

How To Make Distilled Water For A Car Battery

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How do you need to make distilled water? Making distilled water is easy. All you need to do is boil water, catch the condensation formed by the boiling water and then let the condensation cool to become water again. This time, the cooled condensation is free of salt, minerals and other impurities.

Actually, there are many ways of preparing distilled water that can be used for a car battery. What I described is the most effortless and uncomplicated. All you need are a shallow pot with a glass lid, a small cup or dish, and a stove.

Boil the water. As the water boils, steam will rise up the lid and become condensed water. The inverted lid will direct the condensation to the center of the pot and down to the dish/bowl.

This condensed water is free of salt, minerals and other impurities normally found on tap water. This is the distilled water you can use to replace the liquid in the electrolyte of your battery.

The most commonly used battery for a car is a lead-acid deep cycle rechargeable battery. And usually it's a wet or flooded lead-acid battery since it is the least expensive, but not necessarily cheap. A battery is a form of investment that needs to be taken care of to prolong its life so that you get the most out of your investment.

And lead-acid battery has four major components; a positive plate, a negative plate, a separator, and the electrolyte. The electrolyte is a solution made up of a mixture of sulphuric acid and water, normally, distilled water.

One problem or issue with a wet or flooded lead-acid battery is regular maintenance. The water in the electrolyte solution needs to be topped off periodically. When a chemical reaction is generated in the electrolyte to produce electrons, the water in the electrolyte solution evaporates and the water level is diminished.

To ensure that the battery is in good form and will last longer, you need to replace or top off the water in the solution periodically. If you don't do this regular maintenance, the plates, which are supposed to be submerged in the solution, will be exposed and will become warp or distorted, causing an irreparable damage to the battery.

So why distilled water? Distilled water is free of impurities such as salt and minerals found in tap water. These minerals and other impurities clog the pores and create a layer of scum on the battery plates. This affects the normal chemical reaction that takes place in the generation of electricity and could shorten the life of the battery.

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On the other hand, using distilled water on a battery will help prolong the life of your battery since it is already free of the salt, minerals and other impurities found on tap water. It does not only prolong the life of your battery, but it also improves the battery's efficiency and performance.

In adding distilled water to the electrolyte solution, there are some precautions that need to be followed. Keep in mind that you are dealing with a hazardous substance, sulphuric acid. Any misstep could cause injury and even a serious accident such as an explosion or fire. Learning the right and safe way to add water to the battery is important in caring for your battery.

Second, prepare the work area by seeing to it that it is clear, with no open fire or anything that could cause combustion. Prepare a pale of water close by to douse off any spark and clean off spills.

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