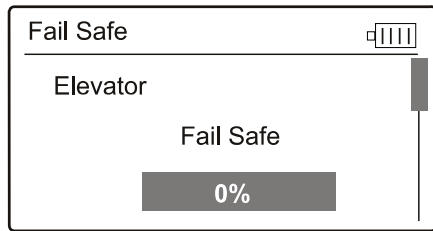


Press UP or DN to select Elevator on the Fail Safe interface, then press R or L to change the status of Servo Hold into Fail Safe(If you want to keep Servo hold status, there is no need to re-set). There is a expanded sub-item blow. Press UP or DN to select 0%, then press R or L to increase or decrease, respectively, the position amount which centers on the neutral point of servo. The available value is 125%, respectively. 0% is the neutral point of servo.



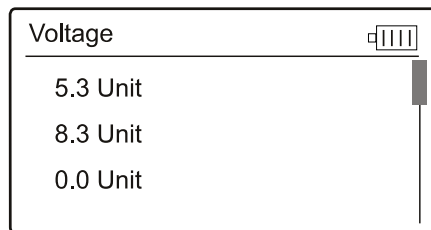
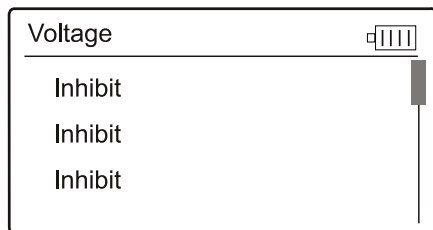
The setting methods for other channels are same as above.  
Press EXT to exit after finished.

**Note:** checking whether all the actions when fail safe happened are correct, is a must after the setting is finished. It is dangerous to use full throttle, especially after fail safe taken place.

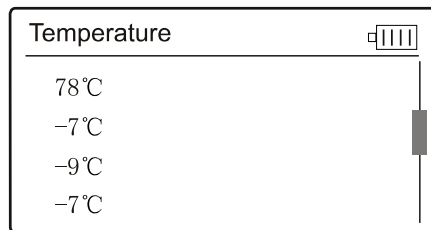
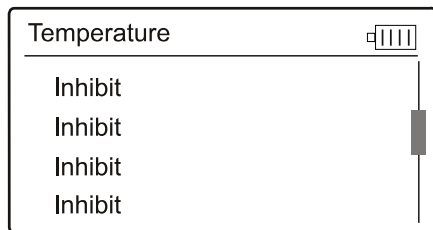
### 3.17 Sensor View

Setting method:Press ENT to enter the Main Menu and press UP or DN to move the navigational mark to select Function Menu.Then press ENT to enter the Function Menu and press UP or DN to select Sensor View, then press ENT to enter the Sensor View interface, like below pictures. If all the sensors disconnect, telemetry signal lost, there will be inhibits shown on the view. If all work normal, all the measured data will be shown.

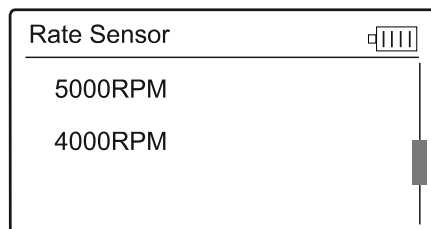
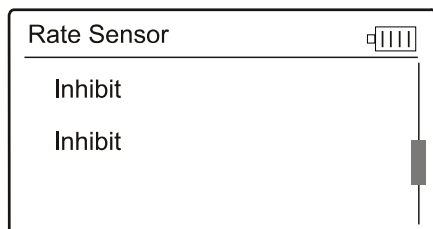
(1) Voltage:Show 3 different measured voltage value;



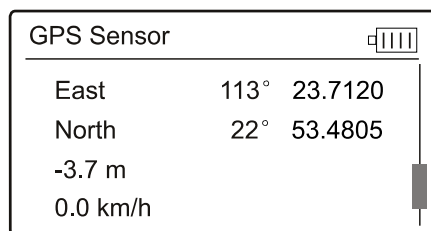
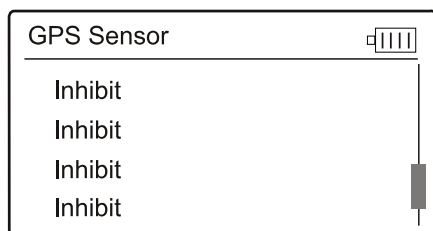
(2) Temperature: Show 4 different measured temperature value;



(3) Rate Sensor:Show 2 different measured RPM value;



(4) GPS Sensor:Press UP or DN to turn to GPS function, show located date, time, longitude, latitude, altitude and speed;



### 3.18 Trainer

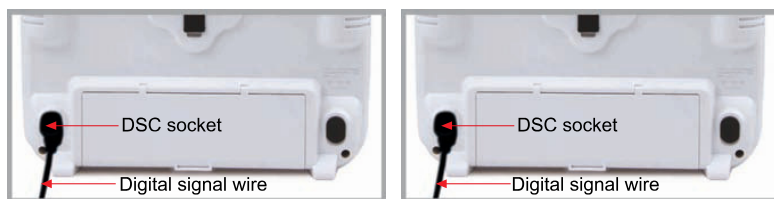
Two DEVO 12E transmitters working together can execute the training function to meet the requirements for the beginner. The setting method is shown as below:

#### (1) Data copy

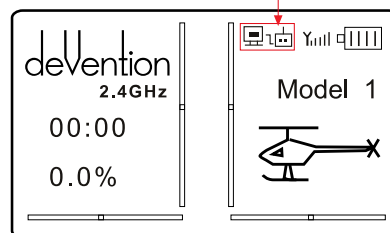
First, use the wireless copy function between two DEVO 12E to copy the main transmitter's model data to the trainee's transmitter, this promise the model data between two transmitters is same. Refer the copy method to the second part of helicopter "2.4 model wireless copy" and do the following steps:

#### (2) Linkage

Insert the signal wire from the trainer's transmitter into the DSC socket of the trainee's transmitter. Turn on the transmitter and a linkage icon will be shown on the boot screen.

