

## 8. 14HOV PITCH

## HELICOPTER

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key choose HOV PIT menu, press MENU key for short and enter the page to establish.

Press UP/DOWN key to choose the HOV PIT screen.

Press "+" or "-" key to change the selected (INH or ACT).

Press MENU key for short to keep result and return last menu. Press EXIT key to not keep and return last menu.



### HOVERING PITCH:

Hovering pitch are fine-tuning adjustments for the collective pitch curves individually, affecting performance only around the center point and only in the normal condition. They allow in-flight or ideal setup.

Press the **UP** or **DOWN** key to select the HOV PIT screen.

Press "+" or "-" key to change the selected (INH or ACT).

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu.

## 8. 15TRAINER

## HELICOPTER

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key choose TRAINER menu, press MENU key for short and enter the page to establish.

Press UP/DOWN key to choose the TRAINER screen.

Press "+" or "-" key to change the select CHANNEL (NORM or FUNC).

Press MENU key for short to keep result and return last menu. Press EXIT key for short to not keep and return to last menu.



### TRAINER:

For training novice pilots with optional trainer cord connecting 2 transmitters. The instructor has several levels of controllability.

**NORM:** When the trainer switch is ON, the channel set to this mode can be controlled by the student. The set channel is controlled according to any programming set at the student's transmitter.

**FUNC:** When the trainer switch is ON, the channel set to this mode can be controlled by student, controlled according to any mixing set at the instructor's transmitter.

Press the **UP** or **DOWN** key to select the TRAINER screen.

Press "+" or "-" key to change the select channel NORM or FUNC).

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu.

## 8. 16DISPLAY

## HELICOPTER

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key choose DISPLAY menu, press MENU key for short and enter the page to establish.

Press the UP or DOWN key to select the TEST (ON or OFF).

Press MENU or EXIT key return last menu.



### DISPLAY:

Display radio's output to channels 1-8.

The servo submenu includes two features:

Real-tune bar-graph display to demonstrate exactly what commands the transmitter is sending to the servos. (This can be particularly handy in setting up models with complicated mixing functions, because the results of each stick, lever, knob, switch input and delay circuit may be immediately seen.)

Servo cycle function to help locate servo problems prior to in-flight failures.

Press the **UP** or **DOWN** key to select the TEST (ON or OFF).

Press the **MENU** key to return last menu.

Press the **EXIT** key to return last menu.

## 8. 17TIMER

## HELICOPTER

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key choose TIMER menu, press MENU key for short and enter the page to establish.

Press UP/DOWN key to choose the TIMER screen.

Press "+" or "-" key to change the select CHANNEL (INT or ACT).

Press MENU key for short to keep result and return last menu. Press EXIT key go not keep and return last menu.



### TIMER:

The time-recorder is used calculating comparable to stipulated time unexpectedly, or the possible time of flight under the state that the fuel fill it up with, it is very convenient. The pattern of the time-recorder is the count-down. Pour time-recorder from set for time is it is count to change, show surplus time at interface to begin. The time-recorder can set for the settlement time of 99 minutes and 59 seconds altogether at most.

**START:** Press TRN switch. **STOP:** Press trn switch

**REST TIMER:** Press EXIT key for long time of the initial picture.

**STANTE:** INH forbids this function, ACT launches the function.

**Warn the sound:** After establishing time for less than 59 seconds, warning sound appears in one second in every interval [Bi]: It sets for time to finish long and loud.

Press the **UP** or **DOWN** key to select the TIMER screen. Press "+" or "-" key to change the select channel (INT or ACT).

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu.

## 8. 18GYRO SENS

## HELICOPTER

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key choose GYRO SENS menu, press MENU key for short and enter the page to establish.

Press UP/DOWN key to choose the GYRO SENS screen.

Press "+" or "-" key to change the selected GYRO SENS value.

Press MENU key for short to keep result and return last menu. press EXIT key for short to not keep and return to last menu.



### GYRO SENS:

A gyroscope is an electronic unit that senses motion and corrects for it. For example, if the wind blows your helicopter's tail to the left, a gyro will sense that motion (and confirm that no input was given) and will correct for it.

Plug the gyro's sensitivity adjustment to channel 5 of the receiver.

Each gyro setting may be set from -100 to +100 gain.

