

deVention
DEVO F7



DEVO F7

7-channel micro computer system

DEVO F7 transmitter Users Manual

Note: Please read the manual thoroughly before use and keep it in a safe place for the future reference.

Contents

Part one: General information

1.0 General information	2
1.1 Important statements	2
1.2 Safety needing attention	2
1.3 Attention before flight	2
2.0 Features	3
2.1 Transmitter DEVO F7	3
2.2 Features of DEVO-RX701	3
3.0 Specification	3
3.1 DEVO F7 transmitter specification	3
3.2 Receiver specification	3
4.0 Definition of DEVO F7	4
4.1 Panel definition	4
4.2 Rear definition	4
4.3 Wiring Diagram	5
4.4 Function keys in panel	5
5.0 Control Stick Adjustment	5
5.1 The stick length adjustment	5
5.2 Stick Tension Adjustment	5
6.0 Neck Strap Usage	6
7.0 Stick Mode Switch	6
8.0 Switches between left-hand and right-hand throttles	6
8.1 Right-hand throttle switched to left-hand throttle	7
8.2 Left-hand throttle switched to right-hand throttle	7
9.0 Training function	8
10.0 Customized fixed ID	9
11.0 Receiver installation requirement	10
12.0 Installation requirement for battery pack	10

Part two: Helicopter

1.0 System Menu	12
1.1 Display	12
1.2 Buzzer Setting	12
1.3 Vibrator	13
1.4 Video Select	13
1.5 Stick Mode	13
1.6 Stick Direction	14
1.7 Stick Calibration	14
1.8 About	15
2.0 Model Menu	15
2.1 Model Select	15
2.2 Model Name	15
2.3 Model Copy	15
2.4 Model wireless copy	16
2.5 Model Reset	16
2.6 Type Select	17
2.7 Trim System	17
2.8 Stick Position Switch	17
2.9 Device Select	18
2.10 Device Output	18
2.11 Swash Type	19
2.12 Power Amplifier	19
2.13 Fixed ID	19
2.14 Sensor Setting	20
3.0 Function Menu	22
3.1 Reverse Switch	22
3.2 Travel Adjust	22
3.3 Sub Trim	22
3.4 Dual Rate and Exponential	23
3.5 Throttle Hold	24
3.6 Throttle Curve	24
3.7 Mix to Throttle	25
3.8 Gyro Sensor	26

3.9 Governor	27
3.10 Swash Mix	27
3.11 Pitch Curve	28
3.12 Program Mix	30
3.13 Monitor	32
3.14 Fail safe	32
3.15 Sensor View	32
3.16 Trainer	33
3.17 Timer	34

Part three: Airplane

1.0 System Menu	36
1.1 Display	36
1.2 Buzzer Setting	36
1.3 Vibrator	37
1.4 Video Select	37
1.5 Stick Mode	37
1.6 Stick Direction	38
1.7 Stick Calibration	38
1.8 About	39
2.0 Model Menu	39
2.1 Model Select	39
2.2 Model Name	39
2.3 Model Copy	39
2.4 Model wireless copy	40
2.5 Model reset	40
2.6 Type Select	41
2.7 Trim System	41
2.8 Stick Position Switch	41
2.9 Device select	42
2.10 Device Output	42
2.11 Wing Type	43
2.12 Power Amplifier	45
2.13 Fixed ID	45

2.14 Sensor setting	46
3.0 Function Menu	47
3.1 Reverse Switch	47
3.2 Travel Adjust	48
3.3 Sub Trim	48
3.4 Dual Rate and Exponential	48
3.5 Throttle Hold	49
3.6 Throttle Curve	50
3.7 Differential	51
3.8 Balance	53
3.9 Gyro sensor	53
3.10 Governor	54
3.11 Aileron to Rudder Mix	55
3.12 Elevator to Flap Mix	55
3.13 Rudder to aileron/elevator Mix	56
3.14 Flap System	57
3.15 Aileron to Flap Mix	57
3.16 Program mix	58
3.17 Monitor	61
3.18 Fail Safe	61
3.19 Sensor View	61
3.20 Trainer	62
3.21 Timer	63

