




DEVO-8S also needs to make relative cancellation and revision after the fixed ID in receiver is cleared out.

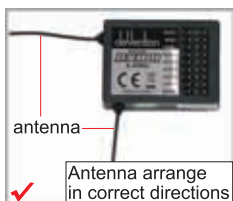
In the main interface touch the icon  to enter Model Menu and then touch  to enter Fixed ID. Touch ID Code Setting to expand the navigation mark into status On and Off. Touch Off. Then touch  to exit.



## 11.0 Installation requirement for receiver

It is important to correctly mount your remote control system in your model. Below are some advices on how to install your equipments.

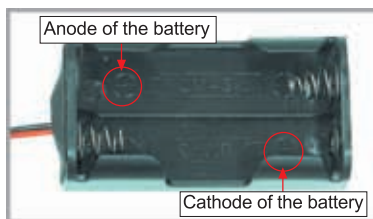
- (1) Wrap the receiver with 10mm thick foam and soundly fix it with a rubber or magic string on your aircraft model. It helps protect the receiver from damage.
- (2) It is necessary to use rubber grommets and copper sleeves to isolate the vibrations from the main body of aircraft model. The mounting screws cannot be over-tightened. Otherwise the rubber grommets will be distorted and decrease the vibration absorption effect.
- (3) When mounting the servos, make sure the servos' bellcranks can move freely over their whole travel range and ensure the control linkages don't touch or impede the movement of these servos.
- (4) If installing various switches, keep them far away from the engine tuned pipe and high vibration sources. Ensure all the switches move freely over their whole travel range.
- (5) Don't make the receiver antennas wrapped or parallel.



## 12.0 Installation requirement for DEVO-8S battery pack

Open the battery cover of DEVO-8S transmitter and take out the battery box. Then put 4 cells AA battery or the same size full charged NIMH battery into the battery box. Please check again to make sure the polarities are correct.

Warning: Do not put the polarities of batteries in the opposite directions.



### 12.1 DEVO-8S battery charging

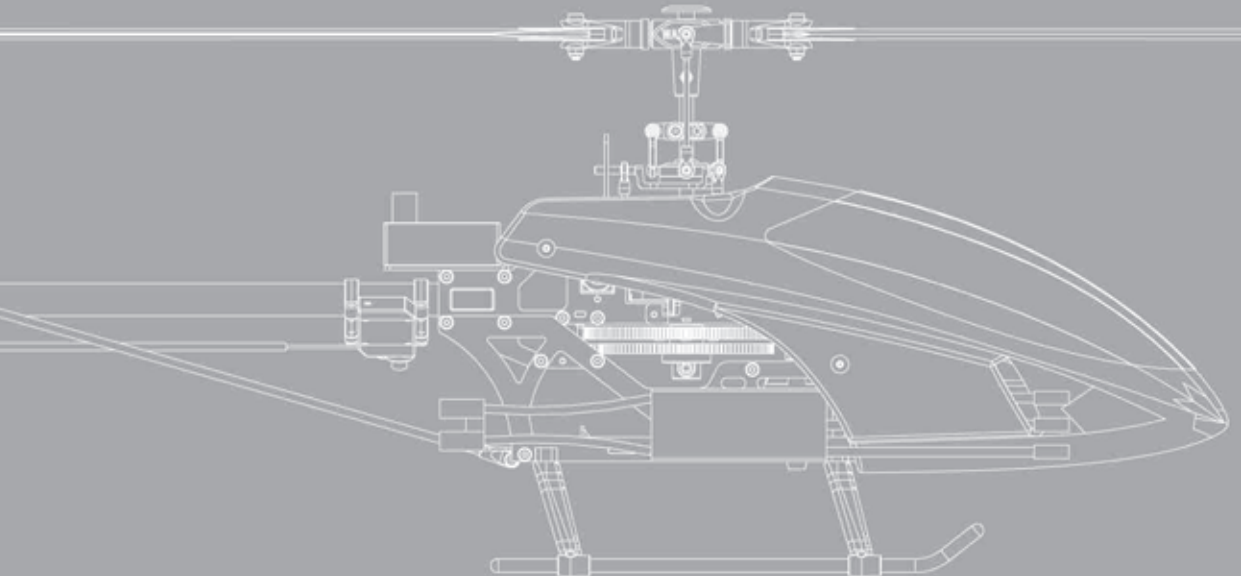
Warning: the CHG socket is only used for the rechargeable NIMH batteries. If using the batteries which is unchargeable. The CHG socket is not allowed to use.

