



Flashing from BBxxx(bb427) to RaceFlight One

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Go to Chrome Extensions

Click "add to chrome"



Search for raceflight



Click "Add App"



Now that the old Raceflight Configurator has been installed go ahead and launch Raceflight



Downloading Files

Visit this link to find our most stable firmware release

Spektrum F400 Manuals and Support

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Go here for the most up to date firmware (note these are Beta and may have bugs present) http://www.raceflight.net/rf1beta/

Download the firmware and the Configurator for your OS

(Windows Client is 32bit)

To find out if your computer is running a 32-bit or 64-bit version of Windows in Windows 7 or Windows Vista, do the following:

Open System by clicking the Start button, right-clicking Computer, and then clicking Properties.

Under System, you can view the system type.

Windows 10

To do so, open the Settings app from your Start menu, select System, and select About. Look to the right of "System type." If you see "32-bit operating system or 64-bit operating system" To Launch RF1 Configurator in Linux

On ubuntu do the following. For Fedora change plugdev to dialout add a file /etc/udev/rules.d/46-revolt-permissions.rules containing

raceflight revolt hid bb

SUBSYSTEM=="usb", ATTRS{idVendor}=="0483", ATTRS{idProduct}=="5741", MODE="0666", GROUP="plugdev" KERNEL=="hidraw*", SUBSYSTEM=="hidraw", ATTRS{idVendor}=="0483", ATTRS{idProduct}=="5741", MODE="0664", GROUP="plugdev"

raceflight revolt hid rf1

SUBSYSTEM=="usb", ATTRS{idVendor}=="0483", ATTRS{idProduct}=="5742", MODE="0666", GROUP="plugdev" KERNEL=="hidraw*", SUBSYSTEM=="hidraw", ATTRS{idVendor}=="0483", ATTRS{idProduct}=="5742", MODE="0664", GROUP="plugdev"

DFU (Internal bootloader for STM32 MCUs)

```
SUBSYSTEM=="usb", ATTRS{idVendor}=="0483", ATTRS{idProduct}=="df11", MODE="0664", GROUP="plugdev"
Then:
sudo udevadm control --reload sudo
```

adduser yourusername plugdev



While shorting the boot pins, plug in the F400. Once plugged, in the tweezers can be removed. You should see a lightly lit solid orange LED.

Next go to RFC and check the top right to make sure it says the board is in DFU Mode.

Once you can confirm this, click the Firmware Flasher tab on the left.





Click the Load Firmware [Local] on the bottom right.



Navigate to the Bin file. (once you downloaded and extracted the files from the Pinned Section)

Make sure all three check marks are DESELECTED. (No Reboot Sequence, Manual Baud Rate, Show Stable Releases)

Click Flash Firmware button on bottom which is now red.



It will erase and then flash your F400. Once finished it will say Programming: SUCCESSFUL.

Unplug your F400, then plug back in.

Congratulations! RaceFlight One is now installed on your Spektrum F400!

Launching the RaceFlight One Configurator Open the downloaded ZIP file and extract to a destination of your choice

To Flash the latest firmware

1. This applies to updating to newer versions of RF1 once you have RF1 Flashed ex. going from RF1 238 to 257

RaceFlight - Configurato

- 2. Download newest Raceflight Configurator
- 3. Download newest Firmware:
- 4. Open RaceFlightOne Configurator

