

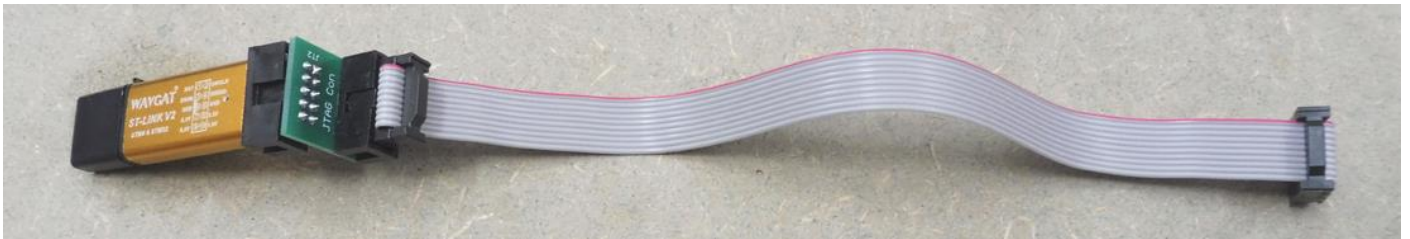
UPGRADING FIRMWARE

Connecting the JTAG Programmer

As from 2021 the Ribbon cable is now connected to the controller board and folded up inside the enclosure.

Also some JTAG Programmers will need the adapter Board and others will not. This is down to the manufacturer changing the pin positions. If you did not get a adapter board with your JTAG then it is not needed.

OLD JTAG CONNECTOR WITH ADAPTER BOARD AND RIBBON CABLE CONNECTED



2021 NEW JTAG CONNECTOR WITHOUT ADAPTER BOARD AND RIBBON CABLE



Please note: The new JTAG will come with a set of jumper leads, these are not used and can be discarded.



Remove the 4 screws on the front panel.



Pull the manual winder cap off.



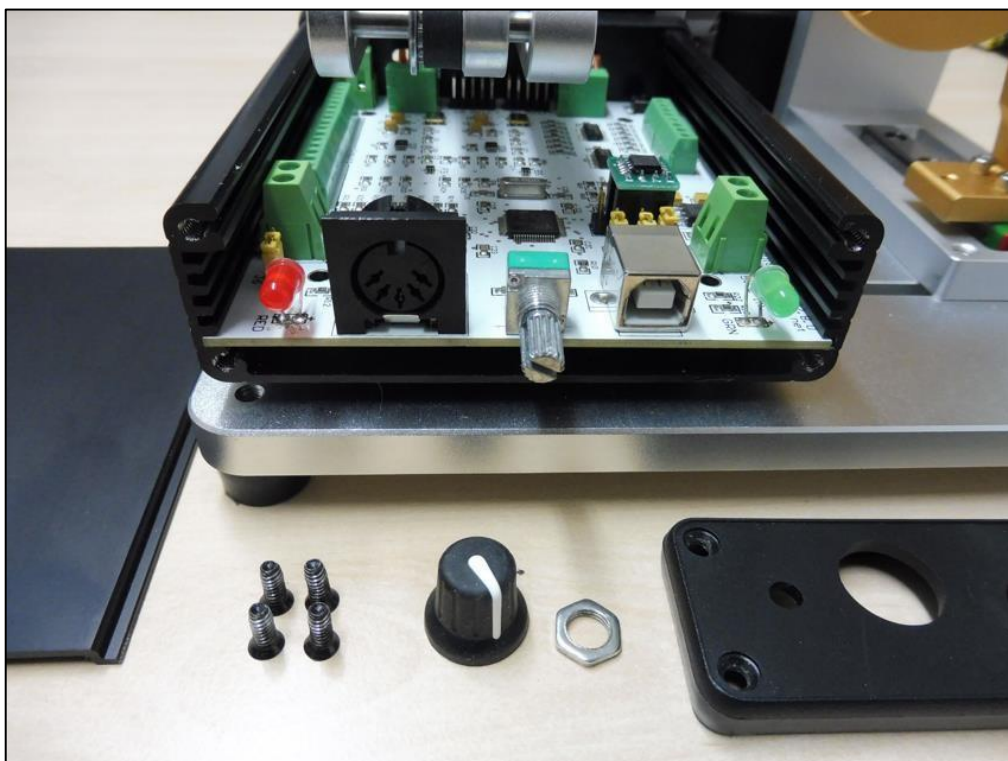
Using a 10mm spanner remove the nut.



Pull the front panel off.



Then slide the lid out of the casing.



