

1.6 User Manual



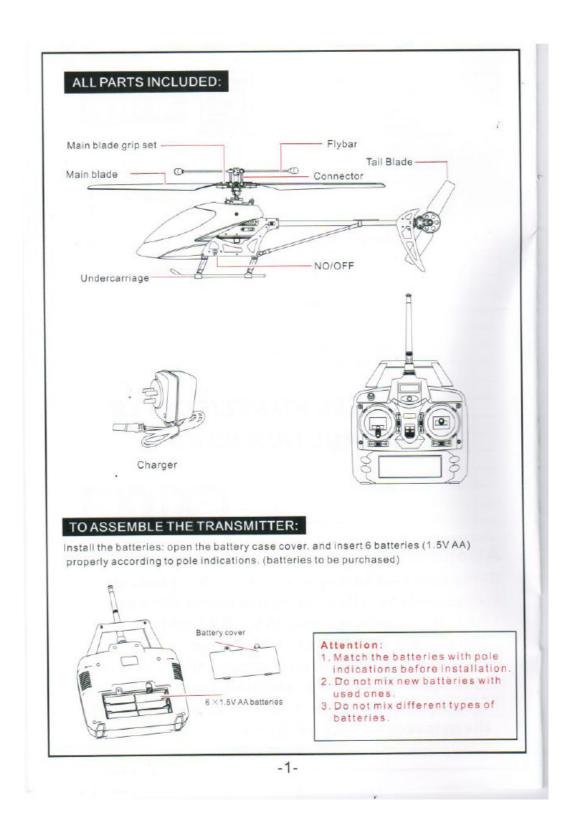




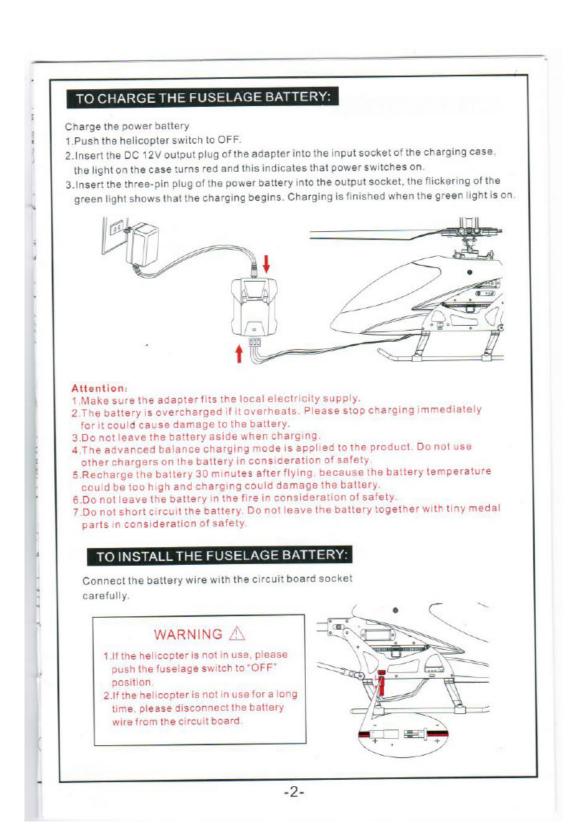




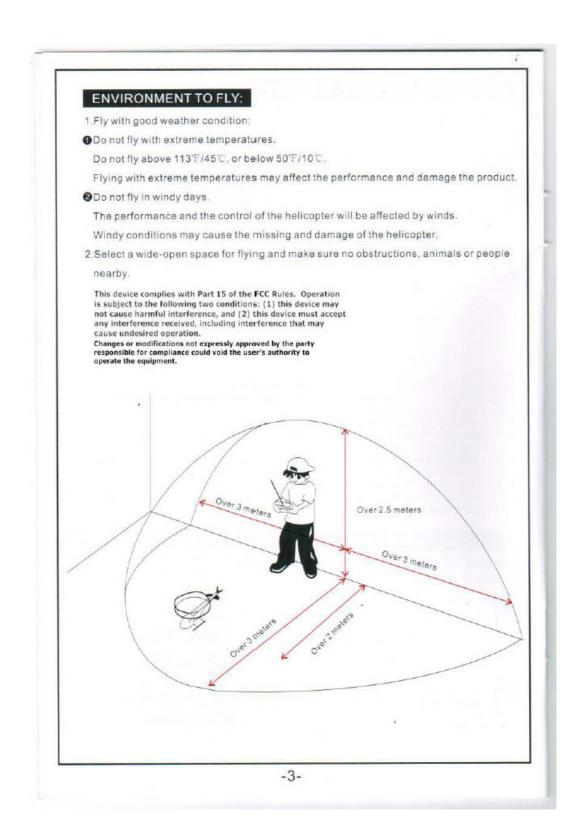




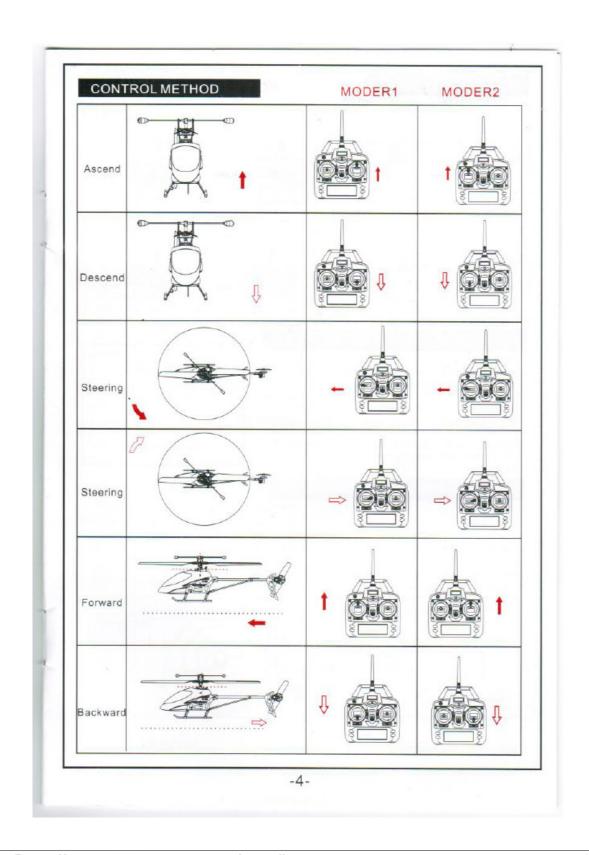




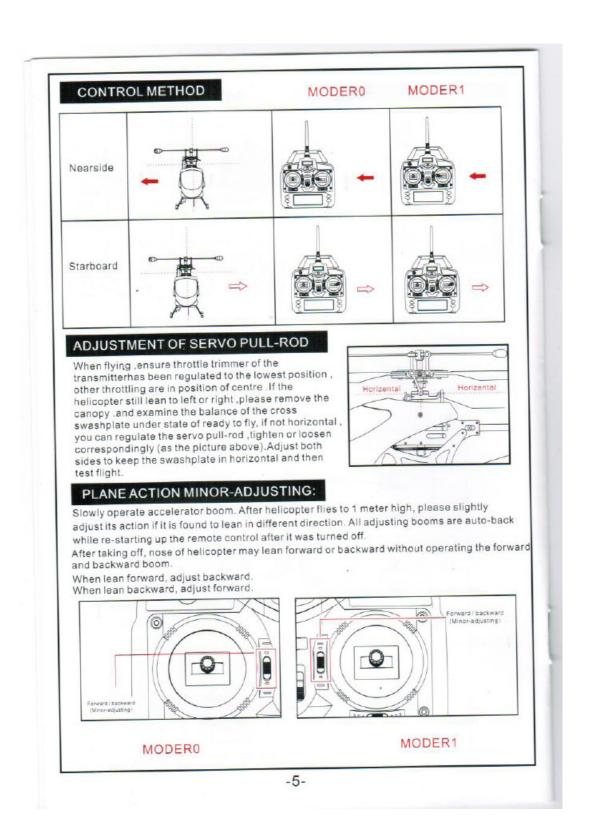




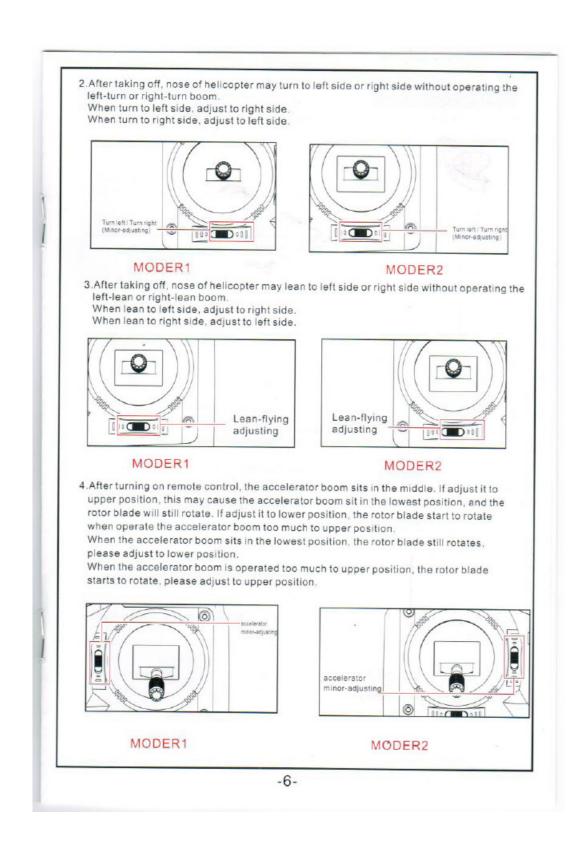




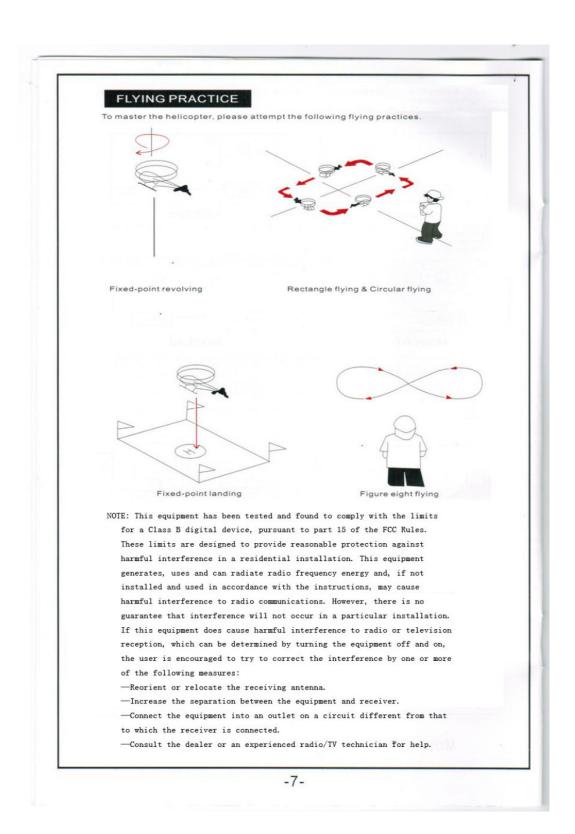














PROBLEMS AND SOLUTIONS

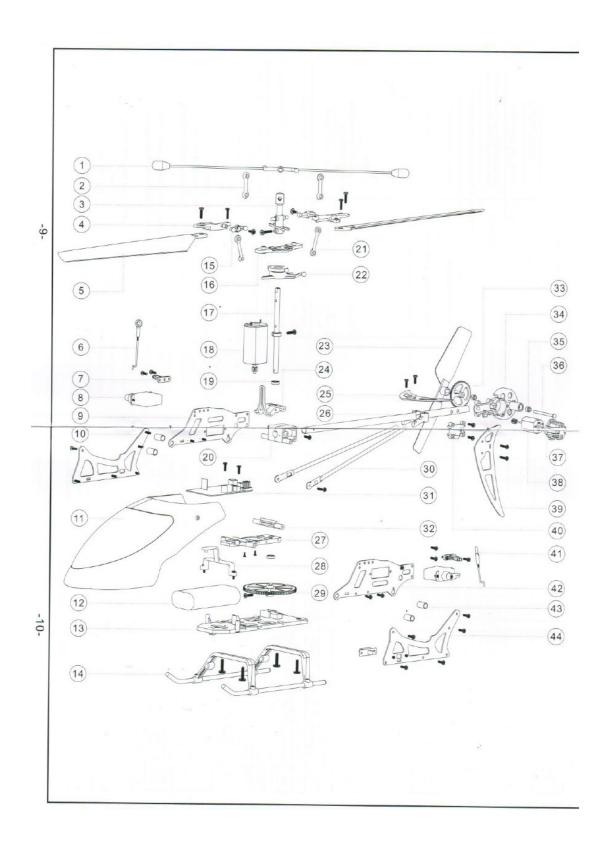
PROBLEMS	CAUSES	SOLUTIONS			
	1. The transmitter switch is on "OFF"	1. Turn on the transmitter			
Transmitter not working	2.Install the batteries improperly	2 Check with the pole indications and reinstall the batteries again			
