

Faulty performance of A/C system

As we have mentioned before, correct pressure gauges reading may show particular problem or associate to a possible problems.

Note: (F) fixed displacement compressor, (V) variable displacement compressor

Pressure Gauges Reading

Low pressure



Normal

High pressure



Normal

Probable Causes

Pressure readings are normal, A/C system is not cooling.

- Warm air infiltrated into the evaporating unit or passenger compartment.
- Warm water infiltrated in the heater.
- Ice on evaporator core.

Pressure Gauges Reading

Low pressure



Normal or Low

High pressure



Low

Probable Causes

- Normal situation if ambient temperature is very low.
- Too little refrigerant quantity, 70-75% less. check for leaks.
- (V) Expansion valve stuck partially closed or blocked
- (V) Clogging in the H.P. or L.P. branch between filter and evaporator.
- Blockage in the H.P. branch between compressor and condenser-filter hose, but before the H.P. reading point.

Pressure Gauges Reading

Low pressure



High or Normal

High pressure



High

Probable Causes

- Normal situation if ambient temperature is very high.
- Excess refrigerant charge, 30-5% more.
- Condenser overheated.
- Air present in the A/C system.
- (V) Compressor displacement regulator valve defective.
- Blockage in the H.P. branch between compressor and condenser filter hose, but after the H.P. reading point.

Guide Air Conditioning Gauges Automotive

Richard Bailey



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Automotive Air-Conditioning Refrigerant Service Guide Philip G Gott,1996-07-01 Packed with information on the servicing and retrofitting of air conditioning refrigerant systems so that shops and technicians can meet federal regulations satisfy customers and prevent damage to the environment The second edition of the Automotive Air Conditioning Refrigerant Service Guide was written to provide the latest information to automotive air conditioning service professionals in order to help them comply with federal certification requirements and prevent damage to the environment With an emphasis on proper recovery and recycling techniques for both R 12 and R 134a as well as the proper retrofitting of R 12 systems to R 134a the book will serve as a valuable instructional tool and resource for technicians Chapters cover General Safety and Service Precautions Refrigerant and System Properties Equipment for the Extraction only of Refrigerant and Equipment for the Recycling of Refrigerant Service Procedure for the Containment of Automotive Air Conditioning Refrigerants Retrofitting CFC 12 R 12 Mobile Air Conditioning Systems to HFC 134a R 134a *Chilton's 1973 Auto Air Conditioning Manual* Chilton Book Company,1973 *Automotive Manual for Techs: Comprehensive Repair Guide* Pasquale De Marco,2025-04-16

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