DTC	79 (1)	FUEL CONTROL CYLINDER BALANCE SYSTEM MALFUNCTION (CYLINDER1)

DTC	79 (2)	FUEL CONTROL CYLINDER BALANCE SYSTEM MALFUNCTION (CYLINDER2)

DTC	79 (3)	FUEL CONTROL CYLINDER BALANCE SYSTEM MALFUNCTION (CYLINDER3)

DTC	79 (4)	FUEL CONTROL CYLINDER BALANCE SYSTEM MALFUNCTION (CYLINDER 4)

CIRCUIT DESCRIPTION

DTC 79 is output when the injection volumes (fuel compensation volume) of the cylinders are different.

DTC No.	DTC Detection Condition	Trouble Area
79 (1)	Difference in fuel compensation volume (No.1 cylinder)	• Fuel pipe (from common rail to injector) • Injector • Flow damper (on common rail) • ECM
79 (2)	Difference in fuel compensation volume (No.2 cylinder)	
79 (3)	Difference in fuel compensation volume (No.3 cylinder)	
79 (4)	Difference in fuel compensation volume (No.4 cylinder)	

INSPECTION PROCEDURE

1	CHECK OTHER DTC

(a) Are there any other DTC being output ?

YES → PROCEED NEXT STEP AFTER REPAIR OTHER DTC

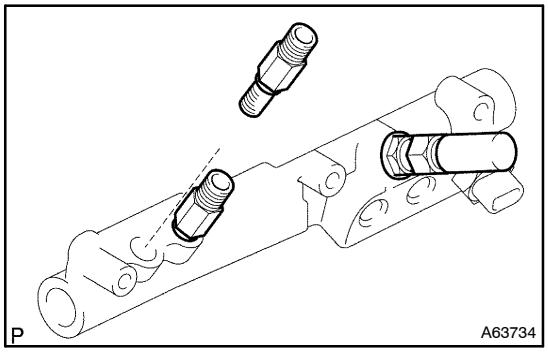
NO

2	CHECK FUEL LEAK (FLOW DAMPER ⇔ INJECTOR)

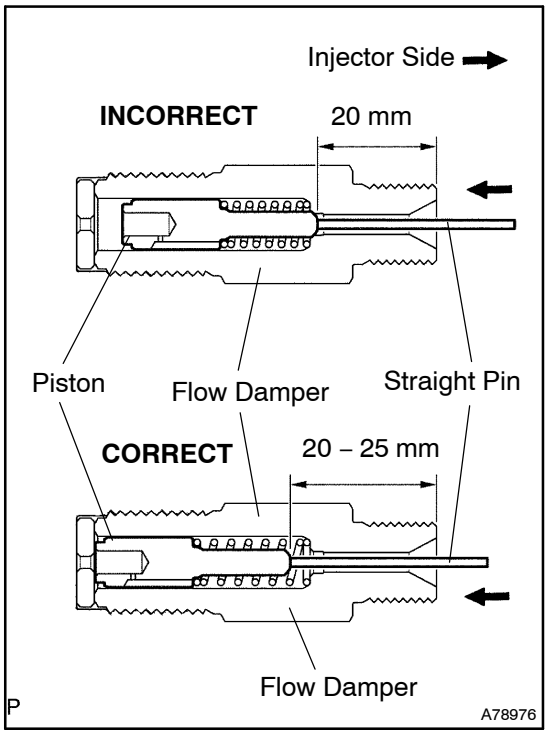
NG → CHECK FUEL LEAK

OK

3	CHECK FLOW DAMPER



(a) Remove the flow damper of the trouble cylinder from the common rail.



(b) Insert a straight pin into a hole on the injector side of the flow damper and check how long it is inserted.
Standard: 20 mm or more (20 – 25 mm)

NOTICE:
Be careful that water and dirt do not get into the inside of the flow damper.

NG → **REPLACE FLOW DAMPER**

OK

4	CHECK INJECTOR ASSY

NG → **REPLACE INJECTOR ASSY**

OK

CHECK AND REPLACE ECM