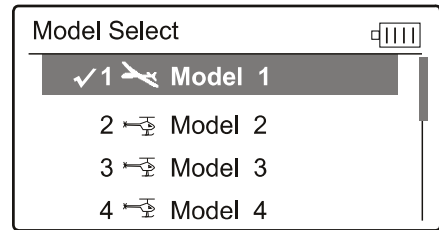


2.1 Model Select

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.

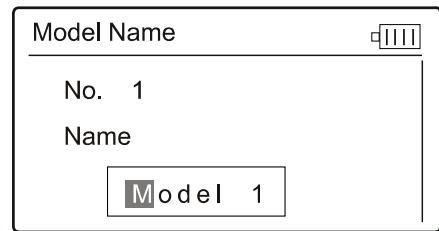


2.2 Model Name

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 Its data can be directly withdrawn in next flights.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.

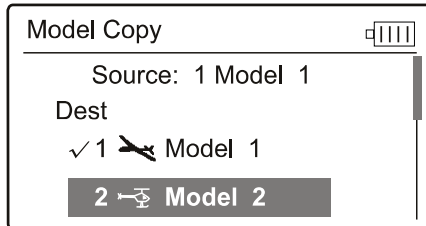
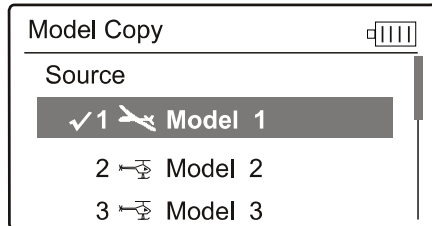
Press "ENT" to enter Main Menu, press UP or DN to select "MODEL Menu", then Press "ENT" to enter Model Menu; Press UP or DN to select "Model NAME" and then press "ENT" button to enter the "Model Name" setting interface.

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.



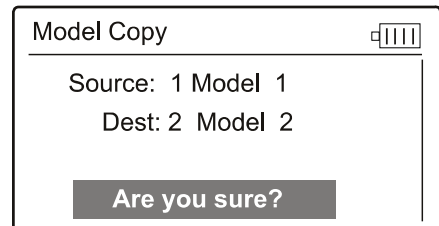
2.3 Model Copy

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 enquire "Are you sure?" is popped up as below Illustration. Press ENT to copy, or press EXT to exit.

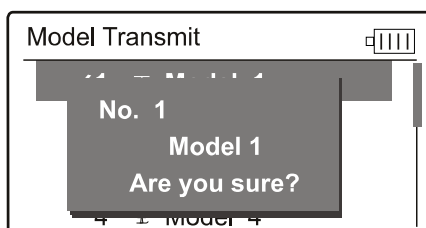
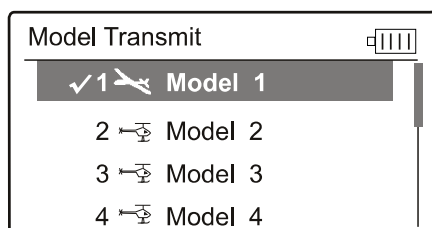


2.4 Model wireless copy

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

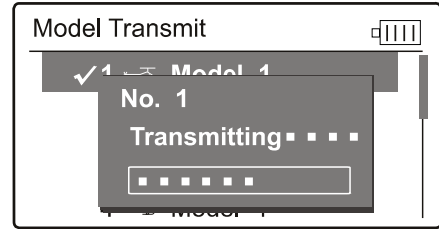
(1) Model transmission

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.



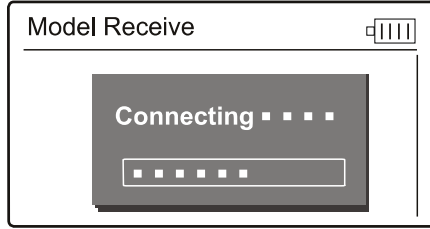
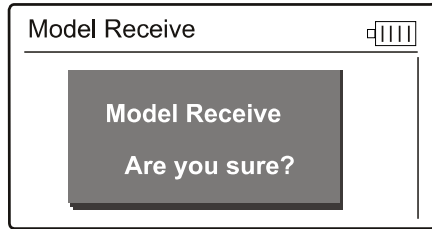
Press UP or DN to choose the source model which will be transmitted, and press ENT to confirm, an enquiry information "Are you sure?" will be shown as left Illustration.

