

#939 Motor Swap

Make sure the car's power is switched off. The LED should not be lit.

On Position

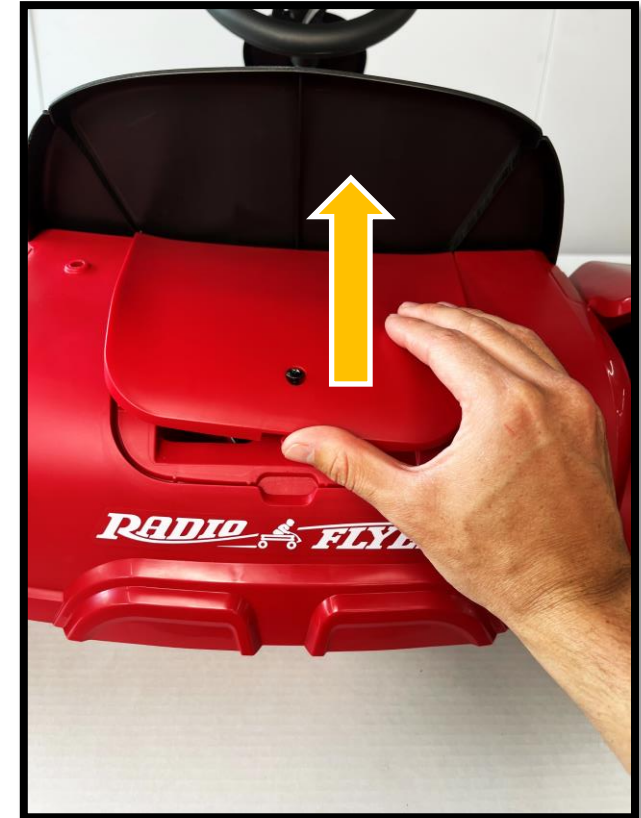


Off Position

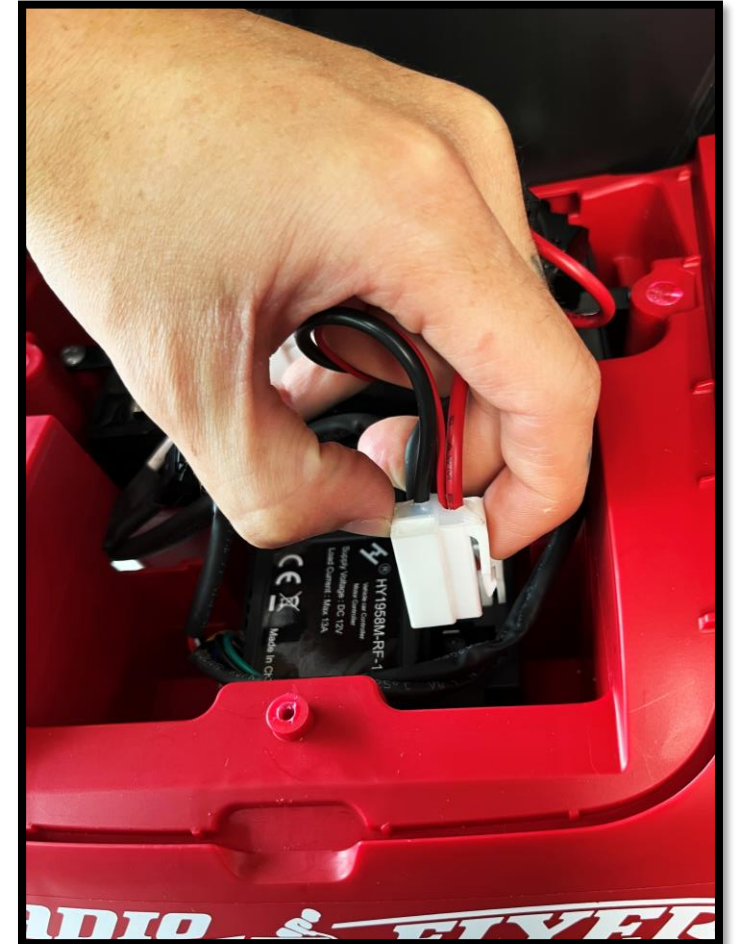
