

WFLY[®]

WFT08X RADIO CONTROL SYSTEM PCMS 1024

INSTRUCTION MANUAL v2



NOTICE

Read the instructions before operation!

www.wflysz.com

Thank you for purchasing WFLY products!

WFT08X



SERVICE

- 1. Retailers to provide free maintenance for one year (apart from artificial damage)**
- 2. WFLY retailers will always provide life-long maintenance**

CATALOGUE

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Contents

1. WFT08X transmitter
2. 2.4GHz WFTRFS RF module
3. Battery holder for transmitter
4. Neckstrap
5. WFR09S 2.4GHz receiver
6. Li-po Voltage Regulator

WFT08X Spare Parts for 2.4GHz

1. Transmitter



2. WFTRFS
2.4GHz RF module



3. Battery Holder



4. Neckstrap



5. WFR09S receiver



6. li-po Voltage Regulator



TRANSMITTER FRONT VIEW

MODEL NO.: WFT08X
 MODULATION: PCMS 1024/PPM
 OUTPUT POWER: ≤100mW (2.4GHz);
 ≤ 700mW(35-75MHz)
 POWER SUPPLY: 1.2V x 8 (9.6V)
 CURRENT DRAIN: 200mA
 Band: 35, 36, 40, 41, 72, 75MHz

TRANSMITTER FRONT VIEW



Green light refers to power light

(when you power on the transmitter, Green light will be on)

Blue light refers to RF light

(The light will be on when RF is on and stay on normal work)

Hereunder issues are the reasons for RF light is off.

1. Doesn't insert RF module into transmitter
2. RF module is on coding
3. When you enter into SYS setting (for example: Data Transfer)
4. The modulation of your RF is not compatible with your transmitter.

RECEIVER

MODEL NO.: WFR09S

TYPE: 9 CH PPM/PCMS 1024/PCMS 4096

POWER SUPPLY: 4.8-6V

CURRENT DRAIN: 30mA

RECEIVER SENSITIVITY: -97dBm

BAND: 2.400GHz-2.4835GHz

WFR09S 9 Channel Receiver

The receiver is used for all WFLY transmitters.

1. ALL: Aileron (Channel 1)-----
2. ELE: Elevator (Channel 2)-----
3. THR: Throttle (Channel 3)-----
4. RUD: Rudder (Channel 4)-----
5. GYR: Landing Gear/Gyro (Channel 5)-----
6. PIT: Pitch (Channel 6)-----
7. AUX1: Auxiliary channel 1 (Channel 7)-----
8. AUX2: Auxiliary channel 2 (Channel 8)-----
9. Power: Input 4.8-6V-----



(There are 9 rows needles, 3 needles in each row, from the top needle to the bottom, the 3 needles are PCMS/PPM pulse, +5V and Ground.)
This receiver has fail safe function.

Characteristic

- Can effectively select the best signal
- Enhance the reliability
- Improve the response speed
- Enhance the anti-interference
- Increased use of range

WFLY 2.4GHz Operation Instructions

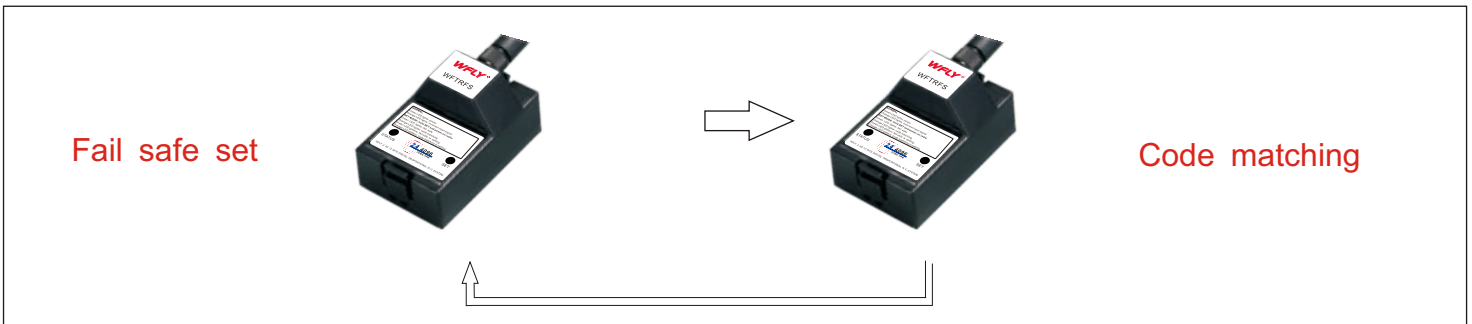
2.4GHz system can automatically recognize WFLY PCMS1024 and PPM.

1. Code matching

A. Press SET to start the receiver. The orange LED flashes, indicating the receiver waits for the code matching signal.

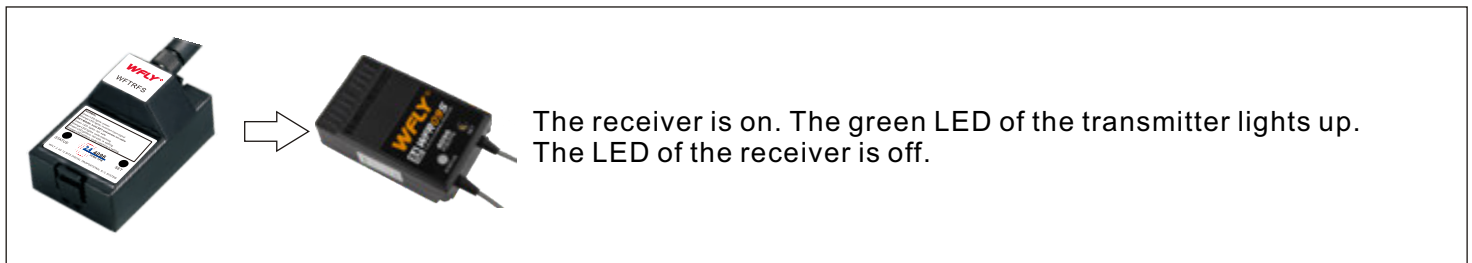
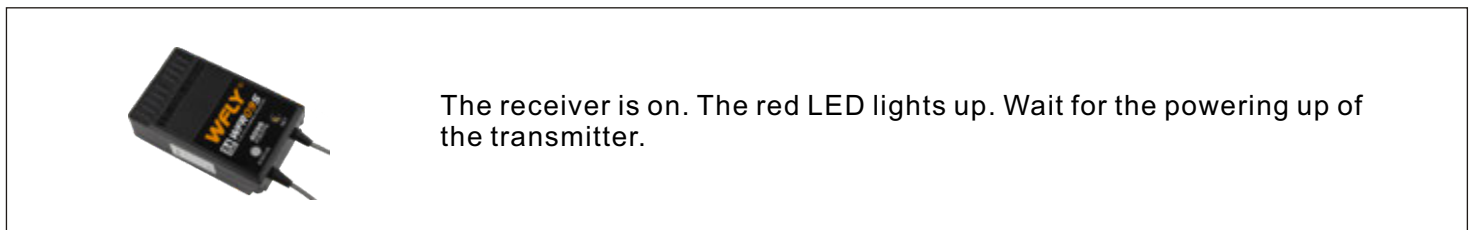


B. Hold SET of the module, then press Power to start the transmitter. Press SET again to enter the code matching function. The orange LED of the receiver lights up. Press SET and hold until the orange LED flashes, indicating the receiver enters the code matching status.



C. If the code matches successfully, the green LED of the transmitter lights up. The LED of the receiver is off.

2. Operation Instructions



3. Fail Safe Setting

- A. Power on receiver.
- B. Press SET of the module then start transmitter and hold SET for 2 seconds. The green LED flashes, indicating the transmitter enters the code matching status.
- C. The Green LED of receiver flashes, the output data of transmitter is the data of Fail Safe Setting of the receiver.
- D. Due to the heavy interference or out of normal range, the receiver enters Fail Safe. The Red LED of the receiver lights when it is in Fail Safe status.

Note: If you need 35MHz to 75MHz, WFLY will supply FM receiver and FM RF module

RECEIVER

MODEL NO.: WFR08-P

TYPE: 8CH Software decoding PPM

POWER SUPPLY: 1.2V x 4 (4.8V)

CURRENT DRAIN: 20mA

WEIGHT: 19 g

DIMENSION: 44.88mm x27.90mm x16.39mm

BAND: 35, 36, 40, 41, 72, 75MHz

There is the function of fail safe

WFR08-P 8 Channel Software decoding Receiver (PPM)

The receiver is used for WFT09(S)/08X transmitter.

1. AIL: Aileron (Channel 1)-----
2. ELE: Elevator (Channel 2)-----
3. THR: Throttle (Channel 3)-----
4. RUD: Rudder (Channel 4)-----
5. GYR: Landing Gear/Gyro (Channel 5)-----
6. PIT: Pitch (Channel 6)-----
7. AUX1: Auxiliary channel 1 (Channel 7)-----
8. AUX2: Auxiliary channel 2 (Channel 8)-----
9. Power: Input +4. 8-6V-----



The setting for fail safe:

Receiver connected to the battery (transmitter don't be opened), wait 16 seconds or so, the red LED flashes, make sure every channel has been putting in the location you need, then open the transmitter(that is the data receiver output after the out-of-control protection , for example: throttle is set to 10%, the direction is set to 60%, then when entering the out-of-control protection the receiver output data is throttle 10%, the direction 60%)



Trainer function

Two WFT08X transmitters can transfer data between each other or act as trainer.

Setting Method :

- 1).Data transfer function: use Trainer/Data transfer cable to interconnect two WFT08X transmitters.
Select "Send data/Receive data" in SYS setting to transfer the data.
- 2).Trainer function: use Trainer/Data transfer cable to connect two WFT08X transmitters.
Insert RF module to the trainer transmitter, student transmitter doesn't insert the RF module.
Flip the Trainer switch to enable the student transmitter. By flipping the trainer switch again, the student's transmitter signal will be disabled and the trainer controls the aircraft exclusively.

FLYING SAFETY WARNINGS

Special Symbol Instruction

To use the product safely, please pay attention to the instructions as follows.

Please pay special attention to the symbol as follows:

- ⚠ **Dangers** If you use it without proper operation, it is possible that you hurt yourself or others seriously or may even cause death.
- ⚠ **Warnings** If you use it without proper operation, it may cause harm to you and others as well as it could cause damage to third party property.
- ⚠ **Notices** If you use it without proper operation, it may cause you to hurt slightly or damage things, but it won't hurt you seriously normally.
- ⚠ **Notices** Children under 14 must be accompanied and instructed by adults!
- ⚠ **Notices** Always turn on the transmitter first, then the receiver. When turning off the system, turn off the receiver first, then the transmitter.

Flying Notice(warning) ⚡ **Forbiddance!** ⚠ **Obligation!** ⚠ **Warning!**

Same frequencies can't fly at the same time.



Two radios transmitting on the same frequency will cause an airplane to crash, even when the modulation (AM, FM, PCM) is different.



Do not fly at night, during rain or in strong wind, as you risk damaging your equipment. This device is not water-proof.

Checking



Please check that all servos work properly and eliminate all problems before operating your model. (If the radio bounces after turning off the power, there may be some disturbances, in this case, please change your channel by exchange crystals)

FEATURES

Computerized transmitter.

132 x 64 FSTN LCD, easy operating keys.

Metal slab shell.

Adjustable antenna base.

Tightness and length of the control stick can be adjusted freely.

Excellent feeling on the stick.

Full digital trim.

Fully exchangeable RF modules.

Trainer function.

3 independent timers, all can be set to count down or increment.

PPM, PCM and PCMS 1024 modulation supported.

Multi-mixing function.

All curves have up to 7 adjustable points.

User-defined switches and knobs.

Model parameters can be exchanged between transmitters.

8-model memories.

The WFT08X transmitter is compatible with FUTABA and JR (PPM) receivers.

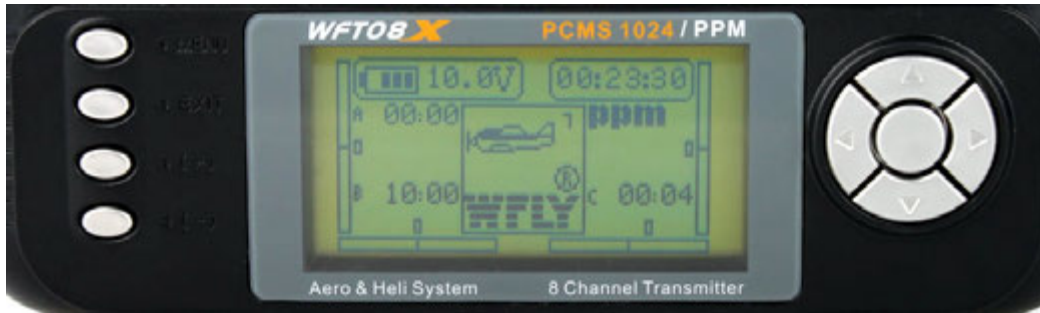
Our Dual conversion receiver(PPM) is compatible with FUTABA and JR transmitters.



Specification for the Battery of TX

1. Standard 1.2V AA--5# Ni-MH/Ni-Cd, served with 8S battery holder,
2. Standard 3S-12.6V Lipo, served with Lipo Voltage Regulator.

Keys



MENU

Menu key brings you to the function list of the transmitter.

EXIT

Exit key brings you back to the previous menu or exit edit.

+

This key will increase values. If you press long, the increasing speed will be faster.

-

This key decreases values. If you press long, the decreasing speed will be faster.

Cursor keys

Move the cursor.

OK

The key in the center of the direction keys is the OK key.

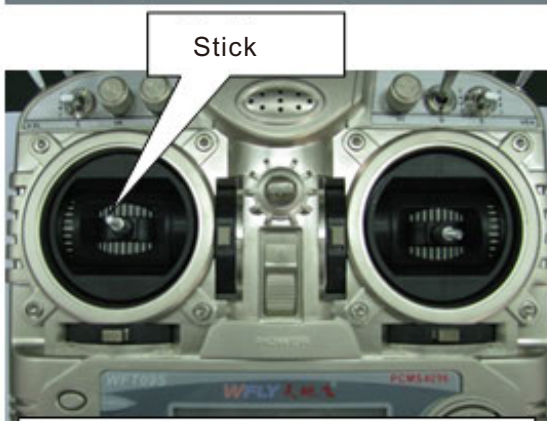
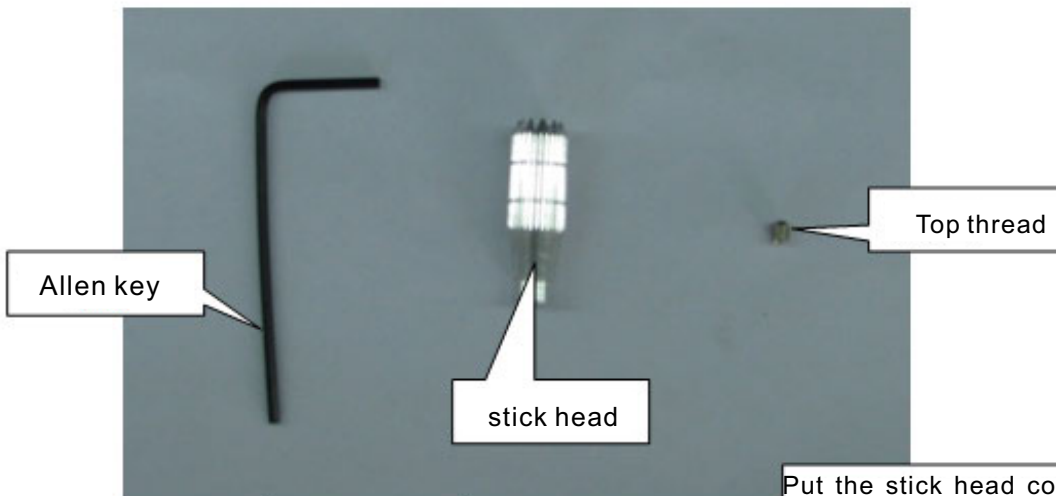
It has following functions:

Enter the function list.

