

Paokai Chip

Programming Procedure

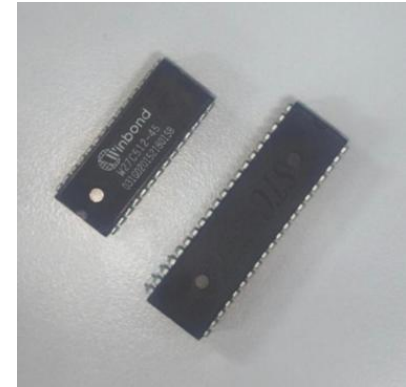
Tools needed



Top 2013 Programmer



Programmer PSU



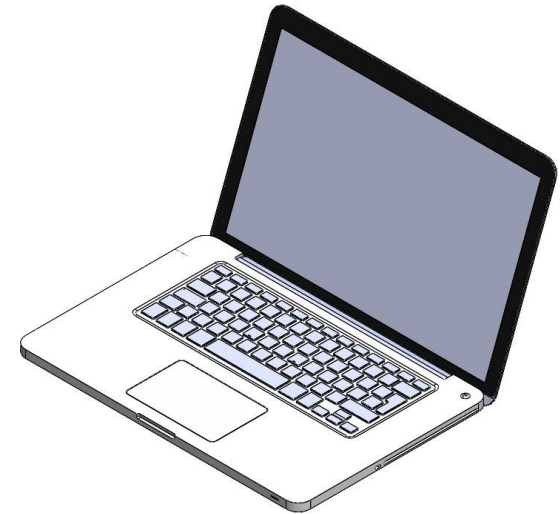
Program chips
W27C512 – 28 pins
STC12C5A60 – 40 pins



USB type A to USB Type B

Link: [Chip programmer](#)

Software and Programs
(Do not restructure this folder)



Working PC

Rules to be followed strictly before proceeding.

This process should only be performed on a programming PC that has a local administrator account. Contact Sysadmin to set up the programming station PC. Follow these rules strictly before using this guide.

1. Do not attempt to do the programming to a regular **CoinOp Workstation PC**.
2. Download the software to a regular PC and use USB thumb drive to transfer the files to the programming PC.
3. Some of the software is a community version and does not have a security certificate. This does not mean it is harmful to the system; it only means it is not official software.

Steps Summary and Description

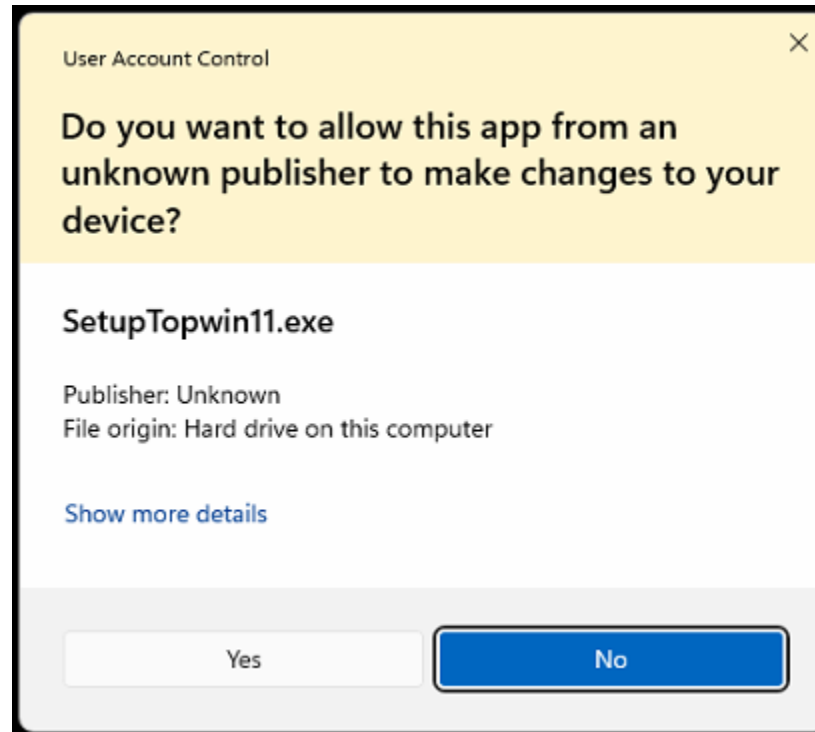
Step	Description
1. Software Preparation	Perform the initial setup of the designated Windows programming PC . Download the required Software and Programs folder without restructuring it, then install the Topall programming software . This is a one-time setup and does not need to be repeated for each chip.
2. Programmer & Chip Preparation	Connect the TOP2013 Programmer to the programming PC using the USB Type-A to USB Type-B cable and connect the programmer PSU. Insert the required chip into the ZIF socket, following the chip positioning drawing and chip notch orientation . Ensure all pins are correctly seated before locking the chip with the programmer lever.
3. Program File Selection	Open Topall_11 and load the required program from the Chip Programs folder. Refer to the Program to Chip Matrix to confirm that the selected program corresponds to the correct machine type, motherboard, and chip. Confirm the file addressing and program file format when prompted.
4. Chip Selection	In Topall, open the Chip Selection window and select ALL under Type. Search for the chip currently installed in the programmer, select the correct chip from the search results, and click OK to confirm.
5. Pre-Programming Verification	Before programming, confirm that the correct program file is loaded and the correct chip is selected . Check that all required Run Items — Erase, Blank, Write, and Verify — are selected before proceeding.
6. Chip Programming	Click GO to begin programming the chip. Do not remove or disturb the chip while programming is in progress. The programming process normally takes approximately 10–15 seconds .
7. Programming Verification & Completion	Monitor the programming status in the Output tab. Confirm that the process finishes successfully and displays “Completed.” Once programming is complete, unlock the ZIF socket and carefully remove the programmed chip.

Software Preparation

Download all Chip programs and extract to Desktop in this link: [Chip Programming](#)

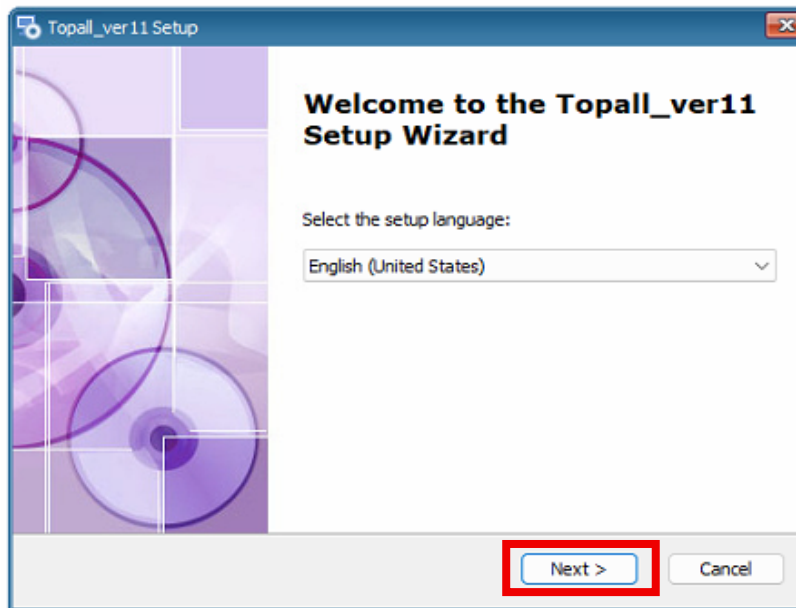
Topall Software Installation – programmer software

1. Go to the downloaded file location, **Downloaded folder/Topall2013 install/**, and double-click SetupTowin11.exe.
2. A security prompt may appear during installation. Click Yes, or contact Tech Support for guidance.

