

PROG CARD

Dear friends,

we very much appreciate your decision to favour our products. This card is a programming aid which greatly improves and extends practicability of the **Advance** controller family as well as their user friendliness.

- the programming card ProgCard Pro is determined for adjustments of the Advance Plus controller family (on the side of the programming card you will find the inscription Advance **ProgCard plus**), as well as for adjustments of the Advance Pro controllerr (on the side of the programming card you will find the inscription Advance **ProgCard Pro**)
- choose the position of all six shorting plugs according to your controller adjustment demands (on the side with the inscription ProgCard Pro yellow)
- plug in the controller JR plug into the ProgCard socket with the designation "controller" (orange wire pulse, brown wire minus, red wire plus)
- connect the controller to the motor connect flight batteries (respect safety regulations always have the possibility in mind that the motor may start)
- considering controllers with BEC, switch on the switch
- considering controllers without BEC (Opto), connect a current source of 4,8 V for the ProgCard to the position designated by "external power for opto" (receiver battery)
- after one second you will hear a single beep from the motor which confirms an adjustment change of the controller (in case if there was no parameter change the confirming beep will not come)
- switch off the switch (for the Opto-version disconnect the current source from the ProgCard)
- disconnect the flight batteries
- plug in the JR-plug into the receiver throttle channel

Programming - Advance Pro Controller:

Connecting circuit of the ProgCardPro to the controller with BEC (Advance XX Pro)

Connecting circuit of the ProgCardPro to the controller with OPTO (Advance XX Pro OPTO)



Programming Alternatives of the Controller with the Aid of the Programming Card ProgCard Advance Pro:

- Brake
 - Brake off: Brake switched off
 - Brake medium: Brake on, medium braking effect (this adjustment is suited for gear drives)
 - Brake hard: Brake on, higher brake intensity



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• Timing / Advance timing of the motor

- Timing auto: automatic advance timing (this adjustment is suitable for all motor types)
- Timing high: high advance timing (this adjustment is suitable for multi-pole motors with 10 or more poles and for motors with rotating outer magnets "Outrunners", as for instance AXI or similar)
- Timing low: low advance timing (this adjustment is suitable for "classic concept" motors "Inrunners" with 2 to 8 poles)

• Acceleration

- \circ Acceleration high: fast acceleration and deceleration of the motor
- Acceleration medium: medium acceleration and deceleration of the motor
- Acceleration low: slow acceleration and deceleration of the motor

• Battery Type – Type of the connected flight battery

- Battery Type NiXX: flight batteries of the NiCd or NiMh type
- Battery Type LiXX: flight batteries of the Li-Ion or Li-Pol type
- o Battery Type LiFe: flight batteries of the Li-Fe type
- Cut off Voltage Cut off voltage of the controller
 - Cut off voltage high: higher cut off voltage for the selected cell type
 - Cut off voltage medium: medium cut off voltage for the selected cell type
 - Cut off voltage low: lower cut off voltage for the selected cell type
- Cut off Type Motor cut off mode due to voltage drop beneath the adjusted cut off voltage of the controller
 - Cut off type hard: the motor is switched off immediately after the adjusted battery voltage has been achieved (suitable adjustment for gliders)
 - Cut off type slow down: after achieving the adjusted battery voltage the controller decreases the motor power in such a way, that the battery voltage until complete motor cut off does not drop below this level
- Rotation Change of direction of motor rotation
 - Rotation direction of motor rotation: if a change of direction of motor rotation is required. When the shorting plug is inserted into this position the controller only accepts the change of direction of motor rotation and ignores the other adjustments of the ProgCard. This condition is signalled by a permanent beeping of the motor until the flight battery is disconnected. After the change of direction of motor rotation at Cut off type.

Cut Off Voltage per Cell [V]	Li-Ion/Pol	NiCd / NiMh	Li-Fe
High	3,2 V	0,9 V	2,8 V
Medium	3,0 V	0,8 V	2,5 V
Low	2,8 V	0,6 V	2,2 V

Programming - Advance Plus Controller:

Connecting circuit of the ProgCardPlus to a controller with BEC (Advance XX Plus)



Connecting circuit of the ProgCardPlus to a controller with OPTO (Advance XX Plus OPTO)





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Programming Alternatives of the Controller with the Aid of the Programming Card ProgCard Advance Plus:

- Brake
 - \circ Brake off: Brake switched off
 - Brake on: Brake switched on
 - Timing / Advance timing of the motor
 - Timing low: low advance timing (this adjustment is suitable for "classic concept" motors "Inrunners" with 2 to 8 poles)
 - Timing hard: high advance timing (this adjustment is suitable for multi-pole motors with 10 or more poles and for motors with rotating outer magnets "Outrunners", as for instance AXI or similar)
- Throttle curve
 - Throttle curve linear: linear course of control (50% of stick travel corresponds with 50% of motor rpm change)
 - Throttle curve logarith: logarithmic course of control (50% of stick travel corresponds with 50% of power change, i. e. 71% of motor rpm change)
- Battery Type Type of connected flight battery
 - Battery Type NiXX: flight battery of the NiCd or NiMh type
 - $\circ \quad \text{Battery Type-LiXX: flight battery of the Li-Ion or Li-Pol type}$
- Cut off voltage Cut off voltage of the controller
 - Cut off voltage high: higher cut off voltage for the selected cell type
 - Cut off voltage low: lower cut off voltage for the selected cell type
- Cut off type Motor cut off mode due to voltage drop beneath the adjusted cut off voltage of the controller
 - Cut off type hard: the motor is switched off immediately after the adjusted battery voltage has been achieved (suitable adjustment for gliders)
 - Cut off type slow down: after achieving the adjusted battery voltage the controller decreases the motor power in such a way, that the battery voltage until complete motor cut off does not drop below this level

Cut Off Voltage per Cell [V]	Li-Ion/Pol	NiCd / NiMh
High	3,0 V	0,9 V
Low	2,7 V	0,7 V

X – the position designated by X is not engaged. The controller will not store any changes if you plug in the plug into this position.

We grant a warranty of 24 months from the date of purchase under the premise that the item has been operated in conformity with these instructions at the specified voltage and currents and does not show signs of mechanical damages.

The warranty service as well as the post warranty service is provided by the manufacturer.

Wishing you many successful flights, yours truly:

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