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| <b>DTC</b> | <b>P1346</b> | <b>VVT Sensor/Camshaft Position Sensor Circuit Range/Performance Problem (Bank 1)</b> |
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| <b>DTC</b> | <b>P1351</b> | <b>VVT Sensor/Camshaft Position Sensor Circuit Range/Performance Problem (Bank 2)</b> |
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## CIRCUIT DESCRIPTION

Refer to DTC P1345, P1350 on page [DI-130](#) .

| DTC No. | DTC Detection Condition                                                                                | Trouble Area                                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| P1346   | Deviation in crankshaft position sensor signal and VVT sensor (bank 1) signal (2 trip detection logic) | <ul style="list-style-type: none"> <li>• Mechanical system malfunction (Jumping teeth of timing belt, belt stretched)</li> <li>• ECM</li> </ul> |
| P1351   | Deviation in crankshaft position sensor signal and VVT sensor (bank 2) signal (2 trip detection logic) |                                                                                                                                                 |

## WIRING DIAGRAM

Refer to DTC P335 on page [DI-65](#) .

## INSPECTION PROCEDURE

### HINT:

Read freeze frame data using TOYOTA 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.

|          |                                                                                                                 |
|----------|-----------------------------------------------------------------------------------------------------------------|
| <b>1</b> | <b>Check valve timing (Check for loose and jumping teeth of timing belt) (See page <a href="#">EM-16</a> ).</b> |
|----------|-----------------------------------------------------------------------------------------------------------------|

**NG**

**Adjust valve timing (Repair or replace timing belt).**

**OK**

**Check and replace ECM (See page [IN-31](#) ).**