

### 2.10 Device Output

Device output can set up the output switches respectively. It can also activate, inhibit or use other functions. There are FMODE switch, Hold switch, SPSO, SPS1, SPS2, SPS3.

Press ENT to enter Main Menu, press UP or DN to move navigational mark to Model Menu. Press ENT to enter Model menu. Press UP or DN to select Output device and press ENT to enter Output device interface.

Below three items can be adjusted: Gear, Flap, AUX2.

#### (1) Gear



Press UP or DN in output interface can change the gear switch. It includes FMODE SW, HOLD SW, SPSO, SPS1, SPS2, SPS3. Press R or L to select the setting switch, the default setting is HOLD SW.

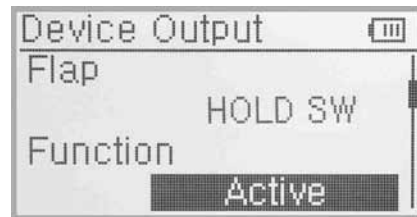
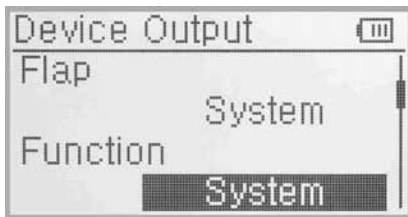
Press UP or DN to select Function setting after you select the switch, Press R or L enter the interface of Gear active, inhibit, Gyro and Governor. The default setting is Active. You can continue to set other items after finished.



#### (2) Flap

Press UP or DN to move navigation marks to Function setting below Flap. The factory default setting is System Output setting.

It's possible to change via pressing L to show Flap Output setting.



Press UP or DN to move navigational mark to Flap. Press R or L to expand the menu including FMODE SW, HOLD SW, SPSO, SPS1, SPS2, SPS3. The default setting is HOLD SW.

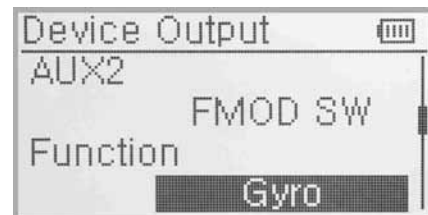
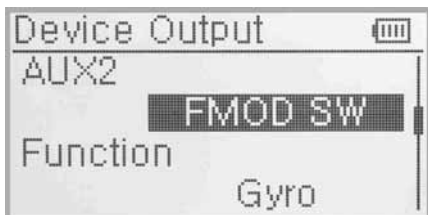
Press UP or DN to move navigational mark to Function setting. Press R or L to select the items you want to set up. And the items includes Inhibit, Active and System. Continue to set up other items after setting finished.



#### (3) AUX 2

Press UP or DN to enter the AUX2 interface. Press R or L can change the AUX2 switch. It includes FMODE SW, HOLD SW, SPSO, SPS1, SPS2, SPS3 The default setting is FMODE switch.

Press UP or DN to select the Function setting, press R or L to choose the switch, it includes inhibit, active, Gyro, Governor, the default setting is Gyro. You can continue to set other items after finished .

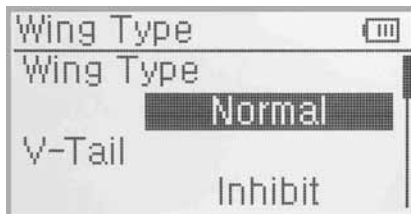


### 2.11 Wing Type

Wing Type is grouped into Normal, Flaperon, Delta and V-Tail.

Wing Type selection:

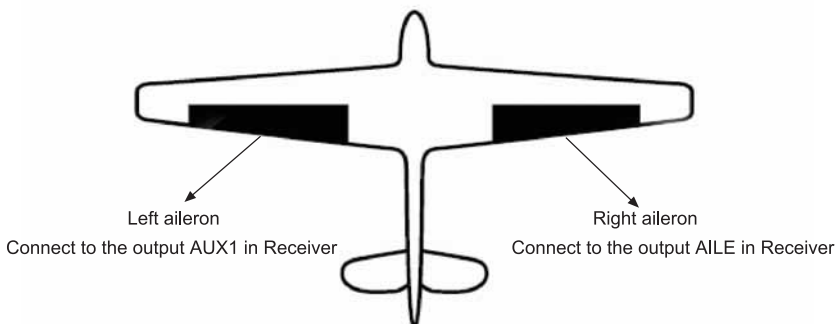
Press ENT to enter Main Menu, press UP or DN to move navigation mark to Model Menu. Press ENT to enter Model Menu. Press UP or DN to choose Wing Type, and press ENT to enter the Wing Type interface. Press UP or DN to move navigation mark to Wing Type. Press R or L to choose Wing Type. The Wing Type are Normal, Flaperon and Delta.



