

QuickStart Guide for MPX RR models & MPX Cockpit SX

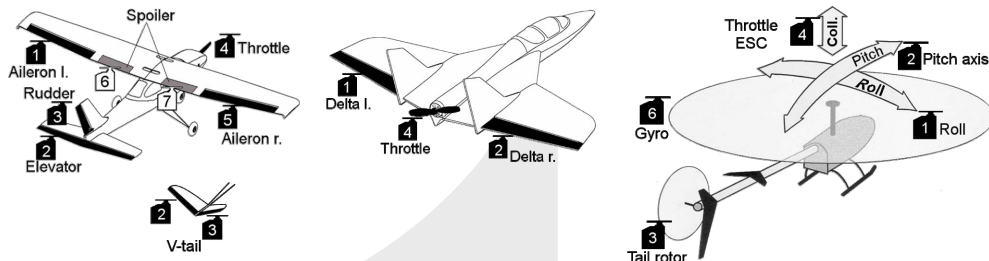
1st MPX RR MODEL

I. Install Multiplex receiver in the model

Follow the instructions supplied with the model.

II. Connect the servos according to the Multiplex sequence

Servo sequence:



Note: The servo assignment is not always clear at the early stage. The important point is to assign the speed controller correctly, to avoid any danger of the motor starting up accidentally. The control surface servos can be assigned later.

III. Install the battery (do not connect it!) and check the Centre of Gravity

Observe the position stated in the model instructions.

2nd COCKPIT SX M-LINK RADIO CONTROL SYSTEM

I. Prepare the Cockpit SX transmitter

I.I. Transmitter with model memory

I.II. Transmitter with empty model memory

- Download Multiplex Launcher from MPX site
- Install Launcher on PC

-> move to II.

- Use Launcher to transfer the memory contents to the transmitter

II. Select the model memory at the Cockpit SX

At the „GO TO“ point of the (MEMO) menu:

Use the round 3D digi-adjuster in the centre of the transmitter.
(Functions: left ⤴ & right ⤵ and press ↓)

- 1x ⤴ to MENU, 1x ↓ (SETUP appears)
- 4x ⤴ to MEMO, 1x ↓ (GO TO appears)
- 1x ↓ (0 appears, flashing)
- ⤴ Select model ↓ (concludes select process)

→ Memory name and transmitter voltage displayed; Select process concluded.

III. Set stick mode (which stick controls what?)

Note: You will find a list and explanation of the stick modes on the back under “Notes & explanations, Selecting the stick mode”.

- 1x ⤴ to MENU, 1x ↓ (SETUP appears)
- 1x ↓ (MODEL appears), 1x ↓ (MODE appears)
- 1x ↓ (number, flashing)
- Select MODE 1x ↓ (Select process concluded)

→ Switch transmitter off!

3rd BIND TRANSMITTER TO RECEIVER

I. Prepare the transmitter for binding

- Hold the 3D digi-adjuster on the transmitter pressed in and switch the transmitter on.
- Now turn the 3D digi-adjuster to the right ⤴ as far as BIND, then press the button ↓ (BIND appears).

→ Binding procedure started, beep sequence emitted, transmitter LED flashes fast

II. Prepare receiver for binding

- Switch receiver ON, or connect the battery.
- Press the SET button on the top of the receiver for at least ten seconds until the LED goes out.
- Only now release the SET button.

→ Binding procedure initiated, the LED on the receiver flashes fast.

Note: transmitter power is greatly reduced for the binding process; reduce the distance between the model and the transmitter to 50 cm or less.

III. Binding procedure concluded

Once bound, the transmitter and receiver automatically switch to regular operation: the LEDs flash slowly, and the transmitter screen displays the name of the selected model and the transmitter battery's voltage.

4th CONTROL SURFACE NEUTRAL POSITIONS

Switch on the transmitter and receiver, and check the neutral position of the control surfaces.

This is accomplished by moving all the sticks to the neutral position, with the exception of the throttle (motor off). Push the right-hand slider forward (if using one of the stick modes 5 - 8 pull it back, as this is the throttle), and select Flight Phase 2. Use key to loosen the grubscrews in the swivel connectors, set the control surfaces to neutral, then re-tighten the screws firmly.

Exception: if your model is the Multiplex FunCopter, select Flight Phase 1, and follow the instructions in the section entitled “Checking the working systems, settings”.

