DI9S9–01

DTC	49	Fuel Pressure Circuit Malfunction

CIRCUIT DESCRIPTION

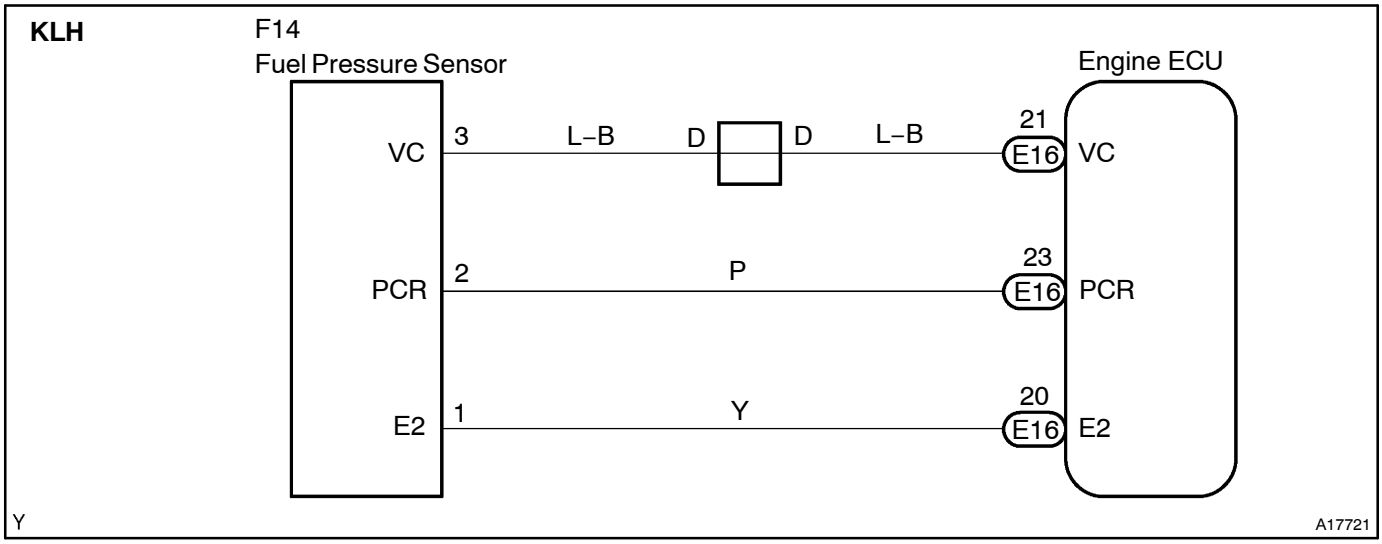
The fuel pressure sensor installed on the common rail detects the fuel pressure and controls the feedback of the pump discharge in order to keep the target pressure (20 – 135 Mpa) set by the engine control computer.

