

Start the engine.

Allow the engine to run for 30 minutes. Place the climate control function selector in the MAX HEAT position. Feel the heater outlet hose.

**Is the heater outlet hose hot?**

|            |           |
|------------|-----------|
| <b>Yes</b> | GO to B12 |
|------------|-----------|

|           |                                                      |
|-----------|------------------------------------------------------|
| <b>No</b> | INSTALL a new coolant pump. REFER to: Coolant Pump . |
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 **NOTE:** This cooling system uses a cold side thermostat. The coolant in the radiator must reach full operating temperature for the thermostat to remain in an open state.

**B12 CHECK THE THERMOSTAT OPERATION**

Start the engine.

Allow the engine to run for 30 minutes. Place the climate control function selector in the MAX HEAT position. Feel the lower radiator hose.

**Is the lower radiator hose hot?**

|            |                                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------|
| <b>Yes</b> | CHECK the temperature gauge operation. REFER to: Instrumentation, Message Center and Warning Chimes . |
|------------|-------------------------------------------------------------------------------------------------------|

|           |           |
|-----------|-----------|
| <b>No</b> | GO to B13 |
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**B13 VISUALLY INSPECT THE THERMOSTAT**

Carry out the Thermostat Visual Inspection in Component Tests .

**Is the thermostat damaged?**

|            |                                                  |
|------------|--------------------------------------------------|
| <b>Yes</b> | INSTALL a new thermostat. REFER to: Thermostat . |
|------------|--------------------------------------------------|

|           |                                                                                                                              |
|-----------|------------------------------------------------------------------------------------------------------------------------------|
| <b>No</b> | INSTALL a new thermostat. REFER to: Thermostat . If the engine still overheats, INSTALL a new radiator. REFER to: Radiator . |
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**DIAGNOSIS AND TESTING > ENGINE COOLING > PINPOINT TESTS > PINPOINT TEST C : PINPOINT TEST**

**The Engine Does Not Reach Normal Operating Temperature**