Launch rf_configurator.exe

Name	Date modified	Туре	Size
locales	2/18/2017 11:19 PM	File folder	
🜍 credits.html	2/18/2017 11:19 PM	Chrome HTML Do	1,793 KB
d3dcompiler_47.dll	2/18/2017 11:19 PM	Application extens	4,367 KB
🚳 ffmpeg.dll	2/18/2017 11:19 PM	Application extens	982 KB
] icudtl.dat	2/18/2017 11:19 PM	DAT File	9,892 KB
ibEGL.dll	2/18/2017 11:19 PM	Application extens	93 KB
libGLESv2.dll	2/18/2017 11:19 PM	Application extens	2,425 KB
🕈 natives_blob.bin	2/18/2017 11:19 PM	BIN_File	332 KB
🗟 node.dll	2/18/2017 11:19 PM	Application extens	5,716 KB
🗟 nw.dll	2/18/2017 11:19 PM	Application extens	87,986 KB
nw_100_percent.pak	2/18/2017 11:19 PM	PAK File	488 KB
nw_200_percent.pak	2/18/2017 11:19 PM	PAK File	745 KB
🗟 nw_elf.dll	2/18/2017 11:19 PM	Application extens	526 KB
resources.pak	2/18/2017 11:19 PM	PAK File	7,109 KB
🗜 rf_configurator.exe	2/18/2017 11:19 PM	Application	64,890 KB
snapshot_blob.bin	2/18/2017 11:19 PM	BIN_File	813 KB

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Click on Update Firmware tab

Click on Load Firmware Locally

Choose the Firmware



Note Every time you update the firmware you will need to repeat a few steps. These include Setup Flight Controller, Detect Receiver, Setup Radio, Setup modes if you are using them. And if using telemetry receiver, flip that slider, as well as choosing the appropriate UART for Smart Audio, if used.

Binding Spektrum Receivers

	RaceFlight - Configurator		•• - • ×
		RACEFLIGHT	Version: 0.193.0 FC version: 0.193.057 BETA 4 Revision history
	SETUP CONFIGURATION PID TUNIN	G ESC LOGGING CONSOLE UPDATE FIRMWARE HELP	
	Radio Settings		
Click on the Bind Spektrum	BIND SPEKTRUM		
	Receiver Protocol Spektrum TX Pin	Paceiver Port UART 1	
	Telemetry		
NOTE - If using SPM4649T Telemetry BX_Click this Slider	Spektrum telemetry	Taranis telemetry (RX3 Pin)	
BEFORE binding	Mixer		
	Reverse Prop Direction		
	LED		
	LED Count * 16	LED made Off - LED color	
		R 🖕	10
		G 0	0
			SAVE

Follow the prompts until your receiver is bound

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SETUP	CONFIGURATION	PID TUNING	ESC	LOGGING	CONSOLE	UPDATE FIRMWARE	HELP				
Select r	method to bind	your Spektru	um contr	oller:							
Bind fo	r Spektrum DSMX(rec	ommended)									
) Bind fo	r Spektrum DSM2 11n	ns									
Bind fo	r Spektrum DSMX 22r	ns									
								CANCEL NEXT			



STEP 1: Setup Flight Controller

Click on Setup Flight Controller

ceFlight - Configurator			RACEFL		Version: 0.193.0 FC version: 0.193.057 Bi Revision history
ETUP CONFIGUR	RATION PID TUNING	ESC LC	OGGING CONSOLE	UPDATE FIRMWARE	HELP
1. SETUP FLIGHT CON	TROLLER		2. DETECT RECE	EIVER	3. SETUP RADIO
4. UPDATE ESC			5. CALIBRATE MC	DTORS	6. FIX MOTOR DIRECTION & IDLE
ARMED channel				0.00	
0	-100			0.00	100
ATTITUDE channel 0	-100			0.00	100
				0.00	
0	-160			0.00	100
LOGGING channel				0.00	
0	-160			0.00	100
BUZZER channel 0	tho			0.00	100
					RESET SAVE

Follow the steps and orientation of the Quadcopter



STEP 2: Detect Receiver

Click on Detect Receiver

				2		IGH	T		Version: 0.193.0 FC version: 0.193.057 BET Restision history
etup	CONFIGURATION	PID TUNING	ESC	LOGGING	CONSOLE	UPDATE	FIRMWARE	HELP	
I. SETUP	FLIGHT CONTROLLER				2. DETECT RECI	IVER			3. SETUP RADIO
I. UPDAT	EESC				. CALIBRATE MC	TORS			6. FIX MOTOR DIRECTION & IDLE
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ATTITUDE 0	channel	100					0.00		
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0 0	channel	-160					0 00		100
							0.00		
BVZZER d	bannel								
0		-100					0.00	anime o anani (ao mane)	100

