Setting options for PPM output (configurable in ***„System ->Configuration"***):

•PPM8 neg./pos.

•PPM16 pos.

•Telemetry EX

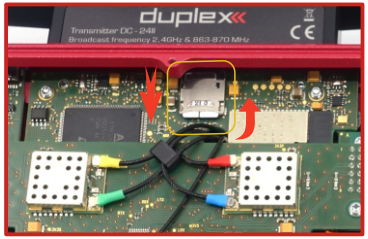
5.6 Shielding antennas

Warning: *If you are operating a model with a transmitter do not shield and avoid contact of the transmitter antenna with your body. This might increase likelihood of range problem.*

5.7 Change SD Card

Disconnect the battery plug .

To open the SD card holder, use a fingernail to push the metal frame to the down and then lift it carefully. The micro SD card can now be removed. For installation, proceed in the reverse order.



6 Hardware of the DS-24II Transmitter - Description

6.1 Control Stick

6.1.1 Description of the Adjustment Screws for the gimbal

The adjustment screws of the gimbals are labeled with capital letters (**see fig. 6.01**). These will be further used in the descriptions of adjusting the individual functions of the gimbals.

A schematic representation of the adjustment screws and their functions can be found in **fig. 6.03**. To adjust the gimbals, you will need an allen key **(a)** along with a magnetic key **(b)** (**see fig. 6.02**), which is included in the package.

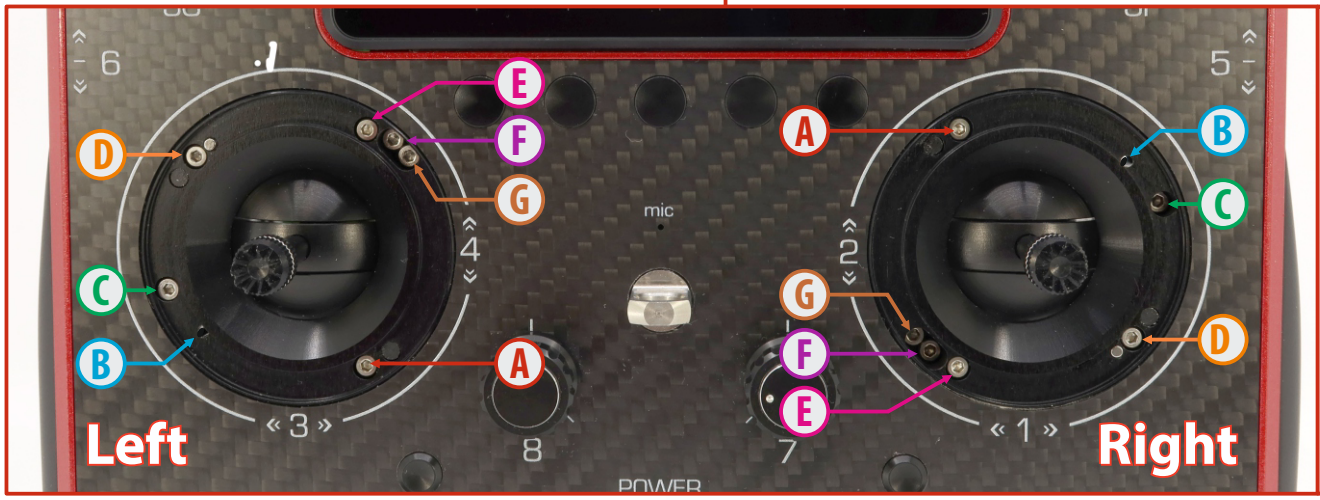


Fig. 6.01

Fig. 6.02

Description of the Functions of Individual Adjustment Screws for the Cross Controller