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.



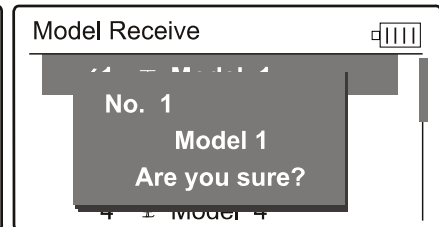
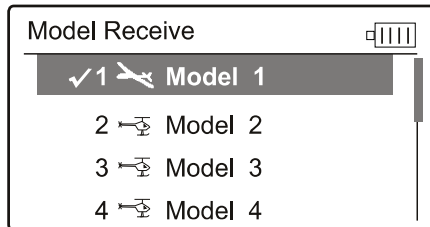
(2) Model receiving

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.

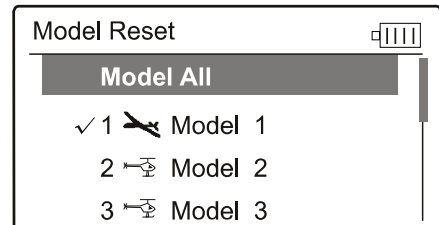


2.5 Model reset

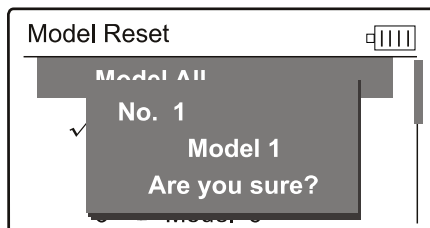
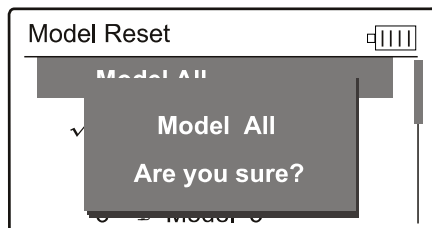
All the model data can be restored to factory settings via Model Reset.

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.



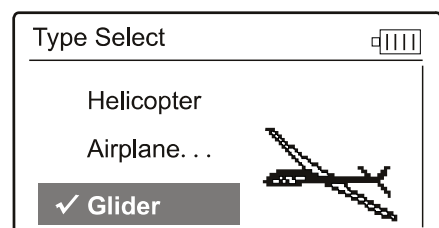
Single reset: Press UP or DN to choose the model you want to restore, "Are you sure?" will appear after press ENT. Press ENT to reset or press EXT to exit.

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.

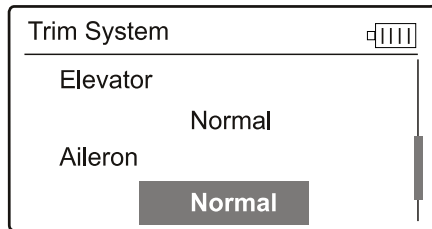
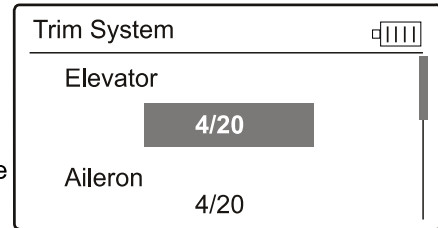


2.7 Trim System

Trim System is able to finely tune the following six items, respectively: Elevator, Aileron, Rudder, Spoiler, 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.

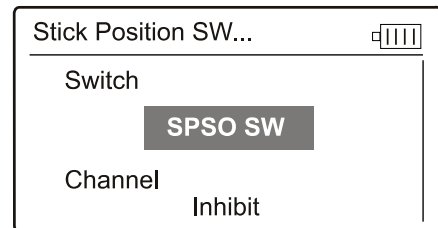
2.8 Stick Position Switch

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.

