

How Do Electric Vehicles Work?



Heffner

TRANSMISSION

As electric motors are extremely efficient, the vast majority of EVs only have a single gear that works across all speeds and loads.

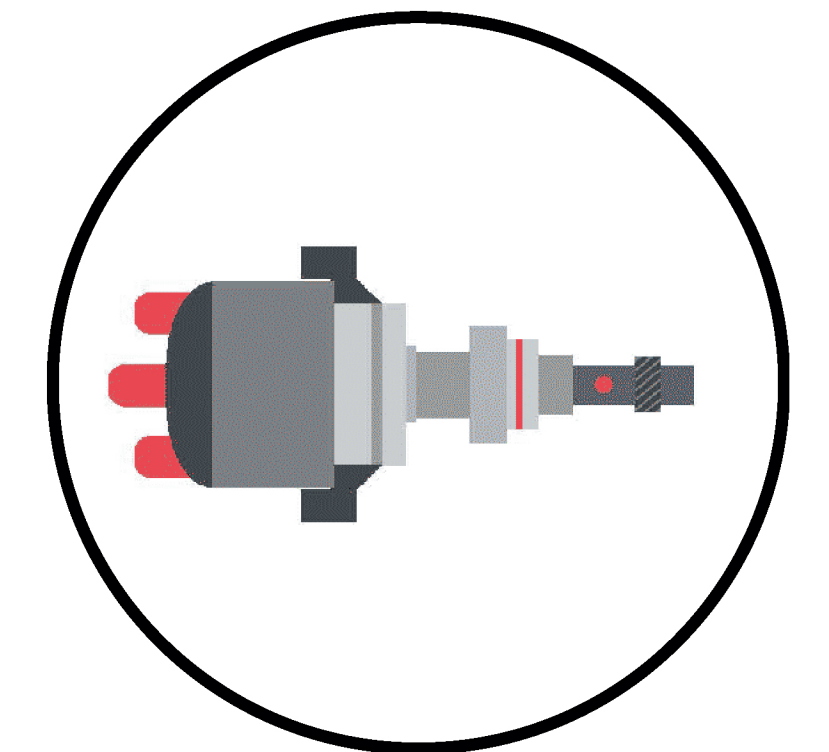
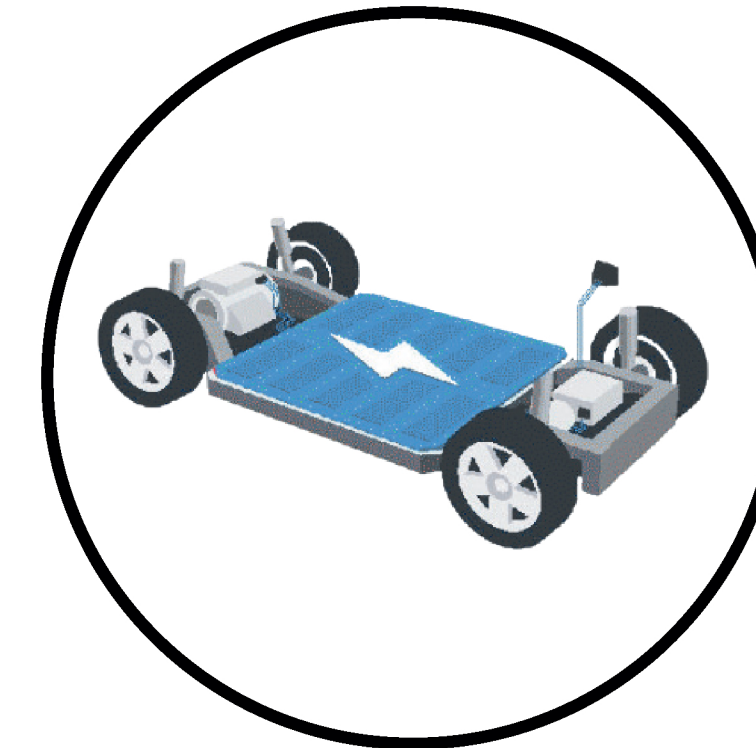
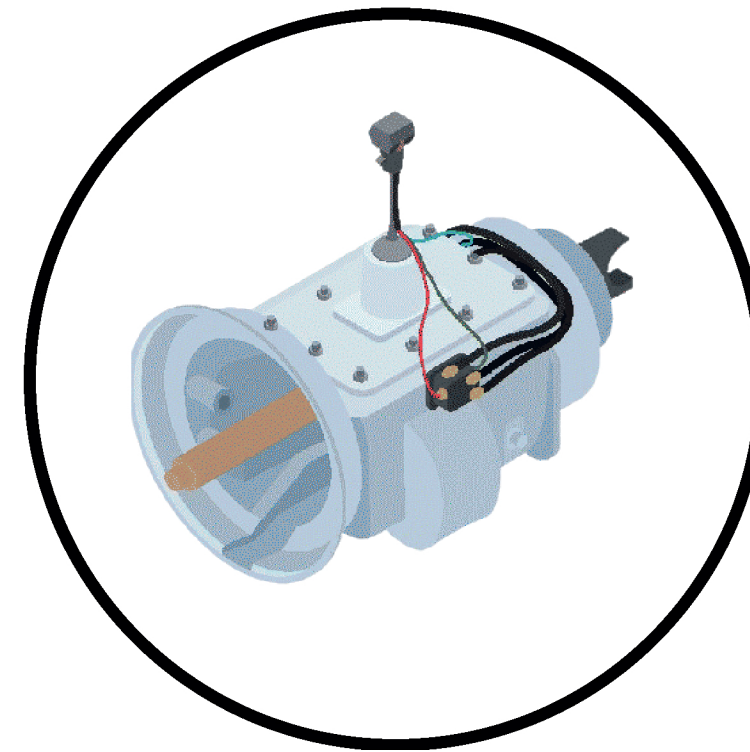
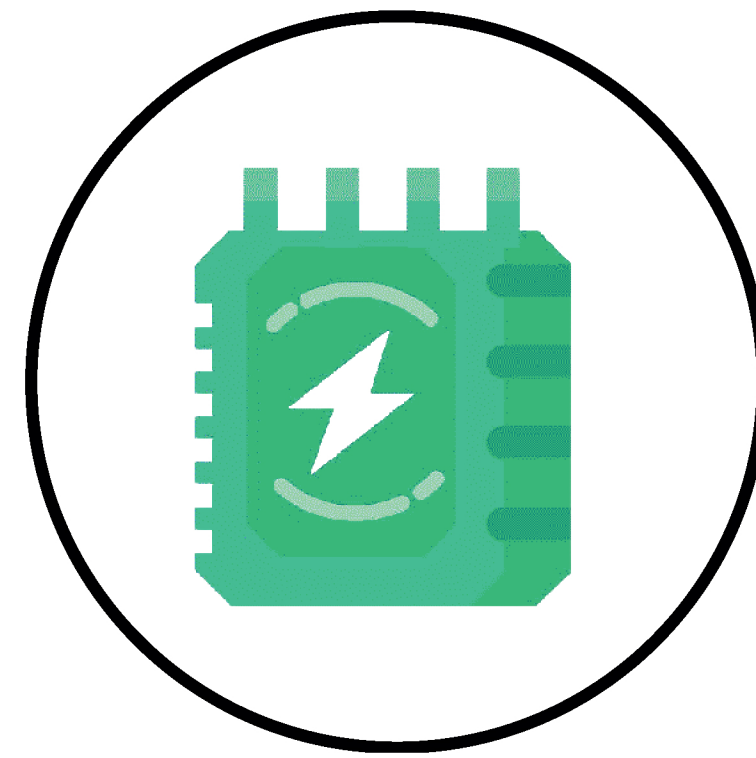
EV BATTERY

The battery is like the 'fuel tank' of an EV and will generally be located in the chassis.

INVERTER

This is an important part of an EV, as it converts electricity from AC to DC to store in the battery, and then back to AC to be used in the electric motor. The inverter an EV has will impact the amount of time it takes to charge up the battery.

AC = Power from the wall.
DC = Power stored in the battery.



BATTERY CHARGER

EVs have a battery and charger built into them. This is where you'll plug in to recharge.

ELECTRIC MOTOR

The motor is what turns the wheels of an EV. Depending on the EV model, there may be a single motor, or multiple motors.



2026
bZ