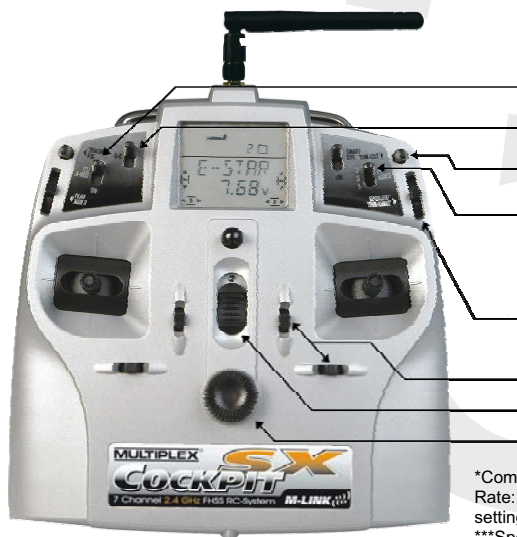
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5th EXPLANATION OF SERVO FUNCTIONS, AND HOW TO CHECK THEM

Note: If any control surface moves in the wrong “sense” (direction), return to Section 1. “Connecting servos according to the Multiplex sequence”.

	centre off	left back	right forward
Ailerons:	in line with wing	left up right down	left down right up
Roll:	Swashplate exactly level	Swashplate tilt to the left	Swashplate tilt to the right
Rudder:	in line with fin	moves left	moves right
Yaw:	undefined!	tail rotor pushrod move towards	tail rotor pushrod move forward
Elevator:	horizontal	moves up	moves down
Pitch axis:	Swashplate exactly level	Swashplate tilt forward	Swashplate tilt towards
Throttle:	motor off	Caution: half-throttle	Caution: full-throttle

6th FUNCTIONS / MIXERS OF MPX MODEL MEMORIES



- | | |
|----------------------------|-----------------------|
| Airplane | Helicopter |
| Combi-Switch* | Flight phase 4: Hover |
| Dual-Rate** | Dual-Rate** |
| THR-CUT | no function |
| Emergency throttle CUT | |
| Flight phases for gliders: | Flight phases: |
| 3:speed | 3:Hover |
| 2:normal | 2:Cruise |
| 1:thermal | 1:Hover |
| right-hand slider: | no function |
| Spoiler*** or Throttel | |
| | Trim buttons |
| | On/Off switch |
| | 3-D digi-adjustor |
- *Combi-Switch: same-side rudder mixed in with ailerons. **Dual-Rate: aileron / elevator / rudder, switches between two travel settings.
***Spoiler: ailerons up or down acting as landing aid.

7th PREPARATION, FIRST FLIGHT

- Move the Dual Rate switch to the bottom position to give reduced control surface travels, then select Flight Phase 2 for a fixed-wing model, or Flight Phase 1 for a helicopter
- Use Fail-Safe (See “Notes & explanations, Fail-Safe”).
- It is essential to carry out a range-check before the first flight, as described in the radio control system instructions.

- Allow the model to gain height briskly immediately after launch, so that you can check the model’s trims (see “Notes and explanations, trimming”).

All of us in the MULTIPLEX team hope you have many hours of pleasure and success flying your new model.

8th NOTES & EXPLANATIONS

I. Selecting the stick mode

The stick mode determines which transmitter control operates the functions aileron, elevator, rudder, throttle and spoiler. Modes 1 - 4 are available for model helicopters, and Modes 1 - 8 for fixed-wing models. If you are a beginner, we recommend that you assign THROTTLE to one of the sticks.

Stick mode table:

Mode	left stick		right stick		right slider	Mode	left stick		right stick		right slider
	↔	↑↓	↔	↑↓			↔	↑↓	↔	↑↓	
1	Rudder	Elevator	Aileron	Throttle	Spoiler	5	Rudder	Elevator	Aileron	Spoiler	Throttle
2	Rudder	Throttle	Aileron	Elevator		6	Rudder	Spoiler	Aileron	Elevator	
3	Aileron	Elevator	Rudder	Throttle		7	Aileron	Elevator	Rudder	Spoiler	
4	Aileron	Throttle	Rudder	Elevator		8	Aileron	Spoiler	Rudder	Elevator	

Once you have decided on a stick mode, you must disable the centring spring on the throttle stick to prevent it returning to the neutral position automatically. See page 12 of the Cockpit SX operating instructions for directions.

II. Fail-Safe

Use the transmitter to set all the servos (and the speed controller) to the neutral position, then briefly press the SET button on the receiver (0.5 to 1 second). This action stores the current servo positions, and the LED flashes in confirmation.

→ If interference affects the radio link, the servos run to these defined positions until reception is restored.

III. Trims

The trim buttons are positioned close to the sticks. They are used to adjust the servo centre positions / control surface neutral positions.

This may be necessary if, for example, your model climbs, dives or veers to one side instead of flying straight, even though you are holding the sticks at centre. Correct the model’s trim by moving the trims in the direction opposite to the direction of flight which you wish to correct. The settings are automatically stored.

IV. What to do if “THROTTLE>0” appears on the screen?

Throttle-check is a safety query for the throttle control; the function prevents the motor starting up accidentally when you switch the transmitter on.

The transmitter’s screen displays “THROTTLE>0” until you move the throttle control back to the Idle position. Only then is the transmitter ready for use.