

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

Auto Air Conditioning Troubleshooting Guide

Trevor Clinger



Auto Air Conditioning Troubleshooting Guide:

Chilton's Auto Troubleshooting Guide Chilton Book Company,1978 Spine title Chilton auto tune up and troubleshooting On t p Major systems of import cars domestic cars and light trucks test equipment and hook ups

Automotive Air Conditioning Handbook John E. Traister,1978 A complete guide to automotive air conditioner installation service and repair

Chilton's Auto Troubleshooting Guide Chilton Automotive Books,Chilton Automotive Editorial Staff,1982-10

Audel Air Conditioning Home and Commercial Rex Miller,Mark Richard Miller,Edwin P. Anderson,2004-10-28 This guide will keep you cool Like its earlier editions this fully updated guidebook is packed with practical information on installing servicing maintaining and trouble shooting air conditioning systems Whether you re an AC professional an independent repair technician or a cost conscious homeowner everything you need is here Clearly organized and loaded with diagrams and illustrations it s a vital addition to your toolbox Find concise accurate information on installing and maintaining both residential and commercial systems Understand the physics of air conditioning and filtration Make accurate temperature measurements using various methods and devices Work with room air conditioners water cooling systems and auto air conditioning Learn about refrigerants compressors condensers evaporators and AC motors Service troubleshoot and repair both old and new AC units

Glenn's Auto troubleshooting guide ,1969

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Millwrights and Mechanics Guide Carl A. Nelson,1972

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Chilton's Guide to Air Conditioning Repair and Service ,1990

Popular Mechanics ,1984-12 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle

Automobile Repair Guide Boyce H. Dwiggins,1978

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readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

National Union Catalog ,1973 Includes entries for maps and atlases **Catalogue** Montgomery Ward,1941 *Bowker's Complete Video Directory* ,2000 *Gas Engine Manual* Edwin P. Anderson,Ted Pipe,1977 The purpose of this book is to serve as a helpful guide to mechanics and students whose work deals with the operation maintenance and repairs of modern gas engines of various types and sizes The book explains the operating principles of various types of gas engines It then goes on to illustrate the function of the various engine parts and necessary accessories such as carburetors fuel ignition methods cooling and lubricating systems etc It also deals with troubleshooting and modern service operations including engine tune up and emission control procedures The various ignition system items that affect engine performance are fully listed and illustrated Foreword Appleton's Popular Science Monthly ,1948 **The Publishers Weekly** ,1972

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