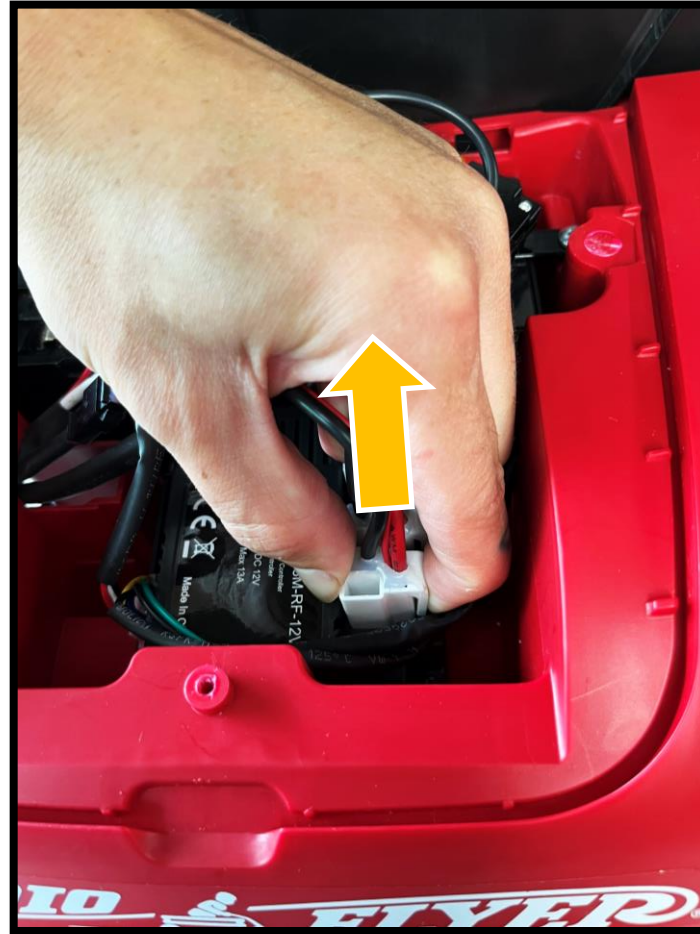
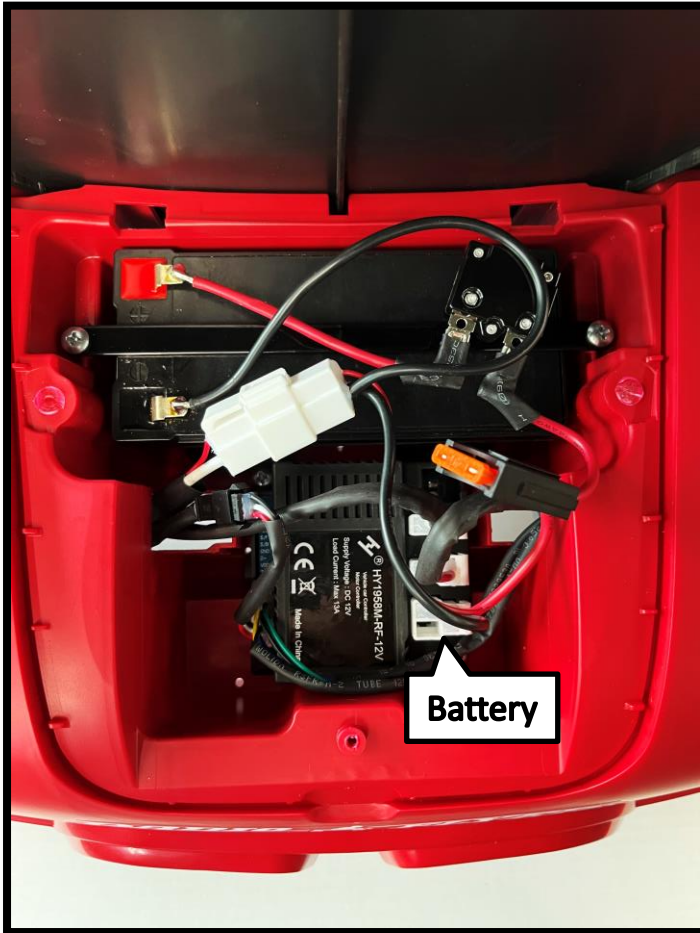


Use a Phillips head screwdriver to remove the screw to the panel at the rear of the car.

