Firmware Update Guide

1. FIRMWARE UPDATE NEEDED

On some EGv4 pumps, we have seen that the machine type and other settings can be erased if the EGv4 is switched on and immediately after is switched off again.
If this happens, the machine type defaults to "Easy Greasy Carry" instead of "Easy Grease ver. 4 Vestas_1". The start screen will show that:

When you run the pump, it will make a metallic sound and run at a very low speed.

The EGv4 needs a firmware update which handles this better. Some USB Keys can't be used for the update – we normally use the one below:

KINGSTON PART NUMBER: DTSE9H/16GB

If the firmware update procedure cannot be completed with your available USB Key, you can order one free of charge by sending an email to: repairs@hove-as.dk and Cc: hove@hove-as.dk

You must include the following information:

- Photo of the nameplate of the pump (or written info of type, serial no., and production date)
- Invoice address (for custom purposes)
- Delivery address
- Name, email address, and telephone no. of a contact person at the delivery address.

2. FIRMWARE UPDATE PROCEDURE

2.1.   Insert the USB Key in a PC.

2.2.   Delete any files at the USB Key.

2.3.   Copy the attached "image.bin" file to the USB Key.

2.4.   We recommend using the "**Safely Remove Hardware**" function in Windows, before pulling out the USB Key.

2.5.   Switch off the pump.

2.6.   Remove the Protection Lid for the USB Socket by means of a coin.

2.7.   Insert the USB Key in the socket.

2.8.   Switch on the pump.

2.9.   After about 3 seconds, the blue LED next to the USB socket will turn on.

2.10.   After about 8 seconds, the blue LED will turn off.

2.11.   Switch off the pump.

2.12.   Remove the USB Key from the socket.

2.13.   Switch on the pump.

2.14.   Remount the Protection Lid for the USB Socket.

The program is now updated to the latest version (2019-004)

If the firmware update procedure cannot be completed, please try another USB Key or order one by sending an email to**:** repairs@hove-as.dk and Cc: hove@hove-as.dk

After the firmware update the Machine Model must be set, and the Flow Meter and the Touch Screen must be recalibrated. The settings at the "SYSTEM" page must be re-entered too.

3. MODEL SETTING PROCEDURE

3.1.   Switch on the pump.

3.2.   Press your preferred Language Button.

3.3.   Press "SETUP".

3.4.   Press the "SET" Button under the "MODEL (#)" field.

3.5.   Input "12321" and press "ENTER".

3.6.   Press the Button which corresponds to wanted Machine Model, e.g. "EGv4".

3.7.   Press "ACCEPT".

4. FLOW METER CALIBRATION PROCEDURE

4.1.   Switch on the pump.

4.2.   Press your preferred Language Button.

4.3.   Select your preferred Grease Type by pressing at the "Density" field and press "ACCEPT".

4.4.   Set "AUTO (g)" to 100.

4.5.   Deliver the 100 grams by pressing "START".

4.6.   Weight the amount and note it.

4.7.   Press "SETUP".

4.8.   Press the "SET" Button under the "MODEL (#)" field.

4.9.   Input "11111" and press "ENTER".

4.10.   Press the "SET" Button under the "WEIGHT (mg)" field.

4.11.   Input the noted weight in milligrams, e.g. 100 g = 100000 and press "ENTER".

4.12.   Press "X" in the right upper corner of the screen.

4.13.   Deliver 100 grams again and check that the weight is 100 +/- 3 g; otherwise repeat the calibration steps from 3.5.0. Repeat the steps above from 5.2.6. max. 3 times.

5. TOUCH SCREEN CALIBRATION PROCEDURE

5.1. Switch on the pump.

5.2. Press your preferred Language Button.

5.3. Press "SETUP".

5.4. Press the "SET" Button under the "MODEL (#)" field.

5.5. Input "99999" and press "ENTER".

5.6. Touch the red cross at the screen until it moves to another position (use a pen or similar).

5.7. Repeat for all 5 positions – until the message "Calibration OK!" is shown at the screen.