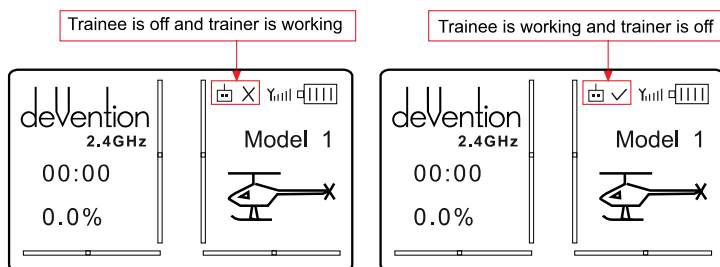


Linkage icon at trainee's DEVO 12E



#### linkage icon

Turn on the power of the trainer's radio. Find out the trainee's model data, and then let the trainer's Radio bind with the aircraft model and fly it normally. Then turn off the power. Insert the other end of the digital signal wire into the trainer's DEVO 12E, and then turn on its power. A linkage icon will be shown as below:



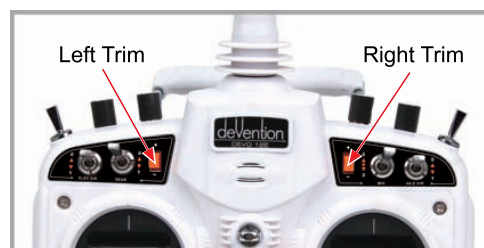
#### Trainer icon

Training status display: when the trainer's icon becomes into "X", the trainee stops flying and the trainer is working; when the trainer's icon turns into "✓", the trainee is flying and the trainer is in leisure.

#### (3) Usage method

The training switch can be freely switchable between Left trim and Right trim. The default setting is Right trim. See the right illustration:

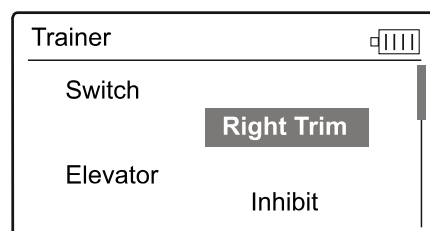
During flight, if the trainer pushes Right Trim once, the linkage icon will be shown as "✓" that means the control right is moved to the trainee from Trainer. If trainer pushes Right Trim once again, the linkage icon will be shown as "X" that means the trainer takes back the control right from the trainee.



#### (4) Setting for training function channels

Trainee is available to get full or part of flight control power to the aircraft model via setting the training function channel in the trainer's radio. Below is the setting method:

Press the ENT to enter Main Menu, and then press UP or DN to move the navigational mark to select Function Menu. Then press ENT to enter the Function Menu and press UP or DN to select "Trainer", then press ENT to enter the Trainer interface. The available channels are shown below, and the current status of trainer switch is also shown there.



Trainer switch selection: Press UP or DN to select the switch option; press R or L to select the switch which you want. It includes right and left trim. The default setting is Right trim.

Channel selection: Press UP or DN to select the channel option; Press R or L to select the channel(s) which you want to grant to trainee. The channel(s) you have selected will be activated as "Active". The channels which are not granted to trainee will be kept inhibited. The default setting is "Inhibit".

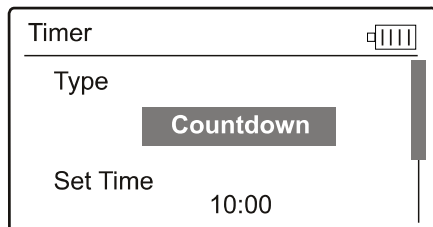
Press EXT to exit.

### 3.19 Timer

There are two timers which can be set as stopwatch and countdown, respectively. Each timer can be operated by switch or by shortcut.

Setting method:

Press ENT to enter Main Menu, and then press UP or DN to move the navigational mark to select Function Menu. Then press ENT to enter the Function Menu and press UP or DN to select "Timer", then press ENT to enter Timer interface. The timing range of stopwatch is from 0 to 59:59 (59 minutes 59 seconds). The default setting is stopwatch.



(1) Countdown setting

If you need countdown time manner, press R or L to select the countdown. There is an expand sub-menu set time item. Press UP or DN to move the navigational mark to select the option of Setting time item. Press R or L to set the countdown time. The settable countdown time range is from 00:05 to 59:55.

