

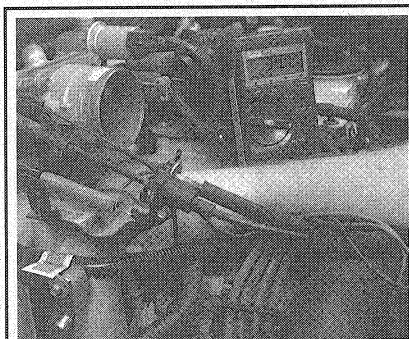
TCCS4P02

Fig. 40 Another method of testing the ECT is to submerge it in cold or hot water and check resistance

Temperature		Engine Coolant/Intake Air Temperature Sensor Values
°F	°C	Resistance (K ohms)
248	120	1.18
230	110	1.55
212	100	2.07
194	90	2.80
176	80	3.84
158	70	5.37
140	60	7.70
122	50	10.97
104	40	16.15
86	30	24.27
68	20	37.30
50	10	58.75

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Fig. 41 ECT resistance-to-temperature specifications



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Fig. 42 Test the ECT resistance across the two sensor terminals

3. With the engine cold and the ignition switch in the **OFF** position, measure and note the ECT sensor resistance.

4. Connect the engine wiring harness to the sensor.

5. Start the engine and allow the engine to reach normal operating temperature.

6. Once the engine has reached normal operating temperature, turn the engine **OFF**.

7. Again, disconnect the engine wiring harness from the ECT sensor.

8. Measure and note the ECT sensor resistance with the engine hot.

9. Compare the cold and hot ECT sensor resistance measurements with the accompanying chart.

10. If readings do not approximate those in the chart, the sensor may be faulty.

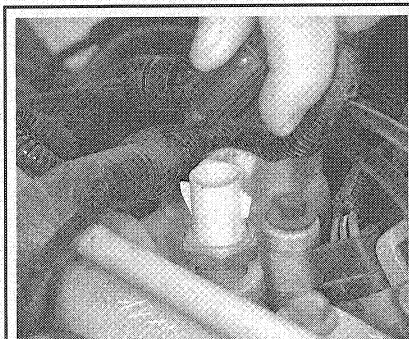
REMOVAL & INSTALLATION

▶ See Figures 43 thru 48

1. Disconnect the negative battery cable.
2. Drain and recycle the engine coolant.

⚠ CAUTION

Never open, service, or drain the radiator or cooling system when hot; serious burns can occur from the steam and hot coolant. In addition, when draining engine coolant, keep in mind that cats and dogs are attracted to ethylene glycol antifreeze and could drink any that is left in an uncovered container or in puddles on the ground. This



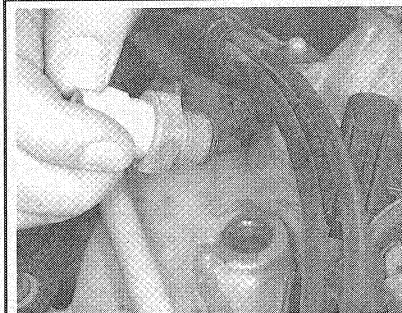
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Fig. 43 Detach the connector for the ECT sensor and . . .



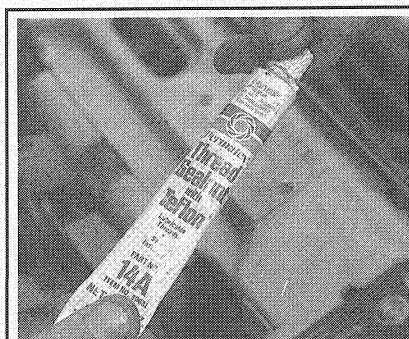
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Fig. 44 . . . and loosen the sensor using a suitable socket or other drive tool



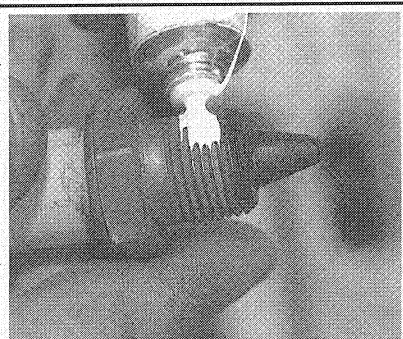
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Fig. 45 Once the sensor is sufficiently loose, remove the sensor from the intake manifold by hand



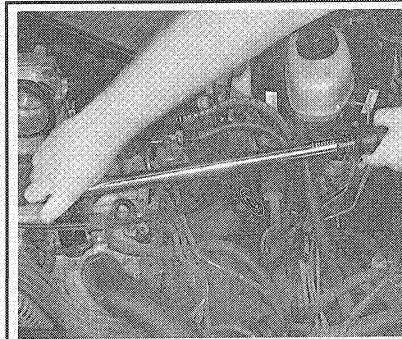
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Fig. 46 Use a quality thread sealant to . . .



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Fig. 47 . . . coat the threads of the ECT sensor before installation



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Fig. 48 The ECT sensor must be tightened with a torque wrench to specifications