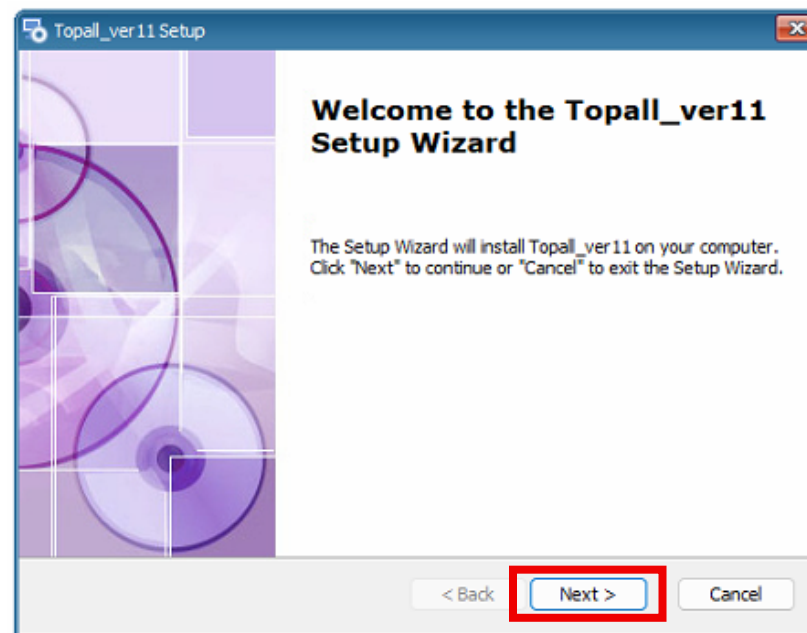


3. Follow the steps below:

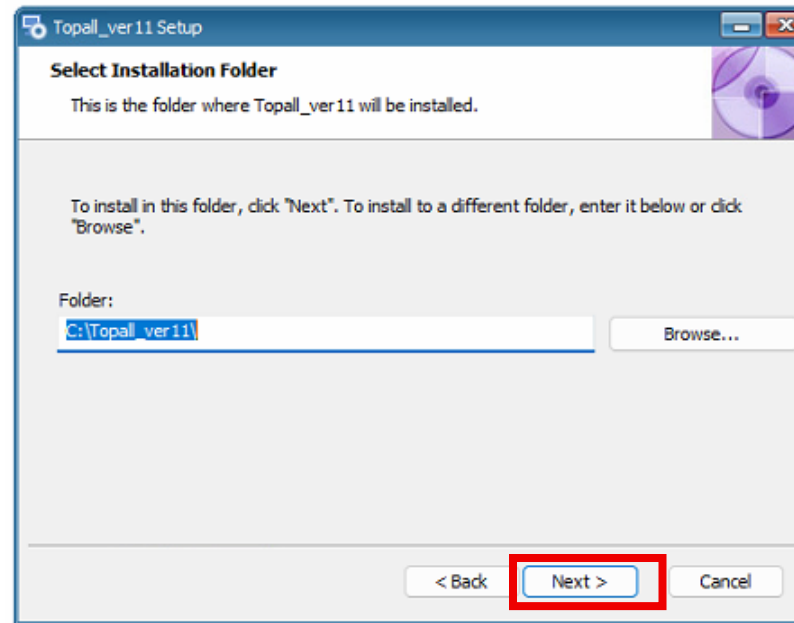
1. Choose **English** as the language.
Click **NEXT** to continue



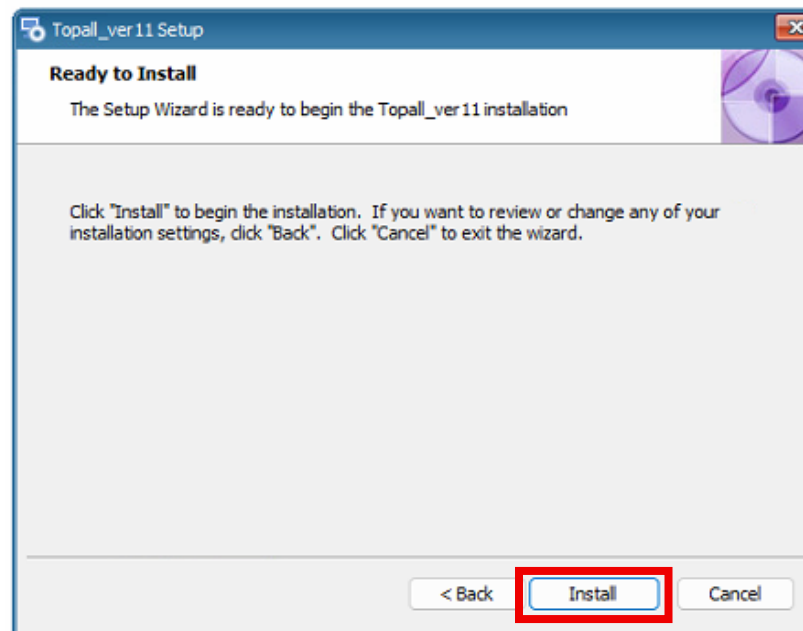
2. Click Next when the setup wizard starts



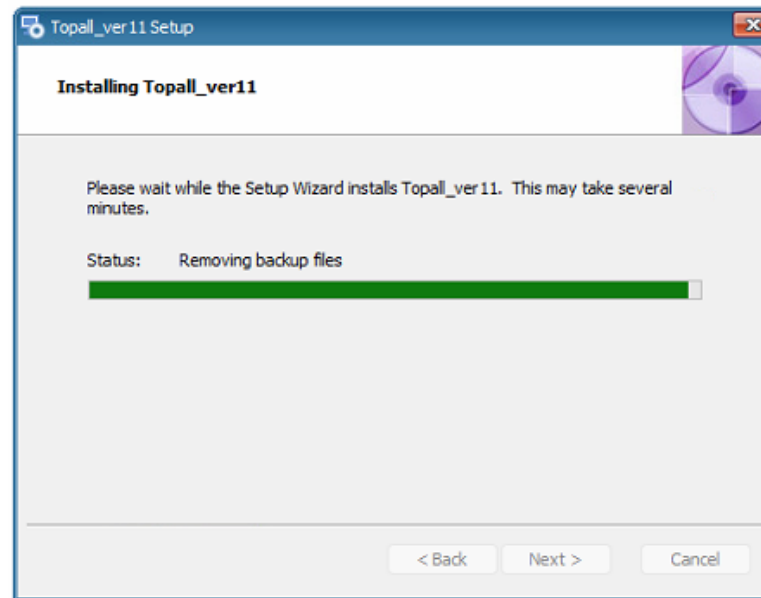
3. Choose the installation directory



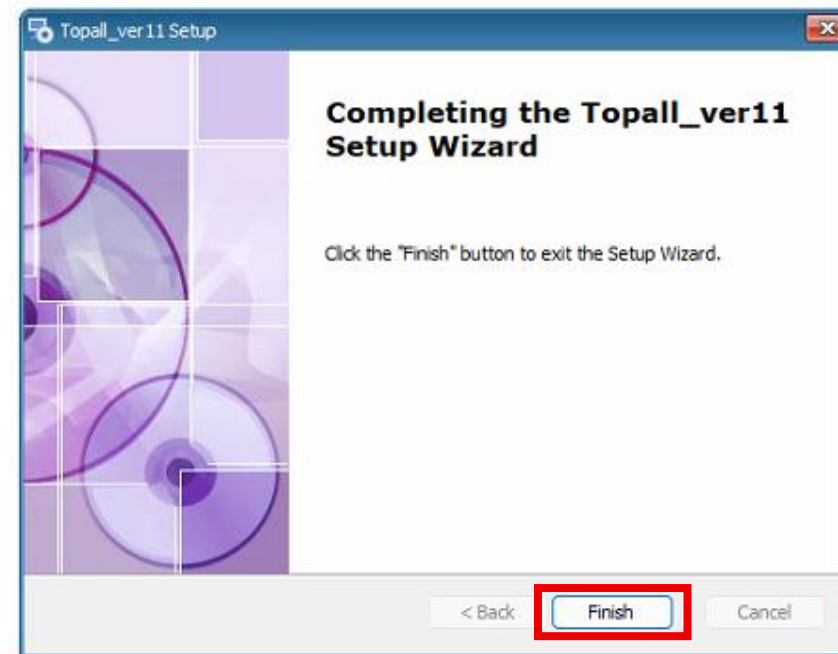
4. Click Install after setup of installation directory



5. Wait for it to finish installation

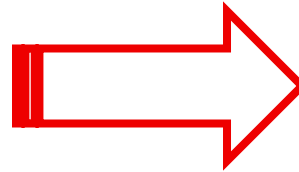
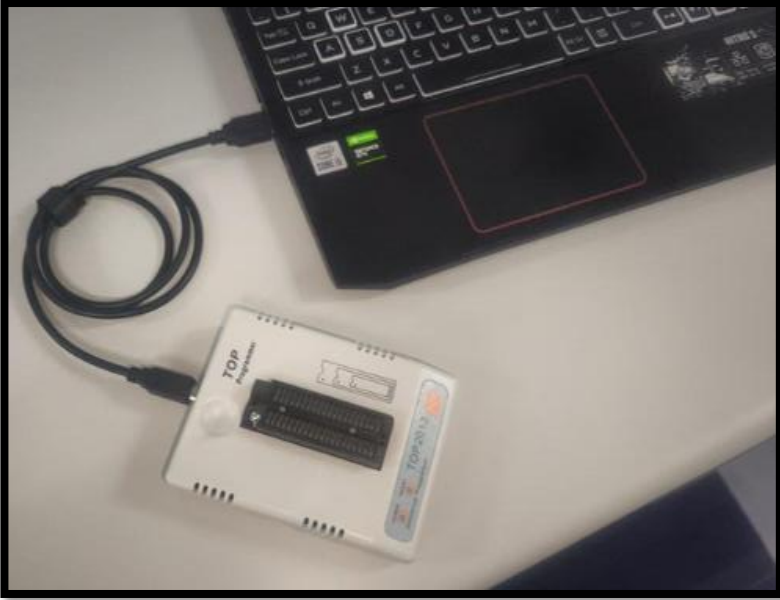