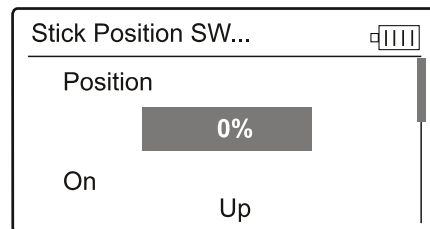
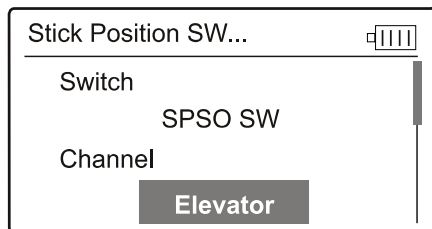
Method for setting:

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.

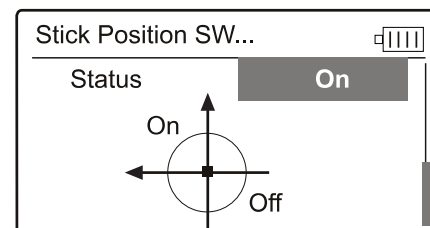
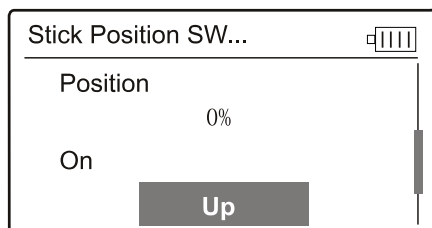


Press UP or DN to inhibit channel in navigation mark, and press R to expand the menu. The channel includes four items: Elevator, Aileron, Spoiler and Rudder. The factory default is Inhibit. Take Elevator for example.



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.

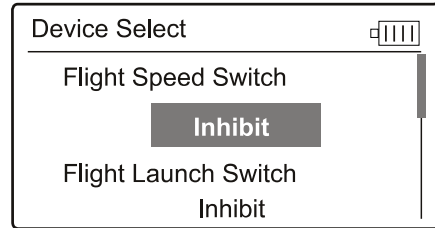
2.9 Device select

This setting can help you configure various functional switches, or adjust levers. It includes Flight Speed Switch, Flight Launch Switch, Aileron and Rudder Trim, Flap Trim, Flaperon Trim.

Press ENT to enter Main Menu, press UP or DN to move navigation mark to select Model menu. Press ENT to enter Model menu function. Press UP or DN to Device select Option. Press ENT to Device select Option interface.

(1) Flight Speed Switch:

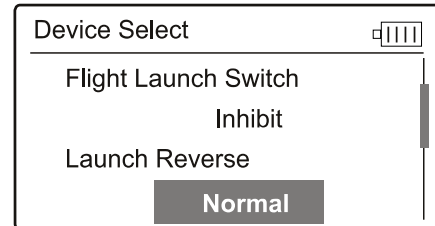
Press UP or DN to move navigation mark to Flight Speed Switch and press R or L to select the desired switch. The factory default setting is Inhibit.



(2) Flight Launch Switch:

Press UP or DN to move navigation mark to Flight Launch Switch and press R or L to select the desired switch. The factory default setting is Inhibit.

Launch Reverse: Press UP or DN to move navigational mark to "Launch Reverse" setting after you select the Flight Launch Switch, press R or L to Normal or Reverse. The factory default is Normal.

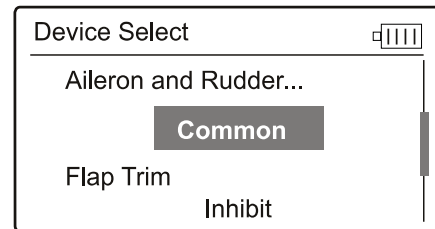


(3) Aileron and Rudder Trims

There are two options: Common and Flight Mode. In Common option, the adjustment parameter, of which the stick is corresponding to trim, puts an equal effect on all the flight modes.

In Flight Mode, the adjustment parameter, of which the stick is corresponding to trim, puts a respective effect on the corresponding flight mode. The factory default setting is Common.

Press UP or DN to move navigational mark to "Aileron and Rudder Trim" , press R or L to select Common or Flight Mode. The factory default is Common.



(4) Flap Trim: Refer to "(1) Flight Speed Switch".

(5) Flaperon Trim: Refer to "(1) Flight Speed Switch".