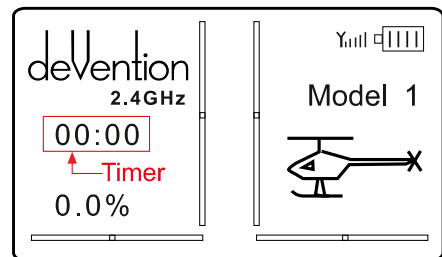
#### (2) Switch selection

Press UP or DN to move the navigational mark to Switch. There are Inhibit and available switch options, available switch can be selected by press L or R. It includes FMOD1,2, FMOD2, MIX1,2, MIX2, ELEV D/R, AILE D/R, RUDD D/R, GEAR SW, SPS0 SW, SPS1 SW, SPS2 SW and SPS3 SW. We can select the desired item except these items of SPS0 SW, SPS1 SW, SPS2, and SPS3 which should be previously set at Stick Position Switch at Model Menu (refer to "2.8 Stick Position Switch").

Press EXT to exit after finished.

#### (3) Usage of timer

Press UP or DN in main panel. It's possible to start Timers by pressing UP key for one time, and to pause it by pressing it the second time. Press DN to clear timer. It's ok to control time by Switch when time setting is finished on switch. Timer will be shown in main interface, as right illustration:

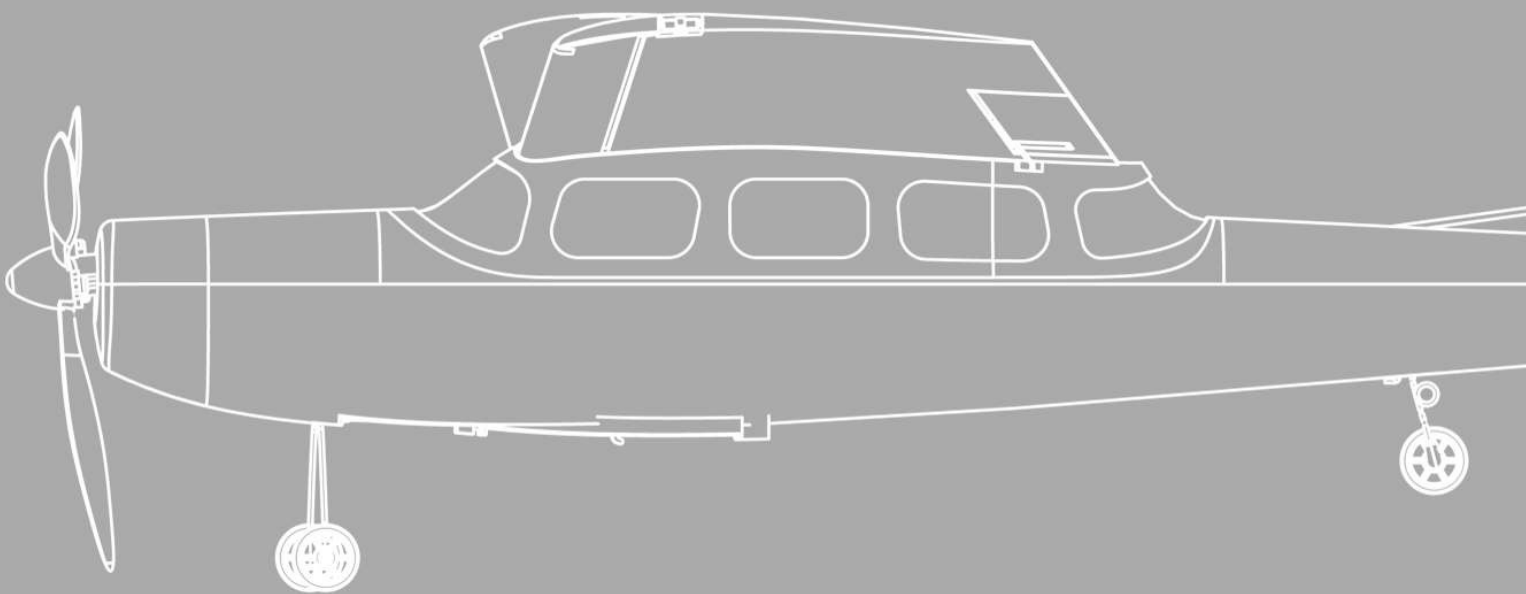


# devention

DEVO 12E

## Part three Airplane

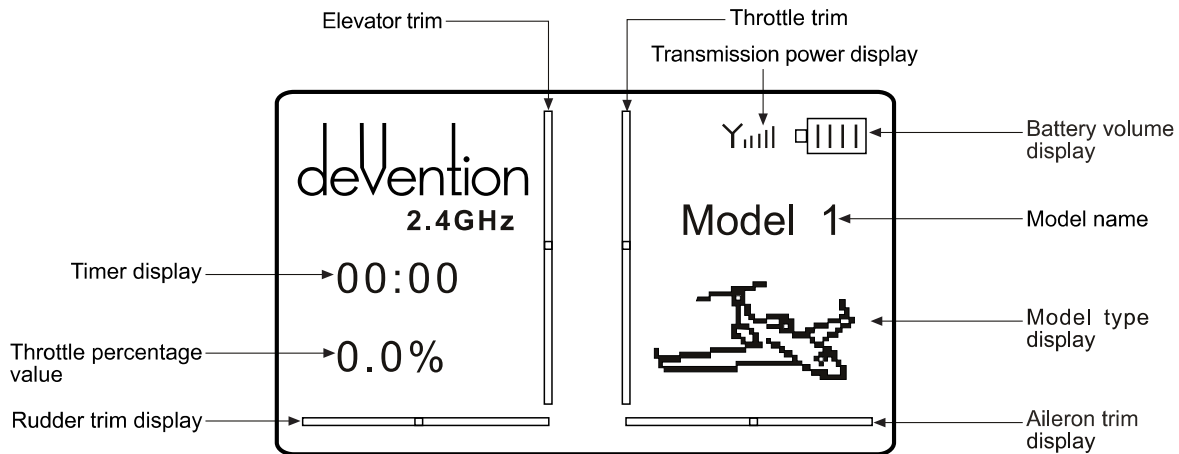
All the functional settings, which are relative to the operation system of DEVO 12E itself, are fully integrated in System Menu. They include Language, Display, Buzzer, vibrator, Stick Mode, Stick Direction, Stick calibration, Battery, and About.



