DTC 78 (1) FUEL LINE MALFUNCTION

CIRCUIT DESCRIPTION

DTC 78 (1) is output when there are fuel leaks in the high pressure fuel line and also something is stuck in the fuel supply line. When this DTC is output, the injection volume and pressure are regulated, and consequently the engine output becomes low.

DTC No.	DTC Detection Condition	Trouble area
78 (1)	Following conditions (a), (b), (c) are detected when none of DTC 78(2),(3), 49 and 83 are output, engine speed is 650 rpm or more and engine coolant temp. is 60 °C or more. (a) When DTC 81 is detected, it continues in a certain time that NPC*1 is 5 MPa less than PFIN. (b) When the difference between NPC and PFIN is within 5 MPa at idle, the supply quantity of injection pump is larger than the usual quantity while the engine is idling, and this condition continues in a certain time. (c) When the injector volume is 0 and the difference between NPC and PFIN is within 5 MPa, supply quantity of the injection pump is larger, and this condition continues in a certain time.	• Leak in high pressure fuel line • Stuck on fuel supply line • Injection pump

*1: NPC means the actual pressure of the common rail.
*2: PFIN means the target pressure of the common rail.

INSPECTION PROCEDURE

1 CHECK LEAK ON HIGH PRESSURE FUEL LINE

NG → **REPAIR OR REPLACE FUEL LINE**

OK

2 CHECK STUCK ON FUEL SUPPLY LINE

NG → **REPAIR OR REPLACE FUEL FILTER AND FUEL LINE**

OK

REPAIR OR REPLACE SUPPLY PUMP