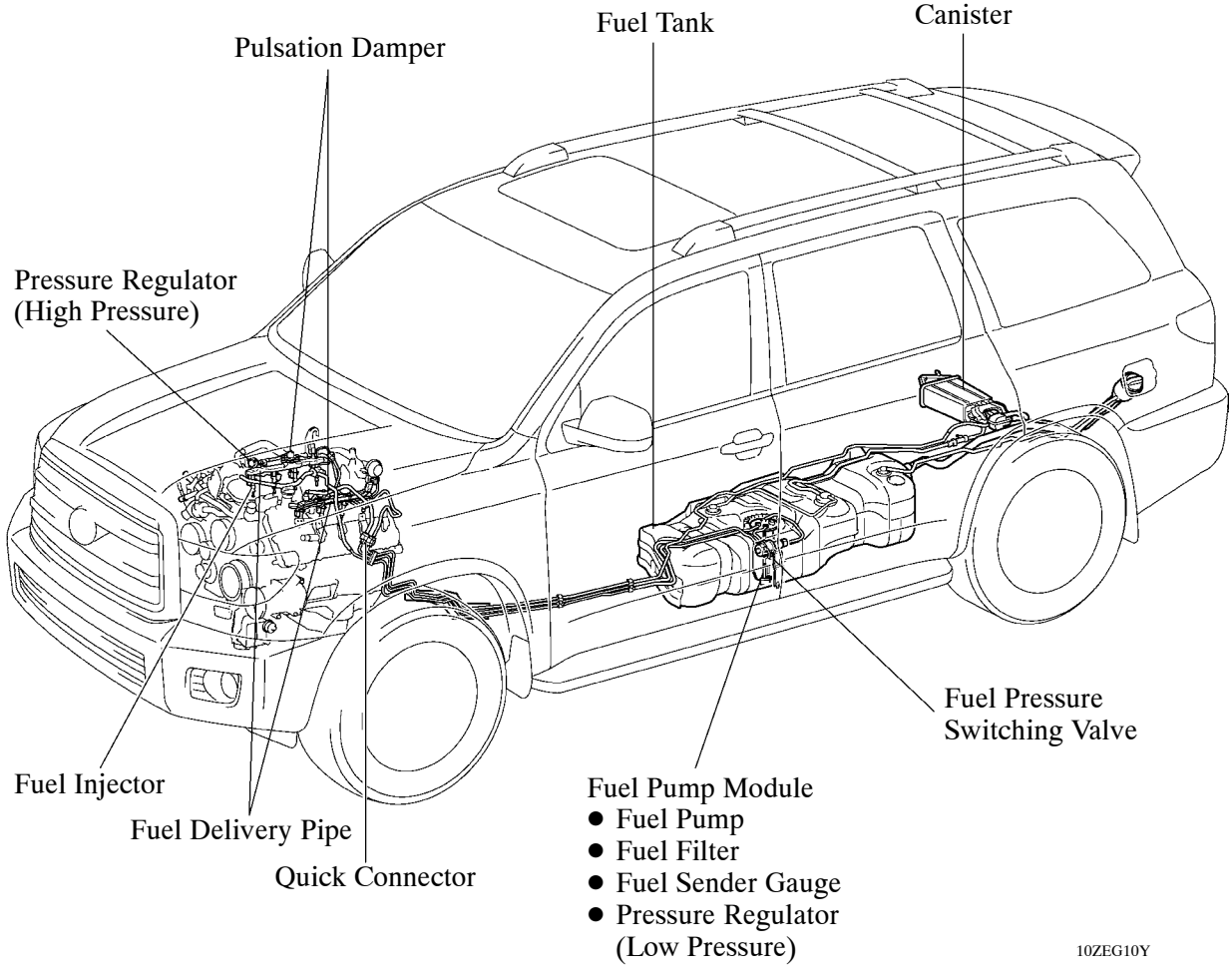
9. Fuel System

General

- A fuel cut control is used to stop the fuel pump when SRS airbags deploy in a frontal or side collision. For details, see page 84.
- Compact 12-hole type fuel injectors are used to improve the atomization of fuel.
- Fuel delivery pipes formed from stamped steel are used.
- Quick connectors are used to connect the fuel lines for ease of serviceability.
- An evaporative emission control system is used. For details, see page 92.

