

XAIRCRAFT X600-D

Assembling Manual

V0.3

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1. Packing Description

All the packing material for X600-D are environmental materials, you can fold for depositing facility after final assembling, or take-out for flying outdoors . There are three packages A,B,C in the box ,including a piece of high quality color printed spare parts list, which illustrates the package information bilingually ,such as product ID, description and specification. There are 20 pouches inside the box as the list said. Every package and pouch are labeled product ID, quantity and exclusive two-dimension code label.



Exterior package



Package of inner boxes

X600-D零配件 OPTIONAL SPARE PARTS				

Pictures of spare parts



Inner of package A



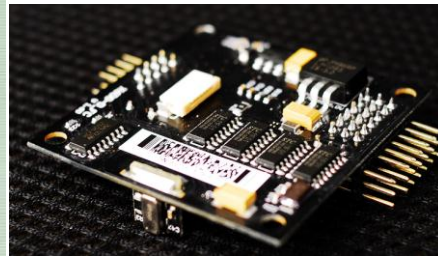
Inner of package B



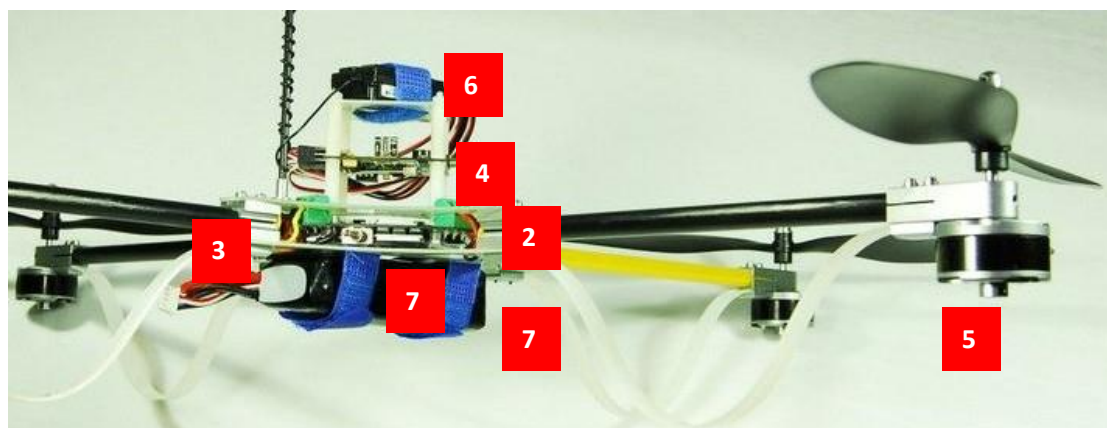
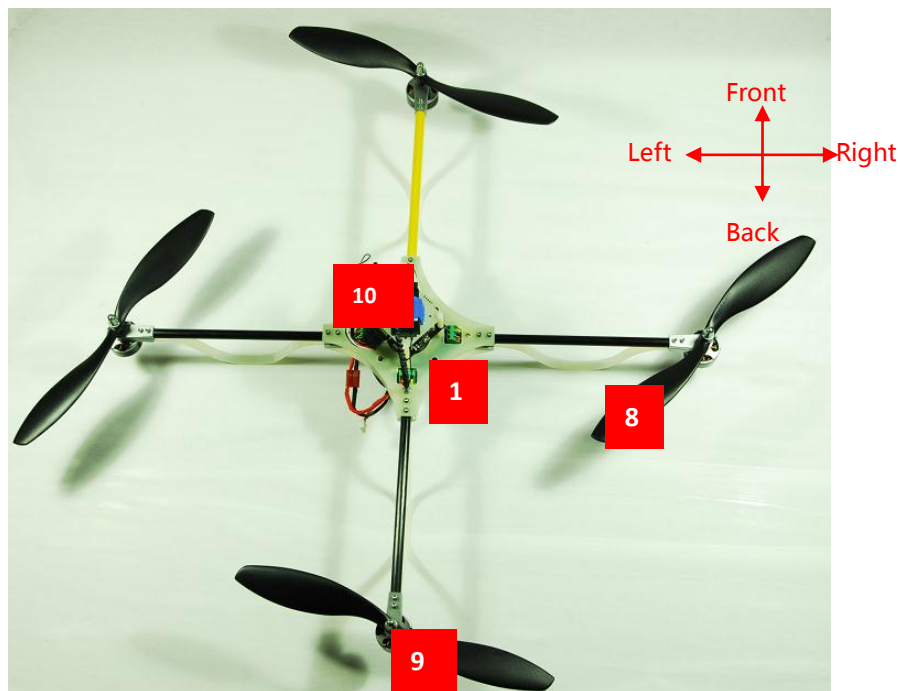
Inner of package C



