

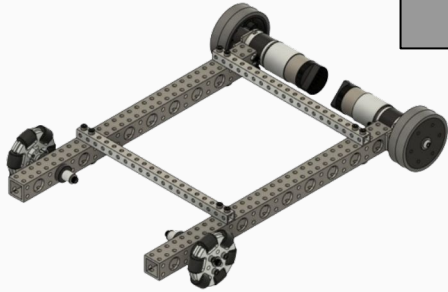
The background is a solid blue color with a repeating pattern of white icons. These icons include various electronic components like gears, resistors, capacitors, and integrated circuits, as well as tools like wrenches, pliers, and screwdrivers. The pattern is dense and covers the entire background.

# AndyMark Electronics Setup Guide



# Parts

# Parts List



Your Robot



Slim Battery



SPARKmini (x2)

XT30 Power Distribution Block



## Parts List (contd.)



DC-DC Converter

RadioLink T8S Wireless  
Controller



JST VH 2-Pin Joiner Board x 2



R8EF Receiver



## Parts List (contd.)

Switch (Optional)



## SPARKmini Cable Differentiation



Black - PWM/Servo Port

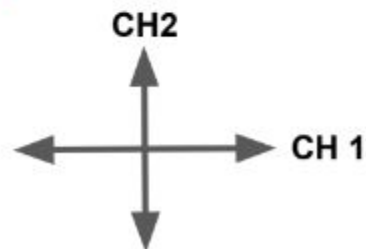
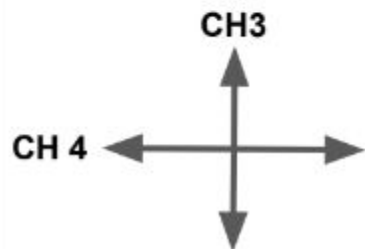
Yellow - Power/XT30

