

Installation of Side Feed Injectors

Although the installation of a side feed injector may seem pretty straight forward, there are some procedures that should be followed to ensure trouble-free operation and prevent engine damage. These procedures apply to any side feed injector style such as GB part numbers 842-18122, 115, 116, 118 and 842-18114, 117, 119, 120, 129.

Unlike top fed injectors which only have one o-ring to seal the injector to the fuel rail, a side-feed injector has two. See figure 1. These o-rings seal both the top and the bottom of the injector, preventing fuel from leaking to the atmosphere or into the intake manifold. If the bottom o-ring leaks it can cause enough fuel to enter the cylinder and cause hydro-static engine lock-up, resulting in severe engine damage. Here are some tips to help ensure a successful installation.

Removal

First, remove the fuel rail from the vehicle or at least pull it up out of its position on the intake manifold. This prevents the fuel that is stored in the fuel rail from leaking into the intake manifold when the injector is removed.

Remove the hold-down bracket screws. Use caution as there might be residual fuel pressure present in the fuel rail. It is best to relieve the fuel pressure by removing the fuel pump fuse and letting the engine stall from fuel starvation. Another option is to apply a vacuum to the fuel pressure regulator to bleed the fuel inside the fuel rail back to the tank via the fuel return line.

Remove the injector by pulling up and twisting at the same time.

Ensure the lower o-ring from the injector is removed. It might remain in the fuel bowl rather than on the injector. See figure 2.

Installation

Ensure both the upper and lower o-rings are present on the injector being installed. Lubricate the o-rings with engine oil or suitable lubricant.

Ensure the fuel bowl is clean of any debris or foreign material.

Place the injector into the fuel rail bowl so that the connector is in-line with the fuel rail tube. Apply pressure to insert the fuel injector while at the same time twisting it so the connector is in its correct position.

Ensure the injector is fully seated in the fuel bowl. See figure 3.

Place the rubber spacer onto the top of the injector then install the hold-down bracket.

Insert the screws through the hold-down bracket and tighten the screws evenly, alternating between each screw. See figure 4. Tighten to manufacturer's torque specifications.

Prior to installing the fuel rail back onto the intake manifold, pressurize the rail by turning the key on then off several times. Ensure there is no fuel leakage. Reinstall the fuel rail onto the manifold.

Note: Always consult the vehicle specific service procedures which may contain important additional information.



Figure 1



Figure 2



Figure 3



Figure 4