

# Troubleshooting Basic Air Conditioning Problems

Problem	Cause	Solution
There's little or no air coming from the vents (and you're sure it's on)	<ul style="list-style-type: none"> <li>The A/C fuse is blown</li> <li>Broken or loose wires or connections</li> <li>The on/off switch is defective</li> </ul>	<ul style="list-style-type: none"> <li>Check and/or replace fuse</li> <li>Check and/or repair connections</li> <li>Replace switch</li> </ul>
The air coming from the vents is not cool enough	<ul style="list-style-type: none"> <li>Windows and air vent wings open</li> <li>The compressor belt is slipping</li> <li>Heater is on</li> <li>Condenser is clogged with debris</li> <li>Refrigerant has escaped through a leak in the system</li> <li>Receiver/drier is plugged</li> </ul>	<ul style="list-style-type: none"> <li>Close windows and vent wings</li> <li>Tighten or replace compressor belt</li> <li>Shut heater off</li> <li>Clean the condenser</li> <li>Check system</li> <li>Service system</li> </ul>
The air has an odor	<ul style="list-style-type: none"> <li>Vacuum system is disrupted</li> <li>Odor producing substances on the evaporator case</li> <li>Condensation has collected in the bottom of the evaporator housing</li> </ul>	<ul style="list-style-type: none"> <li>Have the system checked/repaired</li> <li>Clean the evaporator case</li> <li>Clean the evaporator housing drains</li> </ul>
System is noisy or vibrating	<ul style="list-style-type: none"> <li>Compressor belt or mountings loose</li> <li>Air in the system</li> </ul>	<ul style="list-style-type: none"> <li>Tighten or replace belt; tighten mounting bolts</li> <li>Have the system serviced</li> </ul>
Sight glass condition Constant bubbles, foam or oil streaks Clear sight glass, but no cold air Clear sight glass, but air is cold Clouded with milky fluid	<ul style="list-style-type: none"> <li>Undercharged system</li> <li>No refrigerant at all</li> <li>System is OK</li> <li>Receiver drier is leaking desiccant</li> </ul>	<ul style="list-style-type: none"> <li>Charge the system</li> <li>Check and charge the system</li> <li>Have system checked</li> </ul>
Large difference in temperature of lines	<ul style="list-style-type: none"> <li>System undercharged</li> </ul>	<ul style="list-style-type: none"> <li>Charge and leak test the system</li> </ul>
Compressor noise	<ul style="list-style-type: none"> <li>Broken valves</li> <li>Overcharged</li> <li>Incorrect oil level</li> <li>Piston slap</li> <li>Broken rings</li> <li>Drive belt pulley bolts are loose</li> </ul>	<ul style="list-style-type: none"> <li>Replace the valve plate</li> <li>Discharge, evacuate and install the correct charge</li> <li>Isolate the compressor and check the oil level. Correct as necessary.</li> <li>Replace the compressor</li> <li>Replace the compressor</li> <li>Tighten with the correct torque specification</li> </ul>
Excessive vibration	<ul style="list-style-type: none"> <li>Incorrect belt tension</li> <li>Clutch loose</li> <li>Overcharged</li> <li>Pulley is misaligned</li> </ul>	<ul style="list-style-type: none"> <li>Adjust the belt tension</li> <li>Tighten the clutch</li> <li>Discharge, evacuate and install the correct charge</li> <li>Align the pulley</li> </ul>
Condensation dripping in the passenger compartment	<ul style="list-style-type: none"> <li>Drain hose plugged or improperly positioned</li> <li>Insulation removed or improperly installed</li> </ul>	<ul style="list-style-type: none"> <li>Clean the drain hose and check for proper installation</li> <li>Replace the insulation on the expansion valve and hoses</li> </ul>
Frozen evaporator coil	<ul style="list-style-type: none"> <li>Faulty thermostat</li> <li>Thermostat capillary tube improperly installed</li> <li>Thermostat not adjusted properly</li> </ul>	<ul style="list-style-type: none"> <li>Replace the thermostat</li> <li>Install the capillary tube correctly</li> <li>Adjust the thermostat</li> </ul>
Low side low—high side low	<ul style="list-style-type: none"> <li>System refrigerant is low</li> <li>Expansion valve is restricted</li> </ul>	<ul style="list-style-type: none"> <li>Evacuate, leak test and charge the system</li> <li>Replace the expansion valve</li> </ul>
Low side high—high side low	<ul style="list-style-type: none"> <li>Internal leak in the compressor—worn</li> </ul>	<ul style="list-style-type: none"> <li>Remove the compressor cylinder head and inspect the compressor. Replace the valve plate assembly if necessary. If the compressor pistons, rings or</li> </ul>

