

Camry CNG for A/F Sensor Monitor (P1130, P1150)

To return to monitor description, see page [As-12](#).

MONITOR STRATEGY

Required sensors/Components	Main	A/F sensor
	Sub	Rear oxygen sensor, Throttle position sensor, ECT sensor
Frequency of operation	Continuous	
Duration	Within 30 sec.	
MIL operation	2 driving cycles	
Sequence of operation	None	

TYPICAL ENABLING CONDITIONS

Item	Specification	
	Minimum	Maximum
The monitor will run whenever the following DTCs are not present	See page In-39	
Case 1: A/F sensor voltage stuck LEAN/RICH		
Time after engine start	30 sec.	—
A/F sensor status	Activated	
Fuel system status	Closed Loop	
Sub-feedback status	Executing	

TYPICAL MALFUNCTION THRESHOLDS

Engine Family	Detection Criteria	Threshold (Duration)
Case 1: A/F sensor stuck LEAN/RICH		
5S-FNE	A/F sensor voltage when rear oxygen sensor voltage is 0.15 V or more	More than 4.5 V (for 20 sec.)
	A/F sensor voltage	3.3 V (for 30 sec.)

OBD MONITOR DRIVE PATTERNS

See page [In-13](#)

MODE 06 DATA (MONITOR RESULT)

- (a) Checking monitor status (See page [In-43](#))
- (b) Detecting Mode 06 data (See page [In-44](#))