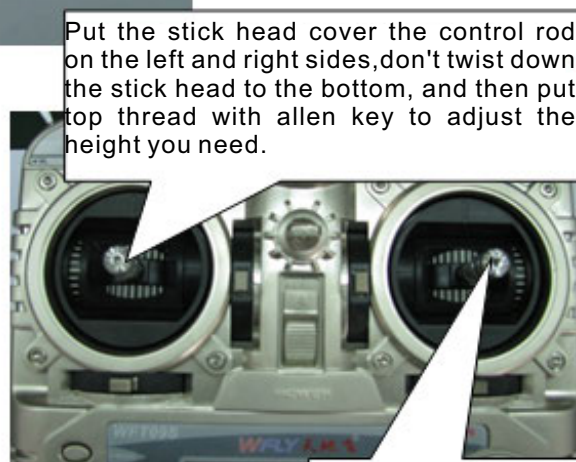
Enter the edit function.

Change parameters back to default by long pressing the key.

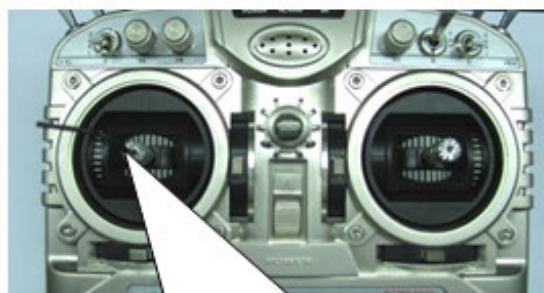
Adjust the stick head:



Adjust the height higher: first make the top thread loose with the allen key, then twist the stick head up, then, make the top thread tighten with allen key, Ok, the stick head was turned up.



Twist the top thread down from here, the height of the stick head depends on the depth of the top thread.

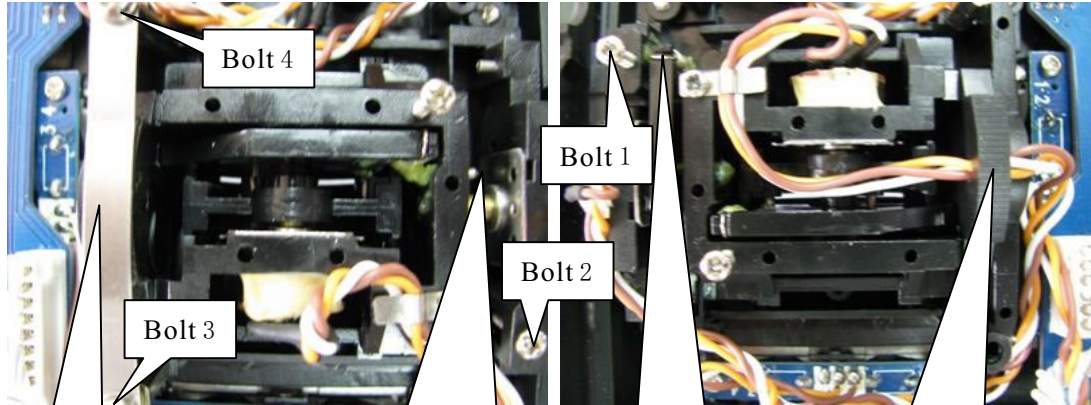


Adjust the height lower: first make the top thread loose with the allen key, then twist the stick head down, then, make the top thread tighten with allen key, Ok, the stick head was turned down.

steps:

- 1 Put the stick head on the stick.
- 2 Put the top thread in the stick head with allen key.
3. Adjust top thread in the stick head with allen key to fix the height of the stick head.

Change the throttle direction of mode1 or 2



Take the metal chip and the screw down, and put it on the similar position of the right side .

Set up release link and spring, according your habit to addjust the the tightness of screw 2 to adjust the control feeling.

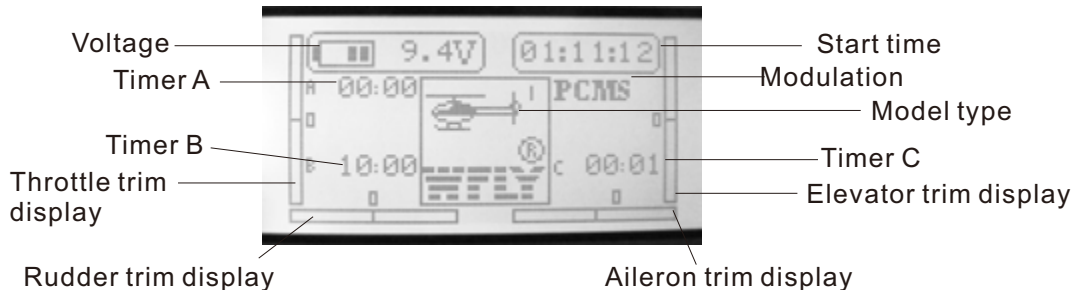
Take repositor and spring down, and put it on the left side of the location of corresponding.then twist bolt 1 down until withstand the adjust nail in case adjust nail will move away.

Put on the metal chip, according your habit to adjust the elasticity of screw 3 and screw 4 to adjust the damp of throttle control feeling.

Editing mode and function introduction

1. Start up Screen

When turn on the power switch, the LCD displays as follows.



The starting up screen displays the voltage, timer, model, aileron, throttle, elevator and rudder fine-tuning state.

Note: Press EXIT, the screen shows you the model name.

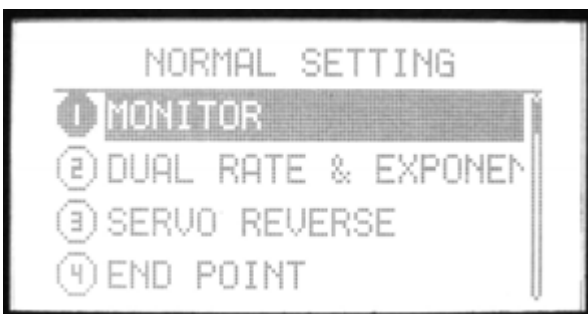


2. Menu Screen

You will find the “NORMAL SETTING”, “SYS SETTING”, “ADVANCED”.

A. NORMAL SETTING

Turning on the transmitter and pressing the menu key, the LCD displays the follows.



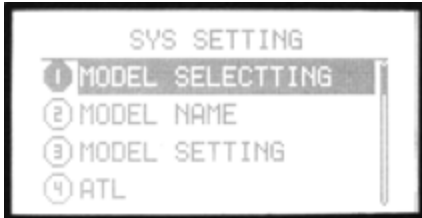
Setting method:

1. Use direction keys change parameters or use the up/down keys to browse the functions. Use the left/right key to switch pages.
2. Press OK to enter submenu. The submenu function is described in the next chapter.
3. Press EXIT key to go back from previous menus. Data is set automatically.

1. MONITOR
2. DUAL RATE & EXPONENTIAL SETTING
3. SERVO REVERSE
4. END POINT
5. SUB TRIM
6. SWASH PARAM SETTING
7. AUXILIARY CHANNELS
8. THROTTLE CURVE SETTING
9. PITCH CURVE SETTING
10. REVOLUTION MIXING
11. TRIM STEP SETTING
12. THROTTLE CUT SETTING
13. FLY MODEL SWITCH
14. THROTTLE HOLDING SETTING
15. FAIL SAFE
16. TIMER
17. ADVANCED
18. LANGUAGE

B. SYS SETTING

When pressing Menu and turning on the power switch, the LCD displays the following.



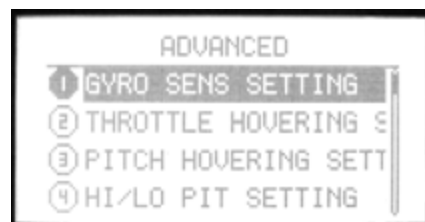
1. MODEL SELECTING
2. MODEL NAME
3. MODEL SETTING
4. ATL
5. MODULATION SETTING
6. SWASH SELECT
7. STICK SETTING
8. REST SETTING
9. SEND DATA
10. RECEIVE DATA
11. CONTRAST SETTING
12. ENGINEER MODE
13. ABOUT
14. LANGUAGE

Setting method:

1. Use direction keys to edit, or use up/down keys to browse the functions. Left/right direction keys to switch pages.
2. Press OK key to enter submenu. The submenu function is described in the next chapter.
3. Press EXIT key to go back to previous menu, parameters are saved automatically.

C. ADVANCED

1. Enter “NORMAL SETTING”, use the right direction key to switch page, select “ADVANCED”. Press OK key to enter.

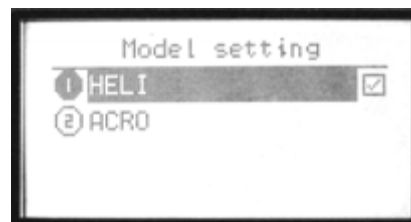
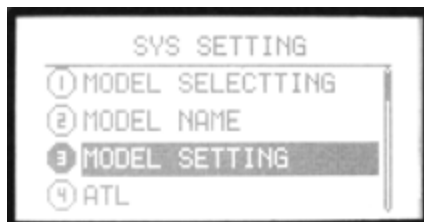


Setting method:

1. Use direction key to select the editing mode, use up/down keys to select a function item. Use the left/right direction keys to switch page.
2. Press the OK key to enter submenu. The submenu function will be explained in the next chapter.
3. Press EXIT key to back from previous menu. Data is set automatically.

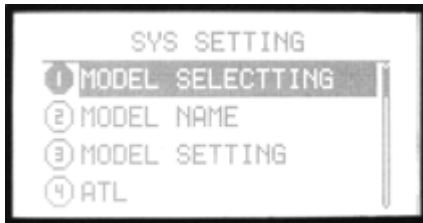
HELICOPTER

Press Menu and turn on the transmitter to enter SYS SETTING.
Select MODEL SETTING, press OK key to select the model type.
Restart the transmitter after setting.



SYS SETTING

1. Model selectting



There are 8 helicopter models. You can select any one to set.

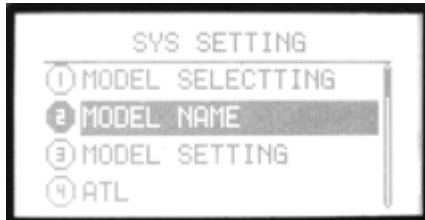
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING". Use up/down keys to select "**Model selectting**", OK to enter editing.

Steps:

1. Use up/down direction keys to select the model.
2. Press OK to select.
3. Press EXIT after setting.

2. Model name



This function is to make new names by users.

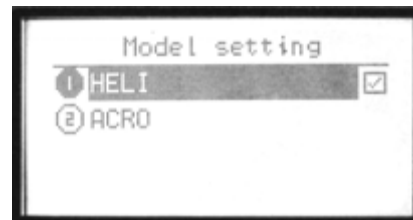
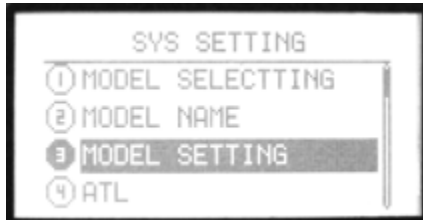
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down button to select "**Model name**", OK key to enter editing.

Steps:

1. You can edit the underlined letter.
2. Press OK key to choose the word you like.
3. Press EXIT after setting.

3. Model setting



You can select the model type. There are two types: HELI, ACRO.

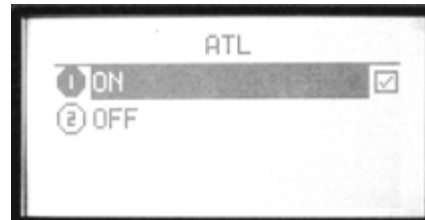
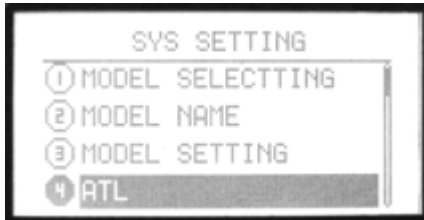
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down key to select "**Model setting**", OK to enter editing.

Steps:

1. Use up/down key to select the model type.
2. Press OK to confirm.
3. Press EXIT after setting.

4. ATL



The adjustable travel limit (ATL) makes throttle trim effective only at low throttle, disabling the trim at high throttle. This prevents pushrod jamming due to idling trim changes. This function is ON by defaults. If you are not using channel 3 for throttle, you may want trim operation the same as on all other channels. To do so, set ATL to OFF.

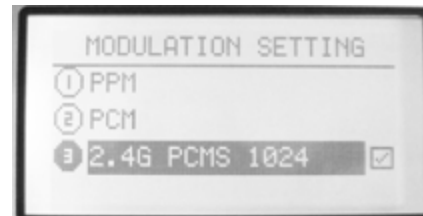
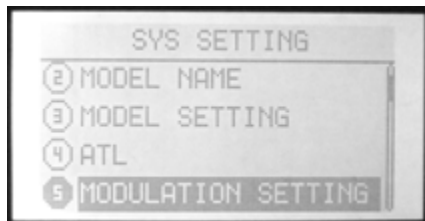
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down key to select "**ATL**", OK to enter editing.

Steps:

1. Use direction keys to select the editing part.
2. Press +/- keys to set ATL function.
3. Press EXIT after setting.

5.Modulation setting



Because of the different receiver modulation, PPM/PCM/PCMS 1024, the transmitter has to be set in accordance with the receiver modulation.

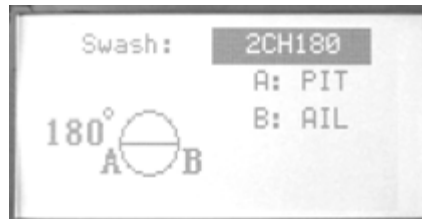
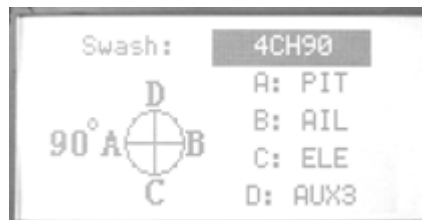
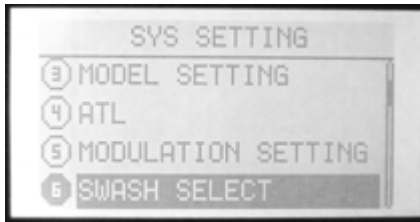
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING". Use up/down key to select "**Modulation setting**", OK to enter editing.

Steps:

1. Use direction keys to select the editing part.
2. Press OK to confirm. Restart the transmitter and it works.

6.Swash select



There are 6 kinds of swash. You can select the swash you preferred. If you use a 120 degree CCPM helicopter, the servos will realize mix function automatically. Please select the swash according to your helicopter swash type.

- 1 servo (not CCPM, normal helicopter)
- 2 servos (180 degree)
- 3 servos (90, 120, 140 degree)
- 4 servos (90 degree)

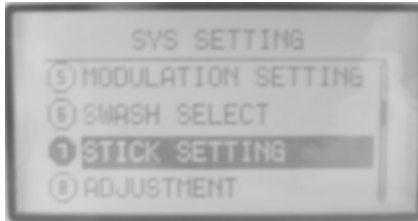
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING". Use up/down keys to select "**Swash select**", OK to enter editing.

Steps:

1. Use direction keys to select the editing part.
2. Press +/- keys to choose the swash type.
3. Press EXIT after setting.

7. Stick setting



There are 4 kinds of model, you can use up/down direction key to select the model you prefer.

- 1-aileron
- 2-elevator
- 3-throttle
- 4-rudder

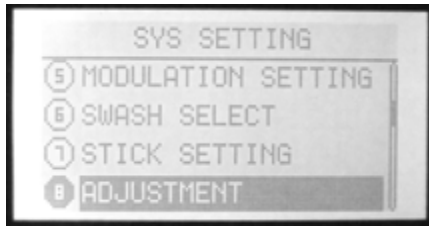
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down button to select "**Stick setting**", OK to enter editing.

Steps:

1. Use direction keys to select the editing part.
2. Press up/down keys to choose Stick mode.
3. Press EXIT after setting.

8.Adjustment



This function is to set the center, high and low points of four sticks when users change the mode I or mode II by themselves.

Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down button to select "**ADJUSTMENT**", OK button is to enter editing.

