# Flight Controller and ESC Setup and Calibration

Your flight controller should be flashed and configured correctly at this time. If not, refer to the previous instructions.

## Flashing ESCs

Repeat this procedure four times, one for each ESC.

1. Plug in the battery to your drone
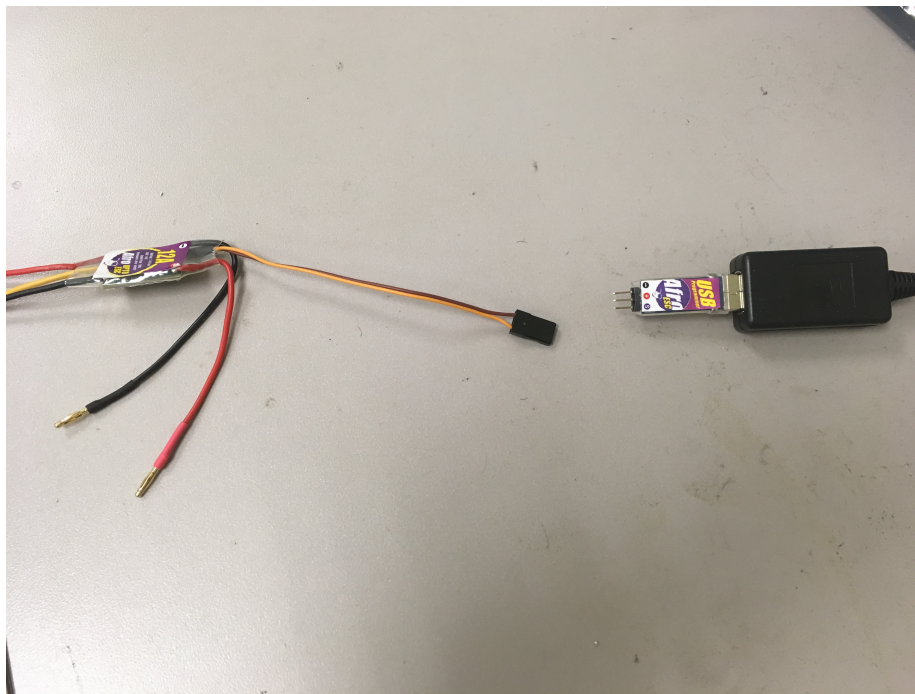2. Plug the ESC into the flashing tool



Figure 1: Not Plugged In

3. Click the "Connect" button in BLHeliSuite
4. Click the "Read Setup" button
5. When prompted to flash your ESC, click "Yes"
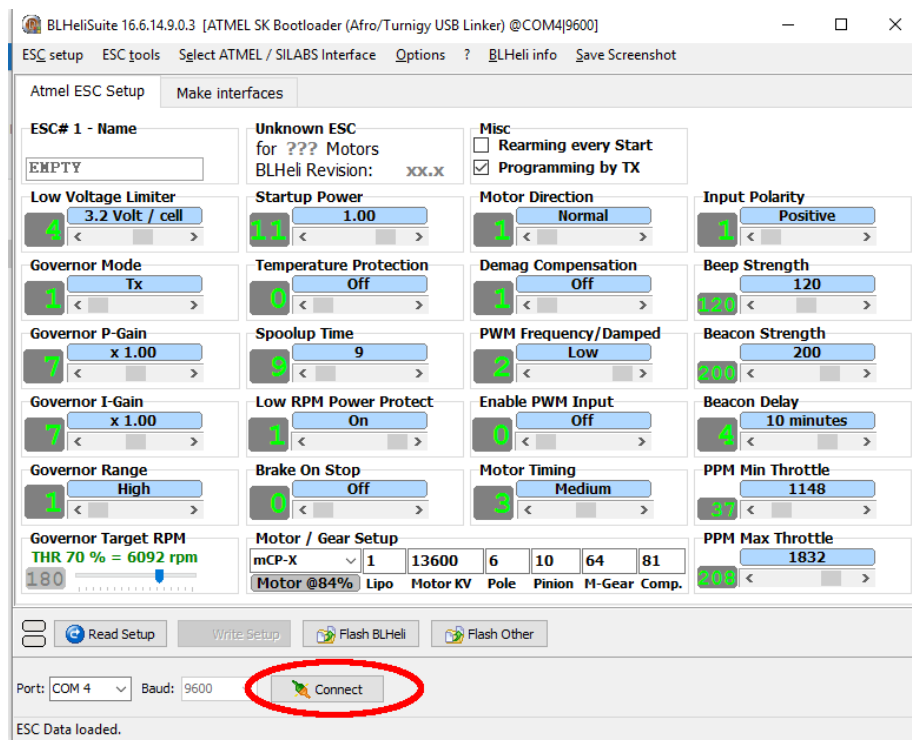6. A window will appear, notifying you that you are flashing the ESC