	3. Batteries are completely consumed	3.Replace with new batteries			
Control failure	1.The transmitter switch is on "OFF"	1. Turn on the transmitter			
	2. The fuselage switch is on "OFF"	2. Turn on the fuselage			
	Code alignment is not successful.	Turn on the remote control switch and then the plane switch to make another code alignment. Turn the control rod of the throttle to the lowest position.			
	4.Fly with strong winds	Do not fly the helicopter in windy conditions			
	5. The transmitter indicator is flashing	5. replace the batteries			
Ascending failure	1. The rotation of main blades is too slow	1.Push up the throttle stick			
	2.The fuselage battery is well consumed	2.Recharge the fuselage battery			
anding too soon The throttle stick is pulled down too fast		Pull down the throttle stick slowly to perform a smooth landing			

PRECAUTIONS:

- 1.Insufficient electricity power will shorter the control distance.
- Insufficient electricity power will lead to difficulties in taking off and ascending.
- Fix the helicopter in time if there is any damage. Flying a damaged helicopter could cause injuries.
- 4.Remove the transmitter batteries if not in use for a long time in case of battery leakage.
- Avoiding dropping and crashing the helicopter for it will lead to damages and shorten the use life.
- 6.Before flying, always turn on the transmitter switch first, then the fuselage switch.
 Otherwise, the helicopter will be confused with extraneous signal and be out of control.
- 7.After flying, always turn off the fuse lage switch first, then the transmitter switch.

 Otherwise, the helicopter will be confused with extraneous signal and be out of control.