White - Motor/JST VH

# Transmitter Channels

**CH7** - 3 way switch  
**CH8** - dial

**CH5** - 3 way switch  
**CH6** - button







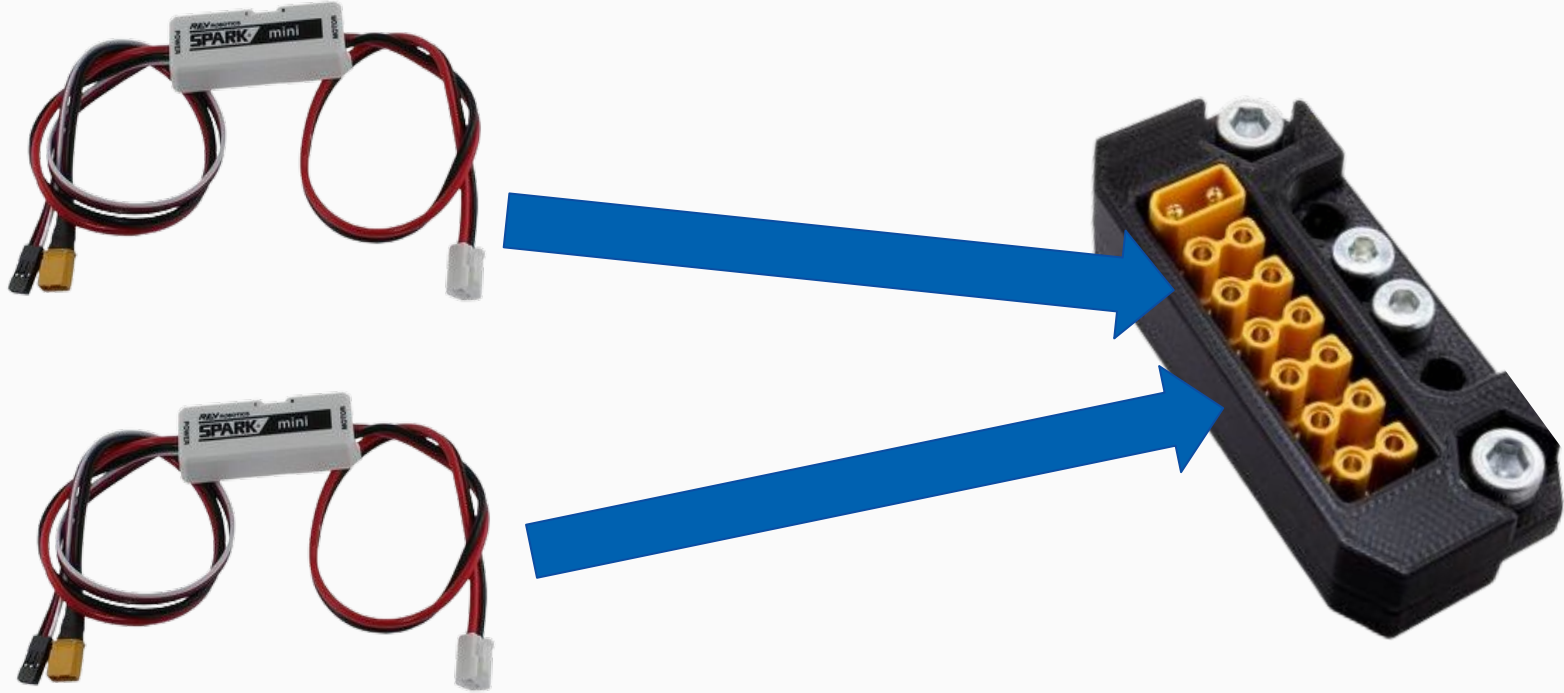
# Instructions



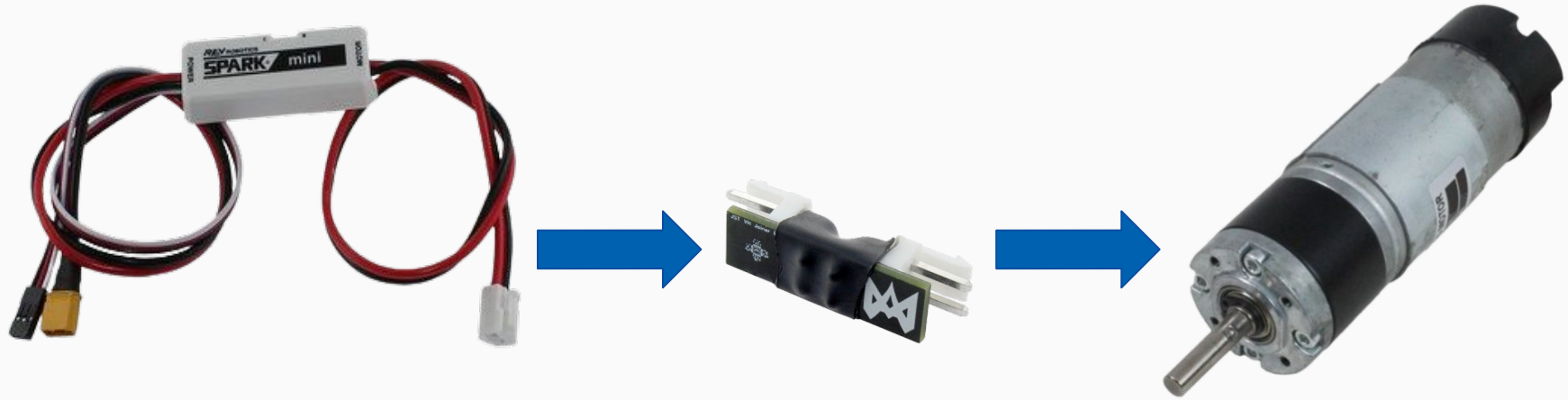
## Step 2: Connect the battery to the male port on the XT30 Power Distribution Block



