Kk2 pinout

So as is evident from my other posts, I decided to scratch build myself a quadcopter, which I had to take myself from literally no understanding of these things at all to being able to build one that flies properly which I did in fact manage to do. There was quite a lot of confusion thought this process, and I was not able to find a guide that really took me through all the basics in a useful way. The KK2 board is whats known as a flight controller, which is basically the brain of the quadcopter, its what takes the inputs from your controller and translates them into an output for the motors. Now its a bit more complex than this, it has gyros etc in it that will allow the copter to auto level when you lift off an input and basically will not allow you to do anything overly stupid with it. Inputs â€" This will be the connection between the receiver from your controller and the flight controller. This flight controller has 5 slots for this, with each slot having a 0v, 5v and signal connection. Voltage Monitor â€" Is exactly what it says, connect this onto the same power board or distributer the main battery is connected to, it will then display this voltage on the corner of the screen. Outputs â€" This board has 8 outputs, which can connect between 3 to 8 motors, with the 3 pins being signal, 0v and 5v. This will then connect out to the ESC Electronic speed controller and then to the motor. It also has the ability to connect up to 6 motors and 2 outputs for servos for things like camera gimbals. Navigation buttons â€" Used to navigate through the various options and menus on the screen. There are two other main things that need to be connected to the flight controller, these are the receiver, and the electronic speed controllers ESC. ESC â€" This is what controls the main motors, it is directly connected to the battery of the aircraft, and then the motors, with a signal wire that will then connect to the flight controller. This is what will provide power to the actual flight controller. Receiver â€" The receiver is basically the other end of the transmitter you hold in your hand, designs vary greatly but you can mix and match the channels to get it to do as you want. This will then connect in with the inputs to the flight controller. Connections on the flight controller from the top to bottom are as follows. In my case, using a HobbyKing transmitter and receiver, the diagram below shows how it is connected, Channel connected in the same way. Making sure each of the channels are in the correct place, which depends on your receiver. Once the receiver is connected correctly it is then time to connect up the main motors, which is the pins on the right hand side of the board. Buzzer, which is used for alarms is connected to the 2 pins top left of the board, and the voltage input in my case taken from the power distributer board for the ESCs connected to the one just below and to the left. This should then be all of the connections you need to get you up and running. The settings on the flight controller itself are usually set by default quite well and will get you off the ground. I will do a guide in the future in regards to tuning. Like Like. From a quick google I think your reciever is a very similar setup to the one I have in a diagram above. Just need to make sure your pin outs are in the same order. Should be able to find some sort of diagram for it online! You are commenting using your WordPress. You are commenting using your Google account. You are commenting using your Twitter account. You are commenting using your Facebook account. Notify me of new comments via email. Notify me of new posts via email. Skip to content So as is evident from my other posts, I decided to scratch build myself a quadcopter, which I had to take myself from literally no understanding of these things at all to being able to build one that flies properly which I did in fact manage to do. What is it? Related items There are two other main things that need to be connected to the flight controller, these are the receiver, and the electronic speed controllers ESC ESC â€" This is what controls the main motors, it is directly connected to the battery of the aircraft, and then the motors, with a signal wire that will then connect to the flight controller. Share this: Twitter Facebook. Like this: Like Loading Getting started late with these. Thanks for posting this, it explains a lot. Leave a Reply Cancel reply Enter your comment here Fill in your details below or click an icon to log in:. Email required Address never made public. Name required. Add your thoughts here Email Required Name Required Website. By continuing to use this website, you agree to their use. To find out more, including how to control cookies, see here: Cookie Policy. Here is the KK2 setup video for the Tricopter V3. I noticed that I skimmed some areas a bit lightly when shooting the video, but I hope people still find it useful. David, I have the KK2. All props rotate the same direction. Depends on you All up weight, and motor distance as well. But start with something like P30 and I15 and work from there. Listen, smart ass! Only took an hour to get it right! It turns out that the pinout for what I think is called the isp header was upside down from what I thought. Makes all the difference. Anyway, it flies amazing. Locked in, rock solid. Even the motors sound smoother. I like it a tad higher, but man it flies so much better. So much better. Hi David, thanks for the Video. It helped me alot to setup mi Tri. Each motor with esc spins up, when plugged directly into the receiver. The receiver test shows perfect setup. I could not find any good introduction to the KK mini. Do you have any by chance? Thank you in advance. What firmware are you running? Try doing a factory reset on the board. Thanks to your answer and some