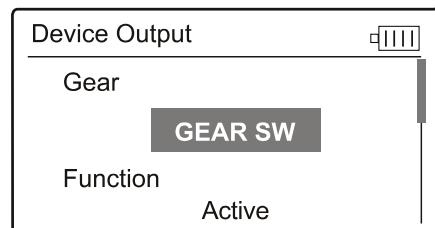
After finished the setting, press EXT to exit.

2.10 Device Output

Device output is composed of eight items. It can set up output switches and select the usage of levers, respectively. It can also Active, Inhibit or use other functions.

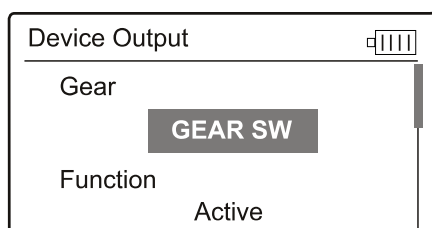
Press ENT to enter Main Menu, press UP or DN to move navigational mark to Model Menu. Press ENT to enter Model menu. Press UP or DN to select "Device Output" and press ENT to enter "Device Output" interface.

Below eight items can be adjusted: Motor, Flap, AUX2, AUX3, AXU4, AUX5, AUX6, and AUX7.



(1) Motor

Press UP or DN in Device output interface can change the "Motor" switch. It includes FMODE SW, MIX SW, ELEV D/R, AILE D/R, RUDD D/R, GEAR SW, SPSO SW, SPS1 SW, SPS2 SW, SPS3 SW, Left Trim, Right Trim, AUX4 KB, AUX5 KB, AUX6 KB, AUX7 KB, Spoiler Stick. Press R or L to select the setting switch, The default setting is GEAR SW.

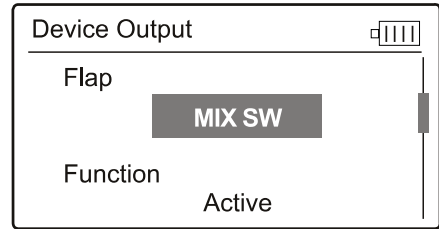


Press UP or DN to select Function Setting after you select the switch, Press R or L to select Inhibit, Active, Gyro. The default setting is Active. You can continue to set other items after finishing.

(2) Flap

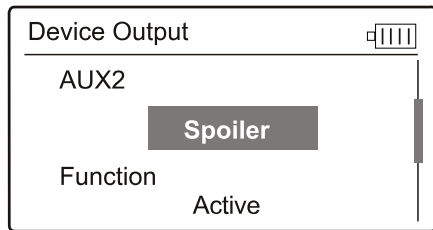
Press UP or DN to move navigational mark to Flap. Press R or L to expand the menu including FMOD SW, MIX SW, ELEVE D/R, AILE D/R, RUDD D/R, GEAR SW, SPSO SW, SPS 1SW, SPS2 SW, SPS3 SW, Left Trim, Right Trim, AUX4 KB, AUX5 KB, AUX6 KB, AUX7 KB, Spoiler. The default setting is MIX SW.

Function Setting: The default setting is Active.



(3) AUX 2

Press UP or DN to move navigational mark to AUX2. Press R or L to expand the menu including FMOD SW, MIX SW, ELEVE D/R, AILE D/R, RUDD D/R, GEAR SW, SPSO SW, SPS 1SW, SPS2 SW, SPS3 SW, Left Trim, Right Trim, AUX4 KB, AUX5 KB, AUX6 KB, AUX7 KB, Spoiler. The default setting is Spoiler.



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

(4) AUX3, AUX4, AUX5, AUX6, AUX7 settings please refers to the AUX2 settings. AUX3 default setting is RUDD D/R, AUX4 default setting is AUX4 KB; AUX5 default setting is AUX5 KB; AUX6 default setting is AUX6 KB; AUX7 default setting is AUX7 KB.

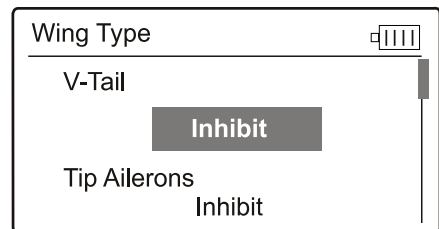
After finished the setting, press EXT to exit.

