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Get your heat back on so that you can stay warm Driving in the winter without working heat is beyond unpleasant. Luckily, there are only a handful of reasons why your heat wouldnt be working, and narrowing the problem down isnt particularly complicated. In this article, well break down how your cars heating system works, what could be causing your issue, and what the necessary fixes are. Most often, the heater isnt working because you need a new thermostat, which controls the valve in your engines coolant system.Low coolant or antifreeze can also cause your heater to shoot out unheated air, so check your coolant tank to see if its low.Wiring issues, damaged circuits, and blown fuses can all keep a heater from operating properly.1[Faulty thermostat There is a thermostat inside of your vehicles coolant system that monitors the temperature of the coolant or antifreeze. When you turn the thermostat on, it checks to see if the fluid is hot enough to heat your car. If it isnt, the system stays closed and the fluid is sent back into the engine to reheat. If it is hot enough, the thermostat opens a valve that feeds the air into your car. If the thermostat is busted, that valve will never open, though.[1]Other symptoms: Your temperature gauge rises slowly and your engine overheats. You may also notice poor mileage or engine performance if the issue continues to be ignored.What will happen when you turn the heat on? Air will come out, but it will be cold or room temperature.The fix: The thermostat needs to be replaced. This is a very common repair, so see a mechanic to have it swapped out quickly. 2[Low antifreeze/coolant Its possible that the fluid running through your coolant system is too low to absorb all of the heat your engine is generating. This usually happens when theres a leak somewhere in your coolant lines, but it could also be a sign the coolant has gone bad and its time for a coolant flush.[2]In general, you need a coolant flush roughly every 30,000 miles (48,000km) or every 3 years whichever comes first.[3]Other symptoms: Uneven temperature readings on your gauge, poor engine performance, and gurgling noises in your engine bay.What will happen when you turn the heat on? You may get bursts of heat from the vents, but it will likely be mostly room-temperature air. You may notice the air smells sweet, too.The fix: See a mechanic and ask them to inspect your coolant lines and reservoir for tears. If there are any, draining them and refilling your coolant should solve the problem.3[Damaged wiring The thermostat, coolant pump, and heating system are all connected to the vehicles main electrical system via a complex series of wires. If one of those wires has become short-circuited or a wayward squirrel chewed on one of your wires, it can interfere with your vehicles heating system.[4]You could also have a blown fuse.[5]Other symptoms: You might smell something burning when you drive.What will happen when you turn the heat on? It depends on which wires are or are not damaged. Nothing may happen, or you may get bursts of hot air.The fix: See a mechanic and ask them to inspect your wiring. Theyll be able to locate any electrical issues and fix them for you.4[Gauge error Its possible that the problem isnt the thermostat controlling the coolant temperature, but the gauges interpreting the thermostat. If the gauge isnt communicating with the thermostat, your cars heating system may not work correctly.[6]Other symptoms: The check gauges light may come on and the readings on your engine temperature gauge wont move.What will happen when you turn the heat on? Its likely that one of two things happens. Either the heat comes on but its not particularly hot, or the vents just blow cold air out.The fix: The gauges need to be tested and replaced, so see a mechanic to have them repair the gauges for you.5[Air lock An air lock refers to a bubble or pocket of air thats trapped in the coolant system. This is a problem because air in the coolant system blocks the open flow of coolant through the engine, which can cause overheating, leaks, blown gaskets, and all kinds of problems. How the air got there in the first place is also a potential issue, since it signals there may be a leak somewhere letting the air in.[7]Other symptoms: Weird noises coming from your dashboard, engine overheating, and irregular engine performance.What will happen when you turn the heat on? It depends on where the bubble is and how big it is, but its very likely youll either get random bursts of hot air, or nothing but room-temperature air.The fix: See a mechanic to have your coolant system bled and cycled. Then, the mechanic will need to diagnose and fix the underlying issue, which is often a leaky radiator gasket or a tear in a coolant line.6[Blockage A blockage in your coolant system is almost always a really big air lock that gets stuck because the pressure in the system gets too high and/or the pocket gets lodged in a spot where it cant continue to circulate through the system. This will cause all kinds of serious problems if isnt addressed soon.