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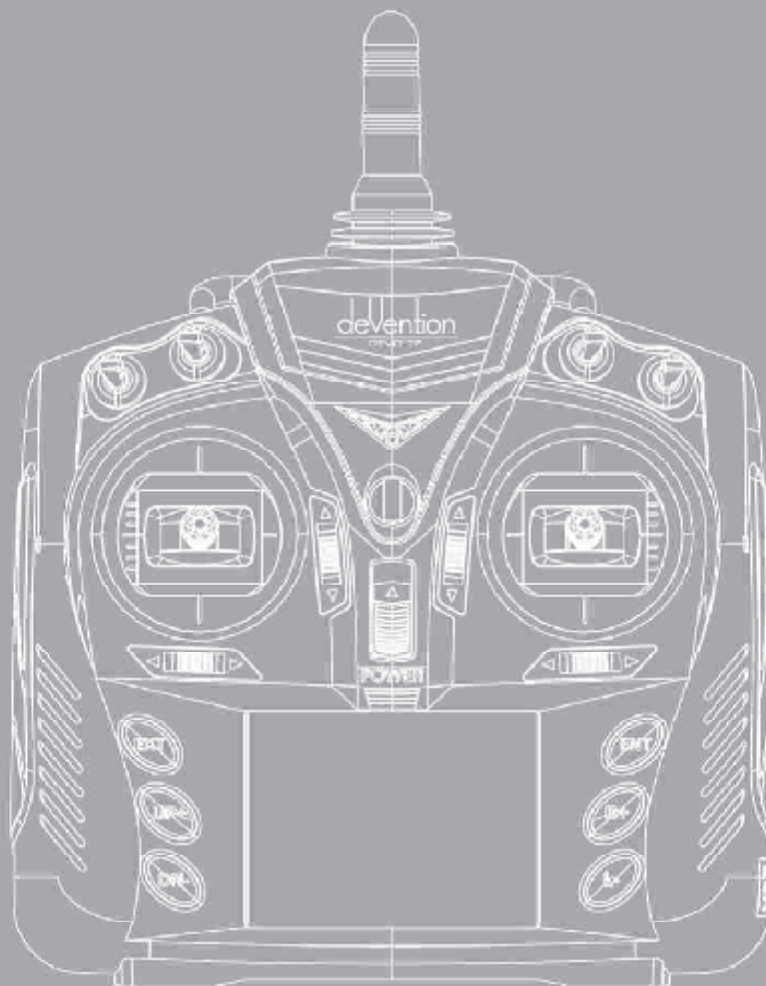
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devention

DEVO 7E

Part one General information

DEVO 7E takes 2.4 GHz Direct Sequence Spread Spectrum (DSSS) technology 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. Matrix LCD is used and it offers you convenient operation. Online update via USB ensures a transmitter in hand not to be out of date and makes it full of vigour.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

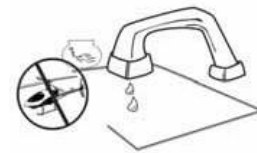
- (1) Far away from obstacle and people.

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 7E 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 DEVO 7E first, and connect the battery to the aircraft last. When turning off the aircraft, disconnect the battery first, and turn off your DEVO-10 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 7E

- (1) The DEVO 7E 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) USB online update makes you always enjoy the latest program.
- (3) Adjustability of hi-frequency output power enjoys more personality and friendly environment.
- (4) Wireless data transmission between two DEVO 7E helps experience the training function.
- (5) Up to 30-model data can be saved.
- (6) DEVO 7E adjusting the gyro sensitivity makes hovering flight and fancy flight in an easy way.
- (7) Shape design accords with human engineering and provides comfortable holding.
- (8) DEVO 7E can be freely switched among Modes 1, 2, 3, and 4.
- (9) DEVO 7E is suitable for helicopter and airplane. In the helicopter mode, there are two 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 7E transmitter Specification

- Encoder 7-channel micro computer system
- Frequency 2.4GHz DSSS
- Output power ≤ 100 mW
- Current drain ≤ 200 mA (100 mW)
- Power supply 5# Battery 4 X1.5V or NiMH 4 X1.2V 1,600 - 2,000 mAh
- Output pulse 1000 – 2000 Ms (1500Ms Neutral)

