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

CIRCUIT DESCRIPTION

Refer to DTCs P0335 and P0339 on page 05–93.

DTC No.	DTC Detection Condition	Trouble Area
P0016/18	Deviation in crankshaft position sensor signal and camshaft position sensor signal (2 trip detection logic)	• Mechanical system (Jumped tooth of timing chain or chain stretched) • ECM

WIRING DIAGRAM

Refer to DTCs P0335 and P0339 on page 05–93.

INSPECTION PROCEDURE

Read freeze frame data using the intelligent tester II. Freeze frame data record the engine condition when malfunctions are detected. When troubleshooting, freeze frame data can help determine if the vehicle was moving or stationary, if the engine was warmed up or not, if the air–fuel ratio was lean or rich, and other data from the time the malfunction occurred.

1	CHECK VALVE TIMING(CHECK FOR LOOSENESS AND JUMPED TEETH ON TIMING CHAIN) (See page 14–44)

(a) Check for looseness or a jumped tooth of the timing chain.
OK: The matchmarks of the crankshaft pulley and camshaft pulley are aligning.

NG → **ADJUST VALVE TIMING (See page 14–44) (REPAIR OR REPLACE TIMING CHAIN)**

OK

REPLACE ECM (See page 10–12)