4.0 Upgrading	64
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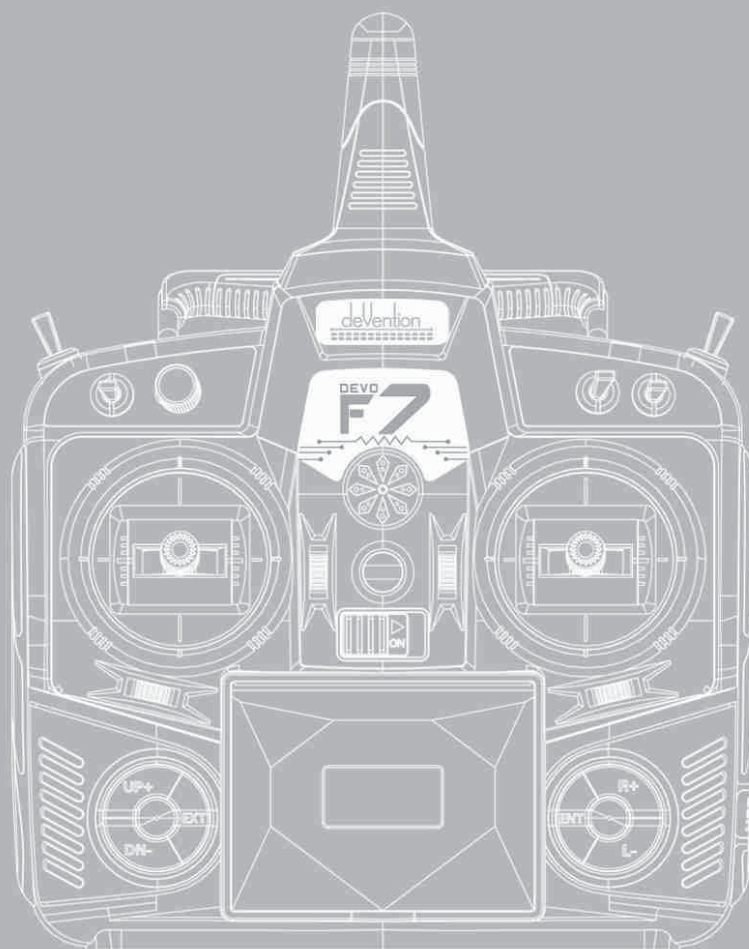
5.0 5.8G Transmitting Channel Selection	64
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deVention

DEVO F7

Part one General information

DEVO F7 takes 2.4 GHz Direct Sequence Spread Spectrum (DSSS) technology and 5.8ghz FPV and features automatic ID binding, automatic ID assignment, and also features fixed ID set by you yourself. The usage of wireless copy function keeps you away from the trouble in wire link-up. Two mode types of helicopter and airplane are available to meet your requirements for different models. 3.5"LCD display and 5.8G real time Image monitor, it offers you convenient operation, FPV makes the flight more easier. Online update via USB ensures a transmitter in hand not to be out of date and makes it full of vigour.



1.0 General information

1.1 Important statements

- (1) The transmitter is suitable for experienced pilots beyond 14 years old.
- (2) Flying the model aircraft in approved ground is a must.
- (3) We are not responsible for any safety caused by operation, usage or control once the transmitter is sold out.
- (4) We consign our distributors to offer technical support and service after sale. Please contact the local distributors for problem solutions caused by usage, operation, maintenance, etc.

1.2 Safety needing attention

- (1) Far away from obstacle and people.

RC aircraft in flights is uncertain of flight speed and status, which potential risk exists in when flying. Please keep your radio controlled aircraft far away from people, high buildings, high-tension line, etc, and avoid operating in rain, storms, thunder and lightening.



- (2) Away from humidity environment

Radio controlled aircraft should be kept away from humidity and vapor because it is composed of complicated precise electronic elements and mechanical parts.



- (3) Proper operation

Use original spare parts to upgrade, modify or maintain your equipment in order to assure its safety. Please operate your equipment within the range of functions permitted. It is forbidden to use out of the safety laws or regulations.



- (4) Safety operation

Operate your equipment according to your body status and flight skills. Fatigue, listlessness and mis-operation will increase the possibilities of accidental hazard.



- (5) Away from heat sources

The inside of the transmitter is composed of precise electronic components and mechanical parts. Keep it far away from heat sources and sunshine to avoid distortion, or even damage caused by high temperature.



1.3 Attention before flight

- (1) Ensure the battery packs of both transmitter and receiver are fully saturated.
- (2) Ensure both the throttle stick and the throttle trim of your DEVO F7 stay at the lowest positions before operation.

- (3) Strictly obey the order of TURN-ON and TURN-OFF before operation. When starting your flight, turn on your transmitter first, and connect the battery to the aircraft last. When turning off the aircraft, disconnect the battery first, and turn off your transmitter last. An upset in the order may cause your aircraft out of control. Cultivate a correct habit of turn-on and turn-off.
- (4) Ensure whether the directions and actions of all the servos in your RC aircraft are correct when executing commands of the transmitter. Using broken servos will result in unforeseen dangers.

2.0 Features

2.1 Transmitter DEVO F7

- (1) The DEVO F7 adopts 2.4 GHz Direct Sequence Spread Spectrum (DSSS) technology and features automatic ID binding and ID assignment. It can also be customizedly set as fixed ID code.
- (2) 5.8G real time image transmission.
- (3) USB online update makes you always enjoy the latest firmware.
- (4) Adjustability of hi-frequency output power enjoys more personality and friendly environment.
- (5) Wireless data transmission between two DEVO F7 helps experience the training function.
- (6) Up to 15-model data can be saved.
- (7) DEVO F7 adjusting the gyro sensitivity makes hovering flight and fancy flight in an easy way.
- (8) Super large LCD display features direct and convenient setting.
- (9) Shape design accords with human engineering and provides comfortable holding.
- (10) Both the length and tension of the sticks can be adjustable.
- (11) DEVO F7 can be freely switched among Modes 1, 2, 3, and 4.
- (12) DEVO F7 support Helicopter and Airplane. The Helicopter mode provides three flight modes, each of which can be freely set and its parameters can be personalizedly adjusted to meet the requirement for F3C or 3D aerobatic flight.