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 7E

4.1 Panel definition



4.2 Rear definition

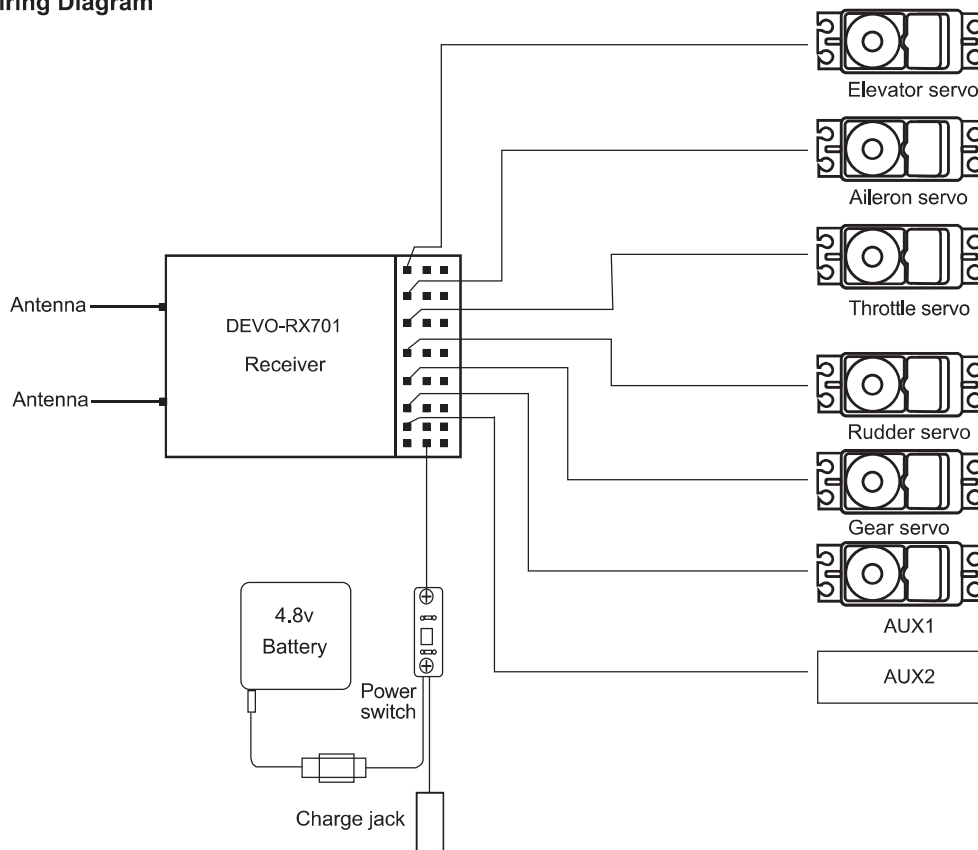


(1) Charge socket (CHG): input DC at 8-12V, 200 mAh; Polarity: $\oplus \rightarrow \ominus$

(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.

(3) MINI USB Socket: The Mini USB socket combined with PC machine can upgrade the device program.

4.3 Wiring Diagram



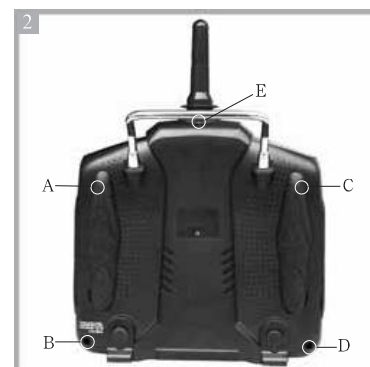
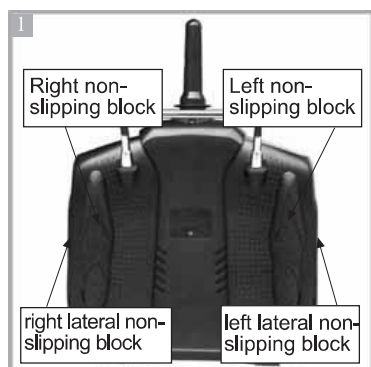
4.4 Function keys in panel

There are 6 functional keys in the panel of DEVO 7E. Below are the details:

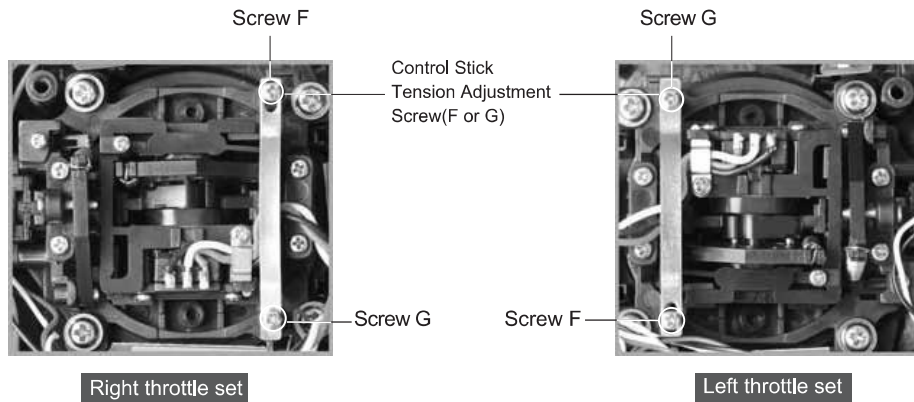
- (1) EXT: Reset key. Press EXT to exit the main menu.
- (2) ENT: Confirmation key. Press ENT to access the system or the function mode.
- (3) UP+: Moves cursor up to the forward function item.
- (4) DN-: Moves cursor down to the next function item.
- (5) R+: Moves cursor right to increase the setting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

5.0 Control Stick Adjustment

- 1 Remove the left lateral , right lateral left and right non-slipping blocks, respectively.
- 2 Remove the fixed screws A, B, C, D, and E, and then remove the base plate.

