

TOYOTA ELECTRIC FUEL PUMPS

Corona
Celica
Pickup

DESCRIPTION

Fuel pump is located inside gas tank and is serviced only as a unit. See Fig. 1. If electric pump becomes defective, it must be replaced.

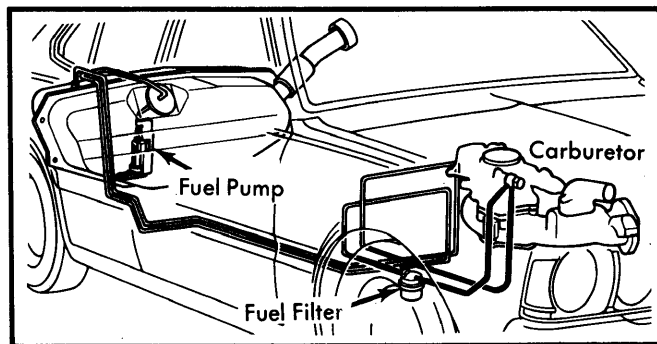


Fig. 1 Toyota Electric Fuel Pump System

Fuel pump assembly is composed of pump, filter, cover, cushion, and relief valve. See Fig. 2. Fuel pump operates when starter is turning and when oil pressure is present.

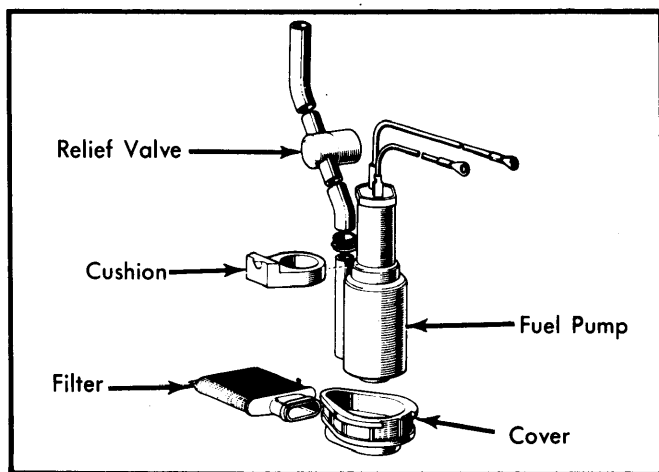


Fig. 2 Exploded View of Electric Fuel Pump

TESTING

CAUTION — Do not operate electric fuel pump unless it is immersed in gasoline. Do not attempt to test pump without resistor.

PUMP OPERATION CHECK

- 1) Check oil pressure switch operation.
- 2) Disconnect connector from oil pressure switch, to operate fuel pump relay. See Fig. 3.
- 3) Turn ignition key to ON position.
- 4) Check pump for steady, smooth operation. Replace pump if abnormal noise is present. If pump does not run, check pump resistor, relay and pump.

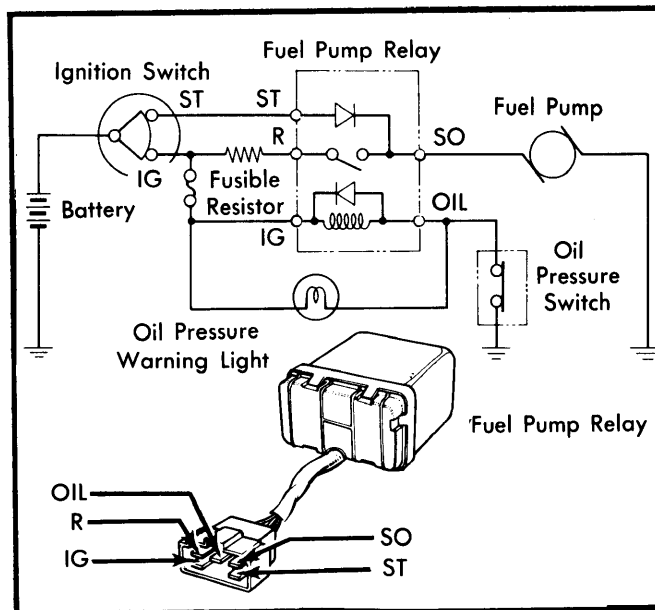


Fig. 3 Fuel Pump Control System Circuit

DISCHARGE CAPACITY TEST

- 1) Connect a short test hose to fuel filter outlet.
- 2) Turn ignition key to ON position. Measure discharge capacity. Pump should discharge 1.3 quarts per minute.
- 3) If below specification, check fuel lines, hoses, and filter for restrictions. Replace fuel pump, if necessary.

DISCHARGE PRESSURE TEST

- 1) Connect pressure gauge to fuel filter outlet.
- 2) Turn ignition key to ON position. Measure discharge pressure at gauge. Reading should be 2.1-4.3 psi (0.15-0.30 kg/cm²). If not within specified limits, check fuel level. Replace pump if necessary.

COMPLETING TESTS

After tests, necessary repairs or replacement of parts, turn off ignition. Reconnect fuel hoses and lead to oil pressure switch.

REMOVAL & INSTALLATION

Removal — Remove fuel pump from tank. On pickup, remove fuel tank. Remove negative battery cable.

Installation — Install fuel pump into tank, using a new gasket. Reconnect electrical leads and fuel lines. Connect negative battery cable and check fuel system for leaks.

FUEL PUMP RESISTOR TEST

Check for continuity between two terminals of resistor connector. If no continuity, replace resistor and check fuel pump. Resistance of 1.4 ohms required.