Package of PCB board



2. Structure design of X600-D



- | | | | |
|----------|----------------------------------|-----------|--------------------------|
| 1 | FUSELAGE UPPER PLATE | 6 | RECEIVER(YOUR OWN) |
| 2 | ELECTRONIC SPEED CONTROLLER(ESC) | 7 | POWER(YOUR OWN) |
| 3 | FUSELAGE LOWER PLATE | 8 | CLOCKWISE PROPELLER |
| 4 | FLIGHT CONTROL BOARD | 9 | ANIT-CLOCKWISE PROPELLER |
| 5 | MOTOR | 10 | ANTENNA HOLDER |

3. Technical Specification

- 1 . Motor diameter: 250mm
- 2 . Fuselage dimension: (distance between motor shaft): 600×600mm
- 3 . Empty weight: (without battery and receiver) 620g
- 4 . Batter requirements: 3S(11.1V)15C/2200mAh
- 5 . Radio and Rx: Compatible with 4ch PPM,PCM,2.4GHz PCM of many type

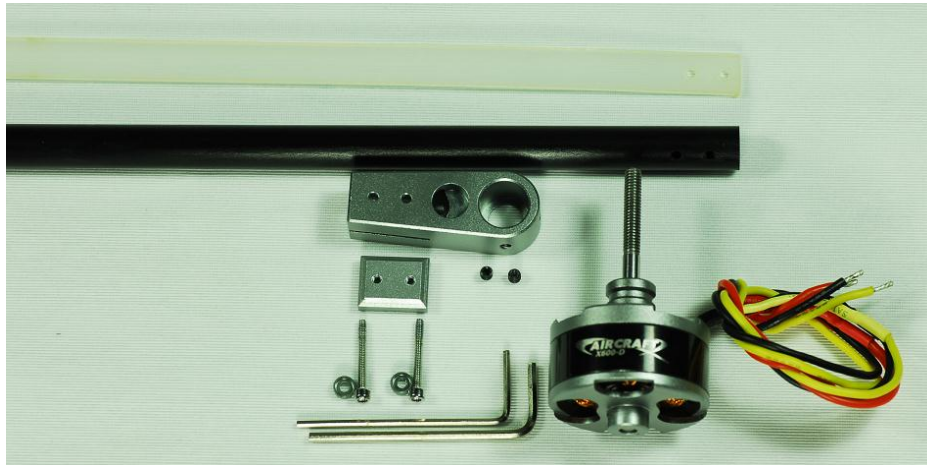
4. Before assembling

The package is furnished with two allen key for assembling, in addition you need prepare needle nose plier ,straight screwdriver

5. Install Motors

Spare Parts List :

Product ID	Goods& Description
Package A , FMA	Motor Arm
Package A , FNSS	Nylon Skid Strip
Package C , FBM	Brushless Motor
Package C , FTP	Treaded Plate
Package C , PHSM217	Hex Socket Head Screw 17mm
Package C , PDWM2	Dished Washer
Package C , PGSM1P503	Grub Screw
Package C , PAKM2,PAKM1P5	Allen Key m2,m1.5



Please notice the three distinction between parts , choose the first one for installing motors



② is shorter than①

The length of two holes of ①is shorter than②



1 Fasten the motor with motor shaft until no gap



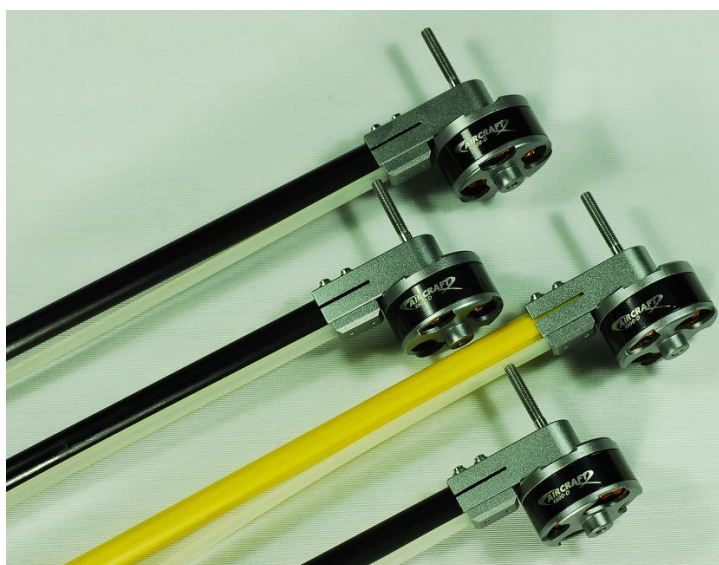
2 Fix the two black grub screws into the slit of the motor mounts



3 Please be careful when assemble head screw through pole of the motor arms with Allen key, bypass the electric wire in the arm.



