INSTALLATION INSTRUCTIONS

Atomic EFI
PN 2921 - High Horsepower Fuel Pump Kit

⚠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.

Parts Included:

1 - Fitting, 6AN-90°
1 - Fitting, 6AN-180°
2 - Clamps, Fuel Line
1 - Clamp (Post Filter)
1 - Banjo Fitting Kit
1 - 18mm x 8AN Inlet Fitting
3 - Self Tapping Screws
1 - Fuel Pump
1 - Filter, Post Pump
1 - 6mm x 1 Lock Nut (Pump +)
1 - 5mm x .8 Lock Nut (Pump -)
2 - Copper Washers (1 spare)
2 - Clamps (Fuel Pump Mount)
15 ft. 3/8" Fuel Line
2 ft. Black Wire (Pump Ground)
14g Ring Lug

NOTICE Fuel pump to fuel tank hardware is not supplied with this kit.

⚠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.

INSTALLING THE FUEL PUMP

The Atomic High Horsepower Fuel Pump is designed to support engines up to 620hp. The pump specifications will support the volume and pressure required when being used with a returnless or return style fuel system.

1. It is recommended to mount the pump close to the gas tank and in a position that is below the lowest point of the tank.
2. Before mounting the pump, it is recommended to install the supplied fittings and the ground wire. See Figure 1.

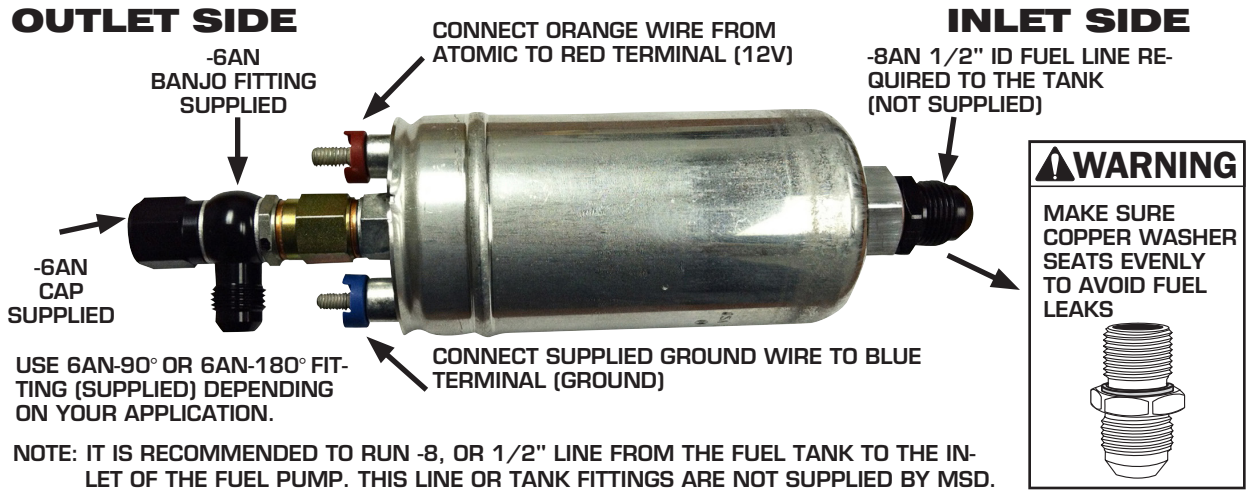

Figure 1 High Horsepower Fuel Pump Assembly.

3. Install the supplied ground wire to the Blue terminal of the pump. Note that the terminals are different sizes. Retaining nuts and are supplied (6mm for positive, 5mm for the negative post). Connect the ground wire to a clean, bare metal ground source.
4. Connect the Orange wire from the Atomic to the + terminal of pump. This terminal uses the 6mm nut.
5. Mount the pump using the supplied clamps and hardware. Also find a suitable location and mount the fuel filter.
6. Install the 3/8" hose to the pump using the supplied push-lock AN fitting. It is recommended to use dish soap to push the hose over the fitting. Make sure the line is pushed all the way to the end of the fitting. Do Not Use a Clamp on the push lock fittings.
   NOTICE Be sure to route all fuel lines clear of any moving suspension or drive train components, and any exhaust components! Protect fuel lines from abrasion and road obstructions or debris.
7. Continue the line to either inlet of the Atomic throttle body using the -6 fittings supplied with the Atomic.