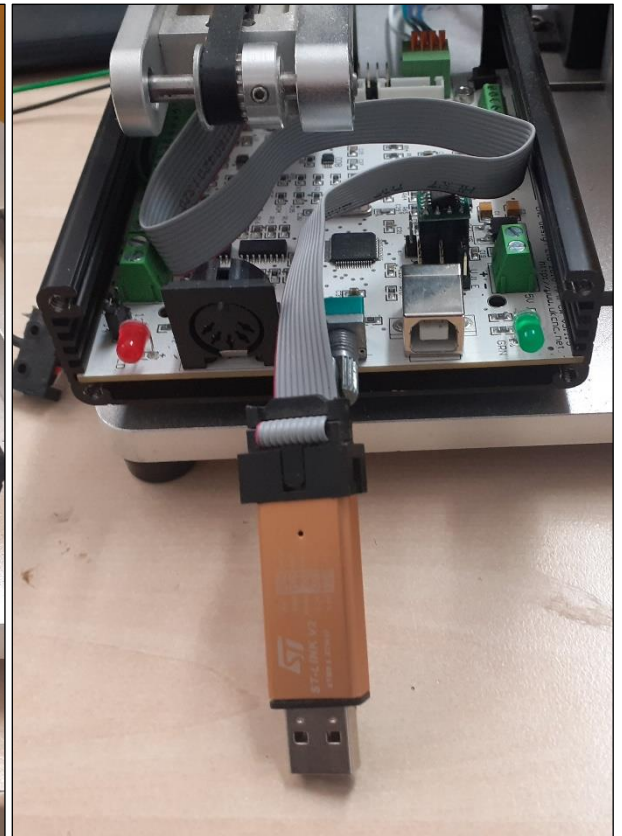
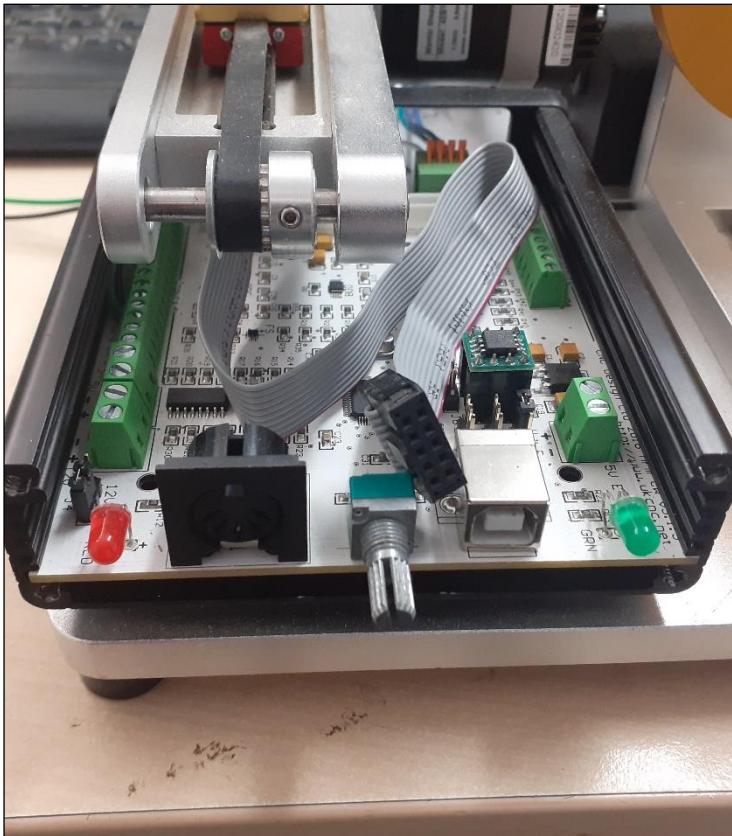
Please read the next step carefully.

