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## Cleanflight blheli esc calibration

just a question. The other day I was looking at blheli settings and noticed my esc's came up "not in sync" . motor 1 ppm min throttle 1.024 max was 1.824 Motor 2 ppm min throttle 1.024 max was 1.816 Motor 3 ppm min throttle 1.024 max was 1.820 Motor 4 ppm min throttle 1.020 max was 1.816 now I have always used Clean Flight Config to calibrate my esc's 1000-2000 then raised and lowered my Min/Max which ended up being 1040-1950. Since it has been raining for the past several days, I decided to update my esc's to blheli 14.5 and BetaFlight/LUX\_RACE 2.6.2, that was when I saw my esc's didnt match. my question should I still continue the esc's calibrate through CFC or use blheli suite ? Thanks in advance • Login to remove this ad | Register Here I may well do it the long winded way, but have been doing it this way for ages and always works well for me. I set up min throttle and max throttle in CF first, then do esc cal in CF, then I go into BLHeli suite and make note of all the esc's min and max. If 3 are like 1024 and 1980 and 1 is at 1020 and 1960 for example I just make sure all 4 esc's in blheli are matched, so I adjust the lower one to match the others and save and exit. • (04-May-2016, 03:17 AM)BigglesFPV Wrote: I may well do it the long winded way, but have been doing it this way for ages and always works well for me. I set up min throttle and max throttle in CF first, then do esc cal in CF, then I go into BLHeli suite and make note of all the esc's min and max. If 3 are like 1024 and 1980 and 1 is at 1020 and 1960 for example I just make sure all 4 esc's in blheli are matched, so I adjust the lower one to match the others and save and exit. Thanks Biggles, Im going to check that now, I was just curious, with the ability to use the FC to do this is great. So I have been flying with out of sync esc's for a while! • I think throttle calibration takes into consideration the possible inconsistencies between the hardware components on the escs. I know some are comfortable changing the values in blheli after calibration, but this has always had me sceptical. I would rather reduce max throttle to match the lowest max rate you see in blheli. I guess I ask myself why blheli decided upon different values, then ask myself again if I am smarter than the software • (04-May-2016, 04:03 AM)Bandook Wrote: I think throttle calibration takes into consideration the possible inconsistencies between the hardware components on the escs. I know some are comfortable changing the values in blheli after calibration, but this has always had me sceptical. I would rather reduce max throttle to match the lowest max rate you see in blheli. I guess I ask myself why blheli decided upon different values, then ask myself again if I am smarter than the software • (04-May-2016, 05:35 PM)Konrad Stepanajts Wrote: Joshua Bardwell in one of his recent videos about blheli settings mentioned about throttle deadband that ESCs have after calibration. He stated that it is a good idea to drop max throttle in FC firmware to avoid FC pushing into it. That's what I was saying. I have to do that now on blheli 14.5 and multishot, but have never read that its a good idea to change ESC settings in blheli after calibrating. Otherwise, what's the point of calibrating? You were saying that You \*match\* FC max throttle with blheli. Joshua claims that there is always a deadband before blheli max throttle (whatever the setting is) and advises to set it even lower in the FC. I tried it on one of my quads and indeed, the motor seems to stop accelerating before reaching max. This is the video I'm talking about: • (04-May-2016, 08:27 PM)Konrad Stepanajts Wrote: You were saying that You \*match\* FC max throttle with blheli. Joshua claims that there is always a deadband before blheli max throttle (whatever the setting is) and advises to set it even lower in the FC. I tried it on one of my quads and indeed, the motor seems to stop accelerating before reaching max. This is the video I'm talking about: thanks guys for the video , I must of have missed this episode. A few throttle punches in between rain drops and it looked and felt good. • #10 07-May-2016, 05:21 AM (04-May-2016, 08:27 PM)Konrad Stepanajts Wrote: You were saying that You \*match\* FC max throttle with blheli. Joshua claims that there is always a deadband before blheli max throttle (whatever the setting is) and advises to set it even lower in the FC. I tried it on one of my quads and indeed, the motor seems to stop accelerating before reaching max. This is the video I'm talking about:The point I was trying to make was that I don't believe changing values in blheli is a good idea. That's why I said "I would rather" match the max pwm value in blheli than change