[8]Other symptoms: The coolant in the reservoir bubbles when your car is running, the coolant color changes, the engine runs hot, and eventually, your system develops coolant leaks.What will happen when you turn the heat on? The air may start out hot when you turn the heat on, but it will quickly peter out and turn into room-temperature air.The fix: Do not continue to drive! Get the vehicle to a mechanic and have them bleed and flush your system to locate the problem.7[Bad blower motor If nothing happens when you turn the heat on, youve almost positively got a blown blower motor. The blower motor is the component that actually forces air into your cars cabin. If the motor fails, nothing will push the air out when you turn the air or AC on.Other symptoms: No air comes out at all when you turn the heat on, or the air comes out hot but its much weaker than it should be.What will happen when you turn the heat on? Nothing at all.The fix: The blower motor needs to be replaced. This is luckily a very cheap and quick repair job for a mechanic.8[Bad heater core The heater core is the compartment that the thermostat is in control of opening once the heat is turned on and the coolant is hot. If the heater core is blocked or theres an air lock, it can crack and let the coolant outresulting in poor airflow. This is a rare problem, but it can happenusually when you dont perform maintenance or get an air conditioning problem repaired.[9]Other symptoms: Coolant leaks into your cabin. This is the only heater problem where something will leak into the cabin. You may also notice your windows fogging up, or notice a sweet odor.What will happen when you turn the heat on? You wont get any heat. If air keeps blowing out, your dashboard will eventually start to leak coolant.The fix: See a mechanic to have the dashboard disassembled and the heater core replaced. Youll likely need a coolant flush, as well. Coolant/antifreeze circulates through the engine to redirect heat. Your engine generates a lot of heat. To keep it from overheating, coolant or antifreeze is pumped through channels in the engine (called water jackets), where the liquid absorbs heat. If you dont turn the heater on, that heat gets sent to the radiator where the liquid cools back off and the loop repeats itself. If you do turn the heat on, the hot coolant/antifreeze is directed through a railing where the hot air gets blown into the car.[10]Just FYI, theres no real difference between antifreeze and coolantthey perform the same function. The difference is how much water there is in the mixture. This is why you should turn your heat on and lower the windows if your engine ever starts overheating and you cant pull over immediatelythe heat will have an easier time dissipating with your vents open.The heating system in electric cars is a little different. The main difference is that air is compressed to heat it instead of relying on coolant. The rest of the system is basically the same.[11]Most of the heating system repairs are relatively inexpensive. Every shop has their minimums, and you have to pay the hourly rate for labor, but the heating system repairs tend to be on the lower side of things when it comes to automotive issues. Its never fun to pay for vehicle repairs, but so far as problems go, these are usually on the lower end.[12]The cheapest repair will be a coolant flush or top-off, which should cost more than \$100 or so.Hose repairs, cracks in coolant lines, and damaged wiring will usually run \$200-400.The most expensive repairs are a blower motor or blower core replacement. These can run anywhere from \$550 to \$2,000 depending on your make and model. Ask a Question This article was reviewed by Jason Shackelford and by wikiHow staff writer, Eric McClure. Jason Shackelford is the Owner of Stingray Auto Repair, a family owned and operated auto repair shop with locations in Seattle and Redmond, Washington. He has over 24 years of experience in auto repair and services, and every single technician on Jasons team has more than 10 years of experience. This article has been viewed 3,868 times. Co-authors: 4 Updated: January 11, 2024 Views: 3,868 Thanks to all authors for creating a page that has been read 3,868 times. Theres nothing worse than getting into your car on a freezing morning, turning on the heater, and feeling nothing but cold air. Its frustrating, especially when youre already shivering and just want a warm, comfortable drive. But dont panic, this