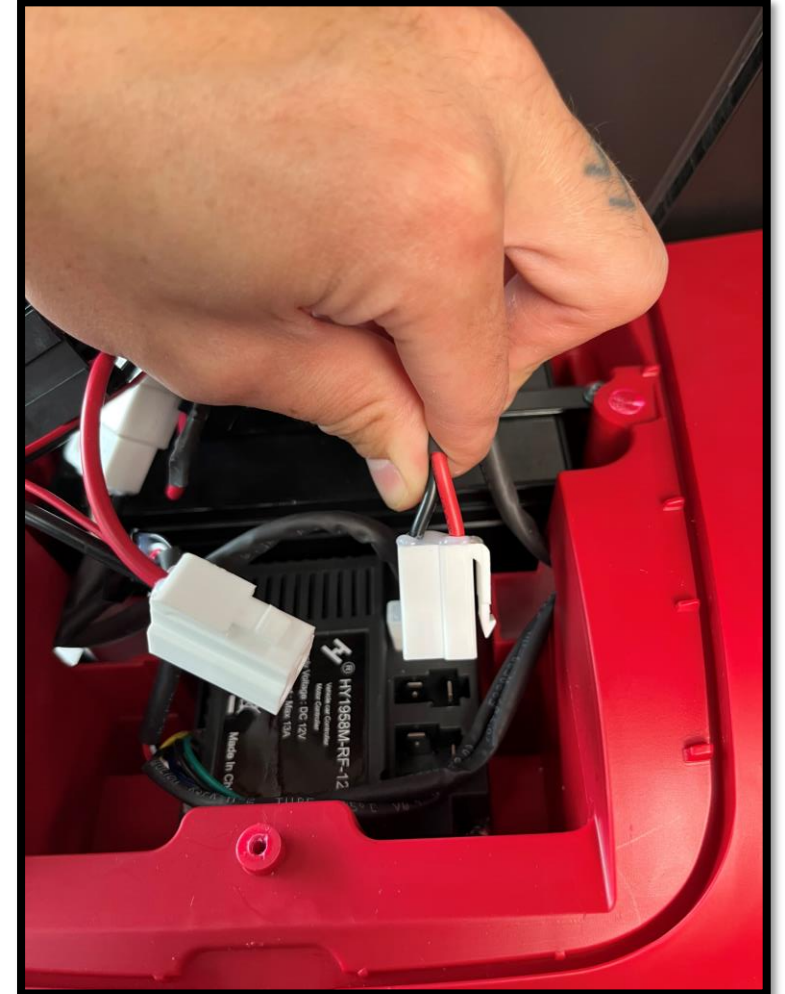
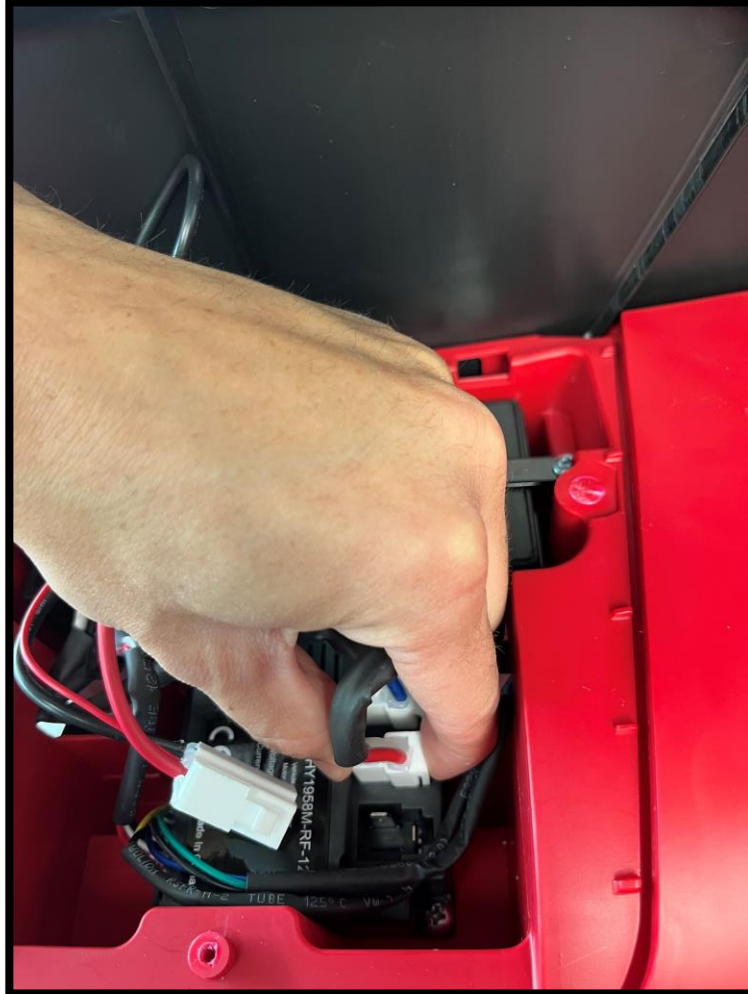
