



Oxygen Sensor Monitoring – Discovery Series II

Component/ System	Fault Codes	Monitoring Strategy Description	Malfunction Criteria	Threshold Value	Secondary Parameter	Enable Conditions	Time Required	MIL Illumination
Heater				0.598V ••voltage ••1.081V	O2S post catalyst voltage	< 0.102V	10 sec/continuous	
	P0135/55	O2S heater current circuit continuity	calculated resistance voltage	resistance < 2.453 •• <u>or</u> resistance > 10.06 ••	after engine start up transfer gears	> 180 sec high range	10 sec/continuous	
Oxygen Sensor (rear)					O2S heater on transfer gears	> 90 sec high range		two driving cycles
	P0140/60	O2S circuit continuity	voltage	0.399V < voltage < 0.501V			500 sec/ continuous	
	P0138/58	range check (high)	voltage	voltage > 1.081V			5.1 sec/continuous	
	P0137/57	range check (low)	voltage	voltage < 0.501V	engine air flow O2S post catalyst control	> 16.67 g/sec Active	210 sec/ continuous	
	P0136/56	O2S short circuit	voltage	voltage < 0.0399	O2S post catalyst control	Active	200 sec/ continuous	
	P0139/59	oscillation capability check			O2S post catalyst control catalyst temperature (model) engine air flow rear O2S ready for at least rear O2S heater test rear O2S rich & lean flags not set	Active > 300 °C > 13.89 g/sec 30.0 sec completed successfully > 120 sec		
			if rear O2S voltage not •• 0.625V for	enrichment request still present after 25 sec	catalyst temperature (model)	> 300 °C	2.0 sec/continuous	