DTC	P0402/71	EXHAUST GAS RECIRCULATION FLOW EXCESSIVE DETECTED

CIRCUIT DESCRIPTION

Refer to DTC P0401 on page 05–367.

DTC No.	DTC Detection Condition	Trouble Area
P0402/71	When EGR cutoff, lift amount of EGR valve is 2.6 mm (0.1 in.) or more (2 trip detection logic)	• Vacuum hose disconnected or blocked • Short in VSV circuit for EGR • VSV for EGR • EGR valve stuck open • Open or short in EGR valve position sensor circuit • EGR valve position sensor • ECM

WIRING DIAGRAM

Refer to DTC P0401 on page 05–367.

SYSTEM CHECK DRIVING PATTERN

Refer to DTC P0401 on page 05–367.

INSPECTION PROCEDURE

HINT:

Read freeze frame data using hand–held tester, as freeze frame data records the engine conditions when a malfunction is detected. When troubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air–fuel ratio was lean or rich, etc. at the time of the malfunction.

When using Hand–held Tester:

1	CHECK THE CONNECTION OF VACUUM HOSE(AND BLOCKAGE) (See page 14–156)

NG → REPAIR OR REPLACE VACUUM HOSE

OK

2	DO ACTIVE TEST OF VACUUM SWITCHING VALVE NO.1(FOR EGR) (See page 05–367)

OK → Go to step 5

NG

3	INSPECT VACUUM SWITCHING VALVE NO.1(CHECK OPERATION) (See page 12–17)

NG → REPLACE VACUUM SWITCHING VALVE NO.1

OK

4	CHECK HARNESS AND CONNECTOR(VSV FOR EGR – ECM)

NG → REPLACE VACUUM SWITCHING VALVE NO.1

OK

CHECK AND REPLACE ECM

5	INSPECT EGR VALVE ASSY(See page 12–16)

NG → REPAIR OR REPLACE EGR VALVE ASSY

OK

6	INSPECT EGR VALVE POSITION SENSOR (See page 12–16)

NG → REPAIR OR REPLACE EGR VALVE POSITION SENSOR

OK

CHECK AND REPLACE ECM

When not using Hand–held Tester:

1	CHECK THE CONNECTION OF VACUUM HOSE(AND BLOCKAGE)

NG → REPAIR OR REPLACE VACUUM HOSE

OK

2	DO ACTIVE TEST OF VACUUM SWITCHING VALVE NO.1(FOR EGR) (See page 05–367)

OK → Go to step 5

NG

3	INSPECT VACUUM SWITCHING VALVE NO.1(CHECK OPERATION) (See page 12–17)

NG → REPLACE VACUUM SWITCHING VALVE NO.1

OK

4	CHECK HARNESS AND CONNECTOR(VSV FOR EGR – ECM)

NG → REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

CHECK AND REPLACE ECM

5	**INSPECT EGR VALVE ASSY(See page 12–16)**

NG → **REPAIR OR REPLACE EGR VALVE ASSY**

OK

6	**INSPECT EGR VALVE POSITION SENSOR(See page 12–16)**

NG → **REPAIR OR REPLACE EGR VALVE POSITION SENSOR**

OK

CHECK AND REPLACE ECM