Figure 2: Plugged In
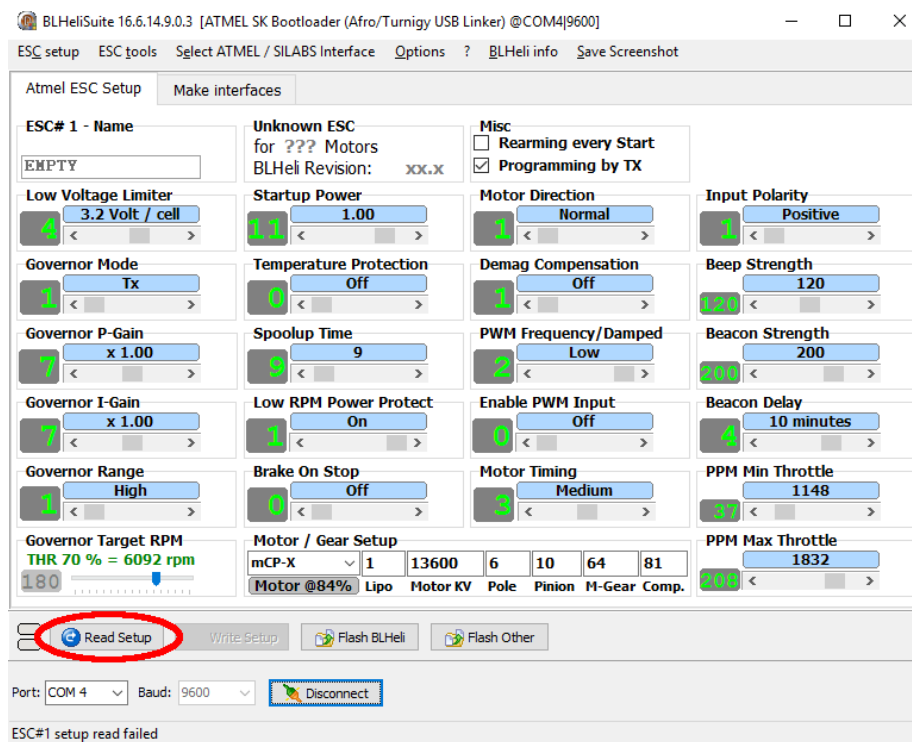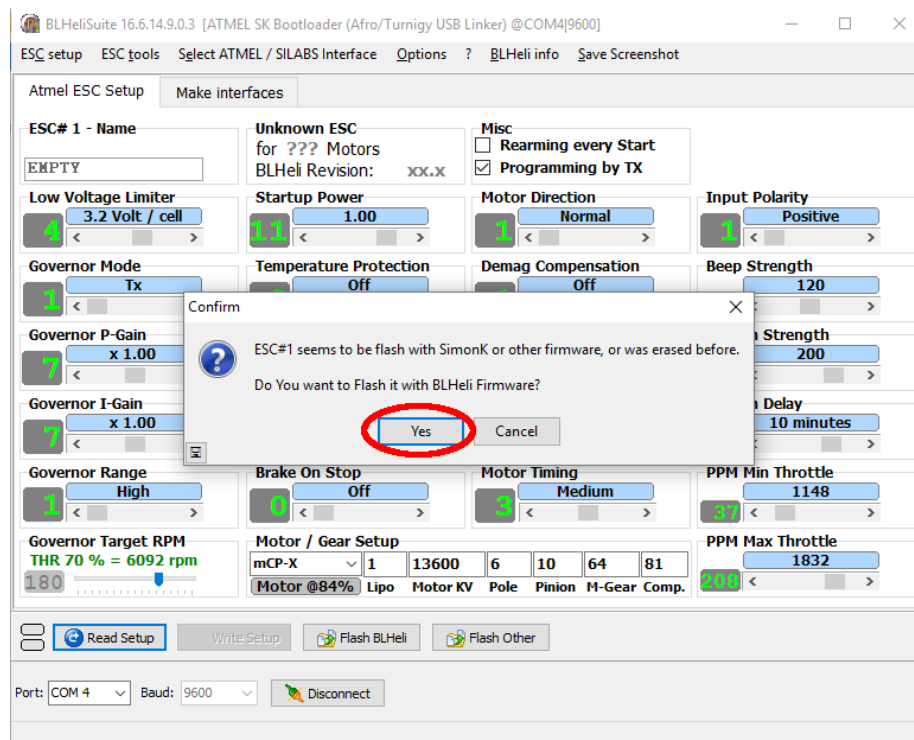
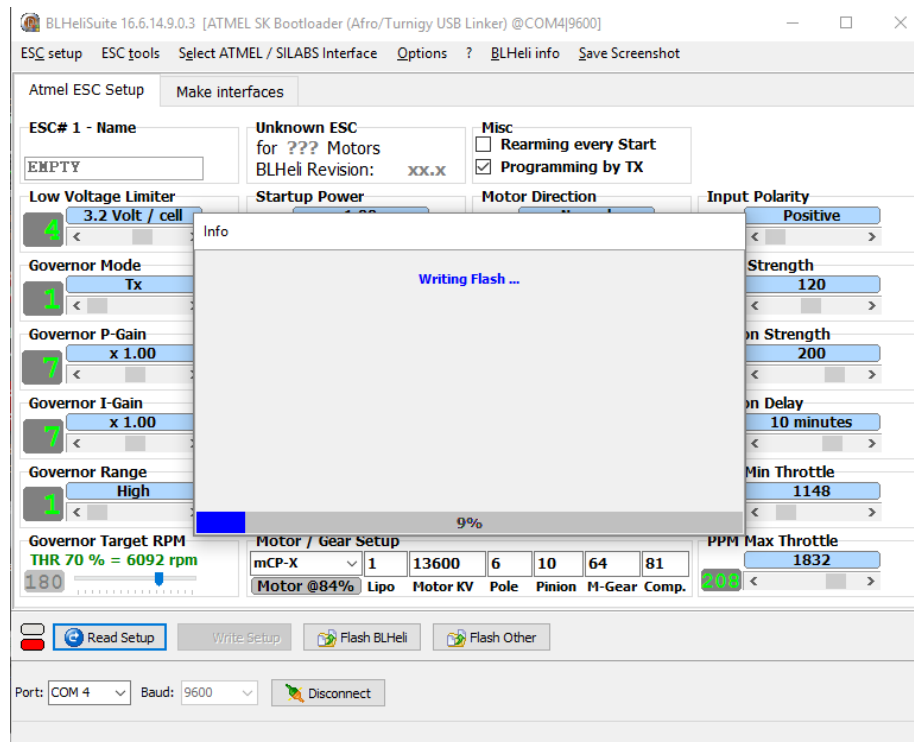Figure 3: Click Connect