#### (1) Flaperon

Press R or L to choose Flaperon under Wing Type.

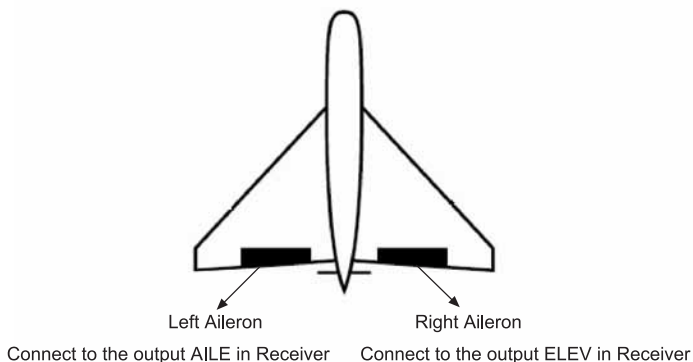
Below is the sketch map of Flaperon servos' assignment:



#### (2) Delta

Press R or L to choose Delta in Wing Type.

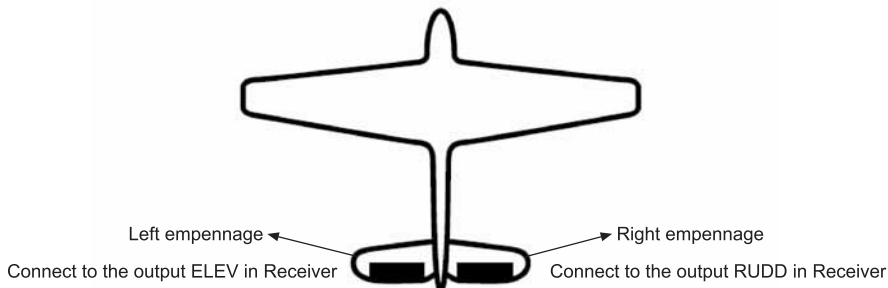
Below is the sketch map of Delta servos' assignment:



#### (3) V-tail

Press UP or DN to move navigation mark to V-TAIL under V-Tail interface. There are Inhibit and Active, please choose Active. V-tail is unadjustable when the Wing type is DELTA.

Below is the sketch map of servos' assignment in V-tail:



(4) Dual channels setting

Dual Channels can be set as Elevator, Aileron, Rudder, or Flaperon. It is of dual channel output function. The channel, which will be set as dual channel at AUX in Device Output (Refer to “2.10 Device Output”), should be previously set as Inhibit when the AUX channel is being set.

Setting method:

Channel setting: Press UP or DN to move the navigational mark to item Dual Channels in the interface of Wing Type. Pressing R or L, there are items of Elevator, Aileron, Rudder, and Flap. We take Elevator as an example.



(4.1) Mate setting: Press UP or DN to move navigational mark to “Mate Channels” , press R or L to select the desired channel in the menu with Inhibit and the inhibited channels previously set in “Device Output”.



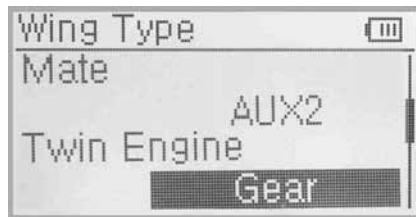
The settings of Aileron, Rudder and Flap in the item Channel are same as above.

(5) Twin Engine

This function can be set as twin engine output to meet the requirement for the models, which are powered by twin engines.

(5.1) Mate setting: Press UP or DN to select “Twin Engine” setting, press R or L to choose the desired channel in the menu with Inhibit and the inhibited channels previously set in “Device Output”.

