

Date: 21/04/2020

NEWBEE DRONE

BeeBrain Brushless ESC Flashing Guide for BLHeli_S and JESC 48kHz

WARNING, PLEASE READ BEFORE PROCEED

If you are not comfortable with flashing your ESC's please do not do it. In case of flashing the wrong firmware, it may lead to non-reversible results such as **magic smoke**.

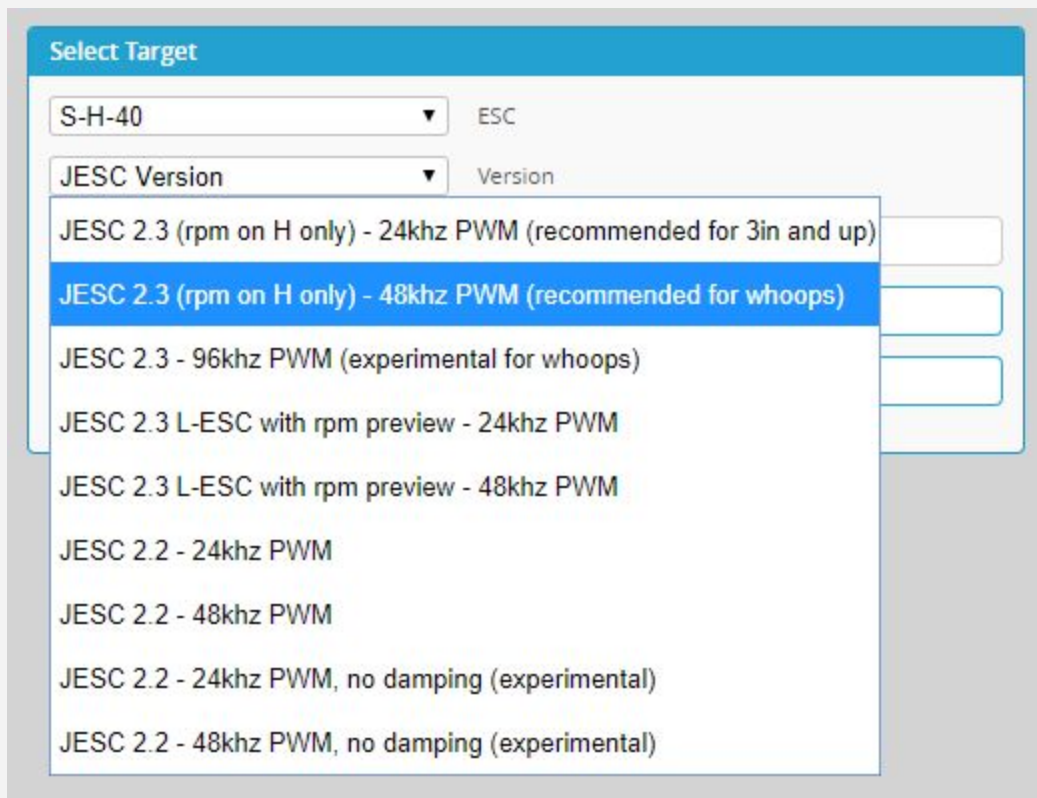
ESC LAYOUT S-H-40

Prerequisites

1. [Beebrain Brushless Flight Controller](#)
2. USB A-Male to Micro-B cable
3. PC

FLASHING JESC 48kHz

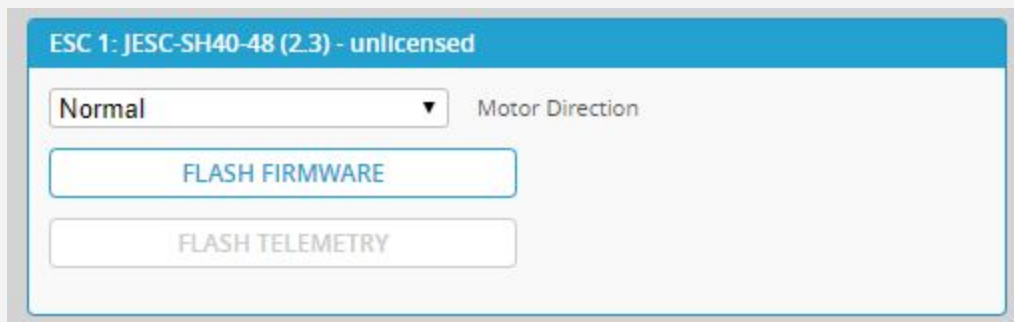
1. Download the Jesc configurator from [here](#).
2. Connect the flight controller to PC with an USB cable.
3. Open the configurator and click the Read Setup button.
4. Click the Flash All button and choose 48kHz firmware. You **MUST** use the “**S-H-40**” layout. Otherwise you can **burn** the ESC’s!



