

DLP/Aeromotive Fuel Pump Install



Pre-installation

1. Take note of fuel level
2. Remove passenger seat, center console panel, and panel above fuel pump
3. Disconnect fuel pump connector
4. Run vehicle until it shuts off to reduce fuel spill
5. Disconnect battery
6. Remove the OEM fuel line from the fuel rail and pump
7. Remove OEM fuel pump
8. Remove fuel level sending unit from the factory fuel pump by pushing in the tab on the top right corner of the sensor and sliding it upwards
9. Install level sensor onto the new L-shaped bracket supplied in the kit

Fuel pump assembly

1. Install the two 90 degree O-ring fittings to “feed” and “return” port on the fuel pump
2. Install the O-ring plug into the “vent” port
3. Crimp on the single pin connectors to the fuel level sending unit wires
4. Install the anti slosh foam into the fuel tank with the square opening facing towards the rear of the vehicle
5. Feed the fuel level sending bracket through the square opening, do not to bend it
6. Slide the fuel pump assembly halfway into the tank and then attach the L-bracket to the fuel pump assembly using the socket cap bolts supplied
7. Connect the two wires for the fuel level sender
8. Slide the fuel pump the rest of the way into the tank
9. The fuel pump will then have to be rotated counterclockwise until the alignment hole lines up with the notch on the tank (as pictured)
10. Secure the fuel pump assembly to the tank using the factory hardware

Regulator setup

1. On the fuel pressure regulator, replace the standard L bracket with the custom bracket supplied
2. Install the regulator bracket to the transmission using the two transmission case bolts (as pictured)
3. Using thread **tape** sealant only, temporarily install the fuel pressure gauge on the regulator port to set proper fuel pressure (liquid thread sealant may cause damage to the regulator)

Installing the fuel lines (use picture for reference)

1. The medium length straight to 90 degree line will install to the left side of the regulator and feed to the return port on the fuel pump
2. The medium length straight to straight line will install on the bottom side of the regulator and run to the feed port on the fuel pump
3. The short straight to 90 degree line will attach to the top port of the regulator and feed to the fuel filter (verify direction of flow arrow is pointing towards the rear of the vehicle)
4. Install the quick connect fitting to the 90 degree end of the long hose
5. Feed the straight end of the long hose from the engine through the rear plastics and attach to the fuel filter
6. Clean and lubricate the male end of the fuel rail and gently connect the quick connect fitting onto the rail (if not cleaned and lubricated properly, the O-ring may rip and cause a fuel leak)

Final assembly

1. Verify all of the fuel line connections are tight
2. Plug in the fuel pump connector
3. Reconnect battery
4. Turn the key to the on position without starting it
5. Check for fuel leaks
6. Verify fuel level on the dash

Setting fuel pressure

1. Loosen lock nut on top of the fuel pressure regulator
2. Start vehicle and let idle
3. Using a 3/16" allen adjust fuel pressure to 50psi
4. Tighten the lock nut and verify correct fuel pressure is steady at idle
5. Bleed off fuel pressure once again by disconnecting the fuel pump connector and letting vehicle die out
6. Remove the fuel pressure gauge from the regulator and reinstall the NPT port using thread sealant tape (The gage needs to be removed in order to fit passenger side plastic cover)
7. Reconnect fuel pump connector
8. Reassemble all body panels