2.2 Features of DEVO-RX701

- (1) Adopts 2.4GHz Direct Sequence Spread Spectrum (DSSS) that features fast reaction and strong anti-jamming protection.
- (2) Double receiving circuits and signal switch automatically effectively assure the stability of receiving signal.
- (3) The single chip Microco as CPU provides super-strong analyzing ability.
- (4) The Receiver maintains the frequency and the ID memories when its changing a new battery pack with the transmitter powered on .
- (5) It can be customizedly set as fixed ID and automatic ID assignment.

3.0 Specification

3.1 DEVO F7 transmitter Specification

- Encoder 7-channel micro computer system
- Frequency 2.4GHz DSSS
- Output power ≤ 100 mW
- Current drain ≤ 500 mA (100 mW)
- Power supply 7.4V 800mAh
- Output pulse 1000 – 2000 Ms (1500Ms Neutral)
- Image Receive 5.8G
- Channel select 8 channel

3.2 Receiver specification

- Type 2.4GHz 7 channels
- Sensitivity - 105 dbm
- Frequency interval ≥ 4 M
- Weight 11.6 g
- Dimension 43X28X16mm
- Receiver Battery 4.8-6V 1,300mAh

4.0 Definition of DEVO F7

4.1 Panel definition



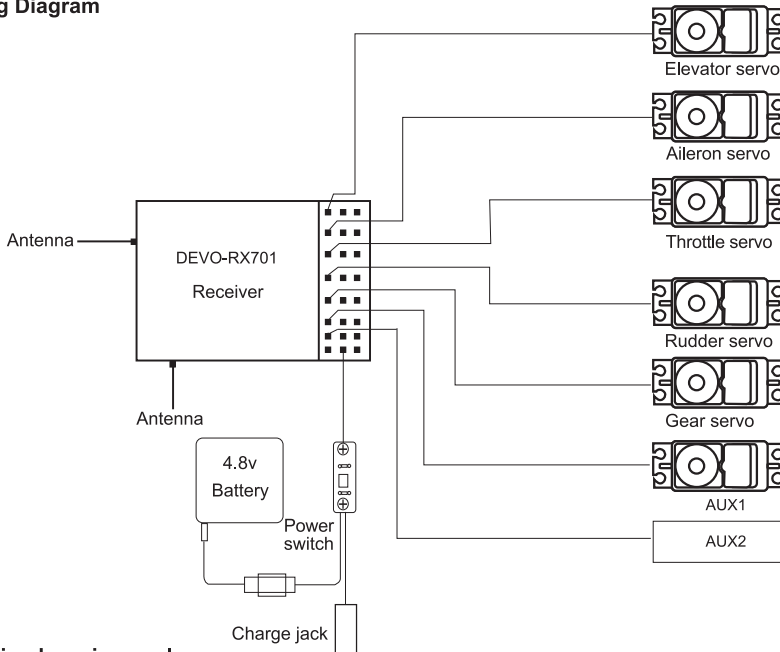
4.2 Rear definition



(1) Power Connector: input DC at 8-12V, 1000mA; Polarity: $\oplus \rightarrow \ominus$

(2) Digital Signal Converter socket (DSC): used for simulator flight practice via computer (You need software and its dongle which are available in hobby shops), and for training.

4.3 Wiring Diagram



4.4 Function keys in panel

There are 6 functional keys in the panel of DEVO F7. Below are the details:

- (1) EXT: Reset key. Press EXT to exit the main menu.
- (2) ENT: Confirmation key. Press ENT to access the system or the function mode.
- (3) UP+: Moves cursor up to the forward function item.
- (4) DN-: Moves cursor down to the next function item.
- (5) R+: Moves cursor up to increase the setting value.
- (6) L-: Moves cursor down to decrease the setting value.

5.0 Control Stick Adjustment

Stick adjustment control has two parts: the stick length and degree of tightness.

5.1 The stick length adjustment

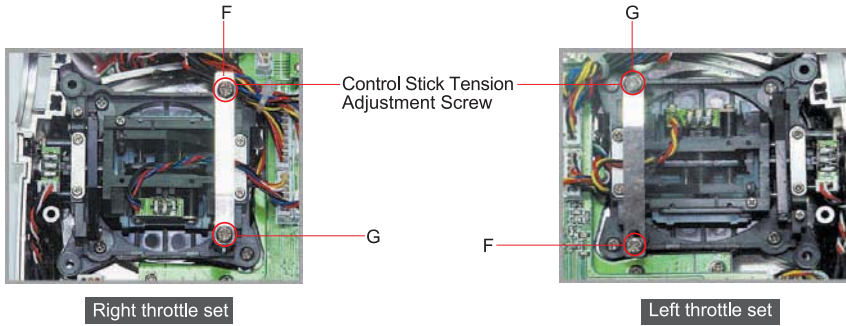
- (1) Prolong the stick length: Counter clockwise rotate the stick head until the length you hope, and then counter clockwise tighten the stick sleeve.
- (2) Shorten the stick length: Clockwise rotate the stick sleeve until the length you hope, and then clockwise tighten the stick head.

