DI-295

DTC	P1345	VVT Sensor/Camshaft Position Sensor Cir-	
		cuit Malfunction (Bank 1)	

DTC	P1350	VVT Sensor/Camshaft Position Sensor Cir- cuit Malfunction (Bank 2)
1		

CIRCUIT DESCRIPTION

VVT sensor (VVL or VVR signal) consist of a signal plate and pickup coil.

The VVL or VVR signal plate has 1 tooth on its outer circumference and is mounted on the intake camshafts. When the camshafts rotate, the protrusion on the signal plate and the air gap on the pickup coil change, causing fluctuations in the magnetic field and generating an electromotive force in the pickup coil.

The actual camshaft angle is detected by the VVT sensor and it provides feedback to the ECM to control the intake valve timing in response to during condition.

DTC No.	DTC Detecting Condition	Trouble Area	
P1345 P1350	No VVT sensor signal to ECM during cranking at 4 sec. or more		
	No VVT sensor signal to ECM with 5 sec. or more engine speed 600 rpm or more	 Open or short in VVT sensor circuit VVT sensor ECM 	
	While the crankshaft rotates twice, VVT sensor signal will be input to ECM 5 times or more		

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

- If DTC P1345 is displayed, check left bank VVT sensor.
- If DTC P1350 is displayed, check right bank VVT sensor.
- Read freeze frame data using LEXUS hand-held tester or OBD II scan tool. Because freeze frame
 records the engine conditions when the 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.





ОК





Date :