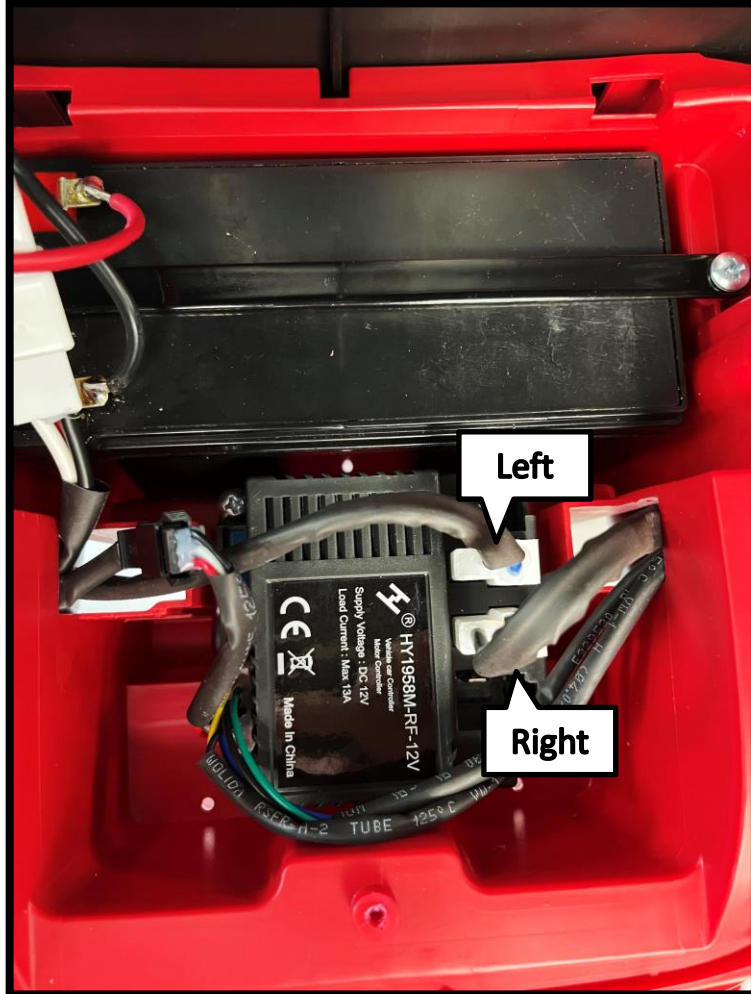
Lift the panel free.



