

SUBARU ELECTRIC FUEL PUMP

DESCRIPTION & OPERATION

The Subaru electric fuel pump is an electromagnetic plunger type pump. The pump is located in the engine compartment. It is mounted on a bracket that is attached to the left front strut tower.

The fuel pump is actuated when the ignition switch is in the "START" or "ON" position. A check valve, located on the fuel pump outlet, prevents fuel from returning to the fuel tank when the engine is turned off.

TESTING

Before performing the following tests, be sure that hose connections are tight and not leaking. Also, check that electrical connections are clean and tight. Confirm that pump makes an operating sound when actuated.

OUTPUT PRESSURE

Disconnect fuel hose from carburetor. Connect a pressure gauge to fuel hose. Measure output pressure while operating fuel pump. Pump output pressure should be 1.3-2.0 psi (.09-.14 kg/cm²). If output pressure is not within the specified range, replace the fuel pump.

SUCTION PRESSURE

Disconnect fuel hose between fuel filter and pump at the filter. Place finger over end of hose. Suction should be felt when fuel pump is actuated. If no suction is felt, replace fuel pump.

REMOVAL & INSTALLATION

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Disconnect wiring harness from fuel pump. Remove fuel pump bracket from left front strut tower. Remove fuel pump from bracket. Disconnect fuel lines from pump. To install, reverse removal procedure.

Fig. 1: Sectional View of Subaru Electric Fuel Pump

