



**FORD 5.0L EFI FIREWALL FORWARD RUSSELL
PLUMBING KIT
Catalog #641550
INSTALLATION INSTRUCTIONS**

Please study these instructions carefully before installing your new complete fuel system kit. If you have any questions, please call our **Technical Hotline at: 1-800-416-8628**, 7:00 am to 5:00 pm, Monday - Friday, Pacific Standard Time or e-mail us at **Edelbrock@Edelbrock.com**.

KIT CONTENTS

- 1 Fuel Pressure Regulator Kit #1728
- 3 3/8" NPT x -6 AN male adapter
- 1 3/8" NPT x -6 AN male adapter w/ 1/8" NPT port
- 1 Mustang 5.0 fuel rail kit
- 2 -6 AN dry sump union
- 1 -6 AN plug
- 6 Tie wraps
- 10 ft. -6 hose
- 3 -6 AN Straight hose end
- 1 -6 AN 45° Swivel hose end
- 4 -6 AN 90° Swivel hose end
- 1 -6 AN to Ford Pressure side fitting
- 1 -6 AN to Ford Supply side fitting
- 1 Assembly lube/sealant kit
- 1 0 - 100 psi fuel pressure gauge

TOOLS & SUPPLIES RECOMMENDED

- Basic hand tools
- AN Wrenches
- Drill motor & bits
- EFI fuel line disconnect tool
- Miscellaneous hardware for mounting components
(including nuts & bolts)

WARNING!!!

Gasoline and gasoline fumes are extremely flammable. Work in a well-ventilated area away from open flames, sparks, or other sources of ignition. Try to contain gasoline when connections are loosened, and clean up any spills immediately. Failure to do so can result in a fire or explosion.

IMPORTANT NOTE:

Proper installation is the responsibility of the installer. Improper installation will void warranty and may result in poor performance and engine or vehicle damage.

WARNING:

MAKE SURE TO DISCONNECT YOUR BATTERY TO AVOID THE POTENTIAL FOR SPARKS IN THE WORK AREA!

SOME PROCEDURES IN THIS INSTALLATION WILL REQUIRE THE VEHICLE TO BE RAISED ON JACKSTANDS OR A LIFT. WHEN RAISING A VEHICLE, MAKE SURE THE VEHICLE IS ON LEVEL GROUND AND SUPPORTED SECURELY BY JACKSTANDS. NEVER WORK UNDER A VEHICLE THAT IS SUPPORTED BY A JACK ONLY!

BEFORE BEGINNING

Someone who has a basic knowledge of automobile repair and modification and is familiar with and comfortable with working on their vehicle can accomplish the mechanical installation of this kit using common tools and procedures. However, this kit is designed to allow you to custom fit the fuel lines and components to your application, and will require that you cut hoses to fit and drill holes for fuel pressure regulator mounting, junction blocks, etc. If you do not feel comfortable with any of the steps listed below, please consult a qualified professional installer. Make sure to read the instructions provided with the supplied fuel rail and fuel pressure regulator. These will be referenced throughout this instruction sheet.

AFTER INSTALLATION, BEFORE STARTING THE VEHICLE ALWAYS make sure to check for any leaks BEFORE starting the vehicle. Reconnect the battery and turn the ignition key to the "ON" position. This will activate the fuel pump and pressurize the fuel system. If any leaks are present, turn the ignition "OFF", disconnect the battery, and make the necessary corrections before continuing.

Stock fuel rail disassembly

1. Make sure the vehicle is on level ground, and the gear selector is in park or 1st gear. Set the parking brake or chock the wheels.
2. Make sure that the vehicle has cooled down.
3. Disconnect the negative terminal on the battery.
4. Thoroughly clean the area surrounding the fuel injectors and the fuel rail. This will prevent debris from entering the fuel system or the intake manifold upon fuel rail/injector removal.
5. Relieve residual fuel pressure in the fuel system. Remove the dust cap cover over the Schrader valve located on the fuel tube leading to the rail. Hold a shop towel or rag around the valve while relieving the fuel pressure to prevent any fuel spray.
6. Using the EFI coupling release tool, disconnect the fuel feed and return lines. Use a shop towel or rag to catch any residual fuel remaining in the factory lines.
7. Remove the bolts holding the fuel rail to the intake manifold.
8. Remove the fuel regulator, vacuum hose, fuel rail, and the fuel injectors.
9. Inspect and replace the fuel injector o-rings if necessary.
10. You will also need to remove the remaining fuel hard tube (feed and return) running from the fuel rail to the lower firewall.

