

Rondo Quick Guide

Attention! Please note: this quick guide is a summary of the detailed manual and is intended to be used for a quick start. It does not replace the detailed manual. We strongly recommend you minutely study the entire manual.

1. Connect Rondo as shown in manual (diagrams). Do not connect the tail Servo yet!
2. Switch on transmitter and receiver and connect operating unit.
3. Scroll to menu item Channel Monitoring and set travels to +-80 each for elevator, tail and aileron. Set Pitch to +-100 and Gain Channel(s) to 100%. This is roughly equivalent to +/-50% servo travel in JR transmitter. Arrow down is start/landing mode; arrow up is flying mode. We strongly recommend to ALWAYS start and land in the start/landing mode as doing so in the flying mode could cause falling over. It is recommended to put the Gain Channels on transmitter on switches and set the values with servo limiter on the transmitter side. We discourage using a slider for the Gain Channels.
4. Scroll to Servo Type Selection and select servo type. 760us is only intended for special Futaba servos with short impulse rate used for GY601 or GY611.
5. Scroll to Swash Plate Configuration and select Swash Plate Type. Do not configure the Dynamic Swash Plate section yet.
6. Use Servo Center to center all servos. The servo levers should be angular, the rod system parallel and the blades should be at 0° deflection. Careful and fastidious adjustment is very important here! In case trimming is needed later on this will also be done using this menu item.
7. Adjust Servo Reverse in RONDO
8. Tail/SwPI Ranges: This is where the maximum servo amplitudes are set. For tail both sides should have roughly the same values; Pitch around +-10° for trainer and 3D; less for scale and beginners. For beginners +9 and -3 should be sufficient. The cyclic amplitude (Aileron/Elevator) should be around 7-8° in every direction.
9. Test if the gyros work in the correct direction and see if they counteract manual movement of the helicopter. This has to be tested for all three axes and corrected in Gyro Reverse if needed. Every reverse is followed by a short re-calibration which takes a few seconds.
10. In Gain Channel Setting select if one or two gain channels are present and how they shall be occupied. If there are two gain channels the setting "Tail" for Gain1 and "SwPI" for Gain2 is chosen. Each channel is then used to set sensitivity AND mode switching for the respective function! In case of just one Gain Channel is used (setting "Both ---"), Gain1 will switch the flight phases and the gain values for tail and swash plate!
11. Return to Swash Plate Configuration. Set Dynamic SwPI. ON and check function under Dyn. SwPI. Dir and change direction if needed. While in this menu the swash plate is tilted. Move the helicopter about its vertical axis. The swash plate tilt should counteract the performed rotation for a short moment.
12. Save all settings with Save and Reset Handling or use Quicksave: Press both the right and left button at the same time.
13. The first flight: While in start/landing mode take off and hover. In case trim corrections are needed, land and set them through rod system or Servo Center.
14. Increase value(s) for gain channel(s) until just before swinging and decrease by a small amount. Be careful when setting the swash plate sensitivity! A swinging swash plate is very hard to control so it is best to increase values very slowly and decrease them a bit as soon as slight swinging occurs. If you notice swinging during the start land your helicopter immediately and reduce the gain channel(s) accordingly. When using just one gain channel either the tail or the swash plate will start swinging first. To be able to further increase the gain value, a negative offset can be set to the related swinging part. E.g.: If the tail starts swinging first, land and give a Tail Offset of -10%. Start again and increase the gain value. This action is repeated until the complete system is setup to short before swinging
15. Switch to flying mode and increase sensitivity in the same way.
16. In case the tail engages irregularly the hovering center can be learned through switching the Gain1 channel 4x. While doing so please hover smoothly and wait for the tail to twitch slightly. This confirms the successful learning after about 3-5 seconds. Learning is however not possible if you steer the tail during the learning phase.
18. Fly flybarless and enjoy Rondo!