INH: disable the function.

ACT: enable the function.

Press the **UP** or **DOWN** key to select the GYRO SENS screen.

Press "+" or "-" key to change the selected UPRATE or DNRATE value.

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu.

## 8. 19STNT TRIM

## HELICOPTER

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key choose STNT TRIM menu, press MENU key for short and enter the page to establish.

Press UP/DOWN key to choose the STNT TRIM screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. press EXIT key for short to not keep and return to last menu.



### STNT TRIM:

It is used for finely tuning the aileron while flying in overhead skill that the stunt is finely tuned. The elevator and end rudder. This function is helpful only when in ID1, ID2.

INH: disable the function.

ACT: enable the function.

Press the **UP** or **DOWN** key to select the STNT TRIM screen.

Press "+" or "-" key to change the select AIL or ELE and RUD value.

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu.

## 8.20PROG<123>

## HELICOPTER

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key choose PROG<123> menu, press MENU key for short and enter the page to establish.

Press UP/DOWN key to choose the PROG<123> screen.

Press MENU key for short into next submenu.

Press EXIT key to return last menu.



### PROG<123>:

In helicopter mode the FS-TH9X offer three programmable mixes that allow stick or switch inputs to control the output of two or more servos. This function allows mixing any one channel to any other channel or the ability to mix a channel to itself. The mix can remain ON at all times, or be switched OFF in flight using a number of different switches. (Refer to chart below.) Mix values are adjustable from 0 to 100%. Each channel is identified by a four-character name (i.e., Aileron-AILE, Elevator-ELEV, etc.). The channel appearing first is the master channel. The second channel is the slave channel. For example, AILE-ELEV would indicate aileron-to-elevator mixing. Each time the aileron stick is moved, the elevator will deflect, and the elevator will automatically move in the direction and to the position based on the value input in the programmable mix screen. Mixing is proportional, so small inputs of the master channel will produce small outputs of the slave channel. Each programmable mix has a mixing offset. The purpose of the mixing offset is to redefine the neutral position of the slave channel.

Press the **UP** or **DOWN** key to select the PROG<123> screen.

Press the **MENU** key into next submenu.

Press the **EXIT** key to return last menu.

## 8.20.1PRAGRAM MIXING 1

## HELICOPTER

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key choose PROG<123> menu, press MENU key for short and enter the page to establish.

Press UP/DOWN key to choose the P.MIX1 menu, press MENU key for short into next submenu.

Press UP/DOWN key to choose the P.MIX1 screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. press EXIT key for short to not keep and return to last menu.



### P. MIX1 (PROGRAM MIXING1):

Mix purpose to accuse of form to get rid of little mistake of organism, make it is it can take the heart conveniently even more to have not to handle. The very wanton one mixes accusing of among the channel.

**INH**: disable the function. **ACT**: enable the function. **MASTER**: select input channel. **SLAVE**: select output channel.

**SW**: NOR/IDL1, IDL2, ON.

Press the **UP** or **DOWN** key to select the P.MIX1 screen.

Press "+" or "-" key to change the select value.

Press the **MENU** key to save and return last menu

Press the **EXIT** key to not keep and return last menu

## 8. 20. 2PROGRAM MIXING2

## HELICOPTER

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key choose PROG<123> menu, press MENU key for short and enter the page to establish.

Press UP/DOWN key to choose the P.MIX2 menu, press MENU key for short into next submenu.

Press UP/DOWN key to choose the P.MIX2 screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. press EXIT key for short to not keep and return to last menu.



### P. MIX1 (PROGRMA MIXING2) :

Mix purpose to accuse of form to get rid of little mistake of organism, make it is it can take the heart conveniently even more to have not to handle. The very wanton one mixes accusing of among the channel.

**INH:** disable the function.

**ACT:** enable the function.

**MASTER:** select input channel.

**SLAVE:** select output channel.

**SW:** NOR/IDL1, IDL2, ON.

Press the **UP** or **DOWM** key to select the P.MIX2 screen.

Press "+" or "-" key to change the select value.

Press the **MENU** key to save and return last menu

Press the **EXIT** key to not keep and return last menu

## HELICOPTER

## 8. 20. 3PROGRAM MIXING3

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key choose PROG<123> menu, press MENU key for short and enter the page to establish.

