



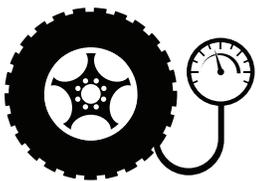
## 5 Hidden Cold-Weather Car Issues And How to Fix Them

Most people know that frigid temperatures are tough on car batteries and regular tires don't usually perform well in snow. However, many drivers don't realize winter can have other less-apparent detrimental effects on vehicles. What hidden issues should you watch for, and how can you resolve them? **The following list has the answers!**



### 1. Reduced Tire Pressure

**The issue:** Air molecules contract in cold temperatures. So when the mercury dips, the air pressure in your tires will, too. Expect tire pressure to decrease by about one to two PSI (pounds per square inch)



for every 10 degrees that the temperature drops. Under-inflated tires wear down faster, are more prone to blowing out, and reduce fuel mileage.

**The fix:** Check your air pressure regularly when experiencing temperature fluctuations and add air when the reading falls below the recommended PSI for your vehicle.

### 2. Underside Damage

**The issue:** Snow, ice, salt...they can do a number on the undercarriage of your car. If they build up, they can corrode or rust the metal components underneath your vehicle.

**The fix:** Regularly wash beneath your car (aim for once per month) to remove potentially damaging road residue.

### 3. Diminished Driving Distance for Electric Cars



**The issue:** A 2019 AAA study found that when the temperature is 20 degrees F and an electric car's HVAC system is turned on to heat the vehicle's

*(continued on pg. 3)*

# Are You Ready for the Cold?

According to the Farmer's Almanac, central PA can expect a shivery, slushy, icy, snowy winter this season. While avid skiers, snowboarders, snow angel makers, and snowball battle aficionados may celebrate this prediction, other Pennsylvanians cringe at the thought. Regardless of your take on it, you need to be ready if you plan to drive this winter! The following questions will help ensure you're prepared.

## 11 Questions to Test Your Winter Preparedness

1. Do you have an ice scraper, snow brush, and shovel in your vehicle?
2. Does your car have the proper tires—with adequate tread depth and air pressure—to handle winter conditions?
3. Do you have kitty litter (or other abrasive material) to give you traction if your car gets stuck in snow or on ice?
4. Do you know how to properly use your vehicle's snow mode setting and anti-lock brakes?
5. Do you have a flashlight, coat, hat, gloves, scarf, blankets, water, snacks, and vital medications if you become stranded?
6. Do you have fresh, high-quality antifreeze in your car?
7. Do your emergency flashers, headlights, turn signals, brake lights, and interior lights work?
8. Do you have a first aid kit stored in your vehicle?
9. Are your windshield wipers in good condition, and have you filled your car's reservoir with high-quality washer fluid with de-icer?
10. Do you have jumper cables and flares (or other emergency markers)?
11. Do you have a charging brick to charge your mobile phone if your car loses power?

While these questions cover just the tip of the iceberg when planning for winter travel, they're a great starting point. A little preparation will go a long way toward ensuring your safety and comfort on the roads this winter.



*(continued from pg. 1 - 5 Hidden Cold-Weather Car Issues.)* interior, the driving range decreases on average by 41 percent. If drivers aren't aware of this effect, they could end up stuck with a dead battery mid-way to their destination.

**The fix:** Charge your electric vehicle more frequently and warm it up while it is plugged in. Also, leverage your car's eco features designed to optimize the mileage you get on a charge.

### 4. Slow-as-a-Sloth LCD Screens

**The issue:** The molecules in LCD screens move less quickly in cold weather, so you may notice your screen is slow to respond.



**The fix:** Have patience. Allow your car to warm up a bit. After the interior temperature rises, your LCD should function normally.

### 5. Fluids That Freeze Up

**The issue:** Extremely cold temperatures can affect transmission fluid and coolant in your vehicle. When transmission fluid becomes too cold, it will not flow efficiently. As a result, your car may struggle to shift gears. Engine coolant/antifreeze—especially if it hasn't been changed for three years or more—can freeze in plummeting temperatures, preventing your vehicle from maintaining an ideal operating temperature. And drivers who have put water rather than a bona fide antifreeze/coolant in their reservoir run an even greater risk of problems.



**The fix:** If possible, keep your car in a garage to protect it from severe cold. Also, warm up your vehicle before driving it. To make sure your antifreeze is still doing its job, ask a mechanic to check it and change it if necessary.

### The Bottom Line

Knowledge is power for keeping your car in excellent working order during the chilly months ahead. If you have any questions or need assistance with your vehicle's winter maintenance routine, call us!

**HUMOR**  
**me**

## IT'S SNOW JOKE!

- **Snow blindness** happens after too much ultra violet light, and causes temporary pain.
- **Watermelon snow**, pink or red in color, is caused by green algae.
- The **history of the snowman** dates back to the 1400's when local artist, including Michael Angelo, considered snow to be free art supplies.
- The **first snowman photograph** was taken in 1853.
- **Thundersnow** takes place in winters when warm columns of air rise from the surface near a lake, they form massive storm clouds in the sky.
- An **average snowflake** measures .02 inch to .2 inch
- Aomori city, located in Japan on the northern side, attains the **greatest amount of snowfall** worldwide. Every year the city is gifted with a layer of snow 26 feet (312 Inches) wide.

From  
<https://www.coolkidfacts.com/facts-about-winter/>

<https://littlelearningcorner.com/2021/10/building-sentences-10-winter-facts-for.html>



- 1/4 cup extra-virgin olive oil plus 1 tablespoon, divided
- 1 cup chopped onion
- 3 cloves garlic, minced
- 2 pounds mushrooms, sliced
- 3 tablespoons all-purpose flour
- 3/4 teaspoon salt
- 1/2 teaspoon ground pepper
- 1/2 cup sour cream
- 1/4 cup Parmesan cheese plus 1 tablespoon, divided
- 1/4 cup chopped fresh parsley plus 1 tablespoon, divided
- 1 tablespoon lemon juice
- 1/4 cup panko bread crumbs

### Directions

Heat 1/4 cup oil in a large skillet over medium heat. Add onion and cook, stirring, until soft and starting to brown, about 3 minutes. Add garlic and cook, stirring for 1 minute. In batches, add mushrooms, stirring until they've lost their opaqueness, but some liquid is still in the pan. Sprinkle flour, salt and pepper over the vegetables

and cook, stirring, until thickened, 1 to 2 minutes. Remove from heat and stir in sour cream, 1/4 cup Parmesan, 1/4 cup parsley and lemon juice. Transfer to the prepared baking dish.

Combine panko and the remaining 1 tablespoon each oil, Parmesan and parsley in a small bowl; mix until well blended.

Sprinkle the topping evenly over the mushroom mixture. Bake until bubbling and the bread crumbs are lightly browned, 20 to 25 minutes.

Excellent on toast crisps as an appetizer.

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