Steps:

1. Use direction button to select the editing part. Take the aileron adjustment for example.
2. Make the stick in the mid-point location. Press OK button to select any stick you want to adjust.
3. Select into the Figure 2, when the "center" highlights, press the "ok" button directly (the mid-point has been adjusted), then enter the high adjust.
4. The "high" highlights, take the stick gently in the right side (throttle /elevator in the top, aileron / rudder in the right),press "ok" button (the max. adjust is OK), enter the low adjustment.
- 5.The "low" highlights, take the stick gently in the left side (throttle /elevator in the bottom, aileron / rudder in the left),press "ok" button (the min. adjust is OK).
6. Press OK or RESET to confirm the record or reset.
7. If the record is wrong, press OK will back to step 3.

9.Rest setting



This function resets your transmitter to default.

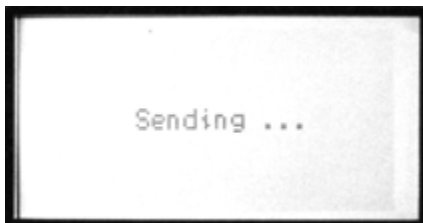
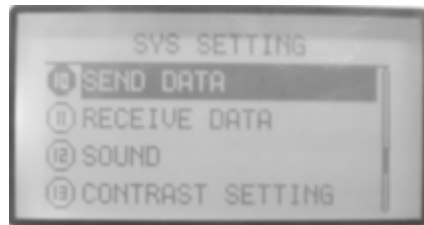
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING". Use up/down keys to select "**Rest setting**", OK to enter editing.

Steps:

1. Use direction keys to select the editing part.
2. Press +/- keys to back default.
3. Press EXIT after setting.

10. Send data



Two transmitters (WFT08X) can copy data using the trainer/data transfer cable. This function and the next one “Receive data” can be used to copy data between transmitters.

Setting Method:

Press Menu and turn on the transmitter to enter “SYS SETTING” Use up/down keys to select “**Send data**”, OK to enter editing.

Steps:

1. Select the model data you want to send out.
2. Press OK to send.

11.Receive data



Two transmitters (WFT08X) can copy data by a trainer/data transfer cable. This function and the next one “Send data” can be used to copy data between transmitters.

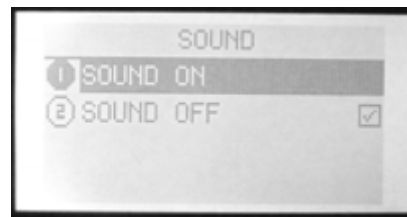
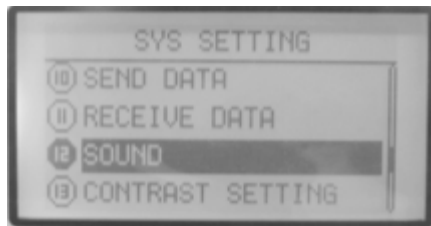
Setting Method:

Press Menu and turn on the transmitter to enter “SYS SETTING”. Use up/down keys to select “**Receive data**”, OK to enter editing.

Steps:

1. Press OK to receive data.
2. Restart the transmitter after receiving the data and it works.

12.Sound



This function is to select the sound ON and OFF.

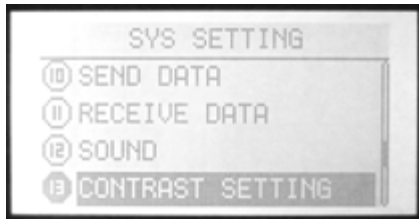
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down button to select "SOUND", OK button is to enter editing.

Steps:

1. Use +/- button to select ON and OFF.
2. Press OK button to confirm.
3. Press EXIT after setting.

13. Contrast setting



This function is to adjust the LCD brightness by increasing or decreasing the contrast value.

Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING". Use up/down keys to select "**CONTRAST SETTING**", OK to enter editing.

Steps:

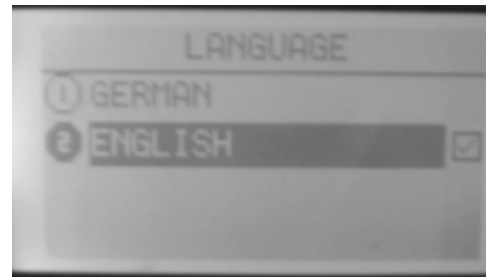
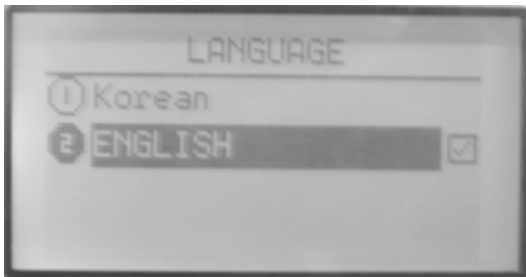
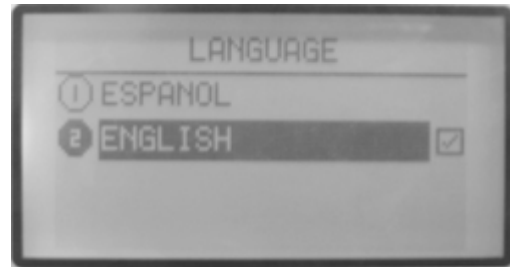
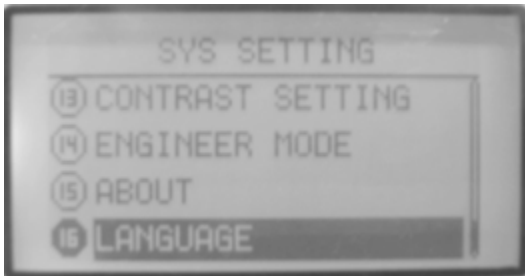
1. Use +/- keys to increase or decrease the value.
2. Long press OK to back default.
3. Press EXIT after setting.

About



This item shows the Version of WFLY radio.

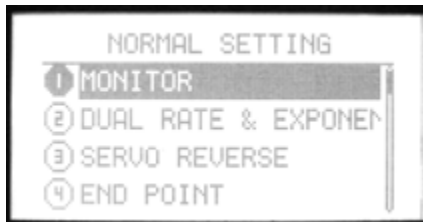
Language



This function is to select the language. The selection is as shown in the picture, if only English or Chinese menu, the function is not exist.

NORMAL SETTING(helicopter)

1. MONITOR



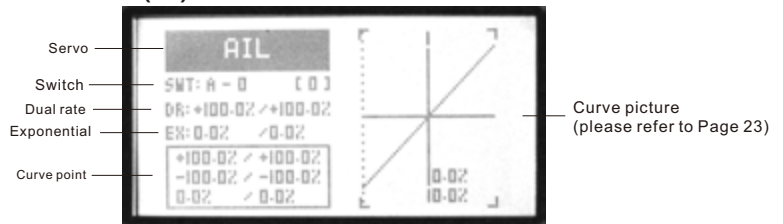
Monitor shows the stick/switch/knob movements in real time. Monitor describes the 8 channels output and the channel mixing. 3ch and 6ch is mixing.

Setting Method:

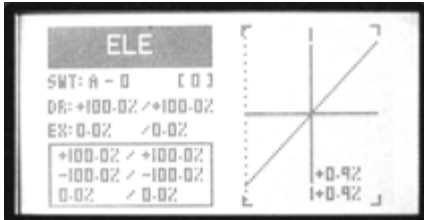
Press menu button, enter system setting, the first function is the monitor.

2. DUAL RATE & EXPONENTIAL SETTING

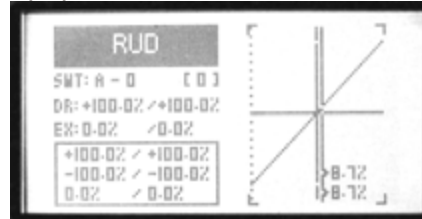
(1). AIL



(2). ELE



(3). RUD



Dual rate is to adjust aileron, elevator and rudder travel range. The range is between 0%-120%.

Exponential setting is to adjust aileron, elevator and rudder sensitivity when the sticks are around the middle. The range is between -100% to +100%.

Setting Method:

1. Select channel

Aileron, elevator and direction are selectable. Press +/- keys to select channel, OK to confirm.

2. Set the switch and its position.

Press direction keys to select "SWT", edit it. +/- keys can select function switch(A-F).

After selecting the function switch, press right direction keys to enter the switch position setting, use +/- keys to set 0, 1, 2.

3. Set dual rate

Press direction keys to select "D/R", edit it. Edit one or two parameter.

+/- keys can increase or decrease the value.

Long press OK to back default.

4. Set exponential

Press direction keys to select "EX". Exponential can adjust aileron, throttle and rudder sensitivity as the stick at the middle.

5. Set curve point (normal/advanced)

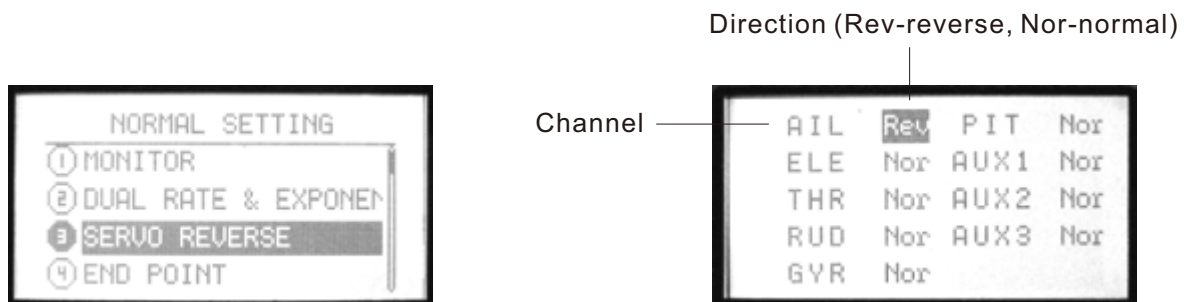
The box under "EX" shows the curve points.

Select "Curve setting" in More setting function list.

Please refer to Page 23 for detail curve setting.

6. Press EXIT after setting.

3. SERVO REVERSE



This function changes the direction of the servos.

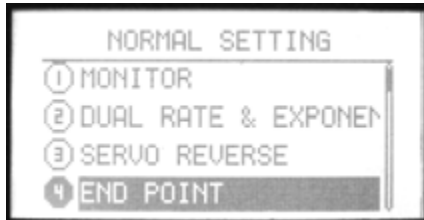
Setting Method:

Use up/down keys to select “**Servo reverse**”, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys or OK to switch the servo movement direction.
3. Press EXIT after setting.

4. END POINT



Channel	Side	Value		Value
AIL	L	100.02	R	100.02
ELE	D	100.02	U	100.02
THR	L	100.02	H	100.02
RUD	L	100.02	R	100.02
GYR	L	100.02	H	100.02

It is to adjust the end of individual servo's travel. The range is from 0% to 120%.

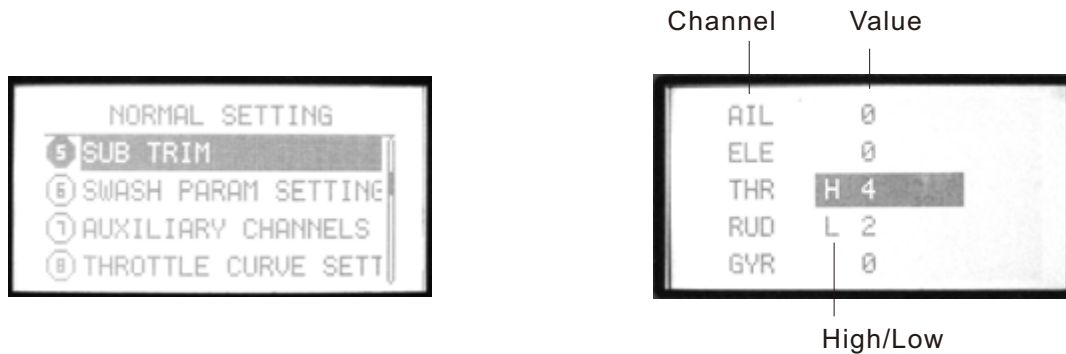
Setting Method:

Use up or down keys to select **End point**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to set the travel value. Long press OK to back default.
3. Press EXIT after setting.

5. SUB TRIM



Sub trim makes small changes or corrections to the neutral position of each servo. Range is -120 to +120, default setting is 0.

We recommend that you center the digital trims before making Sub trim changes, and that you try to keep all of the Sub trim values as small as possible. Otherwise, when the Sub trims are large values, the servo's range of travel is restricted on one side.

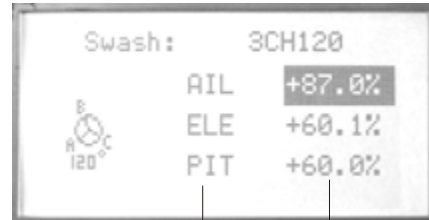
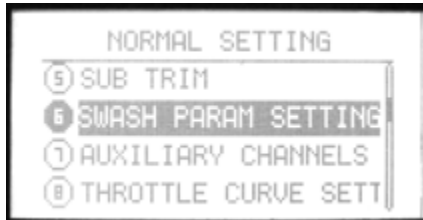
Setting Method:

Use up or down keys to select **Sub trim**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to set the trim value. Long press OK to back default.
3. Press EXIT after setting.

6. SWASH PARAM SETTING



Effecton
direction Value

This function is to adjust the aileron, elevators and pitch travel range of swash plate mixing mode.

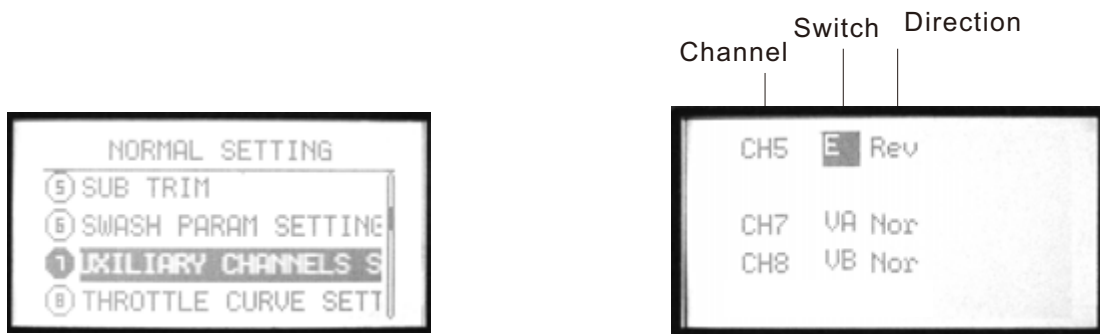
Setting Method:

Use up or down keys to select **Swash param setting**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to set the travel. Long press OK is back to default(60%).
3. Press EXIT after setting.

7. AUXILIARY CHANNELS SETTING



This function is for CH 5 to CH 8 function setting.

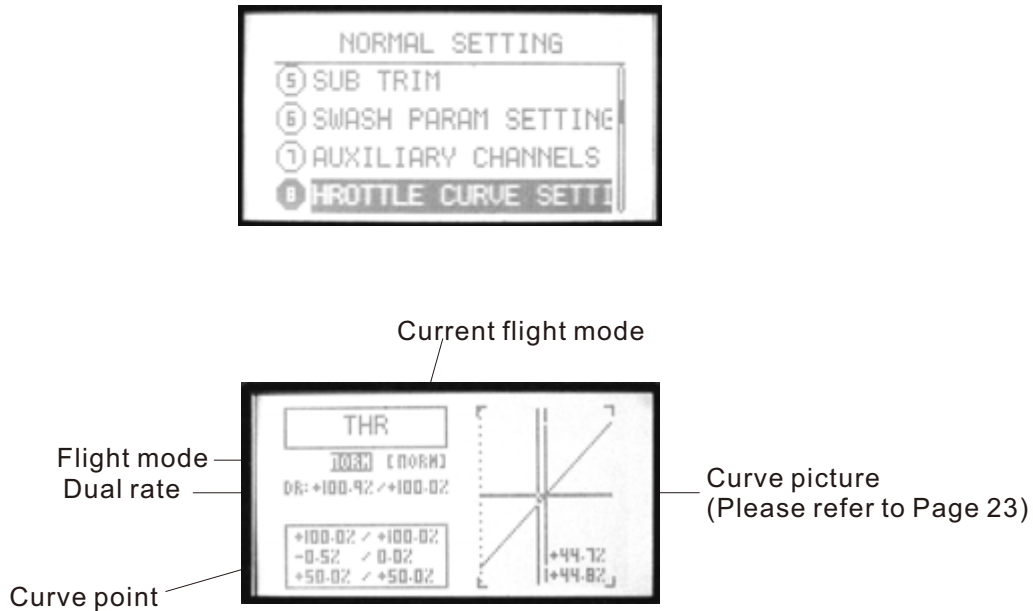
Setting Method:

Use up or down keys to select **Swash param setting**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to set the switches or knobs. The switches can be set from A to F, the knobs can be set as VA, VB, VC or none(-).
3. Use direction keys to select, and +/- keys to set normal/reverse direction of every channel.
4. Press EXIT after setting.

