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)	The A/C fuse is blown Broken or loose wires or connections	Check and/or replace fuse Check and/or repair connections
	 The on/off switch is defective 	Replace switch
The air coming from the vents is not cool enough	Windows and air vent wings open The compressor belt is slipping Heater is on Condenser is clogged with debris Retrigerant has escaped through a leak in the system Receiver/drier is plugged	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	 Vacuum system is disrupted Odor producing substances on the evaporator case Condensation has collected in the bottom of the evaporator housing 	Have the system checked/repaired Clean the evaporator case Clean the evaporator housing drains
System is noisy or vibrating	 Compressor belt or mountings loose Air in the system 	 Tighten or replace belt; tighten mounting bolts Have the system serviced
Sight glass condition Constant bubbles, foam or oil streeks	- Undercharged system	- Charge the system
Clear sight glass, but no cold air Clear sight glass, but air is cold Clouded with milky fluid	No retrigerant at all System is OK Receiver drier is leaking dessicant	Check and charge the system Have system checked
Litres difference in temperature of	System undercharged	Charge and leak test the system
lines	- System to total case goo	· Crange and wax lest the system
Compressor noise	Broken valves Overcharged	Replace the valve plate Discharge, evacuate and install the correct charge
	Incorrect oil level	 Isolate the compressor and check the oil level. Correct as neces- sary.
	Piston slap	 Replace the compressor
	- Broken rings	 Replace the compressor
	 Drive belt pulley bolts are loose 	 Tighten with the correct torque specification
Excessive vibration	 Incorrect belt tension 	- Adjust the belt tension
	Clutch loose	Tighten the clutch
	- Overcharged	 Discharge, evacuate and install the correct charge
	Pulley is misaligned	Align the pulley
Condensation dripping in the passenger compartment	 Drain hose plugged or improperty 	 Clean the drain hose and check for
	 positioned Insulation removed or improperty installed 	Proper installation Replace the insulation on the expansion valve and hoses
Frozen evaporator coil	Faulty thermostat . Thermostat capillary tube improp-	Replace the thermostat Install the capillary tube correctly
	erty installed Thermostat not adjusted property	Adjust the thermostat
Low side low—high side low	- System refrigerant is low	Evacuate, leak test and charge the system
	 Expansion valve is restricted 	 Replace the expansion valve
Low side high—high side low	Internal leak in the compressor— worn	 Remove the compressor cylinder head and inspect the compres- sor. Replace the valve plate as- sembly if necessary. If the compressor pictors or

Automotive Air Conditioning Troubleshooting

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Automotive Air Conditioning Troubleshooting:

Automotive Air Conditioning Handbook John E. Traister,1978 A complete guide to automotive air conditioner installation service and repair 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 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 **HVAC Troubleshooting Guide Rex** Miller, 2009-02-10 A Practical On the Job HVAC Guide Applicable to residential commercial and industrial jobs this essential handbook puts a wealth of real world information at your fingertips HVAC Troubleshooting Guide shows you how to read interpret and prepare schedules mechanical plans and electrical schematics This handy resource will aid you in your everyday tasks and keep you up to date with the latest facts figures and devices The book includes numerous illustrations tables and charts troubleshooting tips safety precautions resource directories and a glossary of terms HVAC Troubleshooting Guide helps you Identify and safely use tools and equipment both new and old Use heat pumps and hot air furnaces Calculate ventilation requirements Work with refrigeration equipment and the new refrigerants Utilize control devices including solenoids and relays Operate select and repair electric motors Work with condensers compressors and evaporators Monitor the flow of refrigerant with valves tubing and filters Comply with the Section 608 refrigerant recycling rule Program thermostats Insulate with batts sheet tubing covers and foam Work with solid state controls Understand electrical and electronic symbols used in schematics Automotive Air Conditioning William Harry Crouse, Donald L. Anglin, 1977

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Guide Carl A. Nelson,1972 Chilton's Auto Repair Manual 1982 Alan F. Turner,1981 Automotive Electricity and Electronics Boyce H. Dwiggins, Edward F. Mahoney,1996 The key to unlocking today s automotive technology is a clear understanding of electricity and electronics Here are the fundamentals needed to work on the new systems and applications Covering everything from the history of electronic applications to fundamental theory and on to troubleshooting and servicing this text leaves no gaps in training tomorrow s technician

Embracing the Melody of Appearance: An Mental Symphony within Automotive Air Conditioning Troubleshooting

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