

Oxygen Sensor Scan Tool Diagnosis

Meets NATEF Task: (A8-B-5) Inspect and test sensors, actuators, and circuits using a graphing multimeter (GMM)/digital storage oscilloscope (DSO); perform necessary action. (P-1)

Name	Date	_ Time on Task	
Make/Model/Year	VIN	Evaluation: 4 3 2 1	
1. Connect the scan tool to t	1. Connect the scan tool to the DLC and start the engine.		
2. Operate the engine at a fa 2 minutes to allow time fo warm to operating temper	Operate the engine at a fast idle (2500 RPM) for 2 minutes to allow time for the oxygen sensor to warm to operating temperature.		
3. Observe the oxygen sense to verify closed loop oper	Observe the oxygen sensor activity on the scan tool to verify closed loop operation.		
4. Select "snap shot" mode and hold the engine speed steady and start recording.			
5. Play back snap shot and place a mark beside each range of oxygen sensor voltage for each frame of the snap shot.			
Between 0 and 300 mV	Between 300 and 600 mV	Between 600 and 1000 mV	
(record # of times)	(record # of times)	(record # of times)	
6. Results: A good oxygen sensor and computer system should result in most snap shot values at both ends (0 to 300 and 600 to 1000 mV). If most of the readings are in the middle, the oxygen sensor is not working correctly.			
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7. Based on the test results, what is the necessary action?