Before Proceeding with the next step read on

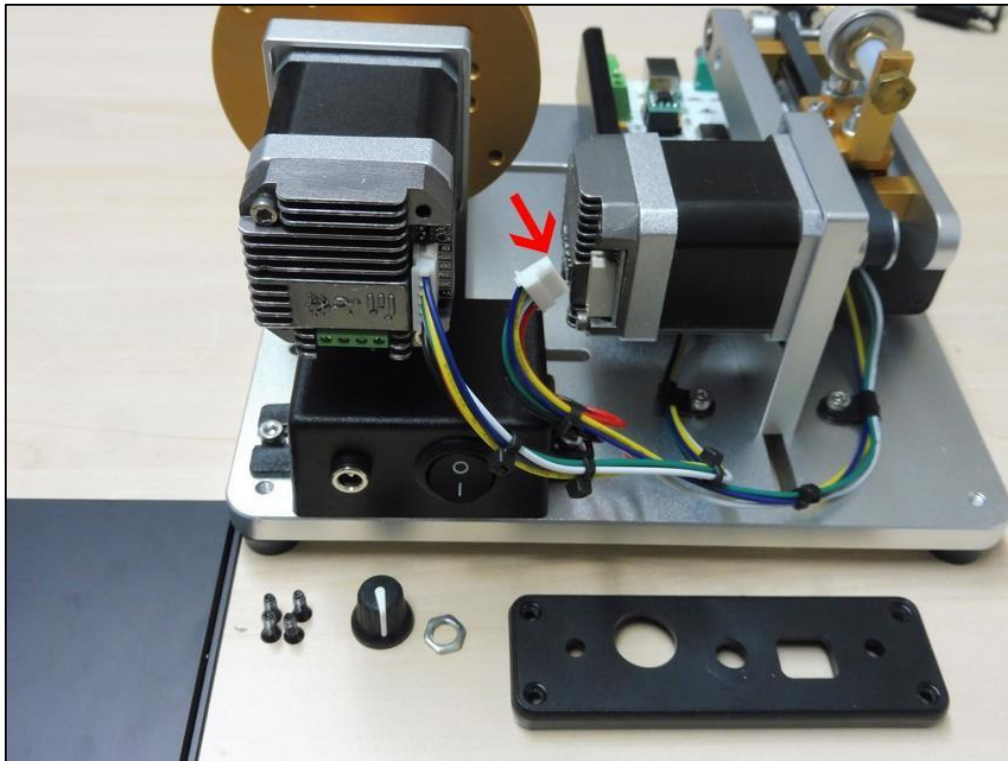
As from 2021 the Ribbon cable is now connected to the controller board and folded up inside the enclosure.

If there is no Ribbon cable present skip to [page 6](#) for further instructions.

If there is a ribbon cable folded into the case then plug your JTAG into the ribbon cable as shown below and proceed to [Page 9](#) to update your firmware.



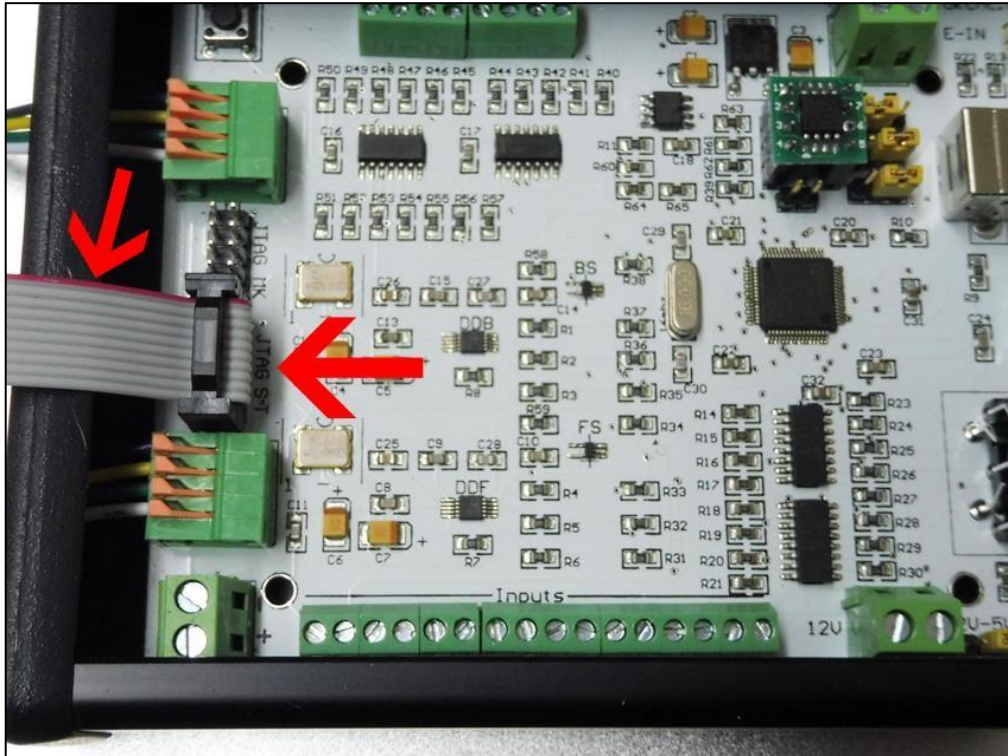
Please Note: If the JTAG programmer does not reach your PC, use a Male to Female USB Lead as shown on [Page 8](#).



Unplug the feeder motor.



Remove the 2 bolts that secure the feeder to the base plate.