6. Click on finish when installation is completed

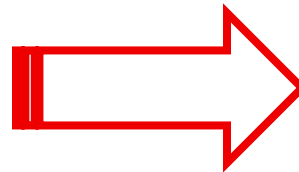


Paokai Chip Program Upload

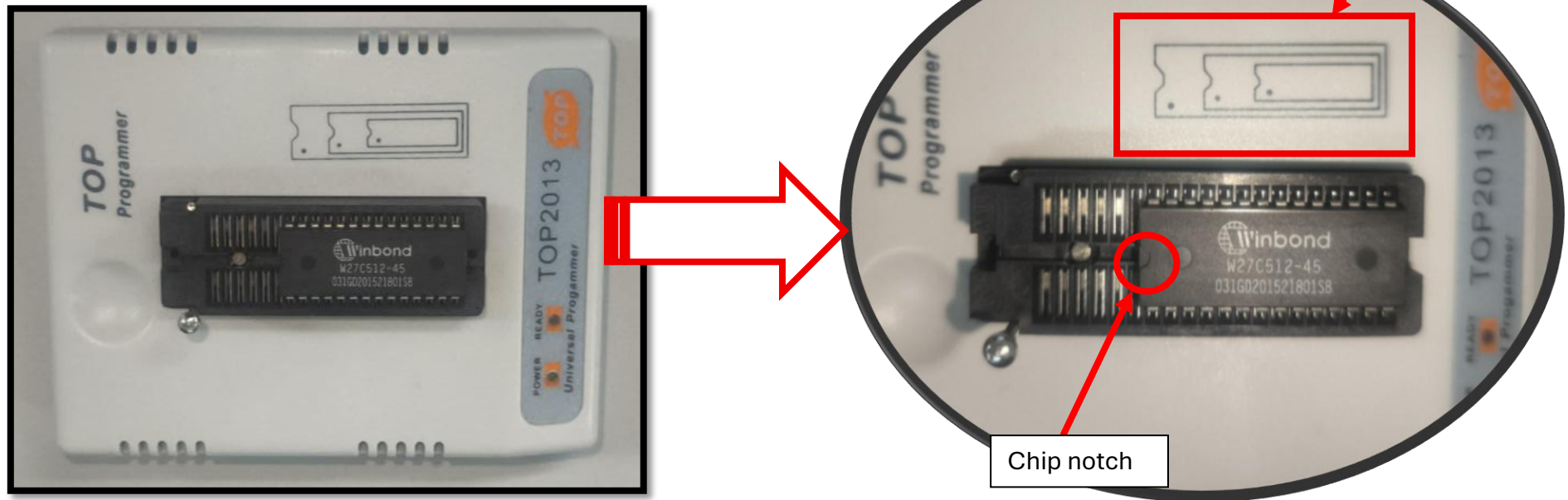
1. Connect the programmer to a **working PC** using the **USB A to USB B cable**



2. Connect the Programmer PSU to a power point and connect the output to the programmer



3. Insert the chip

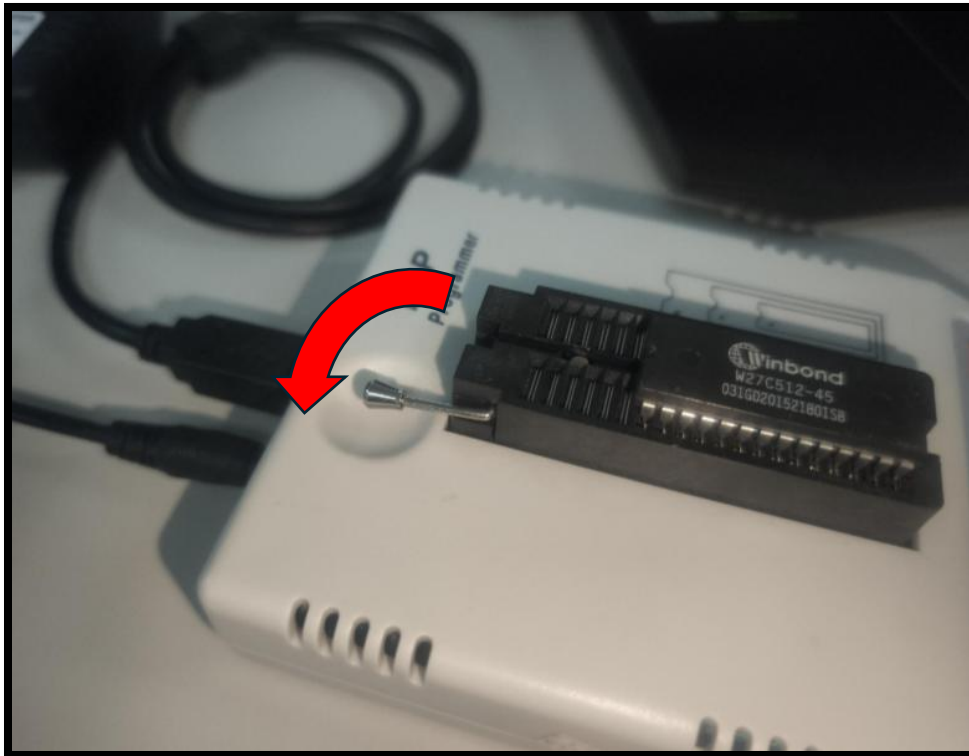


Chip Position Guide

1. **Match the chip notch with the positioning drawing on the programmer.**
The semicircular notch on the chip must face the same direction as shown in the **chip positioning drawing**.
2. **Position the chip at the end of the ZIF socket as shown.**
Do not center the chip in the socket. Align it with the **end of the ZIF socket indicated by the positioning drawing**.
3. **Check all pins before locking.**
Make sure every chip pin is correctly seated in the ZIF socket, then lower the lever to lock the chip in position.

IMPORTANT: Incorrect chip orientation or socket position may cause programming to fail. Always check the positioning drawing before locking the ZIF socket.

4. Lock the chip into the programmer by pulling down the programmer lever



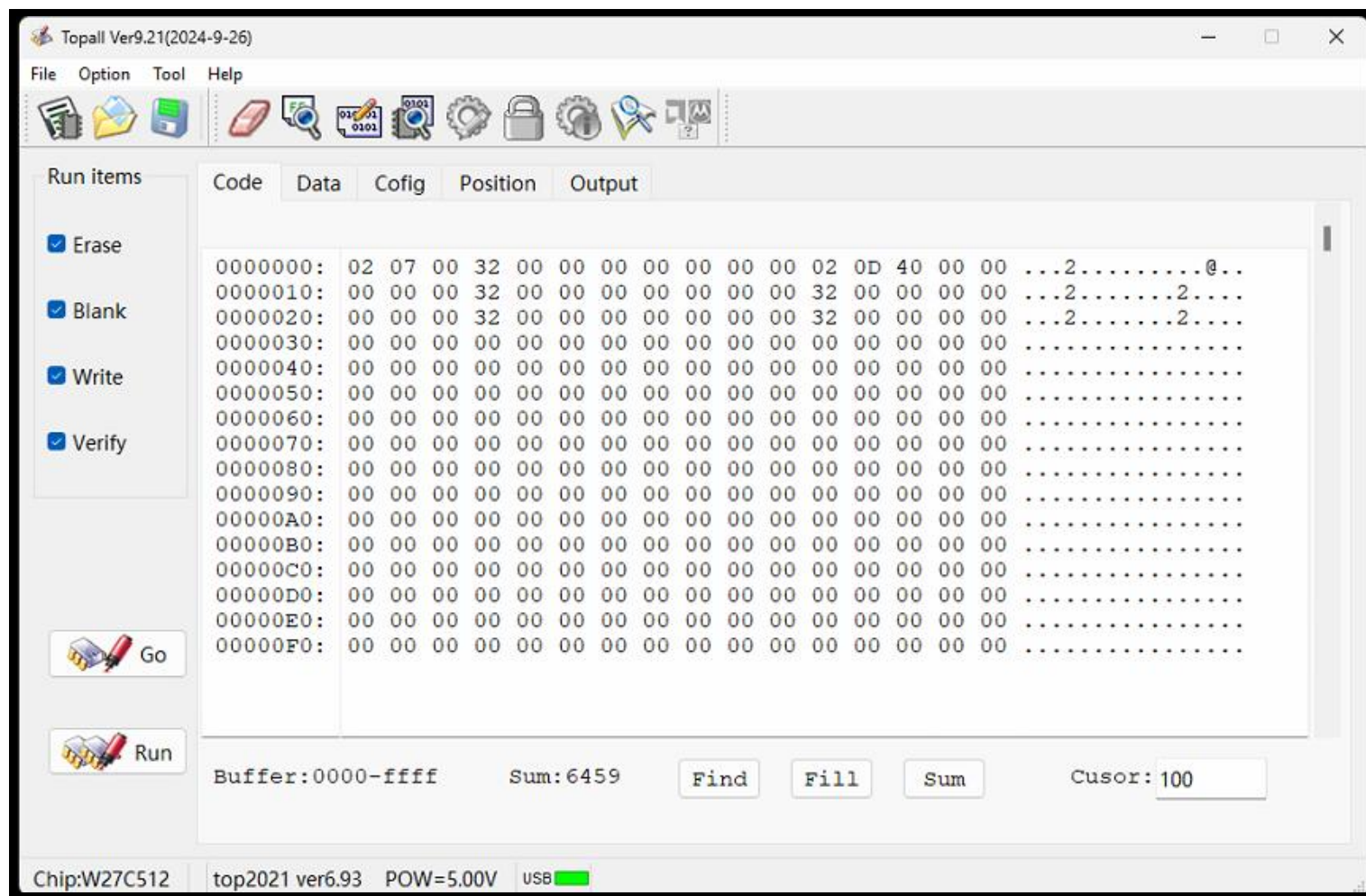
Note:

1. Make sure that the chip is properly positioned before locking in.
2. There should be very minimal pressure when locking the chip in. If it's hard to pull down, don't force it and check the position again.

