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92

93

94

DTC 0113 - IAT High Voltage

SPN 103 P0113

Circuit Description

0.1 IAT Sensor



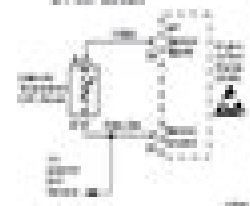
The IAT sensor is a negative temperature coefficient thermistor (non-precision sensitive resistor) located in the intake manifold of the engine. It is used to monitor incoming air and the output, in conjunction with other sensors, is used to determine the injection pulse width and timing to the engine.

The ECM provides a voltage divider circuit so that when the air is cool, the signal reads higher voltage, and lower voltage when the air is warm.

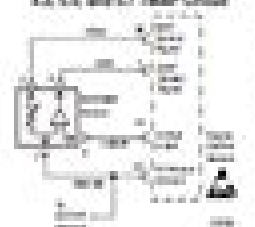
The fault will set if the signal voltage is more than 4.5V while the engine is running. The ECM will also a default value for the IAT sensor in the event of the fault. The diagnostic tool will display the default temperature value (110°F), however the diagnostic tool will always display the actual voltage from the IAT sensor while the code is active. The code will be cleared from the ECM after approximately 100 key cycles provided the code is not set again within the 100 cycles.

Conditions for setting the DTC

0.1 IAT Circuit



4.3, 4.4, and 5.7 TBMP Circuit



Check condition-engine running

Fault condition-IAT sensor voltage greater than 4.5V longer than 1 sec.

MS: On during active fault and for 2 seconds after active fault.

IAT Temperature vs. Resistance

0.1 IAT Sensor			4.3, 4.4 and 5.7 TBMP Sensor		
°F	Ohms	°F	°F	Ohms	°F
140.2	101	-10.0	340	110	150
130.0	101	111	330	105	144
121.2	105	98.7	321	100	138
101.2	200	60.1	300	210	90
101.2	300	60.7	280	300	70
100.7	400	50.0	267	360	50
100.0	500	40.7	240	500	30
100.0	600	30.0	220	600	20
100.0	700	20.0	200	700	10
100.0	800	10.0	180	800	0
100.0	900	0.0	160	900	-10
100.0	1,000	-10.0	140	1,000	-20
100.0	1,200	-20.0	120	1,200	-30
100.0	1,500	-30.0	100	1,500	-40
100.0	1,800	-40.0	80	1,800	-50
100.0	2,000	-50.0	60	2,000	-60
100.0	2,500	-60.0	40	2,500	-70
100.0	3,000	-70.0	20	3,000	-80
100.0	4,000	-80.0	0	4,000	-90

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