

1996 to 2004 MY Camshaft Position Sensor Monitor (P0340, P0341, P01340, P1341)

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MONITOR STRATEGY

Required sensors/Components	Main	Camshaft position sensor
	Sub	Crankshaft position sensor
Frequency of operation	Continuous	
Duration	Within 10 sec.	
MIL operation	2 driving cycles	No camshaft position signal when starter operates
	Immediate	• No camshaft position signal • Camshaft and crankshaft position signal misalignment • Camshaft signal is abnormal
Sequence of operation	None	

TYPICAL ENABLING CONDITIONS

The monitor will run whenever the following DTCs are not present	See page In-39
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TYPICAL MALFUNCTION THRESHOLDS

Detection Criteria	Threshold
Case 1: No camshaft position signal	
Camshaft position signal when starter operates	No signal
Camshaft position signal when engine RPM is 600 (900* ²) rpm or more	No signal
Case 2: Camshaft and crankshaft position signal misalignment	
Camshaft and crankshaft position signal alignment	Misaligned
Case 3: Camshaft signal is abnormal	
Camshaft position signal per 2 revolutions crankshaft	12 or more signals

*2 1NZ-FXE Prius

COMPONENT OPERATING RANGE

Parameter	Standard Value
Camshaft position sensor signal	• Crankshaft position sensor voltage fluctuates when intake camshaft rotates • 3 signals per 2 revolutions crankshaft