5. Open Topall_11 software from your desktop

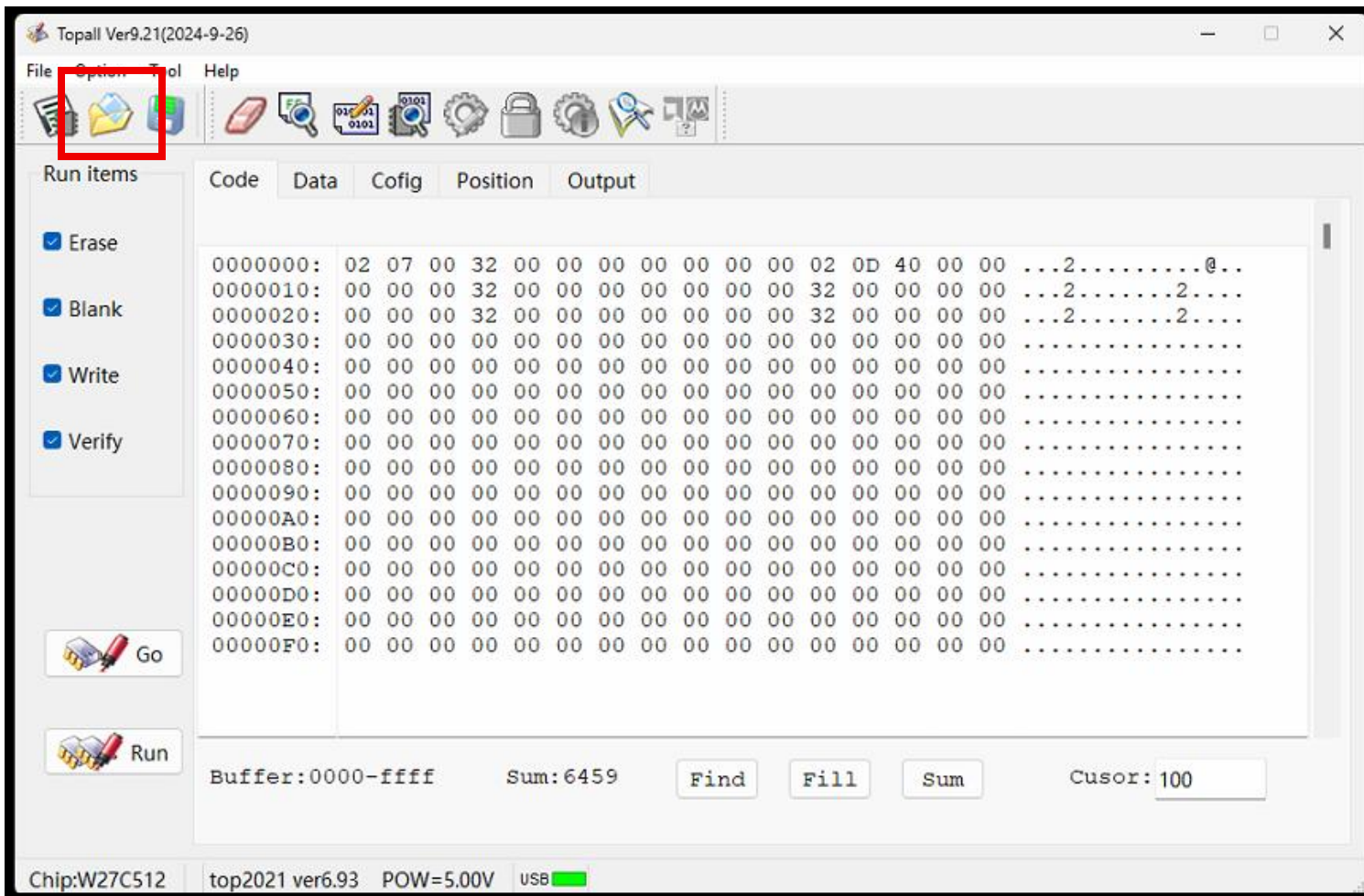


6. You should be directed to this screen – if not contact tech support

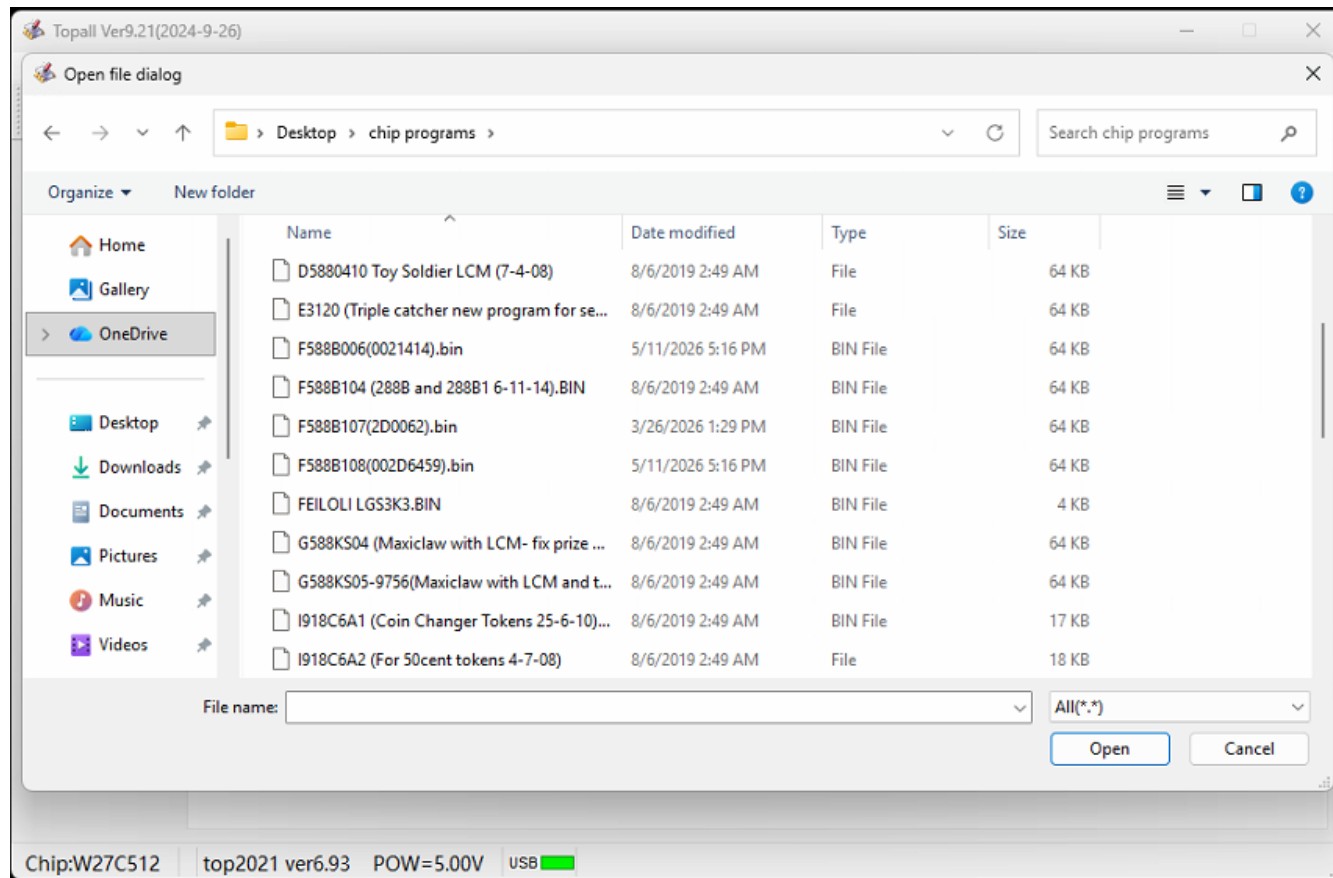


7. Program Selection

- Click on the envelop icon on the top left



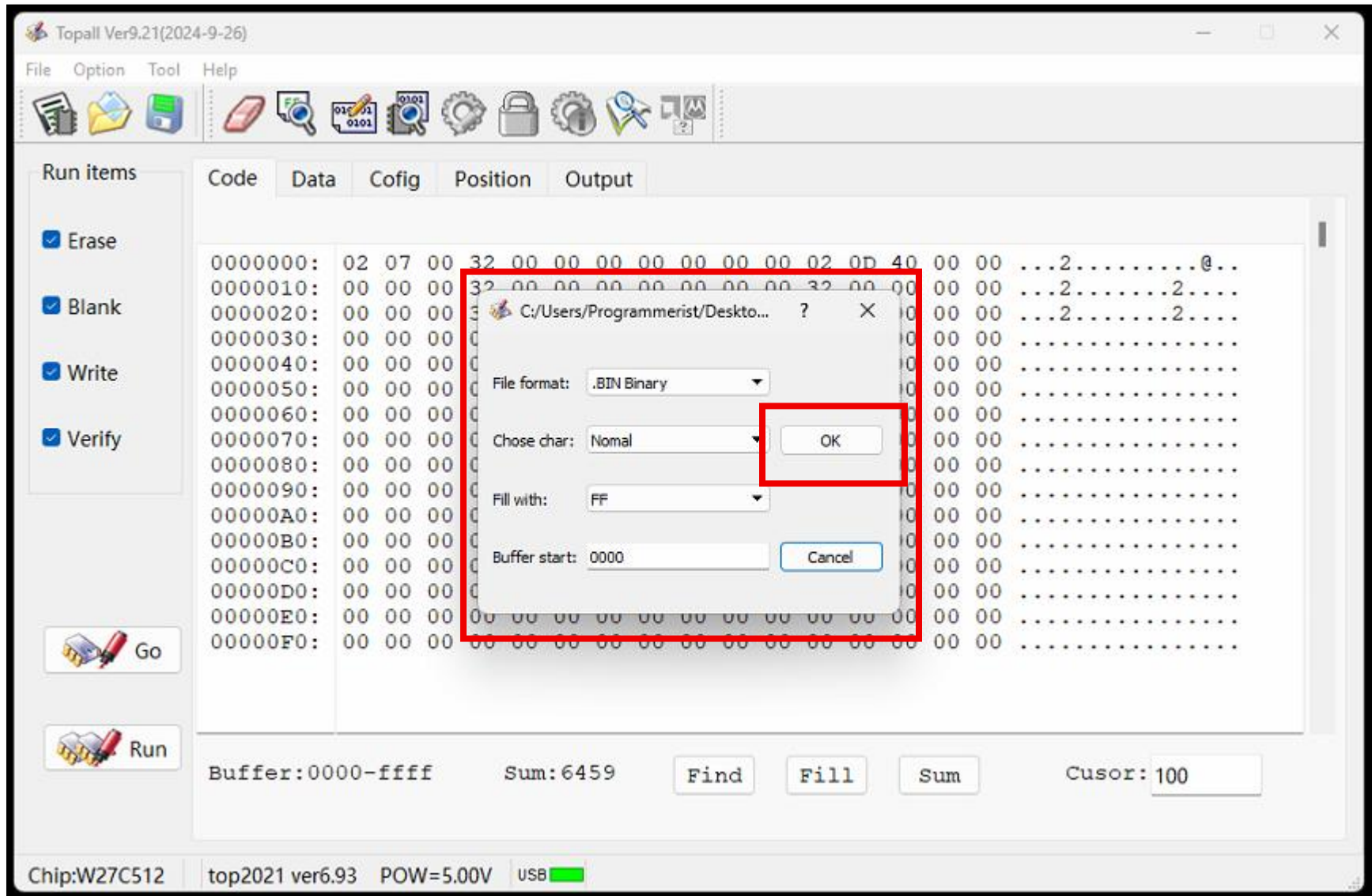
- b. Browse to your downloaded files with a folder named Chip Programs then select program you want to upload to the chip.



Program to Chip Matrix

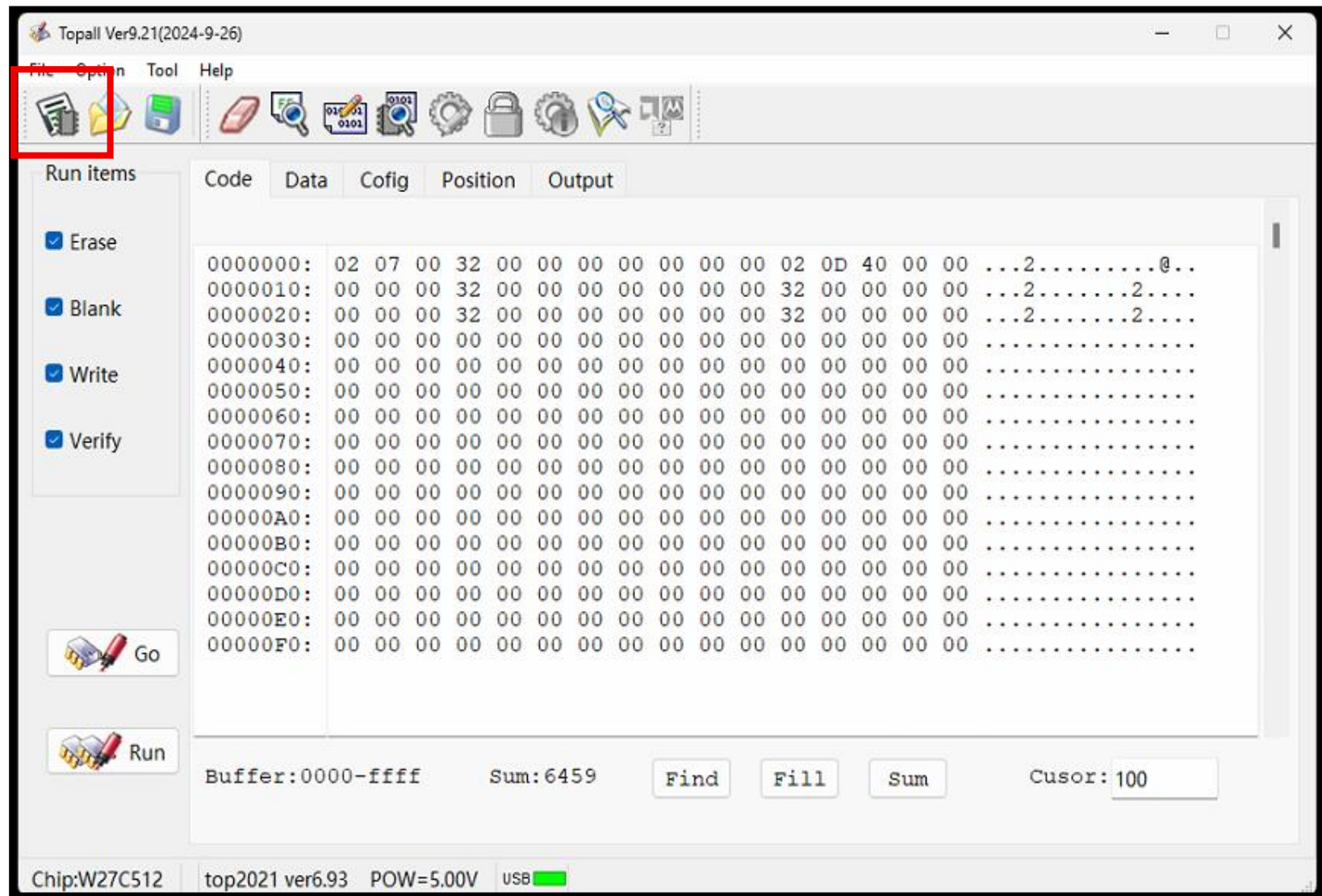
Machine Type	Motherboard	Program Chips	No. of Pins	Chip Number
288 (STD)	W150104	N288AU002	40 pins	STC12C5160
288B1L (the claw large)	W150104	NB1LA1L3	40 pins	STC12C5160
288B (Jumbo)	W100411	F588B108	28 pins	W27C512
288B1 (Large)	W100411	F588B108	28 pins	W27C512
288K (Maxi Claw, Prize Depot Maxi)	W070202	G588KS05	28 pins	W27C512
518 (Iron Claw)	W100411	W518A106	28 pins	W27C512

c. A pop-up will appear for file addressing and program file format confirmation – Click OK