Disconnect the battery from the PCBA. Push the lock tab and pull up on the connector.

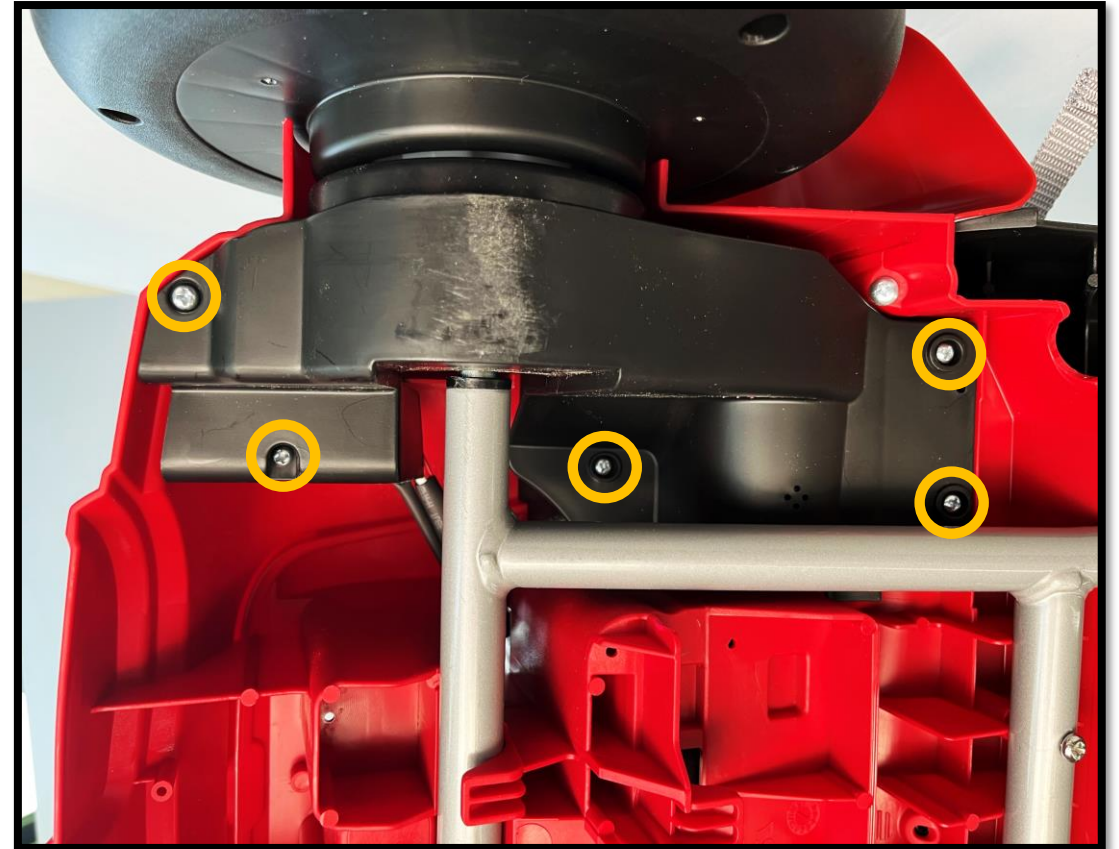
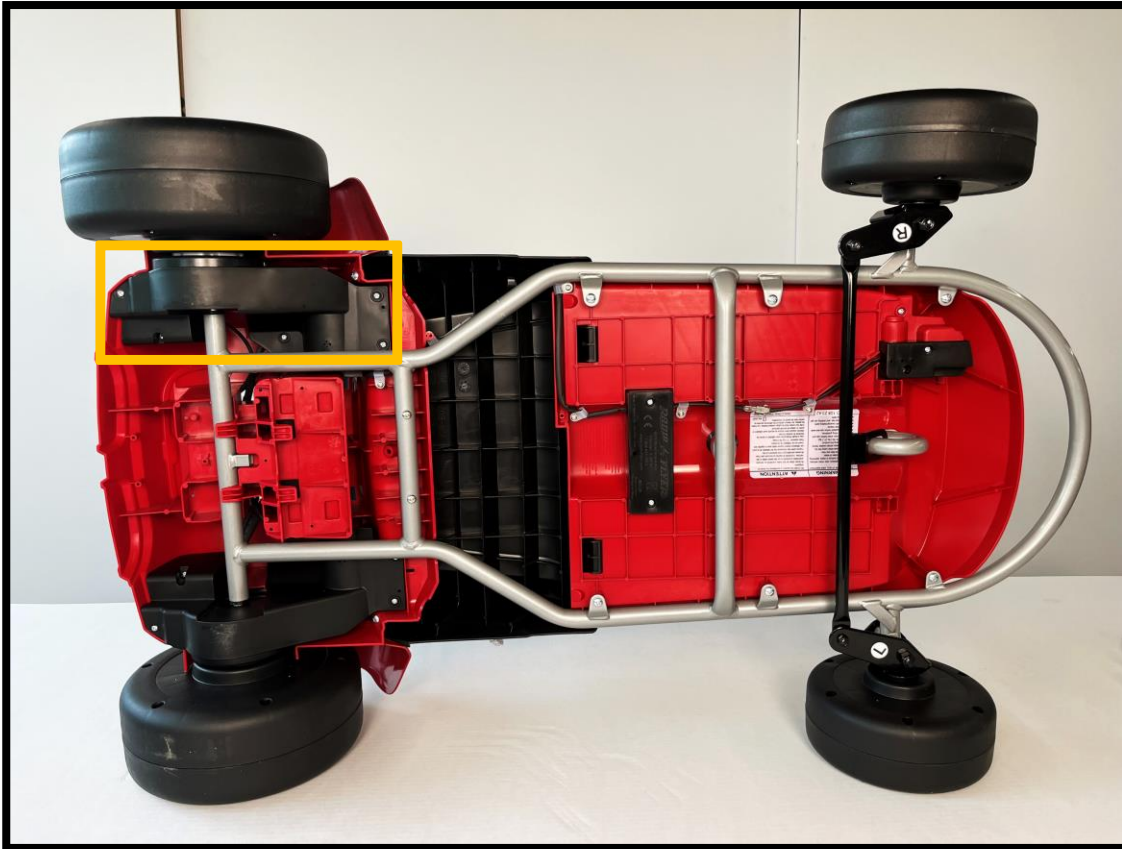


Disconnect the motor you are replacing from the PCBA.



Flip the car on its side.

Remove the 5 screws securing the motor cover in place.



Rotate the cover to remove.



Flip the car upright. Use a flathead screwdriver to pop the cover of both rear wheels.



Use a wrench to remove the axle nut on the side on which you are replacing the motor.

Use another wrench to hold the nut on the opposite in place.



Remove the wheel on the same side which the motor is being replaced.

Remove the opposite wheel along the axle.