8. THROTTLE CURVE SETTING



Throttle curve, together with the throttle stick, can be adjusted properly to maximize engine performance at a particular pitch setting.

There are two kinds of curve settings, normal (7 points curve), advanced (2-7 points curve), the range is between 0%-120%. The transmitter can set the following curves: NORM, IDLE1, IDLE2, IDLE3.

Normal curve is based on hovering, to maximize engine performance at a particular pitch setting.

Idle curve is for engine proper work in a 3D flight, with a good match between throttle and pitch.

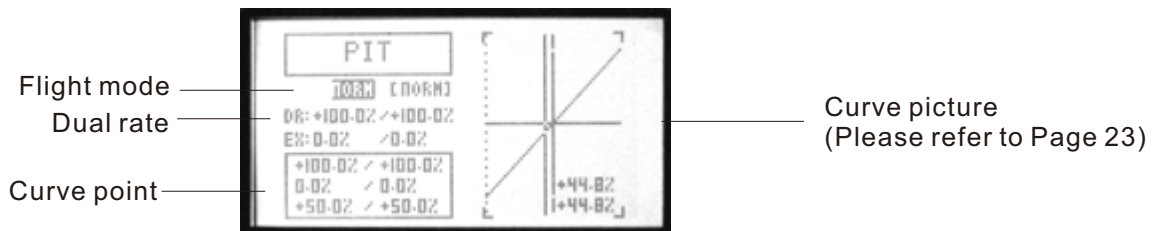
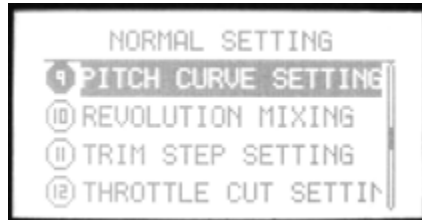
Setting Method:

Use up/down keys to select **Throttle curve setting**, OK to enter editing.

Steps:

1. Flight(NORM IDLE1 IDLE2 IDLE3)
Use direction keys to select editing part. Use +/- keys to select one curve.
2. Set Dual rate
Use direction keys to select "D/R" and edit (one or two values can be set separately or together). Press +/- keys can increase or delete the value. Long press OK is back to default.
3. Curve point setting(Normal/Advanced)
The below pane shows the points curve.
Select "Advanced setting" in "SYS setting", choose the curve.
For detail curve setting method please refer to Page 23.
4. Press EXIT after setting.

9. PITCH CURVE SETTING



Pitch curve, together with the throttle stick, can be adjusted properly to maximize engine performance at a particular pitch setting.

There are two kinds of curve setting, normal (7 points curve), advanced (2-7 points curve), the range is between 0%-120%. The transmitter can set the following curves: NORM, IDLE1, IDLE2, IDLE3.

Normal curve is based on hovering, to maximize engine performance at a particular pitch setting.

Idle curve is for engine proper work in a 3D flight, with a good match between throttle and pitch.

Setting Method:

Use up/down keys to select **PITCH CURVE SETTING**, OK to enter editing.

Steps:**1. Flight(NORM IDLE1 IDLE2 IDLE3)**

Use direction keys to select editing part. Use +/- keys to select one curve.

2. Set Dual rate

Use direction keys to select "D/R" and edit (one or two values can be set separately or together). Press +/- keys can increase or delete the value. Long press OK is back to default.

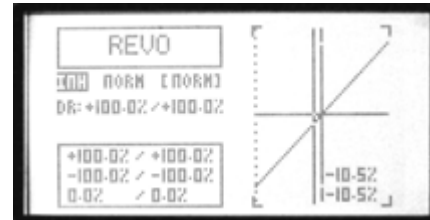
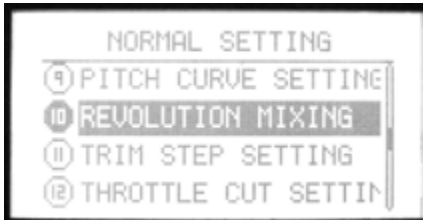
3. Curve point setting(Normal/Advanced)

The below pane shows the points curve.

Select "Curve setting" in "SYS setting", choose the curve. For detail curve setting method please refer to Page 23.

4. Press EXIT after setting.

10. REVOLUTION MIXING



This curve mix adds opposite rudder input to counteract the changes in torque when the speed and collective pitch of the blades is changed.

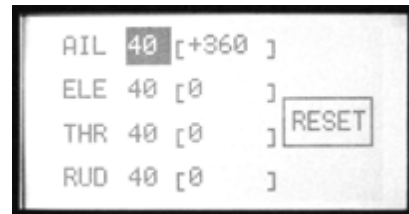
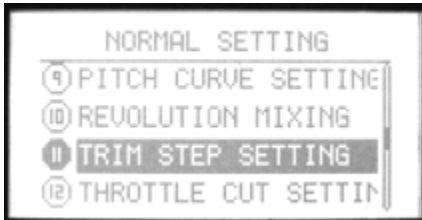
Setting Method:

Use +/- keys to select **Revolution mixing**, OK to enter editing.

Steps:

1. Flight(NORM IDLE1 IDLE2 IDLE3)
Use direction keys to select editing part. Use +/- key to select one curve.
2. Set Dual rate
Use direction keys to select "D/R" and edit (one or two values can be set separately or together). Press +/- key can increase or delete the value. Long press OK key is back to default.
3. Curve point setting(Normal/Advanced)
The below pane shows the points curve.
Select "Curve setting" in "SYS setting", choose the curve.
For detail curve setting method please refer to Page 23.
4. Press EXIT after setting.

11. TRIM STEP SETTING



This function is to change the rate at which the trim moves when the TRIM LEVER is activated. The range is from 0 to 250. Generally larger trim steps are for models with larger control throws or for first flights to ensure sufficient trim to properly correct the model. Smaller trim steps are later used to allow very fine adjustments in flight.

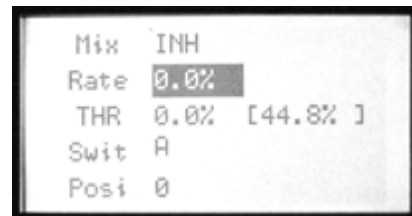
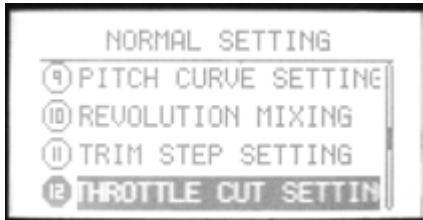
Setting Method:

Use up/down keys to select **Trim step setting**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to adjust the size of the step, select "RESET" to set all the sub-trim value to 0.
3. Press EXIT after setting.

12. THROTTLE CUT SETTING



This function is to shut off the engine at the end of a flight. The engine can be stopped with one touch of any switch, eliminating the need to move the trim to kill the engine and then readjust prior to each flight. The helicopter THR CUT includes an ON/OFF throttle position (normally a little above idle). You must move the THROTTLE STICK back below the set point before the THR-CUT function can be reset, to avoid sudden engine acceleration.

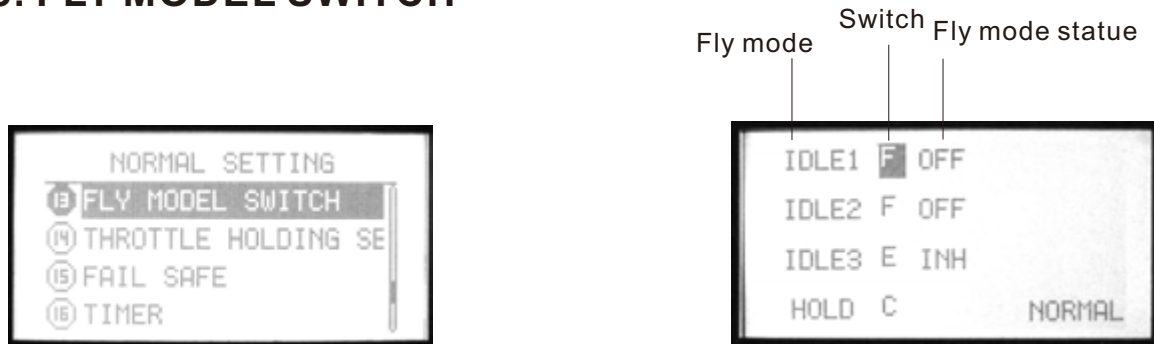
Setting Method:

Use up/down keys to select **Throttle cut setting**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to turn on/off throttle cut function.
3. Use +/- keys to set the throttle rate and trim (range is from +45 to -45%).
4. Use +/- keys to set the position(SWF A-F).
5. Use +/- keys to set the position when switch is ON.
6. Press EXIT after setting.

13. FLY MODEL SWITCH



This function is to select the flight mode.

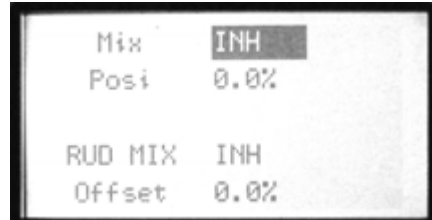
Setting Method:

Use up/down keys to select **Fly model switch**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to set ON/OFF of each fly model.
3. Use +/- keys to set each fly model OFF/DISABLE position.
4. Press EXIT after setting.

14. THROTTLE HOLDING SETTING



This function can make the throttle servo operating at a low speed position at the end of a flight. The range is between -75% and +75%.

User can set the mix function with rudder under the throttle holding state and the mix rate (offset).

This function switch can be found in “**Fly model switch**”.

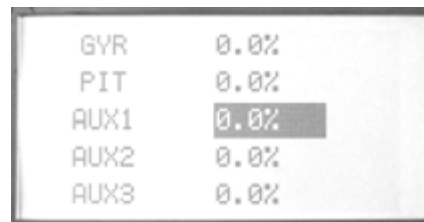
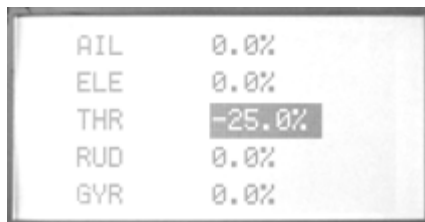
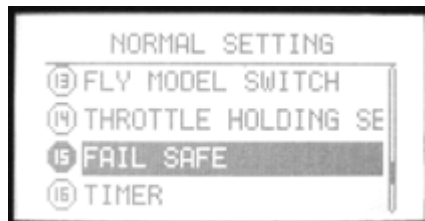
Setting Method:

Use up/down keys to select **Throttle holding setting**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to activate or inhibit the mix function.
3. Use +/- keys to set the throttle holding position. Long press OK can back to default.
4. Use +/- keys to active or inhibit the rudder mix.
5. Use +/- keys to set the mix rate (offset). Long press OK can back to default.
6. Press EXIT after setting.

15. FAIL SAFE



This function is to set responses in case of loss of signal or low RX battery.

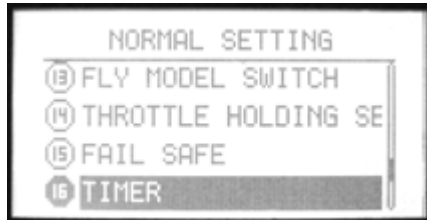
Setting Method:

Use up/down keys to select **Fail safe**, OK key to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to select "hold" or "0.0%"
3. Press OK to confirm the current parameter.
4. Press EXIT after setting.

16. TIMER



The flight time of every helicopter is different according to the different tank of fuel, engine, ESC, etc. Timer function can alarm you to land before the fuel lacks.

The transmitter can set 3 timers (A, B, C). The longest time can be set as MM99SS59. The countdown timer can alarm user before 10 minutes. The alarm will become 2S/1S from 1S/1S in the last 10 seconds. When the countdown timer is 0, the time will add up.

The timer can be seen in the opening screen. Any switch can be set to control the begin and stop of the time.

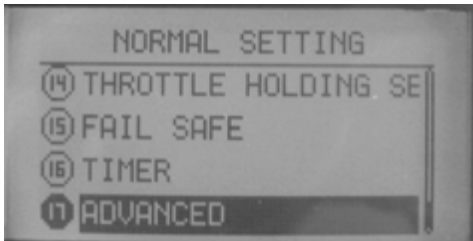
Setting Method:

Use up/down keys to select **TIMER**, OK button is to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Set timer. WFT08 can set 3 timers (A, B, C).
3. Use +/- keys to set MM..SS... Long press OK can back to default.
4. Use +/- keys to set model.
5. Use +/- keys to set control(CTRL).
6. Use +/- keys to set the position which can active this function.
7. Press EXIT after setting.

17. ADVANCED



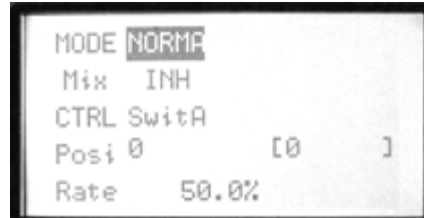
To realize an idle fly, there are 17 advanced function in more setting.

Setting Method:

Use up/down keys to select **ADVANCED**, OK to enter editing.
+/- keys can switch between pages.
please read the following pages for more about advanced functions .

ADVANCED FUNCTION INTRODUCTION

(1). GYRO SENS SETTING



User can adjust the gyro sensitivity by transmitter, AVCS gyro (GY) and normal gyro (STD).

Gyro sensitivity switch plug should plug in the fifth channel of receiver. The auxiliary channel CH 5 won't have any function now. User can set sensitivity switch from switch A to F, and also fly model (NORM, IDLE 1,2,3).

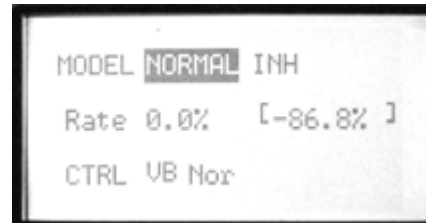
Setting Method:

Use up/down keys to select **GYRO sens setting**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to set fly model at "MODE".
3. Use +/- keys to active or inhibit "Mix".
4. Use +/- keys to set control switch at "CTRL".
5. Use +/- keys to set the switch position when the function is active.
6. Use +/- keys to set the "Rate". Long press OK can back default.
7. Press EXIT after setting.

(2). THROTTLE HOVERING SETTING



Throttle hovering setting is fine-tuning adjustments for the throttle, affecting performance only around the center point and only in the normal condition. This function can set knob VA/VB/VC to control, turn right the rotor speed becomes faster, turn left the rotor speed becomes slower.

Rotor speed changes caused by temperature, humidity, altitude or other changes in flying conditions are easily accommodated.

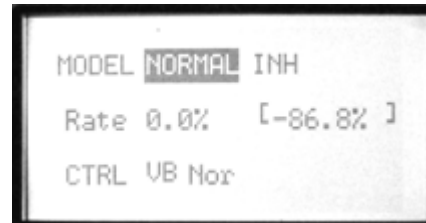
Setting Method:

Use up/down keys to select **Throttle hovering setting**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to select "MODEL".
Use +/- keys to active or inhibit this function.
3. Use +/- keys to set "Rate". Long press OK can back default.
4. Use +/- keys to set control switch.
5. Use +/- keys to set front/back.
6. Press EXIT after setting.

(3). PITCH HOVERING SETTING



Pitch hovering setting is fine-tuning adjustments for the pitch, affecting performance only around the center point and only in the normal condition.

