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INSTALLATION INSTRUCTIONS - INS128

FUEL RAIL KIT

Part # 5016 // 1999 - 2004 Ford Mustang 4.6L 2-V



SPECIAL TOOLS REQUIRED: 1/2" & 5/8" Spring-Lock type fuel disconnect tools, White Lithium Grease and Teflon Tape



INSTALL TIME: Approximately 2 hours.



DIFFICULTY: Average.



MADE IN U.S.A.

IMPORTANT: All appropriate safety equipment and gear must be used during the installation of this or any BBK Performance products or any time you work on a vehicle. BBK Performance accepts no responsibility for injuries or damage caused by or during the installation of this product.

UPDATED LAST: April 2019



FOLLOW THESE INSTRUCTIONS CAREFULLY TO ENSURE CORRECT FITMENT AND OPERATION

STEP 1

Disconnect the negative battery terminal. Remove the air inlet hose assembly from the throttle body.

NOTE!!! The throttle body does not need to be separated from the plenum for the next step. You can remove them together as one.

STEP 2

Disconnect the throttle cables, unplug the sensors and vacuum connections from the intake plenum (also known as the intake elbow), unbolt the EGR valve from the driver side and unbolt and remove the intake plenum assembly.

NOTE!!! In the next step you will release the fuel pressure in the fuel rails. Be sure to extinguish any open flames and disable any spark or ignition sources, or other potential fire hazards around the work area. Keep in mind that Gasoline VAPORS are more flammable than gasoline itself.

STEP 3

Hold a rag around the Schrader valve on the front of the driver side fuel rail, and then bleed off any fuel pressure by depressing the valve with a small flat head screwdriver or pick tool.

STEP 4

Unplug the electrical connections from the fuel injectors and fuel pressure sensor. With a 5/8" Spring Lok removal tool, disconnect the fuel feed line from the fuel rails. Use an 8mm socket to remove the bolts that attach the fuel rails to the intake manifold. Remove the fuel rails and injectors by simply lifting them straight up.

STEP 4 (CONT.)

CAUTION! Now is the time to inspect your fuel injector tips and O-Rings. If they are damaged, replace them. Damaged O-Rings can cause a fuel leak.

Remove the fuel pressure sensor from the driver side fuel rail.

STEP 5

Apply a touch of white grease to all of the supplied O-Rings and to the O-Rings on the Fuel Injectors.

Place (1) O-Ring over the ends of the (2) Rail End Caps, the (2) rail end adapters, and the (1) 58" Spring Lok Fitting. Remove the (2) O-rings from the pressure switch. Install the (1) supplied small O-Ring into the groove closest to the sensor head.

STEP 6

For both rails, install an end cap on the front of the rail and a rail end adapter on the rear of each rail and attach the rail mounting tabs with the supplied 1/4"-20 bolts.

NOTE!!! Each Rail mounting tab has a round hole and a slotted hole. The round holes will attach to the rails. The slotted holes will attach to the intake manifold. Use the supplied washers at the intake manifold end and fuel rail mount tabs.

STEP 7

Install the supplied Spring Lok fitting into the side of the passenger rail. Insert (4) injectors into the passenger side rail.

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STEP 8

Install the passenger side rail and injectors by guiding the tip of each injector into its respective bung in the intake manifold. Secure the rail to the intake manifold using the supplied hardware.

NOTE!!! To ensure clearance between the fuel rails and ignition coils, use (1) of the supplied washers under the mounting tabs and place (1) over the threaded portion of each bolt that go through the tabs at the intake manifold.

Take extreme care when installing the small button head cap screws (BHCS) into the fuel rail. Using the wrong length will penetrate the fuel rail resulting in a fuel leak. Use the supplied washers underneath the small BHCS's. In addition these screws can easily cross thread.

STEP 9

Install the original fuel pressure sensor onto the driver side fuel rail with supplied o-ring and the supplied 10-32x1/4" BHCS's.

NOTE!!! Measure these screws from the bottom of the head to the end first to ensure you are using the correct hardware here!

STEP 10

Insert (4) injectors into the driver side rail. Install the driver side fuel rail and injectors by guiding the tip of each injector into its respective bung in the intake manifold. Secure the rail to the intake manifold by using the supplied hardware.

STEP 11

Assemble the cross over hose by pushing the barbed ends of the supplied 90 degree fittings into the end of the hose. Tighten the cross over hose onto the threads of the rail end adapters on the back of both rails.

NOTE!!! When routing the cross over hose, be mindful of hot EGR tube it must pass by. Route so no contact is made with the EGR Tube.

STEP 12

Route the stock fuel feed line under the A/C line and connect to the 5/8" Spring Lok fitting on the side of the passenger side fuel rail.

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