DTC	P0443	EVAPORATIVE EMISSION CONTROL SYSTEM PURGE CONTROL VALVE CIRCUIT MALFUNCTION
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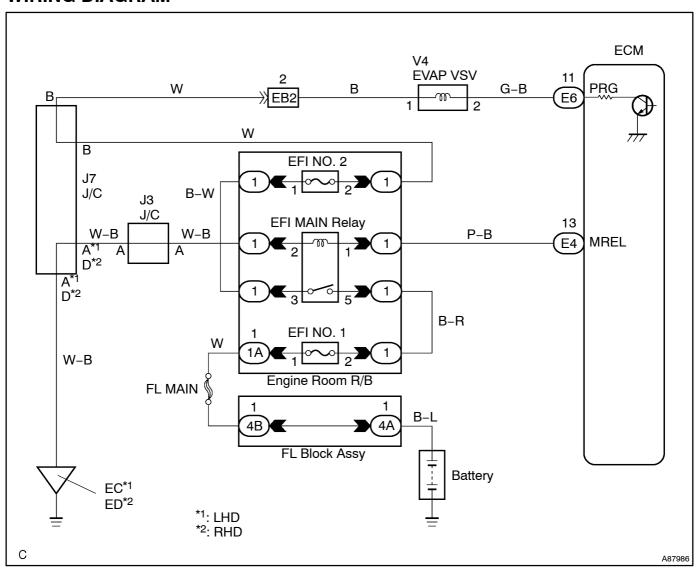
CIRCUIT DESCRIPTION

Evaporative emissions (EVAP) from the fuel tank are routed through the canister to the intake manifold for combustion in the cylinders.

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

DTC No.	DTC Detection Condition	Trouble Area
P0443	No duty signal from ECM for 10 seconds when commanded duty ratio is 5 to 95 % (1 trip detection logic)	Open or short in EVAP VSV

WIRING DIAGRAM

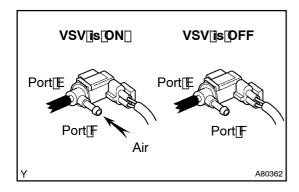


INSPECTION PROCEDURE

HINT:

Read[freeze[frame@data@sing[the[]ntelligent[]ester[]].[Freeze[frame@data@ecords[the@ngine@onditions[when a@malfunction]]s[detected.[When@roubleshooting,freeze[frame@data@an[]help@determine[]fflhe[]wehicle[was running@r[stopped,[]fflhe@ngine[]was[]warmed@p@r[]hot,[]fflhe@air-fuel@atio[]was[]ean@r[]ich,@and@ther@data from[]he[]ime[]he[]malfunction@ccurred.

1 | PERFORM[ACTIVE]TEST[(EVAP[VSV)



- (a) Disconnect the hose from the port from the EVAP VSV.
- (b) Connect he intelligent Tester in he LC3.
- (c) Start the the denotine.
- (d) Select[]he[]tem[]Enter[][Diagnosis[][DBD·MOBD[][Power train[][Engine[]and[]ECT[][Active[]Test[][EVAP[]VSV"[]and switch[]]he[]EVAP[]VSV[]ON/OFF).
- (e) Switch the EVAP VSV and check air flow at the port F. Standard:

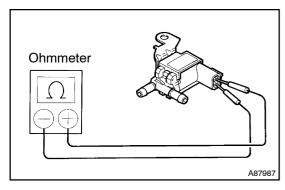
There is air flow at the port F while EVAP VSV is ON. There is no air flow at the port F while EVAP VSV is OFF.

OK)

CHECK FOR INTERMITTENT PROBLEMS (See page 05-11)

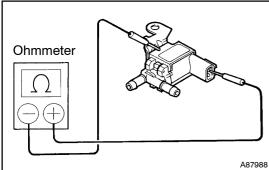
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2 INSPECT EVAP VSV



- (a) Remove the EVAP VSV.
- (b) Measure the resistance between the terminals.

Standard: 30 to 34 Ω at 20°C (68°F)



(c) Measure the resistance between the terminals and the body.

Standard: 1 $M\Omega$ or more

NG REPLACE DUTY VACUUM SWITCHING VALVE (EVAP VSV)

ОК

REPAIR OR REPLACE HARNESS AND CONNECTOR (EVAP VSV - ECM)