This function can set knob VA/VB/VC to control, turn right the rotor speed becomes faster, turn left the rotor speed becomes slower.

Rotor speed changes caused by temperature, humidity, altitude or other changes in flying conditions are easily accommodated.

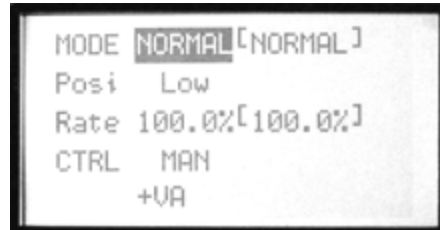
Setting Method:

Use up/down keys to select **Pitch hovering setting**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to select "MODEL".
Use +/- keys to active or inhibit this function.
3. Use +/- keys to set "Rate". Long press OK can back default.
4. Use +/- keys to set control switch.
5. Press EXIT after setting.

(4). HI/LO PIT SETTING



This function is to set the high and low pitch position at different flying modes.

This function can set knob VA/VB/VC to control or controlled by user "CTRL MAN".

if "CTRL MAN", the pitch is set by "Rate", the range is between 60%-100%.

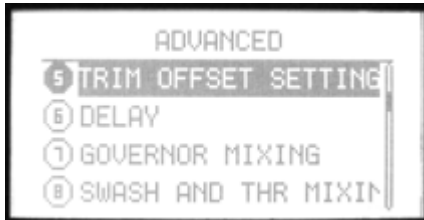
Setting Method:

Use up/down keys to select **HI/LO PIT setting**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to select "MODEL".
Use +/- keys to active or inhibit this function.
3. Use +/- keys to **S**et the "Pos", low or high.
4. Use +/- keys to set "Rate". Long press OK can back default.
5. Use +/- keys to set control switch.
6. Press EXIT after setting.

(5). TRIM OFFSET SETTING



This function is to adjust the servo trim at hovering state. This function is used to automatically change the trim of a helicopter, for example, when transitioned from hover to flying at high speed. A clockwise-rotation rotor helicopter tends to drift to the right at high speed, so an aileron offset may be applied to offset the helicopter to the left.

The necessary elevator offset varies with model geometry, so it must be determined by noting collective pitch changes at high speed.

The rudder offset is affected by both revolution mixing and trim lever movement while in the offset function.

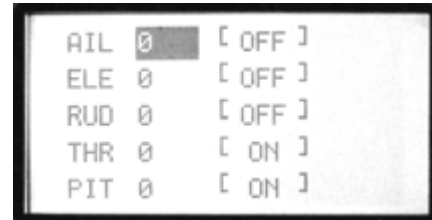
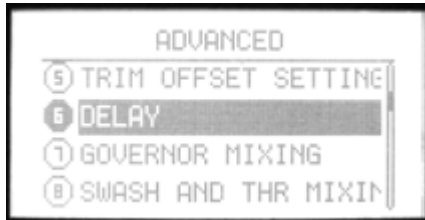
Setting Method:

Use up/down keys to select **Trim offset setting**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to active or inhibit "Mix".
3. Use +/- keys to **S**et the control switch "CTRL".
4. Use +/- keys to set the control switch position "Pos".
5. Use +/- keys to set the channel, eg: aileron, elevator, direction etc.
6. Use +/- keys to set the mix rate "Rate". Long press OK can back default.
7. Press EXIT after setting.

(6). DELAY



This function is to delay the aerobatics or throttle cut when the helicopter is in the air so that to avoid the big trim change. The Delay function provides a smooth transition between the trim positions whenever OFFSET, REVO. MIXING, or THROTTLE HOLD functions are turned on and off.

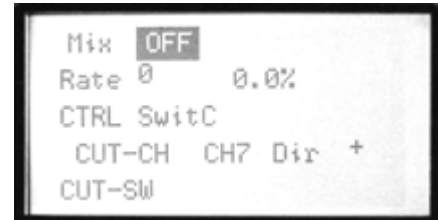
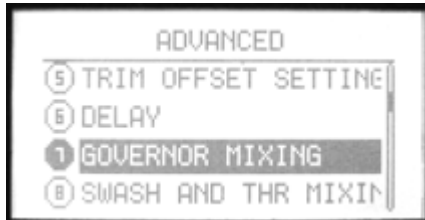
Setting Method:

Use up/down keys to select **DELAY**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to set **T** his function. Long press OK can back default.
3. Press EXIT after setting.

(7). GOVERNOR MIXING



This function is to set the governor.
The Governor mixing function is used to adjust the Governor speed settings from the transmitter.

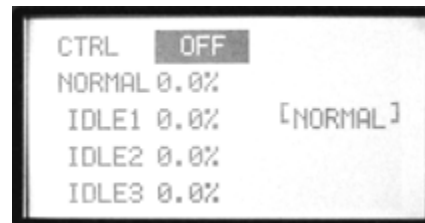
Setting Method:

Use up/down keys to select **Governor mixing**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to on/off "Mix".
3. Use +/- keys to **S**et the **M**ix rate "Rate". Long press OK can back default.
4. Use +/- keys to set the control switch "CTRL".
5. Use +/- keys to set the channel and its direction.
6. Press EXIT after setting.

(8). SWASH AND THR MIXING



This function is to adjust throttle and pitch mix function.

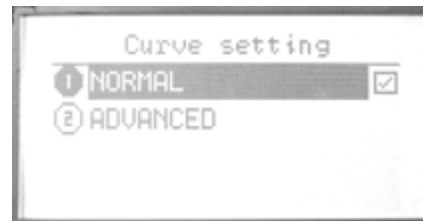
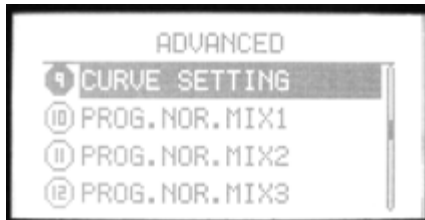
Setting Method:

Use up/down keys to select **Swash and THR mixing**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to on/off "Mix".
3. Use +/- keys to set value of Mix, long press to back default.
4. Press EXIT after setting.

(9). CURVE SETTING



There are 2 kinds of setting, Normal and Advanced.

1. Setting introduction

Curve setting is one of the functions of WFT08X. We will make detail description here. You can refer to this detail description for the other functions which relates to the curve setting.

There are two kinds of curve setting mode: normal setting and advanced setting.

Normal setting: 7 points curve setting. You can set the curve by set the 7 points value.

Advanced setting: you can add or delete the curve point.

Advanced curve can be added at most 7 points, at least 2 points. You can not only set the value of each point, but also the position of each point.

2. Setting method

Turn on the transmitter, press menu, find "ADVANCED", select "curve setting".

There are two modes: normal, advanced.

Normal curve setting: 7 points curve setting. You can edit the curve point in the left pane.

1. Use left/right direction button to select the editing point. The curve point is marked by a dashed line.

2. Use +/- button to set the value. Press OK button for a while can back to default. You can set the 7 points.

3. Press EXIT after setting.

Advanced curve setting: User can add or delete the curve point. D/R curve has 7 points and every point can be set. Press +/- button for seconds can add/delete curve point. It can at most add to 7 points and delete to 2 points.

When selecting one point, use left/right button to choose the point you want to edit, press OK button to enter editing.

Active the cursor, use up/down direction button to set the left value in the pane, use left/right direction button to set the right value in the pane.

The black cursor is the editing part, which is marked by a dashed line.

3. The operation method Of increasing、decreasing、moving the curve points

(1) Increase the curve point

Open the transmitter entre into No.17 advanced setting→confirm→select No.9 curve setting→ select No.2:Advanced→confirm→exit→exit→select No.8 throttle curve setting→confirm → At this point we can see a row of number in bottom left corner inside the box (that is, two 0.0%) are black shadow → at this time press confirmation button, the black shadow, this is the cursor (we will introduce it with cursor as follows) will coruscate→ Hold down the (+) key until hear two beeps (At this time the position 0.0% has increased one curve point, which means that the position 0.0% have two curve points, of course, there is no need to have two curve points in one position, so the introduction of how to move curve point will be shown later) → Press confirmation button to let cursor stop blinking →Press the right key to move the curve point to +16.7% → Press confirmation button, the cursor blink → Hold down the (+) key until hear two beeps (At this time the position 0.0% has increased one curve point) → That means there are two points have been increased, then about the third curve point, put the cursor in +33.3% position with the same operation in accordance with the above can be, and there are seven curves of the original design point, a maximum of can be set to 10 curve points, that is, 3 points can be increased.

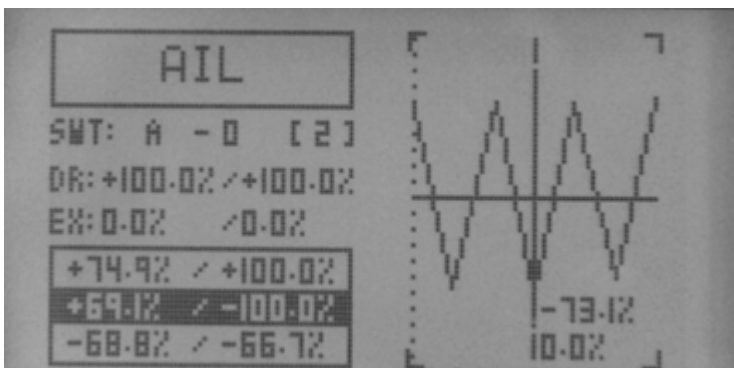
(2) Move curve point operations are as follows

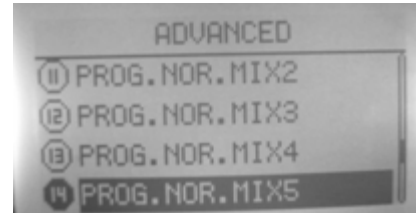
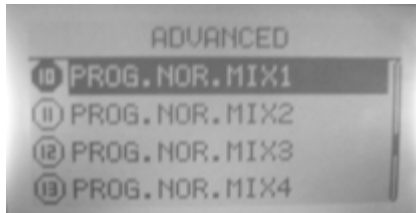
When you want to adjust the data of curve point, such as you have increased one curve point in the 0.0% position, if you want to make the increased point to move to +5.5% position, please select the 0.0% this curve point, that means in the throttle curve settings menu make the cursor in 0.0% position → Press confirmation button to make the cursor blink → Press the right button to move the right of the data in the cursor blinking area to transfer to +5.5% → confirmation

Of course, not just in one place there are two curves of points should be adjusted then moving curve point, whatever you want to move the curve point can be adjusted in accordance with this method. Another point on the operation for reduction of curve point is to use(-)key stead of (+) key, press OK button, it is simple.

Note: Here is the explanation to the two curves of points in a position, when the two curves points in one position, the eyes can't see, but only when the cursor stops blinking, when you press the right or left button, actually, the number below the cursor hasn't any changes, it means the broken line of the curve point also hasn't any changes, that means there are two curve points in the position now.

The picture can show there are Seven curve points



(10)-(14). PROG. NOR. MIX1-5

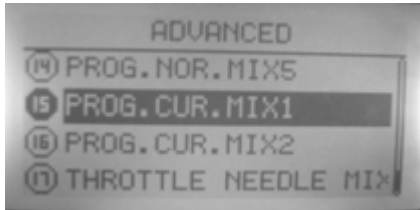
The mix program is to adjust the flying pose. There are 5 series programs with the same setting method. You can set one mix and one mix with another one mix.

Setting Method

Use up/down keys to select **PROG. NOR. MIX**, OK to enter editing.

Steps:

1. Use direction keys to select editing part and +/- keys to select channel. Set any two channels mix.
2. Use +/- keys to active or inhibit "Mix".
3. Use +/- keys to active or inhibit "Link" and "TRIM".
4. Use +/- keys to active or inhibit "CTRL".
5. Use +/- keys to set the control switch position.
6. Press EXIT after setting.

(15)–(16). PROG. CUR. MIX1-2

There are 2 curve mix program, the curve is made up by 2 to 7 points.

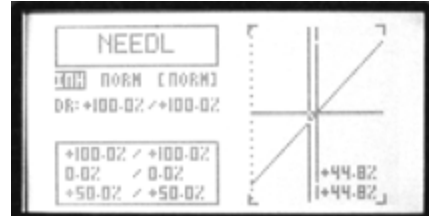
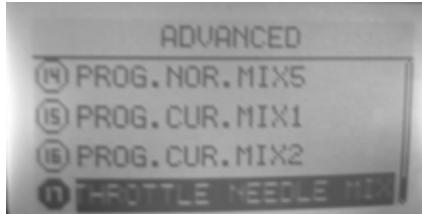
Setting Method:

Use up/down keys to select **PROG. CUR. MIX1-2**, OK to enter editing.

Steps:

1. Use direction keys to select editing part and +/- keys to select any channel. Set any two channels mix.
2. Use +/- keys to active or inhibit "Mix".
3. Use +/- keys to active or inhibit "Link" and "TRIM".
4. Use +/- keys to active or inhibit "CTRL".
5. Use +/- keys to set the control switch position.
6. Set the curve point.(Normal/Advanced). Please refer to page 23.
7. Press EXIT after setting.

(17). THROTTLE NEEDLE MIXING



Use throttle needle to adjust proportion of mixing gas. The throttle stick has 2–7 points, and adjust NORM and IDLE1, 2, 3 separately.

Setting Method

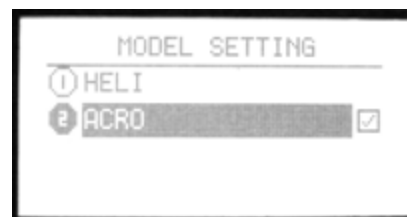
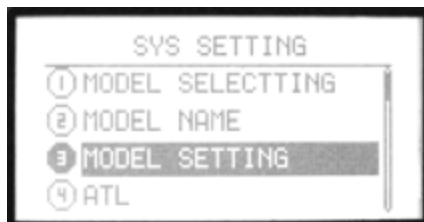
Use up/down keys to select **Throttle needle mixing**, OK to enter editing.

Steps:

1. Use +/- keys to active or inhibit this function when it shows ON/INH on screen.
2. Select fly model(NORM, IDLE1, IDLE2, IDLE3.)
Use +/- keys to select one curve.
3. Set D/R
Use direction keys to select “D/R”, edit one or two parameter. +/- keys can increase or decrease the value. Long press the OK is back to default.
4. Set EX
Use direction keys to select “EX”, edit one or two parameter. +/- keys can increase or decrease the value. Long press the OK is back to default. EX can adjust aileron, throttle, rudder sensitivity when the sticks are around the middle.
There are a lot of mixes when “D/R” and “EX” come together.
5. Curve setting method please refer to page 23.

AIRPLANE

Press Menu and turn on the transmitter to enter SYS SETTING. Select **MODEL SETTING**, press OK button to select the model type Airplane. Restart the transmitter after setting.



Introduction

This is for Airplane function. Long press Menu key, then turn on the radio to enter SYS SETTING. Use +/- keys to select Model Setting, press OK to enter the setting menu.

Choose ACRO model, then reset radio. Enter the function of airplane.

Editing mode and function introduction

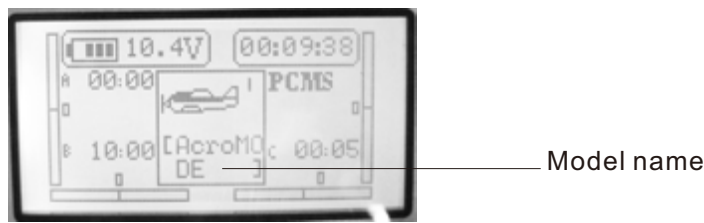
1. Opening Screen

Turn on the power switch, the LCD displays as follows.



The start up screen displays the voltage, timer, model, aileron, throttle, elevator and rudder trim state.

Note: Press EXIT you can see the model name.

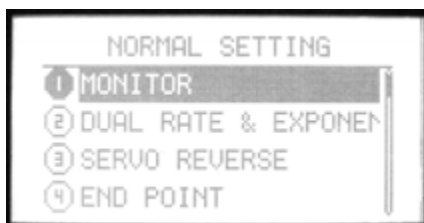


2. Menu Screen

There are “NORMAL SETTING”, “SYS SETTING”, “ADVANCED”.