Figure 4: Read Setup

Figure 5: Flash ESC

Figure 6: Flashing ESC

7. When finished, a window will appear, notifying you that the ESC has properly been flashed. If there are any errors, call over a TA. Click "OK" to dismiss the window.
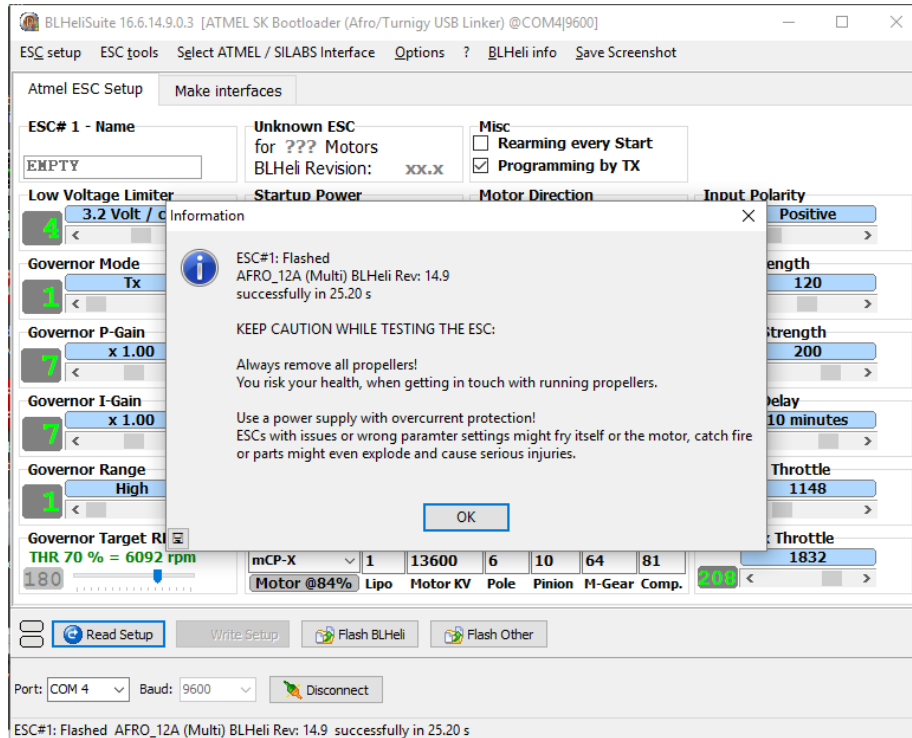