5.2 Stick Tension Adjustment

Use a cross screwdriver to adjust the rear cover screw show as below. Clockwise will increase stick tension and counter-clockwise reduce it.

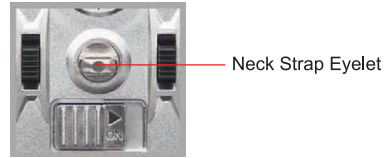


Find the tension adjuster spring for left and right hand throttle stick as shown below. Using a cross head screwdriver adjust the screw ringed in red below; clockwise will increase stick tension and counter-clockwise reduce it. Replace the transmitter rear cover after completion.



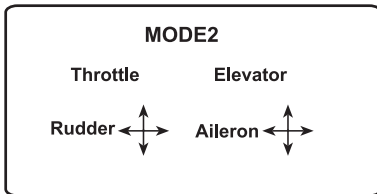
6.0 Neck Strap Usage

There is a concealed hook in the face panel of DEVO F7. It will pop up as you press the hook. The neck strap can be connected to the hook. The Hook located at the center helps to get optimal balance of the transmitter.

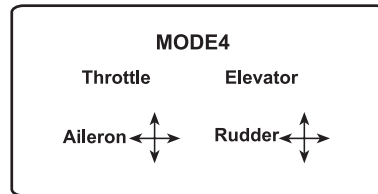


7.0 Stick Mode Switch

There are total four stick modes from MODE 1 through MODE 4. The left-hand throttle includes MODE 2 and MODE 4, and the right-hand throttle includes MODE 1 and MODE 3. Below is the sketch map:

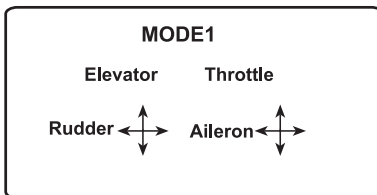


MODE 2

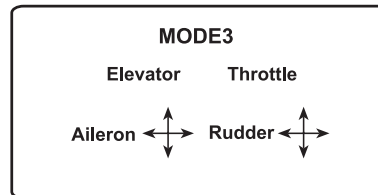


MODE 4

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



MODE 1



MODE 3

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

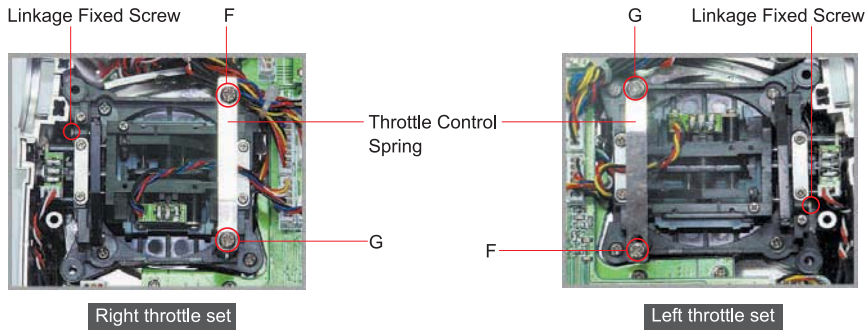
8.0 Switches between left-hand and right-hand throttles

Switching between left and right-handed throttle modes requires both a MECHANICAL and ELCTRONIC switch. It will work correctly only after both parts are completed. Please follow the steps below:

8.1 Right-hand throttle switched to left-hand throttle

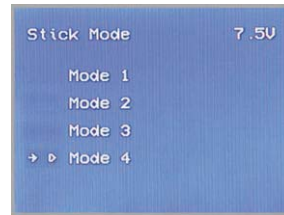
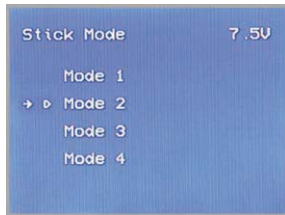
(1) Mechanical step

Remove the left lateral and right lateral non-slipping blocks, respectively, remove the 6 screws, and then rear cover to expose the base plate. The photo below shows the internal views of right and left hand throttle setups. Using a cross-head screwdriver loosen and remove, in order, the Linkage Fixed Screw, Screw F, Screw G and the Throttle Control Spring from the right throttle set, remount the parts removed into the left throttle set in the corresponding (rotated) positions shown below. Adjust the tension using Screw F to match your preferred setting. Replace the rear cover.



(2) The ELECTRONIC step

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 Selection Menu; Press UP or DN to move the cursor→to point to Mode 2 or Mode 4, press ENT to confirm, press EXT to exit. All saved model data will automatically be switched to be compatible with Mode 2 or Mode 4.