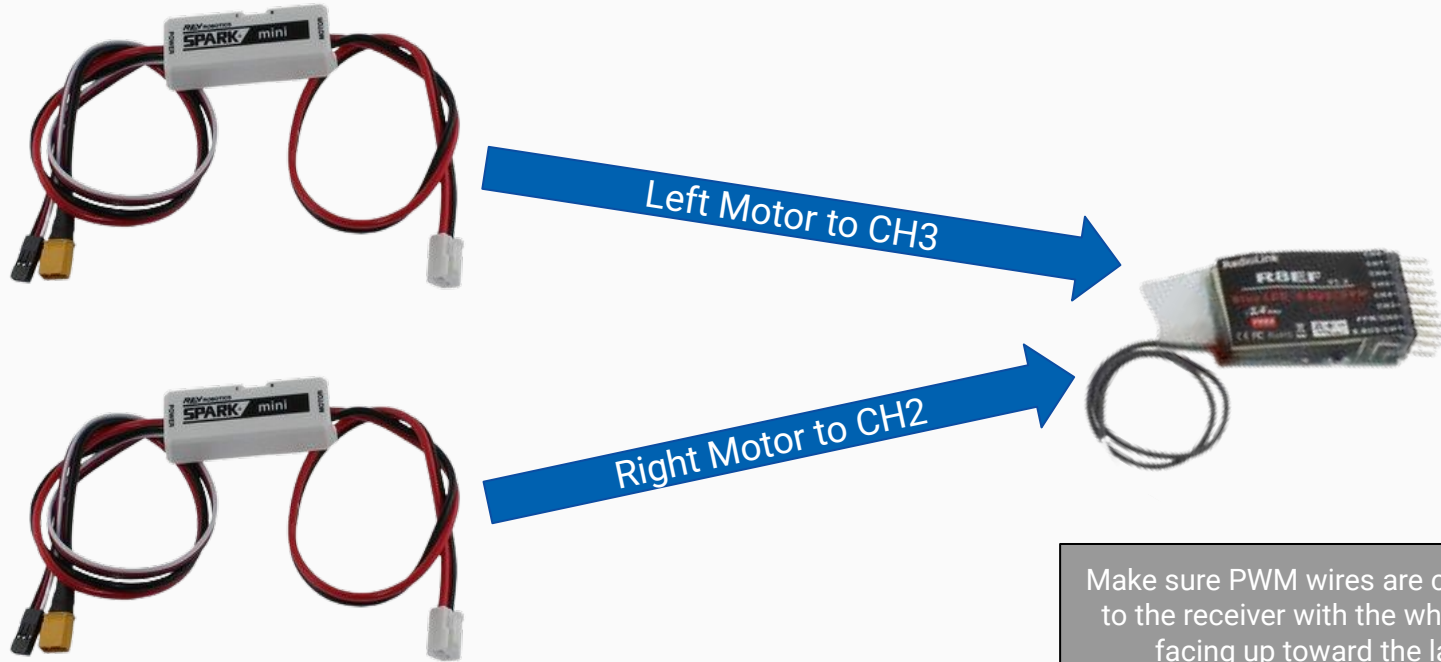
**Step 2: Connect the power cable from the SPARKminis to any open female port on the XT30 Power Distribution Block.**