A. NORMAL SETTING

Turn on the transmitter, press the menu key, the LCD displays content on the LCD.



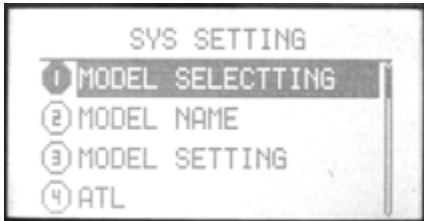
Setting method:

1. Use direction keys to select the editing part, use up/down keys to select function item. Left/right direction keys to turn page.
2. Press OK to enter submenu. The submenu function is described in the next chapter.
3. Press EXIT key to go back to previous menu and the data is set automatically.

1. MONITOR
2. DUAL RATE & EXPONENTIAL SETTING
3. SERVO REVERSE
4. END POINT
5. SUB TRIM
6. AUXILIARY CHANNELS SETTING
7. THROTTLE CURVE SETTING
8. TRIM STEP SETTING
9. FLAPERON
10. FLAP TRIM
11. AIL-DIFF
12. ELEV-FLAP
13. THROTTLE CUT SETTING
14. IDLE DOWN
15. FAIL SAFE
16. TIMER
17. ADVANCED
18. LANGUAGE

B. SYS SETTING

Press Menu and turn on the power switch, the LCD displays the following:



1. MODEL SELECTTING
2. MODEL NAME
3. MODEL SETTING
4. ATL
5. AIL-2
6. MODULATION SETTING
7. STICK SETTING
8. REST SETTING
9. SEND DATA
10. RECEIVE DATA
11. CONTRAST SETTING
12. ENGINEER MODEL
13. ABOUT
14. LANGUAGE

Setting method:

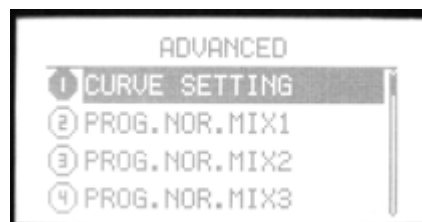
1. Use direction keys to select the editing part, use up/down keys to select function item. Left/right direction keys to switch pages.

2. Press OK to enter submenu. The submenu function is described in the next chapter.

3. Press EXIT key to go back to previous menu and the data is set automatically.

C. ADVANCED

1. Enter "NORMAL SETTING", use direction keys to switch pages, select "ADVANCED". Press OK to enter.



Setting method:

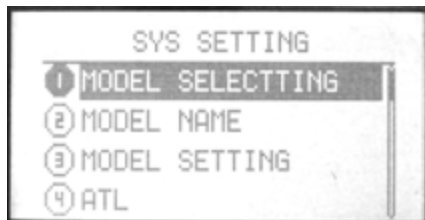
1. Use direction keys to select the editing part, use up/down keys to select function item. Left/right direction keys to turn page.

2. Press OK to enter submenu. The submenu function is described in the next chapter.

3. Press EXIT key to go back to previous menu and the data is set automatically.

SYS SETTING

1.MODEL SELECTTING



There are 8 airplane models. You can select any one to set.

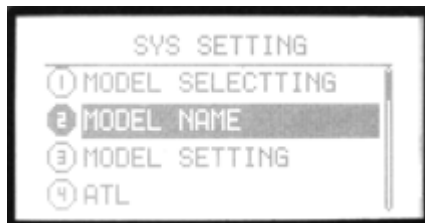
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down keys to select "**MODEL SELECTTING**", OK to enter editing.

Steps:

1. Use up/down direction keys to select the model.
2. Use OK key to select.
3. Press EXIT after setting.

2. MODEL NAME



This function is to make new names by users.

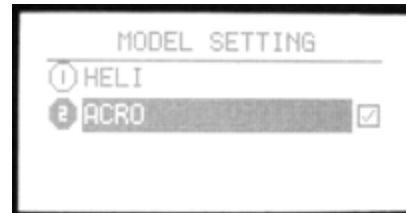
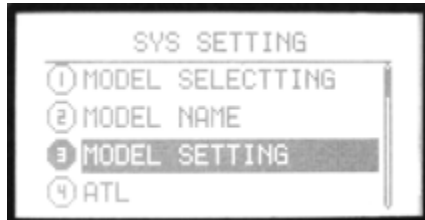
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down keys to select "**MODEL NAME**", OK button to enter editing.

Steps:

1. You can edit the underlined letter.
2. Use OK key to choose the word you like.
3. Press EXIT after setting.

3. MODEL SETTING



You can select the model type. There are two types: HELI, ACRO.

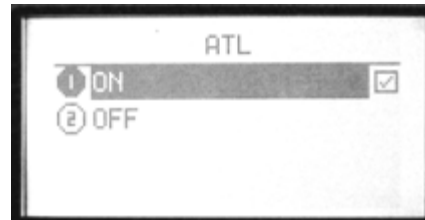
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down keys to select "**MODEL SETTING**", OK to enter editing.

Steps:

1. Use up/down direction keys to select the model type.
Press OK key to confirm.
- 2**. Press EXIT after setting.

4. ATL



Adjustable travel limit (ATL) makes throttle trim effective only at low throttle, disabling the trim at high throttle. This prevents pushrod jamming due to idling trim changes. This function defaults to ON. If you are not using channel 3 for throttle, you may want trim operation the same as on all other channels. To do so, set ATL to OFF.

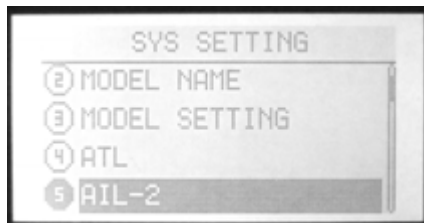
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down keys to select "**ATL**", OK to enter editing.

Steps:

1. Use direction keys to select the editing part.
2. Press OK key to set ATL function.
3. Press EXIT after setting.

5. AIL-2



AIL-2 is another channel for aileron.

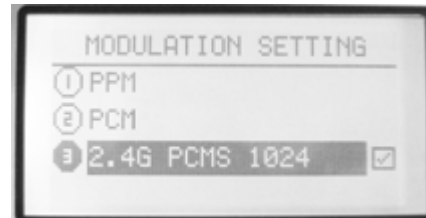
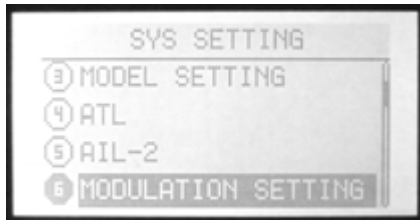
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down keys to select "**AIL-2**", OK to enter editing.

Steps:

1. Use direction keys to select model.
2. Press OK key to confirm.
3. Data is set automatically.

6. MODULATION SETTING



Because of the different receiver modulation PPM/PCM/PCMS 1024, the transmitter should be accordance with the receiver modulation.

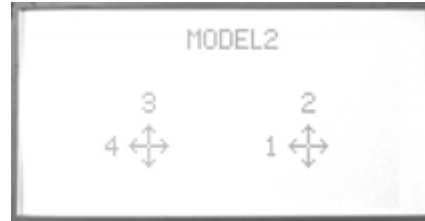
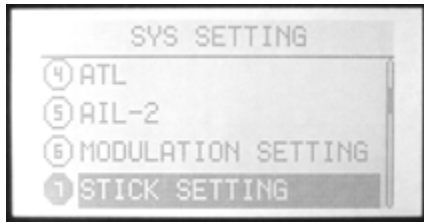
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down keys to select "**Modulation setting**", OK to enter editing.

Steps:

1. Use direction keys to select the editing part.
2. Press OK key to confirm, then press right key to confirm.
Restart the transmitter and it works.

7. STICK SETTING



There are 4 kinds of mode, you can use up/down direction keys to select the mode you preferred.

- 1-aileron
- 2-elevator
- 3-throttle
- 4-rudder

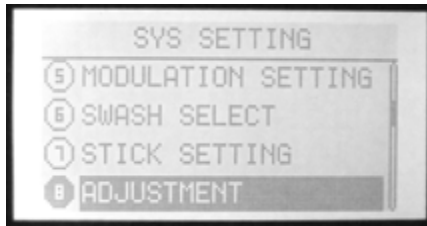
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down keys to select "**STICK SETTING**", OK to enter editing.

Steps:

1. Use direction keys to select the editing part.
2. Press up/down keys to choose Stick mode.
3. Press EXIT after setting, the data is set automatically.

8.Adjustment



This function is to set the center, high and low point of four sticks when users change the mode I or II by themselves.

Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING" Use up/down button to select "**ADJUSTMENT**", OK button is to enter editing.

Steps:

1. Use direction button to select the editing part. Take the aileron adjustment for example.
2. Make the stick in the mid-point location. Press OK button to select any stick you want to adjust.
3. Select into the Figure 2, when the "center" highlights, press the "ok" button directly (the mid-point has been adjusted), then enter the high adjust.
4. The "high" highlights, take the stick gently in the right side (throttle /elevator in the top, aileron / rudder in the right),press "ok" button (the max adjust is OK), enter the low adjustment.
- 5.The "low" highlights, take the stick gently in the left side (throttle /elevator in the bottom, aileron / rudder in the left),press "ok" button (the min adjust is OK).
6. Press OK or RESET to confirm the record or reset.
7. If the record is wrong, press OK will back to step 3.

9.RESET SETTING



This function is to back default.

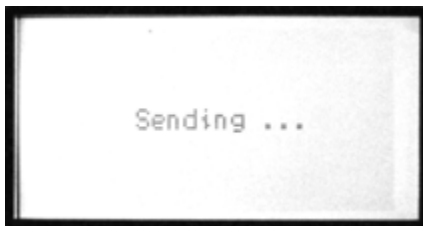
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down keys to select "**REST SETTING**", OK to enter editing.

Steps:

1. Use direction keys to select the editing part.
2. Press OK key to confirm.
3. Restart the transmitter and it works.
4. The default language is English.

10. SEND DATA



Two transmitters (WFT08X) can copy data by a trainer/data transfer cable. This function and the next function “Receive data” can be realized between transmitters.

Setting Method:

Press Menu and turn on the transmitter to enter “SYS SETTING”
Use up/down keys to select “**SEND DATA**”, OK to enter editing.

Steps:

1. Select the model data you want to send out.
2. Press OK to send.

11.RECEIVE DATA



Two transmitters (WFT08X) can copy data by a trainer cable/data transfer cable. This function and the previous function "Send data" can be realized between transmitters.

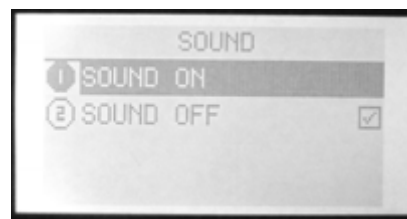
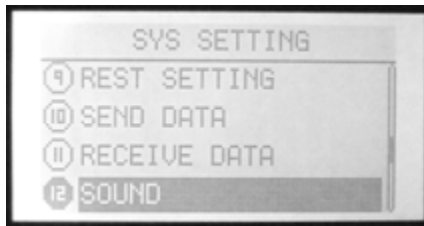
Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down keys to select "**RECEIVE DATA**", OK to enter editing.

Steps:

1. Press OK to receive data.
2. Restart the transmitter after receiving the data and it works.

12.Sound



This function is to select the sound ON and OFF.

Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down button to select "SOUND", OK button is to enter editing.

Steps:

1. Use +/- button to select ON and OFF.
2. Press OK button to confirm.
3. Press EXIT after setting.

13.CONTRAST SETTING



This function is to adjust the LCD brightness by increasing or decreasing the contrast value.

Setting Method:

Press Menu and turn on the transmitter to enter "SYS SETTING"
Use up/down keys to select "**CONTRAST SETTING**",
OK to enter editing.

Steps:

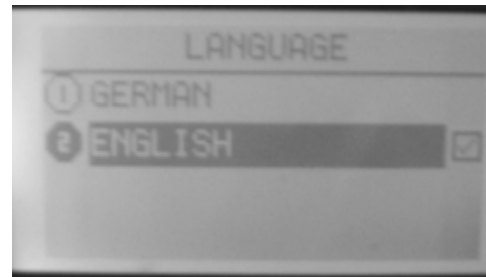
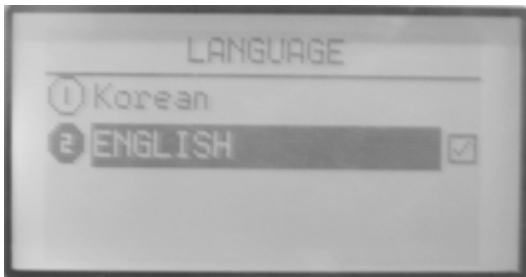
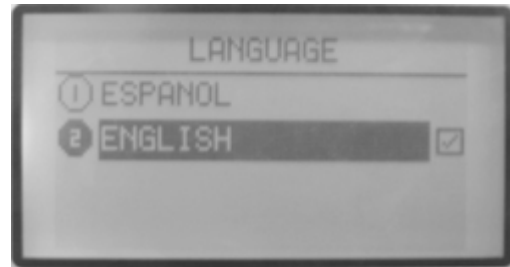
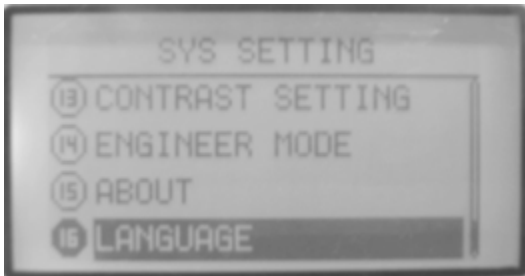
1. Use +/- keys to increase or decrease the value.
2. Long press OK to go back to default.
3. Press EXIT after setting.

About



This item shows the Version of WFLY radio.

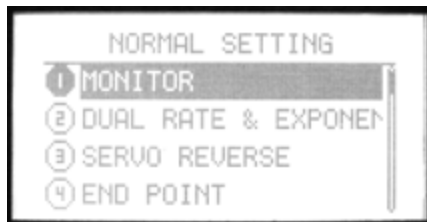
16.Language



This function is to select the language. The selection is as shown in the picture, if only English or Chinese menu, the function is not exist.

NORMAL SETTING(AIRPLANE)

1. MONITOR



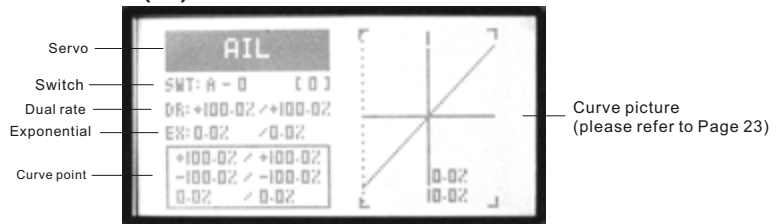
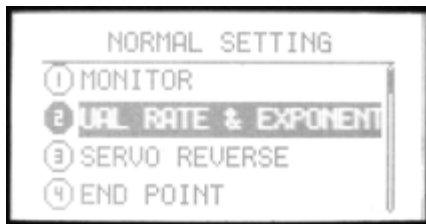
Monitor shows the stick/switch/knob movement.
For PPM, this function is to describe the 8 channels output.

Setting Method:

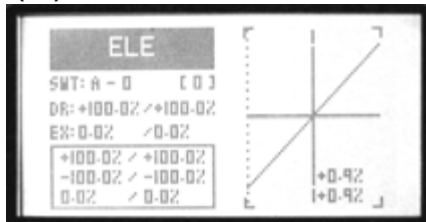
Press menu key, enter system setting, the first function is the monitor.

2. DUAL RATE & EXPONENTIAL SETTING

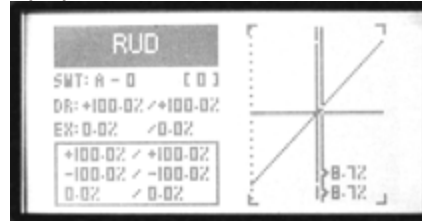
(1). AIL



(2). ELE



(3). RUD



Dual rate is to adjust aileron, elevator and rudder travel range. The range is between 0%-120%.

Exponential setting is to adjust aileron, elevator and rudder sensitivity when the sticks are around the middle. The range is between -100% to +100%.