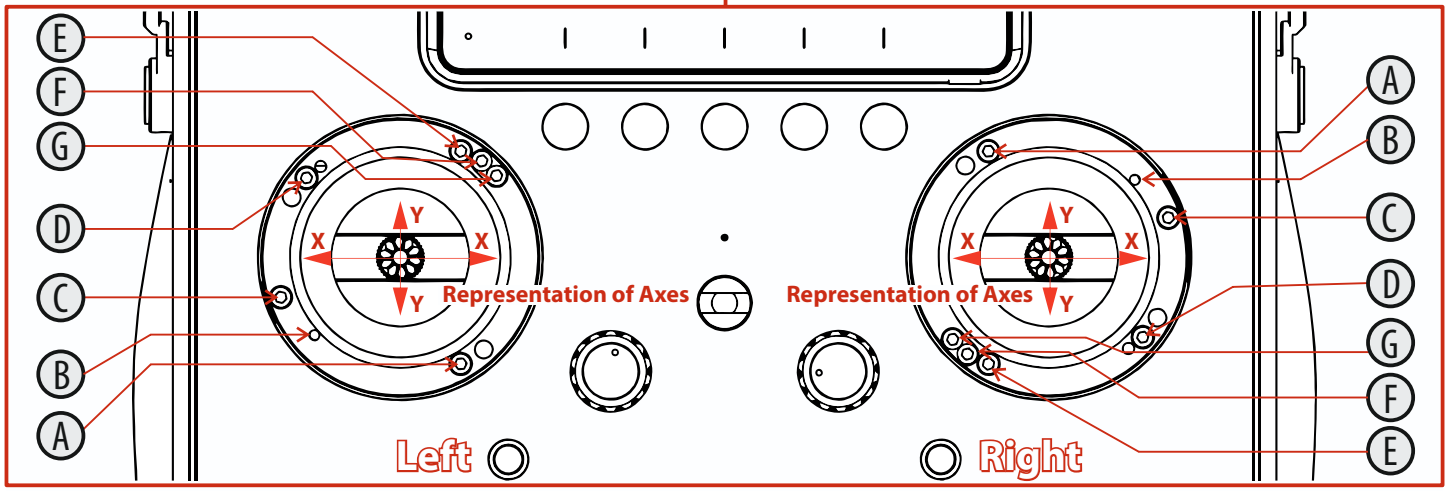


Fig. 6.03

A - Adjustment of the throttle stick range of motion downwards

B - Adjustment of the centering spring force in the X axis (left/right)

C - Activation of the throttle stick with the setting of the locking mechanism (brake) and centering limitation using a spring

D - Adjustment of the centering spring force in the Y axis (up/down)

E - Adjustment of the throttle stick range of motion upwards

F - Adjustment of the ratchet locking mechanism (brake/throttle)

G - Adjustment of the smooth locking mechanism (brake/throttle)

6.1.2 Adjustment of the Length of the gimbal Sticks

The gimbals sticks are height-adjustable, allowing you to comfortably set the length of the stick. The stick is divided into two parts. To adjust the length of the stick, proceed as follows:

1. Grasp the upper part of the stick (with knurling) and loosen the tightening (counterclockwise).
2. Unscrew the stick to the desired length.
3. Rotate the lower part of the stick clockwise to tighten it against the lower part.
4. Secure the upper part against the lower one by rotating them against each other (known as counter-tightening).

Warning:
If you have a stick with a switch/button, you should loosen the fastening screw in the stick before adjusting the height to avoid twisting the cable. For more information, refer to the section ***"Mounting the Stick with Switch/Button into the gimbal."***

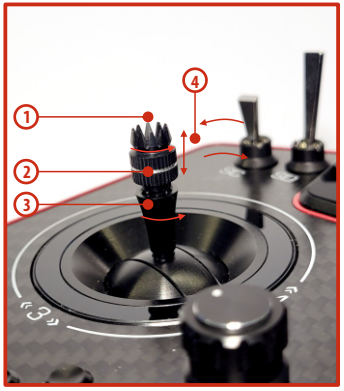


Fig. 6.04

6.1.3 Adjustment of the Centering Spring Force

If you want to change the resistance force when moving the gimbals, you can adjust the spring force in each axis separately.

