DTC	P0016/18	CRANKSHAFT POSITION – CAMSHAFT POSITION CORRELATION (BANK 1 SENSOR A)

DTC	P0018/18	CRANKSHAFT POSITION – CAMSHAFT POSITION CORRELATION (BANK 2 SENSOR A)

CIRCUIT DESCRIPTION

Refer to DTC P0335/12, 13 and P0339/13 on page 05–122.

DTC No.	DTC Detection Condition	Trouble Area
P0016/18	Deviation in crankshaft position sensor signal and VVT sensor 1 signal (2 trip detection logic)	• Mechanical system (Jumping teeth of timing chain, chain stretched) • ECM
P0018/18	Deviation in crankshaft position sensor signal and VVT sensor 2 signal (2 trip detection logic)	

WIRING DIAGRAM

Refer to DTC P0335/12, 13 and P0339/13 on page 05–122.

INSPECTION PROCEDURE

Read freeze frame data using the hand–held tester, 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.

1	CHECK VALVE TIMING (CHECK FOR LOOSE AND JUMPING TEETH OF TIMING CHAIN) (See page 14–7)

NG → ADJUST VALVE TIMING (See page 14–7) (REPAIR OR REPLACE TIMING CHAIN)

OK ↓

CHECK AND REPLACE ECM (See page 01–35)