

(2.3) Exponential

Press UP or DN to move the cursor→to point to Exponential setting item, press R+ or L- with “Off and On” two options. Select “On” can make the curve change to more circular; If don’t use this function, then, select “Off”.

(2.4) Point

Press UP or DN to move the cursor→to point to the setting interface of Point. Press R or L keys of setting point, there are “point-L”, “point -1”, “point -2”, “point -M”, “point -3”, “point -4”, “point -H”. Choose the points need adjusting.

Program Mix 1	↑↓7.4V
→ Point	Point -M
Status	Inhibit
In: 0	Out: 0

(2.5) Status Setting

(There is no Status options when the point is Point-L or Point-H) After selecting the point that you want to set, press UP or DN to move the cursor→to point to Status item, press R+ or L-, there are two options of Inhibit and Active. Select Inhibit for unchanging the current amount (the default setting is Inhibit).

Program Mix 1	↑↓7.4V
Point	Point -M
→ Status	Inhibit
In: 0	Out: 0

Program Mix 1	↑↓7.4V
Point	Point -M
→ Status	Active
Output	0
In: 0	Out: 0

Program Mix 1	↑↓7.4V
Point	Point -M
Status	Active
→ Output	0
In: 0	Out: 0

(2.6) Output

When the Status option is Active, the Output option will be listed. Press DN to move the cursor→to point to Output setting, press R+ or L- to increase or decrease, respectively, the output value. The adjustable range is from 0.0% to 100.0%. “IN” and “Out” means throttle stick input and output level.

(2.7) Switch

Press UP or DN to move the cursor→to point to the Switch setting item and press ENT to enter the select interface of Switch. Press UP or DN to choose the switch you wish to set . Press ENT to confirm.

Program Mix 1	↑7.4V
Status	Active
Output	0
→ Switch	On
In: 0	Out: 0

Switch	7.4V
→▷ Always On	
SPSO SW	
SPS1 SW	
SPS2 SW	
SPS3 SW	

Press EXT key to return to the previous interface for other settings or press EXT key to exit after finished.

Notes: Enable the Stick Switch at “2.8 Stick Position Switch” setting item.

3.7 Monitor

This function can display the current status and positions of all the channels’ outputs, and check the current working status of each channel.

Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Function Menu, press ENT to Function Menu; Press UP or DN to move the cursor→to point to Monitor, press ENT to Monitor setting interface. See below to check the current working status of each channel.

Press EXT to exit.

Monitor	7.4V
Elevator	0
Aileron	0
Throttle	L100
Rudder	0

3.8 Fail Safe

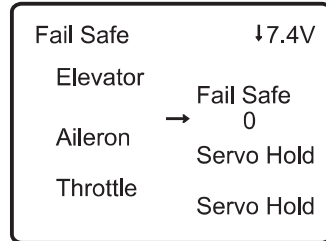
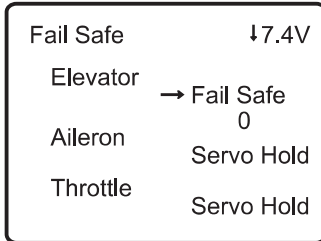
There are two possibilities for use if the transmission signal is under abnormal condition. The first one is to lock the last action data received; the second one is to execute the pre-set data which is pre-set. The default setting is Servo Hold.

Setting method:

Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Function Menu, press ENT to Function Menu; Press UP or DN to move the cursor→to point to Fail Safe, press ENT to Fail Safe setting interface. Take the item Elevator as an example.

Fail Safe	↓7.4V
Elevator	→ Servo Hold
Aileron	Servo Hold
Throttle	Servo Hold

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 an expanded sub-item below. 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 the same as above. Press EXT to exit after finished.

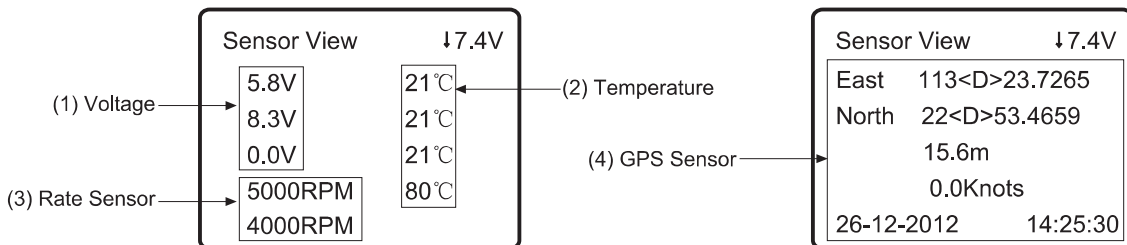
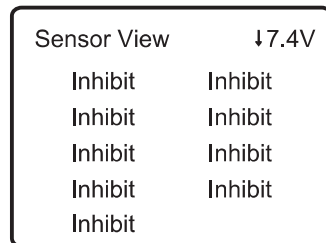
Note: Checking whether all the actions when fail safe happened are correct, is a must after the setting is finished. It is dangerous to use full throttle, especially after fail safe taken place.

