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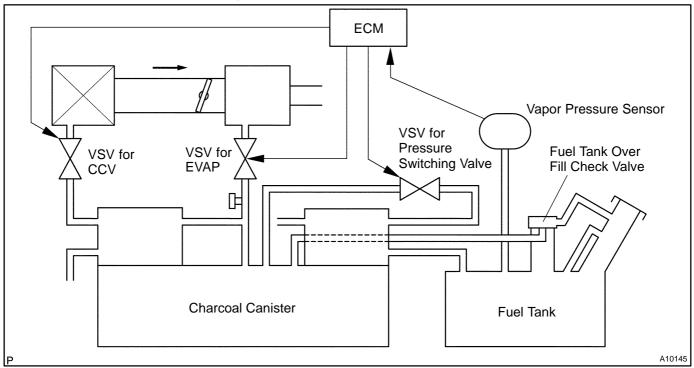
DTC	Evaporative Emission Control System Pres- sure Sensor Range/Performance

CIRCUIT DESCRIPTION

The vapor pressure sensor, VSV for canister closed valve (CCV) and VSV for pressure switching valve 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 based on the vapor pressure sensor signal.

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



DTC No.	DTC Detecting Condition	Trouble Area
P0450	10 sec. or less after engine starting condition vapor pressure sensor fixed value continues for fixed value or more: (2 trip detection logic)	 Open or short in vapor pressure sensor circuit Vapor pressure sensor ECM
P0451	 Vapor pressure sensor output extremely changes under conditions of (a) and (b): (2 trip detection logic) (a) Vehicle speed: 0 km/h (0mph), Engine speed: Idling and VSV for pressure switching valve is OFF (b) Vavor pressure sensor value ≥ opening pressure valve of charcoal canister 	

WIRING DIAGRAM

Refer to DTCs P0441 and P0446 on page DI-118.

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INSPECTION PROCEDURE

HINT:

- If DTC P0441, P0446, P0450 or P0451 is output with DTC P0442, P0456 first trouble shoot DTC P0441, P0446 P0450 or P0451. If no malfunction is detected, troubleshoot DTC P0440 next.
- Read freeze frame data using the hand-held tester or the OBD II scan tool. Because freeze frame
 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 the ENGINE RUN TIME in the freeze frame data is less than 200 seconds, carefully check the vapor pressure sensor.