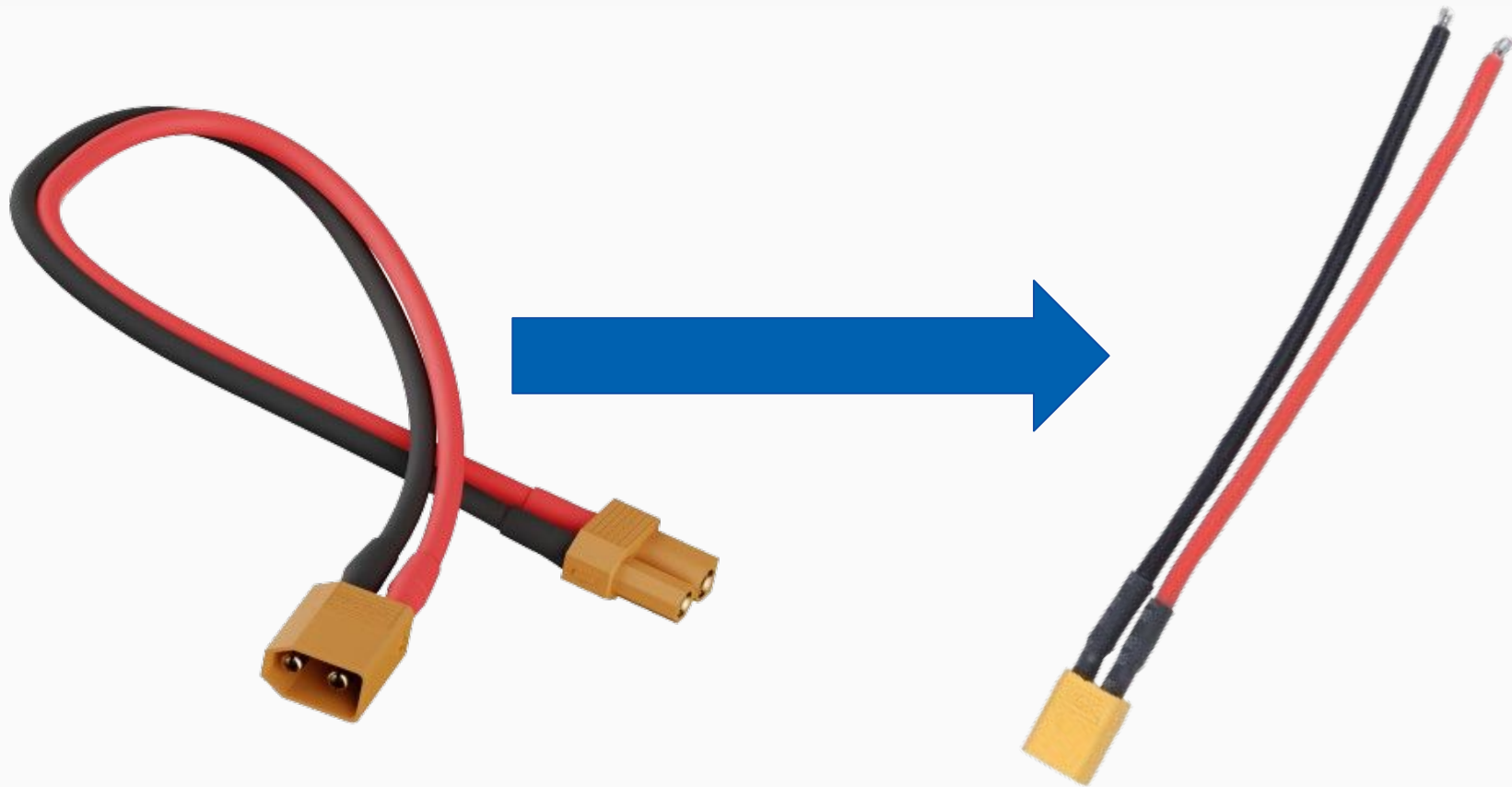
**Step 3: Using a JST Joiner Board, connect the motor cable from the SPARKminis to the motors.**



## Step 4: Connect the PWM wire from the SPARKminis to their respective ports on the receiver.



**Step 5: Prepare an XT30 connector cable by removing the female end. Snip and strip both the power cable (red) and the ground cable (black). Skip this step if cables are already prepared.**