Setting Method:

1. Select channel

Aileron, elevator direction and rudder are selectable. Press +/- keys to select channel.

2. Set the switch and its position(0,1,2)

Press direction keys to select "SWT", edit it. +/- keys can select function switch(A-F).

After selecting the function switch, press right direction key to enter the switch position setting, use +/- keys to set (0, 1, 2).

3. Set dual rate

Press direction keys to select "D/R", edit it. Edit one or two parameter.

+/- keys can increase or decrease the value.

Long press OK key is to back default.

4. Set exponential

Press direction key to select "EX". Exponential can adjust aileron, throttle and rudder sensitivity as the stick at the middle.

5. Set curve point (normal/advanced)

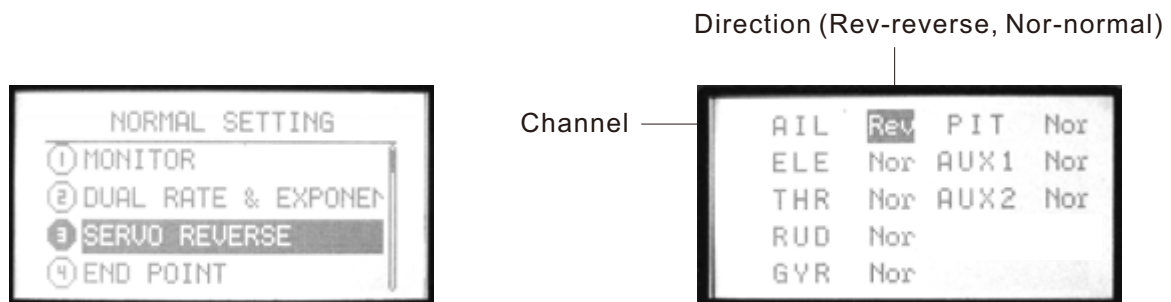
The box under "EX" shows the curve points.

Select "Curve setting" in More setting function list.

Please refer to Page 23 for detail curve setting.

6. Press EXIT after all the values are finished setting.

3. SERVO REVERSE



This function is to change the direction of the servos movement.

Setting Method:

Use up/down keys to select **SERVO REVERSE**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys or OK key to switch the servo movement direction.
3. Press EXIT after setting.

4. END POINT



It is to adjust the end of individual servo's travel. The range is from 0% to 120%.

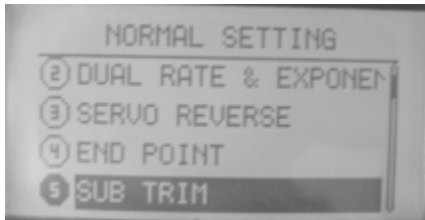
Setting Method:

Use up or down keys to select **END POINT**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to set the travel value. Long press OK is back to default.
3. Press EXIT after setting.

5. SUB TRIM



Channel	Value
AIL	0
ELE	0
THR	H 4
RUD	L 2
GYR	0

High/Low

Sub trim makes small changes or corrections to the neutral position of each servo. Range is -120 to +120, default setting is 0.

We recommend that you center the digital trims before making Sub trim changes, and that you try to keep all of the Sub trim values as small as possible. Otherwise, when the Sub trims are large values, the servo's range of travel is restricted on one side.

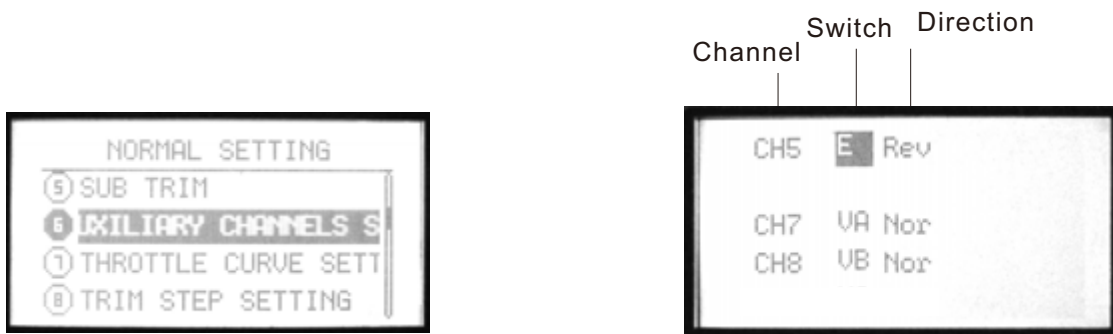
Setting Method:

Use up or down keys to select **SUB TRIM**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys or OK key to set the trim value. Long press OK is back to default.
3. Press EXIT after setting.

6. AUXILIARY CHANNELS SETTING



This function is for channel 5 to channel 8 function setting.

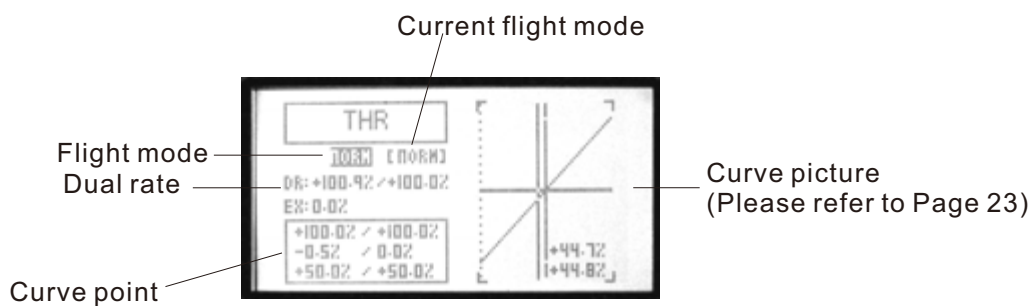
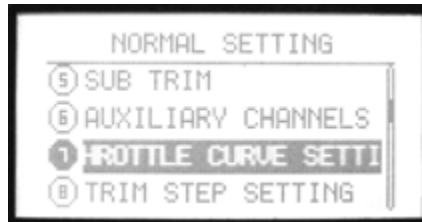
Setting Method:

Use up or down keys to select **AUXILIARY CHANNELS SETTING**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to set Switch or knob of each channel.
The switch can be set from A to F, the knobs can be set as VA, VB, VC or none(-).
3. Use left or right direction keys to choose normal or reverse direction of every channel, use +/- keys to set.
4. Press EXIT after setting.

7. THROTTLE CURVE SETTING



Throttle curve, together with the throttle stick, can be adjusted properly to maximize engine performance at a particular pitch setting.

There are two kinds of curve setting, normal (7 points curve), advanced (2-7 points curve), the range is between 0%-120%. The transmitter can set the following curves: NORM, IDLE1, IDLE2, IDLE3.

Normal curve is based on hovering, to maximize engine performance at a particular pitch setting.

Idle curve is for engine proper work in a 3D flight, with a good match between throttle and pitch.

Setting Method:

Use up/down button to select **THROTTLE CURVE SETTING**, OK button is to enter editing.

Steps:**1. Set Dual rate**

Use direction keys to select "D/R" and edit (one or two values can be set separately or together). Press +/- keys can increase or delete the value. Long press OK is to back default.

2. Curve point setting(Normal/Advanced)

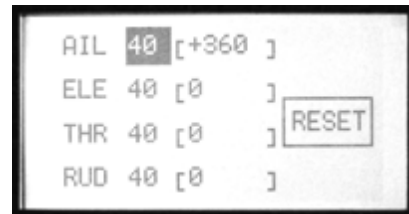
The below pane shows the points curve.

Select "Advanced setting" in "Data setting", press OK to choose the curve.

For detail curve setting method please refer to Page 23.

3. Press EXIT after setting.

8. TRIM STEP SETTING



This function is to change the rate at which the trim moves when the TRIM LEVER is activated. The range is from 0 to 250. Generally larger trim steps are for models with larger control throws or for first flights to ensure sufficient trim to properly correct the model. Smaller trim steps are later used to allow very fine adjustments in flight.

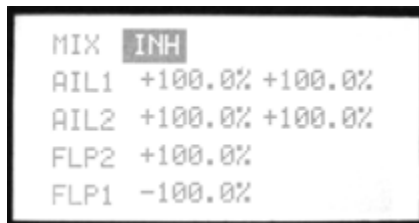
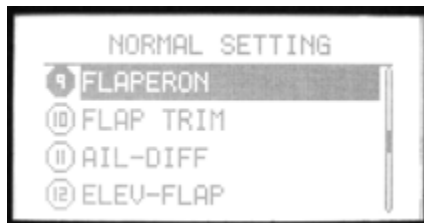
Setting Method:

Use up/down keys to select **TRIM STEP SETTING**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to adjust the size of the step. Repeat as desired for other channels. If you select RESET, the current channel trim value change to 0.
3. Press EXIT after setting.

9. FLAPERON



FLAPERON mixing function uses on servo on each of the two ailerons, and uses them for both aileron and flap function.

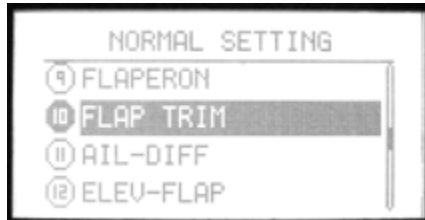
Setting Method:

Use up/down keys to select **FLAPERON**, OK to enter editing.

Steps:

1. Use direction keys to select editing part, use +/- keys to select on/disable.
2. Use direction keys to select editing part.
3. Use +/- keys to set value. Long press OK is back to default.
4. Press EXIT after setting.

10. FLAP TRIM



FLAP TRIM assigns the primary flaperon control to allow trimming in flight of the flap action of flaperons.

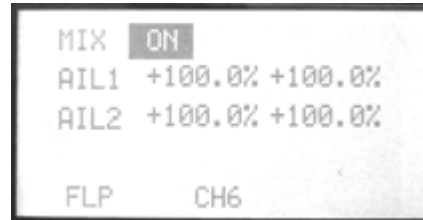
Setting Method:

Use up/down keys to select **FLAP TRIM**, OK to enter editing.

Steps:

1. Use direction keys to select editing part, use +/- keys to select on/disable.
2. Use direction keys to select editing part.
3. Use +/- keys to set value. Long press OK is back to default.
4. Press EXIT after setting.

11. AIL-DIFF



Aileron differential(AIL-DIFF) is primarily used on 3-servo wings, with one servo operating inboard flap(s) on Ch6, and AIL-DIFF controlling proper aileron operation of 2 aileron servos, plugged into Ch1 and Ch7.

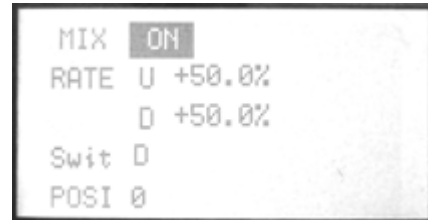
Setting Method:

Use up/down keys to select **AIL-DIFF**, OK to enter editing.

Steps:

1. Use direction keys to select editing part, use +/- keys to select on/disable.
2. Use direction keys to select editing part.
3. Use +/- keys to set value. Long press OK is back to default.
4. Press EXIT after setting.

12. ELEV-FLAP



ELEV-FLAP mixing is the first pre-programmed mix we'll cover. This mix makes the flaps drop or rise whenever the elevator stick is moved. It is most commonly used to make tighter pylon turns or squarer corners in maneuvers. In most cases, the flaps droop (are lowered) when up elevator is commanded.

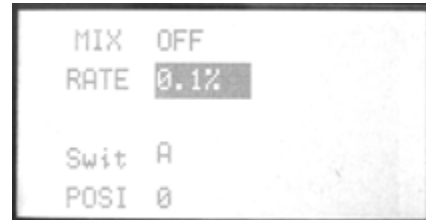
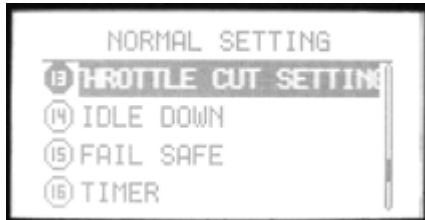
Setting Method:

Use up/down keys to select **ELEV-FLAP**, OK to enter editing.

Steps:

1. Use direction keys to select editing part, use +/- keys to select on/disable.
2. Use direction keys to select editing part.
3. Use +/- keys to set value. Long press OK is back to default.
4. Use direction keys to select switch, use +/- keys to select switch (A-F) and switch position (0, 1, 2, 3).
5. Press EXIT after setting.

13. THROTTLE CUT SETTING



This function is to shut off the engine at the end of a flight. The engine can be stopped with one touch of any switch, eliminating the need to move the trim to kill the engine and then readjust prior to each flight. The helicopter THR CUT includes an ON/OFF throttle position (normally a little above idle). You must move the THROTTLE STICK back below the set point before the THR-CUT function can be reset, to avoid sudden engine acceleration.

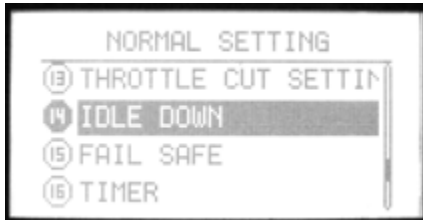
Setting Method:

Use up/down keys to select **THROTTLE CUT SETTING**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to select on/disable.
3. Use +/- keys to set the throttle rate and trim (range is between 0 to 45%).
4. Use direction keys to select switch, use +/- keys to select switch(A-F) and switch position(0, 1, 2, 3).
5. Press EXIT after setting.

14. IDLE DOWN



This function is to lower the engine idle for: sitting on the runway prior to take off, stalls and spins, and landings. The normal idle setting is a little higher for easier starts and safe flights with less risk of dead sticks.

The idle down function is not normally used when starting the engine, and its accidental operation may keep your engine from starting.

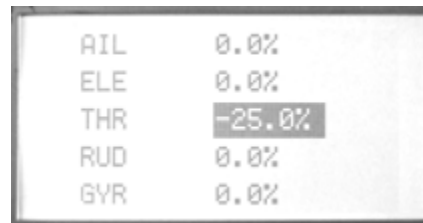
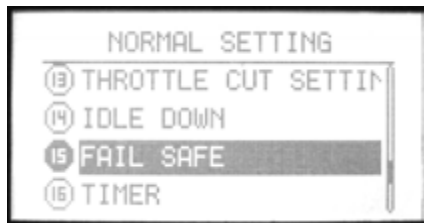
Setting Method:

Use up/down keys to select **IDLE DOWN**, OK to enter editing.

Steps:

1. Use direction keys to select editing part, use +/- keys to select off/disable.
2. Use direction keys to select editing part.
3. Use +/- keys to set value. Long press OK is back to default.
4. Use direction keys to select switch, use +/- keys to select switch (A-F) and switch position (0, 1, 2, 3).
5. Press EXIT after setting.

15. FAIL SAFE



This function is to set responses in case of loss of signal or low RX battery.

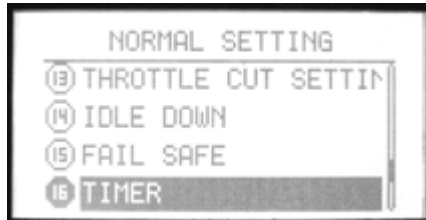
Setting Method:

Use up/down keys to select **FAIL SAFE**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to set "adjust"/ "hold".
3. Press OK key to confirm the current parameter.
4. Press EXIT after setting.

16. TIMER



The flight time of every airplane is different according to the different tank of fuel, engine, ESC, etc. Timer function can alarm you to land before the fuel lacks.

The transmitter can set 3 timers (A, B, C). The longest time can be set as MM99SS59. The countdown timer can alarm user before 10 minutes. The alarm will become 2S/1S from 1S/1S in the last 10 seconds. When the countdown timer is 0, the time will add up.

The timer can be seen in the opening screen. Any switch can be set to control the begin and stop of the time.

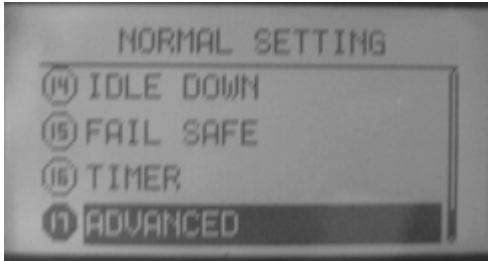
Setting Method:

Use up/down keys to select **TIMER**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Set timer. WFT08 can set 3 timers (A, B, C).
3. Use +/- keys to set MM..SS... Long press OK key can back to default.
4. Use +/- keys to set model.
5. Use +/- keys to set control(CTRL).
6. Use +/- keys to set the position which can activate this function.
7. Press EXIT after setting.

