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Troubleshoot Air Conditioning

by [Larry Carley](#) copyright 2020 AA1Car.com

A/C COOLING PROBLEM?

The most likely cause of an automotive air conditioner cooling problem is no refrigerant in the system. If the refrigerant has escaped past a leaky compressor or O-ring seal, leaked out of a pinhole in the evaporator or condenser, or seeped out through a leaky hose, the leak needs to be identified and repaired before the system is recharged.

On many systems, the compressor will not turn on if the refrigerant is low because the "low pressure safety switch" prevents the compressor clutch from engaging if system pressure is low. This protects the compressor from possible damage caused by a lack of lubrication.

One of the first things you should check, therefore, is compressor engagement. If the compressors magnetic clutch is not engaging when the A/C is turned on, the problem may be a blown fuse or a wiring problem. If the fuse is blown, replacing it may restore cooling temporarily. But the underlying reason for the fuse blowing in the first place needs to be identified and corrected to prevent the same thing from happening again.

If the magnetic clutch is receiving voltage but is not engaging the compressor, the clutch is defective and needs to be replaced. If there is any evidence of leakage around the compressor shaft seal, the seal should also be replaced.

If the clutch works but fails to turn the compressor (the belt may squeal in protest), the compressor has seized and needs to be replaced.

Cooling Problems with Variable Displacement Compressors

On some late model vehicles, the A/C compressor does not have a clutch to cycle it on and off. The compressor runs all the time when the engine is running, and it uses **Variable Displacement** to increase or decrease the volume of refrigerant it pumps through the system.

With this type of setup, the climate control module or PCM monitors the temperature inside the vehicle and changes the displacement of the compressor as needed to

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Automotive Air Conditioning Troubleshooting:

How to Repair Automotive Air-Conditioning and Heating Systems Jerry Clemons,2019-10-15 Technical instructor and HVAC expert Jerry Clemons completely covers both air conditioning as well as heating systems so you can save money repairing your own vehicle Covered is a history of HVAC systems airflow throughout the system the principles of refrigerant diagnosis of common faults in older systems testing procedures and finally repair and in the case of air conditioning recharging your system Also included is proper evacuation and disposal of any residual refrigerant in the system Components such as compressors condensers evaporators and heater cores pressure switches and climate control electrics and switches are also covered Finally for people with older cars converting from the no longer available R 12 to R134a is detailed Automotive climate controls are a complex system and are difficult to repair without proper instruction Whether you are trying to get your old classic back to its original form or are just looking to save on expensive repairs author Jerry Clemons and this book provide the knowledge you will need to get your car back on the road and cruising in comfort *Automotive Air Conditioning Handbook* John E. Traister,1978 A complete guide to automotive air conditioner installation service and repair *Chilton's Auto Air Conditioning & Wiring Diagram Manual* Chilton Book Company. Automotive Book Department,1971 *Chilton's Automobile Repair Manual* ,1967 *How To Fix The AC In Your Car: Cheats, Hacks, Hints, Tips, And Tricks Guide* Trevor Clinger,2025-05-27 Discover the ultimate DIY guide for car AC repair with How To Fix The AC In Your Car Cheats Hacks Hints Tips And Tricks Guide Packed with easy to follow instructions and expert advice this book helps you troubleshoot repair and maintain your car s air conditioning system without the need for costly professional help From common issues like low refrigerant to complex compressor problems learn the essential hacks to keep your car s AC cool and efficient all year long Perfect for beginners and seasoned car owners alike

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Automotive Electricity Boyce H. Dwiggins,Al W. Fritz,1981 **Millwrights and**

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