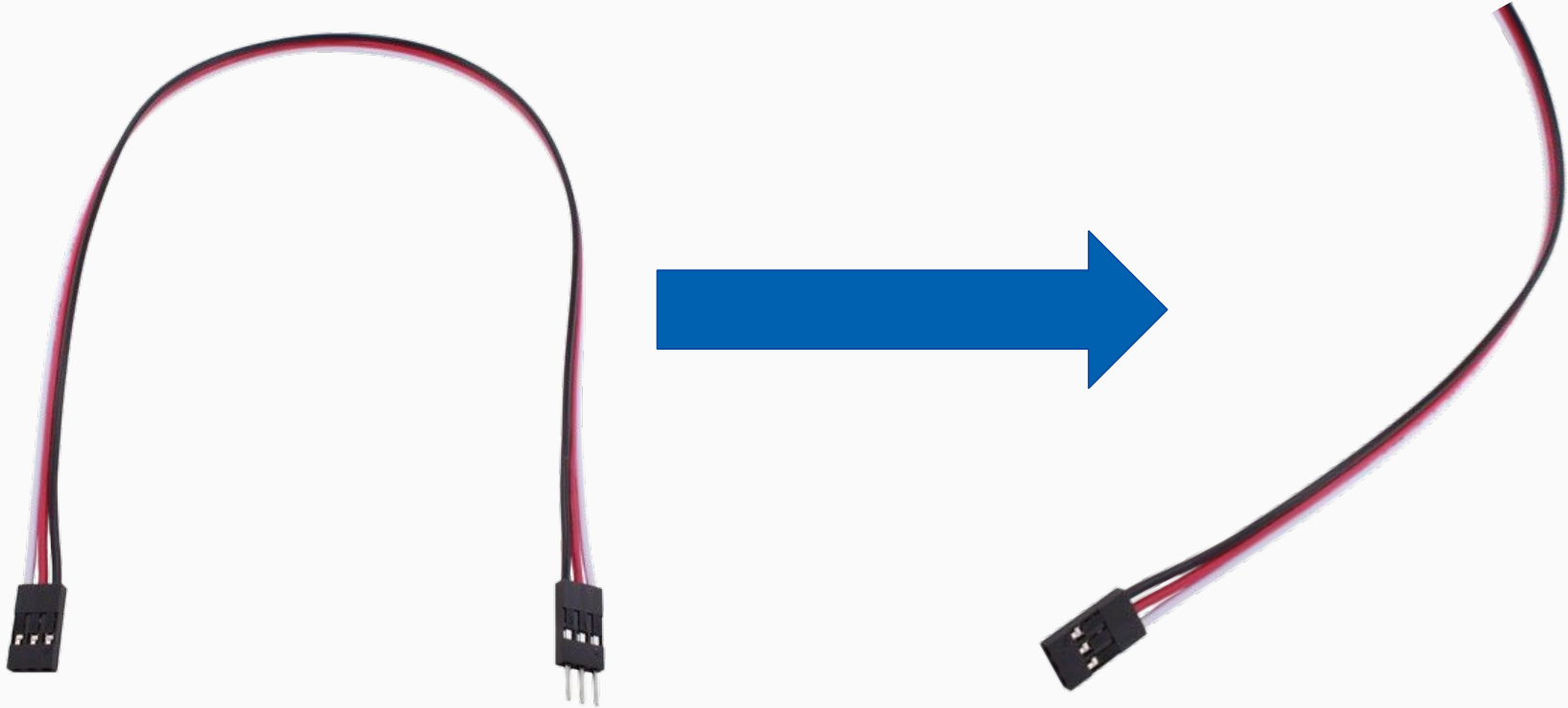


**Step 6: Unscrew both ports on the Input side of the DC-DC converter. Connect the ground cable (black) to the negative port, and the power cable (red) to the positive port. Once in place, tighten the screws on both ports.**