## 1.0 System Menu

All the functional settings, which are relative to the operation system of DEVO 12E itself, are fully integrated in System Menu. They include Language, Display, Buzzer, vibrator, Stick Mode, Stick Direction, Stick calibration, Battery, and About.

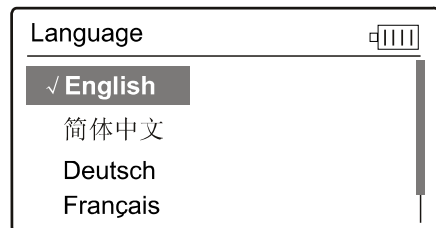
Below is the boot screen of Airplane:



### 1.1 Language setting

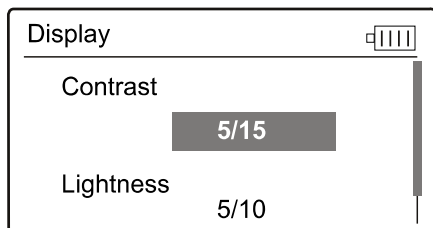
Press ENT to the Main Menu, press UP or DN to select System Menu, then press ENT to System Menu.

Press UP or DN to select "Language" and press ENT to the Language setting interface. Press UP or DN to select the language that you want. A "✓" will be shown on the screen after selected. Press EXT to exit.



### 1.2 Display

Press ENT to the Main Menu, press UP or DN to select System Menu, then press ENT to System Menu. Press UP or DN to select "Display" and press ENT to the Display setting interface.



Three items are available to be set. Below are the setting methods for them:

(1) Backlight contrast: the backlight contrast is adjustable by pushing UP or DN to move the navigational mark to the digits after Contrast. Press R key to increase the backlight contrast, while press L to decrease it.

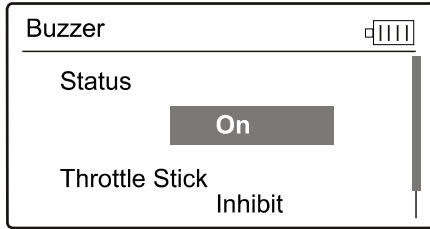
(2) Backlight lightness: the backlight lightness is adjustable by pressing UP or DN to move the navigational mark the digits after Lightness. The power consumption will be increased if the backlight lightness is too bright and the battery cruise duration will be shortened. Press R or L to increase or decrease the lightness. When the value is one means turn off the backlight.

(3) Backlight time out: it is possible to set the duration which LCD stays at highlight in the form of "Always on" or any period from 5 to 60 seconds with an interval of 5 seconds. Press UP or DN to move the navigational mark to select the digits after Timeout. Press L to short the time of backlight duration or keep it in the form of "Always on" while push R or prolong the time. The maximum is 60s.

Press EXT to exit.

### 1.3 Buzzer warning

Press ENT to the Main Menu, press UP or DN to select System Menu, then press ENT to System Menu. Press UP or DN to select "Buzzer" and press ENT to the Buzzer setting interface.



(1) Status: There are On and off two status on the Buzzer interface. Pressing UP or DN to move the navigational mark to the status option. Pressing R or L to change the ON or OFF status. It includes Throttle stick, knobs and Tones items under the status is ON.

(2) Throttle stick buzzer: Press UP or DN to move the navigational mark to Thro Stick item then press R or L to change the status from inhibit to Active. When Buzzer is at the status of On, if Throttle Stick is set as "Active", a relative musical scale will make response when moving the throttle stick. You can judge the position of the throttle stick according to the different musical scales. Also, it can be set as Inhibit.

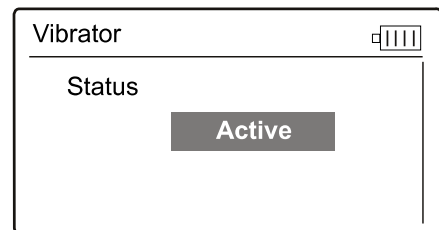
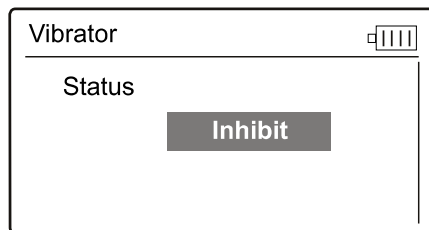
(3) Knobs midpoint Buzzer: When Buzzer is at the status of On, if Knobs is set as "Active", there is buzzer sound when you turn the AUX4 and AUX5 to the midpoint. If you don't need the buzzer sound, please change the status to Inhibit.

