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Model Year: 2007	Model: Camry	Doc ID: RM00000221E003X
Title: 2GR-FE ENGINE CONTROL SYSTEM: SFI SYSTEM: P043E: Evaporative Emission System Reference Orifice Clog Up (2007 Camry)		

DTC	P043E	Evaporative Emission System Reference Orifice Clog Up
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DTC	P043F	Evaporative Emission System Reference Orifice High Flow
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DTC	P2401	Evaporative Emission System Leak Detection Pump Control Circuit Low
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DTC	P2402	Evaporative Emission System Leak Detection Pump Control Circuit High
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DTC	P2419	Evaporative Emission System Switching Valve Control Circuit Low
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DTC SUMMARY

DTCS	MONITORING ITEMS	MALFUNCTION DETECTION CONDITIONS	TROUBLE AREAS	DETECTION TIMINGS	DETECTION LOGIC
P043E	0.02 inch orifice clogged	P043E, P043F, P2401,			
P043F	0.02 inch orifice high-flow				
P2401	Vacuum pump stuck OFF				

DTCS	MONITORING ITEMS	MALFUNCTION DETECTION CONDITIONS	TROUBLE AREAS	DETECTION TIMINGS	DETECTION LOGIC
P2402	Vacuum pump stuck ON				
P2419	Vent valve stuck open (vent)				

The 0.02 inch orifice is located inside the pump module.

DESCRIPTION

The circuit description can be found in the EVAP (Evaporative Emission) System [INFO](#) .

INSPECTION PROCEDURE

Refer to the EVAP System [INFO](#) .

MONITOR DESCRIPTION

5 hours^{*1} after the ignition switch is turned off, the electric vacuum pump creates negative pressure (vacuum) in the EVAP (Evaporative Emission) system. The ECM monitors for leaks and actuator malfunctions based on the EVAP pressure.

***1: If the engine coolant temperature is not below 35°C (95°F) 5 hours after the ignition switch is turned off, the monitor check starts 2 hours later. If it is still not below 35°C (95°F) 7 hours after the ignition switch is turned off, the monitor check starts 2.5 hours later.**

SEQUENCE	OPERATIONS	DESCRIPTIONS	DURATION
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