

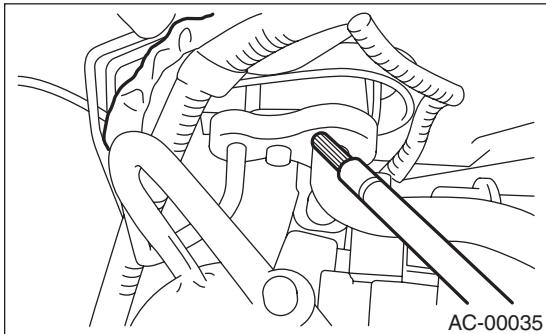
REFRIGERANT LEAK CHECK

HVAC SYSTEM (HEATER, VENTILATOR AND A/C)

5. Refrigerant Leak Check

A: INSPECTION

- 1) Operate the A/C system for approx. 10 minutes, and confirm that the high-side pressure shows at least 690 kPa (7.03 kg/cm², 100 psi). Then stop the engine to start the leak test.
- 2) Starting from the connection between the high-pressure tube and evaporator, check the system for leaks along the high-pressure side through the compressor. The following items must be checked thoroughly.
 - 3) Check the joint and seam between the pressure switch (dual switch) and receiver dryer.
 - 4) Check the connections between the condenser and tubes, and welded joints on the condenser. The leak tester may detect the oil on the condenser fins as a leak.
 - 5) Check the joint between the compressor and hoses.
 - 6) Check the machined area of compressor and other joints on the compressor.
 - 7) Check the thermal limiter (if equipped) on the compressor housing.
 - 8) Check the compressor shaft seal at the area near the center of compressor clutch pulley. Some shaft seals show a slight amount of leakage about 28 g (1.0 oz) per year. This is not a problem.
 - 9) Starting from the connection between the low-pressure tube and evaporator, check the system for leakage along the high-pressure side through the compressor. The following items must be checked thoroughly.
 - Connection between the tube and tube fitting
 - Connection between 2 parts
 - Connection between the tube and nut



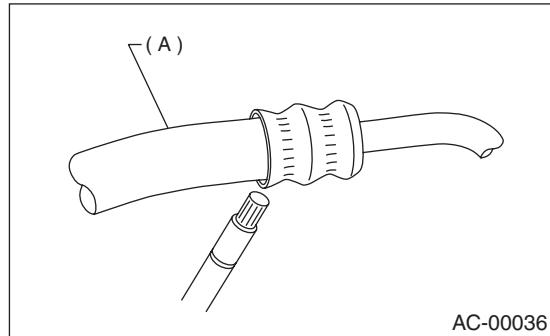
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- 10) Visually check the rubber area of the flexible hose for cracks.

Check the entire length of the flexible hose, especially the connection with the metal hose end.

CAUTION:

Carefully check the external surface of hoses and tubes at approx. 25 mm (0.98 in) per second.



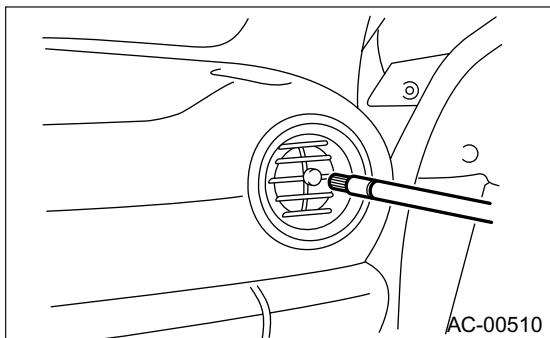
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(A) Flexible hose

- 11) Disconnect the drain hose from the evaporator case, and check the hose end for at least 10 seconds.

After the test is finished, reconnect the drain hose.

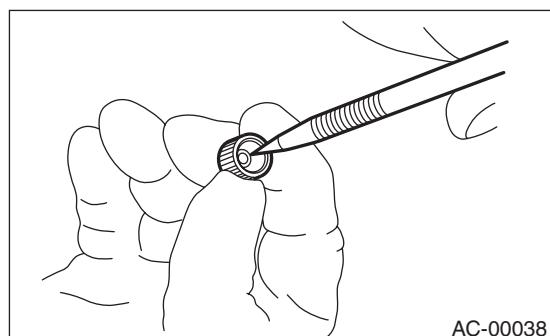
- 12) Turn the ignition key to ON position, and run the blower at high speed for 1 minute. Stop the blower to check the ventilation grille on the instrument panel. While moving the tester closer to the grille, run the blower for 1 or 2 seconds, then stop it. Check the grille at that point for at least 10 seconds.



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- 13) Check the valve in the service port.

- 14) Visually check the rubber seal in the service port cap.



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