Press UP/DOWN key to choose the P.MIX3 menu, press MENU key for short into next submenu.

Press UP/DOWN key to choose the P.MIX3 screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. press EXIT key for short to not keep and return to last menu.



### P. MIX3 (PROGRMA MIXING1) :

Mix purpose to accuse of form to get rid of little mistake of organism, make it is it can take the heart conveniently even more to have not to handle. The very wanton one mixes accusing of among the channel.

**INH:** disable the function. **ACT:** enable the function.

**MASTER:** select input channel.

**SLAVE:** select output channel.

**SW:** NOR/IDL1, IDL2, ON.

**CURVE:** curves have five adjustable points-low, 25%, 50%, 75% and high.

Press the **UP** or **DOWM** key to select the P.MIX1 screen.

Press "+" or "-" key to change the select value.

Press the **MENU** key to save and return last menu

Press the **EXIT** key to not keep and return last menu



## 9 FUNCTION SETTING (FOR AIRPLANE)



Page1



Page2

### 9. 1 REVERSE

### AIRPLANE

#### STEPS:

Under the state of the initial picture, press MENU key forlong, access the main menu.



Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.



Press UP/DOWN key to select the REVERSE menu, and press MENU key for short into next submenu.



Press UP/DOWN key to choose the REVERSE screen.



Press "+" or "-" key to reverse the servo direction for that selected channel.



Press MENU key for short to keep result and return last menu. press EXIT key for short to not keep and treurn to last menu.



#### REVERSE:

The reverse switch function allows electronic means of reversing the servo's throw .Servo reversing is available for all 9 channels.

Press the **UP** or **DOWM** key to select the Reverse screen.

Press "+" or "-" key to reverse the servo direction for that selected channel.

Press the **MENU** key to save and return last menu

Press the **EXIT** key to not keep and return last menu

AIL:	Aileron
ELE:	Elevator
THR:	Throttle
RUD:	Rudder
GEA:	Retractable landing Gear
PIT:	Ptich(ch6)
AUX1:	Auxiliary1
AUX2:	Auxiliary2

## 9. 2TRAINER

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the TRAINER menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the TRAINER screen.

Press "+" or "-" key to change the select CHANNEL (NORM or FUNC).

Press MENU key for short to keep result and return last menu. press EXIT key for short to not keep and return to last menu.



### TRAINER:

For training novice pilots with optional trainer cord connecting 2 transmitters. The instructor has several levels of controllability.

**NORM:** When the trainer switch is ON, the channel set to this mode can be controlled by the student. The set channel is controlled according to any programming set at the student's transmitter.

**FUNC:** When the trainer switch is ON, the channel set to this mode can be controlled by student, controlled according to any mixing set at the instructor's transmitter.

Press the **UP** or **DOWN** key to select the TRAINER screen. Press "+" or "-" key to change the select channel NORM or FUNC). Press the **MENU** key to save and return last menu. Press the **EXIT** key to not keep and return last menu.

## 9. 3SUB TRIM:

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the SUB TRIM menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the SUB TRIM screen.

Press "+" or "-" key to adjust the sub-trim position for that selected channel.

Press MENU key for short to keep result and return last menu. press EXIT key for short to not keep and return to last menu.



### SUB TRIM:

The SUB-TRIM function allows you to electronically adjust the centering of each servo. Sub trim is individually adjustable for all 8 channels, with a range of +or-120%.

Press the **UP** or **DOWN** key to select the SUB TRIM screen.

Press "+" or "-" key to adjust the sub-trim position for that selected channel.

Press the **MENU** key to save and return last menu. Press the **EXIT** key to not keep and return last menu.

**NOTE:** Do not use excessive sub-trim values as it is possible to overdrive the servo's maximum travel.

## 9. 4END POINT

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the END. POINT menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the E. POINT screen.

Press "+" or "-" key to adjust the E. POINT position for that selected channel.

Press MENU key for short to keep result and return last menu. press EXIT key for short to not keep and return to last menu.



### END POINT:

The most flexible version of travel adjustment available. It independently adjusts each end of each individual servo's travel, rather than one setting for the servo that affects both directions. Ranges from 0% to 120%.

Press the **UP** or **DOWN** key to select the E. POINT screen.