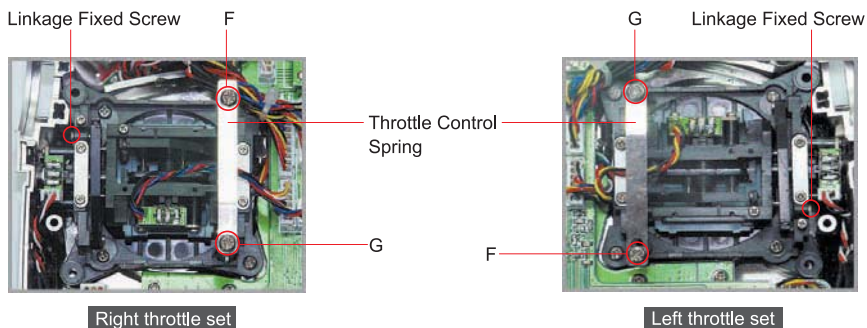
Once both the MECHANICAL and ELECTRONIC steps are successfully completed the transmitter is now ready for normal operation.

8.2 Left-hand throttle switched to right-hand throttle

(1) Mechanical step

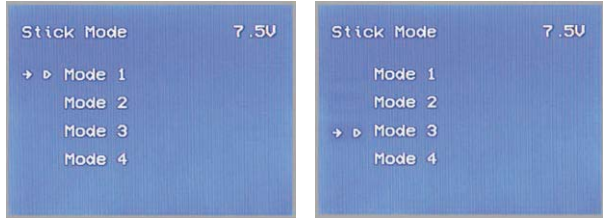
Refer to the above “Mechanical switch” to open the transmitter cover.

The photo below shows the internal views of right and left hand throttle setups. Using a cross-head screwdriver loosen and remove, in order, the Linkage Fixed Screw, Screw F, Screw G and the Throttle Control Spring from the left throttle set, remount the parts removed into the right throttle set in the corresponding (rotated) positions shown below. Adjust the tension using Screw F to match your preferred setting. Replace the rear cover.



(2) The data step

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 Selection Menu; Press UP or DN to move the cursor→to point to Mode 1 or Mode 3, press ENT to confirm, press EXT to exit.



All saved model date will automatically be switched to be compatible with Mode 1 or Mode 3.

Once both the MECHANICAL and ELECTRONIC steps are successfully completed the transmitter is now ready for normal operation.

Note: Pay careful attention to the force used when removing, replacing and adjusting the screws. Excessive force may damage them or the base plate.

9.0 Training function

Two DEVO F7 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:

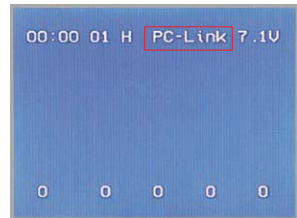
(1) Model data transmission

First step is to use the DEVO F7's wireless data transmission feature to transfer the teacher's main model data to the trainee's DEVO F7 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 F7 transmitters are needed for wireless data transmission.

(2) Training connection

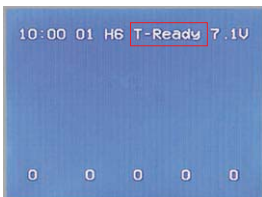
Insert the signal wire from the trainer's transmitter into the DSC socket of the trainee's transmitter. Turn on the transmitter and a linkage icon,PC-Link will be shown on the boot screen.

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 F7 display (see image right).



linkage icon

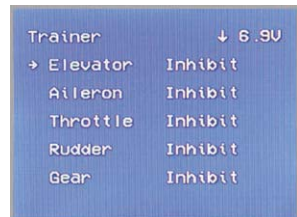
Turn on the power of the trainer's DEVO F7. Select the same model as the trainee (as transferred in the previous section) and briefly fly the aircraft to confirm the settings are good. Turn off the aircraft and turn off the trainer's DEVO F7 power. Insert the other end of the signal wire into the trainer's DEVO F7 DSC port and turn on the power once more, T-Ready will be shown in the trainee's DEVO F7 display (see image left).



(3) Trainer Function Channel Setup

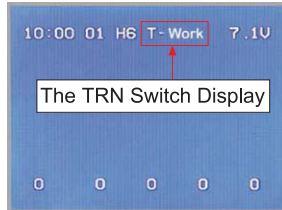
The trainee can aquire the control part or whole channel operation by setting the trainer's function channel.Here is the setup:

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,Gear, Pitch, Gyro channels available. Press R+ or L- to set Active or Inhibit for the choosed Channel.



(4) Training mode usage

The default setting is that the training mode switch is on the top left corner of the transmitter, named HOLD/TRN.



When flying, if the trainer operates the TRN switch, control is transferred control to the trainee; also, T-Work will be shown on the trainer's DEVO F7. The trainee's output data is displayed on the trainer's DEVO F7 screen. If the trainer operates the switch once more, the trainer regains control over all functions and channels.

Please check and familiarize yourself with the operation of the training mode before attempting flight or a training session in order to avoid miss-operation and damage/injury.

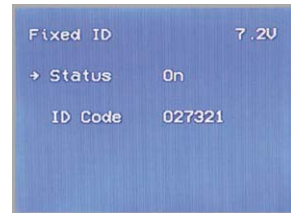
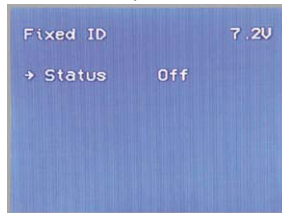
10.0 Customized fixed ID

Using the Fixed ID function allows users to create a unique relationship between transmitter model data and the corresponding model's receiver. It significantly speeds up the binding process and also prevents mistakenly flying an aircraft with the incorrect transmitter model selected.