3.9 Sensor View

Setting method: Press ENT to the Main Menu. Press UP or DN to move the cursor → to point to Function Menu, press ENT to Function Menu; Press UP or DN to move the cursor → to point to Sensor View, press ENT to Sensor View setting interface.

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;



3.10 Trainer

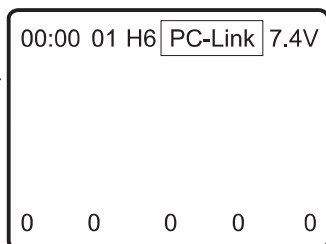
Two DEVO F4 transmitters can be made to work together in order to offer a teacher-trainer function, meeting the requirements for a beginner. The setup of training mode is described below:

(1) Model data transmission

First step is to use the DEVO F4's wireless data transmission feature to transfer the teacher's main model data to the trainee's DEVO F4 transmitter. This step guarantees that the model data in each transmitter is identical. Refer to item "2.4 model wireless copy" in the Helicopter section later in this manual. Two DEVO F4 transmitters are needed for wireless data transmission.

(2) Training connection

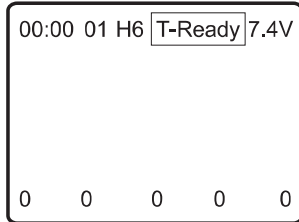
Insert the signal wire from the trainer's transmitter into the DSC socket of the trainee's transmitter. Turn on the transmitter and a linkage icon, PC-Link will be shown on the boot screen. Insert one end of the signal wire (included) into the DSC socket of the trainee's transmitter and turn it on. PC-Link will be shown in the trainee's DEVO F4 display (see image right).



Welcome to use the DEVO F4 transmitter

linkage icon

Turn on the power of the trainer's DEVO F4. Select the same model as the trainee (as transferred in the previous section) and briefly fly the aircraft to confirm the settings are good. Turn off the aircraft and turn off the trainer's DEVO F4 power. Insert the other end of the signal wire into the trainer's DEVO F4 DSC port and turn on the power once more, T-Ready will be shown in the trainee's DEVO F4 display (see image left).



(3) Trainer Function Channel Setup

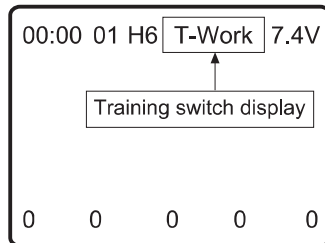
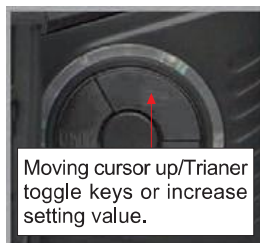
The trainee can inquire the control part or whole channel operation by setting the trainer's function channel. Here is the setup:

Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Function Menu, press ENT to Function Menu; Press UP or DN to move the cursor→to point to Trainer, press ENT to Trainer Function setting; Press UP or DN to move the cursor→to point to the desired setting channel, there are Elevator, Aileron, Throttle, Rudder channels available. Press R+ or L- to set Active or Inhibit for the choosed Channel.

Trainer	7.4V
→ Elevator	Inhibit
Aileron	Inhibit
Throttle	Inhibit
Rudder	Inhibit

(4) Training mode usage

Trainer toggle keys is R+ button, as illustration.

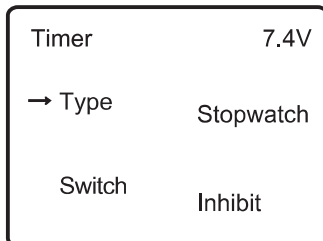


On a flight, if the Trainer press the button R+, it means the Trainer turn over the command to the Trainee to operate. Meanwhile, the starting up picture will be showing T-Work. The showing throttle date is the trainee operated. If the Trainer press the R+ again, it means the trainer retract the command and operate by the trainer.

3.11 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 the Main Menu. Press UP or DN to move the cursor→to point to Function Menu, press ENT to Function Menu; Press UP or DN to move the cursor→to point to Timer, press ENT to Timer setting interface. See the right illustration:

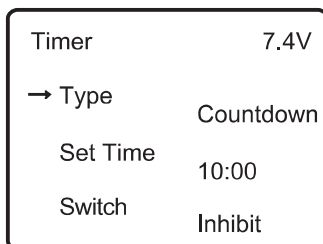


(1) Type

Press UP or DN to move the cursor→to point to Type. Press R+ or L- to choose Stopwatch or Countdown. The default setting is stopwatch. The time range of stopwatch is from 0 to 59:59 (59 minutes 59 seconds).

(2) 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 select the option of Set time item. Press R+ or L- to set the countdown time. The settable countdown time range is from 00:05 to 59:55.