Charge socket(CHG):input DC at 8-12V,200mA; Polarity:  $\oplus \rightarrow \ominus$



## Part two Helicopter

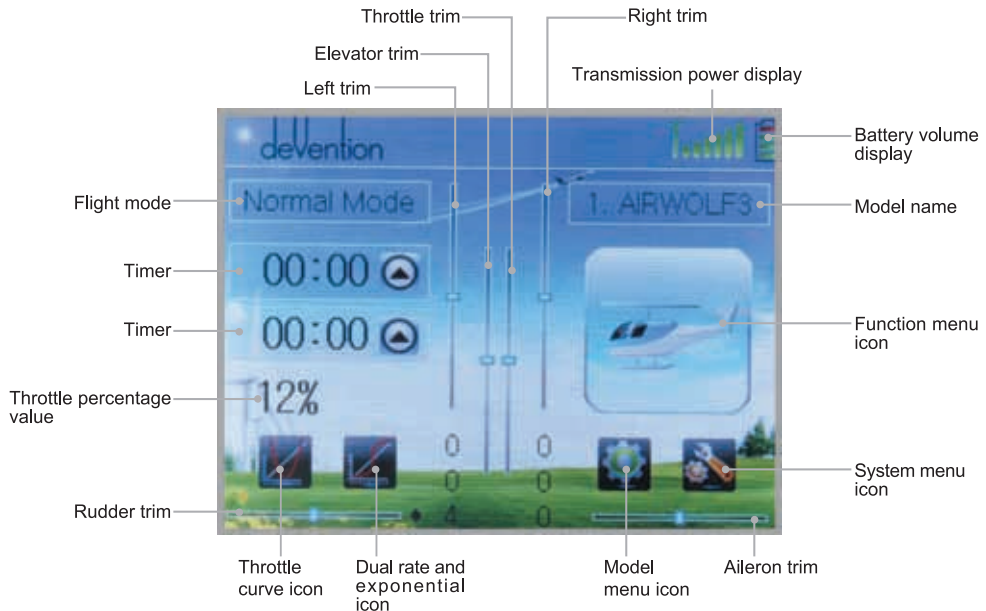
All the functional settings, which are relative to the operation system of DEVO-8S itself, are fully integrated in System Menu. They include Language, Display, Buzzer, Touch Screen Calibration, Stick Mode, Stick Calibration , and About.






## 1.0 System Menu

All the functional settings, which are relative to the operation system of DEVO-8S itself, are fully integrated in System Menu. They include Language, Display, Buzzer, Touch Screen Calibration, Stick Mode, Stick Calibration, and About.

Below is the boot screen of helicopter:



### 1.1 Language Setting

Touch the shortcut icon  to enter System Menu and then touch  to enter the language interface. Touch the language that you want to select. A "✓" will be shown on the screen after selected. Then touch  to save and exit.



1.1 Language Setting



1.2 Display

### 1.2 Display

Touch the shortcut icon  to enter System Menu and then touch the icon  to enter "Display".



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

- (1) Backlight lightness: the backlight lightness is adjustable by touching the navigation marks. The power consumption will be increased if the backlight lightness is too bright and the battery cruise duration will be shortened.

- (2) 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.
- (3) Power save time: it can adjust the backlighting duration by turning off the backlight in order to prolong the battery cruise time. The setting status contents Always On and duration in 30 grades with an interval of 1 minute.

Touch  to exit.

### 1.3 Buzzer Warning

Touch the icon  to enter System Menu and then touch  to enter the buzzer interface.

- (1) Buzzer switch: touch the navigation mark at Buzzer Switch and pop up an alternative item: "Off" and "On". If touching On, a drop-down menu will be shown below.
- (2) Throttle stick buzzer: under Buzzer Switch 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) Buzzer tone: the tone is composed of 10 grades. You can choose the favorite one according to your interests. Touch Test to make a listening test.



Touch  to exit after finished.



