DTC	P0443/94	EVAPORATIVE EMISSION CONTROL SYSTEM PURGE CONTROL VALVE CIRCUIT MALFUNCTION

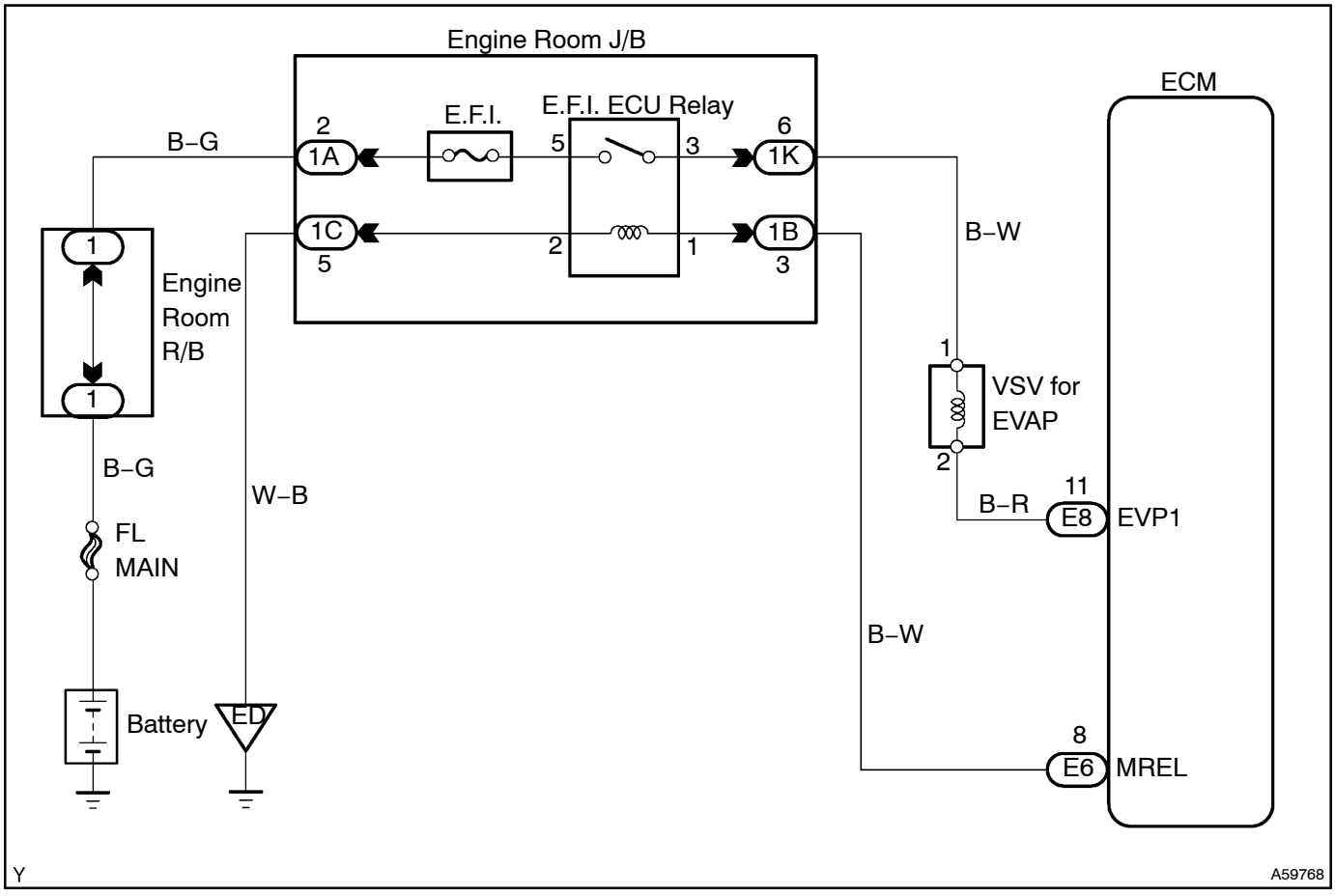
CIRCUIT DESCRIPTION

To reduce HC emissions, evaporated fuel from the fuel tank is routed through the charcoal canister to the intake manifold for combustion in the cylinders.

The ECM changes the duty signal to the VSV for the EVAP so that the intake quantity of HC emissions is appropriate for the driving conditions (engine load, engine speed, vehicle speed, etc.) after the engine is warmed up.

DTC No.	DTC Detecting Condition	Trouble Area
P0443/94	Proper response to ECM command does not occur	• Open of short in VSV circuit for EVAP • VSV for EVAP • ECM

WIRING DIAGRAM

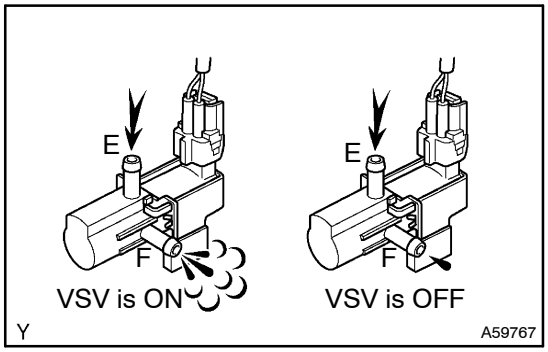


INSPECTION PROCEDURE

HINT:
Read freeze frame data using a hand–held tester. Because freeze frame 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, the air–fuel ratio was lean or rich, etc. at the time of the malfunction.

When using Hand–held Tester:

1 PERFORM ACTIVE TEST BY HAND–HELD TESTER(VSV FOR EVAP)



(a) Select the ACTIVE TEST mode on the hand–held tester.
(b) Disconnect the vacuum hose from the VSV for the EVAP.
(c) Start the engine.
(d) When the VSV for the EVAP is operated by the hand–held tester, apply the disconnected hose to your finger to check the suction.
Result:
VSV is ON: Disconnected hose sucks.
VSV is OFF: Disconnected hose does not suck.

OK → **CHECK FOR INTERMITTENT PROBLEMS**

NG

2 CHECK OPERATION OF VSV(FOR EVAP) (See page 10–8)

NG → **REPLACE VACUUM SWITCHING VALVE ASSY NO.1**

OK

3 CHECK WIRE HARNESS OR CONNECTOR(ECM–E.F.I. ECU RELAY)

NG → **REPAIR OR REPLACE WIRE HARNESS OR CONNECTOR**

OK

CHECK AND REPLACE ECM

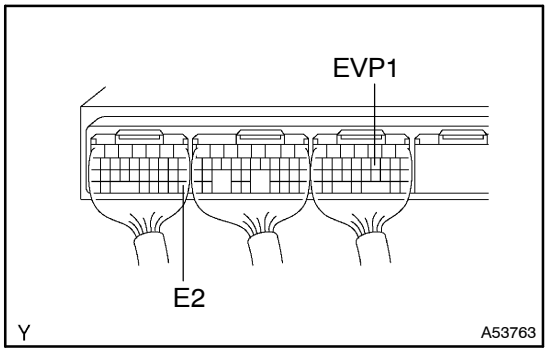
When not using Hand–held Tester:

1	CHECK OPERATION OF VSV(FOR EVAP) (See page 10–8)

NG → REPLACE VACUUM SWITCHING VALVE ASSY NO.1

OK

2	INSPECT ECM(CHECK VOLTAGE)



(a) Turn the ignition switch ON.
(b) Measure the voltage between terminals EVP1 of the ECM connector and E2 of the ECM connector.
Voltage: 9 – 14 V

NG → CHECK WIRE HARNESS OR CONNECTOR

OK

CHECK AND REPLACE ECM