2.11 Wing Type

The Wing Type includes V-Tail, Tip Ailerons, and Dual Spoilers.

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.



(1) V-Tail setting

Press UP or DN to move navigation mark to "V-Tail", press R or L to select the options, it including two options of Inhibit and Active. The default setting is Inhibit.

(2) Tip Ailerons setting: The setting is same as the above.

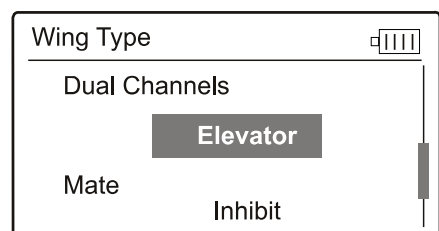
(3) Dual Spoilers setting: The setting is same as the above.

(4) Dual channels setting

It is possible to set Elevator, Rudder, and Flap in Dual channels, and is of two-channel output function. The AUX channel, which will be used as Dual channels setting at Device Output in Model Menu, should be previously set as Inhibit (Refer to "2.10 Device Output").

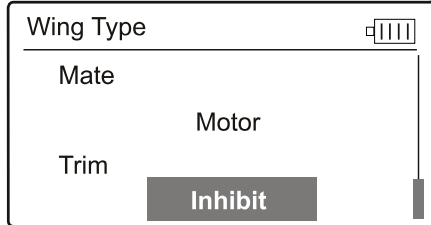
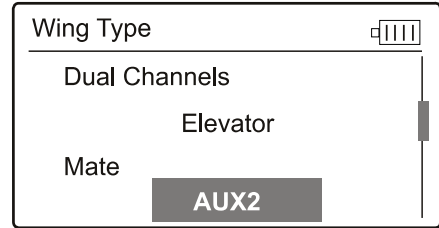
(4.1) Channel setting

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



(4.2) Mate setting:

Press UP or DN to select "Mate Channels" setting, press R or L to select the desired channel in the menu with Inhibit and the inhibited channels previously set in "Device Output".



(4.3) Trim Setting:

Press UP or DN to select "Trim Channels" setting, press R or L to select the item you want to choose as trim lever in the menu with Inhibit, Left trim, Right Trim, AUX4 KB, AUX5 KB, AUX6 KB, AUX7 KB.

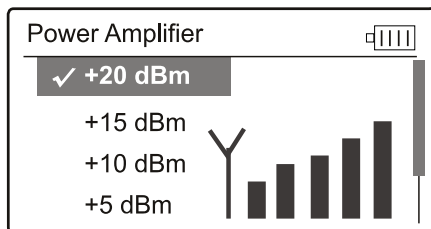
The setting of Rudder and Flap in the item Channel are same as above.

After the setting, press EXT to exit.

2.12 Power Amplifier

The transmission output power of DEVO 12E is adjustable. It is divided into six grades from small to big. The lower the transmission output power transmits, the shorter the radio range is, and the longer the stand-by time will be, the higher the transmission output power, the farer the radio range, and the shorter the stand-by time. Choose the appropriate transmission output power according to the actual situation.

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 select Power Amplifier and press ENT to enter Power Amplifier interface.



Press UP or DN to choose the desired output power value. Press ENT to confirm then the corresponding items will have "✓"mark in front of the items.

| Grade 6 | Grade 5 | Grade 4 | Grade 3 | Grade 2 | Grade 1 |
|---------|---------|---------|---------|---------|---------|
| 20dBm | 15dBm | 10dBm | 5dBm | 0dBm | -5dBm |

After the setting, press EXT to exit.

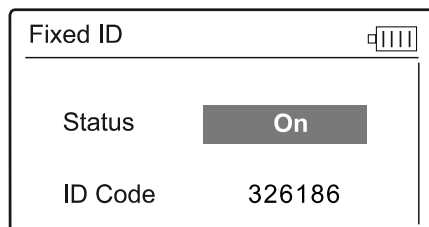
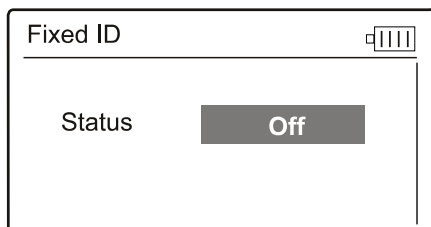
2.13 Fixed ID

This setting will bind DEVO 12E with its receiver in a unique corresponding relationship. It will greatly speed up the time of automatic binding when DEVO 12E power on.