⚠WARNING While performing the following steps, if any fuel leaks are detected, immediately turn the ignition to OFF, remove any spilled fuel and repair the leak(s) before proceeding!

8. Turn the ignition to ON **without starting the engine**, allow the pump to run for several seconds and check the fuel pressure. If there is no pressure, turn the ignition to OFF, wait one minute, then turn the ignition to ON and recheck the pressure. Repeat this ignition OFF and ON procedure until the gauge registers pressure or you detect a fuel leak. If no pressure is registered on the gauge after running the pump for several seconds and you have found no leaks, check all fuel and electrical connections to determine the cause.

Failure to follow the above may result in fuel leakage, bursting of the fuel lines, poor vehicle performance and/or decreased fuel pump life! Improper installation will void all warranties for this product!

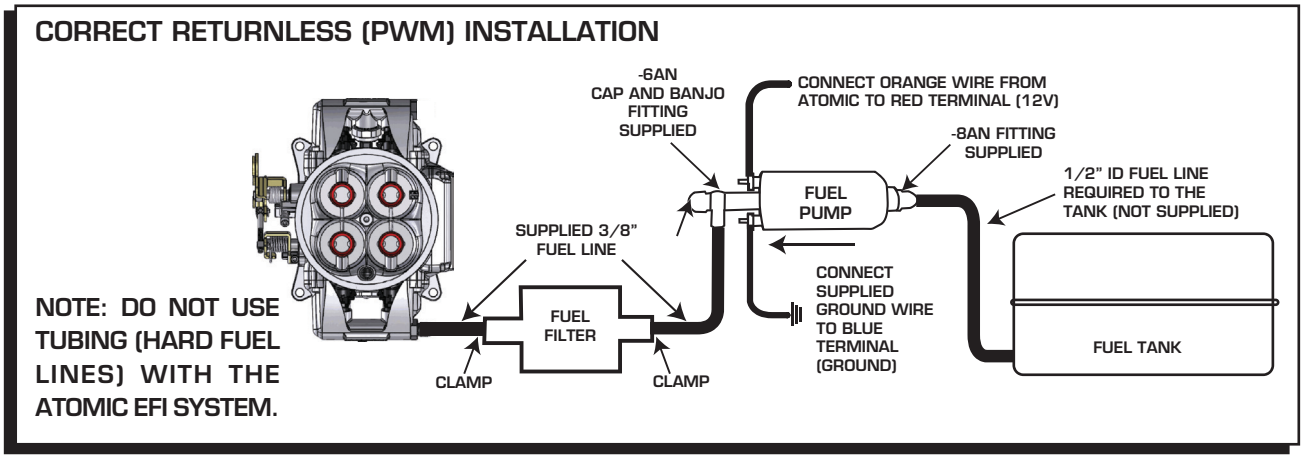

Figure 2 Atomic Returnless Fuel System.

RETURN STYLE FUEL SYSTEM

The most efficient system is to return the fuel from the opposite outlet of the throttle body see Figure 3. The fuel pressure required for a return fuel system is approximately 45-psi. If you get "INJ DC" error code in diagnostics increase pressure and test again. Do not exceed 60-psi.

