



Dear friends,

the controllers **Advance car sport** and **Advance car race** are especially designed for the use in model cars. The controllers can be used with any sensor as well as sensorless brushless car motors.

Basic Data:

Type	Size (mm)	Weight (g)	Resistance switched state (Ω)	Batteries NiCd, NiMh/Lixx
Advance car sport	56 x 27 x 17	70	2 x 0,001	5-8 / 2-3
Advance car race	56 x 27 x 17	70	2 x 0,0006	5-8 / 2-3

Specification:

- operation modes
 - forward - prop. brake
 - forward - prop. brake - reverse
- supports all battery types
- automatic brake in neutral position
- adjustable current limits in 4 steps
- temperature overload protection
- BEC power load - 3A short term
- starting automatic
- high mechanical rigidity
- humidity resistant

Setting for operation:

- only new high quality connectors should be used, properly soldered to the controller cables
- transmitter setting – motor throttle channel:
 - stick range \pm 100%
 - neutral 1,5 ms
- connect the motor to the controller (see first time drive)

Adjustment of the control range:

- switch on the transmitter, push the throttle stick to full power position
- switch on the controller switch (the drive battery and motor are connected, the JR connector is plugged into the motor throttle channel of the receiver)
- 5 seconds after switching on the controller switch there resound four beeps
- return the throttle stick into neutral position
- confirmation of the position storage in the memory is announced by one beep
- switch off the controller switch, disconnect the drive battery
- after 5 seconds connect up the drive battery again
- adjust full brake (or full reverse drive) on the transmitter
- switch on the controller switch (the drive battery and motor are connected up)
- after 5 seconds there resound four beeps
- shift the motor throttle stick to neutral position
- confirmation of the position storage in the memory is announced by one beep

This adjustment must be done only once and is permanently stored in the controller memory. Only when changing transmitters the procedure must be repeated.

Prog-Card:

With the controller we deliver the so called Prog Card which allows a simple and lucid way to set up several parameters.

Reverse OFF – operation mode forward/brake

Reverse ON – operation mode forward/brake/reverse

Current limit – current limiting as a sum of two position values (20, 40, 60, 80 A are possible)

Timing Low – timing for two pole motors

Timing High – timing for multipole motors

Accu type – battery type

Cut off voltage low - min.voltage for NiCd/NiMh is 0,7 V/cell

- min.voltage for pro Lixx is 2,7 V/cell

Cut off voltage high - min.voltage for NiCd/NiMh is 0,9 V/cell

- min.voltage for Lixx is 3,0 V/cell

Setting up with the Prog Card:

- choose the jumper positions according to your requirements
- connect the controller connector to the position marked „controller“
- switch on the controller switch (drive battery and motor are connected up)
- after 1-3 seconds one beep resounds – thus confirming data storage
- switch off the controller switch
- disconnect the drive battery
- all parameters are stored in the controller memory and it is not necessary to repeat this procedure after battery disconnection

Factory settings of the controller:

- operation mode forward + brake
- current limiting 20A
- timing low (for two pole motors)
- cell type NiCd/NiMh
- cut off voltage 0,7 V/cell
- control range (forward 1,5-1,8 ms; reverse/brake 1,5-1,2 ms)

For the first time drive always set the operation mode forward + brake and check:

- whether there is no reaction if the throttle stick is moved forward from neutral position – apply the „Reverse“- function of your transmitter for the motor throttle channel and repeat the control range setting procedure
- when the throttle stick is moved forward from the neutral position the model must also move in forward direction, if it moves in the opposite direction (backwards) disconnect any two of the three motor wires and reconnect them reversed to the motor terminals

Connect the driving batteries to the system only short before your start and disconnect them immediately after you have finished your drive.

ATTENTION! It is insufficient to switch off the controller switch only!

The controller warranty is valid for 24 months after purchase. If you want to take advantage of this warranty the controller must be in good mechanical condition and must have been used in accordance with this instruction sheet.

JETI model s.r.o., Kadláčková 894, CZ-742 21 Kopřivnice, Phone./Fax: ++420 556 802 092.