Press "+" or "-" key to adjust the END POINT position for that selected channel.

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu

**NOTE:** Do not use excessive E. POINT values as it is possible to overdrive the servo's maximum travel.

## 9. 5THRO HOLD

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the THRO HOLD menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the THRO HOLD screen.

Press "+" or "-" key to select the state (INT or ACT) and change the throttle hold value..

Press MENU key for short to keep result and return last menu. press EXIT key for short to not keep and return to last menu.



### THRO HOLD:

The Throttle hold function is used to practice autorotation and is often used as a safety switch for electric helicopters, holding the throttle in the off position. When the throttle hold switch is activated, the throttle hold function holds the throttle servo/ESC in a specific position (normally low or off throttle) while all other servos function normally.

Press the **UP** or **DOWN** key to select the THRO HOLD screen.

Press "+" or "-" key to select the state (INT or ACT) and change the throttle hold value..

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu.



## 9. 6FLAPERON:

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the FLAPERON menus, and press MENU key for short into next submenu.

Press the UP or DOWN key to select the HELL screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. Press EXIT key to not keep and return last menu.



### FLAPERON:

The FLAPERON mixing function uses one servo on each of the two ailerons, and uses them for both aileron and flap function. For flap effect, the ailerons raise/lower simultaneously. Of course, aileron function (moving in opposite directions) is also performed.

Press the **UP** or **DOWN** key to select the FLAPERON screen.  
Press the "+" or "-" key to change the select FLAPERON value.  
Press the **MENU** key to save and return last menu.  
Press the **EXIT** key to not keep and return last menu.

## 9. 7D/R&EXP

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

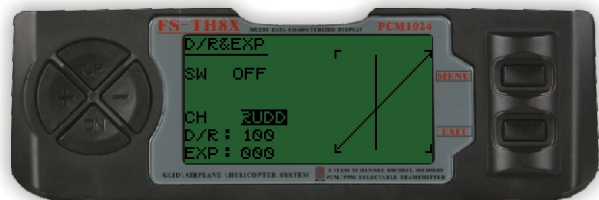
Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the D/R&EXP menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the D/R&EXP screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. Press EXIT key for short to not keep and return to last menu.



### D/R&EXP:

The Dual Rate and Exponential function allows two control rates to be programmed and selected with a switch. Dual rates and expos are available on the aileron, elevator and rudder channels. Changing the dual rate value not only affects the maximum control authority but also affects the overall sensitivity of control. A higher rate yields a higher overall sensitivity. The sensitivity around center can be tailored using the Exponential function to precisely adjust control feel.

Press the **UP** or **DOWN** key to select the D/R & EXP screen.  
Press the "+" or "-" key to change the select D/R & EXP value.  
Press the **MENU** key to save and return last menu.  
Press the **EXIT** key to not keep and return last menu.

## 9. 8TRIM

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the TRIM menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the TRIM screen.

Press "+" or "-" key to change the selected TRIM value.

Press MENU key for short to keep result and return last menu. Press EXIT key go not keep and return last menu.



### TRIM:

The FS-TH9X super has digital trims which are different from conventional mechanical trim sliders. Each trim lever is actually a two-direction switch. Each time the trim lever is pressed, the trim is changed a selected amount. When you hold the trim lever, the trim speed increases. The current trim position is graphically displayed on the start up screen. The trim submenu includes two functions that are used to manage the trim options.

Press the **UP** or **DOWN** key to select the TRIM screen. Press "+" or "-" key to change the selected trim value.

Press the **MENU** key to save and return last menu. Press the **EXIT** key to not keep and return last menu.

## 9. 9IDLEDOWN

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the IDLE DOWN menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the IDLEDOWN screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. Press EXIT key go not keep and return last menu.



### IDLEDOWN (ACRO only):

Lowers 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.

Press the **UP** or **DOWN** key to select the IDLEDOWN screen. Press "+" or "-" key to change the select IDLEDOWN value. Press the **MENU** key to save and return last menu. Press the **EXIT** key to not keep and return last menu.

## 9. 10FAIL SAF

### AIRPLANE

#### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the FAIL SAF menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the FAIL SAF screen.

Press "+" or "-" key to change the selected (NOR or F/S).

