



Idle Air Control Valve								
Component/ System	Fault Codes	Monitoring Strategy Description	Malfunction Criteria	Threshold value	Secondary Parameter	Enable Conditions	Time Required	MIL Illumination
Idle Air Control Valve opening	P1510	circuit continuity - Open circuit	voltage - drive off	$1/3 * \text{Battery positive} < \text{voltage} < 2/3 * \text{Battery positive}$	engine speed battery voltage	$> 80 \text{ rpm}$ $7.5V < \text{Battery positive} < 17V$	immediately/ continuous	two driving Cycles
	P1513	circuit continuity - short to ground	voltage - drive off	$\text{voltage} < 1/3 * \text{Battery positive}$				
	P1514	circuit continuity - Short to battery positive	voltage - drive on	$\text{voltage} > 1/2 * \text{Battery positive}$				
	P1551	circuit continuity - open circuit	voltage - drive off	$1/3 * \text{Battery positive} < \text{voltage} < 2/3 * \text{Battery positive}$				
closing	P1552	circuit continuity - short to ground	voltage - drive off	$\text{voltage} < 1/3 * \text{Battery positive}$				
	P1553	circuit continuity - short to battery positive	voltage - drive on	$\text{voltage} > 1/2 * \text{Battery positive}$				
	P0505	functional check	actual - desired RPM	$> +180 \text{ rpm}$ $< -100 \text{ rpm}$	vehicle speed ECT IAT altitude adaptation transfer gears engine load	$= 0 \text{ mph}$ $> 80.25^\circ \text{ C}$ $> -9.75^\circ \text{ C}$ > 0.712 high range $< 2.5 \text{ m sec}$	2.0 to 3.0 sec/once per driving cycle	

If the above table does not include details of the following enabling conditions: - IAT, ECT, vehicle speed range, and time after engine start-up then the state of these parameters has no influence upon the execution of the monitor.