**Meets ASE Task:** (A1-D-3) P-1 Perform cooling system pressure and dye tests to identify leaks; check coolant condition and level; inspect and test radiator, pressure cap, coolant recovery tank, heater core, and galley plugs; determine needed action. (A7-C-1) P-1 Inspect engine cooling and heater systems hoses and pipes; determine needed action.

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

Time on Task:\_\_\_\_\_\_\_\_\_\_\_\_\_

Make/Model/Year:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

VIN:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Evaluation (Enter number from 4, 3, 2, 1) :\_\_\_\_\_\_\_\_\_

**Cooling System Inspection**

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**1.** Check the level of coolant in the coolant recovery tank. It should be between the “full

hot” and “full cold” lines.

**OK  NOT OK**

**2.** After the engine has cooled, remove the radiator cap. The coolant should be at the full level in the radiator.

**CAUTION:** Do not remove the radiator cap if the engine is hot. The coolant will explosively expand when the cap is removed which can cause severe burns to anyone near the vehicle.

**OK  NOT OK**

**3**. Check the condition of the radiator hoses.

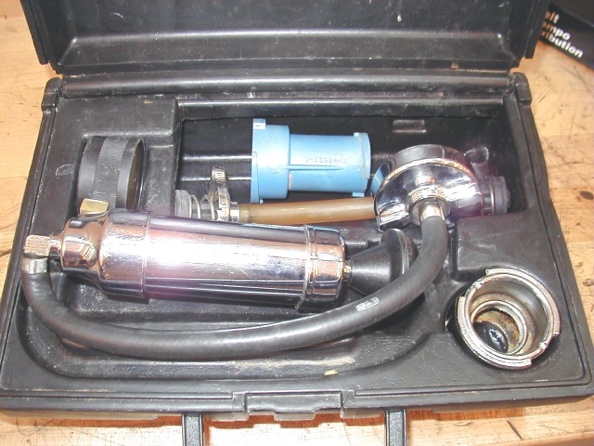
**OK**  **Not** **OK**  (describe condition) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**­­­­­**

**4.** Check the freezing point and boiling point of the coolant.

Freezing point = \_\_\_\_\_\_\_\_\_\_\_ [should be -34° F (-36° C) or lower]

Boiling point = \_\_\_\_\_\_\_\_\_\_\_

 **OK  NOT OK**

**5.** Pressure test the cooling system by installing a

cooling system pressure tester and pump until

the pressure is equal to the pressure cap value.

Pressure should hold if there are no leaks.

**OK  NOT OK**

**6.** Test the radiator cap using the cooling system

pressure tester with an adapter that fits the cap.

The cap should hold its rated pressure.

**OK  NOT OK**

**7.** What is the needed action? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_