Emergency Update Mitras

If the update with the GHL Control Center failed then it is possible to carry out the update via a special tool.

Comments on the emergency update

First you should check if the lamp is not simply in the update mode. The update mode is left if the voltage supply is shortly (ca. 10s) disconnected from Mitras. If the lamp starts normally then the update can be carried out through the GHL Control Center.

In case the display remains dark and nothing is displayed, the firmware must be loaded as described below. This can be done via the USB connection just as it is the case for the normal operation.

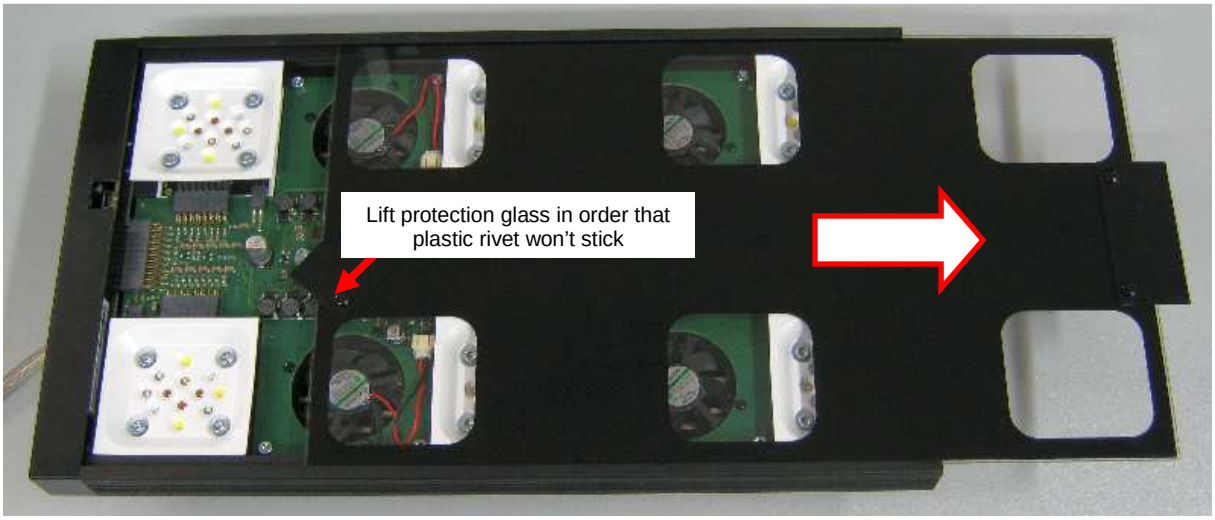
The lamp must be opened for the emergency update.

The following steps must be followed exactly in order that the update of the firmware works.

Opening Mitras for the update

Remove the power supply and remove the back cover of Mitras.

Turn the lamp and move the protection glass into the direction of the removed cover. While doing this, lift the lid slightly upwards in order that the plastic rivet won't stick at the components (capacitor).



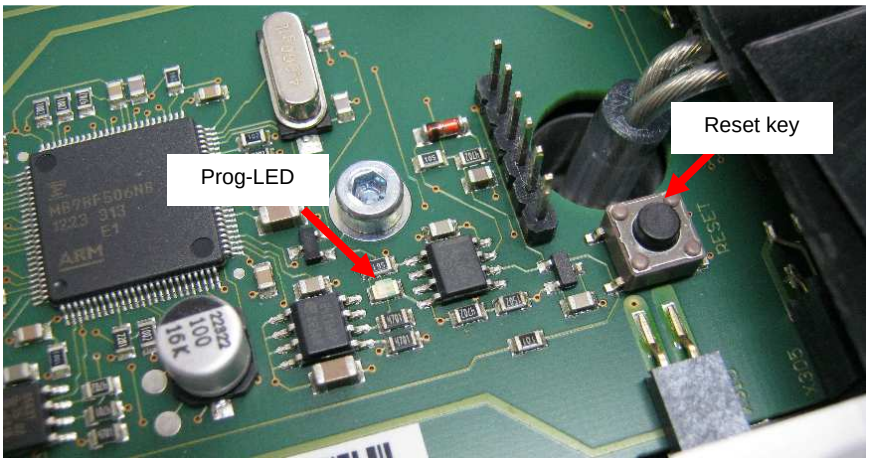
It is sufficient to remove the glass so far that you can press the reset key.