1. Place the magnetic key **(a)** on the cover ring **(b)** of the gimbal and remove it from position **(c)**.

Fig. 6.05

Fig. 6.06

Fig. 6.07

2. Adjustment of the X Axis (Right/Left)

Insert the allen key (the other end of the magnetic key) into the hole **"B" (if it is a throttle gimbal, the stick should be approximately in the center position during adjustment)**, behind which is the screw for adjusting the ***"centering spring"***.

- Turning the screw clockwise increases the force of the spring, resulting in greater resistance when moving the cross controller in this axis (**see Fig. 6.08**).
- Turning the screw counterclockwise decreases the force of the spring, resulting in less resistance when moving the cross controller in this axis (**see Fig. 6.08**).

Note:
It is recommended to determine the resistance offered by the spring through gradual movement along the X axis (during adjustment).

Fig. 6.08

Caution:
Tighten the screws with care to avoid damaging the gimbal.

3. Adjustment of the Y Axis (Up/Down)

- Insert the allen key (the other end of the magnetic key) into screw **„D"**, which is designated for adjusting the ***"centering spring"*** in the Y axis.
- Turning the screw clockwise increases the force of the spring, resulting in greater resistance when moving the gimbal in this axis (**see Fig. 6.09**).
- Turning the screw counterclockwise decreases the force of the spring, resulting in less resistance when moving the gimbal in this axis (**see Fig. 6.09**).

Fig. 6.09

Note: *It is recommended to determine the resistance offered by the spring through gradual movement along the Y axis (during adjustment).*

Caution: *Tighten the screws with care to avoid damaging the gimbal.*

4. Place the cover ring back onto the gimbal so that its groove **(e)** fits precisely over the locking pin **(d)** (in the area of adjustment screw "*„D"*) on the gimbal. Visually, the ring should lie in line with the front side of the transmitter*)*.

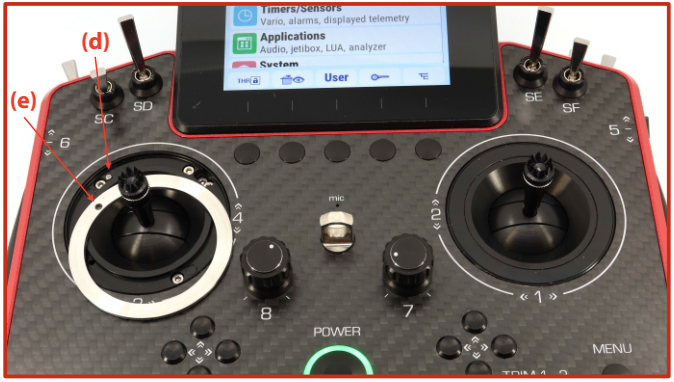


Fig. 6.10

6.1.4 Adjustment of force and method of arresting

At the transmitter, it is possible to set smooth locking of the stick, ratchet locking, or a combination of both. Each type of locking is adjusted with a different screw.

1. Place the magnetic key **(a)** on the cover ring **(b)** of the gimbal and remove it from position **(c)**.

Fig. 6.11

Fig. 6.12

Fig. 6.13

2. Insert the ***"allen key"*** into the adjustable screw **„F"** and loosen the locking step by turning it counterclockwise (if it is activated).

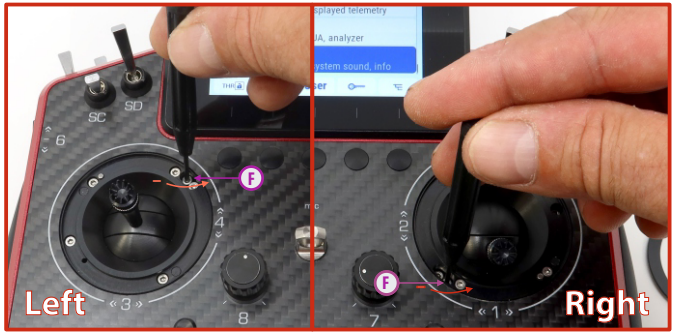


Fig. 6.14

3. **Setting Smooth Locking (Brake/Throttle):**
Insert the allen key into screw **„G"**.
Turning the screw clockwise increases the strength of the smooth brake. Resulting in greater resistance when moving the gimbal in this axis (**see Fig. 6.16**).
Turning the screw counterclockwise decreases the strength of the smooth brake. Resulting in less resistance when moving the gimbal in this axis (**see Fig. 6.16**).