### 1.4 TFT Screen Calibration


Touch the icon  to enter System Menu and then touch  to enter the TFT screen calibration interface.

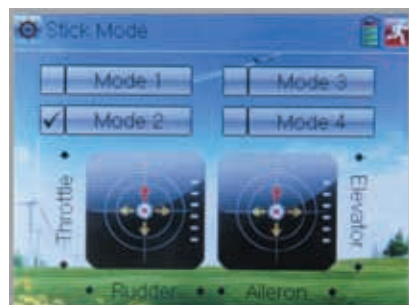
Click anywhere on the screen to start calibration with the touch pen, and then follow the indication to calibrate. It will automatically return to System Menu after the calibration is finished.

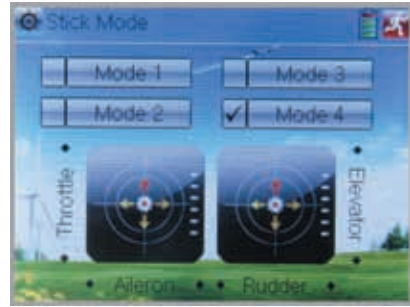
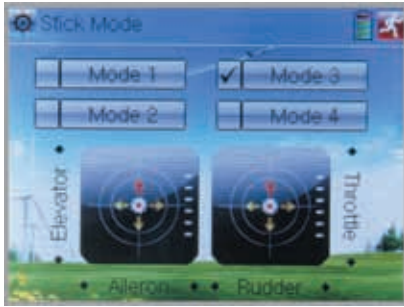


### 1.5 Stick Mode

Touch the icon  to enter System Menu, and then touch the icon  to enter the stick mode interface.

There are four stick modes from MODE 1 to MODE 4. Select the stick mode you desire and then touch the icon  to exit.





### 1.6 Stick Calibration

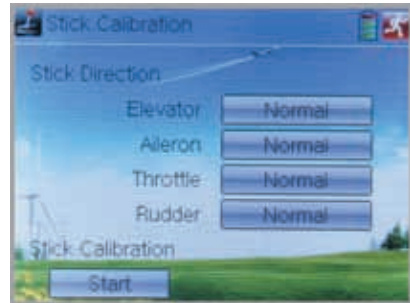
Touch the icon to enter System Menu and then touch the icon to enter the interface of Stick Calibration. There are two items in the interface: Stick Direction and Stick Calibration.

(1) Stick direction: there are four options: Elevator, Aileron, Throttle, and Rudder. Click the item, which you want to reverse, to change the output direction of the stick. The default setting is Normal.

(2) Stick calibration: if variance happened in sticks, it would be calibrated via this option.

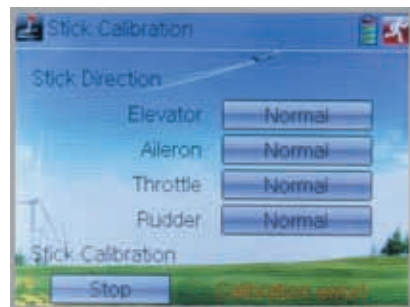
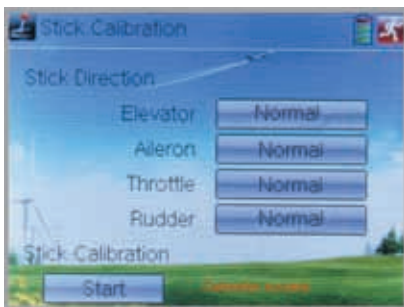
Method for calibration:

Click the display item of Start to enter the status of calibration, and Start will be turned into Stop.



(2.1) Stick calibration: Clockwise or counter clockwise mechanically move the right stick and left stick from their minimum levels to their maximum levels several times, and then return the sticks to the neutral positions, respectively.

(2.2) Click the item of Stop. If the calibration is finished, "Calibration success!" will be shown at the lower of the screen. If the calibration is failed, "Calibration error! Please try again!" will be shown instead. It needs to be calibrated again.



(2.3) Re-calibration: directly repeat the said steps 2.1 and 2.2 in the calibration failure interface.

Touch the icon to exit.



### 1.7 About

Touch the icon to enter System Menu and then touch to get access to the about interface. You can check the versions of hardware and software. Click the icon to exit.