Press MENU key for short to keep result and return last menu. Press EXIT key for short to not keep and return to last menu.



#### FAIL SAF:

Sets responses in case of loss of signal or low rx battery (PCM mode only).

Press the **UP** or **DOWN** key to select the FAIL SAF screen.

Press + / - key for short and regulate the parameter (when showing for F/S XXX% for parameter, Press **MENU** key for short and see that reads the output of the corresponding passway, regard value read as the establishing value)

Press the **MENU** key to save and return last menu. Press the **EXIT** key to not keep and return last menu.

## 9. 11TIMER

### AIRPLANE

#### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the TIMER menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the TIMER screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. Press EXIT key go not keep and return last menu.



#### TIMER:

The time-recorder is used calculating comparable to stipulated time unexpectedly, or the possible time of flight under the state that the fuel fill it up with, it is very convenient. The pattern of the time-recorder is the count-down. Pour time-recorder from set for time is it is it count to change, show surplus time at interface to begin. The time-recorder can set for the settlement time of 99 minutes and 59 seconds altogether at most.

**START:** Press TRN switch. **STOP:** Press trn switch. **REST TIMER:** Press EXIT key for long time of the initial picture.

**STANTE:** INH forbids this function, ACT launches the function.

**Warn the sound:** After establishing time for less than 59 seconds, warning sound appears in one second in every interval [Bi]: It sets for time to finish long and loud.

Press the **UP** or **DOWN** key to select the TIMER screen. Press "+" or "-" key to change the select TIMER value.

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu.

## 9. 12 DISPLAY

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the DISPLAY menus, and press MENU key for short into next submenu.

Press the UP or DOWN key to select the TEST (ON or OFF).

Press MENU or EXIT key return last menu.



### DISPLAY:

Display radio's output to channels 1-8.

The servo submenu includes two features:

Real-tune bar-graph display to demonstrate exactly what commands the transmitter is sending to the servos. (This can be particularly handy in setting up models with complicated mixing functions, because the results of each stick, lever, knob, switch input and delay circuit may be immediately seen.)

Servo cycle function to help locate servo problems prior to in-flight failures.

Press the **UP** or **DOWN** key to select the TEST (ON or OFF).

Press the **MENU** key to return last menu.

Press the **EXIT** key to return last menu.

## 9. 13 FLAPTRIM

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the FLAPTRIM menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the FLAPTRIM screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. Press EXIT key go not keep and return last menu.



### FLAPTRIM:

FLAP-TRIM assigns the primary flap control to allow trimming in flight of the flap action of flaperons. (Note: even if FLAP-TRIM is made active with AIL-DIFF, it will not have any effect. The ONLY function that allows control of the ailerons as flaps in the AIL-DIFF configuration is AIRBRAKE.) Most modelers use AIRBRAKE, or programmable mixes, to move the flaps to a specified position via movement of a switch.

FLAP-TRIM may also be used as the primary flap control in flight by doing so, you can assign CH6 to a 3-position switch, with a "spoiler on", neutral, and "flap on" position, and even adjust the percentage traveled as flap on/spoiler on by changing the Flap Trim travel. (Note that there is only one setting not independent settings for up and down travel).

Press the **UP** or **DOWN** key to select the FLAPTRIM screen. Press "+" or "-" key to change the select FLAPTRIM value.

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu.

## 9. 14AILDIFF

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the AILD DIFF menus, and press MENU key for short into next submenu.

Press the UP or DOWN key to select the AILD DIFF screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. Press EXIT key go not keep and return last menu.



### AILDIFF:

Aileron differential is primarily used on 3 or 4-servo wings with one servo(s) operating inboard flap(S) on CH6 or CH5 & CH6, and AIL-DIFF controlling proper aileron operation of 2 aileron servos plugged into CH1 and CH7. The ailerons can not be moved like flaps when using AIL-DIFF, except if using AIRBRAKE (Note that even if you make FLAP TRIM active while using AIL-DIFF, it will not have any effect, ONLY AIRBRAKE controls the ailerons as flaps in the AIL-DIFF configuration).

**NOTE:** When changing the polarity of a rate, "change rate dir?" is displayed for a check please set up after pressing DIAL for 1 second and canceling an alarm display (GLID only).