Note: When fully loosened, the head of the screw **(a)** must not be higher than the seating surface of the cover ring **(b)** (**Fig. 6.15**).

Obr. 6.15

Note: *It is recommended to determine the desired locking by gradually moving in the adjusted axis (during the adjustment).*

Caution: *Tighten the screws with care to avoid damaging the gimbal.*

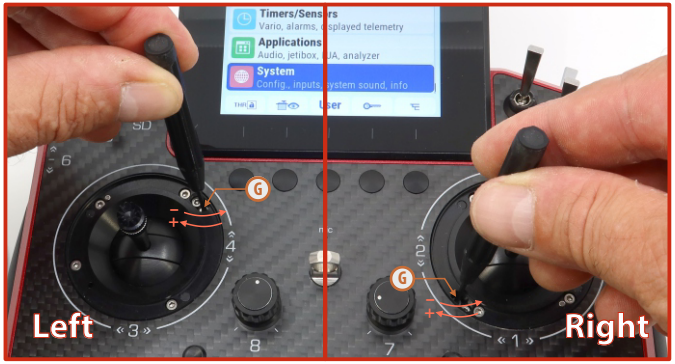


Fig. 6.16

4. **Setting the ratchet Locking (Brake/Throttle):**
Insert the allen key into screw **„F"**.
Turning the screw clockwise increases the force of the ratchet brake. Resulting in greater resistance when moving the cross controller in this axis (**see Fig. 6.17**).
Turning the screw counterclockwise decreases the force of the ratchet brake. Resulting in less resistance when moving the cross controller in this axis (**see Fig. 6.17**).

Note: *When fully loosened, the head of the screw **(a)** must not be higher than the seating surface of the cover ring **(b)** (**Fig. 6.15**).*

Note: *It is recommended to determine the desired locking by gradually moving in the adjusted axis (during the adjustment).*

Caution:
Tighten the screws with care to avoid damaging the gimbal.

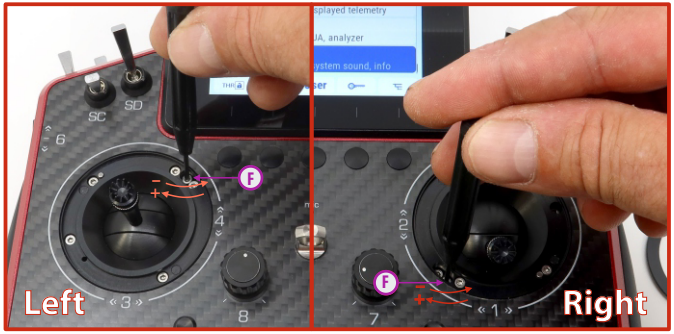


Fig. 6.17

5. Place the cover ring back onto the gimbal so that its groove **(e)** fits precisely over the locking pin **(d)** (in the area of adjustment screw "*„D"*) on the gimbal. Visually, the ring should lie in line with the front side of the transmitter.*)*.

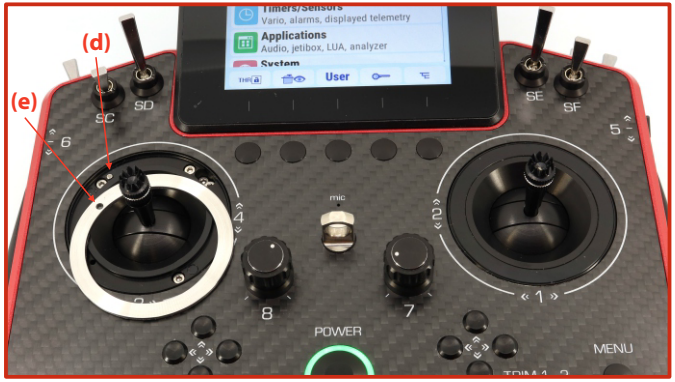


Fig. 6.18