

HIGH PERFORMANCE
3D QUADCOPTER

HYPER 3D-400

TURNING
YOUR MIND
UPSIDE DOWN



SPECIFICATIONS

○ WIDTH/LENGTH	314 mm
○ HEIGHT	110 mm
○ DIAGONAL M2M	400mm
○ PROPELLER SIZE	8"
○ FLIGHT TIME 3D	3-4 min
○ 3-4 Cell LiPo	1800-2250



18+

this is not a toy

WARNING!

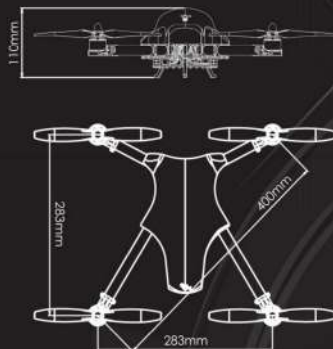
Rotating parts may cause injury

www.aerialfreaks.com



HIGH PERFORMANCE
3D QUADCOPTER

www.aerialfreaks.com



HYPER 3D-400 ARF INCLUDES

- HYPER 400 FRAME (CNC ALUMINUM AND CF)
- STRONG CNC ALUMINUM LANDING GEAR
- HYPER 3D 2212-14 50HV MOTORS (4 PCS)
- HYPER 3D HIGH PERFORMANCE 30A OPTO ESC (4 PCS)
- PRE-PROGRAMMED NAZE32-ACRO FLIGHT CONTROLLER
- HYPER 3A 5V BEC
- CUSTOM FUSION FIBERGLASS AIRBRUSHED CANOPY
- HIGH CURRENT POWER DISTRIBUTION BOARD
- ZEALBLADES 8" HIGH PERFORMANCE PROPELLERS
- FUTABA S-BUS AF ZERO LATENCY SIGNAL INVERTER
- SPEKTRUM/JR DSM2/H SATELLITE RX ADAPTOR

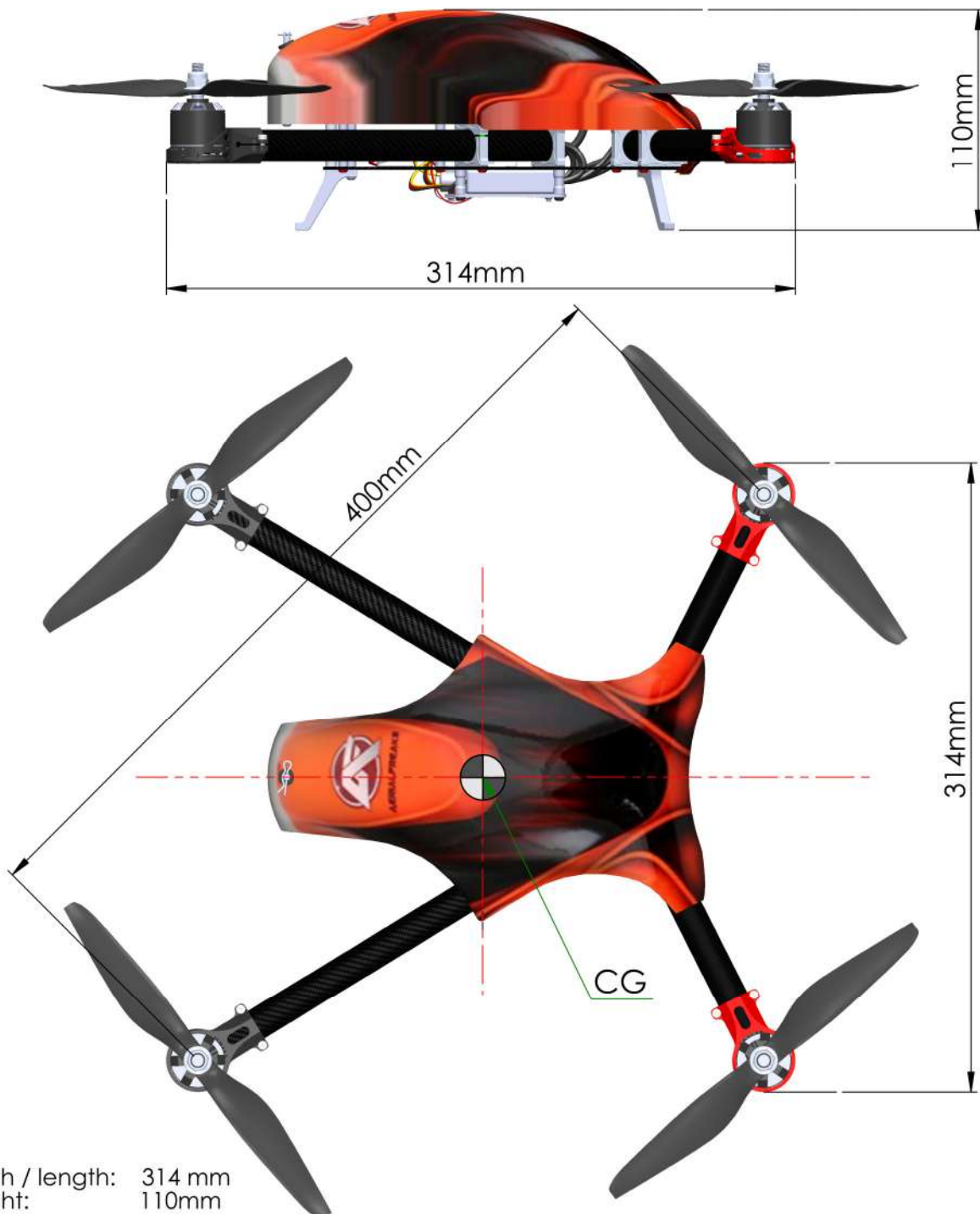
JUST ADD YOUR FAVOURITE RADIO AND BATTERY

○ 3-4 CELL LiPo 2200-2250 mAh (not included)

○ Any standard 5-channel transmitter/receiver combination, PPM-Sum, DSM2/H satellite, Futaba S-Bus receiver (not included)

SPECIFICATIONS

The hyper 3D is designed for all out 3D fun! With its simple, light weight design the hyper 3D is easy to assemble, easy to repair and has performance to spare. The painted fiberglass canopy looks modern and provides great visibility in flight. Colored motor mounts aid greatly with orientation. Get ready to discover what quad flying is really about!



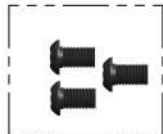
Width / length: 314 mm
 Height: 110mm
 Diagonal M2M : 400mm
 Propeller size: 8"
 Flight time 3D: 3-4 min.
 Battery: 3-4 cell Lipo 1800-2250 mAh (not included)



PACKAGE INCLUDES

HARDWARE

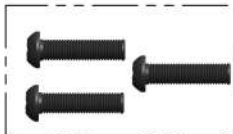
Button screw M3x5
33pcs (BHS-3005)



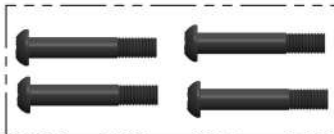
Button screw M3x8
2pcs (BHS-3008)



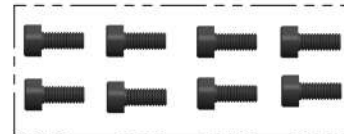
Button screw M3x12
8pcs (BHS-3012)



Button screw M3x20
4pcs (BHS-3020)



Socket screw M2.5x6
8pcs (SHS-2506)



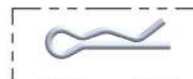
Nylon screw M3x12, 4 pcs
Nylon nut M3, 8 pcs



