Reisenauer - SUNRISE – Controller - Info

Each controller has been checked by us and programmed using the enclosed ProgCard.

If the motor fails to start with you:

1. The transmitter channel must be programmed at least on 100%+ and 100%-.
2. As an immediate measure, it may be helpful to program the center of the channel at +50%.
3. Best of all, read in the paths with the help of Progcard II.
4. Be sure to remove the propeller before programming.
5. Connect the Sunrise Controller with the left slot in the card.
6. The patch cable from the card slot has to be on the right to the receiver.
7. Transmitter stick on „OFF“, then turn on the transmitter. (For Futaba the speed channel must be switched to reverse eventually.

Connect the controllers with the flight battery and the motor – the receiver battery is only with Opto-control necessary.

Navigate on the card with pushbutton top left by row from **left to right**.
Navigate on the card with pushbutton bottom left for **line forwarding**.
Right pushbutton is enter-function.
While pressing short at the same time on the two left keys you get on the second page (lower blade) of the card - **LED confirms that with flashes.**

Setting the range from stop to full speed:
Choose in the row the menu point “Special-functions” (upper blade), then put the transmitter stick on “motor off” and confirm with “Enter”.
The stop-neutral-point (between speed and brake) has to be at least 20 % higher if you want to fly with the **brake!**
So when **programming with the brake** don´t press the stick all the way down, but about 1/4th forward and only then press ,,Enter''.
Select menu point ,,**Full Speed**'' and put the stick on full speed (better 2 mm before) and confirm with “Enter”.
Then take the stick back again, otherwise the controller will go back with a new connection in the manual programming mode.
Then remove all batteries and connect the controller with the receiver.

Startup
For the subsequent startup of the transmitter take care that **motor is on “Off”**.
Then turn on the transmitter and plug in the batteries for receiver and motor.
Now give a few mm speed, set the stick back and the readiness for starting will be signaled with beep tones.
If the motor should not operate with a transmitter stick but with a **switch**, proceed analogously.
When using the **brake**, put the negative way from the switch just on **60 % - on the transmitter channel.**
Increase after programming with the card to at least 100 % to activate the brake.

If the motor is still not running after programming, the reason can only be “under voltage”.
In this case please **reduce cell numbers or the low voltage cut-off** or set in line 2 the ProCard on **“off”**.
The possible **“magnetic field rotation”** of the controller is dependent of the adjusted **timing**.

More information is available on our website –see “controller details”.

Attention:
If you accidentally turn on the transmitter with **activated speed**, the controller immediately will change into the **manual programming mode**!
If this happens **don´t take back under any circumstances the stick or the switch, otherwise changes will be made in the programming!**
(Brake loss or even switching to helicopter mode with a 15 sec. ramp-up time is possible.)
Important:
Separate power supplies of controller and motor, then turn off transmitter.
Stick or switch on “off” and just then put the transmitter and controller back to service.
In this case there will be no changes in programming.

Very important:
At full speed the LED on the controller must be off, otherwise it will only run at partial load ! If the LED will not completely be off, the stop point has been programmed too high. So, set the stop point lower.
Any error messages at the controller (beeps) go off, when the controller is again connected to the card shortly. Error messages: 1x beep/blink: stick position is incorrect
2x beeps/blinks: under voltage detection
3x beeps/blinks: overheat warning
4x beeps/blinks: receiver signals are failed
6x beeps/blinks: startup failed
If the operation of the motor with controller despite proper procedures still doesn´t work, then connect the controller to a **Servo-Tester** or to an entirely different receiving system in order to identify problems with your system.
(Test runs are carried out by us before delivery with Robbe Servo-Tester.)

Warning:

No test runs at full speed without prop at full cell number.
With lower cell numbers it has to be limited on a **few seconds**.
Because of bad cooling and overheating in stand just turn on with propeller a few seconds.
(95 % of all motors are killed on test stand!)

REISENAUER PRÄZISIONSANTRIEBE