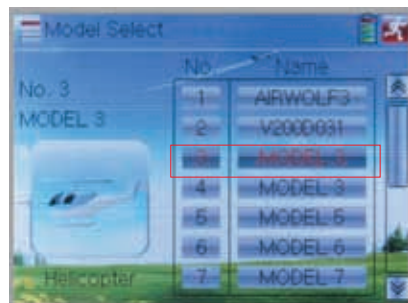
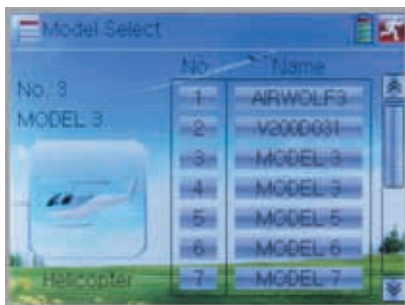
## 2.0 Model Menu

Model Menu manages all the model data saved in DEVO-8S. It includes Model Select, Model Name, Model Copy, Model Transmit, Model Receive, Model Reset, Type Select, Trim System, Device Select, Device Output, Swash Type, Power Amplifier, and Fixed ID.

### 2.1 Model Select

Touch the icon to enter Model Menu and then click the icon to enter the model select interface.

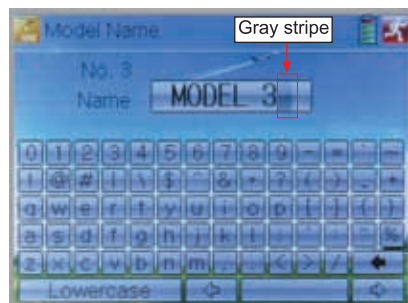
Click the model you desired. The selected model will be temporarily changed into orange color. Then click the icon to exit.






### 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. And then touch the icon to exit.

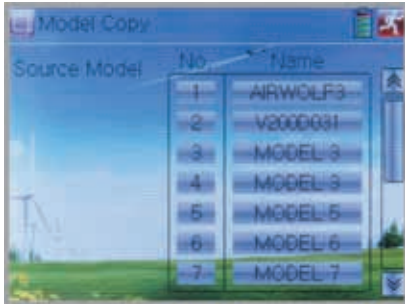
Click the icon to enter System Menu and then click the icon to get the model name interface. The following is the interface:




Click the right blank frame of Name and a gray stripe will be shown in the frame. Touch the return key  to clear up the old name. Touch the soft keyboard to input a new name. It is possible to switch between lowercase and uppercase by clicking the key . Then touch  to exit.

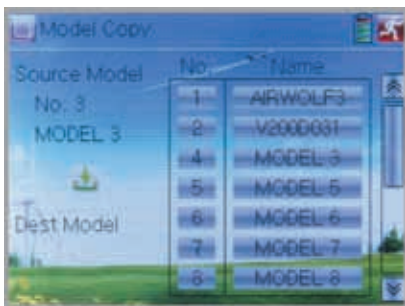
### 2.3 Model Copy

Touch the icon  to enter Model Menu and click  to enter Model Copy.



Choose the model you want to be copied as source model. The serial No. and model name of Source Model will be shown in the left side of the interface.



Then touch the model in the right list where you want to locate the source model. The serial No. and name of the model you chose are shown under Dest Model in the lower left of interface as well as an enquire "Are you sure?" is popped up. Click OK to copy. Otherwise click Cancel. Then the interface will be automatically returned to Model Menu. Click  to save and exit.

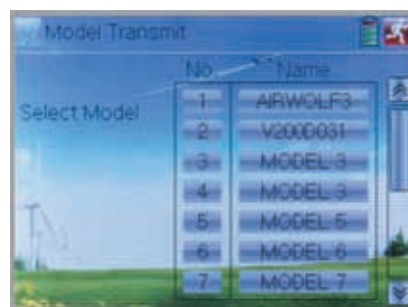


### 2.4 Model wireless copy

The model data between two DEVO-8S equipments can be wirelessly copied via Model Transmit and Model Receive in Model Menu.


#### (1) Model transmission

Touch the icon  to enter Model Menu and then continue to click the icon  to enter Model Transmit.





Welcome to use the DEVO-8S transmitter

Choose the source model which will be transmitted. The serial No. and name of the source model will be shown under Select Model in left side of the interface as well as enquiry information “Are you sure?” in the right side.