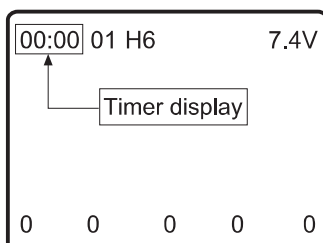


(3) Switch selection

Press UP or DN to move the cursor→to point to Switch setting, with "Inhibit" and optional switch item. If select switch, press L- or R+. Available to select other switches SPS0 SW, SPS1 SW, SPS2 SW, SPS3 SW, need to set "Stick Position Switch" of the "Model Menu" and then is effective(refer to "2.8 Stick Position Switch").

(4) Usage of timer

Press UP or DN 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 below illustration:



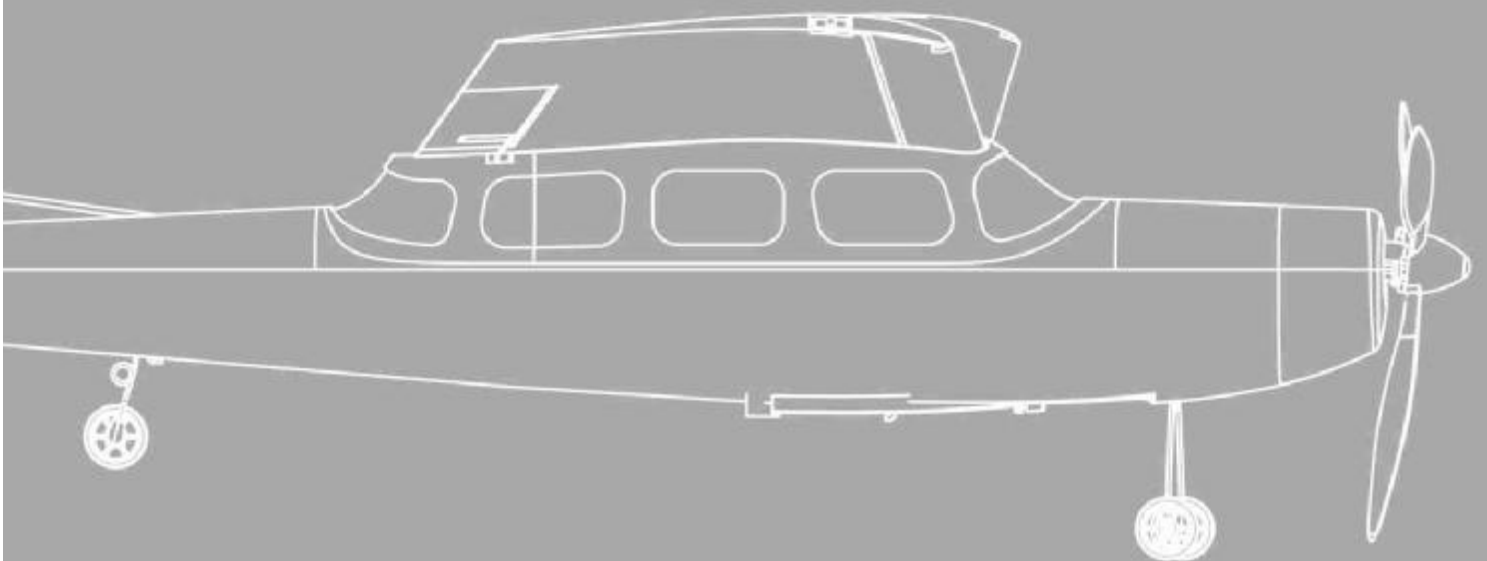
deVENTion

DEVO F4

Part three Airplane

All the functional settings, which are relative to the operation system of DEVO F4 itself, are fully integrated in System Menu. They include Display, Buzzer, vibrator, Video Select, Stick Mode, Stick Direction, Stick calibration, and About.

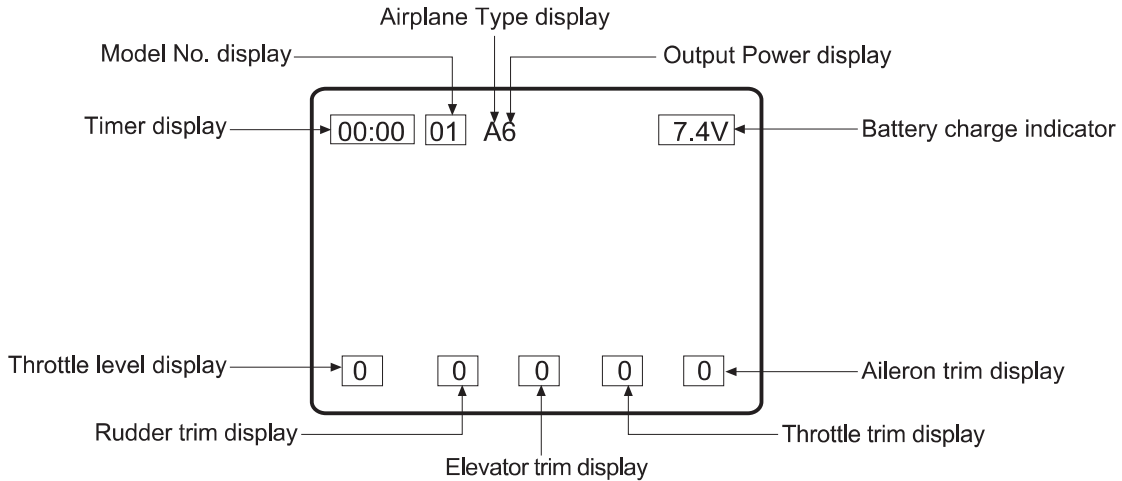
Setup your DEVO F4 transmitter for the best Helicopter performance with the following sections. Included are specific functions for rotor-craft features; Throttle curves, Pitch curves and Cyclic response are covered below.