issue is more common than you might think, and in many cases, its easy to fix.This post will help you understand the possible causes and walk you through simple troubleshooting steps to get your heater working again. How Your Car Heater WorksBefore we get into the causes and fixes, its important to understand how your cars heating system works. Unlike a home heater that uses electricity, your cars heater relies on engine heat. Heres how it functions:The engine produces heat as it runs.Coolant absorbs the engines heat and circulates through the heater core.The heater core acts like a small radiator, transferring heat to the air.A blower motor pushes the warm air into your cabin through vents.Temperature settings are controlled by blend doors and other HVAC components.If any part of this system fails, your car heater wont work properly.Common Reasons Your Car Heater Is Not Working (With Fixes)Here are all the reasons why your car heater is not working and their solutions in detail, which are as follows:#1. Low Coolant LevelWhenever the coolant level in your car is low, your car heater will not work and vice versa, the engine will overheat.The heater blows cold air instead of warm airThe engine temperature is rising or overheatingThe low coolant warning light is flashing on the dashboardYour cars heater relies on the warm coolant from the engine to warm the air before it enters the cabin. When the coolant level gets too low, there isnt enough fluid to reach the heater core, leaving you with nothing but cold air. This problem is often caused by leaks in the cooling system, a faulty radiator cap, or air pockets preventing proper coolant flow.How To Fix It?Check the Coolant Level: Open the hood and inspect the coolant reservoir and radiator (only when the engine is cold). If the level is low, this could be the reason your heater isnt working.Top Off The Coolant: Add the correct type of coolant as directed in your vehicle manual. Mixing different types of coolant can cause problems.Check For Leaks: Check for puddles of coolant underneath the car. If you see green, orange or pink fluid, you probably have a leak.Inspect Components: Check the radiator, hoses and water pump for visible signs of damage or leaks. If leaks are found, repair or replacement may be necessary.Bleed the System: If air pockets are trapped in the cooling system, they can block the flow of coolant. Some vehicles require a bleeding procedure to remove air after adding coolant.Keeping your coolant at the proper level not only ensures the heater works, but also prevents the engine from overheating, which can require costly repairs if ignored.#2. Faulty ThermostatA faulty thermostat is one of the most common culprits behind a car heater blowing cold air. The thermostat controls the flow of coolant through the engine, ensuring it reaches the proper operating temperature.Engine takes longer than usual to warm upTemperature gauge never or doesnt reach the optimum rangeHeater blows cold or lukewarm airWhen the thermostat is stuck open, coolant flows continuously through the engine, preventing it from heating up properly. As a result, the heater core, which relies on hot coolant, cant produce warm air for the cabin.How To Fix It?To check if the thermostat is the issue, monitor the temperature gauge while driving. If it stays low or doesnt reach the normal range, its likely time to replace the thermostat. Replacing it will restore the correct coolant flow and get your heater working again.#3. Clogged or Leaking Heater CoreA clogged or leaking heater core can cause weak or no heat from the vents, foggy windows, and a sweet smell in the cabin. These issues are a sign that your heater core is either blocked or leaking coolant, affecting the heating system.Weak or no heat from the ventsFoggy windows (coolant leaking inside the cabin)Sweet smell inside the car (coolant odor)The heater core works by using hot coolant from the engine to heat the air inside the cabin. When the heater core becomes clogged, it restricts the flow of coolant, preventing the air from warming up properly.A leak in the heater core can cause coolant to escape, lowering the coolant level and leading to reduced heating efficiency. If coolant leaks inside the cabin, it can cause a sweet smell and foggy windows due to condensation on the glass.How To Fix It?To clear a clogged heater core, flush it with a garden hose to remove blockages.If the heater core is leaking, it may need to be replaced. This is usually a more involved repair that may require professional help, as the heater core is often difficult to access and replace on your own.