



## Troubleshooting downloads with WebUSB

### Step 1: Check your cable

Make sure that your micro:bit is connected to your computer with a micro USB cable. You should see a **MICROBIT** drive appear in Windows Explorer when it's connected.



**If you can see the MICROBIT drive go to step 2.**

If you can't see the drive:

- Make sure that the USB cable is working. > Does the cable work on another computer? If not, find a different cable to use. Some cables may only provide a power connection and don't actually transfer data.
- Try another USB port on your computer.

Is the cable good but you still can't see the **MICROBIT** drive? Hmm, you might have a problem with your micro:bit. Try the additional steps described in the [falut finding](#) page at microbit.org. If this doesn't help, you



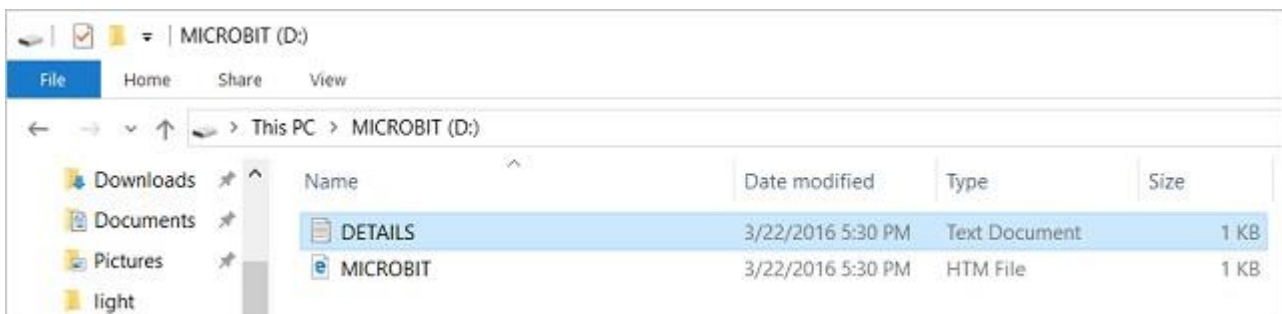
can create a [support ticket](#) to notify the Micro:bit Foundation of the problem. **Skip the rest of these steps.**

## Step 2: Check your firmware version

It's possible that the firmware version on the micro:bit needs an update.

Let's check:

1. Go to the **MICROBIT** drive.
2. Open the **DETAILS.TXT** file.



3. Look for a line in the file that says the version number. It should say

**Version: ...**



or **Interface Version: ...**



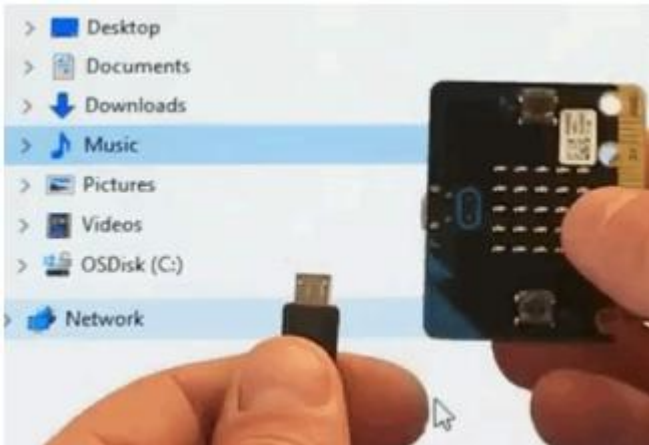
```
DETAILS.TXT - Notepad
File Edit Format View Help
# DAPLink Firmware - see https://mbed.com/daplink
Unique ID: 9900000031324e4500599018000000410000000097969901
HIC ID: 97969901
Auto Reset: 1
Automation allowed: 0
Overflow detection: 0
Daplink Mode: Interface
Interface Version: 0243
Git SHA: b403a07e3696cee1e116d44cbdd64446e056ce38
Local Mods: 0
USB Interfaces: MSD, CDC, HID
Interface CRC: 0x14256f44
Remount count: 0
|
```

If the version is **0234, 0241, 0243** you **NEED** to update the [firmware](#) on your micro:bit. Go to **Step 3** and follow the upgrade instructions.

If the version is **0249, 0250** or higher, **you have the right firmware** go to step 4.

### Step 3: Update the firmware

1. Put your micro:bit into **MAINTENANCE Mode**. To do this, unplug the USB cable from the micro:bit and then re-connect the USB cable while you hold down the reset button. Once you insert the cable, you can release the reset button. You should now see a **MAINTENANCE** drive instead of the **MICROBIT** drive like before. Also, a yellow LED light will stay on next to the reset button.



## 2. Download the firmware .hex file

(<https://microbit.org/guide/firmware/>)

3. Drag and drop that file onto the **MAINTENANCE** drive.

4. The yellow LED will flash while the HEX file is copying. When the copy finishes, the LED will go off and the micro:bit resets. The **MAINTENANCE** drive now changes back to **MICROBIT**.

5. The upgrade is complete! You can open the **DETAILS.TXT** file to check and see that the firmware version changed to match the version of the **HEX** file you copied.

If you want to know more about connecting the board, MAINTENANCE Mode, and upgrading the firmware, read about it in the [Firmware guide](#).



## Step 4: Check over version of Browser

WebUSB is a fairly new feature and may require you to update your browser. Check that your browser version matches one of these:

- Chrome 65+ for Android, Chrome OS, Linux, macOS and Windows 10.

## Step 5: Pair device

Once you' ve updated the firmware, open the **Chrome Browser**, go to the editor and click on **Pair Device** in the gearwheel menu. See [WebUSB](#) for pairing instructions.

Enjoy fast downloads!