1.0 System Menu

This section describes the settings which are specific to the operation of the DEVO F4 itself. Settings for Display, Buzzer, Vibrator, Video Select, Stick Mode, Stick Direction, Stick Calibration and About can be accessed via the System Menu.

Below is the boot screen of Airplane:



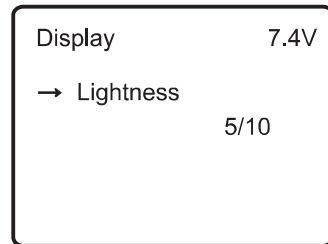
1.1 Display

Backlight intensity: the backlight intensity is adjustable using the UP or DN button. Power consumption will be increased when intensity is high and battery life will be reduced.

Setting:

Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to System Menu, press ENT to System Menu; Press UP or DN to move the cursor→to point to Display, press ENT to the Lightness setting interface and use R or L to change the setting as desired.

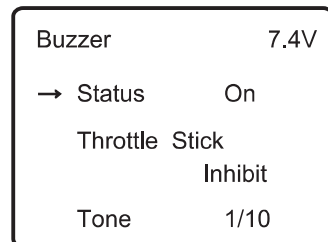
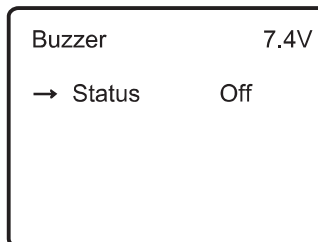
Press EXT to exit.



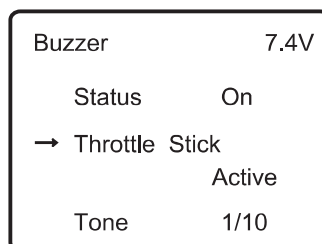
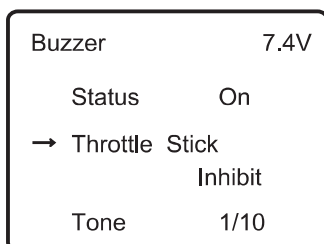
1.2 Buzzer Setting

(1) Status: Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to System Menu, press

ENT to System Menu; Press UP or DN to move the cursor→to point to Buzzer, press ENT to the Buzzer setting interface. And then press UP or DN to move the cursor→to point to the Status, press R or L to toggle between ON and OFF settings. ON means start the Buzzer while OFF means the Inhibit.



(2) Throttle stick: With the "Status" item on, the option THSTK can be set to ON or OFF. If the Throttle Stick setting is ON/Active, a musical scale will be heard when moving the throttle stick. The position of the throttle stick can be judged by listening to the change in musical tone. Setting OFF, turns off the sounds.



Setting:

With the "Status" item on, press DN to move the cursor→to point to the "Throttle Stick". Use R or L to change the display between Inhibit and Active. Active means tones will be played, Inhibit means there will be no tones played.

Welcome to use the DEVO F4 transmitter

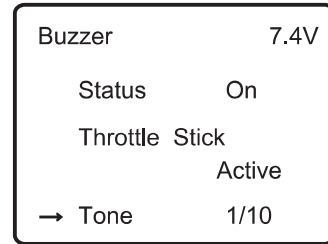
(3) Tone:

The buzzer tone can be selected from 10 notes. You can set the tone according to your preference and test the performance.

Setting:

With the "Status" item on, press DN to move the cursor→to point to Tone item. Use R or L key to change the flashing value from 1 to 10.

Press EXT to exit after finished.

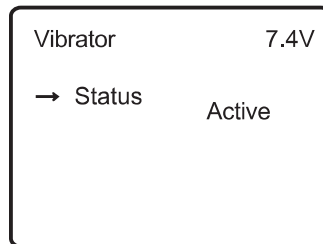
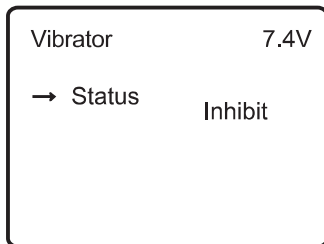


1.3 Vibrator

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

Setting:

Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to System Menu, press ENT to System Menu; Press UP or DN to move the cursor→to point to Vibrator, press ENT to Vibrator setting interface.



There are two status as Inhibit and Active. Press R or L to select Active or Inhibit. Active means to start vibration, Inhibit means to turn off vibration.

