

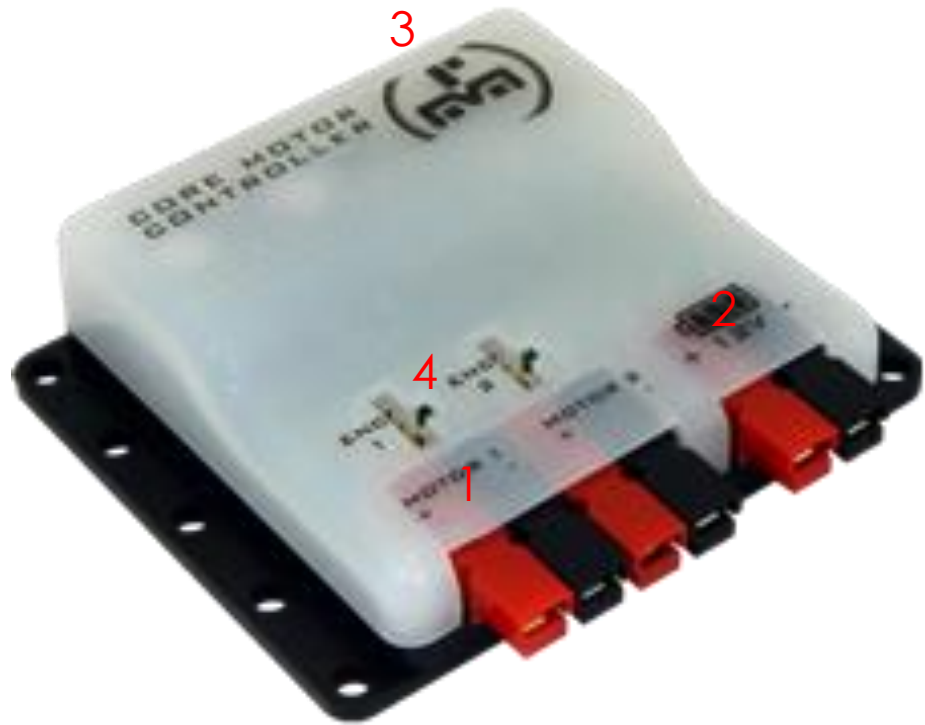
FTC WIRING INSTRUCTIONS WITH MODERN ROBOTICS

FTC Electronics 2017



POWER DISTRIBUTION MODULE (PDM)

- ▶ It is the brain of the robot
- ▶ 1. The black and red ports are called Anderson connectors, they give power to the motors.
- ▶ 2. The USB ports at the back give commands to each motor. (Order matters)
- ▶ 3. The black switch is the power switch to the robot
- ▶ 4. The yellow tab is the fuse that protects the electronics
- ▶ 5. Connect to the battery
- ▶ 6. This mini-USB port connect to the phone



MOTOR CONTROLLER

- ▶ Each motor controller controls two motors
- ▶ 1. The Anderson connectors that says motor 1 and 2 connect directly to the motors
- ▶ 2. The Anderson that says 12V connect to the Anderson ports on the PDM
- ▶ 3. The mini-USB port at the back connect to the USB ports on the PDM
- ▶ 4. The small port that says ENC 1 and 2 connect to the encoders on the motor if there is any

Launch

Launch the FTC app on the phone >- click the three-dots button >- Configure Robot >- New >- Scan

Plug

Plug the motor controllers into the PDM one at a time and click scan each time

Name

When you see the motor appear on the phone screen, name it exactly as the variable name in the program

CONFIGURE THE ROBOT