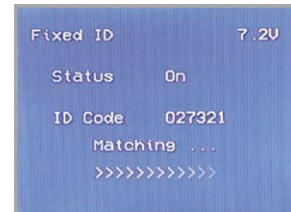
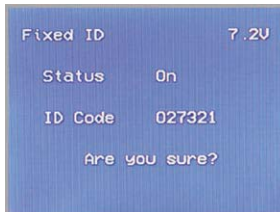
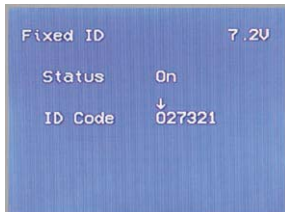
(1) Fixed ID setup

To start the Fixed ID setup it is important that the transmitter and receiver have successfully completed automatic ID binding process. Once the transmitter and receiver are paired a Fixed ID can be set as described below:

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 Fixed ID, press ENT to the Fixed ID setting interface.

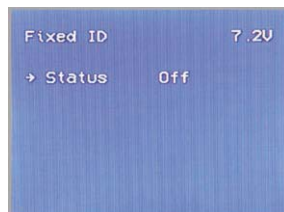


Press R+ or L- to set Status ON, and there is a Random Fixed ID display on the screen. Press DN to move the cursor → to point to ID Code, press ENT to move the cursor → to point to the first code of the Fixed ID. Press R+ or L- to change the Code; Press DN to move to next Code. Press ENT after finished setting, there is an inquiry "Are you sure?". Press ENT to confirm and execute the binding process. After finished binding the display will return to the Model Menu automatically.



(2) Cancelling/Resetting the Fixed ID

If you wish to change the receiver Fixed ID model back to random ID, insert the included BIND PLUG into the output terminal BATT before the receiver is powered on. Connect 5V DC power to the Throttle channel. The red LED of the receiver will flash slowly. Remove the BIND PLUG. The Fixed ID code has been cancelled.After the receiver's Fixed ID is reset it should also be reset in the Transmitter.



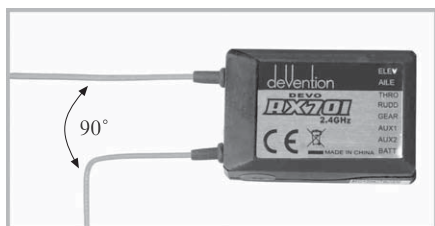
Refer to the instructions of Fixed ID setting above to the following interface. Press UP to move the cursor → to point to Status ON.

When Fixed ID Status ON, press R+ or L- to change ON to OFF. Press EXT to exit.

11.0 Receiver installation requirement

Below is some advice on how to install your equipment.

- (1) Using 10mm thick foam, wrap the receiver and attach it securely to the aircraft using a cable tie or strong rubber band. The foam will help protect the receiver
- (2) It is suggested to use rubber grommets and copper washers to isolate the receiver from vibrations. Do not over tighten the screws in order that the grommets are not damaged otherwise vibration absorption will be reduced.
- (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 the servos.
- (4) If installing additional switches, please install them far away from the engine exhaust pipe and other high vibration sources. Ensure all the switches move freely over their entire range.
- (5) Don't wrap the receiver antennas together or make them parallel; horizontal at 90° will give the best performance.



12.0 Installation requirement for battery pack

Open the battery cover of DEVO F7 transmitter, insert the battery to the fool-proofing plug correspondingly. The standard battery is 7.4V,800mAh lipo battery. To make sure the safety, please use the professional charger.

Warning: 1.Do not put the polarities of batteries in the opposite directions.

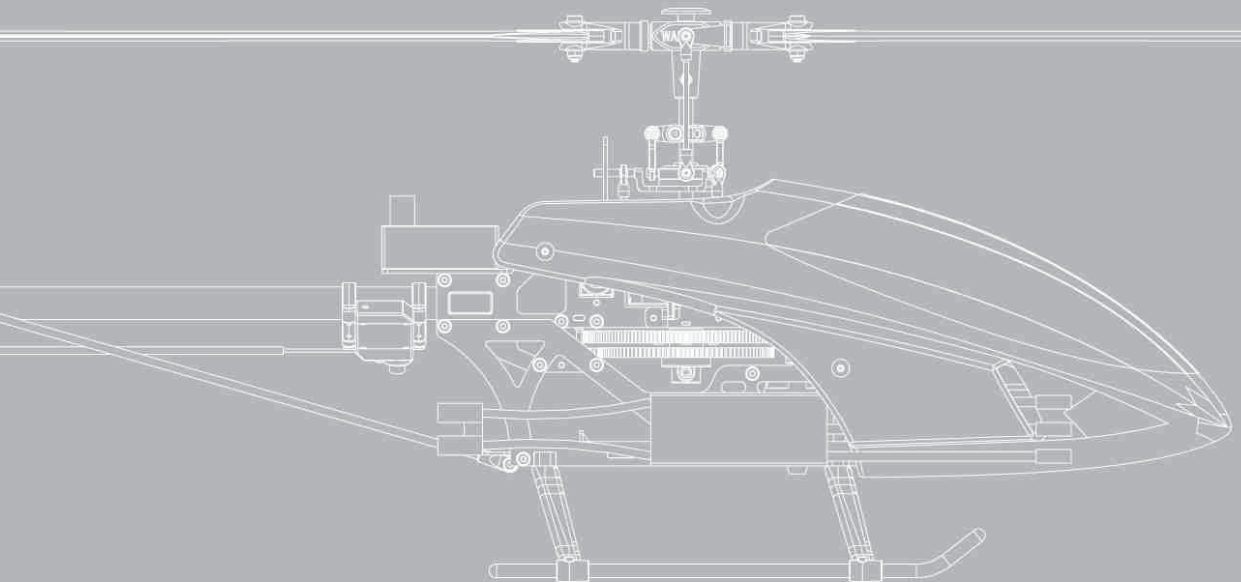
2.Please use the original battery pack and charger(The charger need to bug seperately).