Connect the USB-cable at the USB-port of the lamp and a free USB-port of your PC and establish the power supply of the lamp again.

Finding out the interface number of the COM port for the update

Start the Windows device manager and open the entry „Connections (COM and LPT)“. There you see different communication connections. Here also the GHL Virtual Communications Port must be shown.

Press the reset key and hold it until the Prog-LED lights up. Then loose the reset key and the lamp turns into the programming mode.

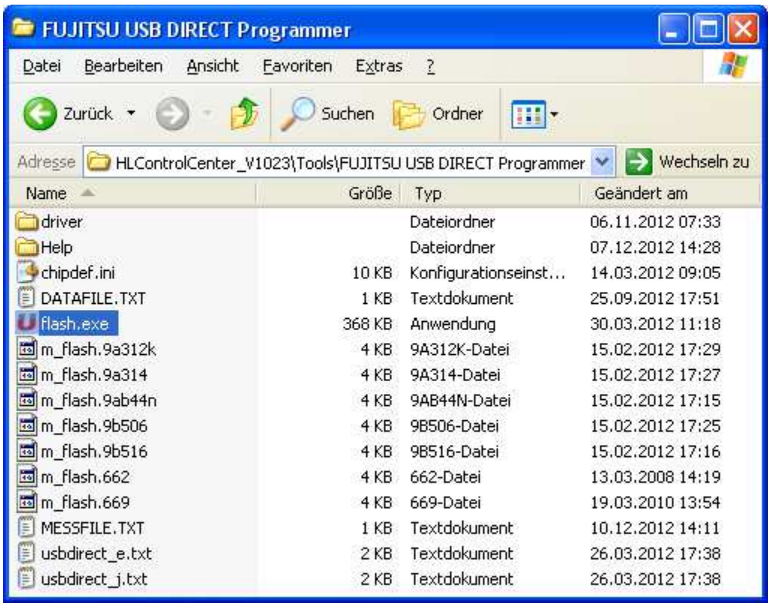


Then a new entry shows up under „Connections (COM and LPT)“ instead of the GHL Virtual Communications Port, it is „USB-Port“ or „USBVCOM-Port“ – this is the Mitras interface for the update. If necessary you will have to install the driver first.

The driver can be found in the program directory of the GHL Control Center under „Tools\FUJITSU USB DIRECT Programmer\driver“.

Carry out the Mitras update

Look for the Flasher tool „flash.exe“. The tool can be found in the program directory of the GHL Control Center under Tools\FUJITSU USB DIRECT Programmer.



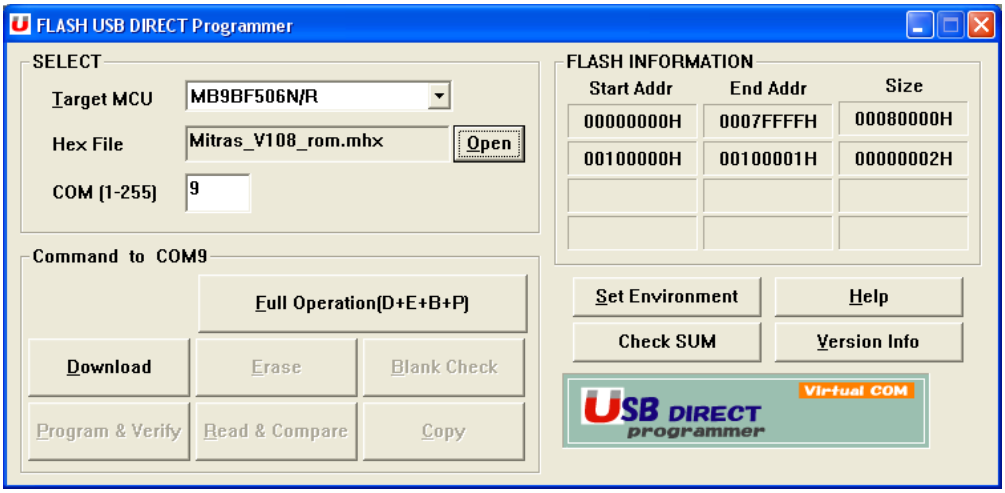
Start the Flasher tool with the name „flash.exe“.

