

Programming card UNICARD+ version 3.xx

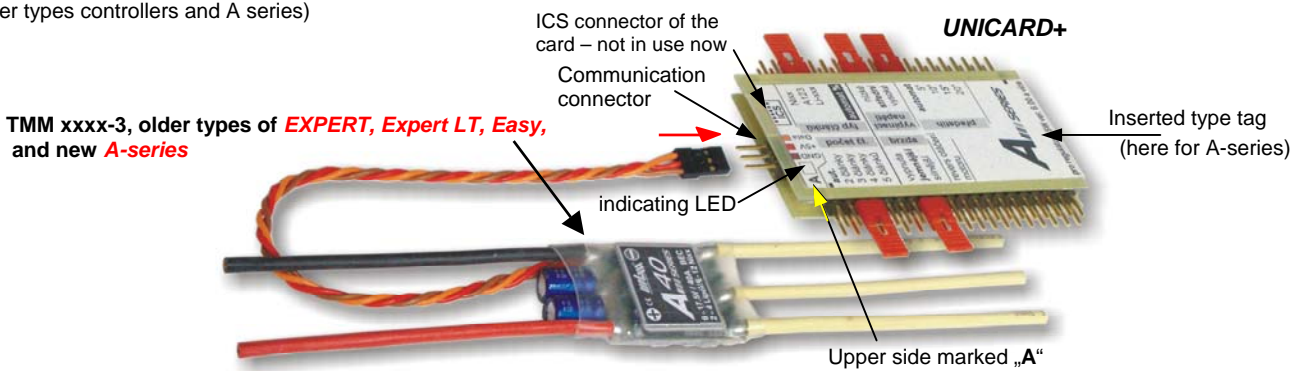
The programming card is designed for easy and comfortable programming of practically all available parameters of different MGM compro controllers. One programming card can program all MGM compro controllers! Only tag is changed when different controllers are used.

The tags for basic types are packed together with the card, tags for newer types of controllers of A-series, E-series (E3) and Z-series (Z3) are part of the controller package. All tags may also be downloaded from our website.

- 1) Insert the tag corresponding to your controller under the covering part of the card on both sides - top side "A" and bottom side "B" (see 2nd page of these instructions)
- 2) Connect UNICARD+ with the controller - plug the controller's **servocable** in to the communication connector of the card or connect the **ICS connector** of the controller together with the communication connector of the card using **CC_02** cable. Using **ICS connector** with all newer controllers is much more suitable, as you do not need to disconnect the receiver and unplug the servocable from it. The newer versions of controllers use **only ICS connector** for programming with UNICARD+ or PC (connection through servocable is not possible).
- 3) Using the programming couplers connect pins on side „A“ (and on side „B“ if necessary) corresponding to the parameters you wish to set. If incorrect combinations are set (eg. switching-off voltage 3.1V and 3.4V at the same time or setting of 8 Lipol cells for controller for only 4 Lipol cells etc) UNICARD+ warns of such error by switching on the **red LED** on the controller after it is connected to it.
- 4) Turn the controller on - communication between the card and the controller will be carried out automatically and the required parameters will be transferred to the controller. **Green LED** blinks during the data transfer. The **green LED** stays lit up when the data transfer is finished correctly – now you may remove UNICARD+, programming is finished.
- 5) In case of incorrect connection, connection of different type of controller, setting of incorrect parameters etc. **red LED** lits up on the UNICARD+.

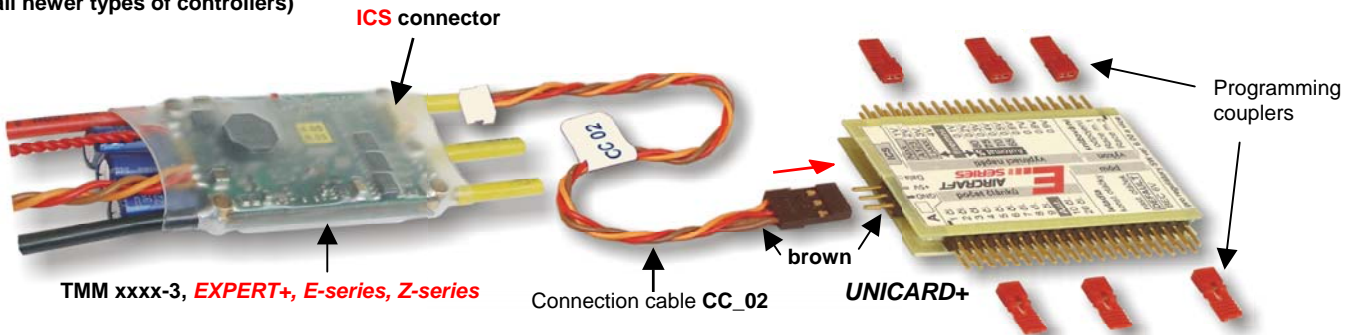
Connecting the controller to the programming card using **servocable**:

(older types controllers and A series)



Connecting the controller to the programming card using **ICS connector**:

(all newer types of controllers)



Important:

For some controllers (eg. Car/Boat controllers of E3-series and Z3-series) are some parameters available only through auxiliary couplers marked as „SHIFT1“ and „SHIFT 2“ on the tag; see example below:

Basic parameters (here **brake** and **acceleration**) – programm without couplers in „SHIFT x“

side „B“

Parameters available through coupler **SHIFT 1** here **aut. brake in neutral** and **deceleration**

