DTC	P0450	Evaporative Emission Control System Pres- sure Sensor Malfunction
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DTC	P0451	Evaporative Emission Control System Pres- sure Sensor Range/Performance
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CIRCUIT DESCRIPTION

The vapor pressure sensor and VSV for vapor pressure sensor are used to detect abnormalities in the evaporative emission control system.

The ECM decides whether there is an abnormality in the evaporative emission control system by the vapor pressure sensor signal.

DTC P0450 or P0451 is recorded by the ECM when the vapor pressure sensor malfunctions.



DTC No.	DTC Detection Condition	Trouble Area
P0450	 10 seconds or more after engine starting condition (a) or (b) continues for 7 seconds or more: (2 trip detection logic) (a) Vapor pressure sensor value < -3.5 kPa (-26 mmHg, -1.0 in.Hg) (b) Vapor pressure sensor value ≥ 1.5 kPa (11 mmHg, 0.4 in.Hg) 	 Open or short in vapor pressure sensor circuit Vapor pressure sensor ECM
P0451	 Vapor pressure sensor output extremely changes under conditions of (a), (b) and (c): (2 trip detection logic) (a) Vehicle speed: 0 km/h (0mph) (b) Engine speed: Idling (c) VSV for vapor pressure sensor is ON 	

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WIRING DIAGRAM

Refer to DTC P0440 on page DI-214.

INSPECTION PROCEDURE

HINT:

- If DTC P0441, P0446, P0450 or P0451 is output after DTC P0440, first troubleshoot DTC P0441, P0446 P0450 or P0451. If no more malfunction is detected, troubleshoot DTC P0440 next.
- Read freeze frame data using TOYOTA hand-held tester or OBD II scan tool, 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.