Turn your Radio on



Successful Detection

RaceFlight - C	onfigurator			24		.IGHT ONE		↔ — □ Version: 0.193.0 FC version: 0.193.057 BE Revision history
SETUP	CONFIGURATION	PID TUNING	ESC	LOGGING	CONSOLE	UPDATE FIRMWARE	HELP	
Automa	tic radio detect	tion succood	od					
Radio Deter	tion Wizard Step 2	don succeed	cu.					
Please run	the Setup Radio Wiza	rd next						
								DONE
								DONE

STEP 3: Setup Radio

Note – NO changes to travel or reversing is needed for RaceFlight One

Click on Setu	up Radio	Follow the pro	ompts until se	etup is complete	
	Version: 0.193.0 PC version: 0.193.0 PC version: 0.193.017 BETA 4 Encountribution		* – D × Vestion: 8.193.6 FC vestion: 8.193.657 BETA-4 Biological Interny		 Π × Sector: A 10.04 RC version: 0.1912/05/18426.4 Restaurchiston
	3 SETUP RADIO	Server connunction women sec country conside and remaining receiver the sec country of the second seco		Tum on your radio.	Eur
A UPDATE ESC. & CALAMATE MOTORS	6 FOCMOTOR DIRECTION & IDLE	emprotein rear and the 1	CANCEL NEXT	percent reads water and the move your stoke in circles for 15 seconds.	CANCEL NEXT
000 0	sbo			Follow next steps	
000				Please move the sticks in complete circles a few times. After that place the throttle at and roll centered. Then click OK.	idie and keep yaw, pitch,
1000					CANCEL OK
000 000 000 000 000 000 000 000 000 00	tło				
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Once Flashed follow each of the following steps REMOVE PROPS Step 4. Update ESC REMOVE PROPS

DANGER

For this step you will need your battery handy

Click on Update ESC

aceFlight - C	onfigurator		2			
SETUP	CONFIGURATION	PID TUNING	ESC LOGGING	CONSOLE	UPDATE FIRMWARE HELP	
1. SETUP	FLIGHT CONTROLLER			2. DETECT RECE	IVER	3 SETUP RADIO
4. UPDATI	ESC			5. CALIBRATE MC	NTORS	6. FIX MOTOR DIRECTION & IDLE
					0.00	
ARMED chi 0	annel	-160			0.00	100
					0.00	
0	channel	-160			0.00	100
					0.00	
FAILSAFE (channél	-100			0.00	100
					0.00	
0	thannel	-100			0.00	100
1772111					0.00	
BUZZER ch	annel	*00			0.00	annan anna ann ann ann ann ann ann ann

Plug your battery in at this Point

And Click Update ESC

RaceFlight - C	onfigurator			24				
SETUP	CONFIGURATION	PID TUNING	ESC	LOGGING	CONSOLE	UPDATE FIRMWARE	HELP	
Remov	e your props !!!							
1 have	REMOVED the props	and CONNECTED	the battery					
								CANCEL UPDATE ESCS

Once Complete , you should get 1wire success

nace spin - o								Version: 0.193.0 FC version: 0.193.057 BETA 4 Revision history
SETUP	CONFIGURATION	PID TUNING	ESC	LOGGING	CONSOLE	UPDATE FIRMWARE	HELP	
1wire s	uccess							1
Reading E Motor O H Motor O H Motor 2 H Motor 3 H Motor 3 H Motor 3 D Motor 4 D Motor 4 D Motor 5 O Motor 6 D Motor	SGE J. 900 # #BLHE 565, J. J. H. 900# #BLHE sabled sabled 100 Read 101 Read 10	LUSEFM0821m=r1 LUSEFM0821m=r1 LUSEFM0821m=r1 LUSEFM08221m=r1 LUSEFM08221m=r1 0000 0000 0000 0000 0000 0000 0000 0	8.65 Tooss 5.65 Tooss 5.65 Tooss 5.65 Tooss 5.000 Toos 7.000 Toos 7.000 Toos					

STEP 5: ESC Calibration

For this step you will need a battery. Plug in the battery when the prompt tells you to do so.