Russell (Manifold Kit) fuel rail install

1. Attach supplied brackets to the supplied fuel rails using the supplied hardware. Use thread locking compound.

Note: *Install most of the necessary components onto the fuel rail before installing in vehicle for ease of assembly. Be sure to use thread sealing compound on NPT threads to prevent leaks.*

2. Using the supplied 3/8 NPT plug, install into the front end of the driver's side fuel rail. This end of the fuel rail will be located behind the distributor.
3. Choose a suitable location on the fuel rails for a -3/8 NPT male to -6 AN male pressure adapter to be installed. Loosely install the -3/8 NPT male to -6 AN male pressure adapter into the fuel rail. Mock up the fuel rail with the pressure gauge installed on the fuel pressure adapter fitting to check for clearances. After a suitable location has been determined, correctly install the pressure adapter fitting and the fuel pressure gauge.
4. Install the 3/8 NPT male to -6 AN male fittings into the rest of the inlets and outlets of the fuel rails.
5. Depending on which intake manifold is used in conjunction with this fuel system kit, the fuel rail spacers (included) might need to be used to properly space the driver's side fuel rail from the intake manifold.
6. Mount the assembled fuel rails onto the intake manifold. Careful attention should be paid to prevent any damage to the injector o-rings during installation. Fasten the fuel rails to the intake manifold using the supplied hardware or the factory hardware.

Fuel pressure regulator install

1. Find a safe and clean location in the engine compartment for the placement of the fuel regulator and its mounting bracket (supplied). In most applications, the best placement for the regulator is on the firewall. Make sure that the location will allow access for two hoses, entering from the side and exiting from the bottom of the regulator.

Note: Some modification to the fuel pressure regulator bracket may be needed for the correct fitment in your desired location. Refer to the included fuel pressure regulator instructions for details.

2. Following the instructions provided with the fuel pressure regulator, mark and drill the mounting holes for the fuel pressure regulator bracket.
3. Install 2 dry sump fittings (-6 AN) into the inlet and exit ports of the regulator.
4. Install the -6 AN plug into the unused inlet port of the regulator.
5. Install the vacuum hose from the regulator to the intake manifold. It might be possible to use your stock vacuum hose for the regulator depending on the placement of the fuel pressure regulator.
6. Roughly install the fuel pressure regulator onto the vehicle to facilitate hose assembly installation.

