

- Coolant hoses or tubes
- Hose clamps
- Thermostat O-ring seal or gasket
- Coolant pump O-ring seal or gasket
- Thermostat housing
- Radiator
- Pressure relief cap
- Coolant pump leaking from weep hole
- Heater core
- Engine gaskets (may leak internally or externally)
- Degas bottle
- Cylinder block core plugs
- Cylinder head core plugs
- Block heater (if equipped)

DIAGNOSIS AND TESTING > ENGINE COOLING > PINPOINT TESTS > PINPOINT TEST A : PINPOINT TEST > PINPOINT TEST A : PINPOINT TEST

 **WARNING:** Always allow the engine to cool before opening the cooling system. Do not unscrew the coolant pressure relief cap when the engine is operating or the cooling system is hot. The cooling system is under pressure; steam and hot liquid can come out forcefully when the cap is loosened slightly. Failure to follow these instructions may result in serious personal injury.

A1 CARRY OUT INSPECTION AND VERIFICATION

Carry out Inspection and Verification .

Are any concerns present?

Yes	REPAIR as needed.
No	GO to A2



NOTE: Allow the engine to cool before checking the engine coolant level.

A2 CHECK THE ENGINE COOLANT LEVEL AND PRESSURE TEST THE ENGINE COOLING SYSTEM

Ignition OFF

Visually inspect the engine coolant level at the degas bottle and adjust as necessary.
Pressure test the engine cooling system. Refer to Component Tests , Cooling System Pressure Test.

Does the engine cooling system leak externally?

Yes	REPAIR or INSTALL new components.
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No	GO to A3
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A3 CHECK THE ENGINE COOLANT FOR AN INTERNAL LEAK

Inspect the engine coolant in the degas bottle for signs of engine oil.

Is engine oil evident in the engine coolant?

Yes	REFER to: appropriate Engine article.
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No	GO to A4
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A4 CHECK THE ENGINE OIL FOR COOLANT

Remove the oil level indicator from the engine.

Is coolant evident in the oil?

Yes	REFER to: appropriate Engine article.
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No	GO to A5
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 **NOTE:** Use UView® Combustion Leak Tester part number UVU560000-R or equivalent.

A5 CHECK THE COOLING SYSTEM FOR COMBUSTION GASES

Using a cooling system combustion gas leak tester, following the instructions supplied with the tester, check the coolant for combustion gases.

Are combustion gases present?

Yes	REFER to: appropriate Engine article.
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