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Voltboard DFU Flash Guide on OnePlus 3/3T (WINDOWS)

For this guide, you will need:

- OP3 w/ NEOS connected via SSH w/ "root" access

If you are starting with a stock OP3 or EON, we recommend you first flash NEOS before continuing this guide. Guides can be found here: (<http://openboards.io/resources/>).

1. You will first need to gain "root" access to your rebooted OP3 running NEOS over SSH. If these words are foreign to you, try our "SSH Instruction for NEOS" guide at (<http://openboards.io/resources/>)
2. Make sure the Voltboard is not plugged into power. Press the Voltboard's white DFU button
3. While still holding down the DFU button, connect the Voltboard to power.
4. After plugging in the device to power, the board has entered DFU mode. You can release the DFU button.
5. Back at the SSH terminal, you will need to kill all board processes and open up the USB port for flashing in DFU mode, enter
`killall boardd`
If the board gives back a "No Processes Ended" or similar error, you will need to reboot the phone and again access root via SSH. Once this has been completed, re-enter the "killall boardd" command.
6. Next, you need to navigate to /data, enter:
`cd /data`
7. Next, download the panda file from github, enter:
`git clone https://github.com/vntarasov/panda.git panda --branch voltboard-vt`
If you receive a "Already Exists" error for the panda directory, `rm panda` then try again.
8. Next, you need to navigate to panda/board, enter:
`cd panda/board`

9. Once you have gained access to the panda/board directory you are ready to flash the Voltboard, enter:

```
make recover -f Makefile.legacy
```

The OP3 should now show "Paired" on the Openpilot Vision Screen.

10. Finally, you need to reboot the phone, enter:

```
reboot
```

Congrats! You have now DFU flashed a Voltboard-UT!

For pinout, installation, or cable guides, checkout: <http://openboards.io/resources/> for more information. Happy Hacking!