(1) Setting for fixed ID

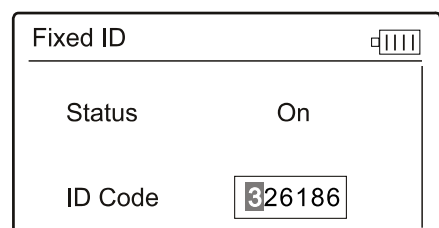
The setting for fixed ID should be under the status that automatic ID binding is successfully finished. Below is the setting method.

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

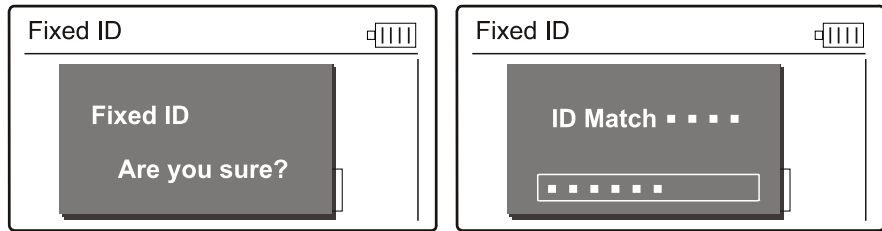


If you want to activate the fixed ID setting, press R or L to change the status from off to on. A series of random digits will be shown below after changing to on.

Press UP or DN to choose the ID code setting, press R or L to choose the words or number, press UP or DN moves to the next code setting. there are 6 words can be set to ID code.



Press ENT after the new ID has been set. 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

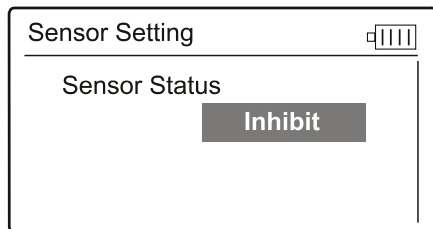
Insert the assorted BIND PLUG into the output terminal of BATT before the receiver power on, and then plug 5V DC power into other output terminal. The red light of receiver will flash slowly. This means the fixed ID code has been cancelled. Pull out bind plug. DEVO 12E also need to make relative cancellation 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 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.



2.14 Sensor setting

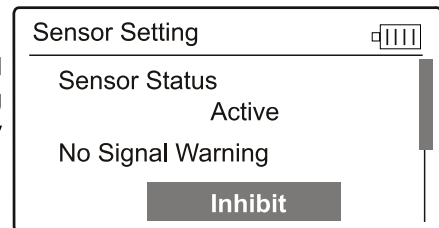
Setting method: press ENT enter to the Main Menu. Press UP or DN to select the Model Menu. Press ENT enter to Model Menu. Press UP or DN to select sensor press ENT enter to the sensor setting interface. See the Illustration.



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. Picture as right:

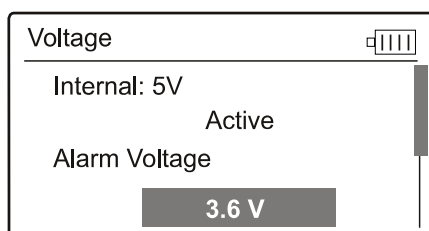
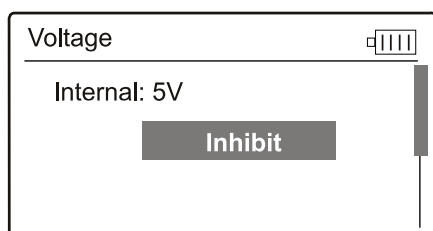


(2) Voltage setting

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

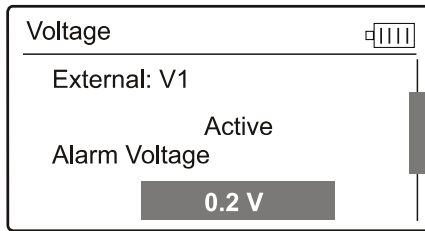
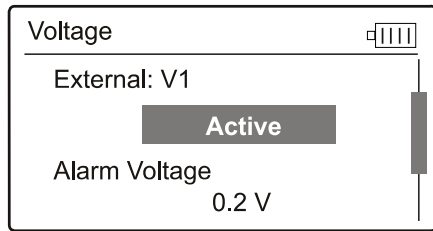
Voltage setting: press R or L to activate the 5V, the alarm interface will appear in the interface, please refer to the Illustration.