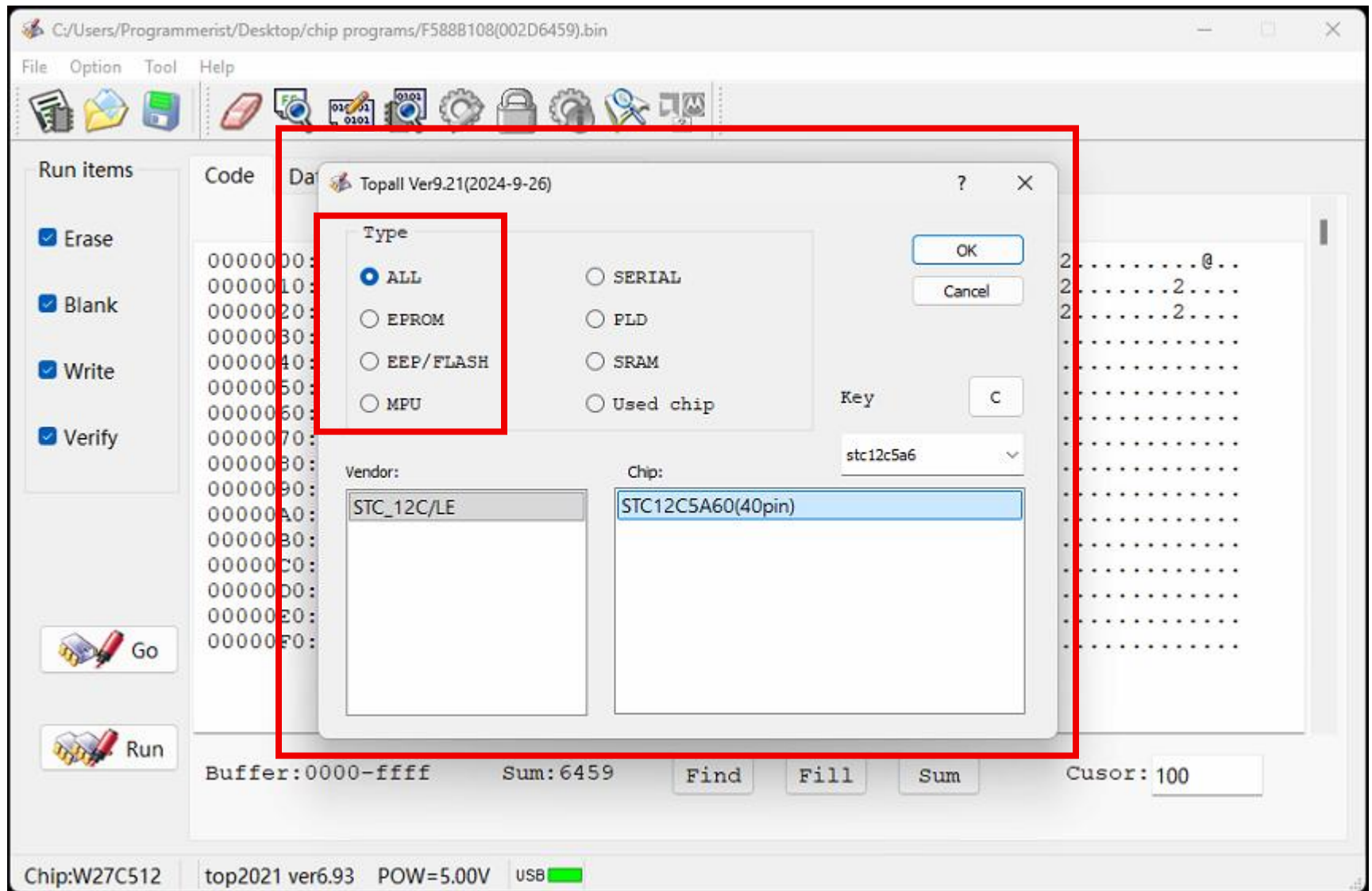


8. Chip Selection

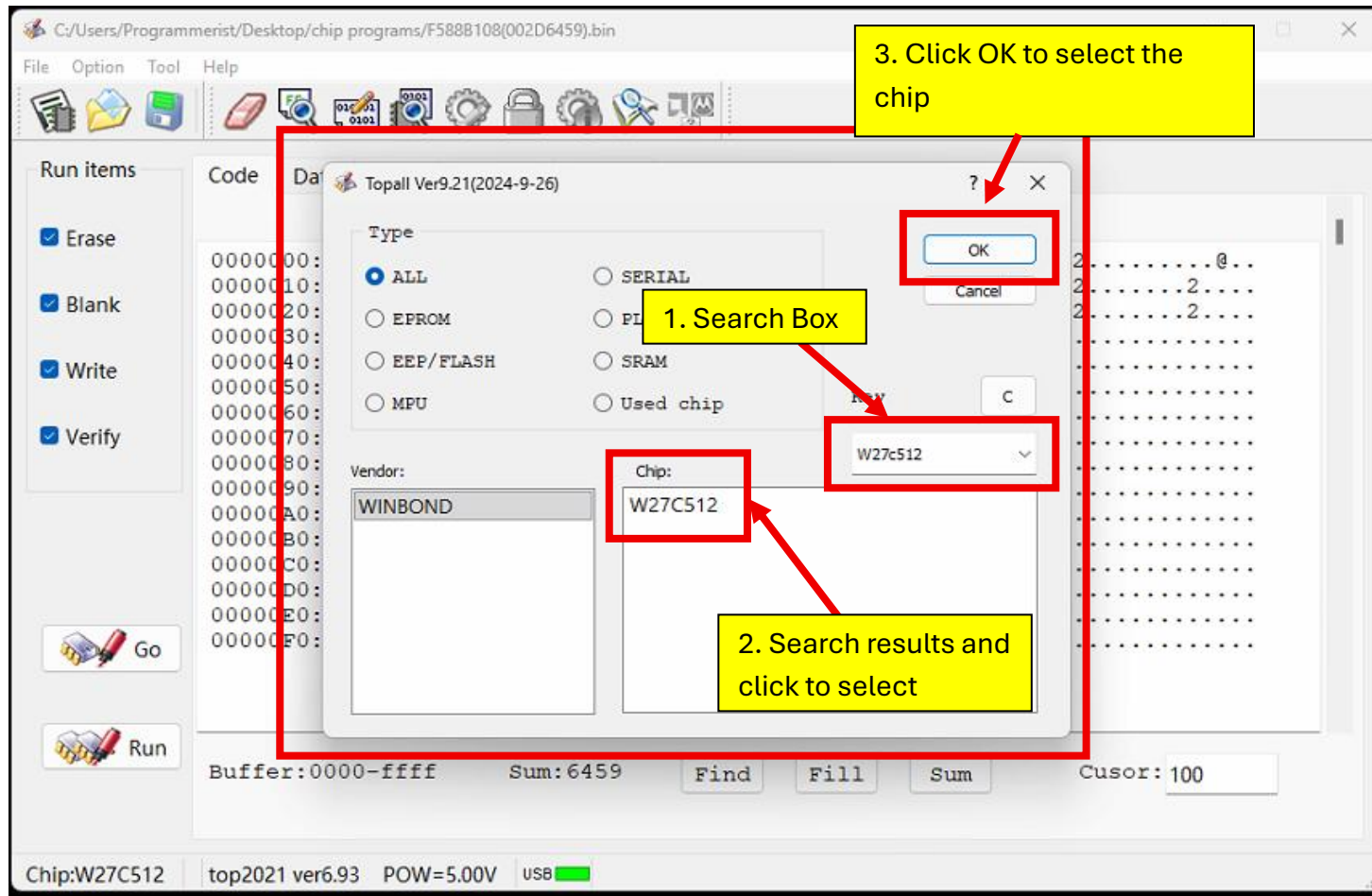
- Click on the chip icon on the top left side of the software window