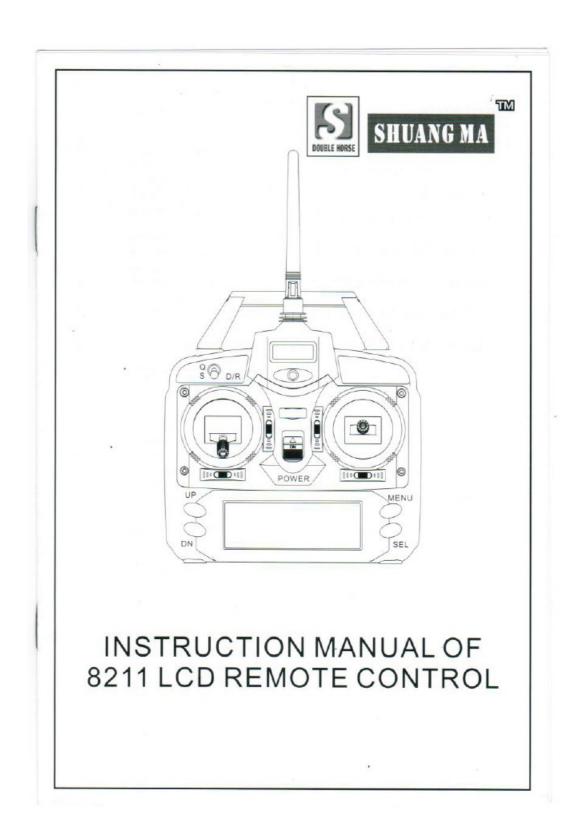






NO	Description	Dosage	NO	Description	Dosage
1	Balance Bar	1	37	tail moter cover	1
2	Balance Bar Connect buckle	2	38	tail power parts	1
3	Inner shalf	1	39	upright tail blade	1
4	Fan clip	2	40	erect empennage fixing component	1
5	main blade	2	41	left servo lever parts	1
6	Sets of right steering rod	1	42	left upper aluminium	1
7	Cabin Lock	2	43	adorning aluminium sleeve	4
8	Servo	2	44	left nether aluminium	1
9	right top aluminium	1	45		
10	right aluminium plates	1	46		
11	Cover	1	47		
12	7,4V battery	1	48		
13	Main frame	1	49		
14	Undercarriage pipe	1	50		
15	Stabilizer	2			
16	Main Blade Grip Set	1			
17	principal axis	1			
18	main blade	1			
19	7X4X2 Bearing	2			
20	tail holder	1			
21	swashplate joint	2			
22	swashplate parts	1			
23	tail blade	1			
24	principal axis holder	1			_
25	stabilizer aluminium piece	1			_
26	tail tube	1			_
27	main moter holder	1			_
28	battery holder	1			_
29	main motor gear	1			
30	Tail rod	2			_
31	PCB	1			
32	aluminium piece stand	1			
33	tail blade gear	1			_
34	tail safekeeping	1			_
35	axes sleeves	2			-
36	tail gear wheel shaft	1			







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NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



1. Preface

2.4GHz frequency modulation technology is adopted in 8211 remote control to realize automatic frequency alignment and automatic ID distribution, thus enhancing the anti-interference performance; LCD display presents the functions clearly, and the operation is simple and easy to understand.

(1). Important Statements

- The product is suitable for people with the age above 14;
- The application place must be legal remote controlled plane flying yard in the local;
- 3). Once the product is sold, we bear no safety-related responsibilities incurred due to operation, application, control and other related aspects;
- 4). If problems related to application, operation, maintenance, etc., please contact with the local dealer.

(2). Safety Cautions

Keep away from obstacles, pets and crowd;

When the remote controlled model is flying, it will have uncertain flying speed and state, thus presenting potential danger. During the flying, it must be kept away from people, high-rise buildings, high-tension cables, etc.. Meanwhile, avoid using the product in severe weathers like wind, rain and thunder to guarantee the safety of the flying personnel, and people and property around.

Keep away from moist environment;

This product is composed of many precise electronic components and mechanical components. Therefore, moisture or steam shall be prevented from entering the machine body to avoid mechanical and electronic component failures to lead to

3). Use this product in a rightful manner

Please do not refit or repair on your own; operate and use product functions within the allowable scope, and do not use the product for other illegal purposes beyond the safety order.

4). Safety operation

Please operate the remote control model according your own status and flying skills. Fatigue, poor spirit or improper operation will increase the probability of accidental risks.

5). Keep away from heat source

This product is composed of many precise electronic components and mechanical components. Therefore, it shall be kept away from the heat source and the sun. Avoid deformation or even damage caused by high temperature.

(3). Considerations before Flying

- 1). Make sure the battery of the remote control and the receiver is in saturated.
- 2). Confirm that the throttle rocker of the remote control is at the lowest position before
- 3). The order of startup and shutdown of the power supply must be abided by before the startup. During startup, turn on the remote control switch first and connect to the power supply of the plane; during shutdown, disconnect the power supply of the plane first and turn off the remote control switch. Incorrect order of startup and shutdown may lead to the condition that the model is out of control so as to affect the safety of the flying personnel and others. Please develop a habit for correct startup and shutdown.



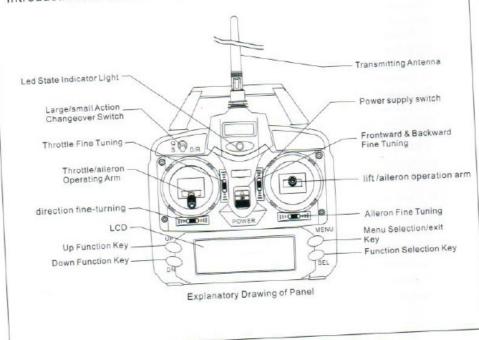
2. Product Characteristics

- 1. The product adopts 2.4G frequency hopping technology. It can automatically align codes and distribute ID upon startup and thus easily realize the interchange of
- 2. The LCD display function menu presents direct and clear functions. The setting is simple and easy to understand.
- 3. The exterior design shall conform to Human Engineering. The holding is convenient. The LCD is equipped with background light and picturesque display bars are more
- 4. The left-hand and right-hand turning and switchover of aileron functions can be automatically realized through setting.
- 5. The throttle control curve adjustment is suitable for the flying personnel in different stages.