Press the **UP** or **DOWN** key to select the AILD DIFF screen. Press "+" or "-" key to change the select AILD DIFF value.

Press the **MENU** key to return last menu.

Press the **EXIT** key to return last menu.

## 9. 15AIRBRAKE

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the AIRBRAKE menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the AIRBRAKE screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. Press EXIT key go not keep and return last menu.



### AIRBRAKE:

Like FLAPERON and AILEVATOR, AIRBRAKE is one function that is really made up of a series of pre-programmed mixes all done for you within the radio AIRBRAKE simultaneously moves the flap(s) (if installed) twin ailerons (if installed) and elevator(S), and is usually used to make steep descents or to limit increases in airspeed in dives.

This function is often used even on models without flaps as an easy way to use the flaperons and FLAP-ELEVATOR mixing together.

Press the **UP** or **DOWN** key to select the AIRBRAKE screen. Press "+" or "-" key to change the select AIRBRAKE value.

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu.



## 9. 16ELEFLAP

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the ELEFLAP menus, and press MENU key for short into next submenu.

Press the UP or DOWN key to select the ELEFLAP screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. Press EXIT key go not keep and return last menu.



### ELEFLAP:

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.

Press the **UP** or **DOWN** key to select the ELEFLAP screen.

Press "+" or "-" key to change the select ELEFLAP value.

Press the **MENU** key to return last menu.

Press the **EXIT** key to return last menu.

## 9. 17V-TAIL

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.

Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.

Press UP/DOWN key select the V-TAIL menus, and press MENU key for short into next submenu.

Press UP/DOWN key to choose the V-TAIL screen.

Press "+" or "-" key to change the select value.

Press MENU key for short to keep result and return last menu. Press EXIT key go not keep and return last menu.



### 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.

NOTE: If V-TAIL is active, you cannot activate ELEVON or AILEVATOR functions. If one of these functions is active, an error message will be displayed, and you must deactivate the last function prior to activating ELEVON.

NOTE: Be sure to move the elevator and rudder sticks regularly while checking the servo motions. If a large value of travel is specified, when the sticks are moved at the same time, the controls may bind or run out of travel. Decrease the travel until no binding occurs.

Press the **UP** or **DOWN** key to select the V-TAIL screen. Press "+" or "-" key to change the select V-TAIL value.

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu.

## 9. 18ELEVON

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.



Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.



Press UP/DOWN key select the ELEVON menus, and press MENU key for short into next submenu.



Press the UP or DOWN key to select the ELEVON screen.



Press "+" or "-" key to change the select value.



Press MENU key for short to keep result and return last menu. Press EXIT key go not keep and return last menu.



### ELEVON:

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. This is also popular for ground model use such as tanks which drive two motors together for forward and one motor forward/one backward for turning.

### Adjustability:

Requires use of CH1 and Ch2

Independently adjustable aileron travel allows aileron differential.  
Independently adjustable elevator travel allows for differential in up vs down travel.

Press the **UP** or **DOWN** key to select the ELEVON screen.

Press "+" or "-" key to change the select ELEVON value.

Press the **MENU** key to return last menu.

Press the **EXIT** key to return last menu.

## 9. 19SNOPROLL

## AIRPLANE

### STEPS:

Under the state of the initial picture, press MENU key for long, access the main menu.



Press UP/DOWN key select the FUNC SETTING menus, and press MENU key for short into next submenu.



Press UP/DOWN key select the SNOPROLL menus, and press MENU key for short into next submenu.



Press UP/DOWN key to choose the SNOPROLL screen.



Press "+" or "-" key to change the select value.



Press MENU key for short to keep result and return last menu. Press EXIT key go not keep and return last menu.



### SNOPROLL:

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.

Travel: Adjust the amount of elevator, aileron and rudder travel automatically applied.

Range: -100 to +100 on all 3 channels. Default is 100% of range of all 3 channels.

Directions: Up to 4 separate snaps may be set up one for each of the 4 direction choices (UP/right, down/right, up/left). Each snap is fully adjustable regarding travels and direction on each of the 3 channels.

Press the **UP** or **DOWN** key to select the SNOPROLL screen.

Press "+" or "-" key to change the select SNOPROLL value.

Press the **MENU** key to save and return last menu.

Press the **EXIT** key to not keep and return last menu.