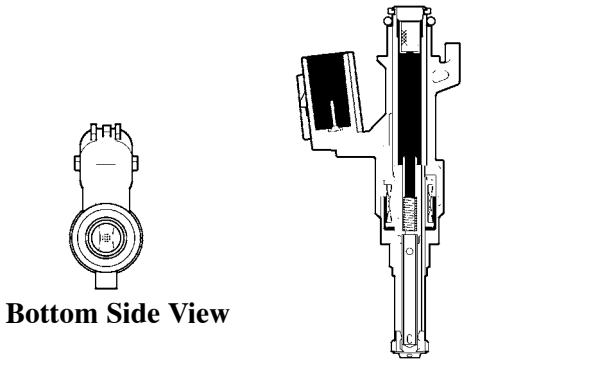
— Change From 3UR-FE Engine —

- A pulsation damper is installed on each of the left and right fuel delivery pipes. To be compatible with alcohol fuel, the fuel passages are surface-treated.
- The fuel pump module is surface-treated to be compatible with alcohol fuel. The discharge volume of the fuel pump is increased to accommodate the increased flow volume associated with the use of the E85 fuel.
- A fuel pressure switching system has been added. This system uses a fuel pressure switching valve and 2 pressure regulators (for high and low pressures). Thus, it controls the fuel injection volume by switching the fuel pressure in accordance with the engine conditions and the ethanol concentration in the fuel. For details, see page 82.



Fuel Injector

A 12-hole fuel injector with optimized fuel flow amount is used to improve the atomization of fuel.



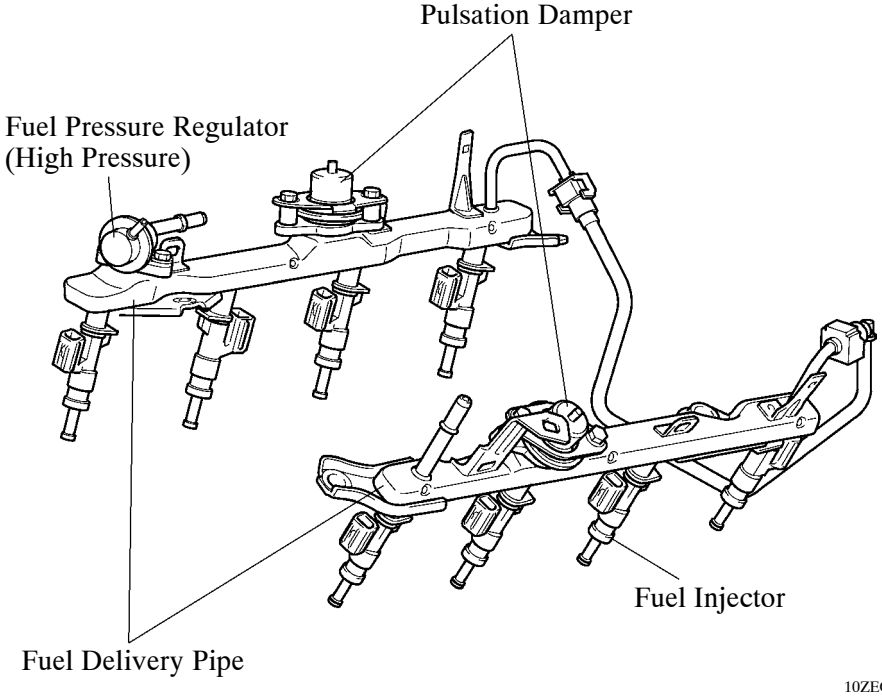
Bottom Side View

Fuel Injector Cross Section

10ZEG11Y

Delivery Pipe

- Fuel delivery pipes formed from stamped steel are used to deliver fuel to the fuel injectors.
- A pulsation damper is installed on each of the left and right fuel delivery pipes. A pressure regulator for high pressure is installed on the right bank fuel delivery pipe.
- The fuel passages of the fuel delivery pipes, pressure regulator, and pulsation dampers are surface-treated to be compatible with alcohol fuel.



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Fuel Pump Module

A compact alcohol-resistant fuel pump module integrating a pressure regulator for low pressure, a fuel sender gauge, and a fuel pump, is used.

