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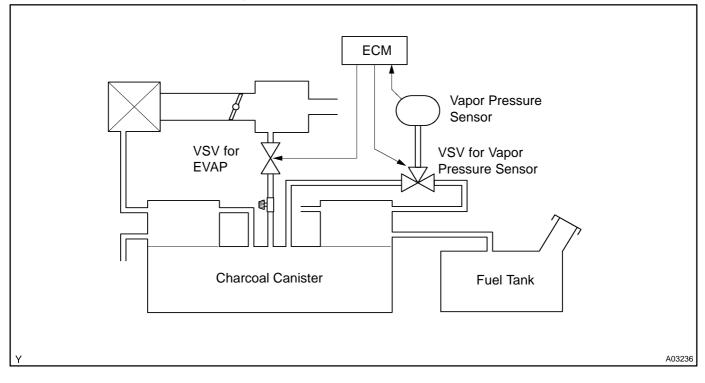
DTC	Evaporative Emission Control System Pres- sure Sensor Range/Performance

## **CIRCUIT DESCRIPTION**

The vapor pressure sensor 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 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 Detection Condition	Trouble Area	
P0450	<ul> <li>Condition (a) or (b) continues (2 trip detection logic)</li> <li>(a) PTNK &lt; 0.5 V or PTNK &gt; 4.9 V (Within 10 sec. after starting engine)</li> <li>(b) PTNK &lt; 0.1 V or PTNK &gt; 4.9 V (After 10 sec. after starting engine)</li> </ul>	• Open or short in vapor pressure sensor circuit	
	Vapor pressure sensor output extremely changes under condi- tions 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	Vapor pressure sensor     ECM	

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## WIRING DIAGRAM

Refer to DTC P0440 on page DI-84.

## **INSPECTION PROCEDURE**

HINT:

- If DTC P0441, P0446, P0450 or P0451 is output after DTC P0440, first trouble shoot DTC P0441, P0446 P0450 or P0451. If no 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.
- When the ENGINE RUN TIME in the freeze frame data is less than 200 seconds, carefully check the VSV for EVAP, charcoal canister and vapor pressure sensor.