Press EXT to exit after finished.

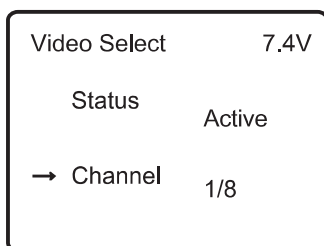
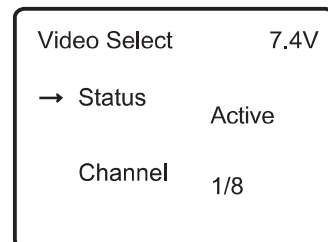
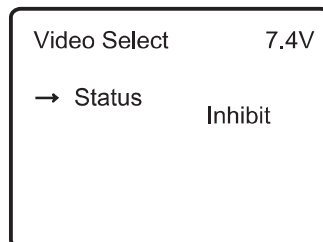
1.4 Video Select

This function provides the settings of Inhibit or Active when choose the Video option. There are 8 channels for your choice at the state of Active.

Setting:

Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to System Menu, press ENT to System Menu; Press UP or DN to move the cursor→to point to Video Select, press ENT to Video Select setting interface.

Press R or L to make the status to change Active or Inhibit, Active means to start using. Inhibit means to turn off. After Active, the interface will be show channel selection.



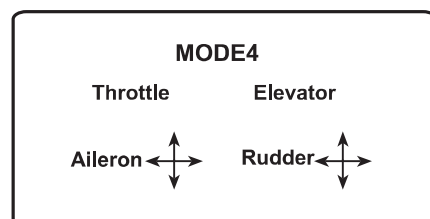
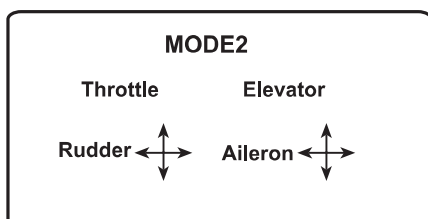
Channels options: Press DN to move the cursor→to point to Channel item as shown in the above interface. Press R or L to make the Number change between 1 to 8. With the 5.8G image transmission module, 1-8 channels could be chosen to receive the image signal.

Press EXT to exit after finished.

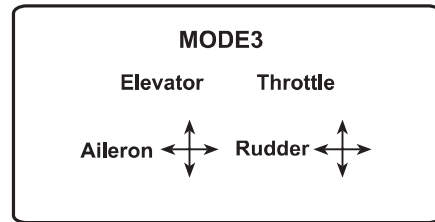
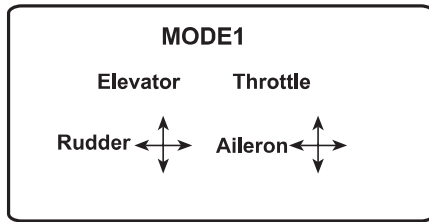
1.5 Stick Mode

There are 4 stick modes including Mode1, Mode2, Mode3 and Mode4. Right-hand throttle includes Mode1 and Mode3; while left-hand throttle includes Mode2 and Mode4. See Below:

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



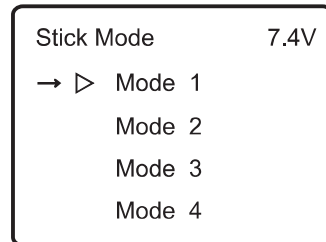
Mode 1 and Mode 3 are listed in right-hand throttle.



Setting: Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to System Menu, press ENT to System Menu; Press UP or DN to move the cursor→to point to Stick Mode, press ENT to Stick Mode setting interface.

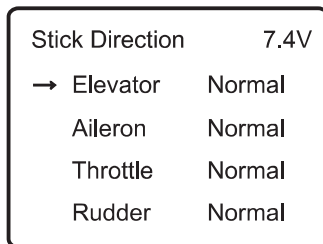
There are mode 1, mode 2, mode 3 and mode 4 for options. Press UP or DN to move the cursor→to point to desired item and then press ENT to confirm.

Press EXT to exit after finished.



1.6 Stick Direction

Setting: Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to System Menu, press ENT to System Menu; Press UP or DN to move the cursor→to point to Stick Direction, press ENT to Stick Direction setting interface.

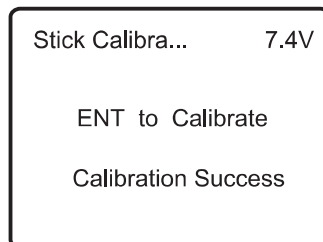
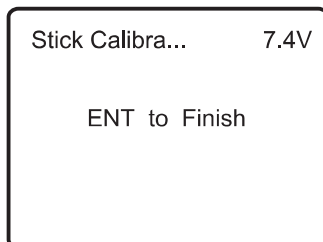
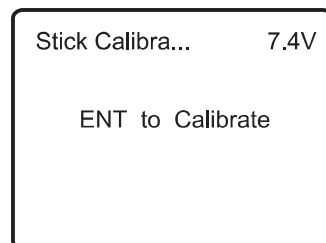


Stick Direction: There are Elevator, Aileron, Throttle, Rudder for options. Press UP or DN to move the cursor→to point to the desired item. Press R or L to change the settings of corresponding sticks. There are Normal and Reverse. The default setting is Normal.