(4) Buzzer tone: the tone is composed of 10 grades. You can choose the favorite one according to your interests. Press UP or DN to move the navigational mark to Tone item and press R or L to make a listening test. Press EXT to exit.

### 1.4 Vibrator

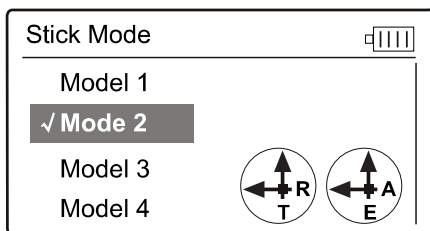
The vibrator used as an alarm function to remind the users.

Press ENT to the Main Menu, press UP or DN to select System Menu. And then press ENT to System Menu, press UP or DN to select Vibrator. Press ENT to get Vibrator setting interface. There are two status as Inhibit and Active. Press R or L to select Active if need. Press EXT to exit after finished.

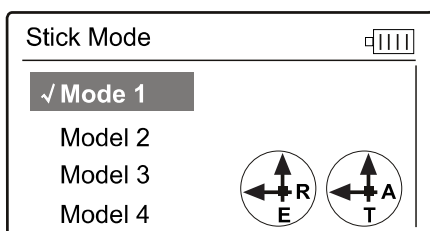
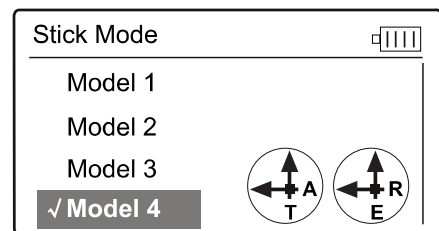


### 1.5 Stick Mode

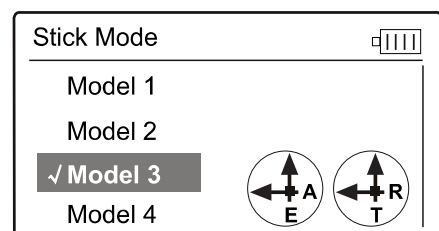
Press ENT to Main Menu, press UP or DN to select System Menu, and then press ENT to the System Menu, press UP or DN to select Stick Mode, and press ENT to stick Mode setting interface.



MODE 2 and MODE 4 are listed in left-hand throttle.



MODE 1 and MODE3 are listed in right-hand throttle.

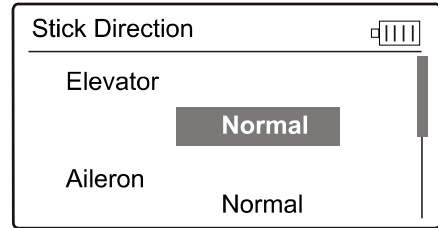


Select the stick mode according to the throttle mode showing on the screen. DEVO 12E offers 4 stick modes, please refer to "8.0 Switches exchange between left-hand and right-hand throttles. Press EXT to exit after finished.

### 1.6 Stick Direction

Press ENT to get Main Menu, press UP or DN to select System Menu, and then press ENT to the System Menu, press UP or DN to select Stick Direction, and press ENT to get stick direction setting interface.

Stick Direction: There are four items available as Elevator, Aileron, Throttle and Rudder. Press UP or DN to select the stick which will change direction, and press R or L to change the direction. The factory setting is Normal.



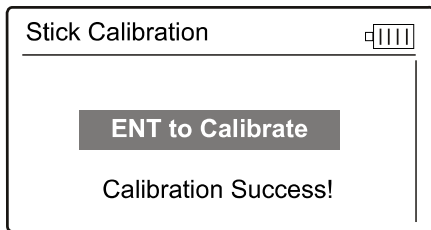
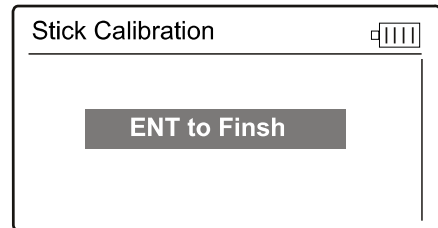
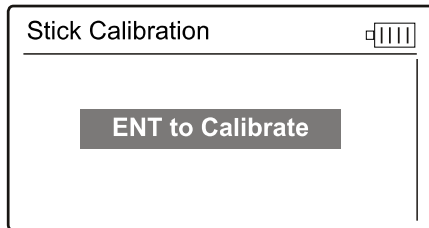
### 1.7 Stick Calibration

It is a function to re-calibration when stick unusual.

Calibration method:

Press "ENT" to the Main Menu, press UP or DN to select System Menu, then press ENT to System Menu.

Press UP or DN to select Stick Calibration and press ENT to the Stick Calibration setting interface. Press ENT to enter Calibration, and see the left illustration:



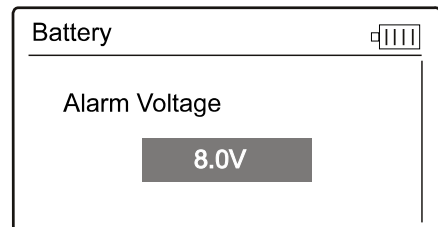
Clockwise or counter clockwise mechanically move the right stick and left stick from minimum levels to maximum levels several times, and then return the stick to the neutral positions, respectively. It will show the calibration is successful after you press ENT to confirm.

