

I'm not a bot



























securely held in place to keep it from bouncing around and shorting against grounded car parts. Use a battery trickle charger or maintainer to help you keep the battery topped up. Ahead, you'll find advice from experienced Automotive Service Excellence (ASE) and manufacturer-certified technicians who guide you through the steps to clean battery corrosion and help extend the life of your battery. Baking soda or spray battery cleanerBattery terminal anti-corrosion washersBattery terminal covers (if missing)Battery terminal protective spray or greaseBucket of clean water or garden hoseDielectric grease or VaselineDisposable containerDisposal shop or paper towelsDistilled water (optional) A battery contains sulfuric acid that can cause serious burns. Always wear gloves and eye protection when working around a battery. Smoking, flames, sparks, or other ignition sources can cause a battery to catch fire or explode. Exercise caution when jump-starting or working near a battery with metal tools to prevent short circuits and sparks. If you come into direct contact with battery acid, flush with plenty of water and seek medical attention immediately. VIA MERCHANT Don't skip this step. A battery memory saver supplies current to different computers to avoid deleting, radio, keyless entry and clock memory settings. It will also save other critical data, including engine monitor status, that if not preserved, will turn on the check engine light and cause drivability issues. Here's how to do it: Family Handyman Complete DIY projects like a pro! Sign up for our newsletter! Do It Right, Do It Yourself! Mix one tablespoon of baking soda with two cups of hot water in an old, clean plastic cup. Remove heavy corrosion from the outside of the terminals with the plastic parts cleaning brush. Clean the battery case with an old toothbrush or parts brush and baking soda solution or spray battery cleaner. Flush the battery with clean water and wipe dry. Be careful — do not splash the water or cleaning solution on you or other parts of your car. Dry the battery with clean, disposable shop rags. Family Handyman According to ASE master technician Jon Stull, look for the positive (+) and negative (-) markings on the battery itself. The positive cable should be red or have a red cover. The negative cable should be black or have a black cover. First, determine the positive and negative terminals. Always disconnect the negative (-) black battery terminal first. Always reconnect the negative (-) black cable last. Remove battery terminal protective covers. Loosen the negative (-) terminal clamping bolts with a wrench or socket. Disconnect the terminal clamp from the negative (-) battery post. Do not twist the terminal clamp if it's stuck or "frozen" to the battery post. Use a battery terminal puller to carefully remove the terminal. Repeat for the positive (+) post. Even after a lifetime in the automotive repair industry, sometimes I find identifying dirty or corroded battery cables confusing. Cleaning the battery should expose the (+) and (-) markings. If you're still unsure, use an inexpensive digital volt ohm meter (DVOM) to determine which is which. If you connect the positive lead of the DVOM to the positive battery terminal, and the negative lead to the negative battery terminal, the DVOM should display the battery voltage, around 12.6V. If the DVOM displays a negative (-) symbol in front of the battery voltage reading, you've connected it backward. Either way, now know how to proceed! Deep clean the battery posts and terminals with a battery terminal cleaning tool (recommended) or, in a pinch, 120-grit sandpaper. Use caution and remove only enough material to fully clean battery corrosion from the posts and terminals. Removing too much material from the posts or terminals will cause poor connections and additional repairs. Clean any dirt from the posts with a damp paper towel. Dry the posts with clean, disposable shop rags. FAMILY HANDYMAN Family Handyman Always connect the positive/red terminal first. Push down the terminal clamps onto the post until they touch the anti-corrosion washers or top of the battery. In most applications, the top of the post will stick up slightly past the top of the terminal end. Securely fasten terminal clamp nuts with a wrench or socket. VIA MERCHANT Before sliding the battery terminal covers back onto the terminal clamps, coat both terminals with battery terminal protection grease (preferred) or Vaseline to prevent corrosion. Using protection grease or Vaseline gives you more peace of mind and double the protection. Fortunately, now that you know how to clean corroded battery terminals, you can do this repair without too much trouble. Plus, extra protection is never a bad thing. VIA MERCHANT ASE master technician