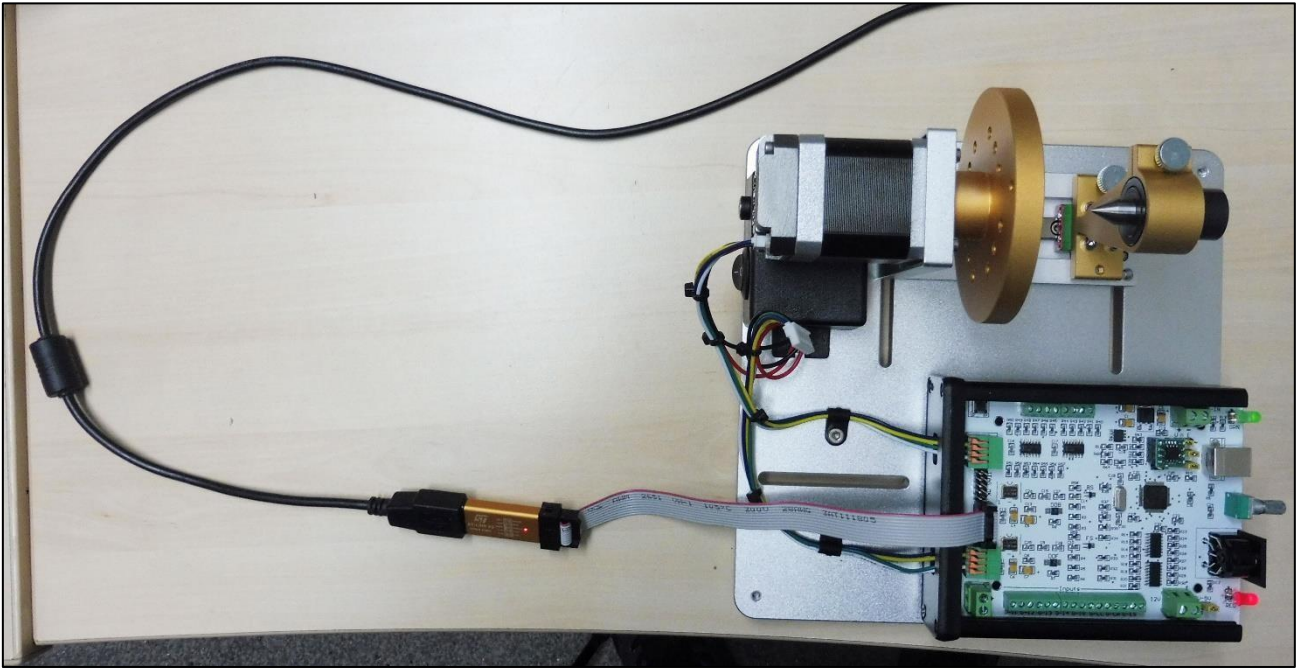
Ensure your JTAG Programmer is connected as shown above with the red line at the top. (IMPORTANT: Always connect your programmer to “JTAG ST” on the controller Board.



Make sure the adapter PCB is connected the correct way.