Press EXT to exit after finished.

### 1.8 Battery

Battery voltage can set up the warning value for radio battery in lower voltage.

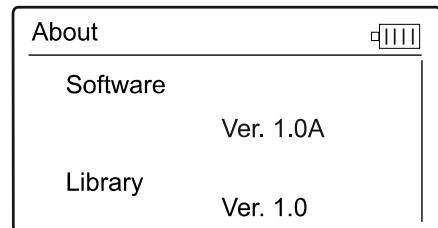
Press ENT to the Main Menu, press UP or DN to select System Menu, then press ENT to System Menu. Press UP or DN to select "Battery" and press ENT to the Battery setting interface. Warning voltage value can be changeable by R or L button.



### 1.9 About

Press "ENT" to the Main Menu, press UP or DN to select System Menu, then press ENT to System Menu. Press UP or DN to select About and press ENT to the About setting interface.

Press EXT to exit after finished.



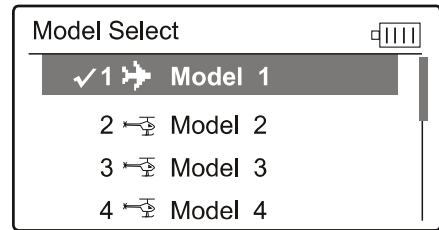
## 2.0 Model Menu

Model Menu manages all the model data saved in DEVO 12E. It includes Model Select, Model Name, Model Copy, Model Transmit, Model Receive, Model Reset, Type Select, Trim System, Stick Position Switch, Device Select, Device Output, Wing Type, Power Amplifier, Fixed ID and Sensor setting.

### 2.1 Model Select

Press ENT to enter Main Menu and press UP or DN to make Model Menu is selected. Press ENT to get the Model Menu and press UP or DN to select Model select, press ENT to enter the Model Select setting interface.

Press UP or DN to select the model you desired, press ENT to confirm and marks "✓" in the front of selected one. Total 30 models are optional. Press EXT to exit after finished.

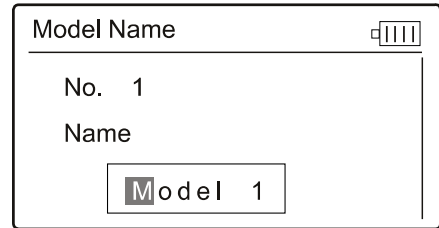


### 2.2 Model Name

In the menu of model name, you can make a desired name for your model for long term storage. Its data can be directly withdrawn in next flights. Repeat the step "2.1 Model Select" to choose the model you want to name or save, press EXT to back to the interface.

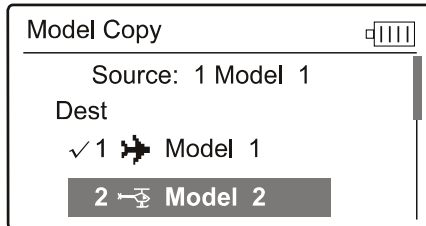
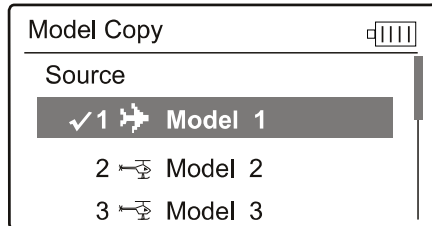
Press "ENT" to enter Main Menu, press UP or DN to select "MODEL Menu", then Press "ENT" to enter Model Menu; Press UP or DN to select "Model NAME" and then press "ENT" button to enter the "Model Name" setting interface.

Press UP or DN to select the character and figure which are needed to be changed, press R or L button to change the character and figure, and press UP or DN to set next one. Press EXT to exit after finished.



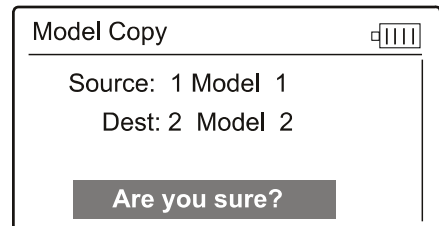
### 2.3 Model Copy

Press ENT to enter "Main Menu" and press UP or DN to make "Model Menu" is selected. Press ENT to enter "Model Menu" and press UP or DN to select "Model Copy", press ENT to the "Model Copy" setting interface.



Press UP or DN to choose the model you want to be copied as source model and press ENT to confirm, The serial No. and model name of Source Model will be shown as left Illustration.

Then press UP or DN to locate the source model, press ENT to confirm. Then an enquiry "Are you sure?" is popped up as below Illustration. Press ENT to copy, or press EXT to exit.

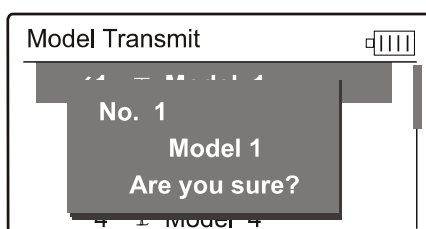
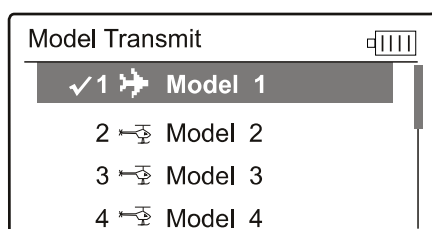


### 2.4 Model wireless copy

The model data between two DEVO 12E equipments can be wirelessly copied via Model Transmit and Model Receive in Model Menu.