Press EXT after setting finished.



**2.12 Fixed ID**

This setting will bind DEVO 7E with its receiver in a unique corresponding relationship. It will greatly speed up the time of automatic binding when DEVO 7E powered on.

(1) Setting for fixed ID

The setting for fixed ID should be under the status that automatic ID binding is successfully finished. Below is the setting method.

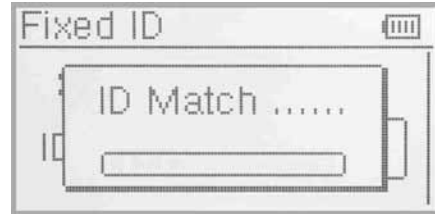
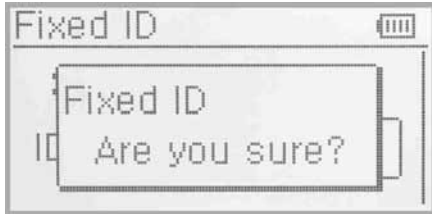
Press ENT to enter the Main Menu and press UP or DN to move the navigational mark to select Model menu. Press ENT to enter Model Menu. Press UP or DN to select Fixed ID and press ENT to enter the Fixed ID setting interface.

If you want to activate the fixed ID settings, press R or L to change the status from off to ON(The default setting is OFF). A series of random digits will be shown below after change to On.



Press UP or DN to choose the ID code setting and press ENT to confirm. Press R or L to choose the digits. After finished, press DN to move to the next code setting, there are 6 digits can be setted.

Press ENT key after the new ID has been setted. An inquiry interface of "Are you sure?" pop up. "ID Code Matching ... .." will be shown after press ENT. After matching, the interface will be returned to Model Menu.



(2) Fixed ID cancellation

Insert the assorted BIND PLUG into the output terminal of BATT before the receiver is powered on, and then plug 5V DC power into other output terminal. The red light of receiver will flash slowly. This means the fixed ID code has been cancelled. Pull out bind plug. DEVO 7E also needs to make relative cancellation and revision after the fixed ID in receiver is cleared out.

In the main interface press the ENT to enter Model Menu and then press UP or DN to move the navigational mark to select MODEL MENU. Press ENT to enter MODEL MENU. Press UP or DN to select Fixed ID code and press ENT key to enter the Fixed ID code interface. Press UP or DN to select STATUS option, Press R or L to change the status to Off. Then press EXT to exit.



2.13 Sensor setting

Setting method: press ENT enter to the Main Menu. Press UP or DN to select the Model Menu. Press ENT enter to Model Menu. Press UP or DN to select sensor press ENT enter to the sensor setting interface. See the Illustration.



Press R or L to select Activate or Inhibit (the default setting is Inhibit), such as press Activate will includes No Signal Warning, Voltage sensor, Temperature sensor, GPS receiver setting etc.

(1) No Signal Warning

Press UP or DN to make the navigation mark to choose "No Signal Warning". Press R or L to choose "Inhibit" or "Active" (default setting is "inhibit"). If you choose "Active", the Radio will alarm when telemetry signal lost. As following:



(2) Voltage setting

There are 3 different types of voltage can be measured. It includes Internal 5V, External V1 and V2 which can be monitored two different external voltage (i.e. battery) respectively. Once the measured voltage is lower than the setting value, the Radio will alarm.

(2.1) Receiver 5V (Internal) PFV (Power Feeding Voltage) Alarmed value can be setted as 3.6-6V

Voltage setting: press R or L to activate the 5V, the alarm interface will appear in the interface, please refer to the Illustration.



Press UP or DN to select the Alarm Voltage setting,press R or L to set the value. The range is 3.6-6V. you can continue to set other items after you finished.

(2.2) External V1

Press UP or DN enter to External V1 setting interface. Press R or L to activate the V1,the details refers to the Illustration.



Press UP or DN to select the Alarm Voltage setting. Press R or L to set the value. The setting range is 0.2~99.9V. you can continue to set other items after you finished.

(2.3) External: V2 setting can refer to External V1 setting.

Press EXT back to sensor setting interface after you finished.

(3) Temperature sensor

The temperature sensor can measure up to 4 different temperature(i.e.motors).You can choose Celsius or Fahrenheit.The alarmed value can be setted to 4 different temperature.Once the measured value is higher than the setting value,the radio will alarm.The Alarm Temperature value can be setted as -20~220 C or -4.0~428.0° F.

Temperature Setting:

In the "Sensor Setting"interface,press UP or DN to make the navigation mark to choose "Temperature Sensor",and press ENT to enter "Temperature Sensor"setting interface.See the illustration.



(3.1) Unit

Press UP or DN to make the navigation mark to choose "Unit"setting item,and press R or L to choose Unit, two kinds of Unit:Celsius and Fahrenheit.

(3.2) Alarm Temperature settings

Press UP or DN select the T1 ,Press R or L to activate the setting.Inhibit will change to Active and Alarm temperature will be shown. If you choose Inhibit, the Alarm temperature value won't be shown.

Press UP or DN to select "Alarm"setting,press R or L to set the alarm temperature value.Press UP or DN to set other items after finishing the setting.



(3.3) T2,T3,T4 setting

Refer to the step of "(3.2)T1".

(4) GPS setting

There are 4 items including Altitude Type,Speed Unit,Date Type and Time Zone in the GPS receiver setting interface. Press UP or DN to select the Sensor setting interface to enter the GPS setting interface.





(4.1) Altitude Type

Press UP or DN to select the Altitude type on the GPS setting interface and it's Absolute and Relative.



(4.2) Speed Unit

Press UP or DN to select the Speed Unit on the GPS setting interface and it includes knots and km/h and relative. Select the desired item.



(4.3) Date Type

Press UP or DN to select the Date Type on the GPS setting interface and it includes DD-MM-YY,MM-DD-YY and YY-MM-DD. Select the desired item.

(4.4) Time Zone

Press UP or DN to select the Time Zone , press R or L to set the desired Time Zone.



(4.3) Date Type



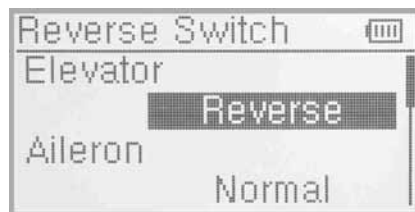
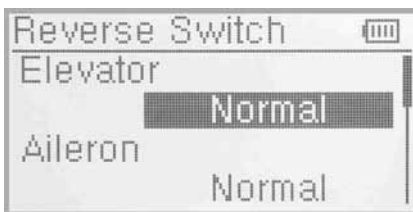
(4.4) Time Zone

## 3.0 Function Menu

Function Menu can help you custom adjustments for the selected models. The menu includes such items as Reverse Switch, Travel Adjust, Sub Trim, Dual Rate and Exponential, Throttle Hold, Throttle Curve, Differential,Balance,Gyro Sensor, Governor,Aileron to Rudder Mix,Elevator to Flap Mix, Rudder to Aileron/Elevator Mix,Flap System,Aileron to Flap Mix, Program Mix, Monitor,Fail Safe, Sensor view, Trainer and Timer.

### 3.1 Reverse Switch

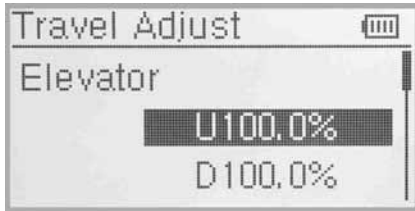
Press ENT in main interface to enter main menu; Press UP or DN to move the navigation mark to Function Menu. And press ENT to enter Function Menu, Press UP or DN to choose Reverse Switch and Press ENT to enter into Reverse Switch interface.



Press UP or DN to move navigation mark to ELEV(take Elevator for example),Press R or L to shift the status between normal and reverse. These are two status for option. And the default setting is Normal. All Channels Reverse Switch like: Aileron, Throttle, Rudder, Gear, Flap, Gyro can be referred to the way of ELE Reverse Switch. And press EXT to exit after setting finished.

### 3.2 Travel Adjust

Press ENT to enter into main menu. Press UP or DN to move navigation mark to selected item Function menu. Press ENT to enter Function Menu. Press UP or DN to select Travel Ajust, Press ENT to enter Travel Adjust interface, as below illustration. It shows the Travel Adjust status of one channel:



Take ELEV for example, Press UP or DN to move navigation to desired item Elevation of U. Press R or L to increase or decrease the servo travel range. The adjustment range is from 0.0% to 150.0%. The factory default is 100.0%.

Press UP or DN to move navigation mark to desired item D of ELEv. Press R or L to increase or decrease the servo travel range. The range is from 0.0% to 150.0%. The factory default is 100.0%.

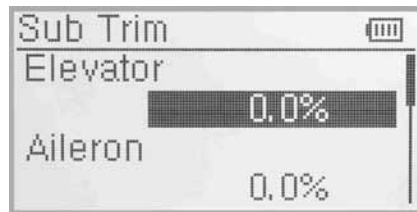
All other channel's Travel Adjust like Aileron, Throttle, Rudder, Gear, Flap, Gyro can be referred to ELEV travel Ajust. Press EXT to exit after setting finished.

### 3.3 Sub Trim

Sub Trim can parallel move the neutral point of the servo. But we advise you to mechanically adjust the servo bell crank if offset is far away from the neutral point of servo, because excessive usage of the sub trim may damage the servo.

Setting method:

Press ENT to enter Main Menu, Press UP or DN to move the navigation mark to desired item Function menu. Press ENT to enter Function menu, Press UP or DN to select Sub trim, and press ENT to enter Sub Trim interface.



The interface shows the items and the channels which are adjustable. Press R or L to change the neutral point of Servos. The factory default is 0.0%. Press UP or DN to choose desired items. The range as below:

Channel name	Adjustment range	Channel name	Adjustment range
Elevator	D62.5% ~ U62.5%	Gear	-62.5% ~ +62.5%
Aileron	R62.5% ~ L62.5%	Flap	D62.5% ~ U62.5%
Throttle	L62.5% ~ H62.5%	Gyro	-62.5% ~ +62.5%
Rudder	R62.5% ~ L62.5%		

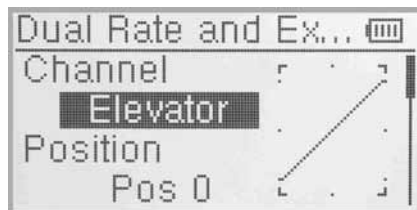
Press EXT to exit after adjustment finished.

### 3.4 Dual rate and Exponential

After this function is set up, it is possible for FMOD switch to control the dual rates of elevator, aileron and rudder, respectively. The setting range is covered from 0-125%. Under the help with exponential curve adjustment, it is possible to make both customized setting and automatic setting.

Setting method

Press ENT to enter main menu. Press UP or DN to move navigation mark to desired item Function Menu. Press ENT to enter Function menu, press UP or DN to choose Dual rate and Exponential, Press ENT to enter D/R and Exponential interface.

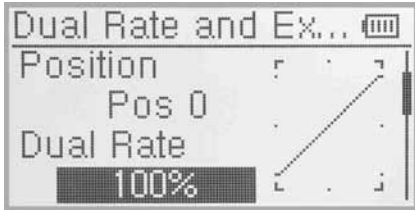


(1) Channel selection

Press UP or DN to move navigation mark of Channel, Press R or L to set up channels containing Elevator, Aileron and Rudder. Choose the desired channel for setting.

(2) Position selection

Press UP or DN to move navigation mark to desired item Position. In the manual mode, the function of Dual rate and Exponential will be executed by the corresponding FMODE switch among Pos0 and Pos1. Take the item Elevator at channel as an example, It's possible to shift between Pos0 and Pos 1 via pushing or pulling the FMODE switch.



(3) Dual rate adjustment

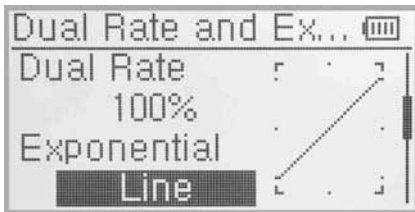
Press UP or DN to move the navigation mark to desired item Dual Rate. It's possible to change the dual rate value of Position via pressing R or L and the corresponding value curve in the right top of interface will be changed accordingly. The factory default is 100%.

(4) Exponential

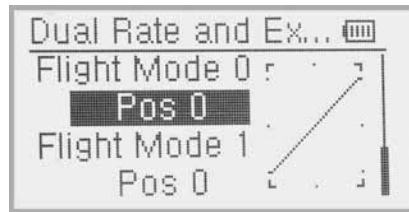
Press UP or DN to select Exponential item of navigation mark. It's possible to change Dual Rate and Exponential value in Pos when pressing R or L to change the value. There are  $\pm 100\%$  and Line three adjustment. At the same time, the corresponding curve will be changed and shown at the right graph.

(5) Flight Mode 0

Press DN to move the navigation mark to Flight Mode 0, press R or L to choose Pos0 and Pos1.



(4) Exponential



(5) Flight Mode 0

(6) Flight Mode 1: Refer to "(5) Flight Mode 0"

Press EXT to exit after finishing the setting.

**3.5 Throttle Hold**

If this function is set, the switch will be executed by hold switch. The setting value of throttle hold is ranged from -20.0-50.0%, the default setting is Inhibit.

Press ENT to enter main menu, Press UP or DN to move navigation mark to select Function menu. Press ENT to enter Function Menu. Press UP or DN to select Throttle Hold, Press ENT to enter Throttle Hold interface, as below illustration:



Press R or L to activate Throttle Hold function, and expansion list will be shown as Throttle hold status, throttle hold position and Throttle hold switch.

(1) There are two items under Throttle Hold Status: Active and Inhibit. The factory default setting is Inhibit.

(2) Throttle Hold position

In the Throttle Hold interface, press UP or DN to make the Navigation mark choose "Throttle Hold Position" setting options. Press R or L to change data, the minimum value is -20.0%; the maximum value is +50.0%.



(3) Throttle Switch setting

It's invalid for setting, the factory default is HOLD switch which will be shown in the status item. When the Throttle Hold switch is ON, data under the Throttle Hold can not be amended until Throttle Hold switch to be OFF, and the hold status is changed.

Press EXT to exit after setting up finished.

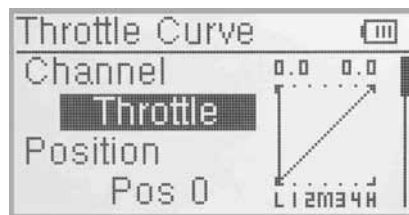
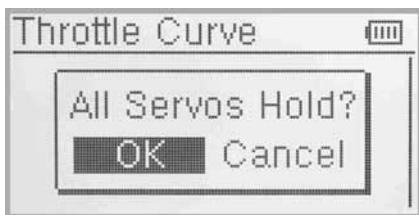


3.6 Throttle Curve

Throttle Curve are adjusted through 7 points.

Setting method:

Press ENT into interface to enter Main Menu, then press UP or DN to select "Function Menu" and press ENT to enter. Press UP or DN to select "Throttle Curve" and press ENT to enter setting interface. Please see below picture. A question "All Servos hold?" will pop up after enter "Throttle Curve" interface, press OK for all the servos locked at the current status, press Cancel for all the servos unlocked.



(1) Channel setting

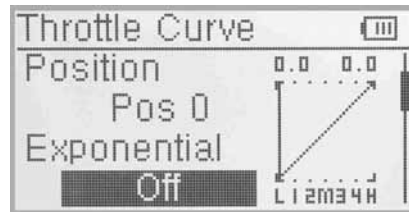
The default setting is Throttle Channel, and can not reset.

(2) Position selection

Press UP or DN in the "Throttle Curve" setting interface to select "Position", press R or L to select the item you want to set in the list with Pos 0 and Pos 1.

(3) Exponential setting

Press UP or DN in the "Throttle Curve" setting interface to select "Exponential" setting, Press R or L to set "OFF" or "ON". The throttle curve will being changed smoothly if select ON. Select OFF if not need then the throttle curve will be shown as a line.