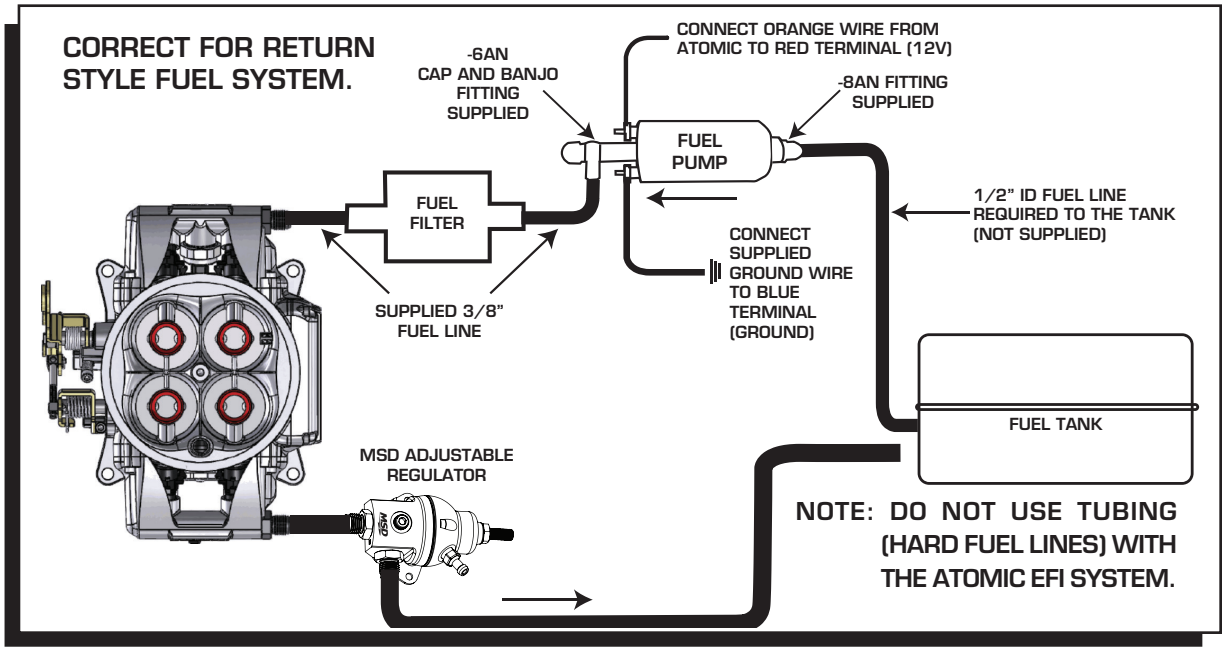

Figure 3

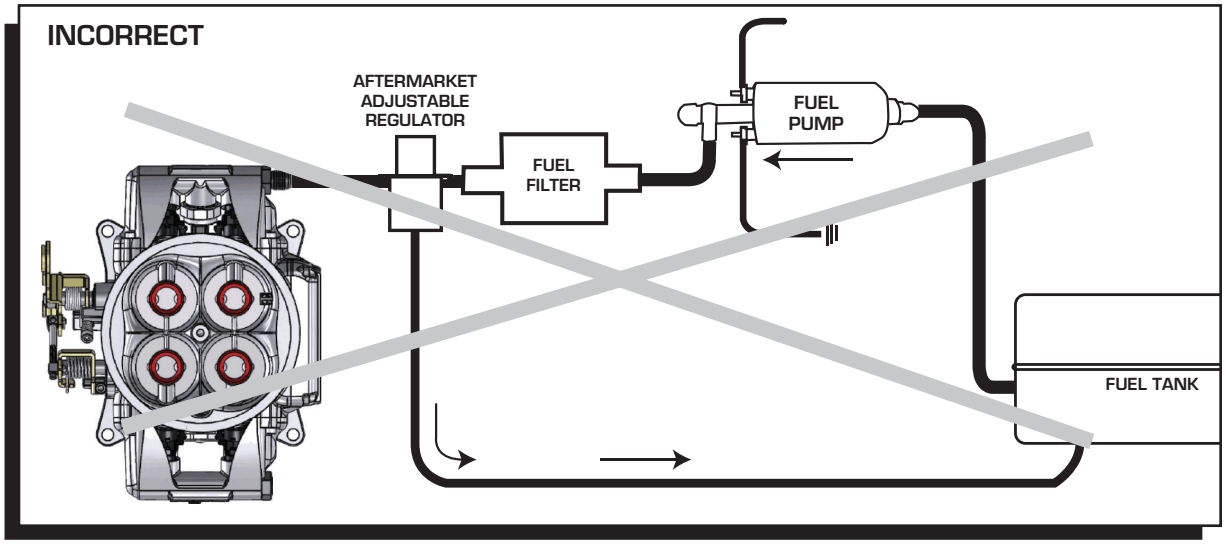

Figure 4