



**AEROMOTIVE**  
**Part # 14149**  
**Fits Edelbrock 29285 Ford Intake**  
**INSTALLATION INSTRUCTIONS**

**CAUTION:**

Installation of this product requires detailed knowledge of automotive systems and repair procedures. We recommend that this installation be carried out by a qualified automotive technician.

Installation of this product requires handling of gasoline. Ensure you are working 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 proceeding with the installation.

When installing this product, wear eye goggles and other safety apparel as needed to protect yourself from debris and sprayed gasoline.

**WARNING!**

The fuel system is under pressure. Do not open [the fuel system](#) until the pressure has been relieved. Refer to the appropriate vehicle service manual for the procedure and precautions for relieving the fuel system pressure.

The enclosed Aeromotive fuel rails utilize o-ring sealed AN-08 style ports; these ports are **NOT PIPE THREAD** and utilize **NO THREAD SEALANT**. To use the enclosed fuel rails in your vehicle's fuel system you must install the necessary adapter fittings and o-rings, high pressure fuel lines and regulator to adapt your system to the configuration and ports of these fuel rails. Please call for a catalog of the complete line of quality Aeromotive products.

The enclosed Aeromotive fuel rails are intended to be installed on an unmodified intake manifold of the identified application. Aeromotive cannot guarantee the proper fitment on modified intake manifolds and the end user is responsible for verifying proper fitment and assumes all liability.

When installing o-rings it is important to place a small amount of light oil on both the o-ring and the mating surface to ease installation and prevent damaging the o-ring.

The following installation instructions are for a typical installation, for specific year and model installation instructions please refer to your vehicles service manual.

Aeromotive system components are not legal for sale or use on emission controlled motor vehicles.

**This kit contains the following parts:**

2ea 14149 Fuel Rails for Edelbrock 29285 Ford Intake

4ea ¼-20 x ½" Flange Head Mounting Bolts

**The following steps are typical of most installations:**

1. Once the engine has been allowed to cool, disconnect the negative battery cable and relieve fuel system pressure, referring to the appropriate vehicle service manual for the procedure on doing so.
2. Check for any dirt or debris around the fuel injectors. If any is evident, wash it off with some solvent parts cleaner or wipe it off with a clean shop towel.
3. Disconnect the electrical connector at each injector, making note of the location of each.
4. Disconnect both the supply and return fuel lines from the fuel rails. Place clean shop towels around the open fuel lines to catch any gasoline that may drip out and to prevent any dirt from entering the fuel lines.

**Failure to satisfy all safety considerations will result in fire, explosion, injury and/or loss of life to yourself and/or others.**

5. Remove the vacuum line from the fuel pressure regulator.
6. Remove the mounting bolts that attach the fuel rails to the intake manifold.
7. Place clean shop towels around the injectors to catch any gasoline that may be spilled during their removal. Remove the injectors from the manifold by gently pulling upward on the fuel rail / injector assembly. Keep all injectors connected to the fuel rails. If an injector does pull out of the fuel rail, it may spill a large amount of fuel.

**Failure to satisfy all safety considerations will result in fire, explosion, injury and/or loss of life to yourself and/or others.**

8. Carefully remove the fuel injectors from the fuel rails you are replacing.
9. Remove the old o-rings from the fuel injectors, inspect the injectors for any dirt or debris and clean if needed. It is suggested that the old o-rings be replaced, contact your local parts store or dealer to purchase the correct replacement o-rings.
10. Coat the new fuel injector o-rings with a light oil to ease installation.
11. Carefully install the new fuel injector o-rings on the injectors.

**When installing o-rings it is important to place a small amount of light oil on both the o-ring and the mating surface to ease installation and prevent damaging the o-ring.**

12. Install the appropriate ORB-08 port fittings and o-rings on each fuel rail, we recommend Aeromotive p/n 15605 for AN-06 fuel line connections or Aeromotive 15607 for AN-08.
13. Place a thin coat of light oil in the fuel rail fuel injector bores and in the lower intake manifold injector bores to help prevent cutting the o-rings during installation.
14. Carefully place each of the fuel injectors in the corresponding fuel injector bore of the Aeromotive fuel rail.

15. After insuring that the injectors are properly seated in the intake manifold injector bores, reinstall the fuel rail mounting bolts.
16. With the Aeromotive fuel rail properly secured to the intake manifold, Move the fuel injector vertically downward until it bottoms out on the intake manifold, In this downward position, inspect the upper fuel injector o-ring (on the fuel rail side) and insure it is fully covered by the fuel rail injector bore. If any of the o-ring is exposed, loosen the fuel rail bracket screws and adjust the installation height until the o-ring is no longer exposed and retighten the bracket screws. In the situation where the fuel injector has no vertical travel, either the fuel rail brackets can be adjusted or the brackets shimmed until the fuel injector fits freely. Do not pressurize the fuel rail until the proper fuel rail installation height is achieved.
17. Plumb the remainder of the fuel system with high pressure AN fuel lines and fittings. Aeromotive recommends an after-market fuel pressure regulator such as Aeromotive p/n 13101 or 13109 (If you are converting the fuel system to a return style system).

Figure 1-1 depicts a fuel rail with only one fuel line connection, such as is commonly found on OEM factory fuel rails in late model "returnless" fuel systems beginning in 1999. Positioning the regulator after the fuel rail is optimum for performance applications, however an Aeromotive return style regulator may be configured for a "returnless" type of engine/fuel rail assembly. Connect the fuel supply line from the pump into one of the regulator side ports, then exit out of the opposite side port and into the fuel rail. A Quick Connect to AN adapter may be required to connect to the OEM fuel rail, and a return line must be routed from from the regulator bottom/return port back to the top of the tank.