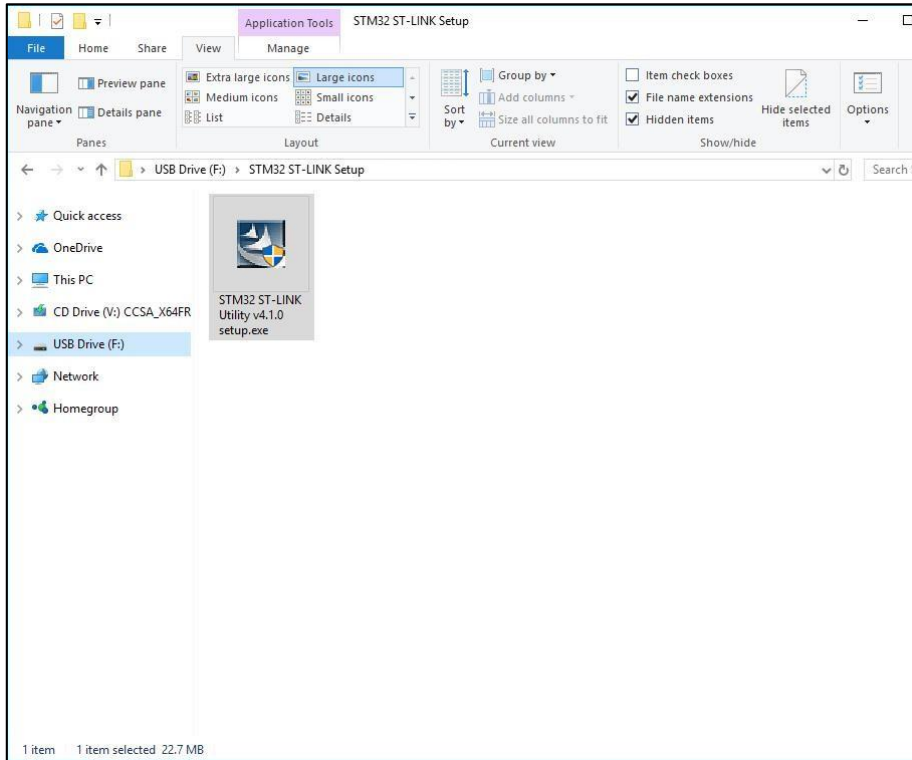


JTAG to ARM Controller MKII for Firmware Updates



Please Note: If the JTAG programmer does not reach your PC, use a Male to Female USB Lead as shown above.

Installing STM32 ST-Link Utility and programming firmware

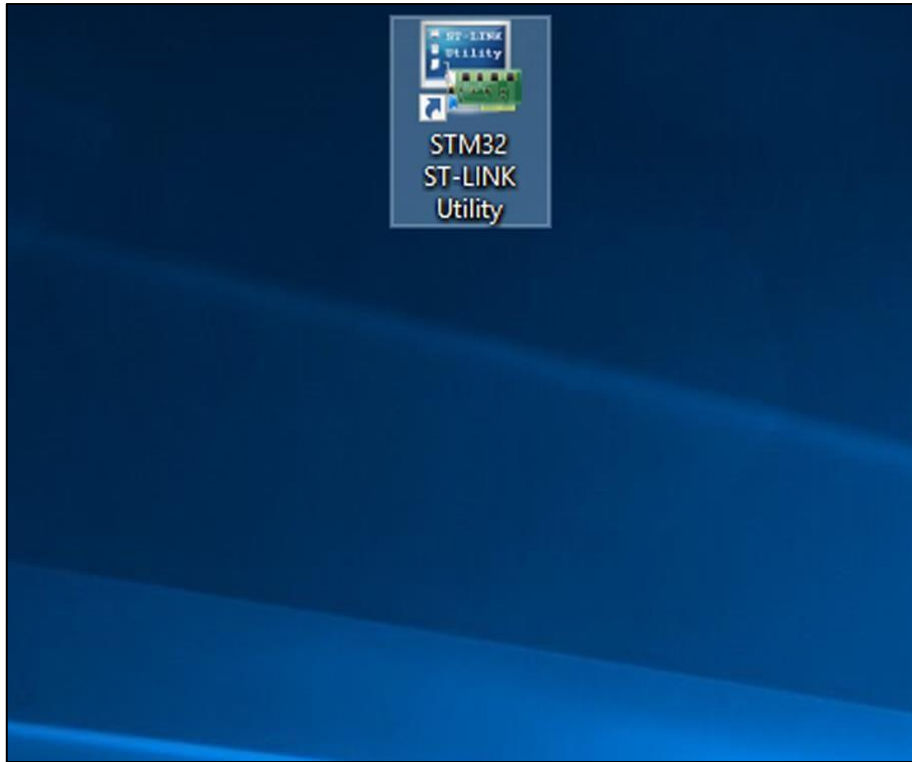


The STM32 ST-LINK Utility Setup Executable is located on the supplied USB memory stick as shown above.

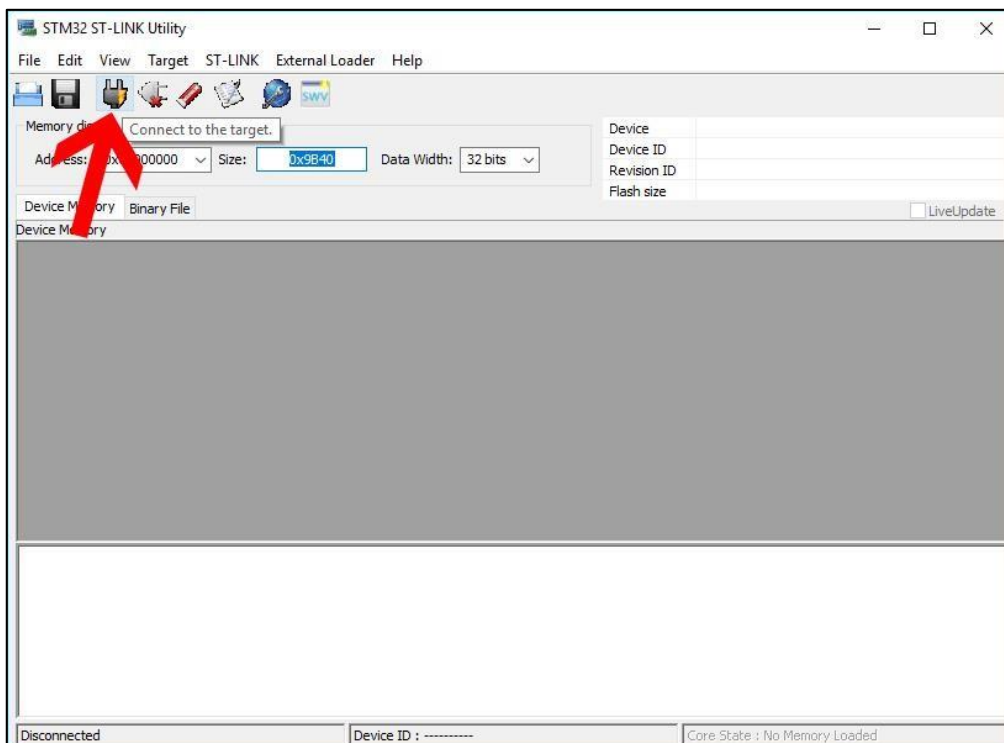
Follow the instructions on the wizard to install the Program.