Figure 7: Successful Flash

8. A window will appear notifying you that the ESC setup has been read successfully. Click "OK", "Disconnect", and plug the ESC back into your Skyline.

## Calibrating ESCS and checking ESC Direction

With all ESCS plugged correctly into the Skyline battery unplugged, and propellers not attached:

1. Connect to the Skyline as you did earlier

2. Go to the "Motors" tab

3. Enable the motor control

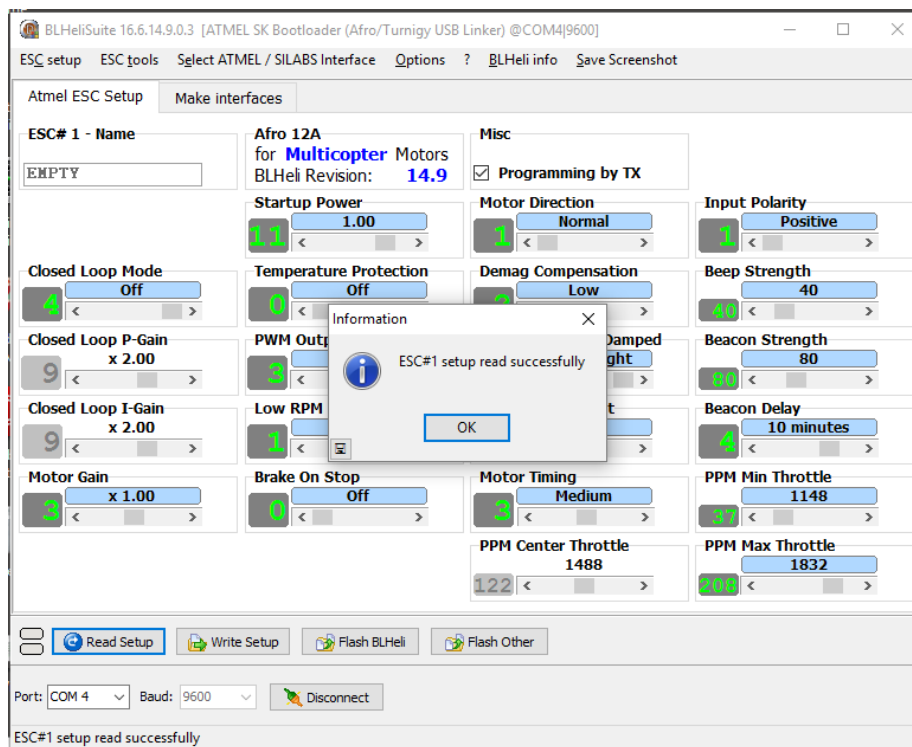4. Bring the "Master" slider from 1000 to 2000.

Figure 8: Successful Read

5. Plug in your drone. You should hear a beeping that increases in tone.

6. Once the beeping stops, lower the "Master" slider briskly from 2000 to 1000. You should hear a beeping that decreases in tone, followed by one higher note. This indicates that your ESC has been calibrated successfully.

## Flipping ESC Direction

With the battery plugged in, follow the instructions below for each motor that is spinning the wrong way:

1. Plug the ESC into the flashing tool

2. Click the "Connect" button

3. Click the "Read Setup" button

4. Move the slider underneath the "Motor Direction" so that the "Motor Direction" is "Reversed"

Plug all ESCS back into your Skyline