#### Examples of return style fuel system plumbing

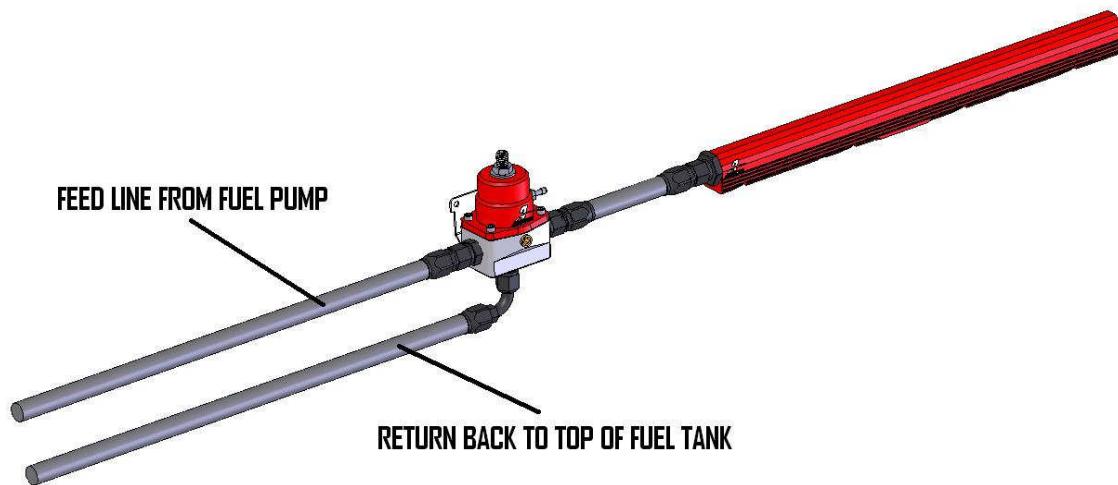


FIGURE 1-1

Figure 1-2 shows the optimum fuel rail plumbing for performanc V8 engines with duel fuel rails, including a Y-block to feed the fuel rails and the return style regulator located in the cross-over on the other end, with return line.

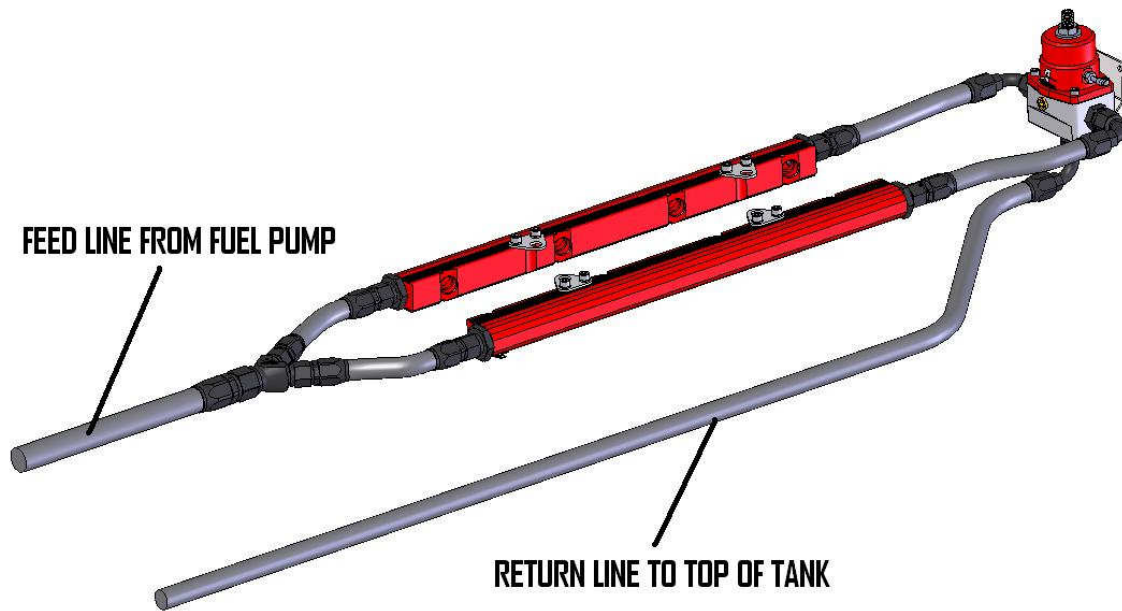


FIGURE 1-2

**Example of “returnless” fuel system plumbing**

Figure 1-3 shows plumbing for a typical “returnless” system where the OEM fuel pump and regulator assembly are located in the tank.



FIGURE 1-3

**Ensure that any spilled gasoline and any gasoline soaked shop towels are cleaned up and removed from the vicinity of the vehicle!**

18. Reconnect the battery and turn the ignition to the ON position **WITHOUT** starting the car. After several seconds, check the fuel pressure. If there is no fuel pressure, turn the ignition key to the OFF position, wait one minute, return the ignition to the ON position, and recheck the fuel pressure. Repeat this ignition OFF and ON procedure until the fuel pressure gauge registers fuel pressure.
- 19. With the fuel pressure gauge registering fuel system pressure, check for fuel leaks from and around all the fuel system components and all fuel lines and connections! If any fuel leaks are found, turn the ignition key to the OFF position, remove any spilled fuel and repair the leak before proceeding!**
20. Once the fuel pressure gauge registers fuel system pressure and there are no fuel leaks, start the engine and adjust the regulator to the desired fuel pressure.
21. Once the desired fuel pressure is achieved, tighten the regulator adjustment jam nut and attach the vacuum line.
22. Turn off the engine and allow it to cool.
23. Test drive the car to insure proper operation and re-check the fuel system for leaks. **If any leaks are found, immediately shutoff the engine and repair the leak(s)!**