

## Instructions and hints to flash all boards

### ***Find your UUID***

```
sudo service klipper stop  
~/klippy-env/bin/python3 ~/klipper/scripts/canbus_query.py
```

### ***Find your mainboard***

```
ls /dev/serial/by-id/*  
or  
ls /dev/serial/by-path/*
```

## **MAINBOARD SETTINGS**

[\*] Enable extra low-level configuration options  
STMicroelectronics STM32  
STM32H723  
128 kiB Bootloader  
25 MHz crystal clock  
communication interface (USB (on PA11/PA12))  
(x) high precision stepping support  
GPIO pins to set at startup: PE5,PA8  
Firmware Extras: ensure eddy-ng is enabled (after installing) to retain use of the eddy probe

## **FLASH MAINBOARD**

```
sudo service klipper stop  
  
make flash FLASH_DEVICE=/dev/serial/by-id/usb-  
Klipper_stm32h723xx_2A0010000851323235363233-if00  
  
sudo service klipper start
```

## **OTHER BOARDS SETTINGS**

[\*] Enable extra low-level configuration options  
STMicroelectronics STM32  
STM32F103  
8KiB bootloader offset  
Clock Reference: 8 MHz crystal  
CAN bus on PB8/PB9  
Firmware Extras: ensure eddy-ng is enabled (after installing) to retain use of the eddy probe

!!! Same for buffer and chamber heater but without eddy\_ng support !!!

## **FLASH TOOLHEAD BOARD**

1<sup>st</sup> bring board into canboot mode with (fail message is normal):

```
~/klippy-env/bin/python3 lib/canboot/flash_can.py -i can0 -u 4ada928d4ba9 -f out/klipper.bin
```

Then flash:

```
~/klippy-env/bin/python3 lib/canboot/flash_can.py -i can0 -u 61755fe321ac -f out/klipper.bin
```

## **FLASH BUFFER BOARD**

1<sup>st</sup> bring board into canboot mode with (fail message is normal):

```
~/klippy-env/bin/python3 lib/canboot/flash_can.py -i can0 -u bbd0ba251c8f -f out/klipper.bin
```

Then flash:

```
~/klippy-env/bin/python3 lib/canboot/flash_can.py -i can0 -u 704fe1305bd6 -f out/klipper.bin
```

## **FLASH CHAMBER HEATER BOARD**

1<sup>st</sup> bring board into canboot mode with (fail message is normal):

```
~/klippy-env/bin/python3 lib/canboot/flash_can.py -i can0 -u 35cbd4021f2c -f out/klipper.bin
```

Then flash:

```
~/klippy-env/bin/python3 lib/canboot/flash_can.py -i can0 -u 58a72bb93aa4 -f out/klipper.bin
```

*Thanks to Vladimir Vukicevic (VVUK on GitHub) for finding out how to flash with correct settings.*