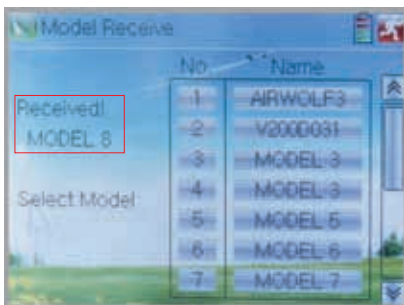
Click OK for transmission or Cancel for rejection. Enquiry information “Transmitting . . . . .” appears after clicking OK. Touch the icon  to exit.



(2) Model receiving

Touch the shortcut icon  to enter Model Menu and then touch the icon  to enter the model receive interface. Enquiry information “Are you sure?” is shown in the center of the interface.

Click OK for receiving or Cancel for rejection. “Connecting . . . . .” and “Receiving . . . . .” will be shown in series in the interface. The information of “Received” with the model name will be shown in left side after receiving is finished.





Choose the save position in the right name list. Enquiry information “Are you sure?” is shown after clicking the save position. Click OK for save and the current interface will automatically return to Mode Menu. Click Cancel for rejection.

Touch the icon  to exit.

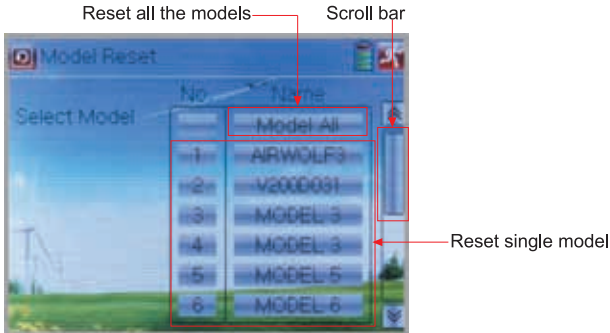


## 2.5 Model Reset

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

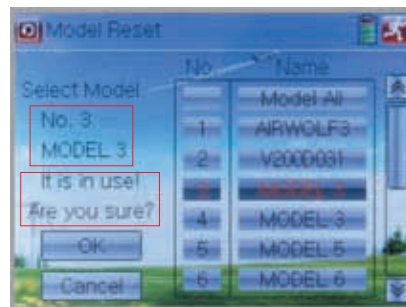
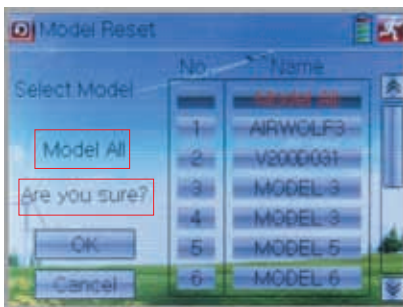
Touch the icon  to enter Model Menu and then click  to enter Model Reset.

It is possible to store up to 12 models data in the model list of DEVO-8S equipment. There are two methods to reset the model data: batch reset and single reset.



(1) Method for batch reset:

Touch 'All Models' in Model Reset interface. Then "All Models" and enquiry "Are you sure?" appear in the left side. Click OK for reset, or Cancel for rejection.





(2) Method for single reset:


Touch the upper or lower navigation mark to move the scroll bar, and then choose the model you want to restore in the model name list. The selected model's name, serial No and enquiry "It is in use! Are you sure?" will appear in the left side. Click OK for resetting, or Cancel for rejection.

Click the icon  to exit.

## 2.6 Type Select

This device offers two model types menu. They are helicopter and airplane respectively.

Touch the icon  to enter Model Menu and then click  to enter Type Select.

Choose the model type and then touch the icon  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.

Touch the icon to enter Model Menu and then click to enter Trim System.



Touch the corresponding navigation mark to change the trim value. The bigger the trim value is, the bigger the trim range will be.

For elevator, aileron, and rudder, there are two more options: Normal and Limited. “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.

## 2.8 Device Select

This setting can help you configure various functional switches, or adjust levers. It includes Flight Mode Switch, Stunt Trim Select, Throttle Hold Switch, Hovering Pitch, and Hovering Throttle.

Friendly reminder: This function is frequently utilized in flights. Modelers will be greatly favored if expertly mastering its usage.