3. Product Specifications

Coder-----4-channel microcomputer system Frequency-----2.4GHz frequency hopping Consumption current-----≤120mA Applicable battery---1.2VX6AA nickel-cadmium battery (7.2V 600mAh) or 1.5VX6AA alkaline cell

Introduction to Product Functions



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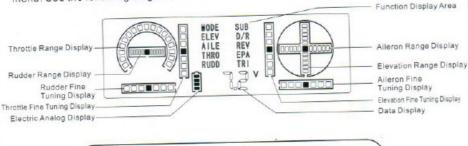


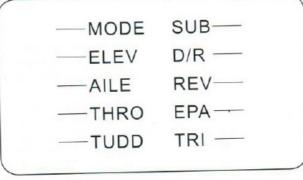
- 1. LED state indicator light: after the remote control switch is turned on, the indicator light blinks quickly and code alignment alarm sound begins automatic code aligning; the alarm sound indicating completion of code alignment stops, and the indicator light is on normally to enter the startup menu. When low-tension alarm occurs, the indicator light will blink slowly.
- Big/small action changeover switch (D/R): it is used to quickly switch big and small forward/backward, side flying and turning actions.
- 3. Up function key (UP): adjust value upward.
- Down function key (UP): adjust value downward;
- Menu selection/exit key (MENU): press on this key for 2 seconds to enter the menu where
 various menu functions can be selected in order; long press the key for 2 seconds after
 the setting is complete to save and exit to startup menu.
- Function selection key (SEL): select various functions including ELEV\AILE\THRO\RUDD
 after entering the menu.

Introduction to Function Menu

Startup menu

After the remote control switch is turned on, the indicator light blinks quickly and code alignment alarm sound begins automatic code aligning; the alarm sound indicating completion of code alignment stops, and the indicator light is on normally to enter the startup menu. See the following diagram:





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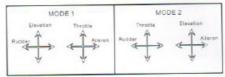


Function menu adjustment

In the startup menu, press on MENU for 2 seconds, and MODE begins to blink to enter function menu setting. After the setting is complete, press the key for 2 seconds, then save and exit to startup menu.

 MODE: Mode switchover. When MODE begins to blink, UP or DN shall be pressed shortly for setting. The left-hand throttle is MODE 1 while the right-hand throttle is MODE 2. See the





MODE value must be in line with the left-hand throttle and right-hand throttle matched with the remote control; otherwise, it may cause injury. When the remote control adopts left-hand throttle, MODE 1 is set; when the remote control adopts right-hand throttle, MODE 2 is set. 2. SUB: memory fine tuning. After entering the function menu setting, press MENU shortly. Then, SUB begins to blink. The channels needing modification including ELEV\AILE\THRO\RUDD can be selected through the adjustment of SEL. Relevant channel will blink after selection. The value of relevant channel will be adjusted by adjusting UP or DN. (Adjustment scope: ELEV\THRO: F120~0~B120; AILE\RUDD: L120~0~R120. The default value is F0\L0.) See the following diagram.





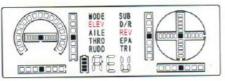
3. D/R: Big and small actions. After entering the function menu, press MENU shortly and ELEV and D/R will blink simultaneously. The channels needing modification including ELEV\AILE\ RUDD can be selected through the adjustment of SEL. Relevant channel will blink after selection. The value of relevant channel will be adjusted by adjusting UP or DN. Adjustment scope: 0-100. See the following diagram. When the big/small action changeover switch is in big action (Q), the parameters of the big action will be set; when the big/small action changeover switch is in small action (S), the parameters of the small action will be set.