Alternatively you can download the software via the official Website.

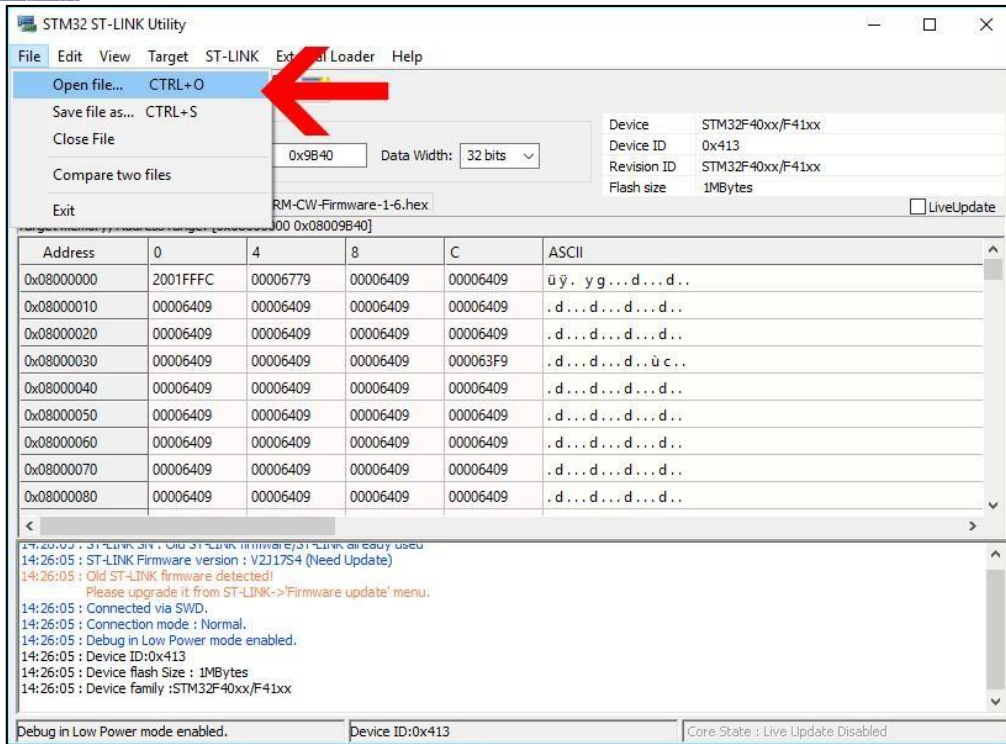
<http://www.st.com/en/development-tools/stsw-link004.html>