1.7 Stick Calibration

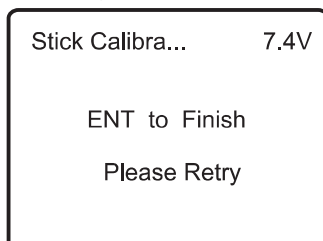
Setting: Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to System Menu, press ENT to System Menu; Press UP or DN to move the cursor→to point to Stick Calibration, press ENT to Stick Calibration setting interface.

Stick Calibration: 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.



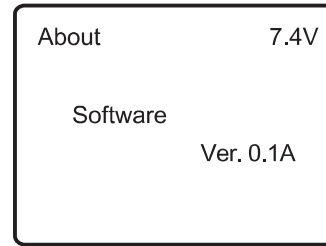
Press ENT again to stop the calibration process and the display should show the following interface(Calibration Success).

The calibration has failed if press ENT and show the following interface. Please go back to the STMOD sub-menu using EXT and re-start the calibration process. Press EXT to exit after finished.



1.8 About

Setting: Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to System Menu, press ENT to System Menu; Press UP or DN to move the cursor→to point to About, press ENT to About setting interface. You can check the current versions of hardware and software. Press EXT to exit after finished.

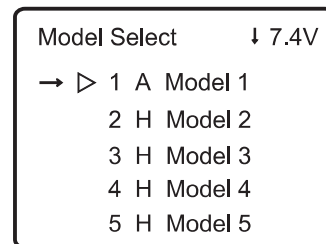


2.0 Model Menu

Model Menu manages all the model data saved in DEVO F4. It includes Model Select, Model Name, Model Copy, Model Transmit, Model Receive, Model Reset, Type Select, Trim System, Stick Position Switch, Wing Type, Power Amplifier, Fixed ID and Sensor setting.

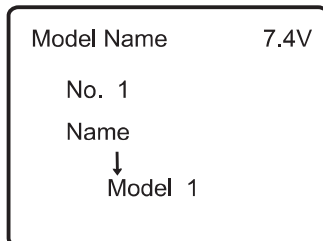
2.1 Model Select

Setting: Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Model Menu, press ENT to Model Menu; Press UP or DN to move the cursor→to point to Model Select, press ENT to Model Select setting interface. There are 15 different model settings to be saved. Press UP or DN to move the cursor→to point to select the model No you want and press ENT to confirm. Press EXT 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, press EXT to back to the interface.

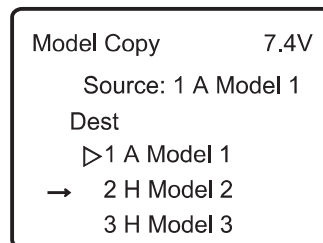
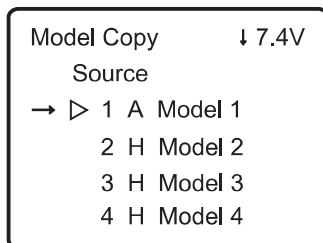


Setting: Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Model Menu, press ENT to Model Menu; Press UP or DN to move the cursor→to point to Model Name, press ENT to Model Name setting interface.

Press UP or DN to move the cursor→to point 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.

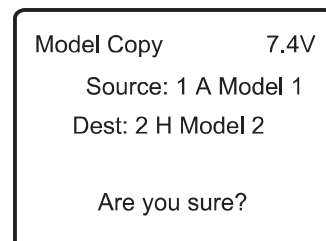
2.3 Model Copy

Setting: Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Model Menu, press ENT to Model Menu; Press UP or DN to move the cursor→to point to Model Copy, press ENT to Model Copy setting interface.



Press UP or DN to move the cursor→to point to select 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 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 Illustration. Press ENT to copy, or press EXT to exit.

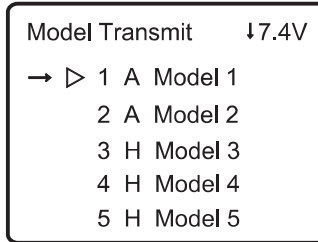


2.4 Model wireless copy

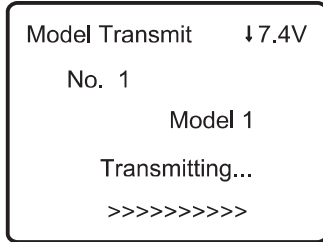
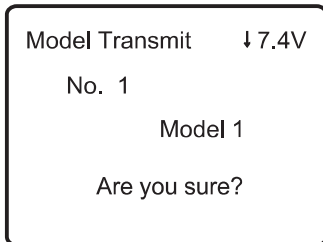
The model data between two DEVO F4 equipments can be wirelessly copied via Model Transmit and Model Receive in Model Menu.

