

Safe and Proper Automobile Battery Installation Instructions

PRE-CAUTION AND WARNING:

Batteries contain hazardous sulfuric acid. Avoid contact with skin and eyes. Always wear protective eye wear and clothing when handling batteries. Batteries produce potentially explosive hydrogen gas while charging, and retains that gas for some amount of time. Keep flames, cigarettes, sparks, and any other fire source away from batteries. Do not place metal tools on the battery that could contact battery terminals and cause arcing. Avoid standing directly over the battery while working around a battery.

REMOVING THE OLD BATTERY:

1. First, identify and mark the positive cable, usually marked (+) or POS on the battery. (Do not suppose that a red cable is the positive cable.) Next, identify the negative cable, usually marked (-) or NEG on the battery.
2. Remove the NEGATIVE cable terminal FIRST. This will prevent any possible arcing or sparking while removing the positive cable in the next step. Use the proper size wrenches to prevent stripping of the nut or bolt. Do not allow tools to touch both posts or terminals at the same time. Do not stand directly over the battery.
3. Remove the POSITIVE cable terminal last.
4. Loosen and remove the hold down assembly that secures the battery to the tray.
5. Remove old battery from the tray. Use caution. Use rubber gloves to protect hands from corrosion that may be on the battery. Wear safety glasses.
6. Clean cable ends with a battery cleaner and a wire brush. Connections should be bright and shiny. Scrape any crust covered lead off the terminal to assure a good connection. Replace any parts that are faulty, broken, loose or defective. Clean the battery tray to assure longer life of the tray. Clean and oil hold-down bolts prior to re-securing.

INSTALLING THE NEW BATTERY:

1. Place your battery into the tray and secure with the hold down clamp and bolts. Securing the battery properly prevents undue vibration which damages a battery and shortens its life. Replace any corroded or broken hold-down parts. Avoid leaning directly over the battery.
2. Attach and tighten the POSITIVE cable clamp first. Do not over tighten side-terminal connections. Do not use vice grips to tighten. Use the proper size wrench or socket. If bolt or nut edges are rounded, replace. Properly spread a top post clamp to fit over the post. Do not use a hammer.
3. Finally, attach the NEGATIVE last, and tighten properly.
4. After the terminals are connected, anti-corrosion spray is recommended to seal out future corrosion. Anti-corrosive pads do a great job for this, but be aware that certain cable clamps need to fit tight to the top of the battery, and pads would raise this up and the clamp may not tighten properly.
5. It is recommended that the alternator and starter is checked for proper operation to assure these are not part the battery related problem.
6. Do not smoke around or above the battery. Hydrogen gasses in the battery may explode, causing possible bodily injury or death. An exploded battery voids warranty, as it is not a manufacturer's fault.