

<b>DTC</b>	<b>P0016</b>	<b>CRANKSHAFT POSITION -CAMSHAFT POSITION CORRELATION (BANK 1 SENSOR A)</b>
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<b>DTC</b>	<b>P0018</b>	<b>CRANKSHAFT POSITION - CAMSHAFT POSITION CORRELATION (BANK 2 SENSOR A)</b>
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## CIRCUIT DESCRIPTION

Refer to DTC P0335 and P0339 on page 05-1 11.

DTC No.	DTC Detection Condition	Trouble Area
P0016	Deviation in crankshaft position sensor signal and VVT sensor 1 signal (2 trip detection logic)	<ul style="list-style-type: none"> <li>• Mechanical system (Jumping teeth of timing chain, chain stretched)</li> <li>• ECM</li> </ul>
P0018	Deviation in crankshaft position sensor signal and VVT sensor 2 signal (2 trip detection logic)	

## WIRING DIAGRAM

Refer to DTC P0335 and P0339 on page 05-1 11.

## INSPECTION PROCEDURE

### HINT:

Read freeze frame data using the hand-held tester or the 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.

<b>1</b>	<b>CHECK VALVE TIMING(CHECK FOR LOOSE AND JUMPING TEETH OF TIMING CHAIN) (See page 14-7 )</b>
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**ADJUST VALVE TIMING (See page 14-7 )  
(REPAIR OR REPLACE TIMING CHAIN)**

**OK**

**CHECK AND REPLACE ECM (See page 01-35 )**