Setting method:

Touch the icon to enter Model Menu, and then click the icon to enter Device Select.



### (1) Flight Mode Switch

Touch the navigation mark of Flight Mode Switch and expand into a dropdown menu, where to choose the mode switch you desire. The factory default setting is FMOD SW.

### (2) Stunt Trim Select

There are two modes: Common and Flight Mode. In Common mode all the trim values, which various sticks are corresponding to, put equally effects on all the flight modes.

In Flight Mode, the trim value, which each stick is corresponding to, puts independently effect on the corresponding stick. The factory default is Common.

### (3) Throttle Hold Switch

Refer to “Flight Mode Switch”.

### (4) Hovering Pitch

Refer to “Flight Mode Switch”.

### (5) Hovering Throttle

Refer to “Flight Mode Switch”.

Click the icon to exit.

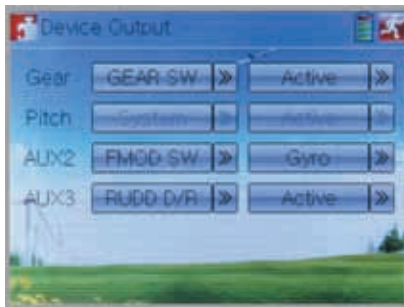
## 2.9 Device Output

Device output is composed of four items. It can set up the output switches and select the usage of trims, respectively. It can also activate, inhibit or use other functions.

Friendly reminder: This function is frequently utilized in flights. Modelers will be greatly favored if expertly mastering its usage.

Setting method:

Touch the icon  to enter Model Menu and then click  to enter the device output interface.



There are four adjustable items. They are Gear, Pitch, AUX2 and AUX3, respectively. The setting methods for them are shown below:

### (1) Gear

Touch the left column navigation mark of Gear and pop up an expansion list including FMOD SW, MIX SW, ELEV D/R, AILE D/R, RUDD D/R, and GERA SW. Touch the desired item. The default setting is GEAR SW.



Touch the right column navigation mark of Gear. Pop up an expansion list including Inhibit, Active, Gyro, and Governor. Touch the desired item. The default setting is Active.

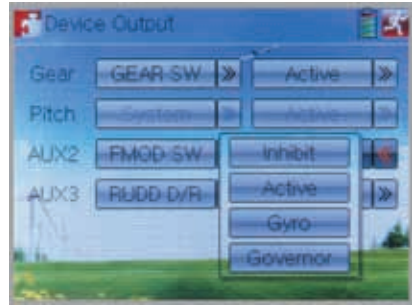
### (2) Pitch

The item is programmed as system default. Any setting is unavailable.

### (3) AUX 2

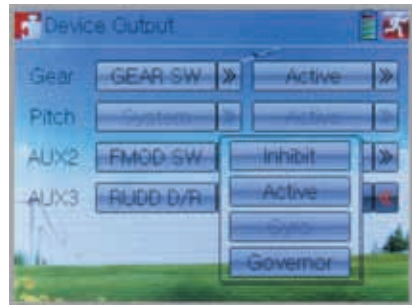
Touch the left column navigation mark of AUX 2. Pop up an expansion list including FMOD SW, MIX SW, ELEV D/R, AILE D/R, RUDD D/R, GEAR SW. Touch the desired item, The default setting is FMOD.

Touch the right column navigation mark of AUX 2, and expands a list including Inhibit, Active, Gyro, and Governor. Click the desired item. The default setting is Gyro.



(4) AUX 3

Touch the left column navigation mark of AUX 3, and expands a list including FMOD SW, MIX SW, ELEV D/R, AILE D/R, RUDD D/R, GEAR SW. Touch the desired item, The default setting is RUDD D/R.



Click the right column navigation mark of AUX3, and see an expansion list including Inhibit, Active, Gyro, and Governor. Choose the desired item. The factory fault setting is Active. Then continue to set up other items.

Click the icon to exit.

**2.10 Swash Type**

The swash type is grouped into five options: 1 Servo Normal, 2 Servos 180°, 3 Servos 120°, 3 Servos 140°, and 3 Servos 90°.

Setting method:

Touch the icon to enter Model Menu, and then click the icon to enter the swash type interface.

