

# How to Convert a Normal Car into an **ELECTRIC CAR**

Electric cars can be an expensive investment and one not many can afford. The idea of having a car that runs on electricity is a popular one that many want to make a reality. So, many people wonder if they can turn their existing gas-powered car into an electric one and how to do it.

## How to Turn a Car Into an Electric Car

The first thing to remember is that removing an engine from a car is not the easiest thing to do. It requires time and patience and certain tools to hoist it out of the frame of the car once it is detached.

## What Cars Can Be Converted?

Any car can be converted into an electric one. Many people choose older cars because they benefit the most from a conversion. Older cars tend to have less-efficient parts comprising their inner workings. Replacing those parts will make the car run much better.



### Remove the Combustion Engine

The first step in converting a normal car to an electric car is removing the combustion engine and anything that goes along with it (except the transmission, which can be used later to help hook up the electric motor).



### Remove the Fuel Tank

Since you have already disconnected everything regarding the engine, you can move to the fuel tank, which is located in the rear of the car. Since your car will be running on batteries, there is no need for a fuel tank.

Now that you have removed the engine, its only current purpose is adding unnecessary weight to the vehicle.



### Install an Electric Motor

Electric motors are much more reliable than regular engines. Part of this is because they do not have the same amount of moving parts as a regular engine.

Instead, they rely on technology that converts energy that keeps your car running.



### Install the Batteries

If you want your converted electric car to run, you will need to install a pack of batteries to supply energy to the electric motor that you installed in the front of the car.

Many people install these batteries in the rear of the vehicle in the trunk area.



### Install Additional Motors and Mechanisms

Once you have chosen your batteries, you will need to secure them and wire them to the electric motor.

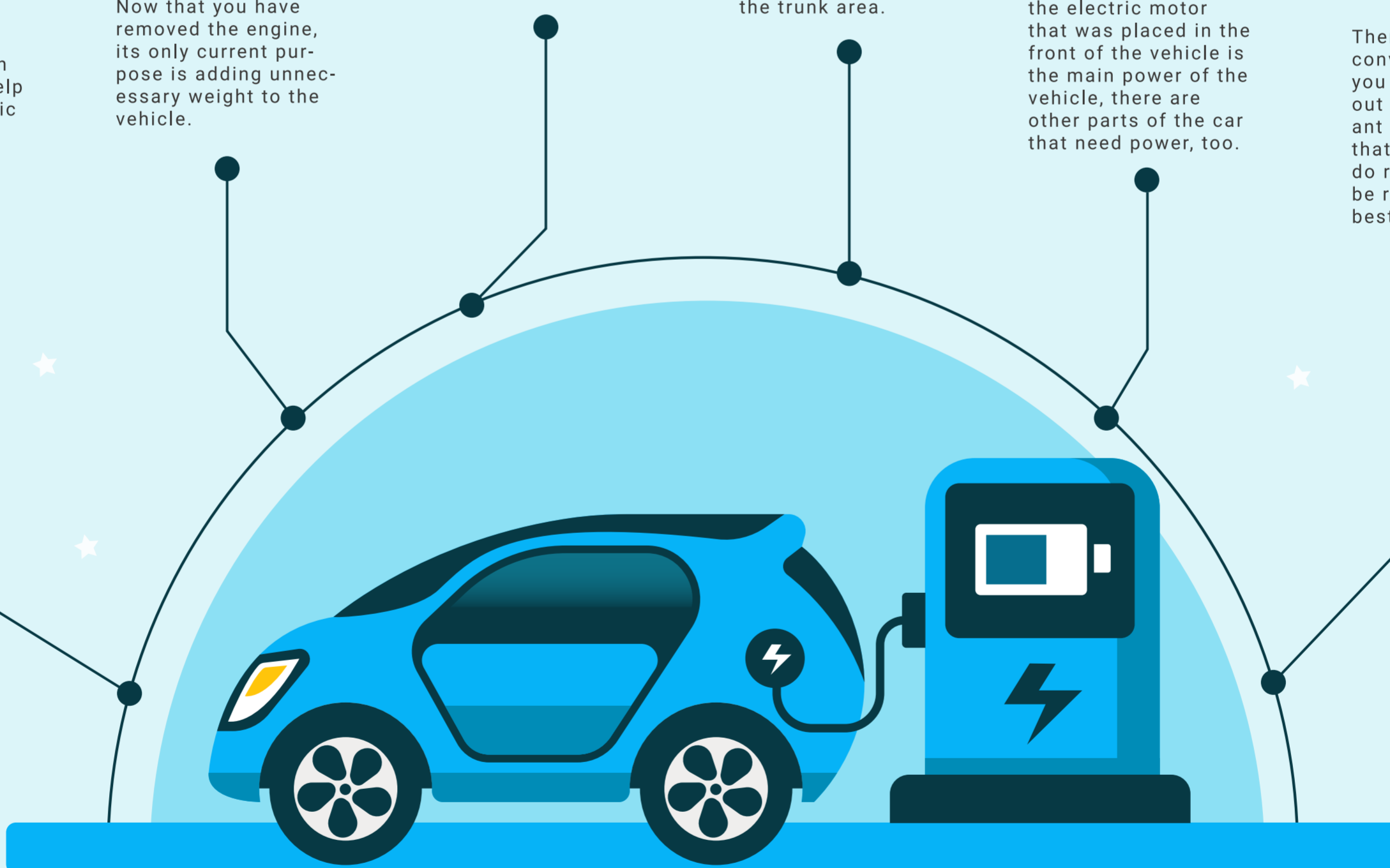
However, you may need more than one electric motor. While the electric motor that was placed in the front of the vehicle is the main power of the vehicle, there are other parts of the car that need power, too.



### Get the Car Inspected

In the United States, when you convert a gas-powered vehicle to an electric car, you do not need to get it re-certified by either the EPA or CARB.

Therefore, once you convert your vehicle, you can drive it without issue. It is important to note, however, that other countries do require your car to be recertified, so it is best to check first.



## Consider these points that make converting a car into an electric car a little tricky.

- The engine needs to be drained. Remember, car engines require fossil fuels to run, so before you can detach it, you need to drain it, which can get messy.
- The engine needs to be detached. You need to know all the connections that keep an engine in place so you can detach them.
- You need to know how to connect the new motor. The new electric motor will be simpler than the gas engine, but you will need to know how to hook it up.
- A general working knowledge of cars is needed. It is best if you know where most things are located under the hood of your car. It makes the process go quicker.
- The engine of a car can weigh upward of 400 pounds, maybe more. One of the biggest obstacles is the weight of the engine. You will need a small hoist to remove it.