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.

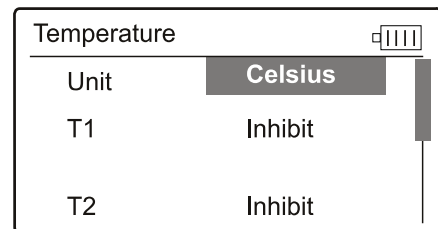
Press EXT back to sensor setting interface after you finished.

(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℃ 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.

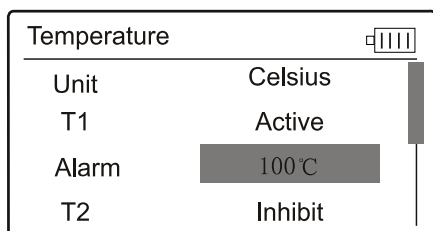


(3.1) Unit

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 Active 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.

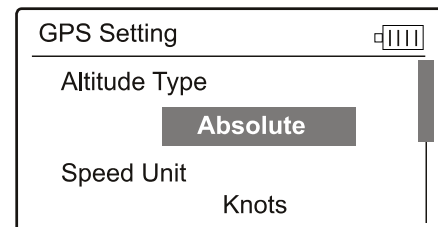
(3.3) T2, T3, T4 setting

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.

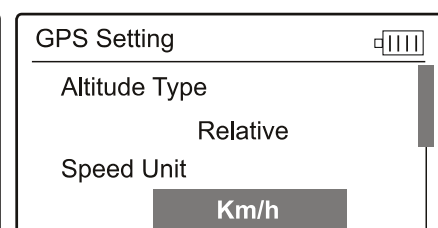
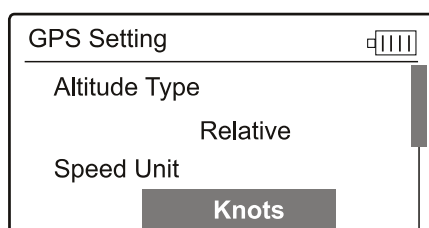


(4.1) Altitude Type

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

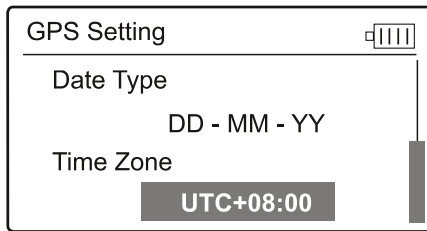
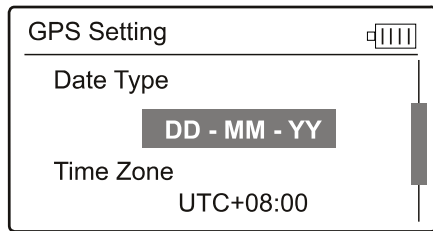
(4.2) Speed Unit

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

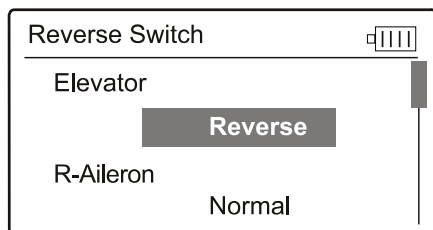
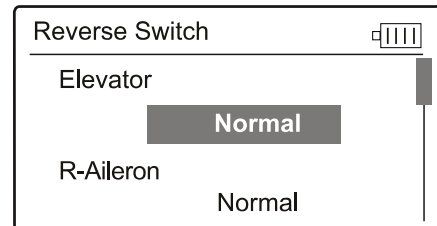
Press UP or DN to select the Time Zone, press R or L to set the desired Time Zone.