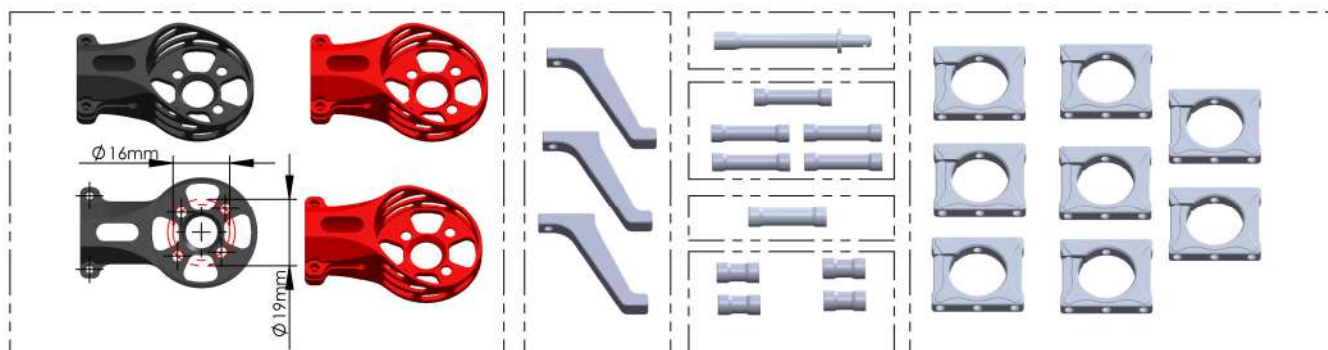
Button screw M3x30
4pcs (BHS-3030)



Canopy Clip
1pcs (3D-008)



CNC ALUMINUM PARTS



FRAME PARTS



ELECTRONICS

- * Motors : 2212-1450Kv, 4pcs
- * Propeller : 8 Inch, 4 pcs
- * ESC : 30A Reversible ESC
- * BEC : 5V-3A
- * Flight Controller : Naze 32 Acro 3D

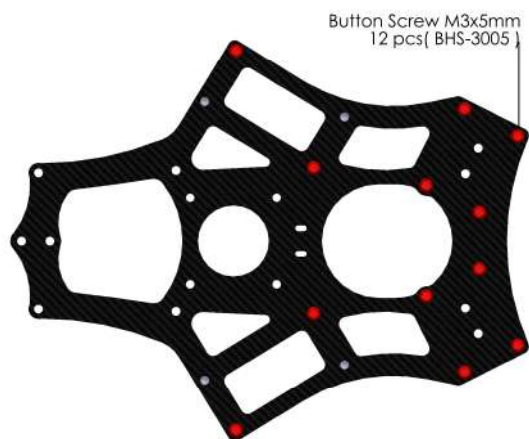
REQUIRED TO COMPLETE

- * Radio: 5 channel minimum
- * Battery : 3S-4S, 1800-2250mAh (not included)
- * Battery connector matching your battery type (not included)

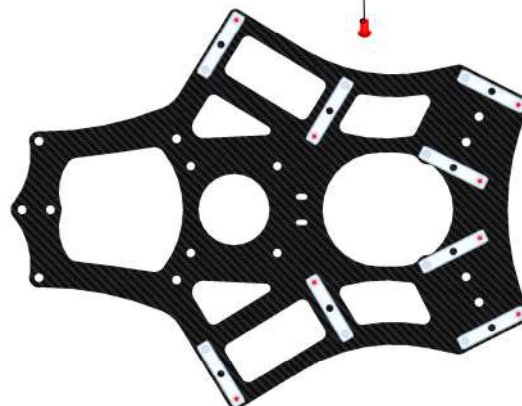
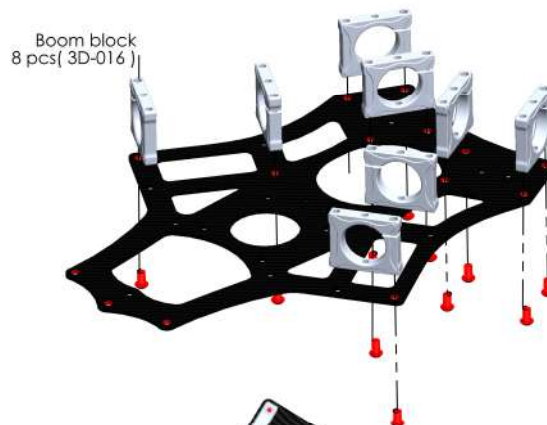
TOOLS-ADHESIVES

- * Generic pliers
- * Loctite 243
- * Hexagonal driver, size 2 mm
- * 5.5mm Socket wrench (for M3 nuts)
- * Double sided foam tape
- * Soldering equipment (for motor wiring)
- * Cable tie (black) 150mm

STEP 01

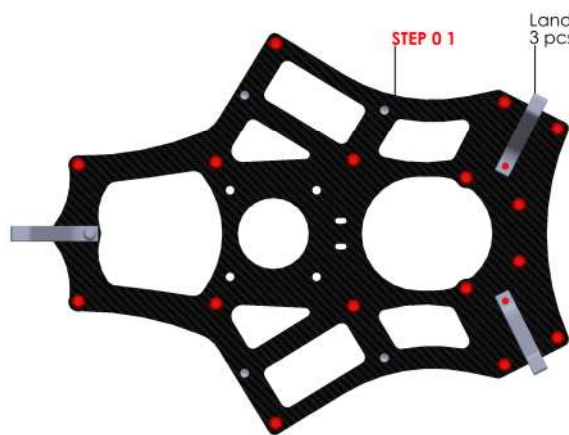


FINISHED ASSEMBLY

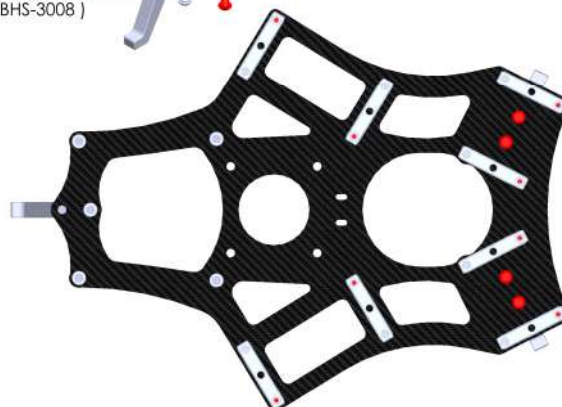
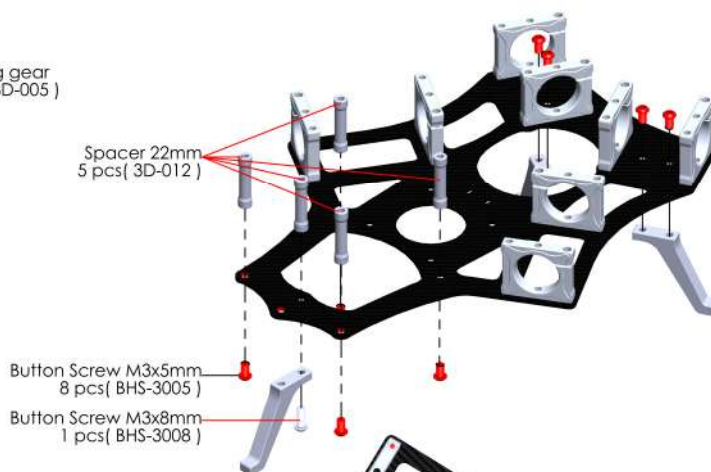


