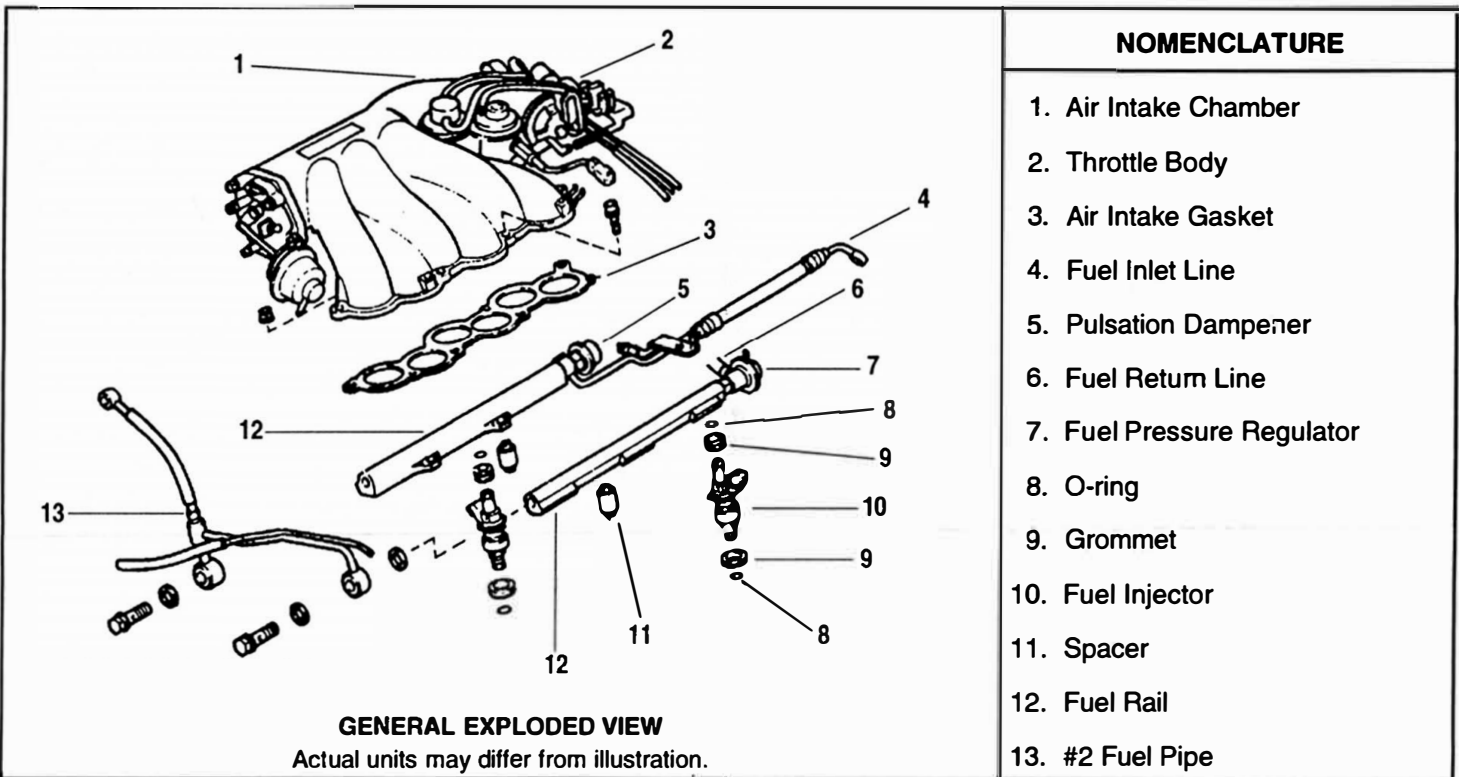


THROTTLE BODY AND INJECTOR SERVICE TOYOTA APPLICATIONS



NOMENCLATURE	
1.	Air Intake Chamber
2.	Throttle Body
3.	Air Intake Gasket
4.	Fuel Inlet Line
5.	Pulsation Dampener
6.	Fuel Return Line
7.	Fuel Pressure Regulator
8.	O-ring
9.	Grommet
10.	Fuel Injector
11.	Spacer
12.	Fuel Rail
13.	#2 Fuel Pipe

GENERAL INSTRUCTIONS

To reduce the risk of fire, it is necessary to relieve the fuel system pressure before disconnecting fuel lines.

1. Disable fuel pump.
2. Start engine.
3. After engine stalls, crank for five to 10 seconds.
4. Turn off ignition.
5. Disconnect negative battery cable.

DISASSEMBLY INSTRUCTIONS

Using the exploded view as a guide, disassemble far enough to permit cleaning and inspection. Follow manufacturer's procedures, if required, to access the fuel rail and throttle body. Note position of injector connectors prior to disconnecting for reassembly.

Remove fuel rail retaining bolts. Remove fuel rail and injectors as an assembly. Twist each injector, then pull gently to separate the injector from the fuel rail. Remove the injector o-rings and fuel injector insulator as required.

Note special instructions.

SPECIAL DISASSEMBLY INSTRUCTIONS

Use care not to drop injectors during service. Replace injector if dropped.

Do not disassemble throttle shaft assembly.

CLEANING INSTRUCTIONS

Cleaning must be done with unit disassembled. Soak parts to soften and remove foreign material in a cold immersion cleaner or other suitable solvent (maximum of 15 minutes). Be sure all passages are cleaned of foreign deposits. Use compressed air to blow out all passages.

Do not soak or use cleaner on electrical or rubber parts such as the idle air control valve or throttle position sensor.

DO NOT immerse or soak throttle body assembly in liquid cleaner as the cleaner may wash away ball bearing grease and damage throttle shaft seals.

REASSEMBLY INSTRUCTIONS

Reassemble in reverse order of disassembly. Pressurize fuel system and check for leaks. Note special reassembly instructions.

SPECIAL REASSEMBLY INSTRUCTIONS

Apply silicone oil to all o-rings to ease installation.

To prevent damage to injector o-ring, insert injector into fuel rail squarely and carefully. Install injectors into fuel rail first, then install them into the intake manifold.

Position injector connectors in the same position as disassembly.

Tighten fuel rail bolts in sequence and torque all bolts to specifications.