31 Installation of the USB-driver for future-x, -xl,-xxl

(for all who are not so familiar with the Windows operating system)

31.1 Installation of the USB driver

If you like to display the logged data of the controllers via *Akkusoft* as well as installing a firmware update then you have to install the USB driver on your PC first (available on our **Homepage in section C4: schulze-future-l-xl-xxl-64bit.inf**).

31.1.1 Windows operating systems initially ask the user at the moment when you have connected the USB-port of a charger (or USB-adapter) with the USB-slot on your computer where to find the fitting driver (for the *nextGeneration II* it is the **schulze-future-l-xl-xxl-64bit.inf** file). Set the desired file-path to the downloaded file.
If you had aborted the hardware installation assistant you can start it again by a right-click on MyComputer ("Arbeitsplatz" in german) -> Properties, -> Hardware, -> Device Manager, -> Other devices, -> **schulze_future-l-xl-xxl** then right click on -> update driver and start again (or similar text). It is not allowed that the future controller is connected to any power supply - it is powered via the USB-cable.

31.1.2 When the driver is successfully installed and that you will be able to receive and store battery data with a normal terminal program or an elder version of the **Akkusoft** - then you have to look on which COM port the operating system has installed your USB-device (see **chapter 31.1.3**). The latest *Akkusoft* offers in the **connection -> property -> connect with** menu very comfortable to make a selection on "**Schulze future**", so that it is not necessary to perform **chapter 31.1.3**.

31.1.3 On Windows XP you can establish the number of the COM port occupied by the driver by right-clicking on the workplace symbol of your PC; click or double-click on Properties, Hardware, Device Manager, Ports (COM and LPT). You will find a COM port with the name "**Schulze future**". Windows normally installs the device on "COM3" or higher.

Important note:
This connection is only displayed when the charger or our USB-adapter is connected to the USB port of the PC!

Also important:
If you use more than one *future* then the driver will install for each *future* controller an additional USB port number.

PS: These proceedings are not specific for the *Akkusoft* or any connected controller, but is specific for installing a driver on the Windows operating system.

31.2 Setting the COM port e.g. in the "Akkusoft" analysis program.

31.2.1 Open **Akkusoft**. Open the pull-down menu entitled "Connection", then click on "Properties". Select the port identified under **section 31.1.2 / 31.1.3**, then click on OK.

31.2.2 Checking the function of the COM interface (in the Akkusoft analysis program).
• Click on "Info", then on "Online Info". An information window opens, displaying the communication between the controller and the PC.
• When you connect the USB cable to the controller then in the "Online Window" appears a star followed by a H ('*** H**') and in another line the name of the controller ('*** future-xxl-40.303 V5.00**')

31.3 Firmware update

When this test (**section 31.2.3**) was successful then you also can upgrade the firmware via this USB-Link. Click on "Tools" and then "FirmwareUpdate".
But first you have to select the fitting file type for the *future-???* (file ending **.**???) on the window.
Then follow the instructions on the update-screens.

31.4 Important Note

While using the USB port on the *future* it is not allowed to connect the controller to any power supply - the *future* must be exclusively powered via the USB-cable.