(1) Model Transmit

Setting: Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Model Menu, press ENT to Model Menu; Press UP or DN to move the cursor→to point to Model Transmission, press ENT to Model Transmission setting interface.



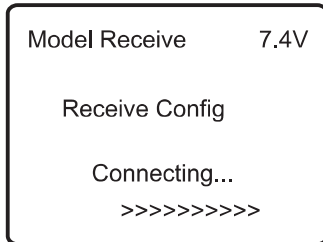
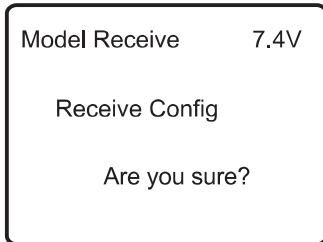
Press UP or DN to choose the source model which will be transmitted, and press ENT to confirm, an enquiry information “Are you sure?” will be shown as below illustration. Press ENT to confirm and EXT to exit.



Press ENT to transmit, “Transmitting” appears in the interface. Or press ENT to confirm. Press EXT to exit after another DEVO F4 received the data.

(2) Model Receive

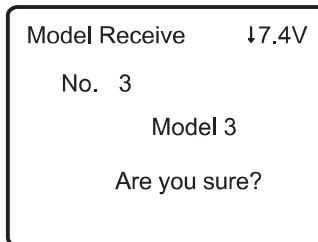
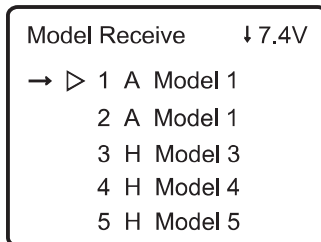
Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Model Menu, press ENT to Model Menu; Press UP or DN to move the cursor→to point to Model Receive, press ENT to Model Receive setting interface. An enquiry information “Are you sure?” will be shown as below illustration.



Press ENT to receive, “Connecting” and “Receiving” will be shown in series in the interface.

After Model received the data will enter to the Model save interface. Press UP or DN to move to the cursor→to point to Model data save position. Press ENT will pop up “Are you sure”. Press ENT to save, press EXT to cancel .

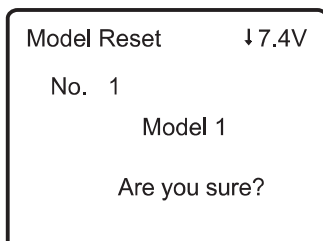
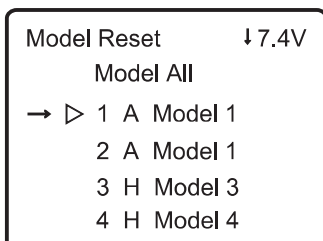
Press ENT to confirm and EXT to exit.



2.5 Model Reset

Using the Model Reset function the settings for one or all models can be reset to the factory defaults.

Setting: Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Model Menu, press ENT to Model Menu; Press UP or DN to move the cursor→to point to Model Reset, press ENT again to display to model selection. Use R and L to select “ALL” for all models or the individual model name for a single model reset.



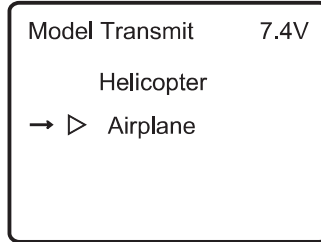
Press UP or DN to move the cursor→ to point to the desired model No and press ENT, an inquiry “Are you sure” will be shown as illustration. Press ENT to reset and EXT to cancel. Press EXT after finished.

2.6 Type Select

This transmitter offers a choice of two model types. The options are helicopter and airplane.

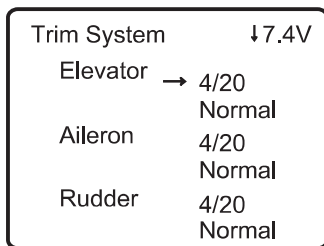
Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Model Menu, press ENT to Model Menu; Press UP or DN to move the cursor→to point to Type Select, press ENT to Type Select setting interface.

Press UP or DN to move the cursor→to point to helicopter or Airplane option. Press ENT, there is an inquiry shows. Press ENT to select the desired model. If the default model are the desired one. Press ENT and press EXT to exit.



2.7 Trim System

Trim System is able to finely tune the following terms, respectively: Elevator, Aileron, Rudder, Throttle. 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.

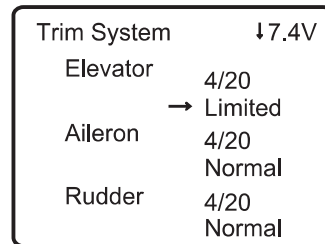
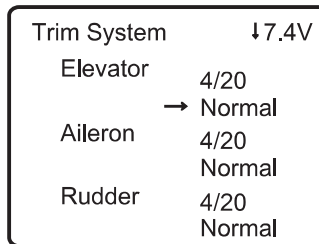


Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Model Menu, press ENT to Model Menu; Press UP or DN to move the cursor→to point to Trim System, press ENT to Trim System setting interface.