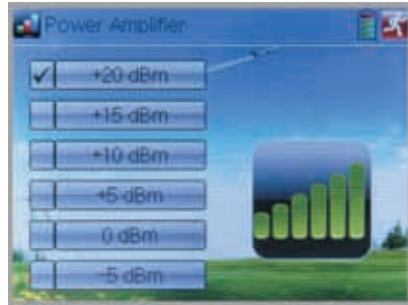
Choose the desired swashplate and then click the icon to exit.



### 2.11 Power Amplifier

The transmission output power of DEVO-8S is adjustable. It's valid to set different wattage for different model. 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 farther the radio range, and the shorter the stand-by time. Choose the appropriate transmission output power according to the actual situation.

Setting method:



Touch the icon to enter System Menu and then click to enter the power amplifier interface. Choose the appropriate output power level and then touch to exit.

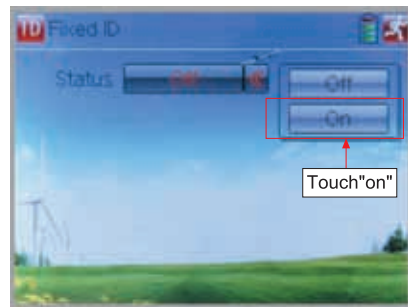
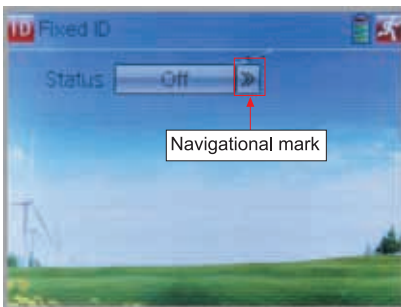
### 2.11 Fixed ID

This setting will bind DEVO-8S and its receiver in a unique corresponding relationship. It will greatly speed up the time of automatic binding when DEVO-8S powered on.

(1) Setting for fixed ID

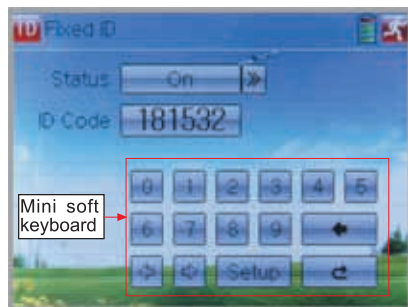
The setting for fixed ID should be under the status that automatic ID binding is successfully finished. Below is the setting method.

Touch the icon to enter Model Menu, and then click the icon to enter FIX ID interface.



Touch the navigation mark of the item ID Code Setting. It will expand into two statuses: Off and On. A series of random digits will be shown below after touching On.

A mini soft keyboard is shown in the lower part after touching the random digits of ID Code





The new ID digits can be modified by touching the mini soft keyboard. Then touch Match after the new ID is already set. An inquiry interface of “Are you sure?” pops up. “ID Code Match.....” will be shown after touching OK.



(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 one of the other output terminals. The red light of receiver will flash slowly. This means the fixed ID code has been cancelled. Pull out BIND PLUG.



DEVO-8S also needs to make relative cancellation and reversion after the fixed ID in receiver is cleared out.

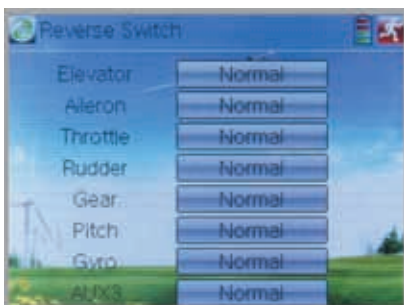
In the main interface touch the icon to enter Model Menu and then touch to enter Fixed ID. Touch ID Code Setting to expand the navigation mark into two statues On and Off. Touch Off. Then touch to exit.

### 3.0 Function Menu

Function Menu can help you make 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, Mix to Throttle, Gyro Sensor, Governor, Swash Mix, Pitch Curve, Program Mix, Monitor, Fail Safe, Trainer, and Timer.

#### 3.1 Reverse Switch

Touch the shortcut icon to enter Function Menu, and then click to enter the reverse switch interface.



The statues of total 8 channels are shown in the interface. Touch the relative channel for Normal or Reverse switch. The default setting is Normal.

Click the icon to exit.