b. On the pop-up window select the “**ALL**” under **Type** Option

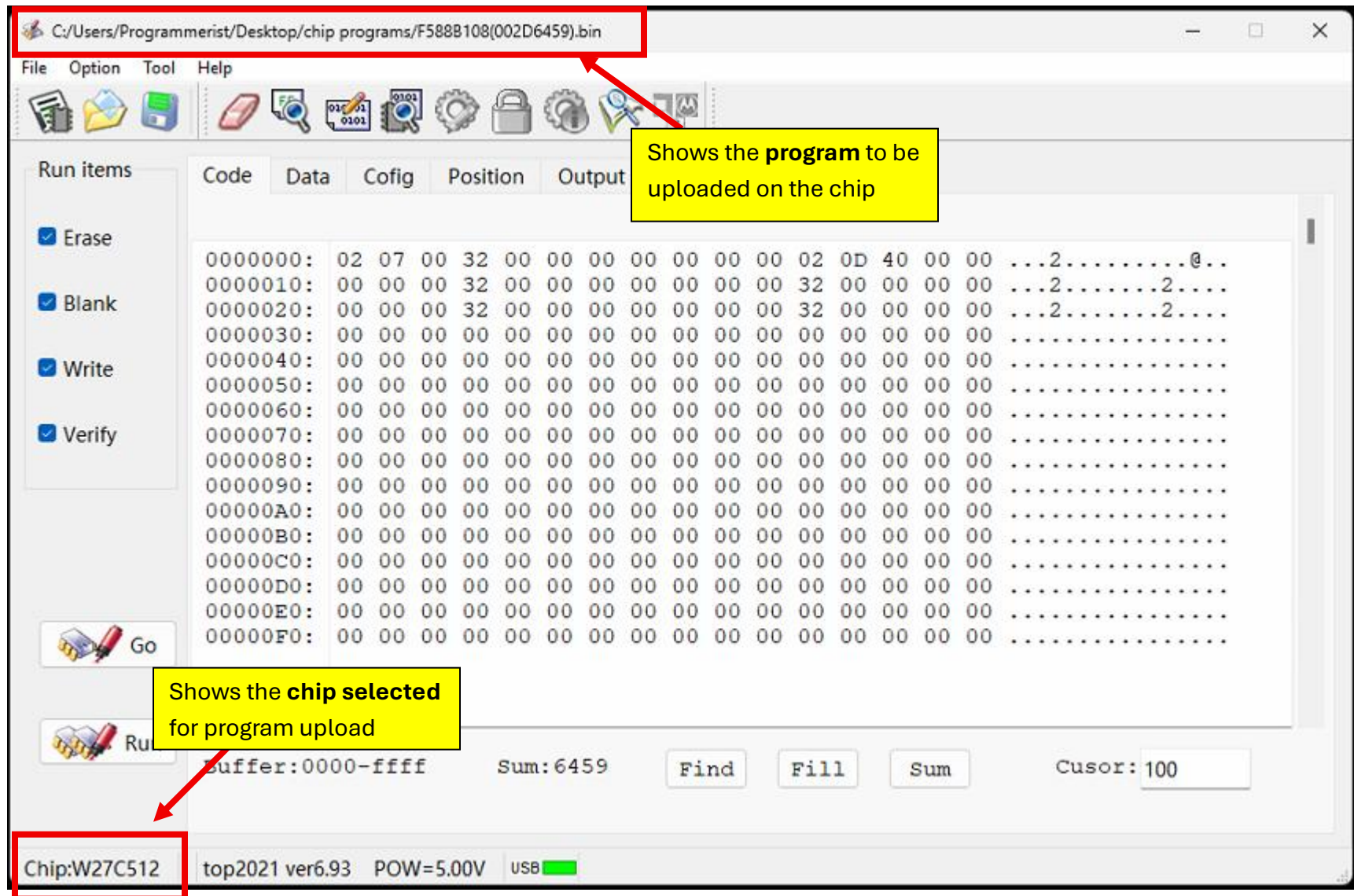


c. Type in the search box the chip that is currently in the programmer, then select chip and click ok to confirm.

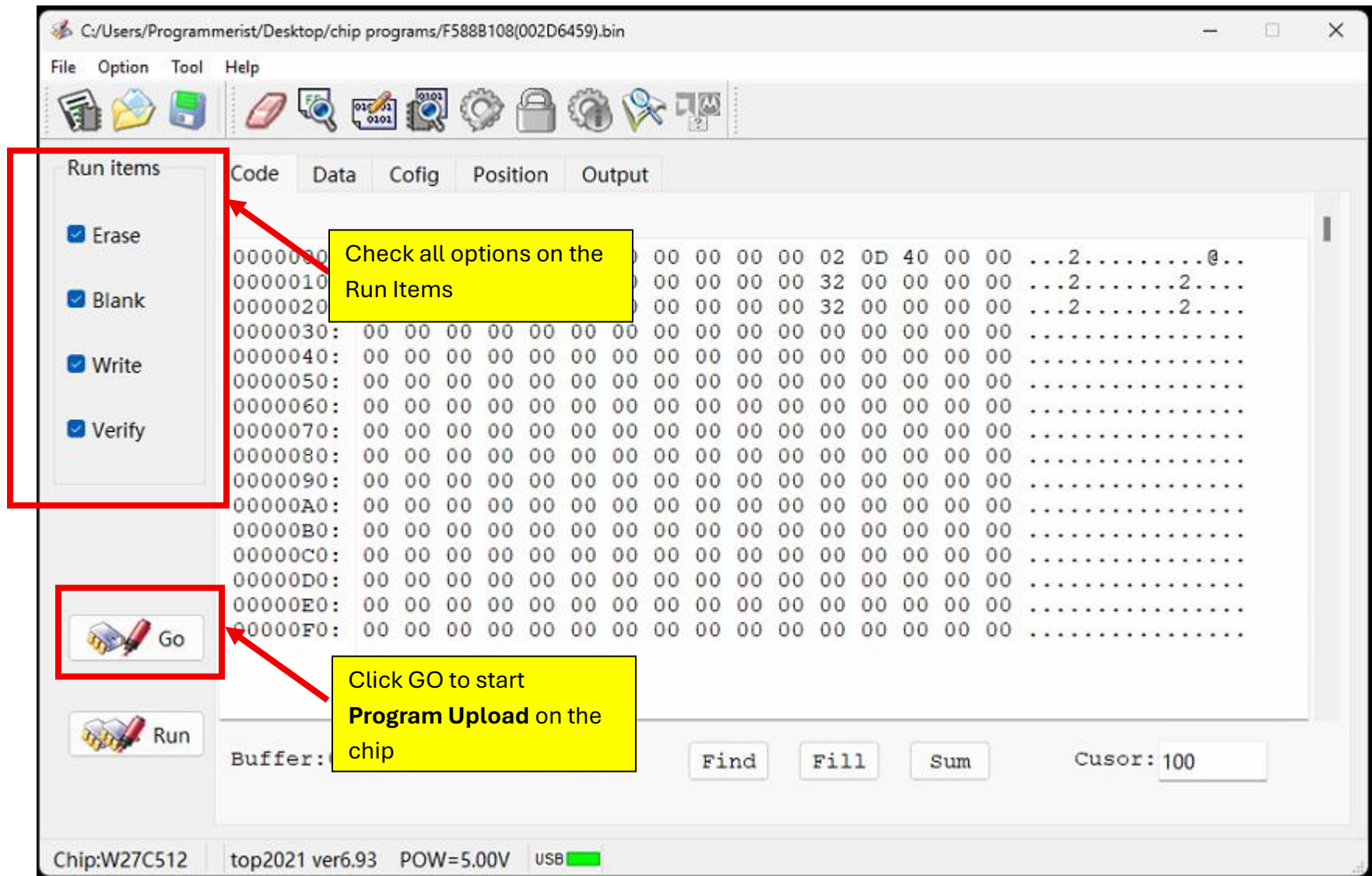


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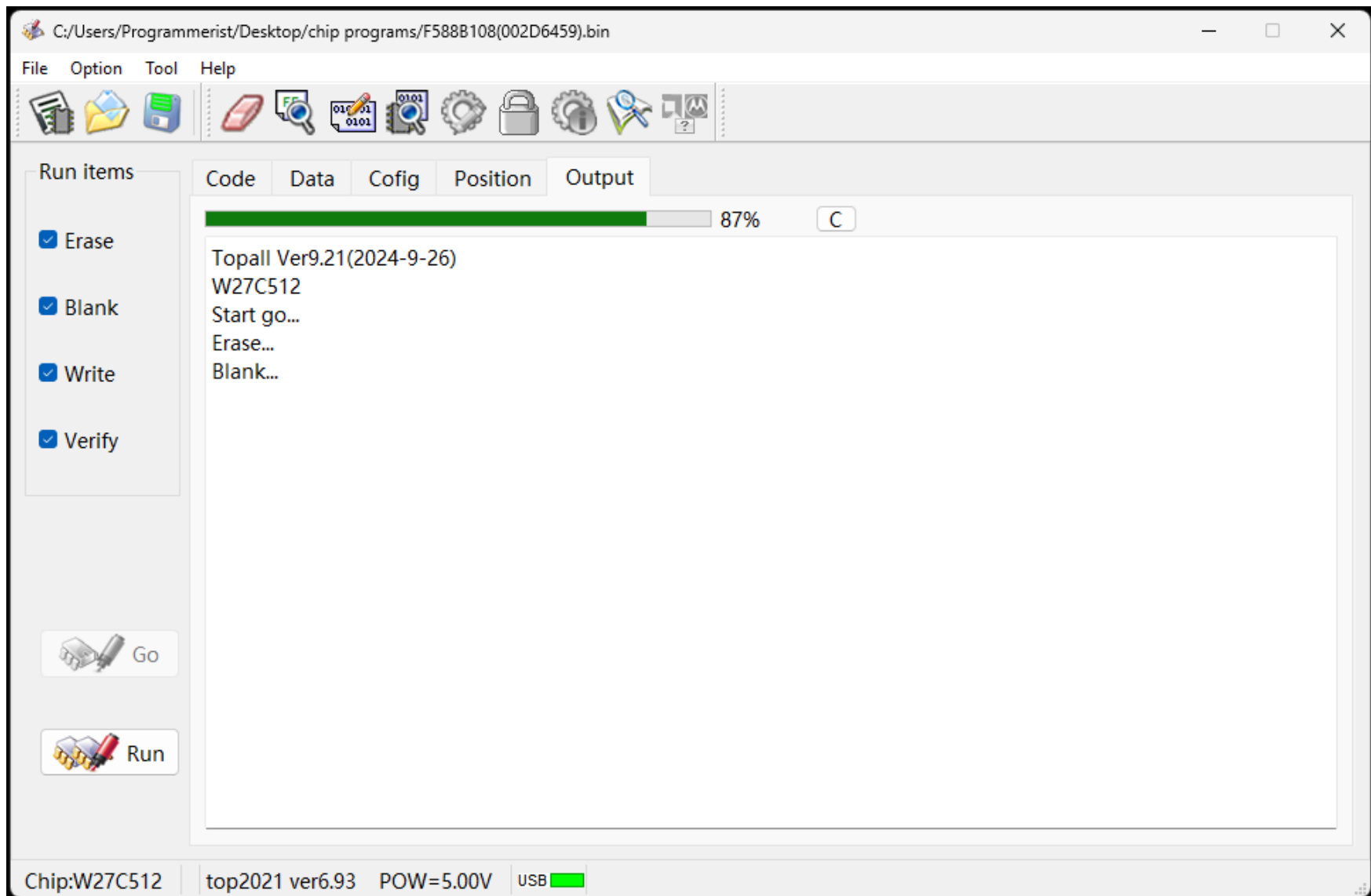
d. Confirm Chip selection and program loaded before starting to upload program