4 Turn around the motor to check the smooth of rotation ,pay particular attention that whether any tiny screw attached to it

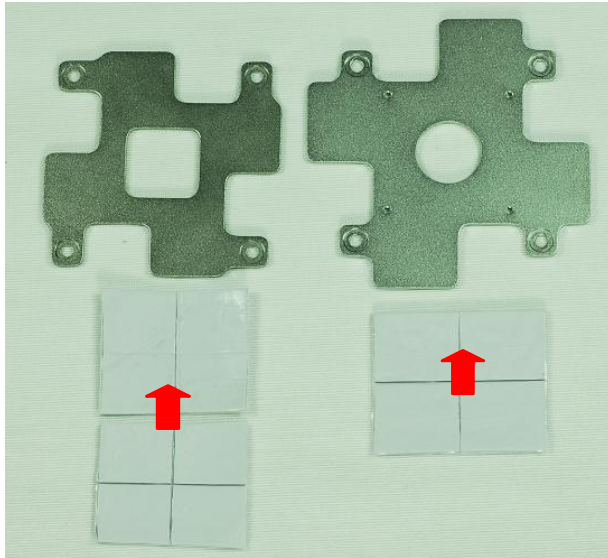


5 Finished motors is as follows , the yellow one is head

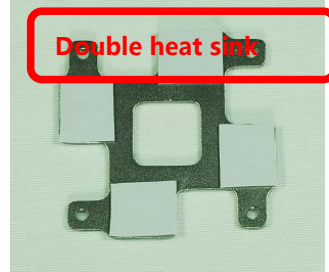
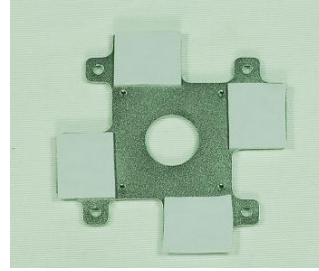
6. Install ESC board

Spare Parts List :

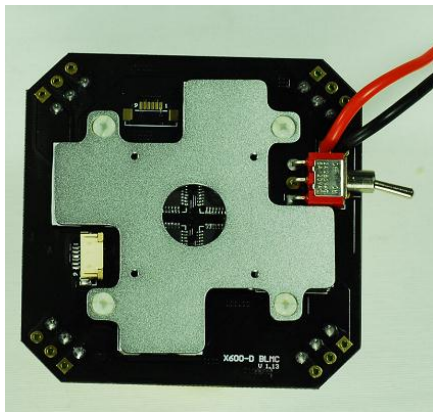
Product ID	Goods& Description
Package B , EHS	Heat Sink
Package B , EHCS	Heat Conducting Silicon
Package B , EESC	Brushless ESC Board
Package C , PNSM320	Nylon Screw
Package C , PNWM302, PNWM303	Nylon Wsher



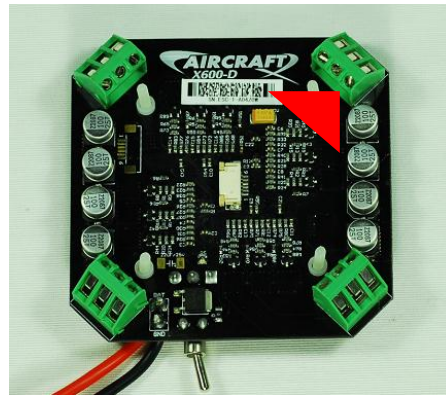
6 Open the package of heat sink and conducting silicon.



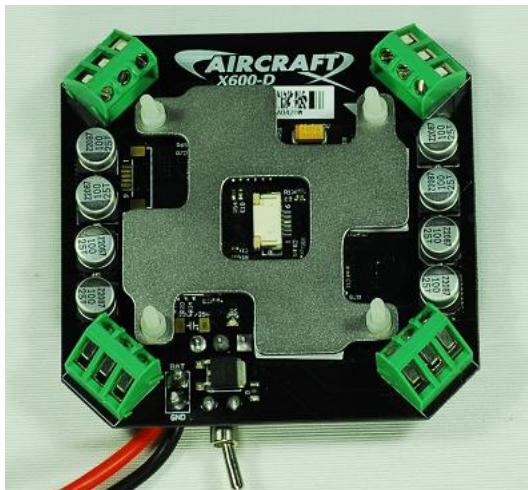
7 Attach the two heat sink with heat conducting silicon.



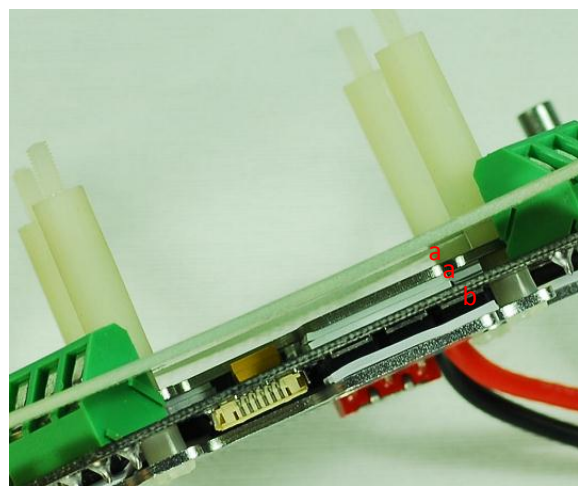
8 Fix the heat sink (among with rounded hole) above the bottom with 20mm white nylon screw



9 Notice the white arrow on the ESC board as the head direction



10 Fix the heat sink (among with square



11 Notice the position of the two kinds nylon

hole)above the top of ESC board

washer when installing the heat sink

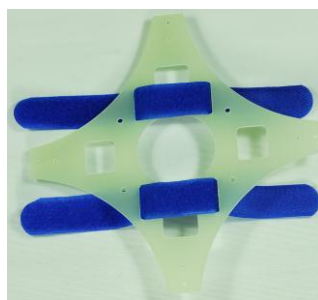
7.Install Fuselage

Spare Parts List :

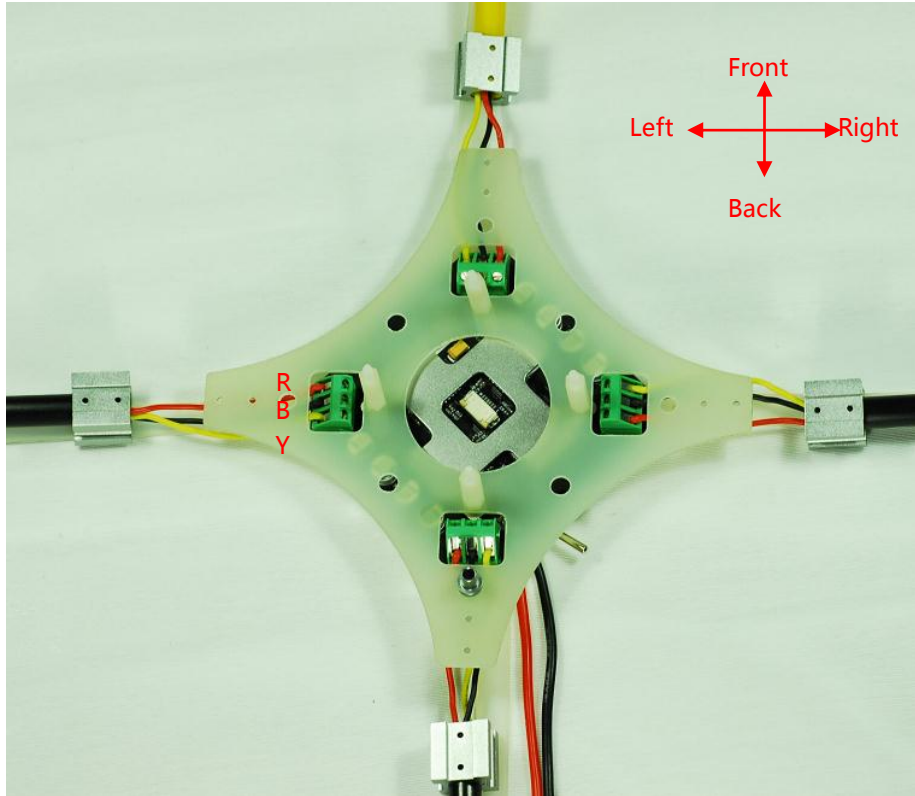
Product ID	Goods& Description
Package A , FUP	Fuselage Upper Plate
Package A , FLP	Fuselage Lower Plate
Package A , FVF	Velcro Fastener
Package C , FAH	Antenna Holder
Package C , PAHMM5	Antenna Holder Nut
Package C , FAMBI	Arm Mounting Bracket Inboard
Package C , FTP	Threaded Plate
Package C , PAKM2	Allen Key
Package C , PHSM225	Hex Socket Head Screw
Package C , PDWM2	Dished Washer
Package C , PNPM328	Nylon Pillar



12 Install the antenna holder on the upper cover

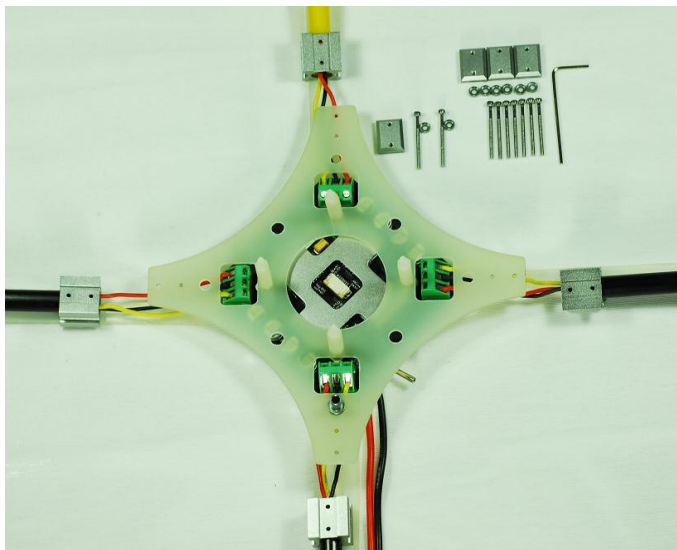


13 Instill the long velcro fastener into the lower cover

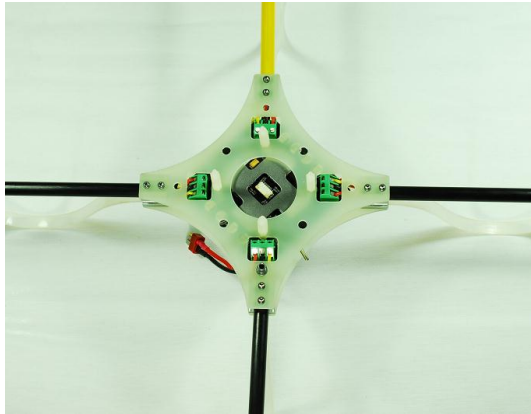


14 let the motor arm go through the Arm Mounting Bracket Inboard, fix the three electric wires into the green ?? ,connect the motor wires with ESC board, connection order clockwise :yellow, black, red

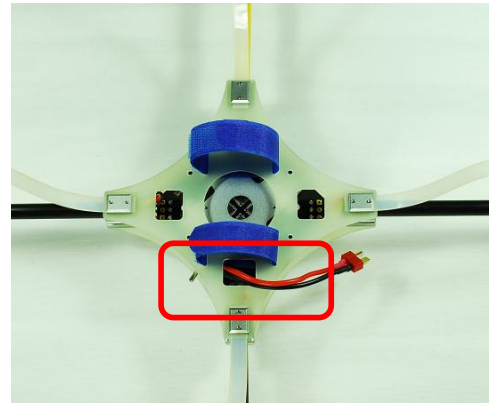
15 screw the four nylon pillars on to the upper cover



16 Connect the lower cover with the frame that have been installed



17 The top view of the fusage after installation

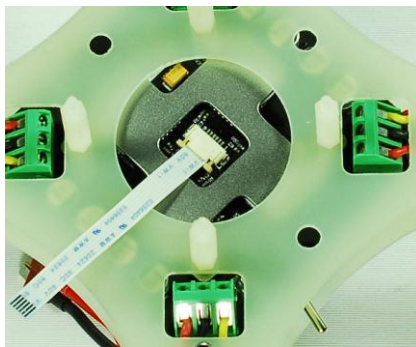


18 The top view of reverse side ,notice that the power wire go through the square hole of the lower cover

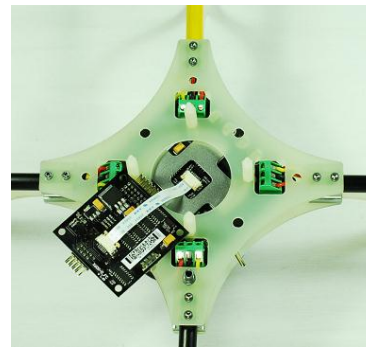
8.Install Flight Control Board

Spare Parts List :

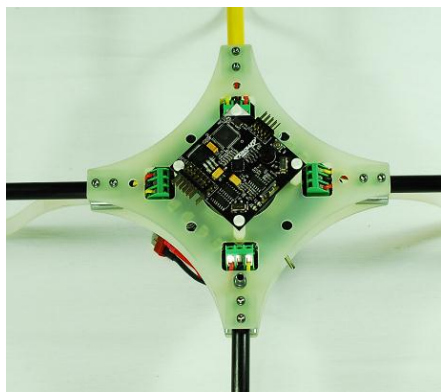
Product ID	Goods& Description
Package B , EFC	Flight Control Board
Package C , PFCWM303	Flight Control Washer



19 Open the white socket on the ESC board 'push aside the brown ears carefully' Insert the ribbon cable with the metal contacts facing upwards, then close the brown ears to locate the cable in place



20 Connect the flight board with the other side of the ribbon cable the same way, add the white flight nylon washer onto the nylon pillar to separate the flight control board with pillar.



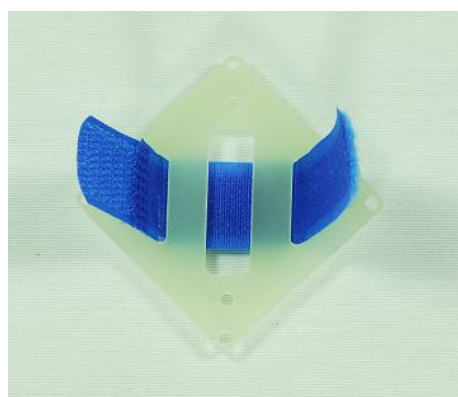
21 Fix the flight control board on the four nylon pillars .Ensure the white arrow on the board is facing toward towards the yellow motor arm.

The follow-up operation can be choose after the PC tools setting ,please refer to the document "XAircraft Tools Manual "

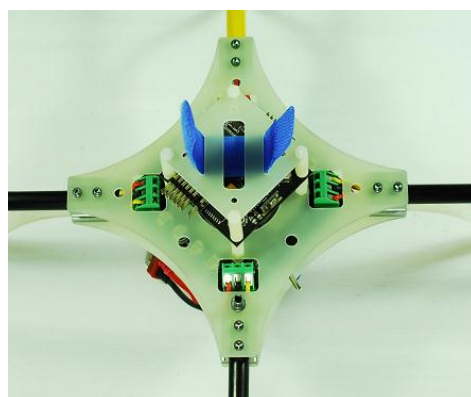
9.Install Receiver and Battery

Spare Parts List :

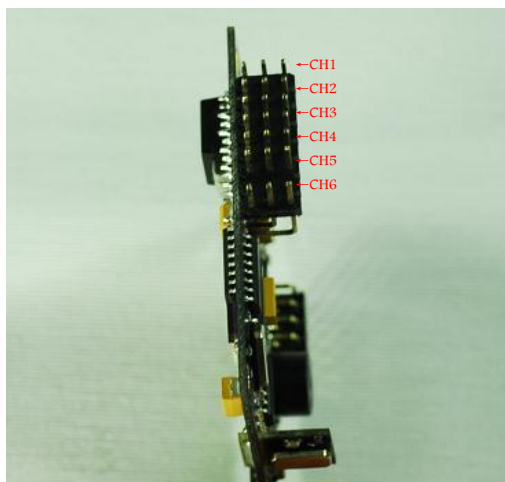
Product ID	Goods& Description
Package A , FRP	Receiver Platform
Package A , FVF	Velcro Fastener
Package C , PNPM328	Nylon Pillar
Package C , PNSNM3	Nylon Screw Nut



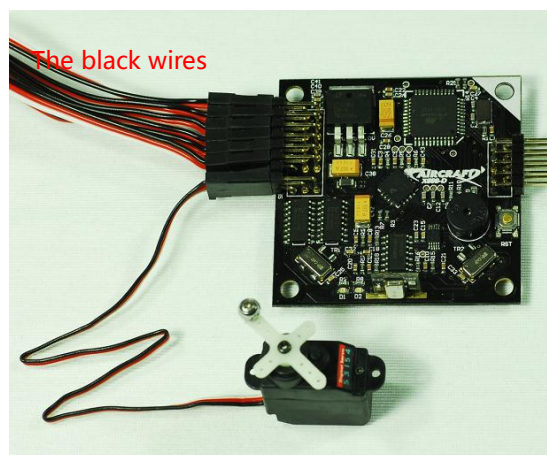
22 Add the velcro Fastener which will hold the receiver ,attach the receiver platform on to the four nylon pillar



23 Tighten the four nylon screw on the platform



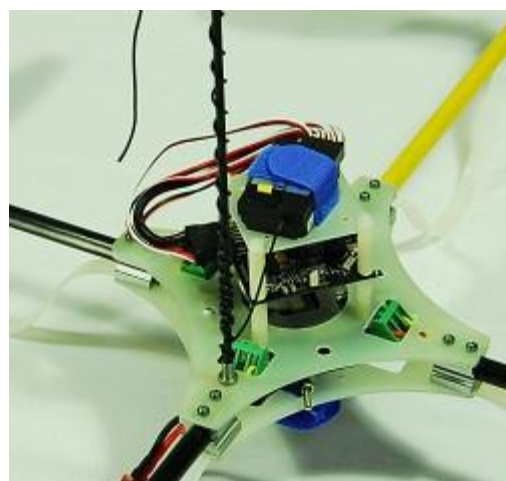
24 Check the order of the channels



25 Choose whether connect steering engine to meet flight needs



26 Fix the battery below upper cover using the Velcro fastener tightly



27 Fix the antenna into the antenna holder ,and wind the wire around the antenna

Notice: Make sure the status of switch of ESC is in the off position when connect the battery with ESC, Always be careful to check again the order of electric wires and other details to avoid unnecessary losses

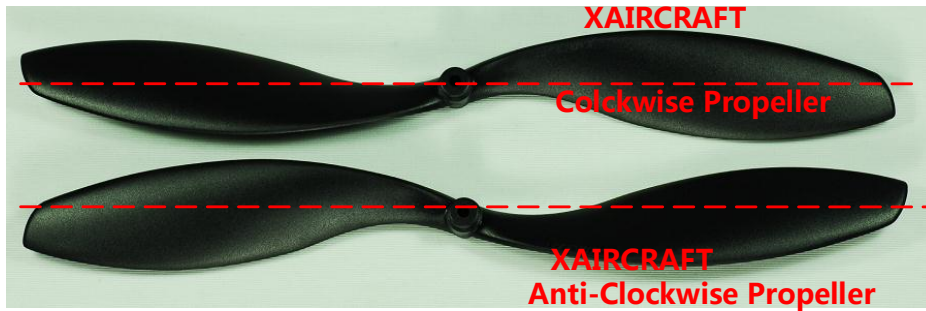
10. Install Propeller

Spare Parts List :

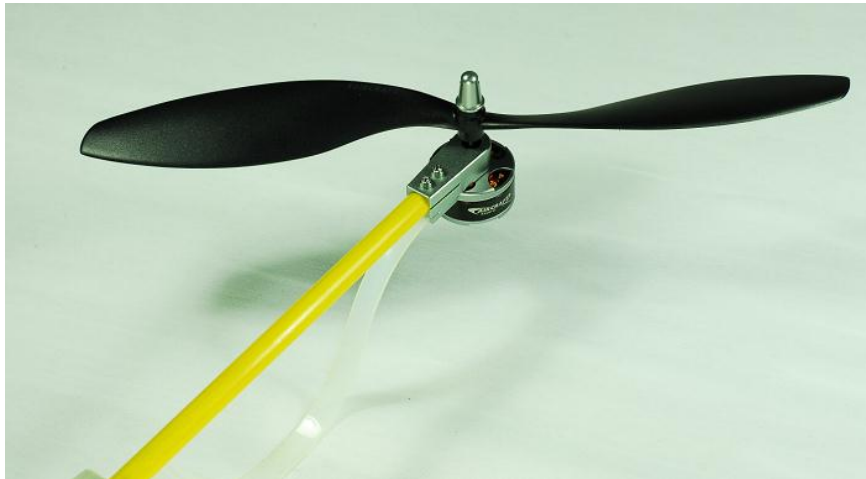
Product ID	Goods& Description
Package A , FCP	Clockwise Propeller
Package A , FACP	Anti-Clockwise Propeller

Package C , PDPN

Domed Propeller Nut



28 There are two kinds of propellers, where the XAIRCRAFT logo is on the upper side of the propeller this is an clockwise propeller, where the XAIRCRAFT logo is on the lower side this is a anti-clockwise propeller



29 Install the four propellers for the four motors, notice that install the two anti-clockwise propellers on the front and back motors ,and the clockwise propellers on the left and right motors. Finally install the domed propeller nuts on the propellers.

11. Test Motors

We' d strongly recommend that you test motors without propellers. Test method is as follows,

Look down at the direction of the rotation when flying, the front and rear motors are clockwise, the left and right motors are anti-clockwise.





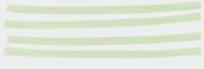
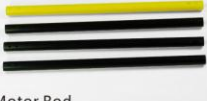




























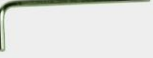

12. Package List

X600-D 装箱单 Package List

箱号 Package ID	序号 NO.	商品编码 Product ID	品名	Goods&Description	规格 Spec	数量 Qty	单位
A	1	FUP	机身上板	Fuselage Upper Plate		1	片
		FLP	机身下板	Fuselage Lower Plate		1	片
		FRP	接收机固定板	Receiver Platform		1	片
		FVF	扎带	Velcro Fastener		3	条
		FNSS	尼龙条脚架	Nylon Skid Strip		4	条
	2	FMA	电机杆	Motor Arm		4	根
	3	FCP	正桨	Clockwise Propeller		2	支
4	FACP	反桨	Anti-Clockwise Propeller		2	支	
B	1	EFC	飞行控制器	Flight Control Board		1	个
		ELINK	USB_Link	USB Link Board		1	个
	2	EESC	四合一无刷电调	Brushless ESC Board		1	个
	3	ERC	飞控电调连接线	Ribbon Cable		1	条
		EUMDC	USB 连接线	USB Mini Data Cable		1	条
		EUSBLC	USB_Link 线	USB Link Cable		1	条
		ERSC	接收机连接线	Receiver Signal Cable		6	条
	4	EHS	电调散热片	Heat Sink		2	个
		EHCS	散热硅胶片	Heat Conducting Silicon		12	片
C	1	FMM	电机夹头	Motor Mount		4	个
	2	FAMBI	机身夹头	Arm Mounting Bracket Inboard		4	个
	3	FDPN	桨夹	Domed Propeller Nut		4	个
		FAH	天线座	Antenna Holder		1	个
	4	FTP	螺母片	Threaded Plate		8	个
	5	PNPM328	尼龙顶柱	Nylon Pillar	M3×28mm	8	个
	6	PNSM320	尼龙螺丝	Nylon Screw	M3×20mm	4	个
		PNSNM3	尼龙螺母	Nylon Screw Nut	M3	4	个
	7	PNWM302	尼龙垫片	Nylon Washer	M3×2mm	8	个
PNWM303		尼龙垫片	Nylon Washer	M3×3mm	4	个	

箱号 Package ID	序号 NO.	商品编码 Product ID	品名	Goods&Description	规格 Spec	数量 Qty	单位
		PFCWM303	飞控板垫片	Flight Control Washer	M3×3mm	4	个
	8	PHSM217	内六角螺丝	Hex Socket Head Screw	M2×17mm	8	个
		PHSM225	内六角螺丝	Hex Socket Head Screw	M2×25mm	8	个
		PAHMM5	螺母	Antenna Holder Nut	M5	1	个
	9	PDWM2	垫片	Dished Washer	M2	16	个
	10	FBM	无刷电机	Brushless Motor		4	个
	11	PGSM1P503	机米	Grub Screw	M1.5×3mm	8	个
	12	PAKM2	内六角扳手	Allen Key	M2	1	个
		PAKM1P5	内六角扳手	Allen Key	M1.5	1	个

X600-D零配件 OPTIONAL SPARE PARTS

机身上板  Fuselage Upper Plate FUP	机身上板  Lower Cover Board FLP	接收机固定板  Nylon fixed plates FRP	扎带  Velcro Cable Ties FVF	尼龙条脚架  Nylon Skid Strip FNSS
电机杆  Motor Rod FMA	正桨  Clockwise propeller FCP	反桨  Anti-Clockwise propeller FACP	飞行控制器  Flight Controller EFC	USB_Link  USB Link Board ELINK
四合一无刷电调  Brushless ESC Board EESC	飞控电调连接线  Flat Cable ERC	USB连接线  USB Mini Data Cable EUMDC	USB_Link线  USB link Cable USBLC	接收机连接线  Receiver Singal Cable ERSC
电调散热片  Cooling Plate EHS	散热硅胶片  Heat Conducting Silicon EHCS	电机夹头  Motor Holder FMM	机身夹头  Cover Board Holder FAMBI	桨夹  Blade Grip FDPN
天线座  Antenna Holder FAH	螺母片  Screw Nut Plate FTP	尼龙顶柱  Motor Rod PNPM328	尼龙螺丝  Nylon fixed plates PNSM320	尼龙螺母  Motor Rod PNSNM3
尼龙垫片  Nylon Washer PNWF302	尼龙垫片  Nylon Washer PNWF303	飞控板垫片  Flight Control Washer PFCWM303	内六角螺丝  Hexagon Socket Head Screw PHSM217	内六角螺丝  Hexagon Socket Head Screw PHSM225
螺母  Screw Nut PAHMM5	垫片  Washer PDWM2	无刷电机  Brushless Motor FBM	机米  Machine processed rice PGSM1P503	内六角扳手  Screwdriver PAKM2
内六角扳手  Screwdriver PAKM1P5				