John Alcaro advises checking the battery fluid level if your car has a non-maintenance-free battery. "Top [the battery] off with distilled water if the [fluid] level is low," says Alcaro. FAMILY HANDYMAN Unfortunately, over my career, I have seen the damage caused by not cleaning corroded battery terminals—and it's more serious and costly than just difficulty starting. Extreme voltage, and amperage surges from potential arcing between a corroded terminal clamp and battery post, can quickly cause an engine control module (ECM), the electronic air conditioner display/control panel or any of the other sensitive, and expensive electronics in our cars and trucks to fail. About The Experts, Jon Stull is an ASE and Ford certified master technician, PennDOT certified emissions and safety inspection instructor and inspector and a Pennsylvania Department of Education (PDE) certified Career and Technical Education automotive technology instructor at North Montco Technical Career Center in Lansdale PA. John Alcaro is a former repair automotive shop owner and has been an ASE master technician for over 35 years. He is a PennDoT certified emissions and safety inspection instructor and inspector, and PDE certified automotive technology instructor at North Montco Technical Career Center. Sources Duffy, J. (2022). Modern Automotive Technology (10th ed., pp. 359, 368-37). The Goodheart-Willcox Company, Inc., Tinley Park, IL. John Stella, ASE technician, Faulkner Collision (Interview, Jan 15, 2025) You wash, wax, and vacuum your car to keep it looking sharp. But have you ever considered cleaning things under the hood? By cleaning your battery terminals, you can actually help the car battery perform stronger, longer! We'll show you how to clean the terminals and help prevent car battery corrosion in only FIVE steps - with materials you probably already have at home! Materials Protective gloves, like dish gloves Baking soda Water Old toothbrush Rag Petroleum jelly Step 1: Mix up your homemade battery cleaner. The recipe is simple. Mix one tablespoon of baking soda into one cup of water, and stir it together until it's thoroughly mixed. Step 2: Undo the cables from the battery and inspect it. Make sure your engine is off. Pop open your hood and remove the negative battery cable first. Then the positive cable attached to your battery. Some batteries may be in the trunk or under a seat. (Turn to your owner's manual for more information.) Then, assess your battery. Buildup, battery corrosion, and grime on the terminals can greatly impact your engine and battery performance. If you notice that the battery case is leaking, swollen, or bloated, skip the cleaning and head straight to your nearest Firestone Complete Auto Care for a new battery. Yours is on its way out! Step 3: Dip a toothbrush in your cleaner and start scrubbing! Grab an old toothbrush, dip it in your baking soda cleaner, and start scrubbing the terminals. This will take a little bit of elbow grease and you'll need to continuously clean off the toothbrush as you work. Clean the terminals thoroughly, until all of the buildup has been removed. Do not put the toothbrush back in the bathroom! Step 4: Rinse off the residue with water and dry. After you've removed all of the corrosion and dirt from the terminals, give the battery a quick rinse. Fill up a spray bottle with a bit of water and spray down the terminals. If you don't have a spray bottle, you can also wipe everything down with a damp rag. Then, use another rag to dry the terminals completely. Step 5: Rub petroleum jelly onto the terminals and reattach the cables. Once the terminals are dry, dab a bit of petroleum jelly onto them. This will lubricate them, help prevent further corrosion, and help strengthen the connection. Reattach the positive and negative cables, and you're all set! Be careful, too much petroleum jelly can cause a poor connection. Keeping your car battery clean can help get things moving when your car won't start and battery flow is weak. Staying on top of your battery's charge is crucial to avoid getting stranded. Stop by your nearest Firestone Complete Auto Care for a battery test at your convenience! Our technicians will let you know just how much "life" is left in your battery, so you can hit the road with peace of mind - and a new battery, if necessary! Up Next We've all experienced a car that won't start. Read on to find out what the issue might be and if it may be time to get your car battery replaced. Read More Get help choosing the right battery for your car with this handy guide, from your friends at Firestone Complete Auto Care. Stop by for a battery test today! Read More Learn more about the top 5 reasons your car won't start and what you may be able to do to bring it back to life ASAP, from Firestone Complete Auto Care. Read More