

DTC	P1346/18	VVT Sensor/Camshaft Position Sensor Circuit Range/Performance Problem
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CIRCUIT DESCRIPTION

VVT system controls the intake valve timing to proper timing in response to driving condition. ECU controls OCV (Oil Control Valve) to make the intake valve timing properly, and, oil pressure controlled with OCV is supplied to the VVT controller, and then, VVT controller changes relative position between the camshaft and the crankshaft.

DTC No.	DTC Detecting Condition	Trouble Area
P1346/18	Deviation in crankshaft position sensor signal and VVT sensor signal (2 trip detection logic)	<ul style="list-style-type: none"> • Mechanical system (Jumping teeth of timing belt, belt stretched) • Engine ECU

INSPECTION PROCEDURE

HINT:

- LH and RH bank engine ECU detect this DTC code respectively. The inspection procedures are same for both LH and RH bank engine ECU and described in this manual. Even though terminal name and part name on the side of RH bank are described in parenthesis, perform the inspection for only ECU that has detected DTC.
- Read freeze frame data using hand-held tester. 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 warmed up or not, the air-fuel ratio lean or rich, etc. at the time of the malfunction.

1	Check valve timing (See Pub. No. RM677E, page EM-14).
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Repair valve timing.

OK

**Check and replace engine ECU
(See [page IN-20](#)).**