Air-Conditioning System Performance Test

Meets ASE Task: (A7-A-3) P-1 Performance test the A/C system and diagnose using principles of refrigeration.

Name _____ **Date** _____ **Time on Task** _____

Make/Model/Year _____ **VIN** _____ **Evaluation: 4 3 2 1**

NOTE: This test procedure is best performed when the temperature is above 70° F (21° C).

☐ **1.** Start the engine, turn the air conditioning to maximum cooling, open the doors and windows, and increase engine speed to about 1500-2000 RPM.

☐ **2.** Turn the blower motor to high speed.

☐ **3.** Measure the temperature of the air at the air-conditioning vent in the center of the dash.

Temperature = _____ [should be 35° - 45° F (2° - 7° C)]

OK ☐ **NOT OK** ☐

☐ **4.** Record high-side and low-side pressures _____ _____

☐ **5.** Stop the engine and visually inspect the condition of the air-conditioning compressor drive belt (accessory drive belt).

OK ☐ **NOT OK** ☐

☐ **6.** Visually check for any signs of leaking refrigerant oil that could indicate a refrigerant leak.

OK ☐ **NOT OK** ☐