Make the following settings in the tool and pay attention to the correct spelling:

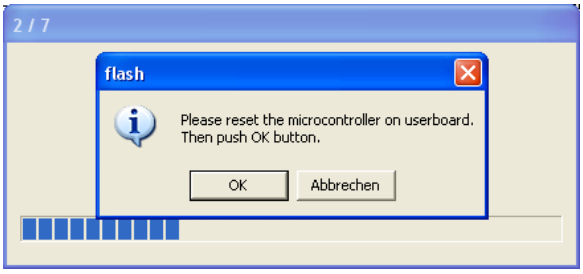
Target CPU: **MB9BF506N/R**

COM (1-255): **Mitras interface for the update** (here in the example 9)

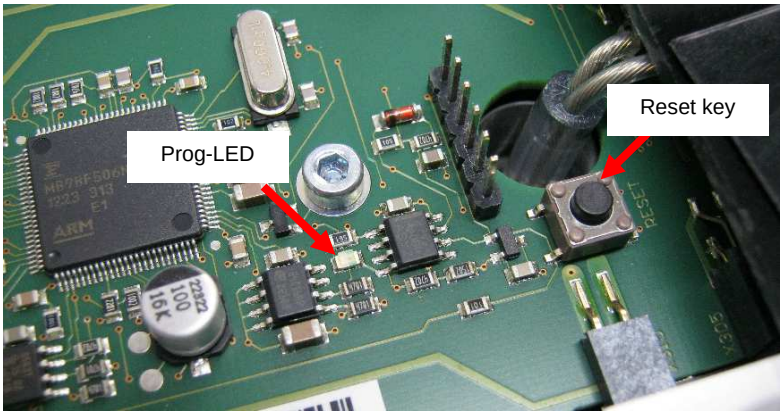
Load the firmware file for Mitras by clicking onto „Open“, navigate to the firmware file and select it. The file name of the firmware begins with „Mitras_“ and ends with „.mhx“, i.e. for example „Mitras_V108_rom.mhx“ and can be found in the program directory of the GHL Control Center under „Firmware“



Now click onto „Full Operation" and this download window will appear.

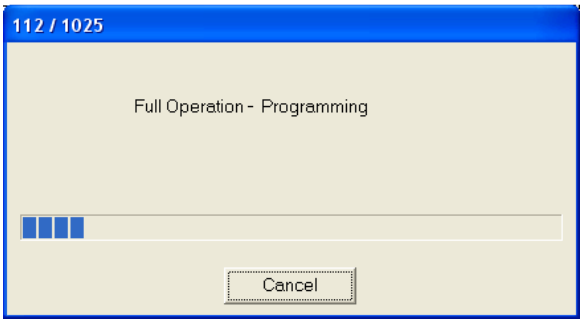


Now press the reset key and hold it until the Prog-LED lights up. Then loose the reset key and the lamp will switch into the programming mode.



After that confirm the message with OK and the download should start.

If this is not the case, then most probably the false interface has been selected or the switch to the programming mode was not successful. In this case confirm the message in the window and click once again onto „Full Operation", get the Mitras into the programming mode and confirm the message with „OK“.



If the download was ended successfully, then confirm the message with OK and quit the Flasher (close program).

Now Mitras should start again normally and – after the power connection has been disconnected – Mitras shall be closed again.