4. REV: forward and reverse. After entering the function menu; press MENU shortly and ELEV and REV will blink simultaneously. The forward direction and reverse direction of relevant channel will be adjusted by adjusting UP or DN. Adjustment value NOR: normal; REV: reverse. See the following diagram. Default: REV



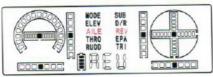


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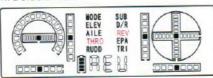
Press SEL shortly and AILE and REV blink simultaneously. The forward direction and reverse direction of relevant channel will be adjusted by adjusting UP or DN. Adjustment value NOR: normal; REV: reverse. See the following diagram. Default: REV





Press SEL shortly and THRO and REV blink simultaneously. The forward direction and reverse direction of relevant channel will be adjusted by adjusting UP or DN. Adjustment value NOR: normal; REV: reverse. See the following diagram. Default: NOR





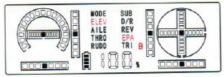
Press SEL shortly and RUDD and REV blink simultaneously. The forward direction and reverse direction of relevant channel will be adjusted by adjusting UP or DN. Adjustment value NOR: normal; REV: reverse. See the following diagram. Default: REV





5. EPA: maximum stroke. After entering the function menu, press MENU shortly and ELEV and EPA will blink simultaneously. The channels needing modification including ELEV\AILE\RUDD can be selected through the adjustment of SEL. Relevant channel will blink after selection. Take MODE 2 as the example. Switch the big/small action changeover switch to Gear Q. ELEV channel rocker is slid upward through the right operating arm. When the back-down direction of EPA displays F, adjust the maximum stroke for advancing; Slide the rocker downward. When B is displayed, adjust the maximum stroke for drawing back; adjust the value of the relevant channel by adjusting UP or DN. Adjustment scope: 0-120. See the following diagram. Default: 100%

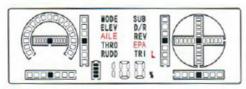




AILE channel rocker is slid towards the left through the right operating arm. When the back-down direction of EPA displays L, adjust the maximum stroke for left-side flying; Slide the rocker towards the right. When R is displayed, adjust the maximum stroke for left-side flying; adjust the value of the relevant channel by adjusting UP or DN. Adjustment scope: 0-120. See the following diagram. Default: 100%

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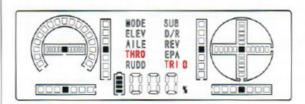


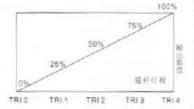
RUDD channel rocker is slid towards the left through the left operating arm. When the back-down direction of EPA displays L, adjust the maximum stroke for left-turning flying; Slide the rocker towards the right. When R is displayed, adjust the maximum stroke for left-turning flying; adjust the value of the relevant channel by adjusting UP or DN. Adjustment scope: 0-120. See the following diagram. Default: 100%





6.TRI: throttle curve. After entering the function menu, press MENU shortly and THRO and TRI 0 will blink simultaneously. Adjust the control points TRI 0 to TRI 4 of the throttle curve by adjusting SEL; adjust the values of relevant control points by adjusting UP or DN. Adjustment scope: 0-100%. See the following diagram. Default: TRI0:0%; TRI1:25%; TRI2:50%; TRI3:75%; TRI4:100%





7. Low-tension alarm: when the voltage of the battery is relatively low, the LCD analog electric quantity displays that the electric quantity is used up. LED state indicator light slowly blinks and makes \(\text{Dbeep}\) low-tension alarm sound.

Code alignment

Before code alignment, check if MODE value is in line with left-hand throttle and right-hand throttle matched with the remote control. When the remote control adopts left-hand throttle, MODE 1 is set; when the remote control adopts right-hand throttle, MODE 2 is set. After it is confirmed as consistent, the remote control switch shall be turned off.

Turn on the remote control switch and the plane switch, and the LED state indicator light of the remote control blinks quickly. The buzzer sends code alignment alarm sound to carry out automatic code alignment.

During code alignment, please turn the control rod of the throttle to the lowest position. If it is not in the lowest position, the remote control will in a non-emission protection state. The code alignment succeeds when the rocker of the throttle is turned to the lowest position.