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, Motor Hold, Flaperon Mix, Camber System, Differential, Balance, Gyro Sensor, Rudder to Spoiler Mix, Aileron to Rudder Mix, Elevator to Flap Mix, Aileron to Tip Aileron Mix, Flap Rate, Brake System, Program Mix, Monitor, Fail Safe, Sensor view, Trainer and Timer.

3.1 Reverse Switch

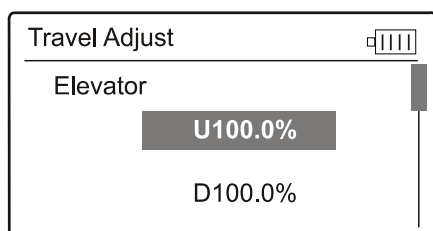
Press ENT to enter Main Menu; Press UP or DN to move the navigation mark to Function Menu, and press ENT to enter Function Menu. Press UP or DN to choose Reverse Switch and Press ENT to enter Reverse Switch interface.



Press UP or DN to move navigation mark to ELE (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: R-Aileron, L-Aileron, Rudder, Motor, Flap, AUX2, AUX3, AUX4, AUX5, AUX6 and AUX7 can be referred to the way of ELEV Reverse Switch. And press EXT to exit after finishing setting.

3.2 Travel Adjust

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



Take Elevator for example, Press UP or DN to move navigation mark 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 Elevation of D. 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%.

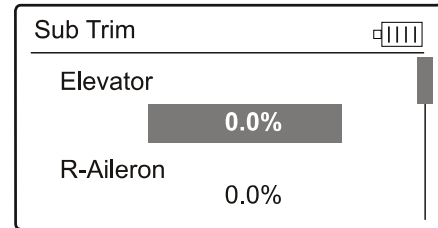
All other channel's Travel Adjust like R-Aileron, L-Aileron, Rudder, Motor, Flap, AUX2, AUX3, AUX4, AUX5, AUX6 and AUX7 can be referred to Elevator travel Adjust. Press EXT to exit after setting finished.

3.3 Sub Trim

Sub Trim can 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 select 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 show 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:

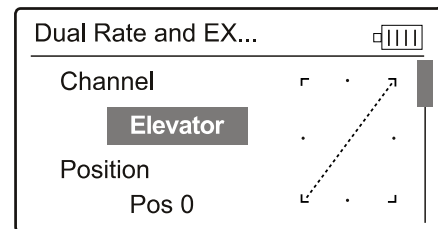
| Channel name | Adjustment range | Channel name | Adjustment range |
|--------------|------------------|--------------|------------------|
| Elevator | D62.5% ~ U62.5% | AUX2 | -62.5% ~ +62.5% |
| R-Aileron | R62.5% ~ L62.5% | AUX3 | -62.5% ~ +62.5% |
| L-Aileron | R62.5% ~ L62.5% | AUX4 | -62.5% ~ +62.5% |
| Rudder | R62.5% ~ L62.5% | AUX5 | -62.5% ~ +62.5% |
| Motor | -62.5% ~ +62.5% | AUX6 | -62.5% ~ +62.5% |
| Flap | D62.5% ~ U62.5% | AUX7 | -62.5% ~ +62.5% |

Press EXT to exit after adjustment finished.

3.4 Dual rate and Exponential

After this function is set up, it is possible for D/R switches to control the dual rates of elevator, aileron and rudder, respectively. The setting range is covered from 0% to 125%. Under the help with exponential curve adjustment, it is possible to make both customized setting and automatic setting. The switch between Dual rate and Exponential can be performed via pushing or pulling the Flight Mode Lever.

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.



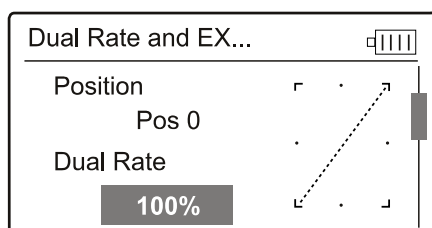
(1) Channel selection

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 D/R switch among Pos0 and Pos1. Take the item Elevator at channel as an example. It's possible to shift between Pos0 and Pos1 via pushing or pulling the D/R 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%.