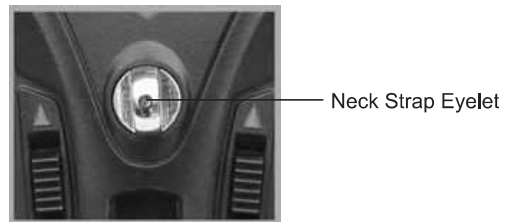


Below are shown the inside views of left and right throttle sets, respectively. Use cross screwdriver to loosen and remove Linkage Fixed Screw, Screw F, Screw G, and Throttle Control Spring in right throttle set, respectively, and then mount them in the corresponding positions in left throttle set. And then adjust the stick tension according to your habit.



6.0 Neck Strap Usage

There is a concealed hook in the face panel of DEVO 7E. 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.

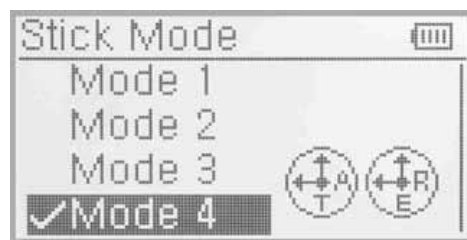


7.0 Stick Mode Switch

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 MODE 3 are listed in right-hand throttle.

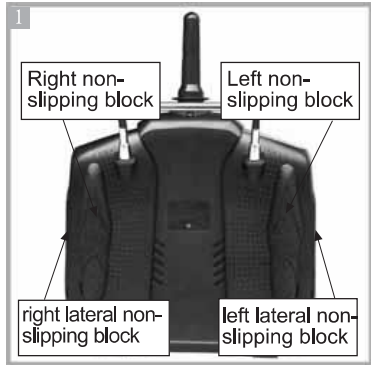
8.0 Switches between left-hand and right-hand throttles

The throttle switch between the left hand and right hand will be successful if both the MECHANICAL switch and ELECTRONIC switch are finished, separately. Below are the methods for switching:

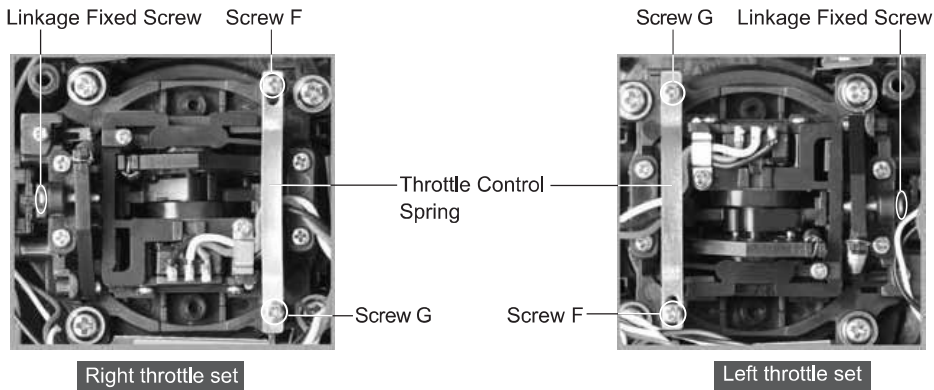
8.1 Right-hand throttle switched to left-hand throttle

(1) MECHANICAL switch

- 1 Remove the left lateral and right lateral non-slipping blocks and the left and right non-slipping blocks on the base plate, respectively.
- 2 Remove the fixed screws A, B, C, D, and E, and then remove the base plate.

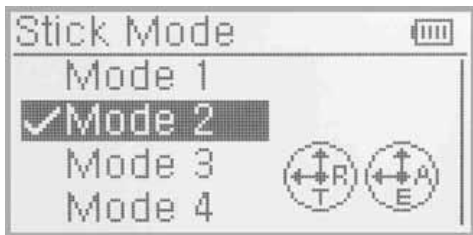


Below are shown the inside views of left and right throttle sets, respectively. Use cross screwdriver to loosen and remove Linkage Fixed Screw, Screw F, Screw G, and Throttle Control Spring in right throttle set, respectively, and then mount them in the corresponding positions in left throttle set. And then adjust the stick tension according to your habit.



(2) The ELECTRONIC switch

In the main interface, press ENT to access the main menu; Press UP\DN to choose "system menu"; Press UP\DN to choose "stick model" and access via "ENT" key, or to choose "model 2\4" and confirm via ENT key, make a mark "✓" before the choosed model. Press EXT to exit after setup complete.



Through the mechanical and electronic switch, the right hand throttle switch to the left hand successfully and can be used normally.