DI2UR-03

DTC	P1345/18	VVT Sensor Circuit Malfunction (Bank 1)	
DTC	P1350/18	VVT Sensor Circuit Malfunction (Bank 2)	

CIRCUIT DESCRIPTION

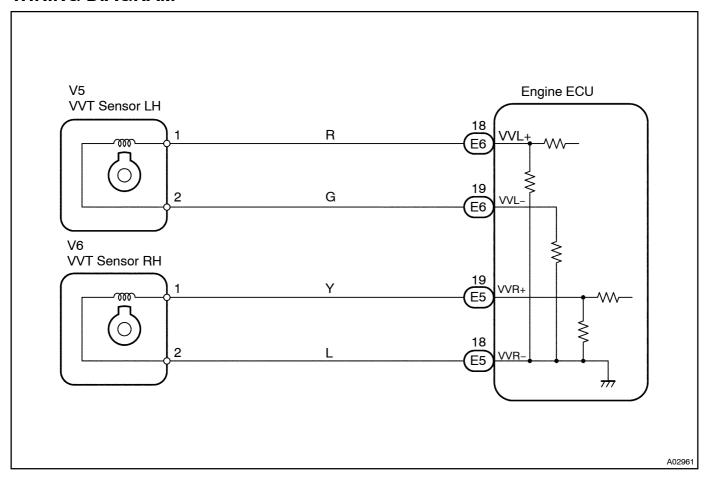
VVT sensor (VVL or VVR signal) consist of a signal plate and pickup coil.

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 engine ECU to control the intake valve timing in response to during condition.

DTC No.	DTC Detecting Condition	Trouble Area
P1345/18 P1350/18	No VVT sensor signal to engine ECU during cranking at 4 sec. or more	Open or short in VVT sensor circuit VVT sensor Engine ECU
	No VVI sensor signal to engine ECU with 5 sec. or more en-	
	While the crankshaft rotates twice, VVT sensor signal will be input to engine ECU 5 times.	

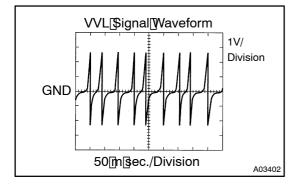
WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

- •□ If[DTC[P1345/18[]s[dysplayed,[check[]eft[]bank[]VVT[\$ensor.
- If DTC P1350/18 is dysplayed, check right bank VVT sensor.
- - 1 Check[resistance[of[VVT[sensor[See[page[Fl-82]].



Reference: [INSPECTION [USING [OSCILLOSCOPE

HINT:

- The correct waveform is as shown.
- The [wavefor in from quency some speed] becomes this her.

NG□

Replace[VVT[\$ensor.

ОК

2□

Check for open and short in harness and connector between engine ECU and VVT sensor (See page N-35).

NG□

Repair or replace harness or connector.

OK

3 | Inspect[sensor[installation.

NG□

Tighten sensor.

OK

Check[and[replace[engine[ECU (See[page[N-35).