Part two Helicopter

All the functional settings, which are relative to the operation system of DEVO F7 itself, are fully integrated in System Menu. They include Display, Buzzer, vibrator, Video Select, Stick Mode, Stick Direction, Stick calibration, and About.

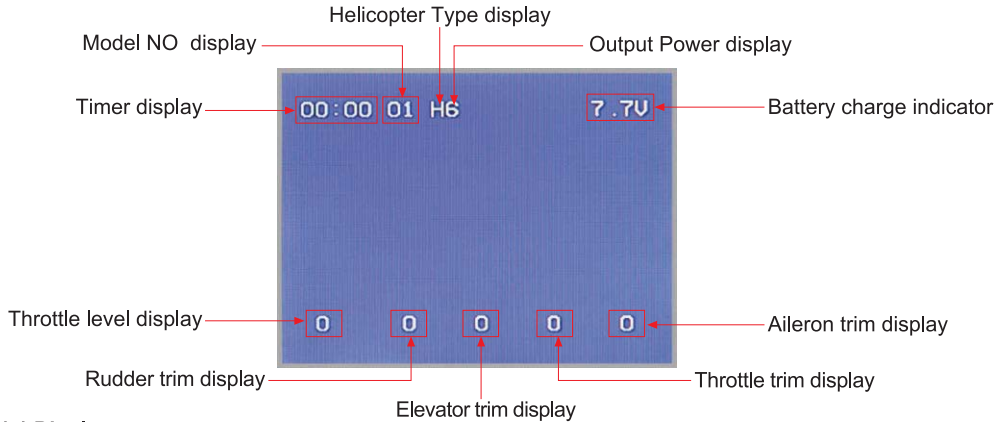
Setup your DEVO F7 transmitter for the best Helicopter performance with the following sections. Included are specific functions for rotor-craft features; Throttle curves, Pitch curves and Cyclic response are covered below.



1.0 System Menu

This section describes the settings which are specific to the operation of the DEVO F7 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 helicopter:



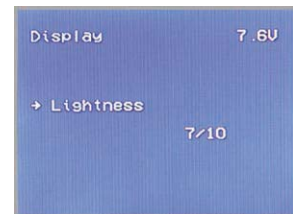
1.1 Display

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:

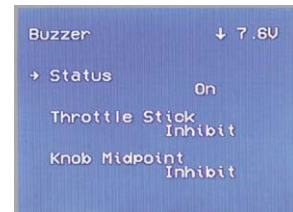
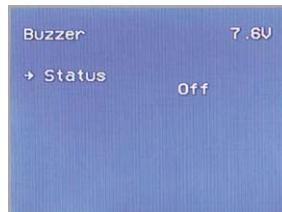
Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to System Menu, press ENT to System Menu; Press UP or DN to move the cursor→to point to Display, press ENT to the Lightness setting interface and use R or L to change the setting as desired.

Press EXT to exit.

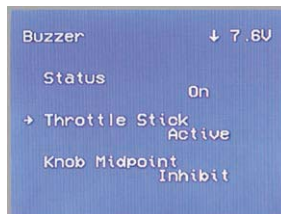
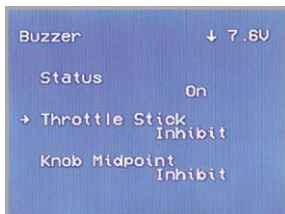


1.2 Buzzer Setting

- (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.

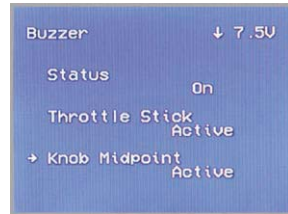
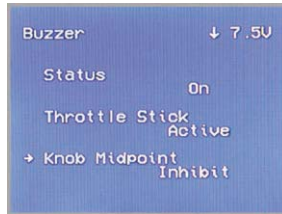


Setting:

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.

- (3) **Knob Midpoint:** With the "Status" item on, if the "Knob midpoint" setting keeps Active, there will be a buzzer at the midpoint position when turn the knobs. Please choose Inhibit if the buzzer isn't needed.

