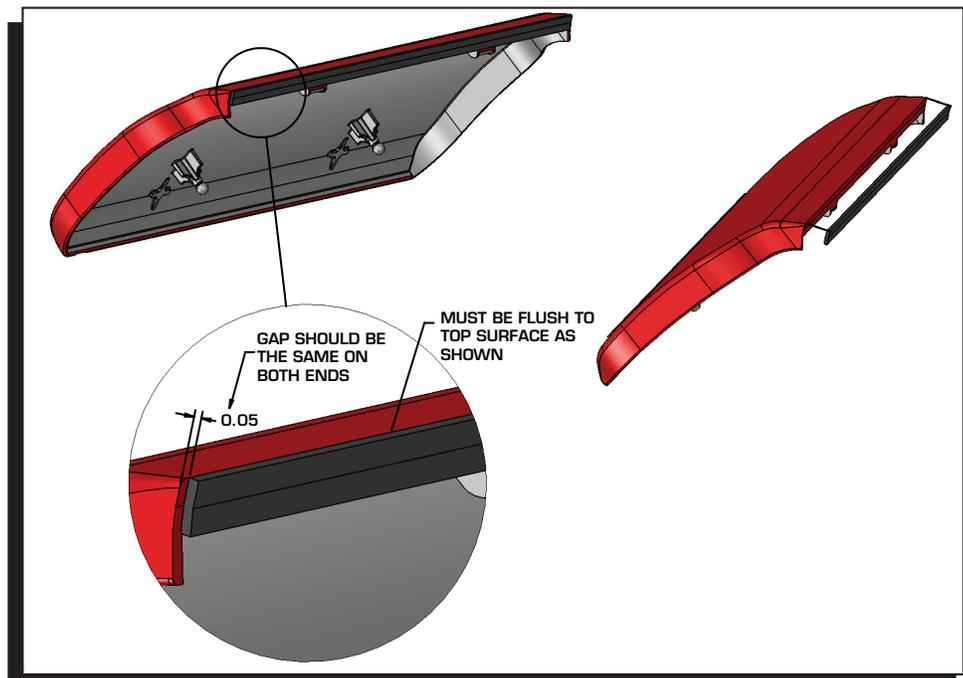


Figure 6 Applying Foam Tape to Unfinished Covers.

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4. Position the cover in place over the coils with the top aligning against the fuel rail. Press the cover down from the top, then press from the bottom to secure the assembly to the cover brackets (Figure 7).

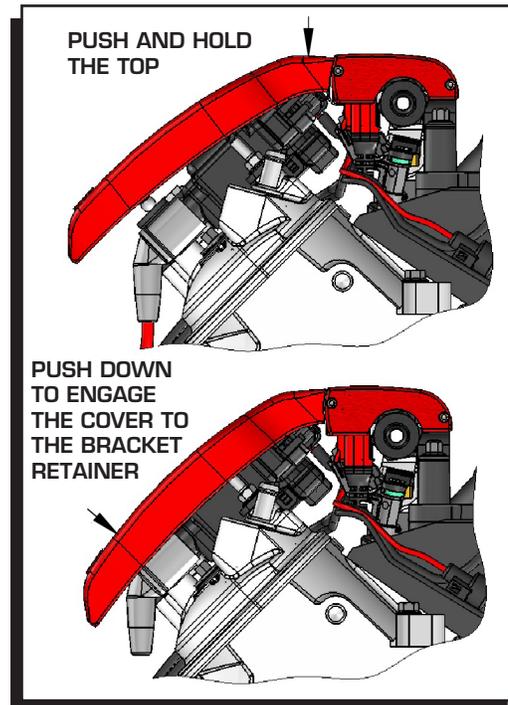


Figure 7 Installing the Coil Covers.

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 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.