#### (1) Model transmission

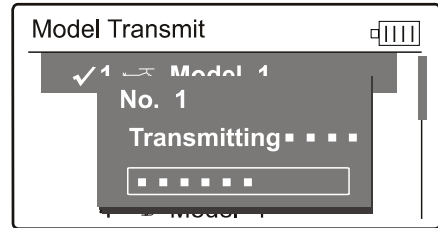
Press ENT to enter "Main Menu" and press UP or DN to select "Model Menu". Press ENT to get "Model Menu" and press UP or DN to select "Model transmission", continue to press ENT to enter "Model Transmit" setting interface.



Press UP or DN to choose the source model which will be transmitted, and press ENT to confirm, an enquiry information "Are you sure?" will be shown as left Illustration.

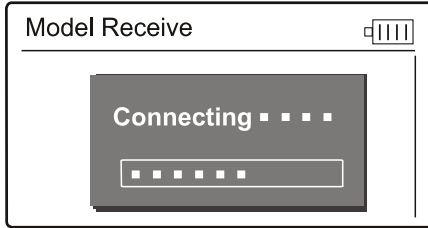
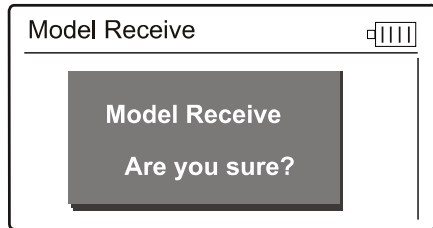


Press ENT to transmit, “Transmitting .....” appears in the interface. Or press EXT to exit. Press EXT to exit after another DEVO 12E received the data.



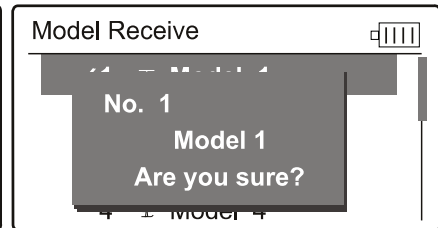
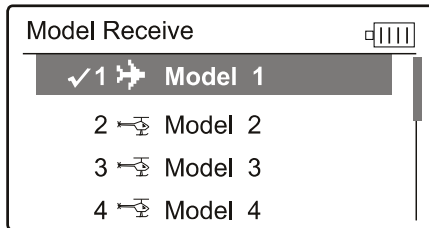
(2) Model receiving

Press ENT to enter Main Menu and press UP or DN to select Model Menu. Press ENT to enter Model Menu and press UP or DN to select Model Receiving, continue to press ENT to enter Model Receive setting interface. An enquiry information “Are you sure?” will be shown as below Illustration.



Press ENT to receive, “Connecting.....” and “Receiving .....” will be shown in series in the interface. The information of “Received” with the model name will be shown after receiving is finished. Or press EXT to exit.

Press UP or DN to choose the save position, an enquiry information “Are you sure?” is shown after press ENT. Press ENT to save or press EXT to exit.

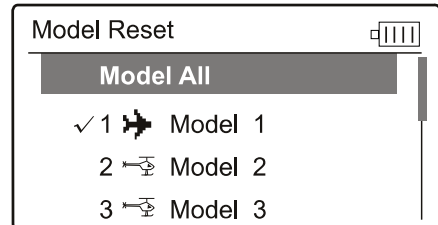


2.5 Model reset

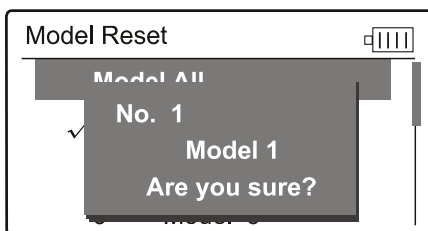
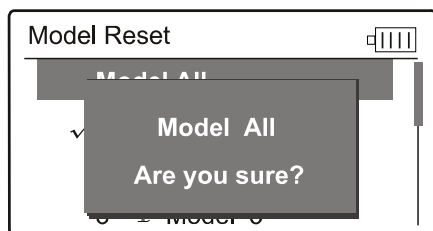
All the model data can be restored to factory settings via Model Reset.

Press ENT to enter Main Menu and press UP or DN to select Model Menu. Press ENT to enter Model Menu and press UP or DN to select Model Reset, press ENT to enter Model Reset setting interface.

It is possible to store up to 30 models data in the model list of DEVO-12E equipment. There are two methods to reset the model data: batch reset and single reset.



Batch reset: press UP or DN to select All Models, an enquiry information “are you sure?” will be appears in the interface. Press ENT to reset all models, or press EXT to exit.



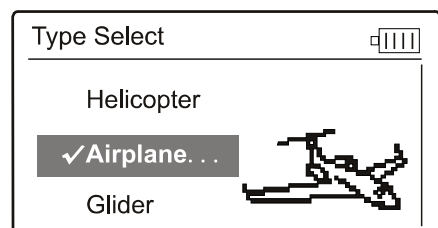
Single reset: Press UP or DN to choose the model you want to restore, “Are you sure?” will appear after press ENT. Press ENT to reset or press EXT to exit.