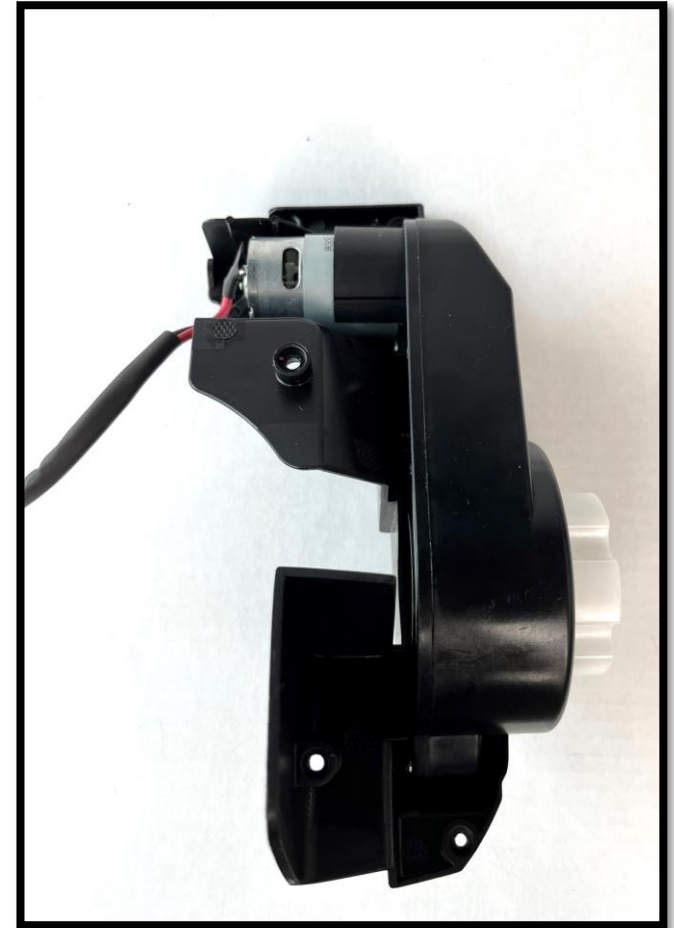
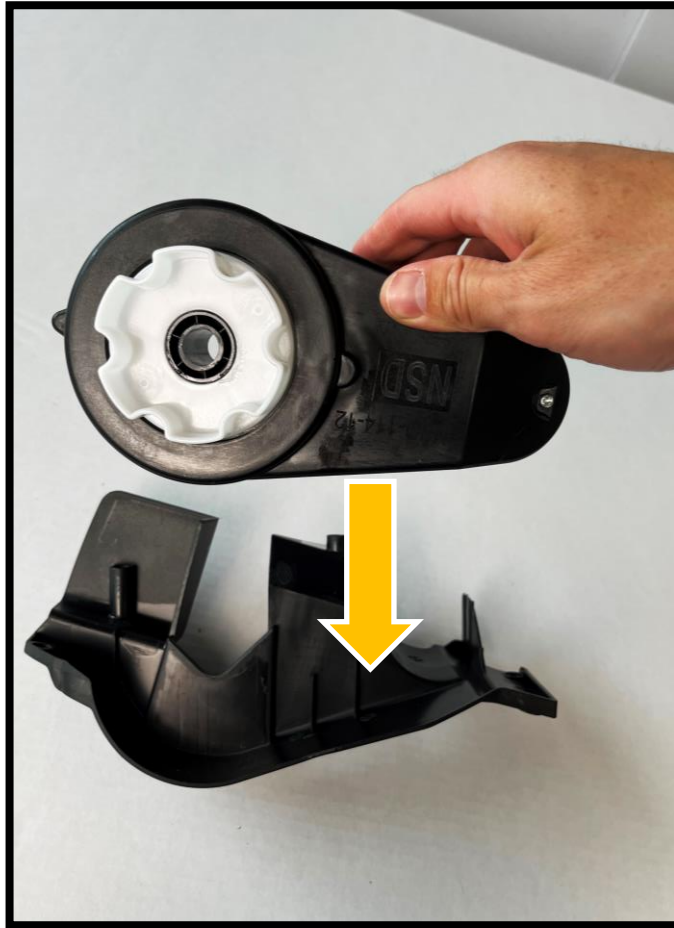
Prop up the back of the car with one of the rear wheels.



Once the axle has been removed, the motor and cover should drop out.



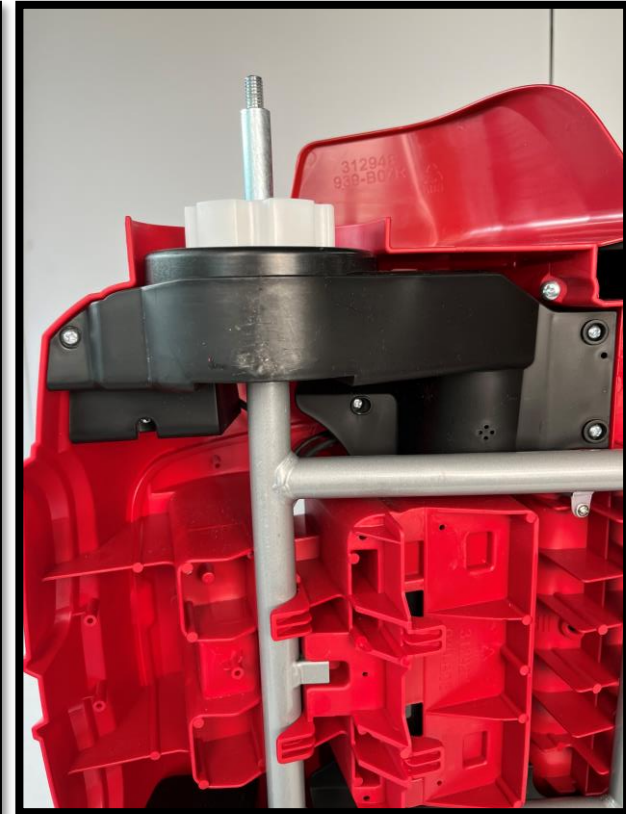
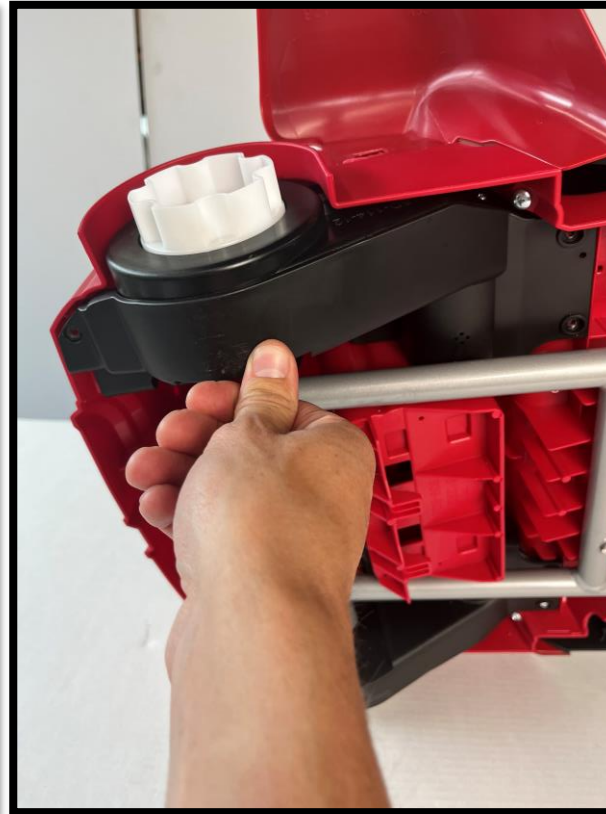
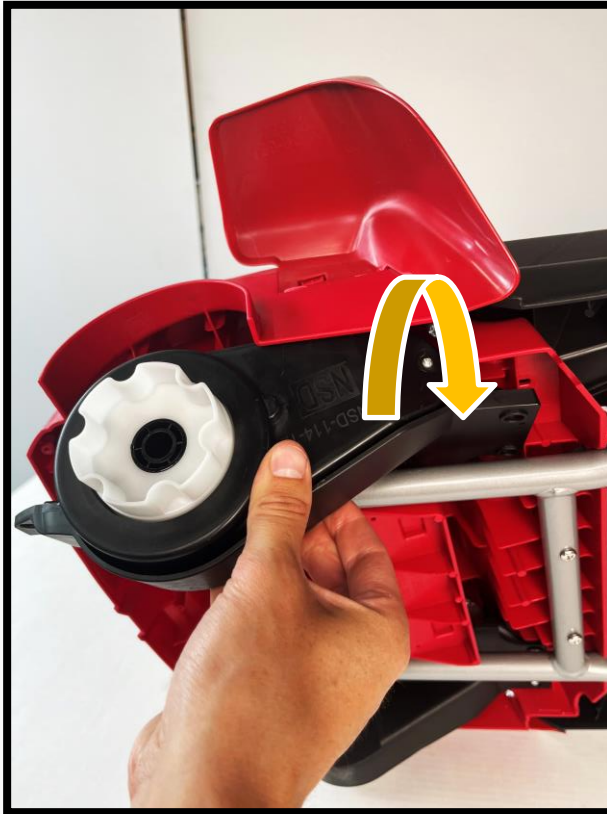
Insert the new motor into the motor cover.



Route the wire from the new motor through the opening into the rear bin.

Install the new motor into the car.

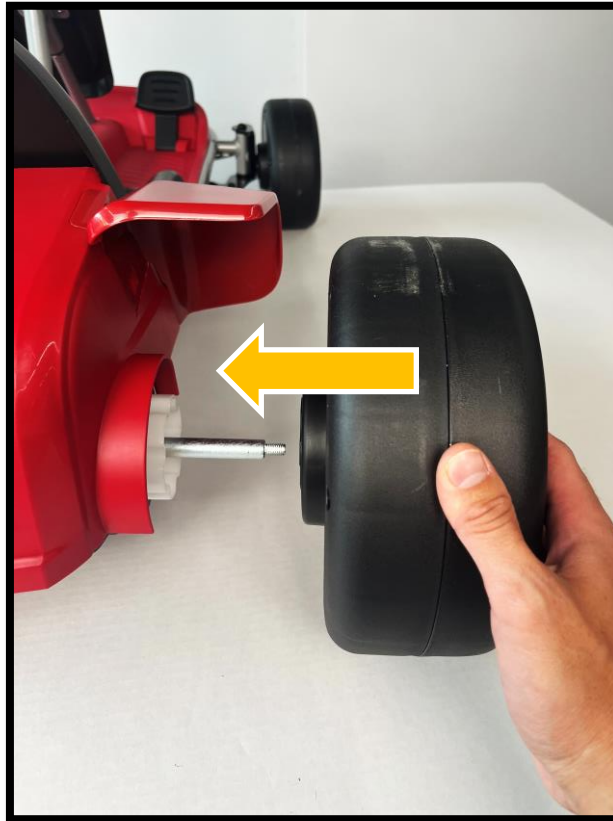
Fasten the motor cover in place with 5 screws.



Flip the car back upright.

Slide the rear wheel with the axle into the frame of the car.

Slide the other rear wheel over the axle on the opposite side. Capture with washer and lock nut.

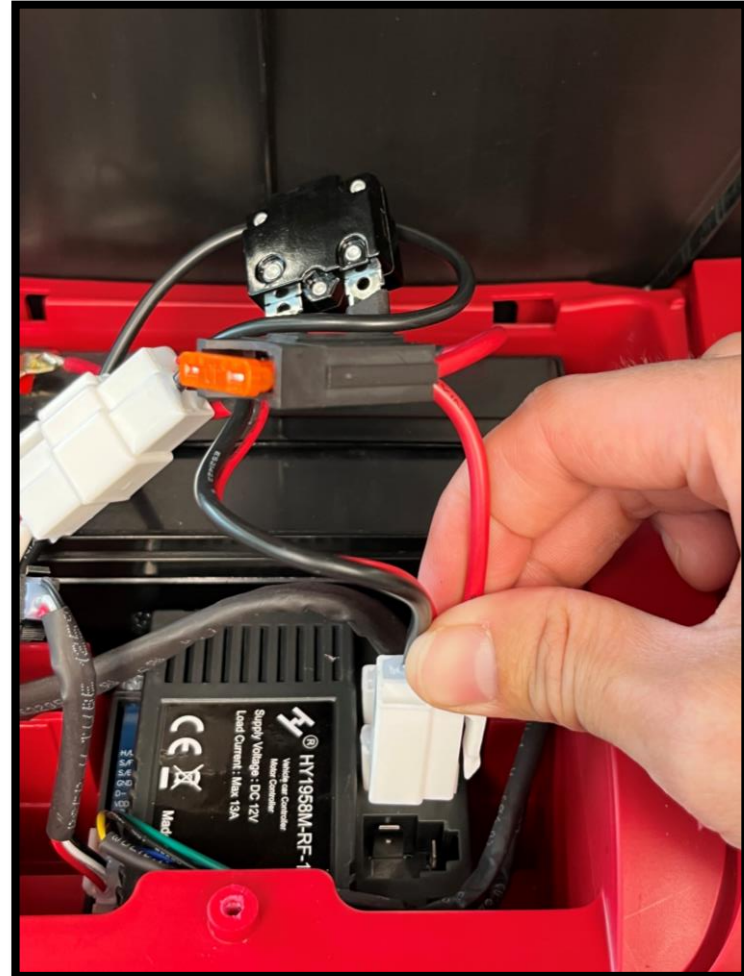


Use a wrench to tighten one of axle nut while using a second wrench to hold the opposite nut in place.

Install the wheel covers on both rear wheel by pressing firmly in place.



Connect the motor to the PCBA, then reconnect the battery.



Return the panel for the rear bin and secure with a screw. Be sure the 2 tabs are aligned with the slots just behind the seat.