The bolts are actually black

STEP 02

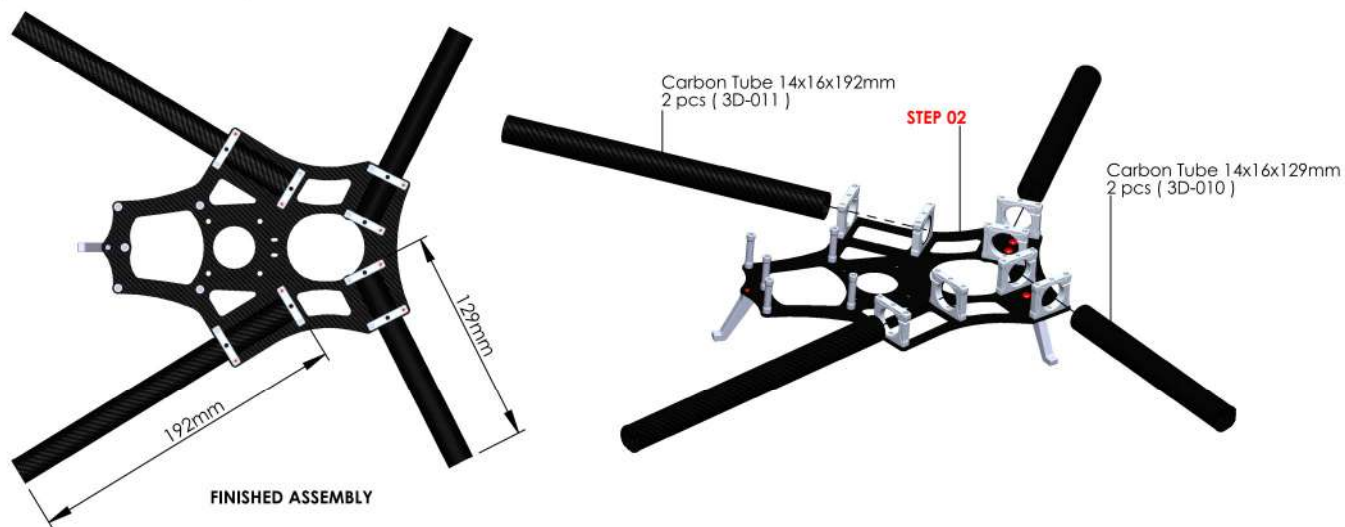


FINISHED ASSEMBLY

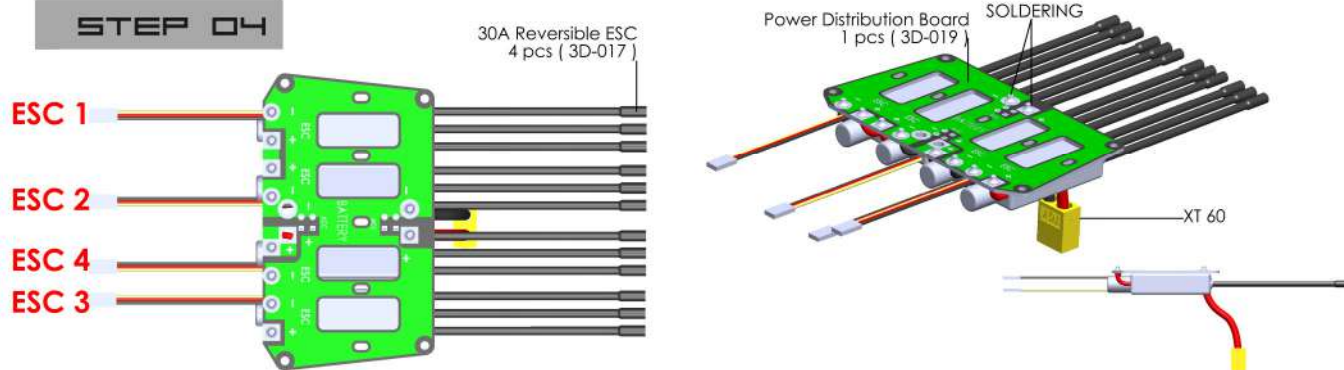


Use Loctite on all metal bolts

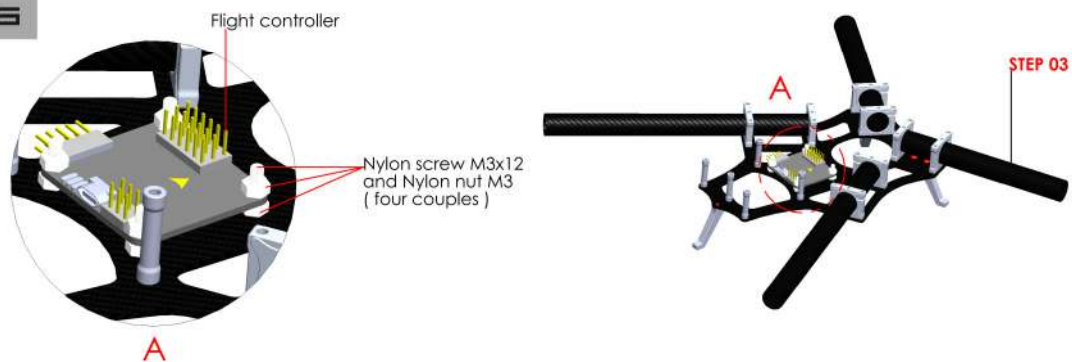
STEP 03



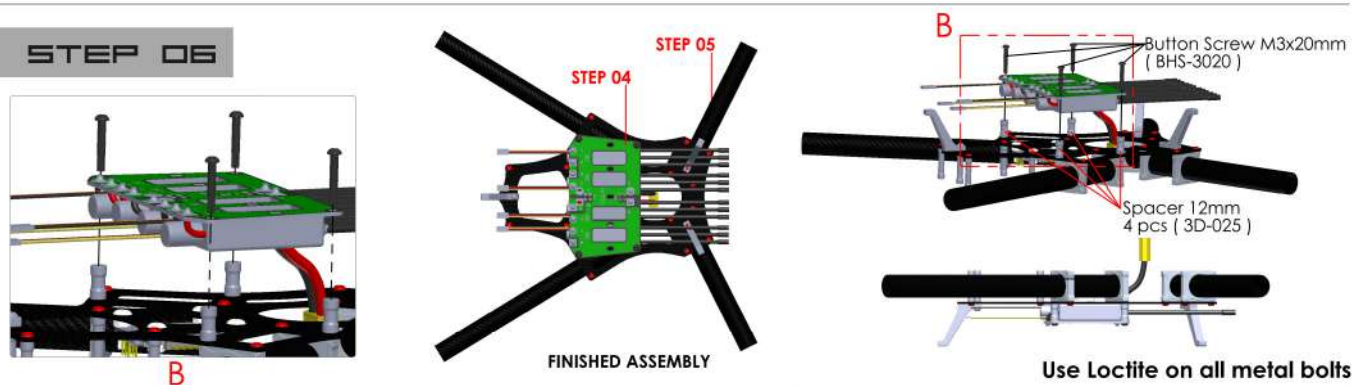
STEP 04



STEP 05

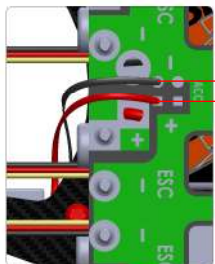


STEP 06

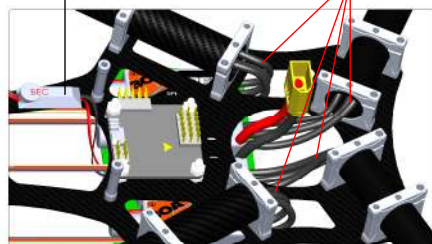


STEP 07

SOLDER BEC WIRES TO PCB



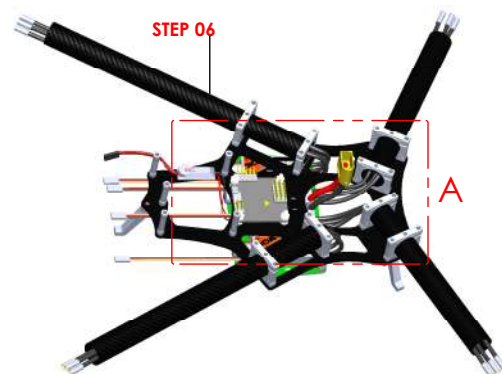
BEC 5V-3A



A

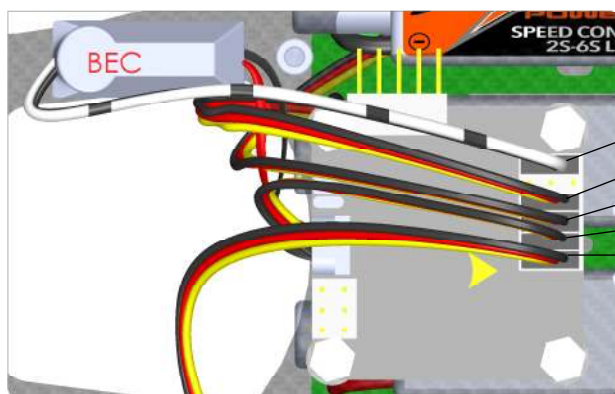
MOTOR WIRES GO FROM ESC THROUGH CF TUBES

STEP 06

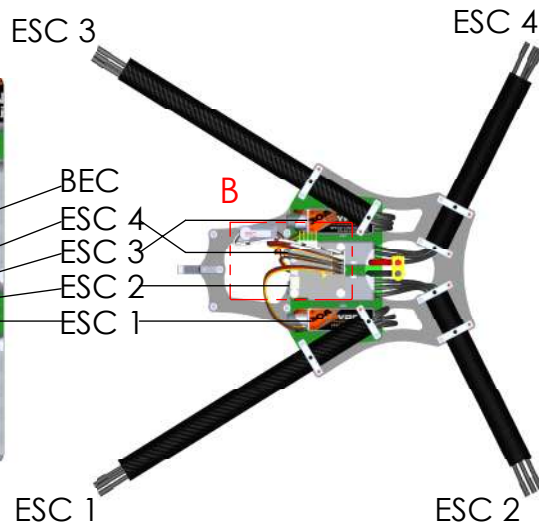


A

Note: Be careful to correctly plug the ESC and BEC wires into the flight controller.



