DTC	P0093/78	FUEL SYSTEM LEAK DETECTED – LARGE LEAK

CIRCUIT DESCRIPTION

Refer to DTC P0087/48 on page 05–42.
Refer to DTC P0088/78 on page 05–46.

DTC No.	DTC Detection Condition	Trouble Area
P0093/78	DTC is output when following conditions (a), (b) and (c) are all met and if difference of common rail pressure that fuel pressure sensor detects before and after fuel injection varies greatly from difference of value that ECM calculates before and after fuel injection, ECM determines that there may be fuel leaks. (a) Engine RPM is 1,500 rpm or higher. (b) Fuel pressure sensor is normal (P0190/49, P0191/49, P0192/49, and P0193/49 are not detected) (c) Suction control valve is normal (P0088/78, P0627/78 and P1229/78 are not detected)	• Fuel leak (supply pump to common rail to injector) • Injector

WIRING DIAGRAM

Refer to DTC P0087/48 on page 05–42.
Refer to DTC P0088/78 on page 05–46.

INSPECTION PROCEDURE

HINT:
Read freeze frame data using the hand–held tester. Freeze frame data records the engine conditions when a malfunction is detected. When troubleshooting, freeze frame data can help determine if the vehicle was running or stopped, if the engine was warmed up or not, if the air–fuel ratio was lean or rich, and other data from the time the malfunction occurred.

1	CHECK DTC OUTPUT

(a) Connect the hand–held tester (with 24 V VIM) to the DLC3.
(b) Turn the ignition switch ON and turn the hand–held tester ON.
(c) On the hand–held tester, enter the following menus: DIAGNOSIS / OBD/MOBD / DTC INFO / CURRENT CODES.
(d) Read DTCs.
Result:

Display (DTC output)	Proceed to
P0093/78 only	A
P0093/78 and other DTC are output	B

B → **Go to RELEVANT DTC CHART (See page 05–38)**

A

2	CHECK FUEL LEAKAGE

(a) Visually check the supply pump, injector and fuel line located between the supply pump and common rail for fuel leaks or fuel pressure leaks. Also, perform the same on the fuel line between the common rail and the injector (see pages 11–15 and 11–20).

HINT:
There is possibility that fuel leaks inside the components (supply pump, etc.) have occurred.

NG → **REPAIR OR REPLACE**

OK

REPLACE INJECTOR ASSY (See page 11–20)