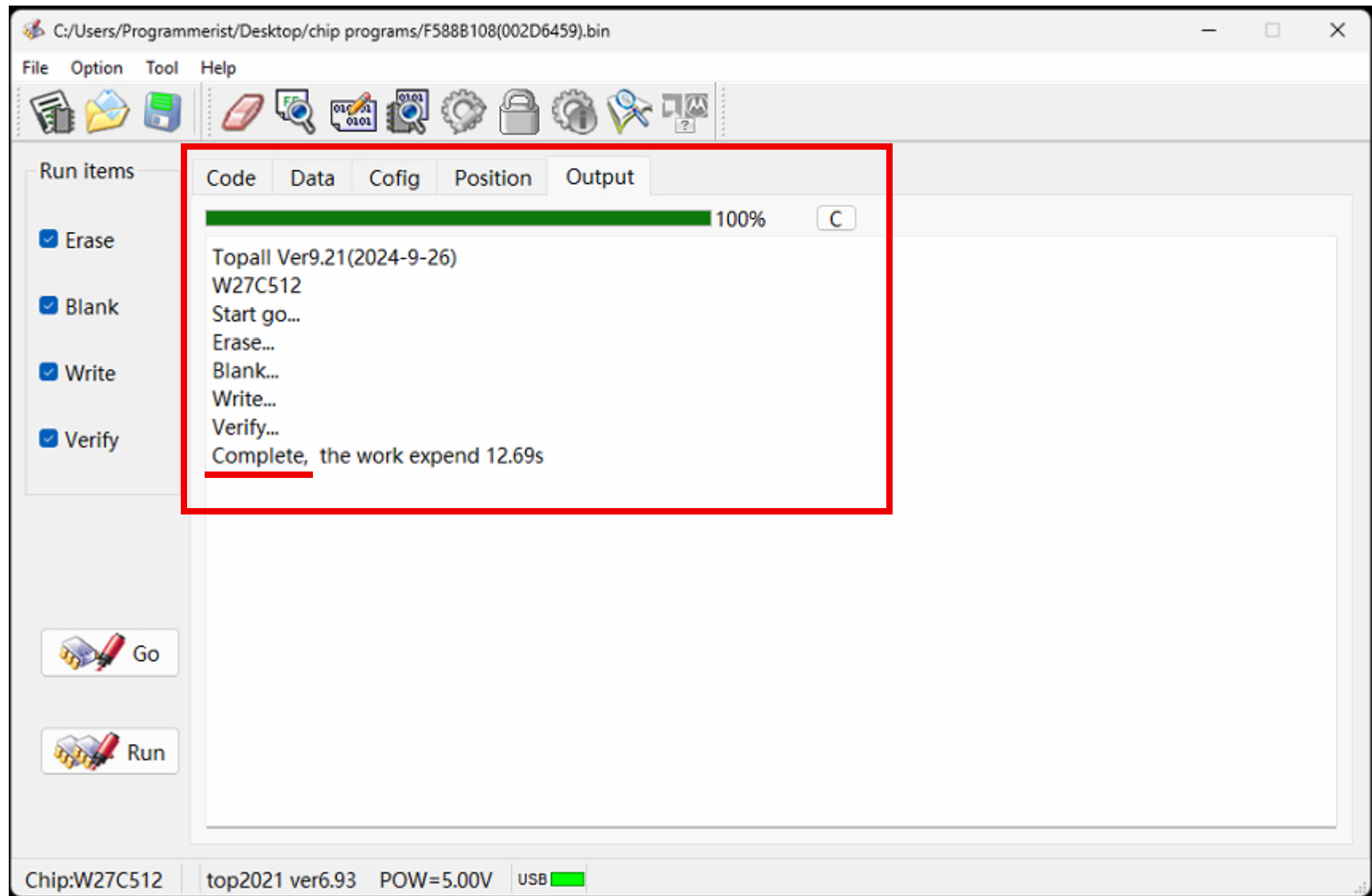
e. Confirmation of **"RUN ITEMS"**, then press **GO** to start programming



f. Wait for the upload to finish – usually take 10 – 15 seconds.



- g. The task status and elapsed time will be shown in the Output tab. Once the upload is complete, the prompt should display “Completed.”



Frequently Asked Questions

Question	Answer
1. What programmer is used for Paokai chip programming?	Use the TOP2013 Programmer together with its programmer PSU and a USB Type-A to USB Type-B cable connected to the programming PC.
2. Can I use a regular CoinOp workstation PC for chip programming?	No. Programming should only be performed on the designated programming PC with a local administrator account. Do not perform the procedure on a regular CoinOp workstation PC.
3. Do I need to install the programming software every time I program a chip?	No. Topall software installation is a one-time software preparation . Once the programming PC has been correctly configured, the installation does not need to be repeated for every chip.
4. What chips are supported by this programming procedure?	This guide covers the W27C512 (28-pin) and STC12C5A60 (40-pin) program chips.
5. How do I know which program file should be loaded onto the chip?	Refer to the Program to Chip Matrix in the guide. Match the machine type and motherboard with the specified program before programming the chip.
6. How should the chip be positioned in the ZIF socket?	Match the semicircular notch on the chip with the chip positioning drawing on the programmer. Position the chip at the indicated end of the ZIF socket ; do not center it. Check that every pin is properly seated before locking the socket.
7. What should I do if the ZIF socket lever is difficult to lock?	Do not force the lever. Very little pressure should be required. Release the lever and check that the chip is correctly positioned and that all pins are properly seated before trying again.
8. How do I load the program file into Topall?	Click the folder/envelope icon in the upper-left area of Topall, browse to the Chip Programs folder, and select the required program file. When the file addressing and program format confirmation window appears, click OK .
9. How do I select the correct chip in Topall?	Click the chip icon , select ALL under Type, enter the chip number in the search box, select the correct chip from the search results, and click OK .
10. What should I check before clicking GO?	Confirm that the correct program file is loaded , the correct chip is selected , and all required Run Items are checked. Only start programming after these items have been verified.
11. Which Run Items should be selected?	Check all Run Items shown in the guide: Erase, Blank, Write, and Verify before starting the programming process.
12. How do I start programming the chip?	After confirming the program, chip selection, and Run Items, click GO . Topall will then begin programming the installed chip.

13. How long does chip programming normally take?

The programming process normally takes approximately **10–15 seconds**. Wait for the process to finish before removing or disturbing the chip.

14. How do I know if programming was successful?

Check the **Output** tab in Topall. The task status and elapsed time are displayed there. Successful programming should finish with the message “**Completed.**”

15. Can I remove the chip immediately after clicking GO?

No. Wait until Topall has finished the programming operation and the Output tab displays “**Completed.**” Only then should the chip be unlocked and removed.

16. Can I program another chip using the same program file?

Yes. If the next chip requires the same program, the program file does not need to be loaded again. Install the next chip correctly, confirm the chip/program settings, and repeat the programming procedure.

17. What should I do if Topall does not open to the expected programming screen?

Stop the procedure and **contact Tech Support** rather than continuing with programming. The guide specifies that the expected Topall screen should appear after opening the software.

18. Can I restructure or rename the downloaded programming folders?

No. Keep the supplied **Software and Programs** folder structure unchanged. The guide specifically instructs users **not to restructure this folder**.

19. What should I do if Windows displays a security prompt during Topall installation?

The guide states that a security prompt may appear. Click **Yes** to continue or contact **Tech Support** for guidance if assistance is required.

20. What are the most important checks to prevent programming the wrong chip?

Before clicking **GO**, verify three things: **the physical chip and its orientation, the chip selected in Topall, and the program file loaded in Topall**. These should all correspond to the intended machine and motherboard.