

DTC	P0402/71	EXHAUST GAS RECIRCULATION FLOW EXCESSIVE DETECTED
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CIRCUIT DESCRIPTION

Refer to DTC P0401 on [page 05-367](#).

DTC No.	DTC Detection Condition	Trouble Area
P0402/71	When EGR cutoff, if amount of EGR valve is 2.6 mm (0.1 in.) or more (2 trip detection logic)	<ul style="list-style-type: none"> • 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)
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NG

REPAIR OR REPLACE VACUUM HOSE

OK

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

Go to step 5

NG

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

REPLACE VACUUM SWITCHING VALVE NO.1

OK

4	CHECK HARNESS AND CONNECTOR (VSV FOR EGR - ECM)
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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 12-15)

NG

REPAIR OR REPLACE EGR VALVE ASSY

OK

6 INSPECT EGR VALVE POSITION SENSOR (See page 12-15)

NG

REPAIR OR REPLACE EGR VALVE POSITION
SENSOR

OK

CHECK AND REPLACE ECM