

Temperature Switch Test

Purpose

One heat sensitive switch is installed in each cylinder head to monitor engine temperature. Both switches are connected in series with the warning horn. If either switch senses temperature in excess of a predetermined limit, contacts close and cause the warning horn to sound a continuous tone when the key switch is in the ON position.

Note To ensure that the temperature sensing system can alert the operator during an overheating condition, it is very important that the warning horn be tested on a regular basis. See **Warning Horn Test, Section 1**.

Testing

1. Disconnect the bullet connector(s) and remove the temperature switch from the cylinder head.
2. Using a continuity light or ohmmeter, make positive connections to the switch - one lead to the switch lead and one lead to the metal portion of the switch.
3. Place the switch and an accurate industrial thermometer in warm automotive crankcase oil.
4. Slowly increase the oil temperature using an external heat source.

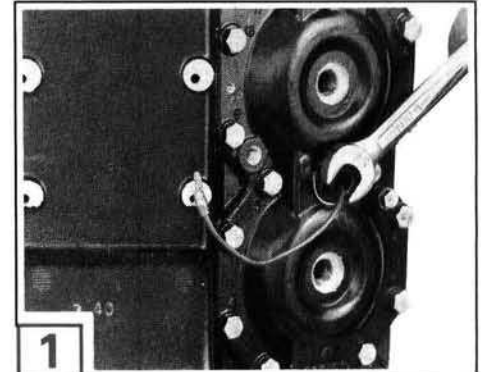
! To avoid possible fire or explosion.

- Use a suitable container for the oil.
- Use an oil that has a flash point above 300° F (150° C), such as *OMC Cobra® 4-Cycle Motor Oil*.
- Do not use open flame as a heat source.

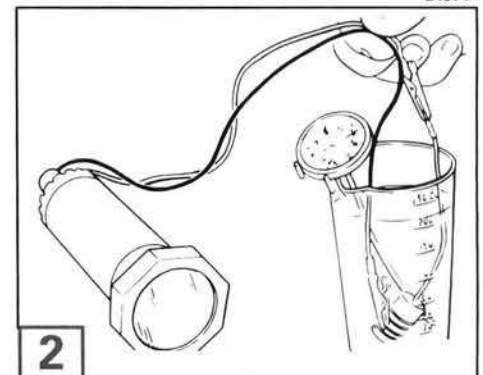
5. The switch must react to the changing temperature as follows:

Temperature Switch		
Wire Color	Switch Closed	Switch Open
Tan/Blue	240 ± 6° F (114 ± 4° C)	207 ± 15° F (110 ± 7° C)
White/Black	105 ± 3° F (41 ± 2° C)	90 ± 3° F (32 ± 2° C)

6. Replace the switch if your test results vary.



24374



824063