# Auto Air Conditioning Problems Troubleshooting

**California (State).**



## **Auto Air Conditioning Problems Troubleshooting:**

**Fundamentals of Automotive Technology** Kirk VanGelder, 2017-02-23 Automotive technicians must learn how to safely and effectively maintain, diagnose and repair every system on the automobile. *Fundamentals of Automotive Technology* provides students with the critical knowledge and essential skills to master these tasks successfully. With a focus on clarity and accuracy, the Second Edition offers students and instructors a single source of unparalleled coverage for every task from MLR through MAST. Fully updated and reorganized, the revised format enhances student comprehension and encourages critical thinking. [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. [Chilton's Auto Troubleshooting Guide](#) Chilton Automotive Books, Chilton Automotive Editorial Staff, 1982-10 **Fundamentals of Automotive Maintenance and Light Repair** Kirk VanGelder, 2019-01-21 Designed to prepare new technicians for ASE G1 Certification, *Fundamentals of Automotive Maintenance and Light Repair*, Second Edition, covers the foundational theory and skills necessary to prepare entry-level technicians to maintain and repair today's light-duty vehicles. **South African Automotive Light Vehicle Level 4 CDX** Automotive, 2013-06-15 *Automotive Repair Industry* United States. Congress. Senate. Committee on the Judiciary. Subcommittee on Antitrust and Monopoly, 1970 [Chilton's Motor/age Professional Auto Heating and Air Conditioning Manual](#), 1979 [Chilton's Auto Air Conditioning & Wiring Diagram Manual](#) Chilton Book Company. Automotive Book Department, 1971 [Automotive Repair Industry: October 6, 8, 9, 14 and 16, 1969](#) United States. Congress. Senate. Committee on the Judiciary. Subcommittee on Antitrust and Monopoly, 1969 **Understanding Auto Technology and Repair** Delmar Publishers, 1999-10-01 This videotape is excellent for the beginning automotive student. It provides a visual introduction to understanding and diagnosing all major systems of the automobile. This tape introduces the purpose of the system, its major components, and provides an explanation of the system's functions. Coupled with a troubleshooting tape, the student is given a general overview of common problems confronted in the workplace. With the same diagnosis procedures used throughout the videos, procedures are reinforced through repetition. **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, 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      **Air Conditioner Repair** Dwayne Bartholf,2021-03-08 Air Conditioner Is Working But Not Cooling What is wrong with my central air conditioner Why is my AC running but not cooling How To Fix Air Conditioner Not Cooling Air Conditioner Not Turning On 7 Signs That You Need Air Conditioner Repair Essential Maintenance For An Air Conditioning Unit The cost of an HVAC service technician is always a concern and while many things that go wrong with an HVAC do require a technician many fixes do not Many simple things that can cost a lot of money for a service tech to fix can be done by the standard home DIY type person      **The Complete Book of Car Maintenance and Repair** John D. Hirsch,1977      **American Artisan** ,1916      **California. Court of Appeal (1st Appellate District). Records and Briefs** California (State).,      Norfolk and Western Magazine Norfolk and Western Railway Company,1944      **Motor Age** ,1928      **Grain and Feed Journals Consolidated (some Issues Omit Consolidated)** ,1907      *Railway Age* ,1927      *Automotive Industries* ,1918

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