Russell fuel hose assembly and install

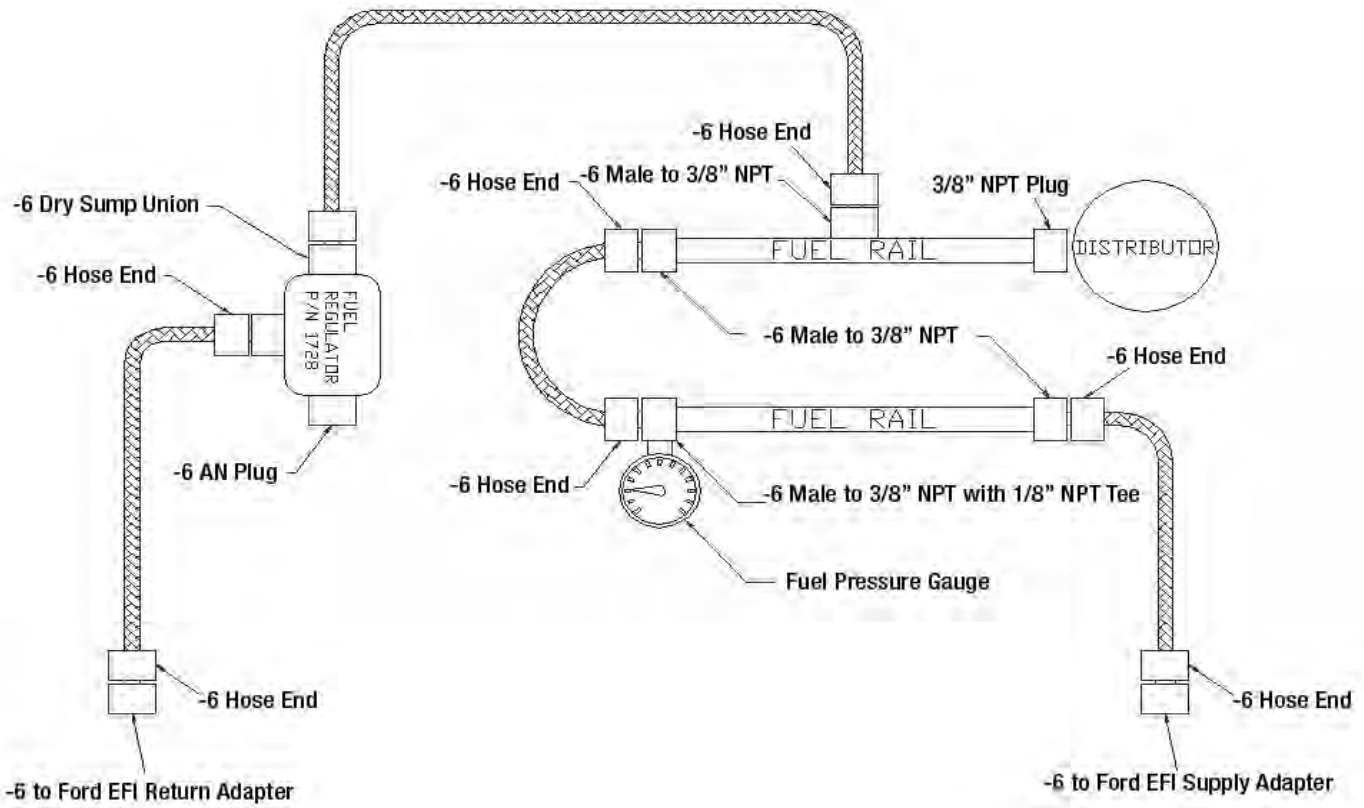
1. Attach the Russell EFI Ford fittings onto the factory supply and return lines. This is accomplished by pushing the proper fittings on to the factory lines until an audible click is heard. Double check connections by tugging on the fitting to ensure that the fitting is properly attached to the factory hard line.

Note: Follow the included hose assembly instructions to properly build the hose assemblies for the fuel system. Ensure that the fuel hoses are properly located and installed so as to prevent damage during the normal operation of the vehicle. Please note that the instructions below give an example of how this fuel system can be routed. It is highly recommended that the installer pre-plan the routing of the fuel system kit to determine which hose end fittings should be used for each hose assembly.

2. Determine the hose path and length required for the fuel hose leading from the EFI supply fitting to the fuel inlet fitting located on the passenger side fuel rail. Build and install the hose assembly.
3. Determine the hose path and length required for the fuel hose leading from the passenger side fuel rail to the driver side fuel rail inlet. Build and install the hose assembly.
4. Determine the hose paths and lengths required for the fuel hose leading from the exit of the driver's side fuel rail to the inlet of the fuel pressure regulator. Build and install the hose assembly.
5. Determine the hose path and lengths required for the fuel hose leading from the outlet of the regulator to the EFI return side fitting. Build and install the hose assembly.
6. Properly install the fuel pressure regulator to the chassis at this time.

Final assembly checklist:

1. Make sure all connections are tight. Make sure the fuel supply and return hoses were not kinked or pinched during installation. Check for any interferences around the fuel system hoses and fittings. The use of tie wraps to secure the hoses is recommended.
2. Reconnect the negative battery terminal. Turn the ignition or fuel pump power switch to the "on" position, but do not start vehicle. Check for leaks.
3. With the ignition still in the "on" position, adjust the fuel pressure to the desired level. Refer to the instructions provided with the fuel pressure regulator for proper adjustment procedures. Continue to check for leaks.
4. Refer to the instructions provided with the fuel pressure regulator for additional adjustments after starting the vehicle.



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