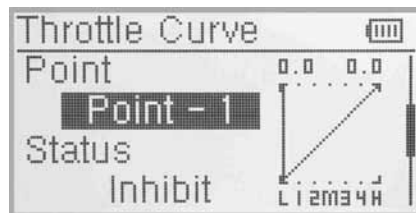
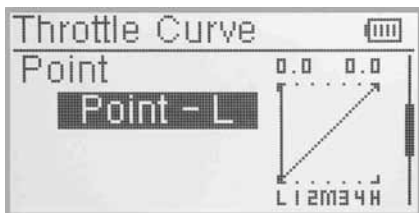


(4) Curve setting

Including "Point" and "Output".

(4.1) Point setting

Press UP or DN in Throttle Curve interface to select Points setting. Press L to expand a list including seven points: "Point-L", "Point-1", "Point-2", "Point-M", "Point-3", "Point-4" and "Point-H". Press R or L to select the point you want to adjust.

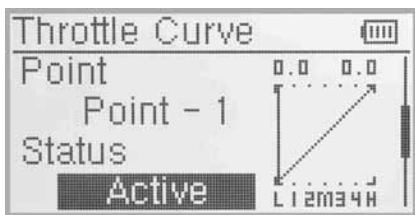


(4.2) Status setting

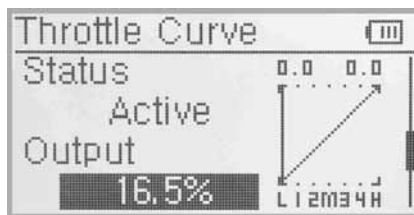
After above setup, press UP or DN to select Status setting, press R or L to set Inhibit and Active. Select Inhibit if for keeping the current value (the default setting is Inhibit). Select Active for changing the above points' value.

(4.3) Output setting

There is a expand item “Output” after select Status Active, press UP or DN to select Output setting, press R or L to decrease or increase, respectively, the output value. The adjustable range is from 0.0% to 100.0%, The curve graph in right will be change accordingly.



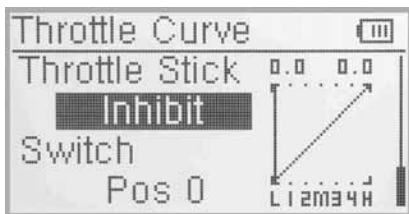
(4.2) Status setting



(4.3) Output setting

(4.4) Throttle setting

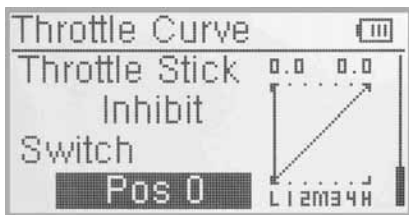
The switch between Pos 0 and Pos 1 can be freely realized through throttle stick after the below amount has been set up. The below set amount is the position of throttle stick as well as the switch point.



Throttle setting: Press UP or DN to select Throttle setting, Press L to decrease the amount with a lower limit of 0.0% or Inhibit, Press R to increase the amount with an upper limit of 100.0%.

(4.5) Switch Selection

When the item Throttle Stick is set in Inhibit, it is possible to switch between Pos 0 and Pos 1 by Switch. Press UP or DN to select “Switch” . Press ENT to enter into Switch selection interface, press UP or DN to choose desired item. Press ENT, the desired item whose left side will be changed into “1” from “0”. If two or more items are selected, the item should be chosen, whose left side should be changed into “1” from “0”. Press EXT after finished it.

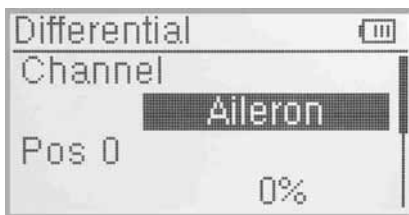


3.7 Differential

If want to use this function, Flaperon or Delta should be previously selected in Wing Type of Model Menu. Refer to “2.11 Wing Type”.

(1) Aileron differential setting

Press ENT to enter into Main menu; press UP or DN to choose Function menu. Press ENT to enter into Function menu; press UP or DN to choose Differential, press ENT to enter interface of Differential, illustration as below.



Mounting servos in left and right ailerons are a must if using this function. The following interface will be shown after Flaperon or DELTA selected in Wing Type. Refer to “2.11 Wing Type”.