goole-research I found the answer: I needed to trim down trottle a little bit. Never mind. I had accidentally fiddled with throttle servo timings, which limited the throttle minimum value. Strange that the value range on the receiver test screen went to 0, though. After fixing the servo minimum timing, I can arm the controller just fine. Thanks for the video David. Question for you or anyone else with some info. Or is it safe the way it is? Or is it again ok to have power going to channel 2 and 3 on the mini board? Thank you. Since power rail is common on m, you will then have 1A available to power the servo. No external bec required. I tried these settings and with the I gain that low, it was way too spongy for me. Anyone else have that? My input felt mushy and delayed. I may also be clueless. I like the stick scaling a little higher too. Cant be bothered to move the sticks too much? Do you fly FPV or line of site? Your settings made my settings feel self conscious! I fly line of sight a bit but FPV mostly. I tested the settings LOS. I ordered a usbasp so I can try the Steveis firmware. What can I expect will be different with that? There are many dedicated RCExplorer fans and just looking at the replies there are plenty of knowledge out there. Would love to see a simple but more efficient way to share thoughts and ideas about your products and contribution. Keep up the great work and looking forward to the next RCExplorer product. Thank You for your great effort Could you please tell me which steveis firmware you are using. In the video he used 1. If you go to 9 min 56 sec on the kk2 setup video, is shows the firmware version when he restarts the board. Thanks David of introducing me to the world of multi-rotors. Thanks David, glad you were able to find the time to do the video, the info on PI values and stick scaling has been very helpful to me. The Steveis FW flies pretty great at default settings, but turning down the gains was a big improvement. Your tips on how to deal with the single line of input pins on the Mini was great, but doing CPPM on those same pins is a bit more fiddly than a person might expect, especially since the HK video on doing so is or at least was wrong. Thanks again!!! Hmmm might need to write a post on thatâ€¦. Same went for me! I thought I liked the twitchy responsive thing. Looking at my footage though, it was jerky and crazy. Also hard to keep anything in frame for any length of time. I like it. Thinking ahead is proving to be much more enjoyable and smooth. The way I was set up before was like turning the cyclic and rudder on or off, there was no variable input. Glad I tried it out. Thankful for the wait on the setup video. It allowed me time to get the experience of playing with settings so that I had a basis for comparison. I fly with self level on and I am realy struggling to get it to fly. In what way is it behaving? The original firmware is really bad when it comes to self level. Update to stevies or KK1. Stevies is only for KK2. Happy holidays! I have a question about the expo configuration. When you say that you use it on all the control surfaces, does it include throttle? I was setting up my radio lately and had this doubt. And other point: I had to set the throttle limit to be a little bit unde the value that you recommended on the video, at least on my KK2. Or is everything already setup with the SimonK firmware from the factory? Other than that, good to go. Great video. Would it be possible to get you to do a video on flashing the boards. I am new to all of this and need as much help as I can get. I had exactly the same problem like Jumper. Did you mount the board so that you can read the display when standing behind the tricopter? Ooo for tricopter try this Jumper: â€" reverse aileron and elevator on your tx â€" rotate board degree facing backward â€" dont change the motor layout i believe you can fly. When I remove the energy plug I must wait a few minute, than I can put the plug into again. The board works for a few seconds than it crashs again. Sounds like a bad board or that the voltage regulator is slowly shutting down. I would guess the board is bad though. Anything get hot on the board? Hello has all tuto is excellent! I made all the configuration as so indicated above. Having made it but after my helixes turn not on my screen he are write there: self level is on batt: 0. Hey David. I am trying to get my first tricopter up and running but am having trouble with my kk2 board. Have tried and retried with no success. I have flashed and re flashed with steveis 1. I am using the hard case kk2 board that I just received from HK a couple of weeks ago. First off I got all the settings done per your video and the receiver test showed connectivity and function. However, in the end, when all was said and done, and I powered up the system, there was no actual powering of the motors or servo. I tried to check all but had no success. I am at a total loss. Can you give me some direction? I have no clue where to go from here. Thanks so much for your time. Do you have a picture showing how you hooked thing into the KK2 board. That would help a lot. Does the receiver power up when you power the KK2 board? Are you sure you got the signal pins towards screen on the KK2? Are you sure the signal pins are the right way in the receiver? Did you bind your receiver to the transmitter? Thanks for the response David. Actually,,,,life is now good. I figured out my problem and have had two successful hover flights. Here is what happened. Actually, when I first completed the build and the kk2 setup, I was unaware of the last step,,,,arming the board. Sounds crazy simple now but at the time I was not aware. I had never flown a multicopter. So, I re-flashed the board and started over. When I started over I questioned some setup options I

Once I had my mistakes corrected and knew about arming all came together. It was a learning experience but I have it now. And it is a wonderful feeling to get it in the air. I hope that this post helps others that have maybe had my same experience. It was a struggle at the end but all in all very fun. I look forward to 2. Thanks David for all the information that you have place out there for all to learn from. He made the flashing step a breeze. Also please explain me when to use trims and when subtrims. I have builded a new Tricopter as yours. I use the KK2. But I have a little bit problem for PI tuning. As your PI data,my tricopter is not so good handfeeling. P I 65,the yaw is 60,the same about P I. So the tricopter do not appear the vibtation until I have set the value as above. Is the KK borad has broken??? I hope you tell the things about above, I speak English a bit,please do not mind,thank you david so much! You must be logged in to post a comment. Log in to Reply. Are the t-motor Mt kv settings the same gains? Thank you David for posting this. It help fill in some holes in the setup that I had. I will count this as my Christmas present lolâ€¦ Thank you David! Keep up the good work., Great video, David, as always. Does anybody know whether Steveis fw is available for KK2. Are you still using Simonk fw on the ESCs? What about BLH

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 eli? Have you tried it out? Use KK1. Works great. Still using Simon K. Tried BLHeli and I have no preference really. Both work well. Worth upgrading definitely. Hi David, thanks for your reply. Thank you, Schlagbohrer and David! I just had the same problem, now it is solved! So frustrating. Do you have any ideas? Like patrick said, the becs are linear so they work together. Working on a forum. Yeah, this thing is fun! Hi David, I fly with self level on and i am realy struggling to get it to fly. Hi David I have a question about the expo configuration. Other than that, great tutorial, it helped me to adjust my board better. Nope, just aileron, elevator and rudder. Leave the throttle alone. Question for you I have the Trifecta and the mini KK board with 1. I look forward to 2 Thanks David for all the information that you have place out there for all to learn from. Thanks again! Leave a Reply Cancel reply You must be logged in to post a comment. Privacy Policy Terms of Service Contact us.