Setting: With the "Status" item on , press DN to move the cursor→to point to Knob Midpoint. Use R or L to change the status between Inhibit and Active. Active means to turn on Knob Midpoint buzzer while Inhibit means to turn of Knob Midpoint buzzer.

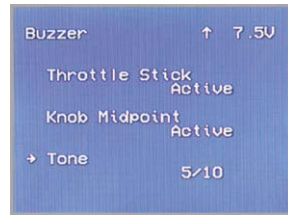


(4) Tone:

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.

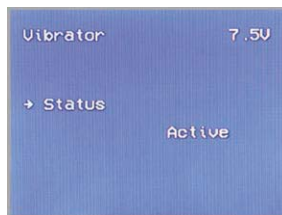
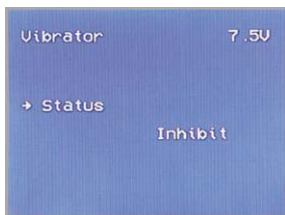


1.3 Vibrator

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.

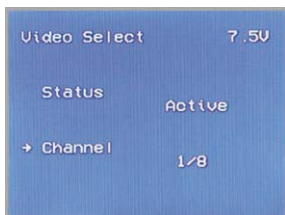
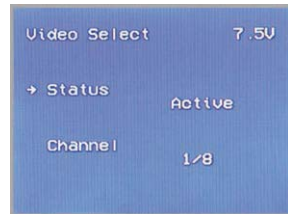
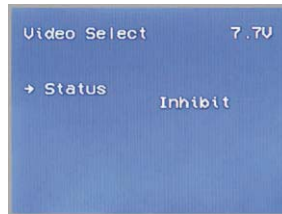
1.4 Video Select

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 select Active or Inhibit. Active means to start vibration, Inhibit means to turn off vibration. When choose Active, there will be an expanded list for the channels options.



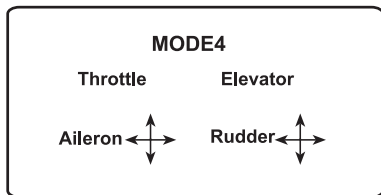
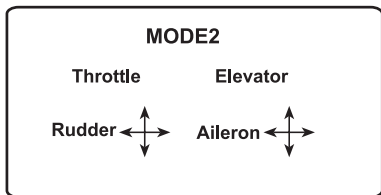
Channels options: Press DN to move the cursor→to point to Channel item as shown in the above interface. Press R or L to make the Number change between 1 to 8. With the 5.8G image transmission module, 1-8 channels could be chosen to receive the image signal.

Press EXT to exit after finished.

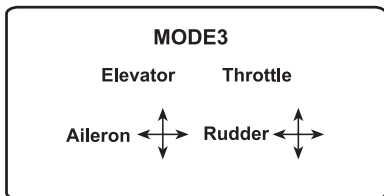
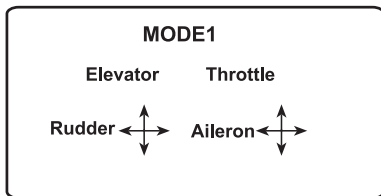
1.5 Stick Mode

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.



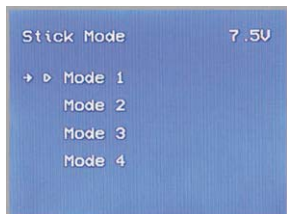
Mode 1 and Mode 3 are listed in right-hand throttle.



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.

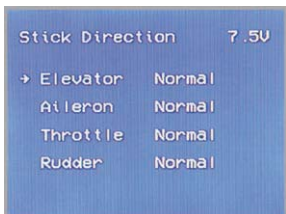
There are mode 1,mode 2,mode 3 and mode 4 for options.Press UP or DN to move the cursor→to point to desired item and then press ENT to confirm.

Press EXT to exit after finished.



1.6 Stick Direction

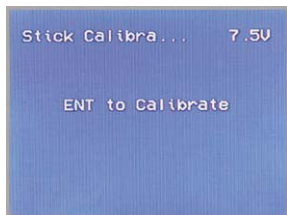
Setting: Press ENT to the Main Menu. Press UP or DN to move the cursor→to point to System Menu, press ENT to System Menu; Press UP or DN to move the cursor→to point to Stick Direction, press ENT to Stick Direction setting interface.



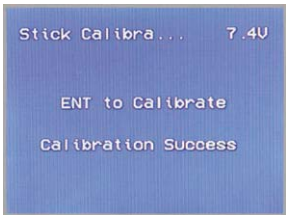
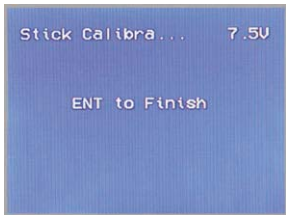
Stick Direction: There are Elevator, Aileron, Throttle,Rudder for options. Press UP or DN to move the cursor→to point to the desired item. Press R or L to change the settings of corresponding sticks. There are Normal and Reverse. The default setting is Normal.

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).