

Replacing the motor and the ESC and configuring the ESC on Flying Fish, 1:10 model vehicle

DEM-002

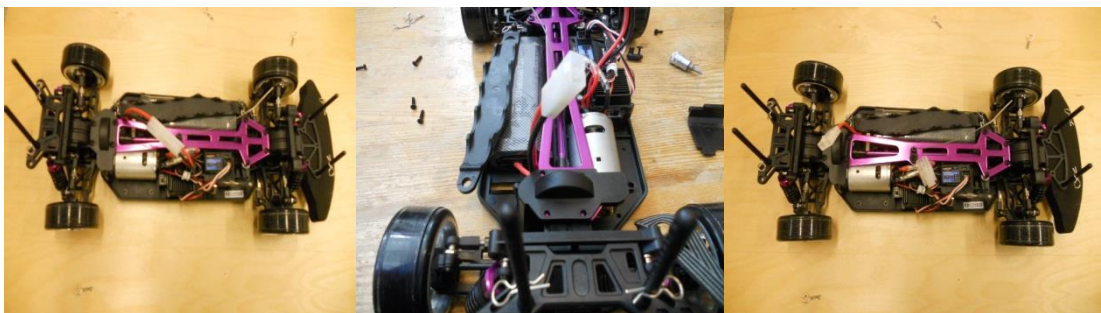


A- Replacing the motor and ESC

- 1- Open the pins of the shell and remove the shell.



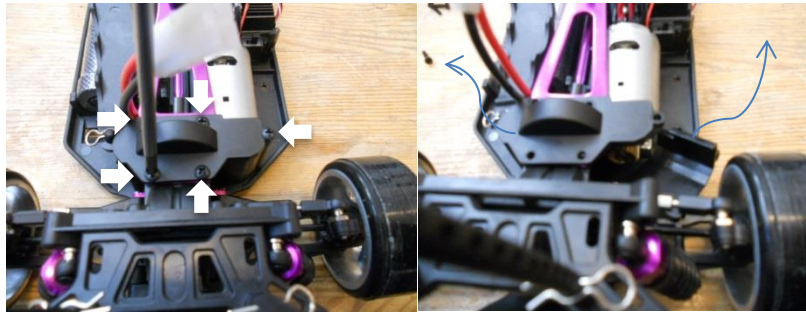
- 1- Disconnect the battery, open the pins of the battery holder and remove the battery.



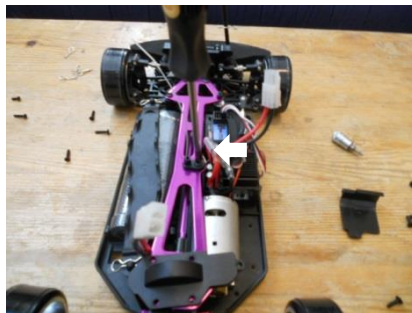
- 2- Loosen the four screws of the axle as it is shown in the picture.



- 3- Loosen the five screws of the gearbox and release the walls.



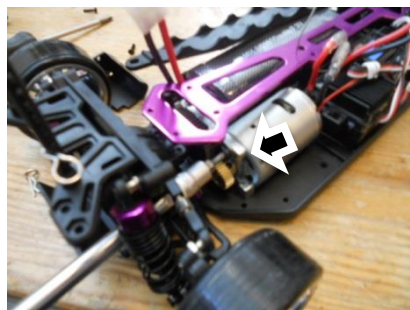
- 4- Loosen the screw of the radio tray



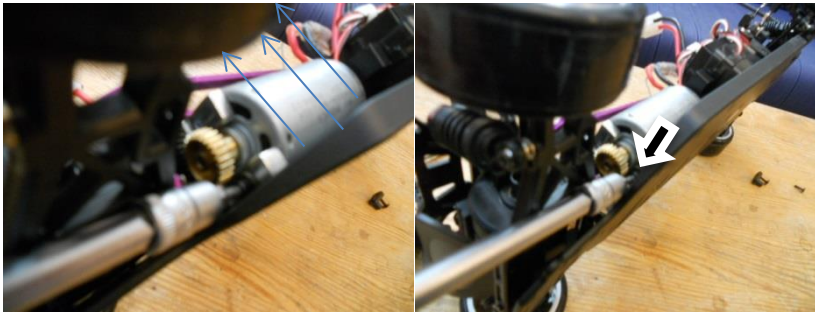
- 5- Motor has 2 screws. In order to be able to open the motors' screws you need a special screwdriver that is shown in the picture.



- 6- Firstly loosen the motor's upper screw.