B

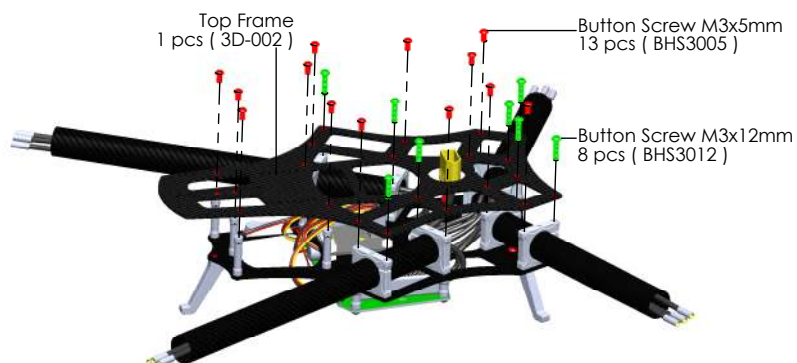


STEP 08

STEP 07



Top Frame
1 pcs (3D-002)



Button Screw M3x5mm
13 pcs (BHS3005)

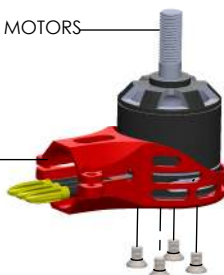
Button Screw M3x12mm
8 pcs (BHS3012)

The bolts are actually black

STEP 09

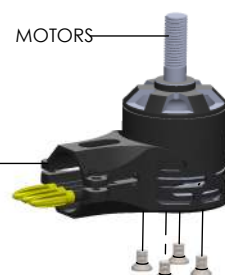
MOTORS

Red-Motor mount
2 pcs (3D-004)



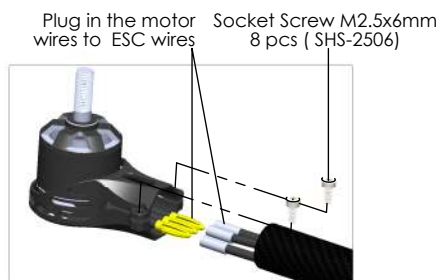
MOTORS

Black-Motor mount
2 pcs (3D-004)



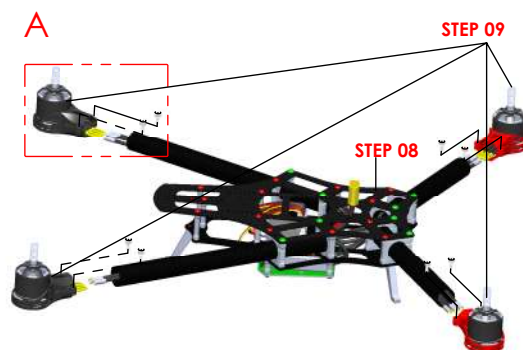
Use Loctite on all metal bolts

STEP 10



A

Four groups like this

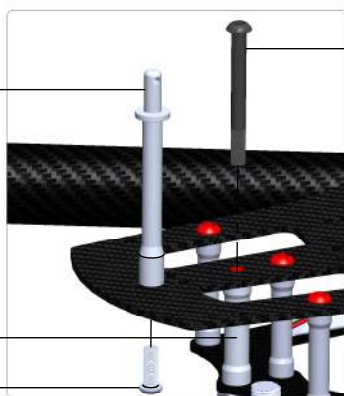


STEP 11

canopy pin
1 pcs (3D-008)

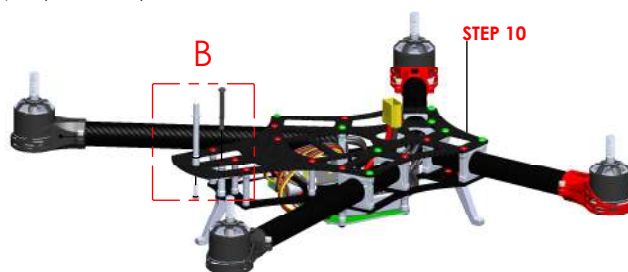
Hollow Spacer 22mm support
landing gear
1 pcs (3D-024)

Button Screw M3x8mm
1 pcs (BHS-3008)

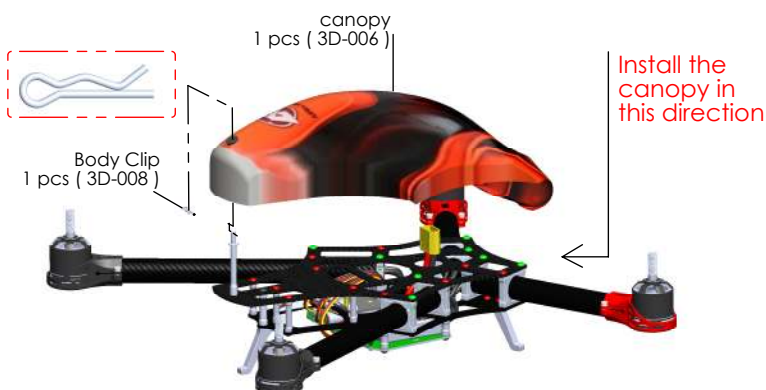
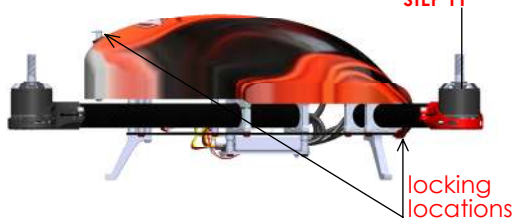


B





























Button Screw M3x30mm
1 pcs (BHS-3030)