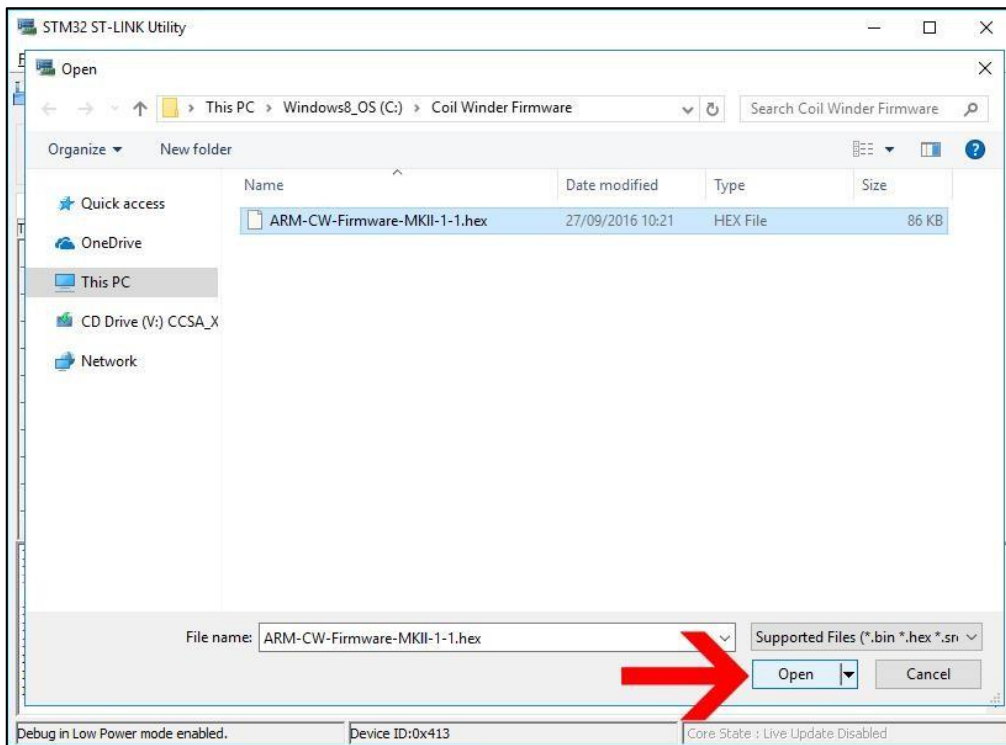
Once installed run the program.



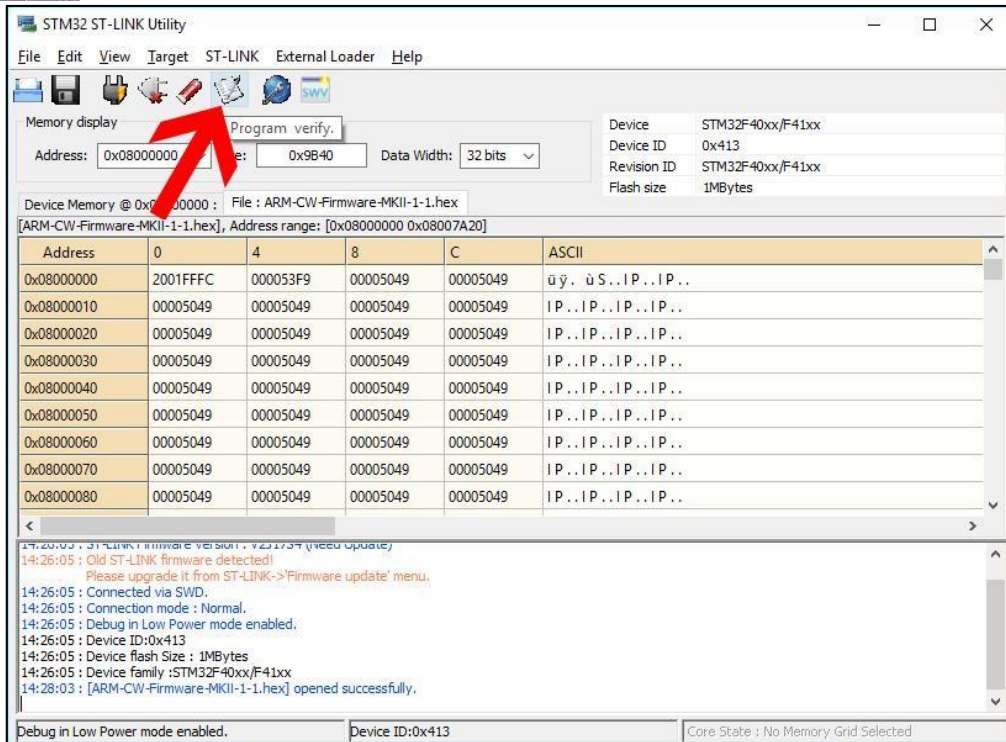
Ensure your JTAG Programmer is connected to your PC and click the Connect button.