2.6 Type Select

This device offers three model types menu. They are Helicopter, Airplane and Glider respectively.

Press ENT to enter Main Menu and press UP or DN to select Model Menu. Press ENT to enter and press UP or DN to select Type Select and press ENT to enter setting interface.

Press “ENT” button to get Helicopter, Airplane and Glider selections and press UP or DN to select and press ENT to confirm, then press EXT to exit.

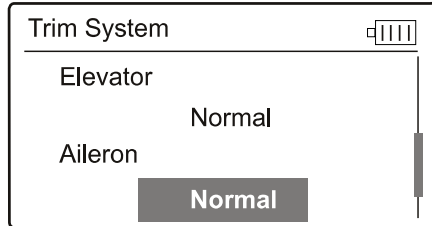
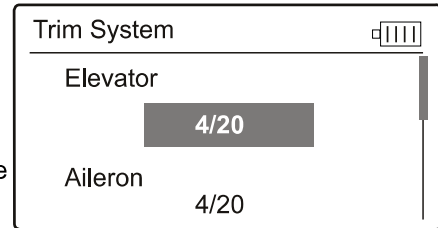


### 2.7 Trim System

Trim System is able to finely tune the following six items, respectively: Elevator, Aileron, Rudder, Throttle, Left Trim and Right Trim. The trim range is divided into 20 grades (factory default is set at 4). It is convenient to subtly modify the pitch by adjusting the trim range.

Press ENT to enter Main Menu and press UP or DN to select Model Menu. Press ENT to enter and press UP or DN to select Trim System, press ENT to enter setting interface.

Press UP or DN to select the trim which will set, press R to increase the trim value and press L to decrease.



For elevator, aileron, and rudder, there are two more options: Normal and Limited, press R or L you can change the setup. "Normal" means the trim is always working although the corresponding stick stays anywhere. "Limited" means the trim is out of working when the corresponding stick is at maximum position.

Press EXT to exit after finished.

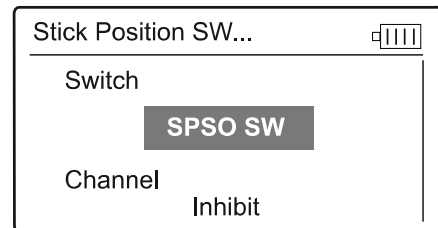
### 2.8 Stick Position Switch

According to the following setting, the switch can be used as a switch. The turn-on or turn-off position at which stick stays can also be settable.

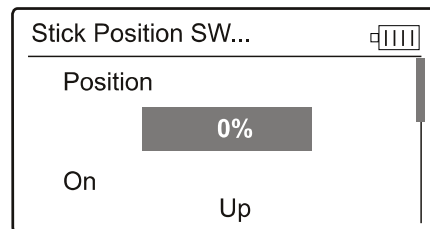
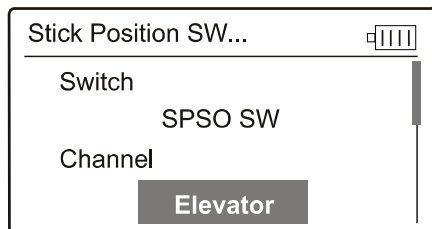
Method for setting:

Press the ENT to enter Main Menu and press UP or DN to select Model Menu. Press ENT to enter Model Menu and press UP or DN to select Stick Position Switch, press ENT to enter Stick Position Switch setting interface.

There are four options under the Stick position switch: SPS0, SPS1, SPS2, SPS3. Press R or L to choose the switch you want to define.

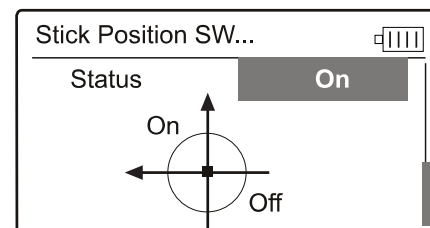
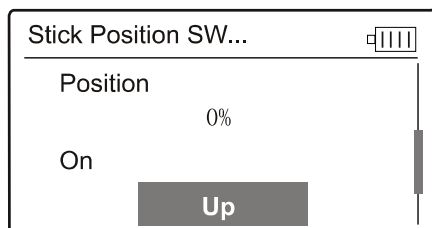


Press UP or DN to inhibit channel in navigation mark, and press R to expand the menu. The channel includes four items: Elevator, Aileron, Throttle and Rudder. The factory default is Inhibit. Take Elevator for example.



Press R or L to choose the Elevator as stick, then Press UP or DN to move navigation mark to value of position. It's possible to adjust the stick position via pressing R or L.

Press UP or DN to navigate the On setting, press R or L to change the direction of the channel stick.



Press UP or DN to navigate the Status, which can check the sketch map of the stick On/Off direction. Check if it was set correctly.

After finished the setting, press EXT to exit.

### 2.9 Device select

This setting can help you configure various functional switches, or adjust levers. It includes Flight Main Switch, Flight Extra Switch, Flight Mode Trim, Hold Switch, Flap Switch, Flap Trim.