Press UP or DN to move the cursor→to point to the item that need to adjust. Press R+ or L- can change the setup, Maxium is 20.

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.

Press EXT to exit after finished.

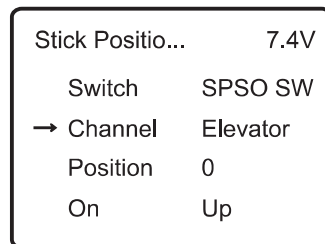
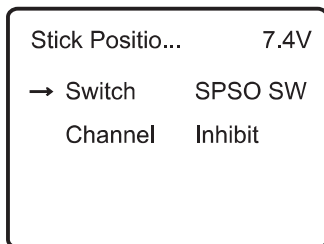


2.8 Stick Position Switch

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

Method for setting:

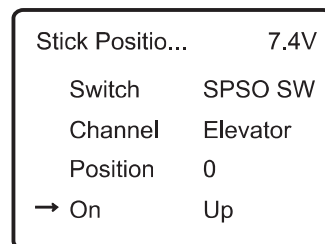
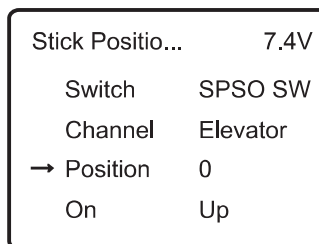
Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Model Menu, press ENT to Model Menu; Press UP or DN to move the cursor→to point to Stick Position Switch, press ENT to Stick Position Switch setting interface.



There are four options under the Stick position switch: SPS0, SPS1, SPS2, SPS3. Press UP or DN to move the cursor→to point to switch option. Press R or L to choose the switch you want to define. Press UP or DN to move the cursor→to point to the channel option. There are Inhibit and channel options.(Default setting inhibit)

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, and then press DN to move the cursor→to point to value of position. It's possible to adjust the stick position via pressing R or L. Press UP or DN to move the cursor→to point to On option. And then press R+ or L- to change the ON status of stick postion Press EXT after finished.



2.9 Wing Type

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

Wing Type selection:

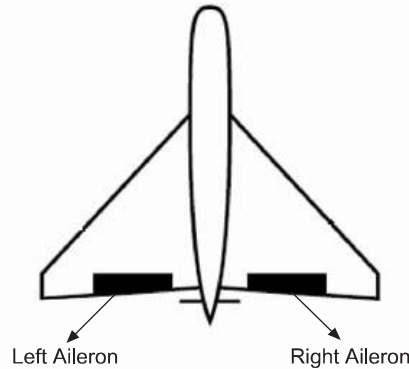
Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Model Menu, press ENT to Model Menu; Press UP or DN to move the cursor→to point to Wing Type, press ENT to Wing Type setting interface. Press UP or DN to move the cursor→to point to Wing Type, press R or L to choose Normal or Delta.

Wing Type	7.4V
→ Wing Type	Normal
V-Tail	Inhibit

(1) Delta

Press R or L to choose Delta in Wing Type.

Below is the graphics of the servos location of the Delta Type.

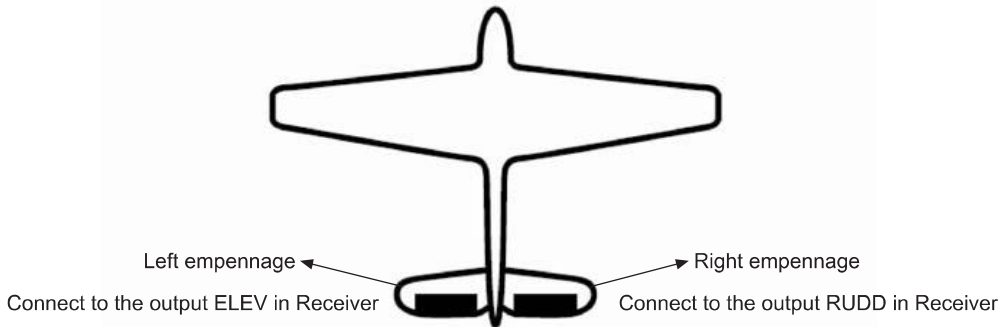


(2) V-tail

Connect to the output AILE in Receiver Connect to the output ELEV in Receiver

Press UP or DN to move the cursor→to point to V-Tail under Wing Type 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:



2.10 Power Amplifier

The transmission output power of DEVO F4 is adjustable. It is divided into six grades from low to high. 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.

Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to Model Menu, press ENT to Model Menu; Press UP or DN to move the cursor→to point to Power Amplifier, press ENT to Power Amplifier setting interface.

Power Amplifier	7.4V
→ ▷ 20 dBm	5 dBm
15 dBm	0 dBm
10 dBm	-5 dBm

00:00 01 H6	7.4V
↑ output power level	
0	0
0	0
0	0
0	0

Press UP or DN to move the cursor→to point to the desired output power value and press ENT to confirm. The output power level will also show on the main menu interface see the left illustration: