Please prepare following parts and tools:

- 1. A minimum 4 channel transmitter
- 2. A mini receiver
- 3. four mini servos (9 gram)
- 4. A Y harness
- 5. one brushless motor, for example # 2836
- 6. brushless electronic speed controller
- 7. 11.1V, 1700mAH, Li-Poly battery
- 8. glue
- 9. assembly tools, such as screwdriver, nipper pliers and so on
- 10. charger
- 11. 12V power supplier for charge

		(parts list)		
(serial number)	(name)	(specification)	(quantity)	(remark)
1	(main wing)		(one set)	Upper
2	(fuselage)		(one piece)	
3	(horizontal tail)		(one piece)	
4	(vertical tail)		(one piece)	
5	(cowling)		(one piece)	PVC
6	(canopy)		(one piece)	PVC
7	(wheel casing)		(one set)	

8	(undercarriage)		(one piece)	
9	(support of wing)		(one set)	(left and right)
10	(linkage steel wire for aileron)	Φ1*152mm	2	
11	(linkage steel wire for aileron servo)	Φ1*147mm	2	
12	(linkage steel wire for elevator)	Φ1*557mm	1	
13	(linkage steel wire for rudder)	Φ1*572mm	1	
14	(steel wire for tail pry bar)	Φ1	1	
15	(metal adjuster)	Φ1.1	2	
16	(sponge wheel)	Φ46*H9mm	2	
17	(wheel fixer)	ФЗ 1*Н5 5	2	
18	(control horn)	9*13	4	
19	(control horn)	14*17(3)	4	
20	(block)	Φ1*Φ4*11	4	
21	(male Velcro)	30*285mm		Fixing battery, controller, receive
22	(inclined support of wing)		(one set)	(left and right)
23	(servo board of aileron)		(one set)	(left and right)
24	(fixing board for aileron servo)		4	(combine
				with servo board of aileron)
25	(fixing board of wing)		1	
26	(inner hexagon screw)	Φ3*10	4	(for fixing motor)
27	(washer)	Φ3	8	(for fixing motor)
28	(self-lock nut)	M3	4	(for fixing motor)
29	(self-tapping screw w/shoulder)	Φ2*8	4	(for fixing servo)
30	(self-tapping screw w/shoulder)	Φ2*8	4	(for fixing support of wing)
31	(screw)	Φ2*10	2	(for fixing support of wing)
32	(nut)	M2	4	(for fixing support of wing)
33	(screw)	Φ3*10	2	(for fixing undercarriage)
34	(washer)	Ф3	2	(for fixing undercarriage)
35	(screw)	Φ3*25mm	2	(for fixing wheel casing)
36	(washer)	Ф3	4	(for fixing wheel casing)
37	(self-lock nut)	M3	2	(for fixing wheel casing)
38	(self-tapping screw w/shoulder)	Φ2*8	4	(for fixing canopy)
39	(screw)	Φ3*25mm	2	(for fixing wing)
40	(washer)	Φ3	2	(for fixing wing)
41	(screws)	Φ2*10	8	(for fixing
42	(nut)	M2	16	inclined support of wing) (for fixing
42		X O th O		inclined support of wing)
43	(self-tapping screw w/shoulder)	Φ2*8		(tor fixing tail pry bar)
44	(self-tapping screw w/shoulder)	Φ2*8	4	(tor fixing cowling)
45	(self-tapping screw w/shoulder)	Φ2*8	8	(for fixing cover
				board of servo

45	(nut))	M3	4	(for fixing wheel casing)
44	(decorative sticker)		(one set)	

(serial number)	(name)	(specification)	(quantity)	(remark)
1	(self tapping screw w/shoulder)	Φ2*8	8	
2	(screw)	Φ3*20	1	
3	(washer)	Ф3	4	
4	(hinge)		4	
5	(inner hexagon screw)	Φ3*10	1	
6	(screw)	Φ2*10	5	
7	(nut)	M2	5	
8	(nut)	M3	1	
9	(self-lock nut)	M3	2	



2	Please prepare these tools. (purchase separately)
3	Changes in weather, temperature and humidity may
	Cause the covering film to slacken. If necessary, use an iron to tighten the covering film. (Attention: iron should be covered with cloth, and start at low temperature. Increase temperature to proper temperature step by step. If it is too high, you may damage the film.)
4	Fixing aileron to main wing.
5	Align the center line of main wing with aileron.









Make assembly hole with wimble.

Attention: before assembly, please use remote controller to make the servol horn is restorable

17	Assemble aileron servo with $\Phi 2^*8$ self tapping screw
	w/shoulder.
18	Assembly result.







25	Connect aileron control horn harnesses and Y harness,
	and then tie servo connector with down-lead.
26	Tie the servo connector with adhesive tape.
27	Pull out Y harness from the bottom of wing by the
	down-lead.
28	Assemble steel wire for aileron servo.























66	Insert horizontal tail into fuselage. After assembly,
	exserted horizontal tail should be symmetrical on left and right.
67	Horizontal tail is vertical with the axis of fuselage.
68	Please refer to this place when you assemble horizontal
	tail.



70	Cut the film on horizontal tail along fuselage.
	Attention: only cut the film, not harm the wood beneath.
71	Take away cut film.







78	Please prepare following radio remote control equipments
	1. A minimum 4 channel transmitter
	2. A mini receiver
	3. two servo extension cords
	4. two mini servos (9 gram)
	5. A 4.8V battery (for receiver)







90	Make sure the steel wire thru metal adjuster.
91	Restore servo and servo arm, and then screw down screw
	to fasten steel wire Attention: this step is important. It is concerned with flying security. Please apply instant glue into the hole of metal adjuster so that the steel wire will not come off.
92	Please refer to the picture for the assembly position of
	receiver. Attention: attach nylon Velcro on the back of receiver
93	Assembled receiver.

|--|--|

94	1: 2836 280W
	 2: 30A 3: 3S1P 11.1V/1700mAh 15C Please prepare following powder equipments: 2836 brushless motor, the powder cannot lower than 280W. 30A brushless motor electronic speed controller. 3S1P 11.1V/1700mAh 18C Li-Poly battery.
95	Clean velcro on the exit of motor wires with knife so
	that motor wires can be pulled out easily.
96	Assemble motor as the picture shows.



99	Assembly result of motor (front view)
100	Assembly result of motor (back view).

101	Attach Velcro on the left side of motor shelf.
102	Correct assembly of brushless electronic speed controller
	And brushless motor.
	electronic speed controller and brushless motor.

103	Fix battery on fuselage by Velcro. Start motor after starting
	remote control system and connecting batteries on
	brushless electronic speed controller. Check if motor can
	run at correct direction. The correct direction is counter
	clockwise. If the run direction is incorrect, please
	exchange two pieces cords that connect brushless speed
	controller and motor. Break the circuit between battery
	and brushless speed controller when you are sure motor
	will run at correction direction.
	Attention: Please break the circuit between battery and

	brushless speed controller after flying, otherwise, battery will be damaged due to excessive discharge.
104	Make a mark on the center of cowling fixing block
	Attention: four places
105	Attach adhesive tape on fuselage according to the marks
	Attention: four places
106	Locate cowling on the head of fuselage by the four
	adhesive tapes.

107	Adjust the position of cowling.
108	Correct position of cowling.
109	Locate cowling with adhesive tapes to make sure cowling
	will not move
110	Drill holes according to the center mark of cowling fixing
	block Attention: the holes should be around the center of cowling fixing block.



114	With four pieces of Φ 2*8 self-tapping w/shoulder screws,
	fix the two supports of wing as per the preestablished fixing holes
115	Locate upper wing on support of wing with two pieces
	of Φ2*10 screws.
116	Assemble inclined support of wing with 8 pieces of
	Φ2*10 screws.
117	Assemble inclined support of wing





C.G. of Pitts is 5cm behind the front edge of bottom main wing



Remark:

Ch1 is connected to 2 Servo and Y Cable

Ch2 is connected to 1 Servo and Extension Wire

Ch3 is connected to Speed Controller

Ch4 is connected to 1 Servo and Extension Wire

*T Plug for the connection of Speed Controller and the Battery

*G Plug for the connection of Speed Controller and the Brushless Motor



Channel 1: Aileron Action

Control the right-and-left lean of the aircraft. To level the slantwise aircraft, you must make the control rod act in reverse direction. Otherwise, it will make the aircraft overturn.

Channel 2: Elevator Action

Control the aerocraft to descend or ascend. Pulling the control rod down will drive up the head, and the aeroplane will ascend. Boosting it up will make the head downhill, and the aeroplane will descend.

Channel 3: Throttle Operation

Control the power. Pulling the control rod down will minish down the power group, and boosting the control rod up will increase the power group.

Channel 4: Rudder Action

Control the swerve of the aerocraft. Turning the control rod to left will make the head of the aircraft turn left, and turning it to right will make the head turn right.

Channel 5: Landing Gear/Gyro Action

This channel is for switch variable. It is a switch to control landing gear when used for airplane state, but it will be a switch for gyroscope when used for helicopter.

Channel 6: Screw-pitch/Flaperon Action

The angle adjusting of the flaperon is for the airplane state, and the adjusting of the main screw-pitch is for helicopter state.