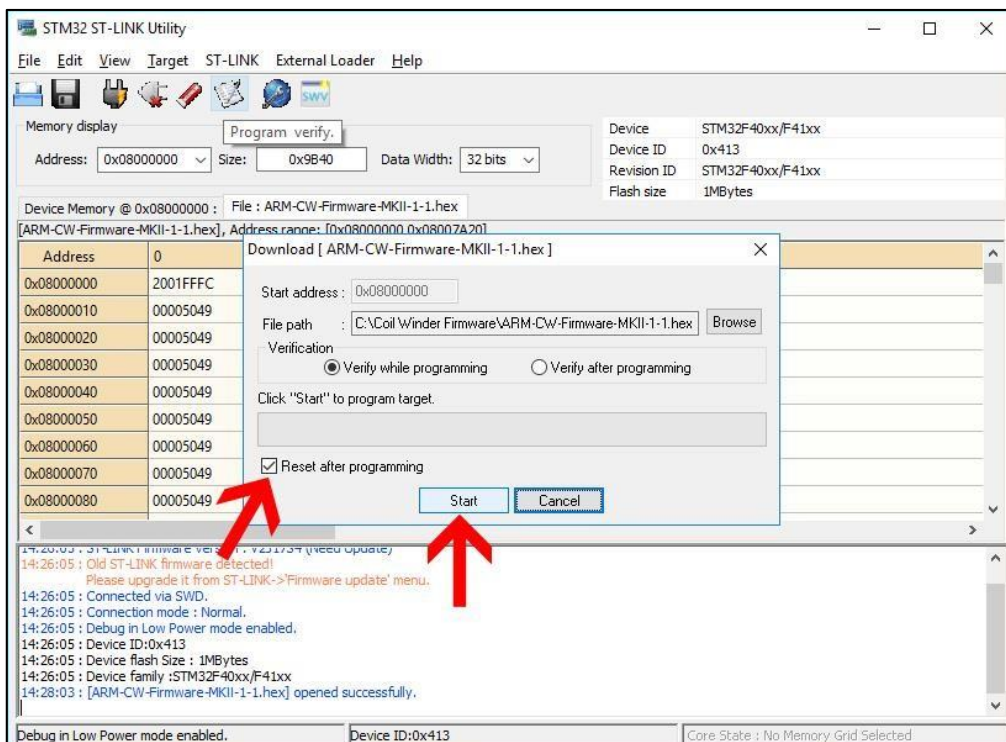
Along the top bar click “File” then select “Open file...” from the sub menu.



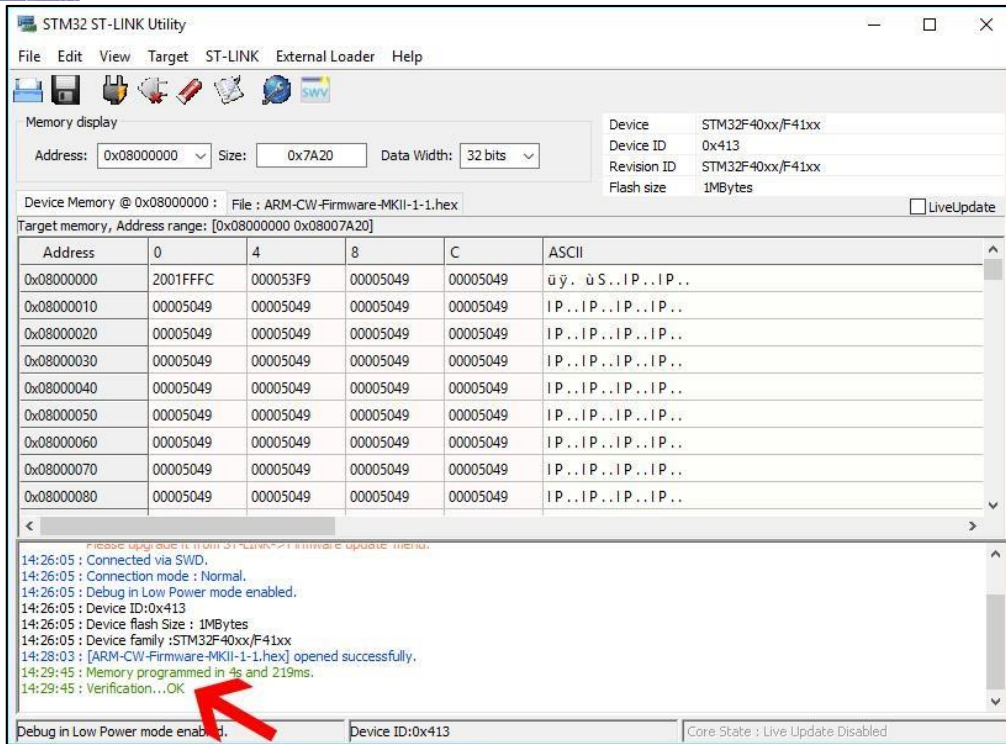
Locate the latest firmware file and click open.



Now click the Program Verify button.



Check the "Reset after programming" checkbox and click the start button.



Once complete you should see a verification...OK message in your log and now your Coil winder has the latest Firmware.

Now re-assemble the coil winder following the beginning steps in reverse.