the blheli settings to be equal between escs. I'm a big proponent of calibrating max values as Joshua has described, and have been doing it even before he released his video due to the discussion in the Betaflight thread. Fly4props was asking if he should mess with the blheli values after calibrating in cleanflight, I say no. If anyone thinks otherwise I'd like to hear their reasoning. • #11 09-May-2016, 04:38 AM (This post was last modified: 09-May-2016, 04:38 AM by Fly4props.) the weather finally broke and I got some flying in! I followed Joshua's video and your advice, just amazing now that everything calibrated right. Thanks! • #12 09-May-2016, 09:22 AM (This post was last modified: 09-May-2016, 09:23 AM by KonradS.) (07-May-2016, 05:21 AM)Bandook Wrote: The point I was trying to make was that I don't believe changing values in blheli is a good idea. That's why I said "I would rather" match the max pwm value in blheli than change the blheli settings to be equal between escs. I'm a big proponent of calibrating max values as Joshua has described, and have been doing it even before he released his video due to the discussion in the Betaflight thread. Fly4props was asking if he should mess with the blheli values after calibrating in cleanflight, I say no. If anyone thinks otherwise I'd like to hear their reasoning. I see Your point, but consider this - when I first got my littlebees, I couldn't calibrate them (naze rev6 issue and no knowledge to solve the problem then), so I experimented and set throttle max manually to 1996 on all ESCs. It flew fine While that doesn't really prove anything and is no reason to do it this or the other way, we should consider that whether it's set by CF or manually may not have so much impact in flight. (EDIT: but please tell me if You think otherwise) But maybe I'll test it - looks like my left front motor pushes a tiny bit harder than the right. If the issue is in matching after calibration, leaving it untouched should solve it. • Sorry to post in such a short time but these ESCs are quite irritating. To calibrate these ESCs I first used CleanFlight, setting throttle to max, hear the tune, then to min throttle. Using the software, I increase throttle to see if they're calibrated properly. I'm sure they are. So I plug the receiver into the FC then plug the battery in, hear the start up jingle and then a beep. One of the ESCs have somehow uncalibrated itself and won't start up at all with the other motor which start up fine. I've also tried calibration by receiver and both above the same outcome. Please help, Mike Change your protocol to DShot, no calibration required. Hi thanks so much for the response, looking on Cleanflight, i can see that there are multiple DSHOTS to choose from, i was using PWM before as that is what my receiver uses. How do i know which one to choose from, there is 150, 300, 600 and 1200. Thanks Most 4 in 1 ESCs are fine on 600 unless they're 32 bit, then you can go with 1200. It doesn't matter if you're using PWM, PPM or sBus for your receiver, it doesn't influence DShot, which is the signal between the flight controller and the ESCs I set up the board with the DSHOT600 ESC protocol but when I start the quad up the motors still beep as if they need to be calibrated. Pls help Multishot & is faster than dshot & better IMO. Esc calibration takes 2 seconds on my phone. Are all throttle ranges the same on all esc's in blheli. thanks for the reply mozquito. im not sure how to calibrate Multishots and DSHOT will not work - the motors just carry on beeping. Not sure how to use BLHeli either so im a bit stuck here. Thanks for your help though In blheli, with props off & battery plugged in. Click connect then Read setup. 4 esc cards should come up. Then click flash all. 2 boxes @ top left will show up. Don't change the top one which is normally CH-15 or something. Just the version under it, then a list of protocols will show up. Now don't quote me on this but I think anything above 16.43 is dshot. It will say next to it anyway. I may need to update my blheli. Then once chosen Flash all job done. Just make sure what it matches in configuration tab aswell. So using the BLHeli Configurator, ive read all four of my ESCs, then clicked flash all, at this point, a tab opens saying target. I know ive got Afro 20A but do not know what mode or version to flash to the ESCs. When you read setup, it shows firmware and which version at the top of each box ex: GH-15 (firmware) 16.3 (version) You only want to update, not change version. Fast start or crazy fast start or imperial march are multishot. But there is newer versions. If you pick that top box & change it, well unless you remember what version & have it in the list. You may have trouble finding it again.

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