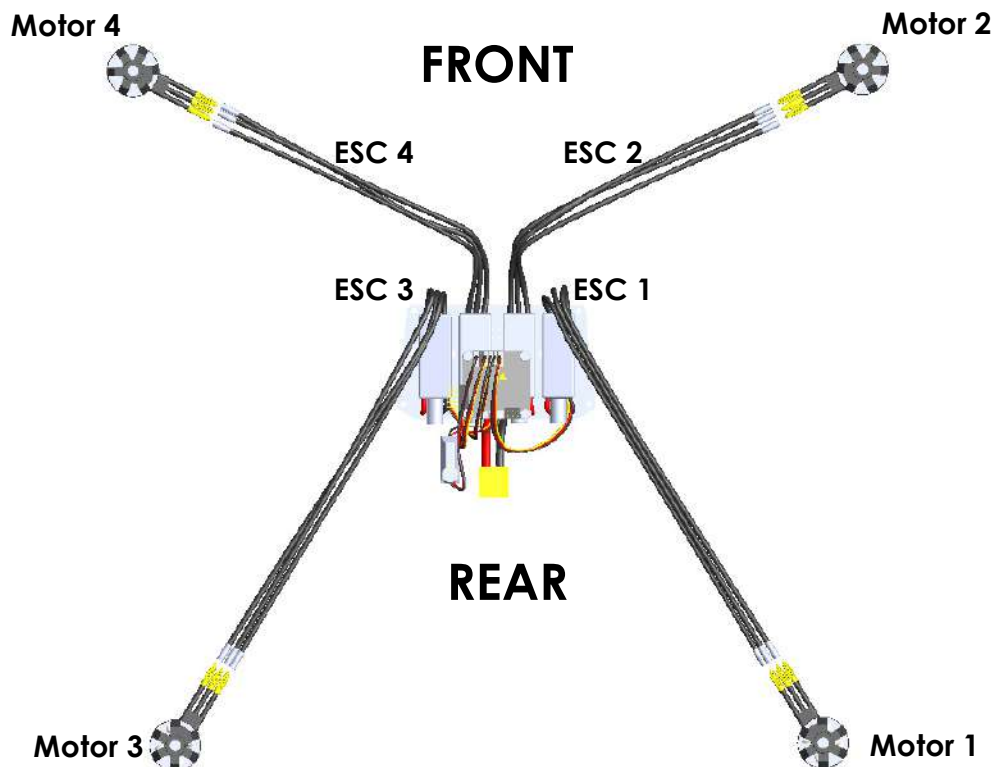
STEP 12



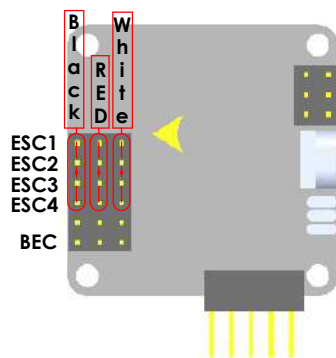
Use Loctite on all metal bolts

DEC.2014 V1.0				
ITEM No.	PICs	CODE NUMBER	DESCRIPTION	QTY./KIT
FRAME PARTS				
1		3D-001	Bottom frame	1
2		3D-002	Top frame	1
3		3D-010	Carbon Tube 14x16x129mm	2
4		3D-011	Carbon Tube 14x16x192mm	2
5		3D-009	Power Distribution Board	1
6		3D-006	Canopy	1
CNC ALUMINUM PARTS				
1		3D-004	Motor mount	4
2		3D-005	Landing gear	3
3		3D-008	Canopy pin (canopy pin+grommet 700+body clip)	1
4		3D-012	Spacer 22mm	5
5		3D-016	Boom block	8
6		3D-024	Hollow Spacer 22mm support landing gear	1
7		3D-025	Spacer 12mm	4
HARDWARE				
1		3D-019	Nylon screw M3x12mm	4
2		3D-020	Nylon nut M3	8
3		BHS-3005	Button Screw M3x5mm	33
4		BHS-3008	Button Screw M3x8mm	2
5		BHS-3012	Button Screw M3x12mm	8
6		BHS-3020	Button Screw M3x20mm	4
7		BHS-3030	Button Screw M3x30mm	1
8		SHS-2506	Socket screw M2.5x6mm	8
OPTIONAL PARTS				
1		3D-017	30A Reversible ESC	4
2		3D-018	Motor 2212-1450 Kv	4
3		3D-021	Propeller 8inch CW	2
4		3D-022	Propeller 8inch CCW	2
5		3D-023	Bec 5V 3A	1
6		3D-014	Flight controller	1
7		3D-026	SBUS	1

ELECTRONIC DIAGRAM

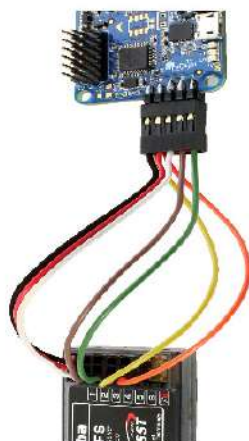
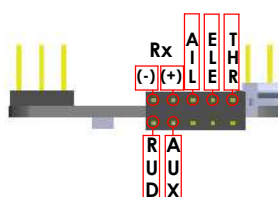


ESC CONNECTION



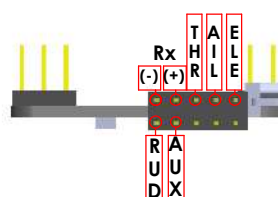
FUTABA/HITEC RECEIVER CONNECTION

- AIL: AILERON (WHITE)
- ELE: ELEVATOR (BROWN)
- THR: THROTTLE (GREEN)
- RUD: RUDDER (YELLOW)
- AUX: AUXILIARY (ORANGE)

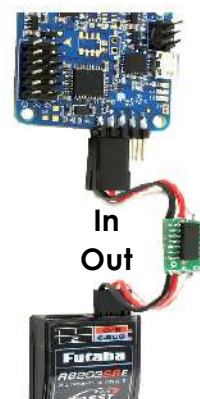
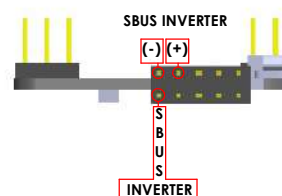


SPEKTRUM/JR RECEIVER CONNECTION

- AIL: AILERON (BROWN)
- ELE: ELEVATOR (GREEN)
- THR: THROTTLE (WHITE)
- RUD: RUDDER (YELLOW)
- AUX: AUXILIARY (ORANGE)



SBUS RECEIVER CONNECTION



SATELLITE RECEIVER CONNECTION

Cable already attached to the Naze32



CONNECT TO COMPUTER

1. Download and install the Baseflight-Configuration software to setup the naze32 flight controller:

<https://chrome.google.com/webstore/detail/baseflight-configurator/mppkgnedeapfejgfmkdoninnofofigk?hl=en>

To connect the flight controller board you will need a micro USB cable (note: samsung charger cable...). For a USB connection you'll need to install the appropriate software driver:

<http://www.silabs.com/products/mcu/pages/usbtouartbridgevcpdrivers.aspx>

2. Install the driver and connect the board, a new virtual COM port will be created. You will need to choose this COM port in the Baseflight-Configuration software to initiate the connection. Follow these steps to connect your main controller board to the Baseflight-Configuration software:

1/ Connect the micro-USB cable to the USB port.



Connect the micro USB cable to the USB port .

2/ Start the Baseflight-Configuration software, select the correct COM-port from the list, and click "Connect".

After adjusting parameters in the GUI Baseflight-Configuration software you should write them to the controller board by clicking the "SAVE" button. Only the current profile parameters will be saved to the board.

SBUS Radio Setup FUTABA USERS

- 1/ Create a new airplane model in your radio. Standard channel assignment.
- 2/ Using an SBUS Receiver (not provided in the kit), bind your SBUS to your Radio, connect the SBUS to SBUS-inverter and connect to flight controller.(Pic.2)
- 3/ Assign Channel 5 to Gear
- 4/ Assign the Gear (channel 5) to the Flight Mode switch (Or whatever switch you wanted).
- 5/ Enter the Servo Reverse menu of the Radio:

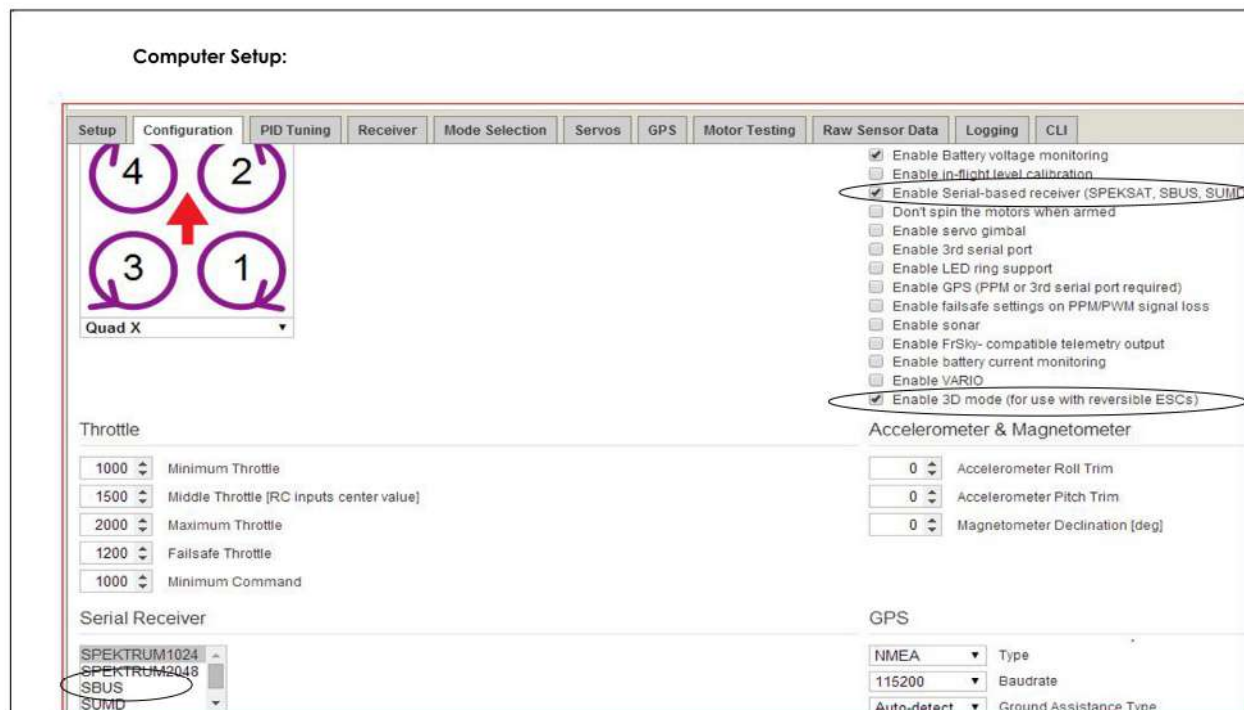
CHANNEL REVERSE	
THROTTLE	REVERSE
AILERON	NORMAL
ELEVATOR	REVERSE
RUDDER	NORMAL
GEAR	NORMAL

5/ **NOTE:** The Naze 32 controller can be adjusted just like a traditional airplane or helicopter. Radio default End point (-100/+100) should be used for Aileron, Elevator, and Rudder channels to begin. To increase the agility of the aircraft, simply raise or lower the end points of that particular channel

At this time, set the throttle End points to maximum(155-140/140-155). The throttle End point adjusts the overall power of the model. You can decrease the End points if you feel like you need less throttle authority during Flight. Recommend Endpoints:

END POINTS			
	LIMIT	TRAVEL	LIMIT
THROTTLE	155	140/140	155
AILERON	135	140/140	135
ELEVATOR	135	140/140	135
RUDDER	135	140/140	135
GEAR	135	100/100	135

Computer Setup:



Setup Configuration PID Tuning Receiver Mode Selection Servos GPS Motor Testing Raw Sensor Data Logging CLI

4 2
3 1
Quad X

Throttle

1000 Minimum Throttle
1500 Middle Throttle [RC inputs center value]
2000 Maximum Throttle
1200 Failsafe Throttle
1000 Minimum Command

Serial Receiver

SPEKTRUM1024
SPEKTRUM2048
SBUS
SUMO

☒ Enable Battery voltage monitoring
☐ Enable in-flight level calibration
☒ Enable Serial-based receiver (SPEKTRUM, SBUS, SUMO)
☐ Don't spin the motors when armed
☐ Enable servo gimbal
☐ Enable 3rd serial port
☐ Enable LED ring support
☐ Enable GPS (PPM or 3rd serial port required)
☐ Enable failsafe settings on PPM/PWM signal loss
☐ Enable sonar
☐ Enable FrSky-compatible telemetry output
☐ Enable battery current monitoring
☐ Enable VARIO
☒ Enable 3D mode (for use with reversible ESCs)


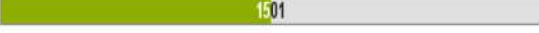

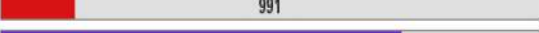






Accelerometer & Magnetometer

0 Accelerometer Roll Trim
0 Accelerometer Pitch Trim
0 Magnetometer Declination [deg]

GPS

NMEA Type
115200 Baudrate
Auto-detect Ground Assistance Type

SBUS Radio Setup FUTABA USERS

Setup	Configuration	PID Tuning	Receiver	Mode Selection	Servos	GPS	Motor Testing	Raw Sensor Data	Logging	CLI																		
Roll																												
Pitch																												
Yaw																												
Throttle																												
AUX 1																												
AUX 2																												
AUX 3																												
AUX 4																												
<div>   </div> <div> <table border="1"> <tr> <td>Throttle MID</td> <td>Throttle EXPO</td> </tr> <tr> <td>0.50</td> <td>0.00</td> </tr> </table> <table border="1"> <tr> <td>RC Rate</td> <td>RC Expo</td> </tr> <tr> <td>1.50</td> <td>0.30</td> </tr> </table> <table border="1"> <tr> <td>Channel Map</td> <td>RSSI on AUX</td> </tr> <tr> <td>TAER1234</td> <td>Disabled</td> </tr> <tr> <td>Default</td> <td>50 ms</td> </tr> <tr> <td>Futaba / Hitec</td> <td></td> </tr> <tr> <td>JR / Spektrum</td> <td></td> </tr> </table> </div>											Throttle MID	Throttle EXPO	0.50	0.00	RC Rate	RC Expo	1.50	0.30	Channel Map	RSSI on AUX	TAER1234	Disabled	Default	50 ms	Futaba / Hitec		JR / Spektrum	
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Click **Save** when finish

EXTERNAL RECEIVER Radio Setup FUTABA & HITEC USERS

- 1/ Create a new airplane model in your radio. Standard channel assignment.
- 2/ Using an External Receiver (not provided in the kit), bind your External Receiver to your Radio, connect the External Receiver to flight controller.(Pic.3)
- 3/ Assign Channel 5 (Or whatever channel you plugged the Aux wire into) to Gear
- 4/ Assign the Gear (channel 5) to the Flight Mode switch (Or whatever switch you wanted).
- 5/ Enter the Servo Reverse menu of the Radio:

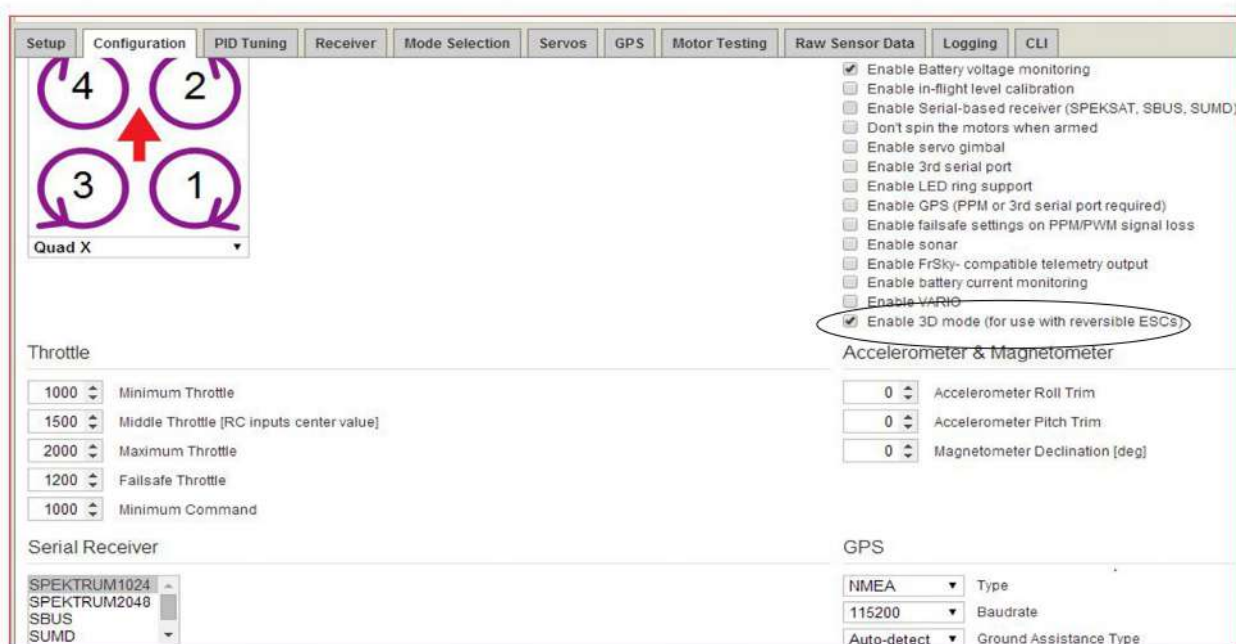
CHANNEL REVERSE	
THROTTLE	REVERSE
AILERON	NORMAL
ELEVATOR	REVERSE
RUDDER	NORMAL
GEAR	NORMAL