* – D ×

RaceFlight

1. Click on Calibrate Motors

RaceFlight - Configurato

2. Follow the prompts until ESC Calibration is complete

	RACI	FLIGHT	FC version 0.193.057 BETA 4 Revision history		FC version: 0.193.057 BETA - Revision history
SETUP CONFIGURATION	PID TUNING ESC LOGGING CON	SOLE UPDATE FIRMWARE HELP		SETUP CONFIGURATION PIDITUNING ESC LOGGING CONSOLE UPDATE FIRMINARE HELP	
1. SETUP FLIGHT CONTROLLER	2 DETEC	TRECEIVER	3. SETUP RADIO	Remove your props !!!	
				I have REMOVED the props and have DISCONNECTED the battery	
UPDATE ESC	5. CALIER	ATE MOTORS	6. FIX MOTOR DIRECTION & IDLE		START MOTOR CALIBRATION
		0.00			
URMED channel 0		0.00	the second		
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AFTITUDE channel		0.00			
1	-100	0.00	100		
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			RESET SAVE		
SETUP CONFIGURATION Remove your props !!! I have REMOVED the props a	PID TUNING ESC LOGGING DON	SOLE UPDATEFIRMWARE HELP		SETUP CONFIGURATION PID TUNING ESC LOGISING CONSOLE UPDATE FRAMMARE HELP Calibration success If you have heard the proper tones from the motors you have successfully completed motor calibration. If you have not please run the motor calibration If you have heard the proper tones from the motors you have successfully completed motor calibration. If you have not please run the motor calibration	oration wizard again.
			CANCEL REFERENCES CALIFICATION		DONE
	Info				
	Plug in the battery and wait until the ESCs are	inished with the first calibration tones. Then press ok.			
	-				

"esc_frequency = 8000" without quotes. Once they Calibrate change back to "esc_frequency = 32000"

Motor Test Commands

idle	0
idle	1
idle	2
idle 3	3
idles	top = Stops all motors

Setting Motor Idle, Mixer Type and Direction

Choose Option 6. FIX MOTOR DIRECTION & IDLE You will be asked to remove props and connect battery. The motors will then attempt to run at a low idle, Simply follow the on screen prompts



The next step will spin one of the motors, At this point choose that motor and hit next. Follow the prompts until this setup is complete.



The last step will be setting motor direction. Click the start motors button.

Observe motor direction and click the reverse slider, where appropriate, to match the diagram. Then hit save.



Hover Test

Now that you have flashed RF1 and gone through all the steps, it's now time to Hover Test

- 1. Make sure that your Armed is setup. It gets setup during Setup Radio
- 2. The 1st time you arm. It will be a double arm, after that it's a single arm
- Arm the Quad in a safe area.
 Hover(30sec hover) then land. Feel the motors and make sure they are not hot.
- 4. If they are not hot you are good to go.
- If motors are hot, then you will need to change some settings. Seek help in the raceflightone channel on <u>Slack</u>

	RACEFLIGHT	Verland, 8 700 0 AC exercise in the 647 BBTN Basissie hamn
SETUP CONFIGURATION PEDTUNING	LODGING CONSOLE LIPOATE FIRMANE HELP	
1 BÉTUPFUGHT CONTROLLEB	> OFTER WORKS	3 SETUP HADO
4 UPDATE ESC	 CALENARY MOTORING 	4. FERMOTON DIRECTION & UNL
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CODONED-Duranie		70.00
8	-60	100.00
RU222A mene	0.00	
0	-100	in a second s
	3.00	

Added Double-Double arm method and made it default is: set arm_method=1 Double-Single arm method is: set arm_method=0

https://raceflight.slack.com

Now go FLY!!!

Acknowledgements – Thank you to the Raceflight Crew and Destro for allowing us to use their manual and content to produce this setup document. Also, big thanks to the FPV community for supporting our new RF1 Firmware release! Any and all feedback is appreciated