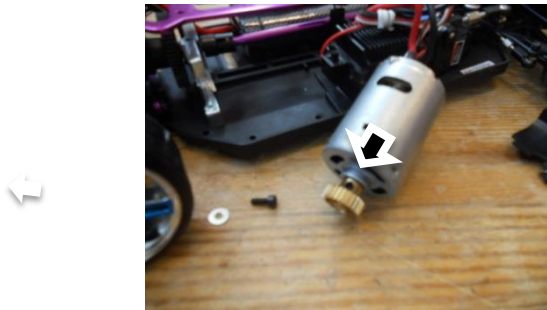


7- Pull the axel carefully by one hand and loosen the motor's lower screw by the other hand.

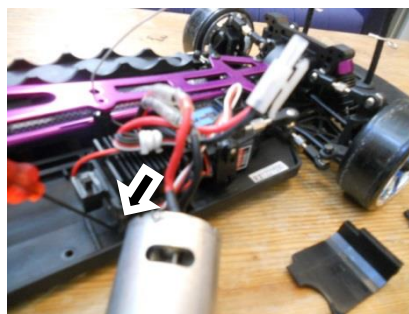


8- Remove the motor.

9- Loosen the screw on the motor's gear and remove the gear.



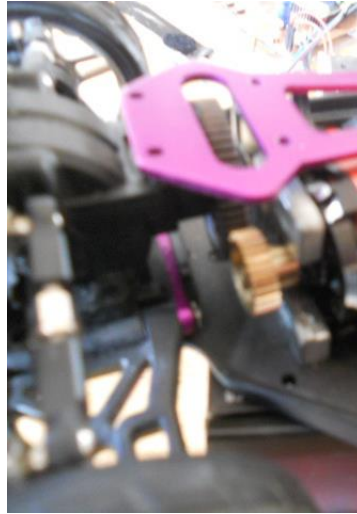
10- The old ESC is attached to the chassis by glue. Simply remove the ESC by using a screw driver carefully.



11- Put the gear on the shaft of the new motor and tighten the screw of the gear. The screw should be on the side of the shaft that has the edge.



12- Put the motor in the motor holder in the way that the gear of the motor and the gear of the vehicle's shaft mesh.



13- Remove the power female connection from the old ECS's wires.

14- Solder two wires to the new ESC power wires (the black and red wires connected to the ESC) and install it on the female power connector. These wires will be connected to the voltage converter.

15- Tighten the wires in the female power connector.

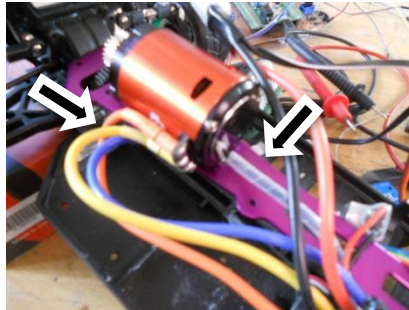


16- Install the fan on the top of the ESC.



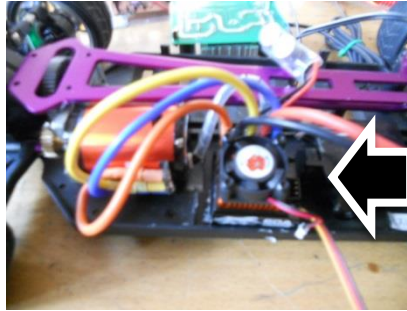
17- Connect the fan's wires to the ESC.

18- Connect the sensor connector in the back of the motor. To the ESC.



19- Connect blue, yellow and orange wires on the ESC to the right connectors on the motor based on the color.

20- Put the ESC on the chassis behind the motor in the way the power button of the ESC seats on the opposite side of the motor and the motor.



21- Use the heat glue to attach the ESC on its place.

22- Use the heat glue to attach the small board connected to ESC beside the ESC.

23- Test the motor if it is in the exact in the right place. Try to rotate the back two wheels of the vehicle and see if the motor's gear rotates well and there is no any noise.

24- Tighten motor's screws.

Note: The motor's screws should not be tightened too much. Try to rotate the motor with the code on slow speed. It should rotate with a very low noise.

25- Install the walls of the gearbox and tighten the screws of the gear box.

26- Tighten the screws of the radio tray.

27- Tighten the screws of the axel.

B- Configuring the ESC

1- Turn off the ESC

2- The program card should be connected to the connector beside the power switch on the ESC.

Note: The wires should be connected to the pins in the correct order. Connect the yellow wire to the (S) pin, the red wire to the (+) pin and the brown wire to the (-) pin on both ESC and the program card.



3- Turn on the ESC to apply power to both ESC and Program Card.

4- All the current settings will be displayed on the correspond LEDs.

5- Press and release button to move between settings.

6- Press and hold button to change the value for that setting.

7- Adjust settings as it is in the picture.



8- Turn off the ESC and disconnect lead from Program Card.