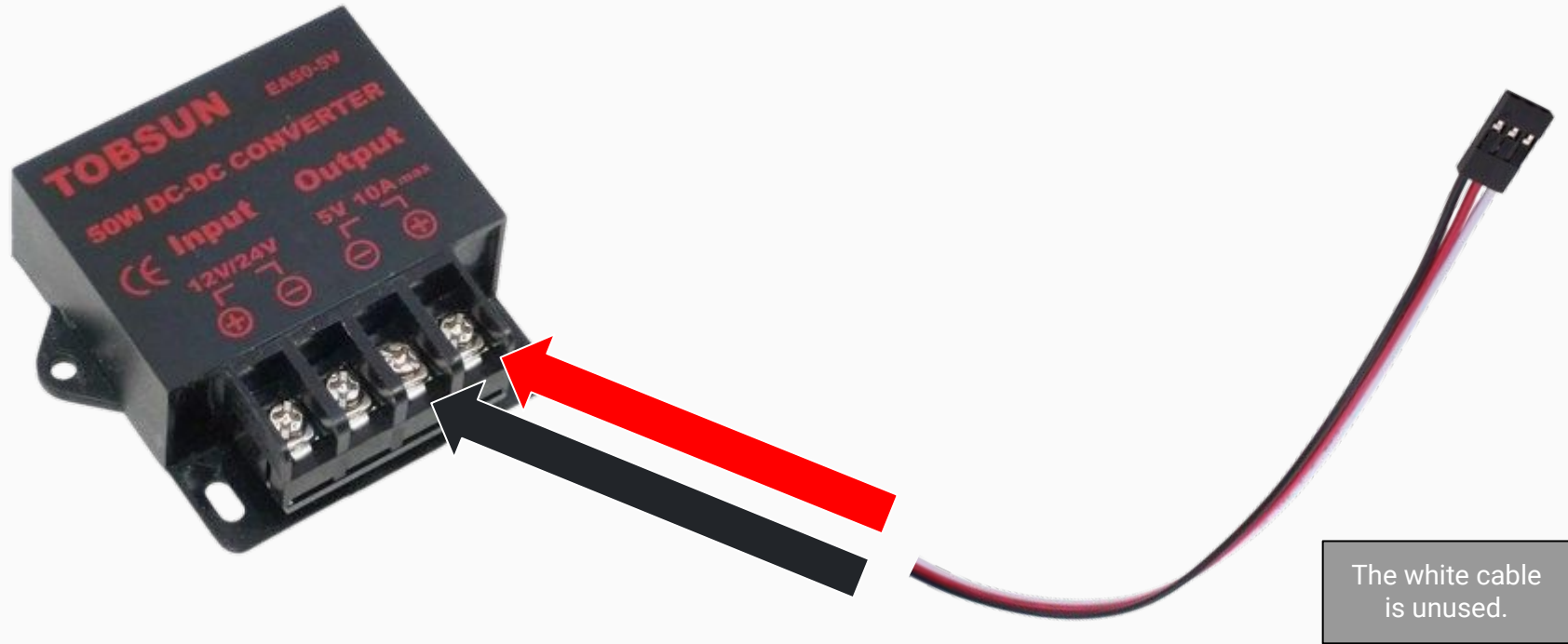




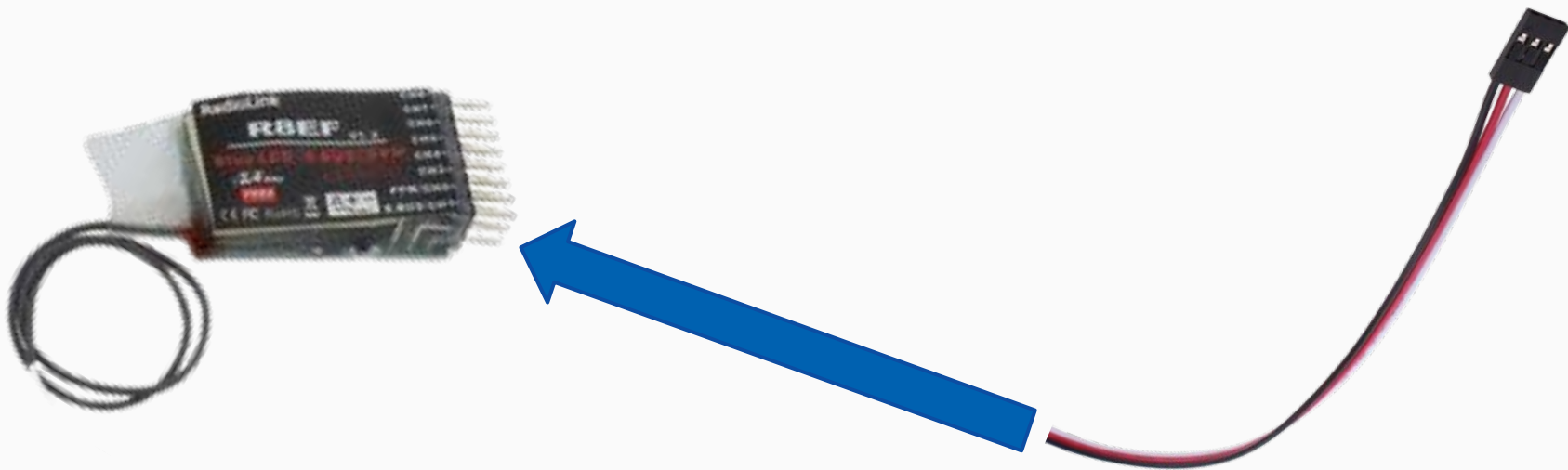
**Step 7: Prepare a PWM connector wire by removing the male end. Snip and strip both the power wire (red) and the ground wire (black). There is no need to modify the white wire as it will not be used. Skip this step if wires are already prepared.**



**Step 6: Unscrew both ports on the Output side of the DC-DC Converter. Connect the ground cable (black) to the negative port, and the power cable (red) to the positive port. Once in place, tighten the screws on both ports.**



**Step 7: Plug the PWM cable from the DC-DC Converter into CH1 on the receiver, making sure the white wire faces the label**



# **That's it!**

**Your electronics are completely set up! To make sure everything is working, power on your RadioLink Controller and begin to move the joysticks. Keep in mind that your robot uses tank drive, so the left joystick controls the left motor and the right joystick controls the right motor. Don't forget to secure your electronics to your robot using cable ties and other hardware.**