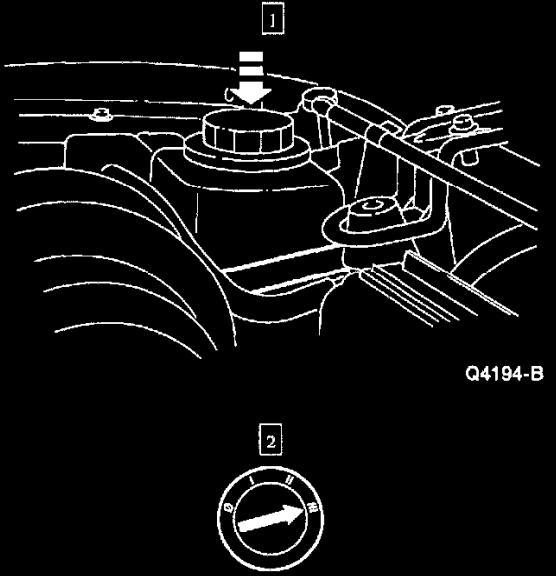


Cooling System: Testing and Inspection Procedures



B: - Engine Overheats

TEST CONDITIONS	TEST DETAILS/RESULTS/ACTIONS
B1 CHECK THE ENGINE COOLANT LEVEL	
NOTE: If the engine is hot, allow the engine to cool before proceeding.	
<div data-bbox="435 331 548 487" style="text-align: center;"> </div>	<div data-bbox="799 331 1393 781" style="text-align: center;"> <p>1 WARNING: Never remove the pressure relief cap under any conditions while the engine is operating. Failure to follow these instructions could result in damage to the cooling system or engine or personal injury. To avoid having scalding hot coolant or steam blow out of the cooling system, use extreme care when removing the pressure relief cap from a hot degas bottle. Wait until the engine has cooled, then wrap a thick cloth around the pressure relief cap and turn it slowly one turn (counterclockwise). Step back while the pressure is released from the cooling system. When certain all the pressure has been released, remove the pressure relief cap (still with a cloth). Allow the engine to cool.</p> </div> <div data-bbox="799 814 1393 1075"> <p>2 Check the engine coolant level at the degas bottle.</p> <ul style="list-style-type: none"> • Is the engine coolant OK? <p>→ Yes GO to B2.</p> <p>→ No REFILL the engine coolant at the degas bottle. GO to Pinpoint Test A.</p> </div>
B2 CHECK THE COOLANT CONDITION	
	<div data-bbox="799 1144 1393 1444" style="text-align: center;"> <p>1 Check the coolant for contaminants such as rust, corrosion, or discoloration.</p> <ul style="list-style-type: none"> • Is the coolant condition OK? <p>→ Yes GO to B3.</p> <p>→ No FLUSH the engine cooling system, TEST the system for normal operation.</p> </div>

B1 - B2

TEST CONDITIONS	TEST DETAILS/RESULTS/ACTIONS
B3 CHECK FOR AN AIRFLOW OBSTRUCTION	<p>1 Inspect the A/C condenser core (and radiator) for obstructions such as leaves or dirt.</p> <ul style="list-style-type: none">• Is there an obstruction? <p>→ Yes REMOVE the obstruction. CLEAN the A/C condenser core and radiator. TEST the system for normal operation.</p> <p>→ No GO to B4.</p>
B4 CHECK THE HEATER CORE OPERATION  <p>Q4194-B</p>	<p>1 Install the pressure relief cap.</p> <p>3 As the engine starts to heat up, feel the inlet and outlet heater water hoses. They should feel approximately the same after three or four minutes.</p> <ul style="list-style-type: none">• Is the heater water hose approximately the same temperature as the inlet heater water hose? <p>→ Yes GO to B5.</p> <p>→ No TURN the engine off. REPAIR or REPLACE heater core. TEST the system for normal operation.</p>

B3 - B4

TEST CONDITIONS	TEST DETAILS/RESULTS/ACTIONS
B5 CHECK THE WATER THERMOSTAT OPERATION	
<p data-bbox="467 184 492 216">1</p> 	<p data-bbox="792 191 816 222">1</p> Start the engine and allow the engine to run for ten minutes. <p data-bbox="792 380 816 411">2</p> Feel the inlet and outlet heater water hoses and the underside of the upper radiator hose
B6 CHECK THE COOLING FAN OPERATION	
<p data-bbox="467 766 492 798">1</p> 	<p data-bbox="792 772 816 804">1</p> Perform the cooling fan component tests.

B5 - B6