Parameters available through coupler **SHIFT 2** here **width of neutral** and **backward max.**

markers – must correspond with the last pin of UNICARD+

side „A“

couplers „SHIFT 1“ and „SHIFT 2“

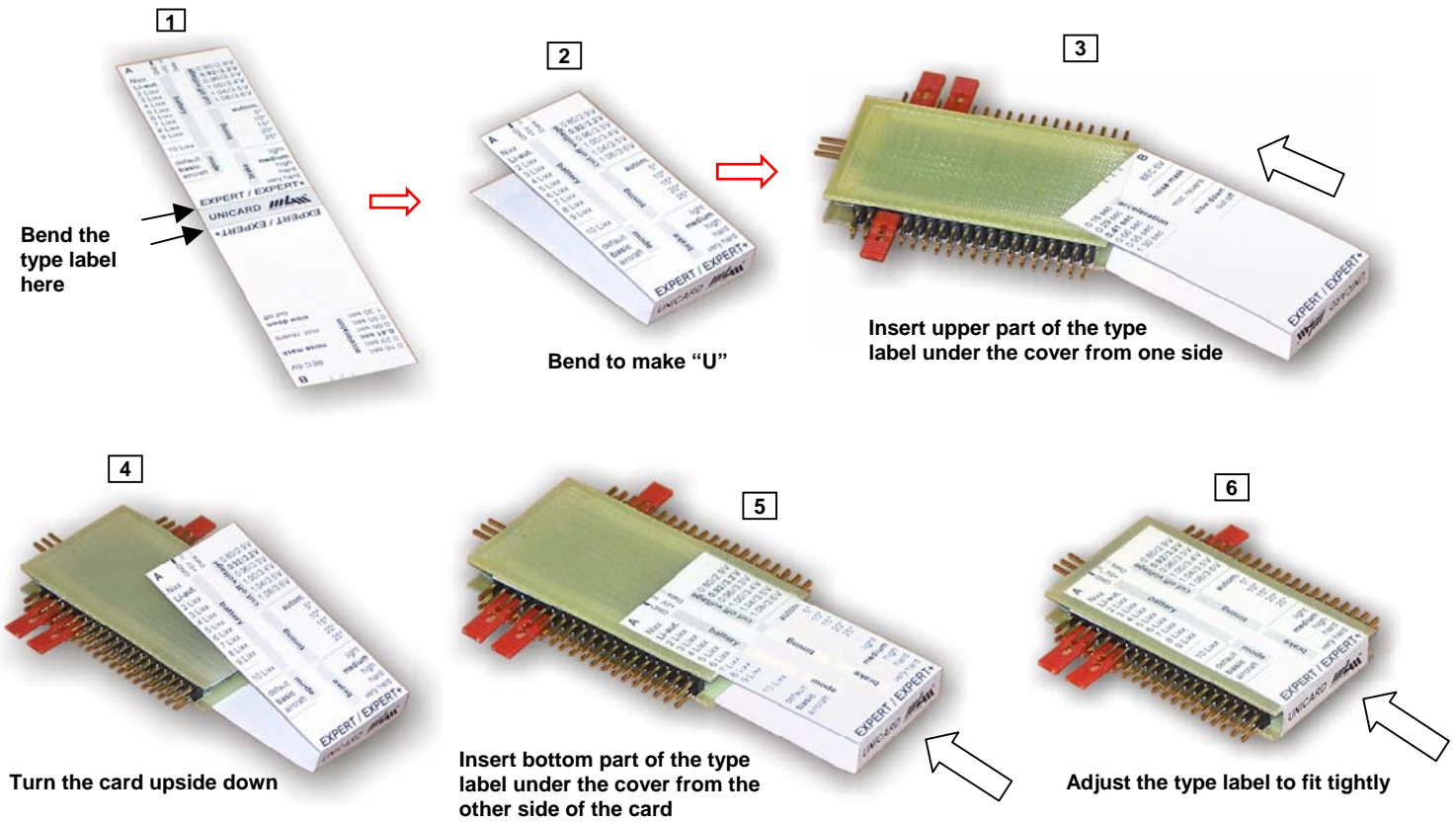
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Any sequence of programming is possible - you may start to program parameters without "SHIFTS" or start with „SHIFT 1“ or „SHIFT 2“.

The switching-off voltage may be set to either **default** and at the same time **Nixx** or **A123** or **Li-xxx**, or to the automat **78 %** or you may set it directly to 1V/2V/3V/4V and at the same time to 0.1V up to 0.9V. If you wish to set zero after the decimal point (eg. 3.0V), do not place a coupler to any position of 0.1V up to 0.9V.

Similarly, the number of cells may be either set to automatic (**Aut.**) or you enter the number directly as the sum of 1 up to 9 cells + 10 or 20 cells. If there is less than 10 cells, do not place couplers to 10 or 20 cells.

Cut out a tag from enclosed accessories corresponding to the type of your controller.



Notice 1:

UNICARD side "A" is side where pins of communication connector are on the left side, see figure. Check correct orientation of tags - the marking for communication connector must fit the connector on the card.

Notice 2:

- When setting "default", none of the other parameters is considered – thus you do not need to take out the couplers.
- When setting "basic", other parameters except for battery type are not considered – thus you do not need to take out other couplers.
- If you wish to set more than 10 Li-xx cells, place one coupler to "10 Li-xx" and another one on Li-aut. (=1) up to 9 cells – of course the controller must be designed for such number of cells.