5/ **NOTE:** The Naze 32 controller can be adjusted just like a traditional airplane or helicopter. Radio default End point (-100/+100) should be used for Aileron, Elevator, and Rudder channels to begin. To increase the agility of the aircraft, simply raise or lower the end points of that particular channel




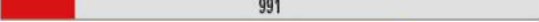






At this time, set the throttle End points to maximum (155-140/140-155). The throttle End point adjusts the overall power of the model. You can decrease the End points if you feel like you need less throttle authority during Flight. Recommend Endpoints:

END POINTS			
	LIMIT	TRAVEL	LIMIT
THROTTLE	155	140/140	155
AILERON	135	140/140	135
ELEVATOR	135	140/140	135
RUDDER	135	140/140	135
GEAR	135	100/100	135

Computer setup:



EXTERNAL RECEIVER Radio Setup FUTABA & HITEC USERS

Setup	Configuration	PID Tuning	Receiver	Mode Selection	Servos	GPS	Motor Testing	Raw Sensor Data	Logging	CLI																		
Roll																												
Pitch																												
Yaw																												
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Click **Save** when finish

SATELLITE Radio Setup SPEKTRUM DSM2/DSMX USERS

- 1/ Create a new airplane model in your radio. Standard channel assignment.
- 2/ Using an External Receiver (not provided in the kit), bind your Satellite to your Radio and connect the satellite to flight controller (Pic.1).
- 3/ Assign the Gear channel (channel 5) to the Flight Mode switch (Or whatever switch you wanted).
- 4/ Enter the Servo Reverse menu of the Radio:

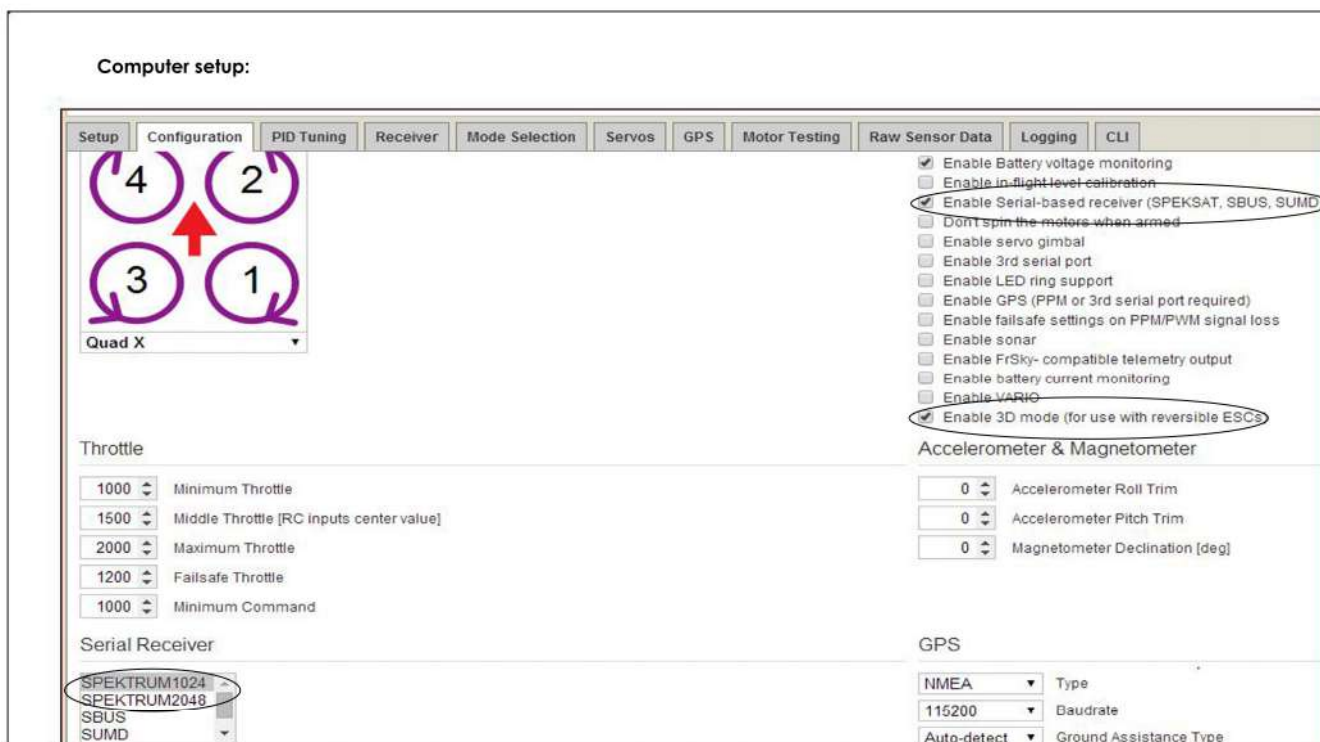
CHANNEL REVERSE	
THROTTLE	NORMAL
AILERON	REVERSED
ELEVATOR	NORMAL
RUDDER	REVERSED
GEAR	NORMAL

5/ **NOTE:** The Naze 32 controller can be adjusted just like a traditional airplane or helicopter. Radio default End point (-100/+100) should be used for Aileron, Elevator, and Rudder channels to begin. To increase the agility of the aircraft, simply raise or lower the end points of that particular channel











At this time, set the throttle End points to 150/150. The throttle End point adjusts the overall power of the model. You can decrease the End points if you feel like you need less throttle authority during Flight.
Recommend Endpoints:

END POINTS	
THROTTLE	150/150
AILERON	120/120
ELEVATOR	120/120
RUDDER	150/150
GEAR	100/100

Computer setup:



SATELLITE Radio Setup SPEKTRUM DSM2/DSMX USERS

Setup	Configuration	PID Tuning	Receiver	Mode Selection	Servos	GPS	Motor Testing	Raw Sensor Data	Logging	CLI																
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Click **Save** when finish

EXTERNAL RECEIVER Radio Setup SPEKTRUM/JR USERS

- 1/ Create a new airplane model in your radio. Standard channel assignment.
- 2/ Using an External Receiver (not provided in the kit), bind your External receiver to your Radio and connect the External Receiver to flight controller (Pic.4).
- 3/ Assign Channel 5 (Or whatever channel you plugged the Aux wire into) to Gear.
- 4/ Assign Gear (channel 5) to the Flight Mode switch(Or whatever switch you wanted).
- 5/ Enter the Servo Reverse menu of the Radio:

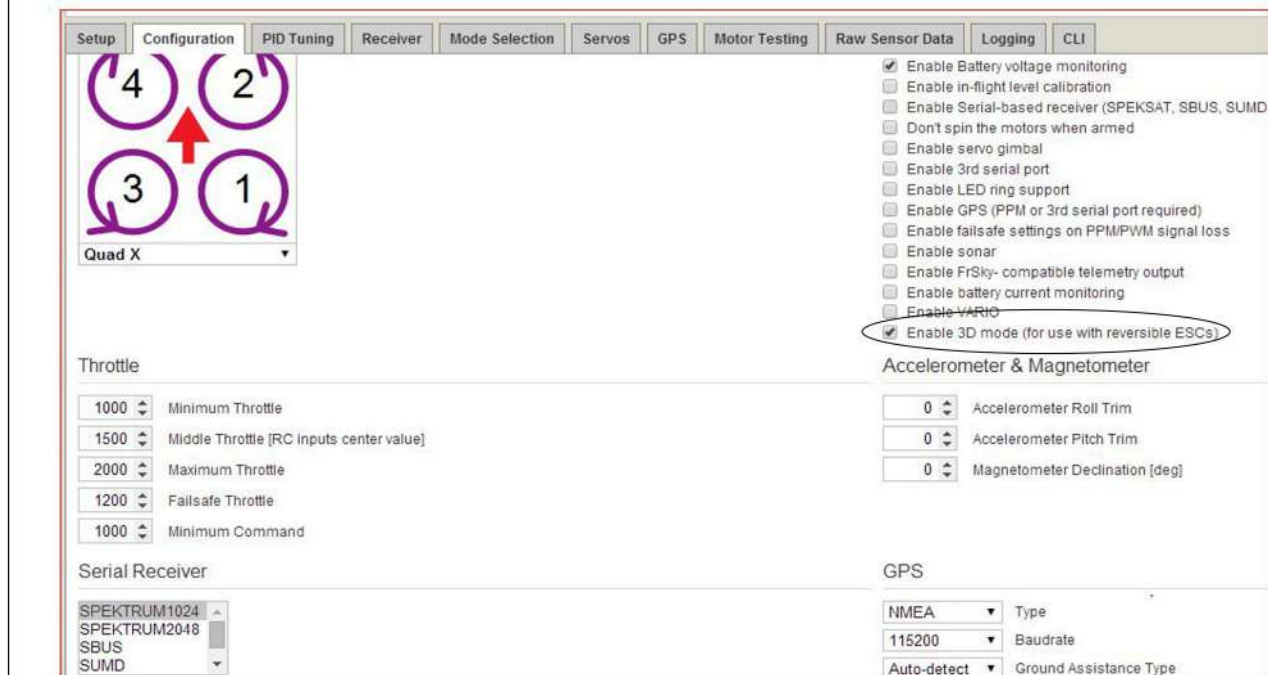
CHANNEL REVERSE	
THROTTLE	NORMAL
AILERON	REVERSED
ELEVATOR	NORMAL
RUDDER	REVERSED
GEAR	NORMAL

5/ **NOTE:** The Naze 32 controller can be adjusted just like a traditional airplane or helicopter. Radio default End point (-100/+100) should be used for Aileron, Elevator, and Rudder channels to begin. To increase the agility of the aircraft, simply raise or lower the end points of that particular channel




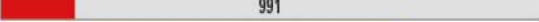






At this time, set the throttle End points to 150/150. The throttle End point adjusts the overall power of the model. You can decrease the End points if you feel like you need less throttle authority during Flight. Recommend Endpoints:

END POINTS	
THROTTLE	150/150
AILERON	120/120
ELEVATOR	120/120
RUDDER	150/150
GEAR	100/100

Computer setup:



EXTERNAL RECEIVER Radio Setup SPEKTRUM/JR USERS

Setup	Configuration	PID Tuning	Receiver	Mode Selection	Servos	GPS	Motor Testing	Raw Sensor Data	Logging	CLI																			
Roll																													
Pitch																													
Yaw																													
Throttle																													
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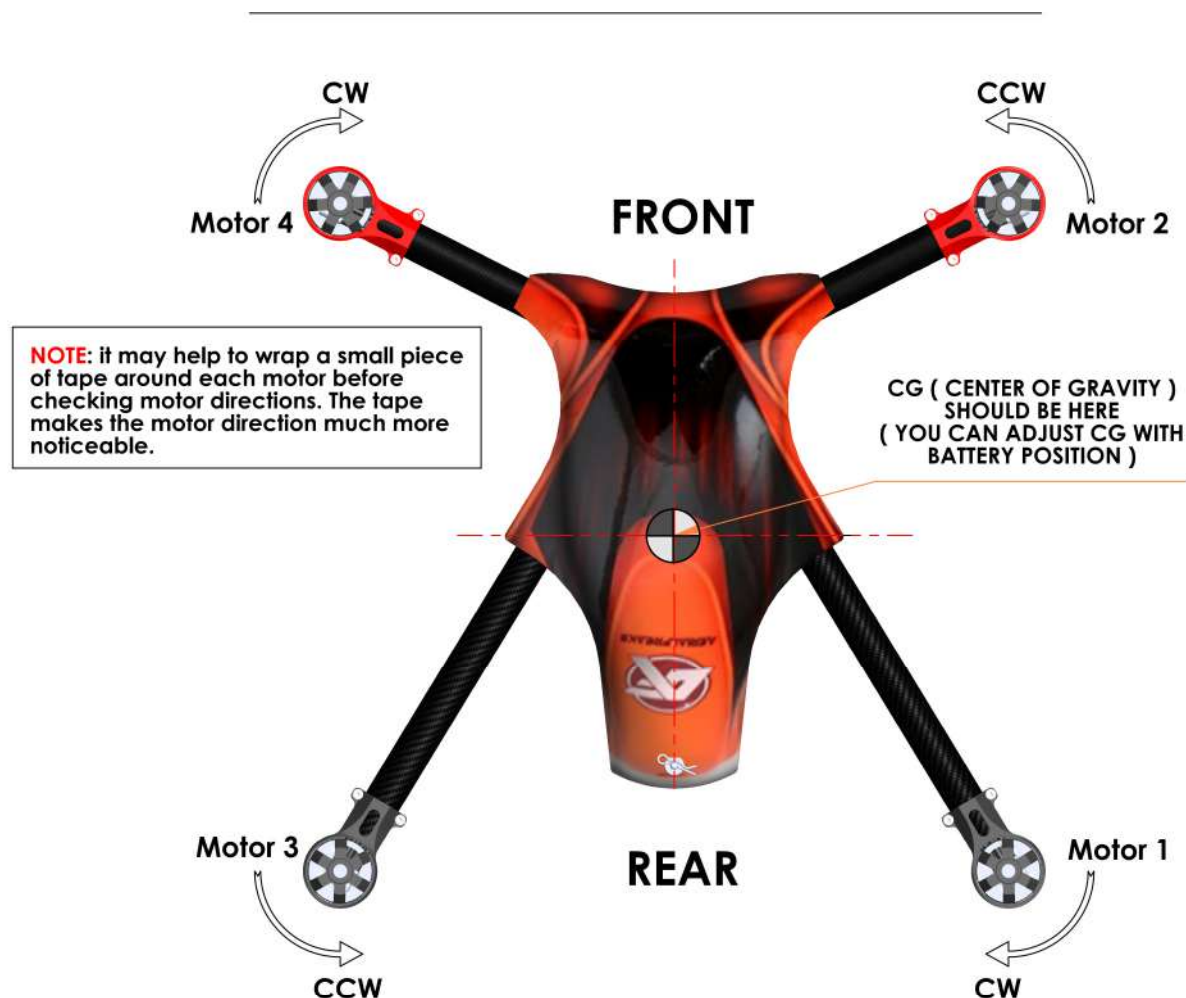
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Click **Save** when finish

Powering up For The First Time

PLEASE NOTE: DO NOT INSTALL THE PROPELLERS YET!

- 1/ Connect a 3s LiPo Battery to the connector from the Power Distribution Board. You will then hear a series of Beeps.
- 2/ Flip your Auxiliary (channel 5) switch to the fully armed position.
- 3/ Slowly raise the throttle until the motors will start spinning.
- 4/ Slightly raise the throttle little bit higher than 50%.
- 5/ Using the following diagram as a reference, ensure proper motor rotation direction. If the motors rotate in the improper direction, simply reverse any two of the motor wires that plug into the ESC. Check proper direction once again.





FLYING THE HYPER 3D-400

Once you have fully completed the HYPER 3D-400 assembly ensure a proper understanding of the arming and disarming procedure of the naze32 and to ensure proper Motor Direction.

When armed, the HYPER will always be in "3D" mode. This means that the motors are fully reactive to all your throttle commands. The only way to disarm the motors is to flip the AUX switch back to the disarmed position.

We hope you have happy and successful flights with your HYPER 3D-400. In the events of crash, we have provided you with a full extra set of propellers in your kit. This will get you into the air in no time.

Please visit our website www.aerialfreaks.com for product updates, instructional videos, and news on HYPER 3D- 400.

Enjoy flying!
AerialFreaks

HIGH PERFORMANCE
3D QUADCOPTER

YPER **3D-400**



www.aerialfreaks.com