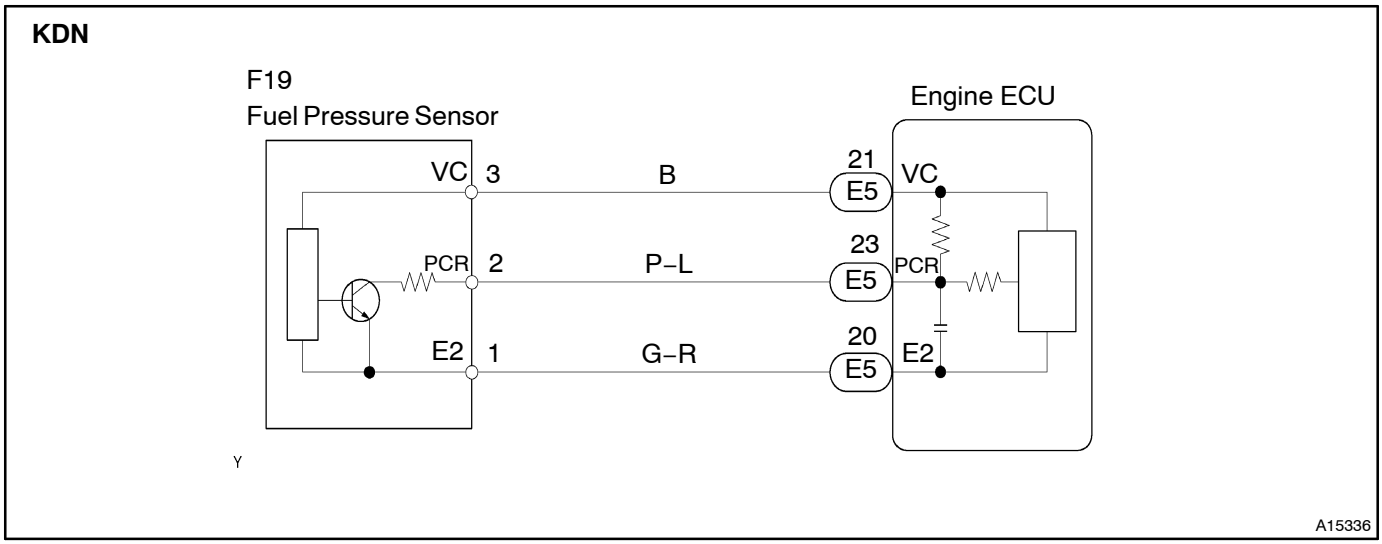
DTC No.	DTC Detecting Condition	Trouble Area
49	Open or short in fuel pressure sensor circuit for common rail	• Open or short in fuel pressure sensor circuit for common rail • Fuel pressure sensor for common rail • Engine ECU

HINT:

After confirming DTC 49, use the hand–held tester to confirm the fuel pressure from the CURRENT DATA.

WIRING DIAGRAM



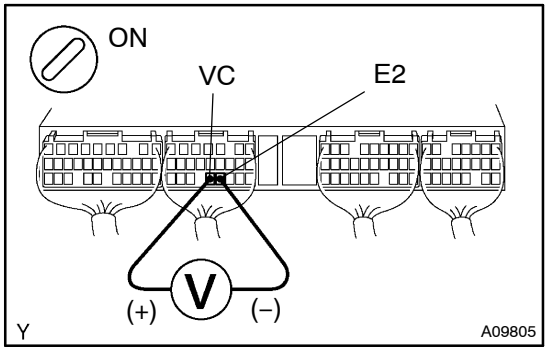


INSPECTION PROCEDURE

HINT:

Read freeze frame data on the hand–held tester. Because freeze frame data records the engine conditions when the malfunction is detected. When troubleshooting it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, etc. at the time of the malfunction.

1	**Check voltage between terminals VC and E2 of ECM connector.**



PREPARATION:

(a) Remove the glove compartment box.

(b) Turn the ignition switch ON.

CHECK:

Measure the voltage between terminals VC and E2 of the ECU connector.

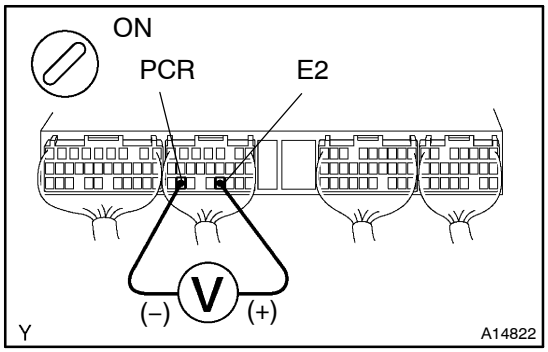
OK:

Voltage: 4.75 – 5.25 V

NG	**Check and replace engine ECU (See page IN–20).**

OK

2	**Check voltage between terminals PCR and E2 of ECU connector.**



PREPARATION:

(a) Remove the glove compartment box.

(b) Start the engine.

CHECK:

Measure the voltage between terminals PCR and E2 of the engine ECU connector.

OK:

Voltage: 1.7 V at 20°C (68°F)

OK	**Check and replace engine ECU (See page IN–20).**

NG

3	**Check for open and short in harness and connector between fuel pressure sensor for common rail and engine ECU (See page IN–20).**

NG → **Repair or replace harness or connector.**

OK

Replace common rail assembly (See page FU–20).