
Advanced Technical Information

All

1704

8700

8

Binder - Advanced Technical Information

AC Small Leak Diagnosis

Vehicle Type: **All**

Model Year: **All**

Symptom: No cold air from the A/C system.

Diagnosis: Normal diagnosis reveals very little or no refrigerant in the refrigerant circuit. No leak can be found.

Information: Very small leaks may not be found on a normal inspection. Extra effort to locate these leaks is required.

Procedure: After determining that a leak cannot be found proceed as follows:

- Add 1 ounce of oil with dye to the system
- Evacuate the system
- Recharge the system
- Place a new, large, plastic garbage bag over each front radiator, covering it completely
- Run the A/C system while watching the high side pressure
 - It will be necessary to run up the engine speed to about 2,000 rpm
- When the high side pressure reaches 400 psi:
 - Reduce engine speed to idle
 - Monitor high side pressure
 - If the pressure drops, add enough throttle to hold the pressure at 390-400 psi for 3 minutes.
 - If it continues to rise, pull away a trash bag enough to keep the high side pressure at 390-400 psi for 3 minutes.
- After 3 minutes, remove the trash bags from in front of the radiators
- Let the engine idle and the high side temperature resume normal levels around 200 psi
- Shut off the engine (as long as engine coolant temp is normal)
- Inspect for leaks
- After the leak is identified, proceed with normal repair.
- The Warranty Labor operations are given in the chart below.
 - "A" time will need to be claimed for the time to put the trash bags over the radiator and bring the pressure up (Approximately 5-10 minutes)

Procedure (Cont'd)

- **It is important to document that high pressure testing is necessary because the system had very little, or no, refrigerant and a leak was not found through normal means.**

Scope of Labor:

Labour operation	TU	TU Calc.	TU Final	TU +/-	Sub-Task	CC	WK	Paint
87031760 Refrigerant drained and filled	83	83	83		-	2	9	0
87010106 Air conditioning checked	90	90	90		-	2	9	0
03350050 On board diagnostic .	14	13	13			2	9	0
03350053 On board diagnostic .	18	6	6			2	9	0
87010100 Air conditioning checked	58	58	58		-	2	9	0

Dr. Ing. h.c. F. Porsche AG is the owner of numerous trademarks, both registered and unregistered, including without limitation the Porsche Crest®, Porsche®, Boxster®, Carrera®, Cayenne®, Cayman®, Macan®, Panamera®, Speedster®, Spyder®, Tiptronic®, VarioCam®, PCM®, PDK®, 911®, RS®, 4S®, 718®, 918 Spyder®, FOUR UNCOMPROMISED®, and the model numbers and distinctive shapes of the Porsche automobiles such as, the federally registered 911 and Boxster automobiles. The third party trademarks contained herein are the properties of their respective owners. Porsche Cars North America, Inc. believes the specifications to be correct at the time of printing. However, specifications, standard equipment and options are subject to change without notice. Some options may be unavailable when a car is built. Some vehicles may be shown with non-U.S. equipment. Please ask your authorized Porsche dealer for advice concerning the current availability of options and verify the optional equipment that you ordered. Porsche recommends seat belt usage and observance of traffic laws at all times.