17. ADVANCED



To realize an idle fly, there are 16 advanced functions in ADVANCED.

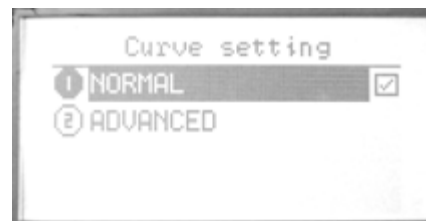
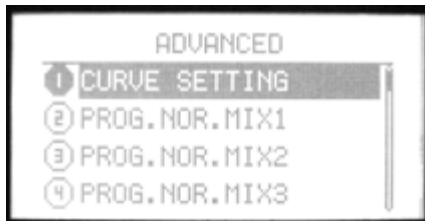
Setting Method:

Use up/down keys to select ADVANCED, OK to enter editing.
+/- button can switch pages.

About each advanced function please read the following pages.

ADVANCED function introduction

1. CURVE SETTING



There are 2 kinds of setting, Normal and Advanced.

1. Setting introduction

Curve setting is one of the functions of WFT08X. We will make detail description here. You can refer to this detail description for the other functions which relates to the curve setting.

There are two kinds of curve setting mode: normal setting and advanced setting.

Normal setting: 7 points curve setting. You can set the curve by setting the 7 points value.

Advanced setting: you can add or delete the curve point.

Advanced curve can be added at most 7 points, at least 2 points. You can not only set the value of each point, but also the position of each point.

2. Setting method

Turn on the transmitter, press menu, find "ADVANCED", select "curve setting".

There are two modes: normal, advanced.

Normal curve setting: 7 points curve setting. You can edit the curve point in the left pane.

1. Use left/right direction button to select the editing point. The curve point is marked by a dashed line.

2. Use +/- button to set the value. Press OK button for a while can back to default. You can set the 7 points.

3. Press EXIT after setting.

Advanced curve setting: User can add or delete the curve point. D/R curve has 7 points and every point can be set. Press +/- button for seconds can add/delete curve point. It can at most add to 10 points and delete to 2 points.

When selecting one point, use left/right button to choose the point you want to edit, press OK button to enter editing.

Activate the cursor, use up/down direction button to set the left value in the pane, use left/right direction button to set the right value in the pane.

The black cursor is the editing part, which is marked by a dashed line.

3. The operation method Of increasing、decreasing、moving the curve points to WFT09

(1) Increase the curve point

Open the transmitter entre into No.17 advanced setting→confirm→select No.9 curve setting→ select No.2:Advanced→confirm→exit→exit→select No.8 throttle curve setting→confirm → At this point we can see a row of number in bottom left corner inside the box (that is, two 0.0%) are black shadow → at this time press confirmation button, the black shadow, this is the cursor (we will introduce it with cursor as follows) will coruscate→ Hold down the (+) key until hear two beeps (At this time the position 0.0% has increased one curve point, which means that the position 0.0% have two curve points, of course, there is no need to have two curve points in one position, so the introduction of how to move curve point will be shown later) → Press confirmation button to let cursor stop blinking →Press the right key to move the curve point to +16.7% → Press confirmation button, the cursor blink → Hold down the (+) key until hear two beeps (At this time the position 0.0% has increased one curve point) → That means there are two points have been increased, then about the third curve point, put the cursor in +33.3% position with the same operation in accordance with the above can be, and there are seven curves of the original design point, a maximum of can be set to 10 curve points, that is, 3 points can be increased.

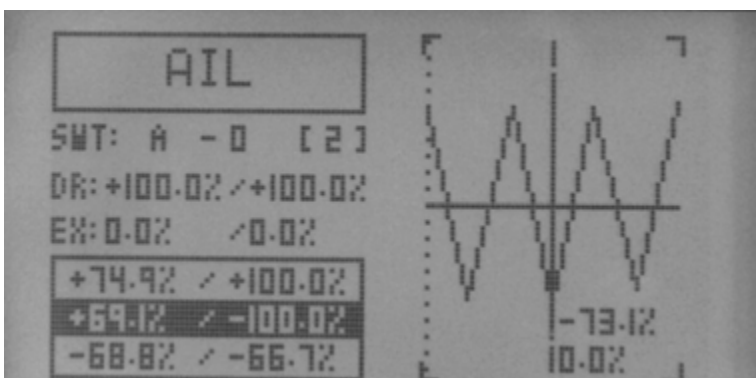
(2) Move curve point operations are as follows

When you want to adjust the data of curve point, such as you have increased one curve point in the 0.0% position, if you want to make the increased point to move to +5.5% position, please select the 0.0% this curve point, that means in the throttle curve settings menu make the cursor in 0.0% position, → Press confirmation button to make the cursor blink → Press the right button to move the right of the data in the cursor blinking area to transfer to +5.5% → confirmation

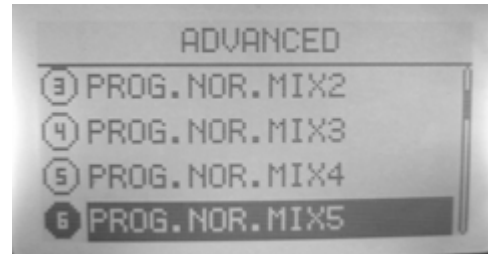
Of course, not just in one place there are two curves of points should be adjusted then moving curve point, whatever you want to move the curve point can be adjusted in accordance with this method. Another point on the operation for reduction of curve point is to use (-) key instead of (+) key, press OK button, it is simple.

Note: Here is the explanation to the two curves of points in a position, when the two curves points in one position, the eyes can't see, but only when the cursor stops blinking, when you press the right or left button, actually, the number below the cursor hasn't any changes, it means the broken line of the curve point also hasn't any changes, that means there are two curve points in the position now.

The picture can show there are Seven curve points



2-6.PROG. NOR. MIX1-5



The mix program is to adjust the flying pose. There are 5 series programs with the same setting method. You can set one mix and one mix with another one mix.

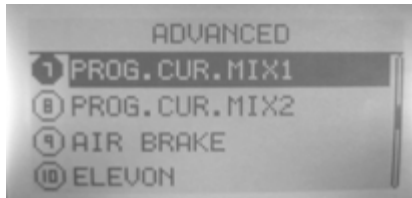
Setting Method

Use up/down keys to select **PROG. NOR. MIX**, OK to enter editing.

Steps:

1. Use direction keys to select editing part. Set any two channels mix (1-5) .
2. Use +/- keys to active or inhibit "Mix" .
3. Use +/- keys to active or inhibit "Link" and "TRIM".
4. Use +/- keys to active or inhibit "CTRL".
5. Use +/- keys to set the control switch position.
6. Press EXIT after setting.

7-8.PROG. CUR. MIX1-2



There are 2 curve mix programs, the curve is made up by 2 to 7 points.

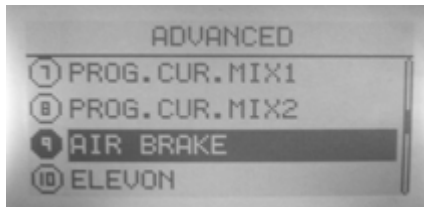
Setting Method:

Use up/down keys to select **PROG. CUR. MIX**, OK to enter editing.

Steps:

1. Use direction keys to select editing part. Set any two channels mix (1-2).
2. Use +/- keys to activate or inhibit "Mix".
3. Use +/- keys to activate or inhibit "Link" and "TRIM".
4. Use +/- keys to activate or inhibit "CTRL".
5. Use +/- keys to set the control switch position.
6. Set the curve point.(Normal/Advanced). Please refer to page 23.
7. Press EXIT after setting.

9. AIR BRAKE



AIR BRAKE simultaneously moves the flaps, twin ailerons and elevators, and is usually used to make steep descents or to limit increases in airspeed in dives.

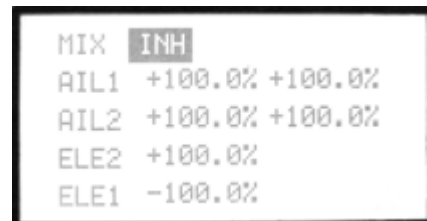
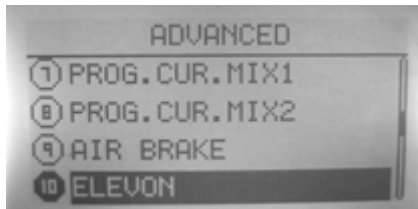
Setting Method:

Use up/down keys to select **AIR BRAKE**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to off/disable "Mix".
3. Use +/- keys to set Swit, POSI.
4. Use +/- keys to set CTRL (MAN/ THR).
5. Use +/- keys to set delay value. Long press OK is back to default.
6. Press EXIT after setting.

10. ELEVON



This function used with delta wings, flying wings and other tailless aircraft that combine aileron and elevator functions, using two servos, one on each elevon. The aileron/elevator responses of each servo can be adjusted independently.

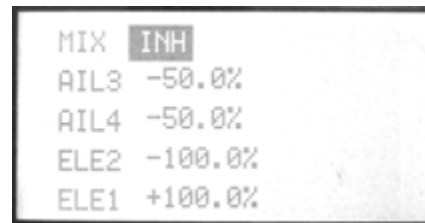
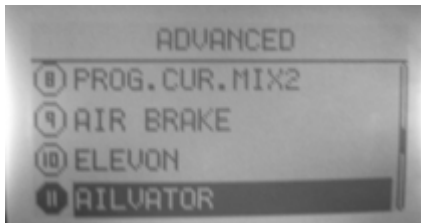
Setting Method:

Use up/down keys to select **ELEVON**, OK to enter editing.

Steps:

1. Use +/- keys to select on/disable.
2. Use direction keys to select editing part.
3. Use +/- keys to set value. Long press OK is back to default.
4. Press EXIT after setting.

11. AILVATOR



AILEVATOR mixing function uses one servo on each of the two elevators, and combines the elevator function with the aileron function(unless aileron travel is set to 0).

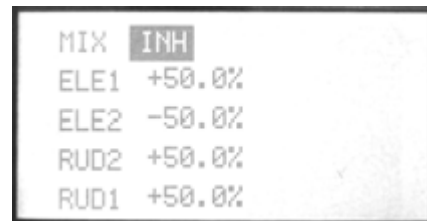
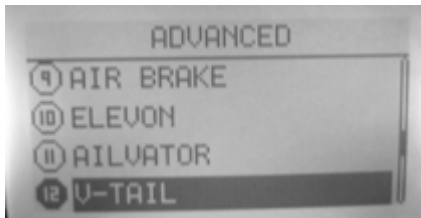
Setting Method:

Use up/down keys to select **AILVATOR**, OK to enter editing.

Steps:

1. Use +/- keys to select on/disable.
2. Use direction keys to select editing part.
3. Use +/- keys to set value. Long press OK **IS** back to default.
4. Press EXIT after setting.

12. V-TAIL



V-TAIL mixing is used with v-tail aircraft so that both elevator and rudder functions are combined for the two tail surfaces. Both elevator and rudder travel can be adjusted independently on each surface.

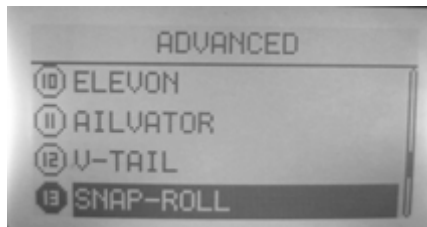
Setting Method:

Use up/down keys to select **V-TAIL**, OK to enter editing.

Steps:

1. Use +/- keys to select on/disable.
2. Use direction keys to select editing part.
3. Use +/- keys to set value. Long press OK is back to default.
4. Press EXIT after setting.

13. SNAP-ROLL



This function allows you to execute snap rolls by flipping a switch, providing the same input every time. It also removes the need to change dual rates on the 3 channels prior to performing a snap, as snap-roll always takes the servos to the same position, regardless of dual rates, inputs held during the snap, etc.

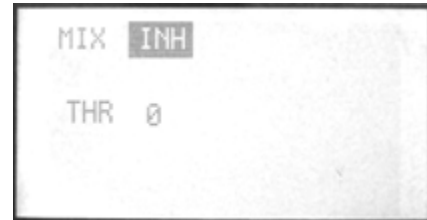
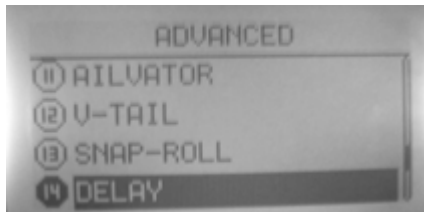
Setting Method:

Use up/down keys to select **SNAP-ROLL**, OK to enter editing.

Steps:

1. Use +/- keys to select off/disable.
2. Use direction keys to select editing part.
3. Use +/- keys to set value.
4. Press EXIT after setting.

14. DELAY



DELAY function is used to slow the response of the throttle servo to simulate the slow response of a turbine engine.

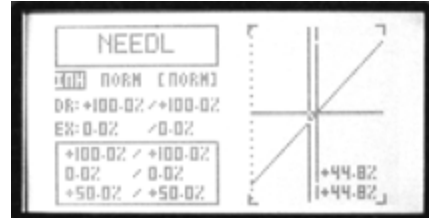
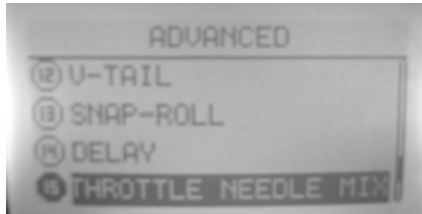
Setting Method:

Use up/down keys to select **DELAY**, OK to enter editing.

Steps:

1. Use +/- keys to select on/disable.
2. Use direction keys to select editing part.
3. Use +/- keys to set value. Long press OK is back to default.
4. Press EXIT after setting.

15. THROTTLE NEEDLE MIXING



Throttle needle is a pre-programmed mix that automatically moves an in-flight mixture servo in response to the Throttle Stick input for perfect engine tuning at all throttle settings. This function is particularly popular with contest pilots who fly in a large variety of locations, needing regular engine tuning adjustments, and requiring perfect engine response at all times and in all maneuvers. Also popular to minimize flooding at idle of inverted engine installations or installations with a high tank position. Not need for fuel injection engine, which do this automatically.

Setting Method

Use up/down keys to select **Throttle needle mixing**, OK to enter editing.

Steps:

1. Use +/- keys to activate or inhibit this function.

2 . Use direction keys to select "D/R"

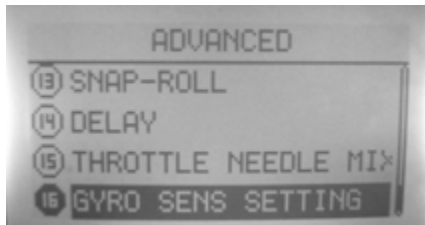
Edit one or two parameter.

+/- keys can increase or decrease the value.

Long press OK key is back to default.

3 . Curve setting method please refer to page 23.

16. GYRO SENS SETTING



User can adjust the gyro sensitivity by transmitter, AVCS gyro (GY) and normal gyro (STD).

Gyro sensitivity switch plug should plug in the fifth channel of receiver. The auxiliary channel CH 5 won't have any function now. User can set sensitivity switch from switch A to F, and also fly model (NORM, IDLE1,2,3).

Setting Method:

Use up/down keys to select **GYRO sens setting**, OK to enter editing.

Steps:

1. Use direction keys to select editing part.
2. Use +/- keys to set fly model at "CHANNEL".
3. Use +/- keys to on/disable "Mix".
4. Use +/- keys to set control switch at "CTRL".
5. Use +/- keys to set the switch position when the function is active.
6. Use +/- keys to set the "Rate". Long press OK is back to default.
7. Press EXIT after setting.

TO THE PILOT

Thank you for using WFT08X radio control system.
Welcome your valuable advice and we will continue developing the radio.

Welcome to contact us!

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