5. Once you choose the right firmware (**S-H-40 Layout**), hit the Flash button, it will start the flashing process. If you are currently using different layout than S-H-40, please check this checkbox:

☒ Ignore inappropriate MCU and Layout? (Flashing inappropriate firmware may damage your ESC, do so at your own risk)

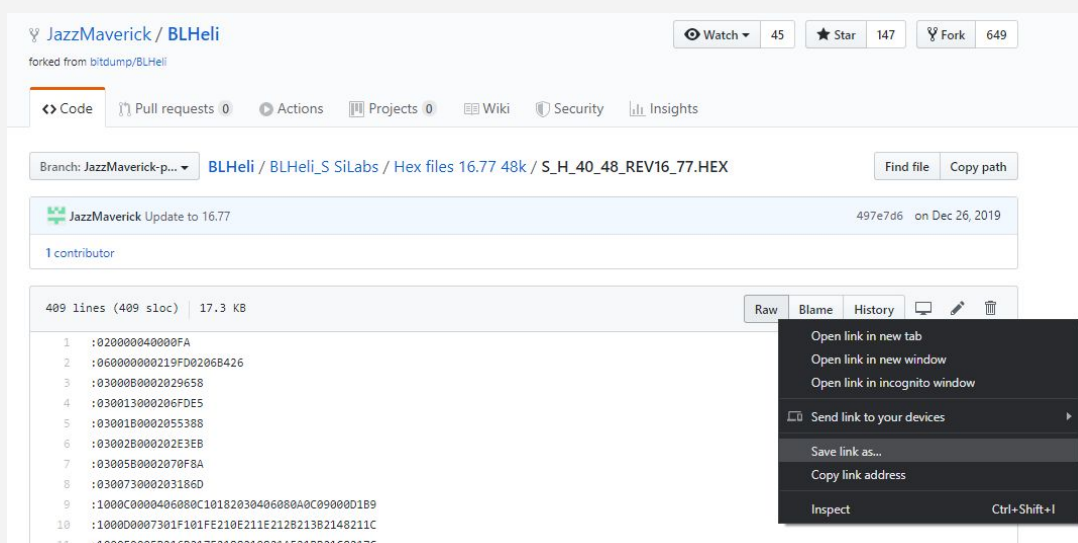
- Once you choose the right firmware (**S-H-40 Layout**), click the **Flash Firmware** button, it will start the flashing process. After finishing the process, check the firmware version to verify the operation.



NOTE: RPM Filtering needs Bi-directional telemetry. For that please check out [JESC's website](#) for licensing.

UPGRADING TO BLHELI_S JazzMaverick's 48kHz

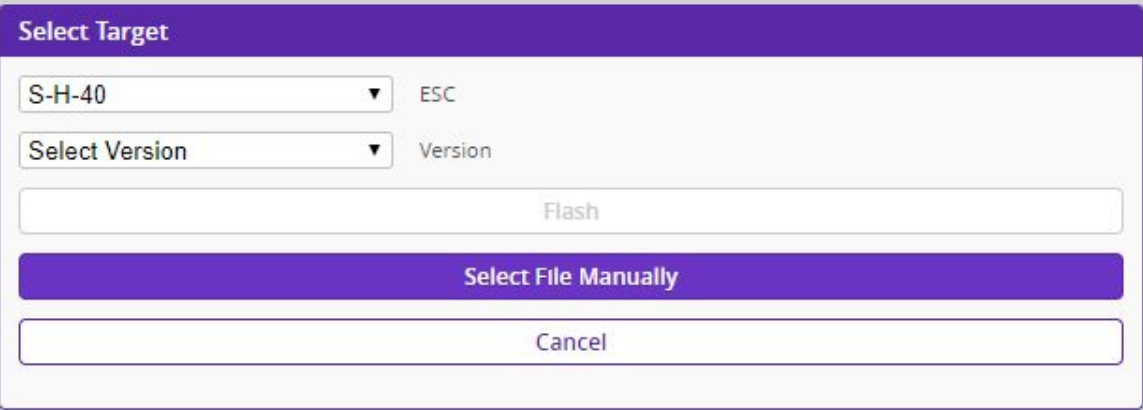
- Download and install the BLHeli Configurator from [here](#)
- Download Corresponding hex file **S_H_40_48_REV16_77.HEX** from JazzMaveric's Github page [here](#)



- Connect the flight controller to PC with an USB cable
- Press Read Setup
- Press "Flash All" button at the bottom. If you are using different layout (like S-H-X), please check this checkbox:

☒ Ignore inappropriate MCU and Layout? (Flashing inappropriate firmware may damage your ESC, do so at your own risk)

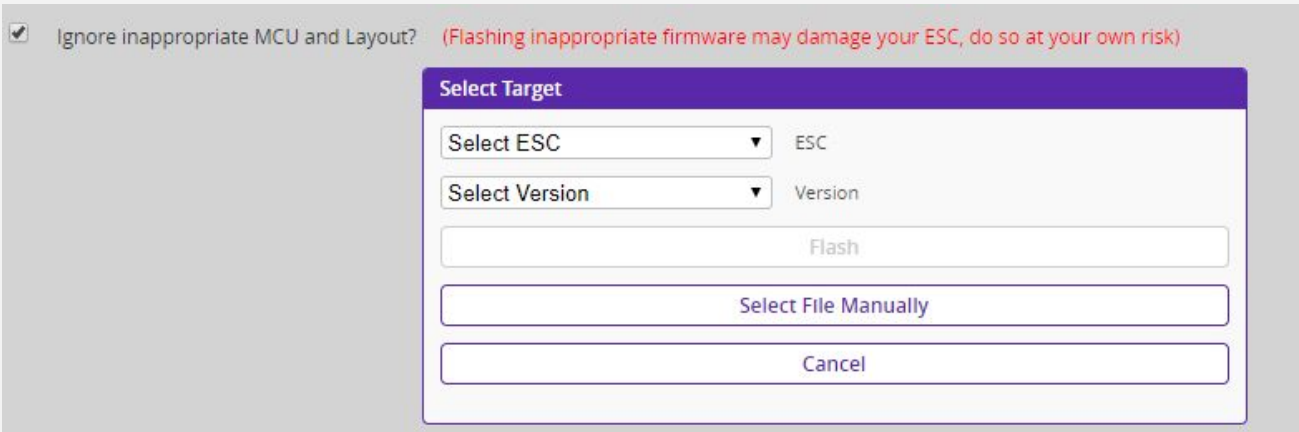
6. Press "Select File Manually"



The 'Select Target' dialog box has a purple header. It contains two dropdown menus: 'S-H-40' for ESC and 'Select Version' for Version. Below these is a 'Flash' button. A prominent purple button labeled 'Select File Manually' is in the center, with a 'Cancel' button below it.

7. Choose the right firmware (**S_H_40_48_REV16_77.HEX**) and click "Open"

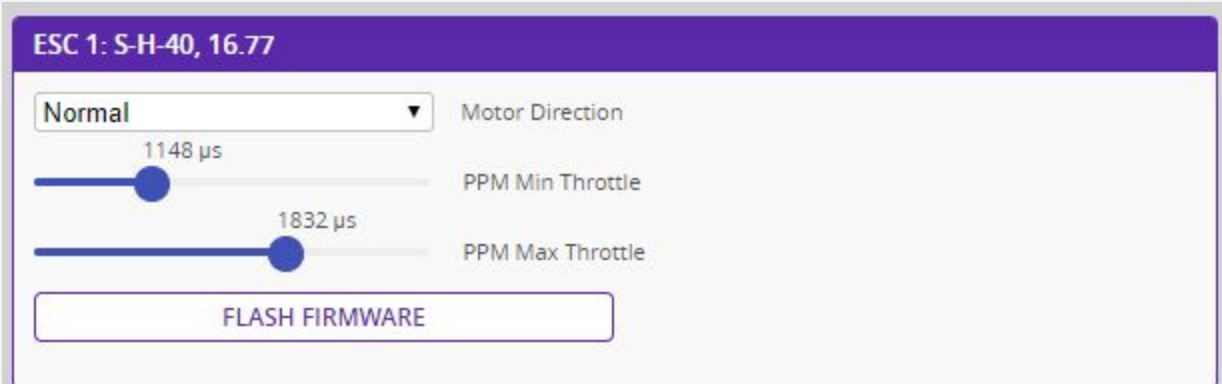
8. Verify the firmware. Done!



The main interface shows a checkbox 'Ignore inappropriate MCU and Layout?' with a red warning note: '(Flashing inappropriate firmware may damage your ESC, do so at your own risk)'. The 'Select Target' dialog box is open, showing the same controls as in the previous screenshot.

9. Choose the right firmware (**S_H_40_48_REV16_77.HEX**) and click "Open"

10. Verify the firmware. Done!



The 'ESC 1: S-H-40, 16.77' configuration screen has a purple header. It features a 'Motor Direction' dropdown set to 'Normal'. Below are two sliders: 'PPM Min Throttle' at 1148 μ s and 'PPM Max Throttle' at 1832 μ s. A 'FLASH FIRMWARE' button is at the bottom.