#4. Blower Motor or Resistor FailureA malfunctioning blower motor or resistor can prevent warm air from blowing into your cars cabin, leaving you without heat when you need it most.No blowing from ventsBlowing only on certain speedsBlowing only on high speedThe blower motor is responsible for pushing air through the heater core, including the heated air from the heater core. If the blower motor or resistor fails, the airflow cant get through the vents, so you wont get any heat. The resistor controls the fan speeds to see if it responds properly.If the motor only works on certain speeds, the resistor may need replacing.Inspect the blower motor for any visible signs of damage or wear and replace it if necessary.#5. Blend Door or Actuator ProblemIsnt your cars heater isnt working properly, the blend door or actuator could be the culprit. This part is responsible for controlling the temperature of the air flowing through the cabin, and if its malfunctioning, you might find yourself stuck with either hot or cold air.SymptomsStuck on hot or cold airClicking noise coming from behind the dashboardHeater works intermittently, sometimes blowing hot air, other times coldThe blend door is a crucial component of your cars climate control system. It controls the flow of air between the hot and cold settings, allowing you to adjust the temperature to your preference. If the blend door becomes stuck or the actuator fails, it can prevent the air from being directed properly.This can result in only hot air or only cold air blowing from the vents. In some cases, you may hear a clicking sound coming from behind the dashboard, indicating that the actuator is malfunctioning.How To Fix It?Listen for clicking noises behind the dashboard, which may indicate a faulty actuator.Try adjusting the temperature settings to see if the air temperature changes at all.If the air doesnt change, the blend door or actuator may need to be inspected and replaced.In some cases, the dashboard may need to be removed to access the blend door, so this repair can be more complex. If youre not comfortable doing this yourself, consider taking the car to a professional mechanic.#6. Broken Control Panel or ButtonsIf your car heater isnt working properly, the issue might be with the control panel or buttons. A malfunction in these components can prevent you from adjusting the temperature or fan speed, leaving you stuck with no heat or incorrect settings.Buttons or dials feel loose or unresponsiveThe temperature gauge is flickering or not lighting upOver time, the control panel and buttons in your car can wear out or become damaged, especially if they are frequently used. Electrical connection or internal components may become faulty, preventing the system from receiving your input to adjust the temperature or airflow.This can lead to your heater blowing cold air or not functioning at all. If the control panel is damaged or buttons are stuck, the heater may not be able to adjust as needed.How To Fix It?Inspect the control panel and buttons for visible damage, such as cracks or wear.Check if any buttons are sticking or not responding when pressed.If the issue is electrical, check the fuses or wiring connected to the control panel.Reset the system by disconnecting the car battery for a few minutes and reconnecting it.If the problem persists, you may need to replace the control panel or have the buttons repaired by a professional.#7. Radiator IssuesA faulty radiator can cause your heater to blow cold air and can even lead to engine overheating. Understanding how to spot radiator issues can save you from costly repairs and uncomfortable drives.Heater blows cold airEngine temperature rises higher than normalVisible coolant leaks under the carSteam or unusual odors coming from the engineThe radiator plays a critical role in maintaining the engines temperature by dissipating heat from the coolant. Over time, the radiator can become clogged, damaged, or develop leaks. If the radiator is not functioning properly, the coolant wont circulate effectively, causing the heater to blow cold air and the engine to overheat. This can be caused by debris buildup, corrosion, or physical damage to the radiator.How To Fix It?Inspect the radiator for visible signs of leaks or damage.Check the radiator fins for blockages caused by dirt, leaves, or debris.Flush the radiator if there is buildup or corrosion inside.Ensure the radiator cap is securely tightened to maintain proper pressure.If the radiator is severely damaged or leaking, consider replacing it.Consult a professional mechanic if youre unsure about the condition of your radiator or if further repairs are needed.By addressing radiator issues early, you can ensure that your cars cooling system works efficiently and prevent more serious engine problems from occurring.#8. Air in Cooling SystemAir trapped in the cooling system can cause your heater to blow cold air. 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