DY: Engine Oil Temperature (EOT) Sensor Introduction

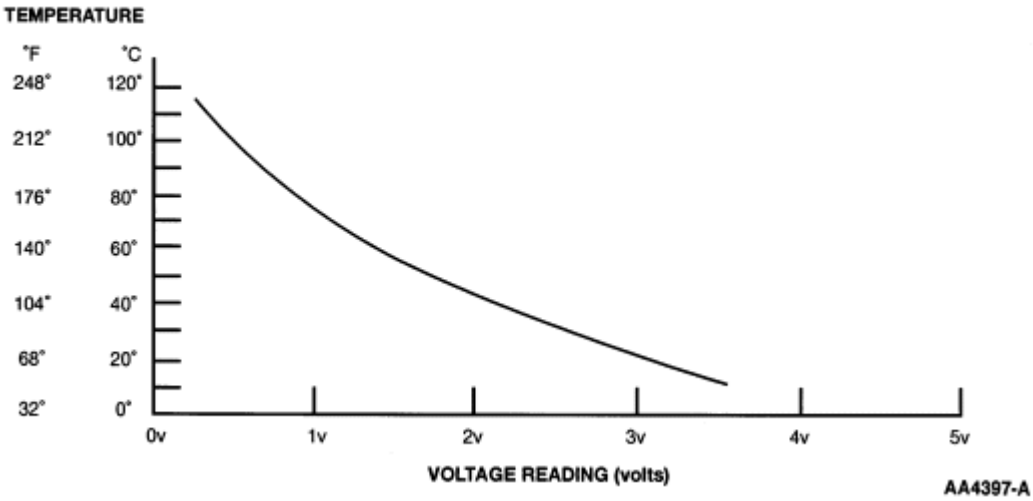
DY: Pinpoint Tests ➡

This pinpoint test is intended to diagnose the following:

- engine oil temperature (EOT) sensor (12A648)
- harness circuits: EOT and SIGRTN
- powertrain control module (PCM) (12A650)

Engine oil temperature must be greater than 10℃ (5 0℉) to pass the KOEO self-test and greater than 66 ℃ (150℉) to pass the KOER self-test.

Voltage values calculated for VREF = 5 volts. These values can vary by 15% due to sensor and VREF variations.



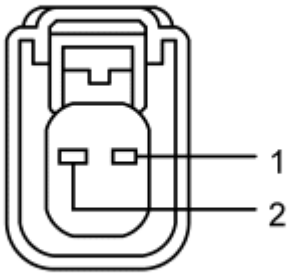
TEMPERATURE SENSOR VOLTAGE AND RESISTANCE SPECIFICATIONS

Temperature		Temperature Sensor Values	
℃	℉	Voltage	Resistance (K ohms)
120	248	0.28	1.18
110	230	0.36	1.55
100	212	0.47	2.07
90	194	0.61	2.80
80	176	0.80	3.84
70	158	1.05	5.37
60	140	1.37	7.70
50	122	1.77	10.97
40	104	2.23	16.15
30	86	2.74	24.27
20	68	3.26	37.30

10	50	3.73	58.75
0	32	4.14	95.85
-10	14	4.45	160.31

Engine Oil Temperature (EOT) Sensor Connector

A



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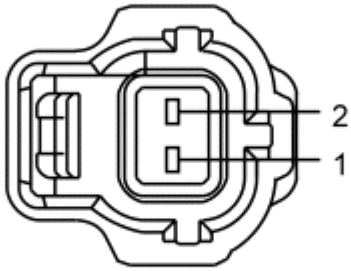

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Vehicle	Connector	Pin	Circuit
Mustang	A	2 1	SIGRTN EOT
All other vehicles	B	2 1	SIGRTN EOT

Powertrain Control Module (PCM) Connector

For PCM connector views or reference values, refer to Section 6 .

Connector	Pin	Circuit
170 Pin	E58	SIGRTN
	B35	VPWR
		VREF
	E57	EOT
	E27	

DY: Pinpoint Tests ➡