

C4 LINK2 PROGRAMMER

→ INSTRUCTIONS ←

VERSION 1.03



Date	Version	Summary of Changes
November 7, 2025	1.03	Added the Restoring a Bricked Processor section.
August 11, 2025	1.02	Reviewed the <i>Software Loading Instructions</i> section.
June 30, 2025	1.01	Reviewed the <i>Software Loading Instructions</i> section.
March 3, 2025	1.0	Initial Release

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1 Overview

This document provides step-by-step instructions for downloading, installing, and using the Link2 Programmer with C4 controllers. It explains how to load software onto the C4 controller using the Link2 Programmer.

2 Required Tools for Software Programming

The following tools are required to program the software:

1. A laptop with a Windows-based operating system.



2. The Link2 Programmer.



3. Controller software: The original controller software is stored on a flash drive inside the white job binder. If the flash drive is missing or contains outdated prints and software, Smartrise can provide a weblink to access the latest software and prints.



3 Application Download Instructions

To load software onto the Smartrise controller, the programming application must be downloaded to the laptop. This application is available on the flash drive. Follow these steps to download the C4 Link2 Programmer application:

1. Open the flash drive.
2. Navigate to **(5) – Smartrise Programs** and open the folder.

Name	Type
(0) - General	File folder
(1) - Controller Software	File folder
(2) - Drawings	File folder
(3) - Supplemental Documents	File folder
(4) - Manuals	File folder
(5) - Smartrise Programs	File folder
About These Folders.rtf	Rich Text Format
Open for internet access to latest S...	Internet Shortcut

3. Locate and open the **C4 Programmer** folder.

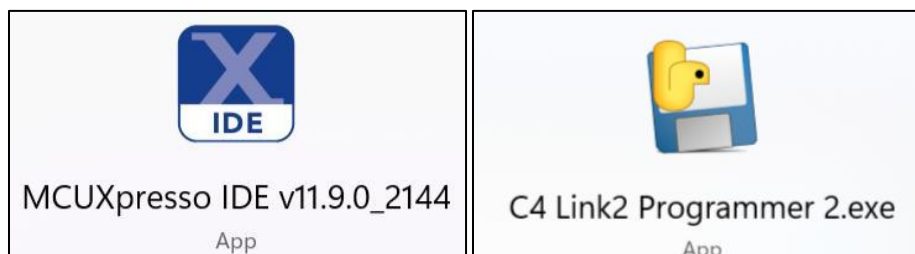
Name	Type
C4 Programmer	File folder

4. Download and run both applications on the laptop. Some laptops may have firewalls that prevent applications from downloading. For assistance, contact the system administrator.

Name	Type
mcuexpresso	File folder
C4 Link2 Programmer.exe	Application

5. Once completed, the two applications should appear on the desktop.

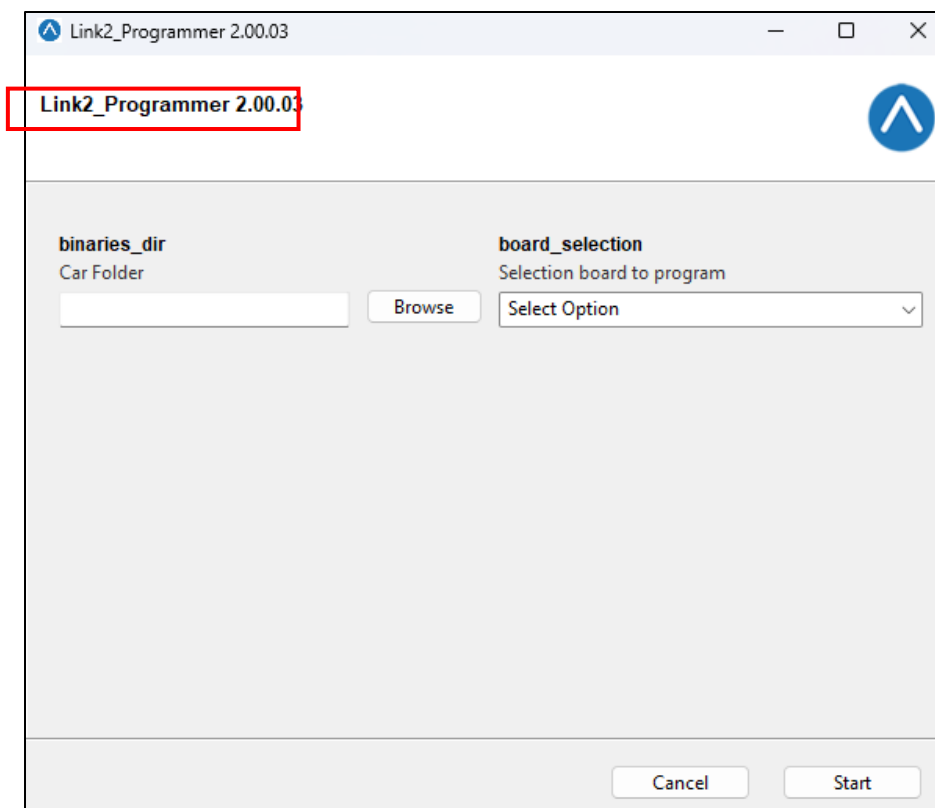
NOTE: MCUXpresso does not need to be opened, only installed on the laptop.



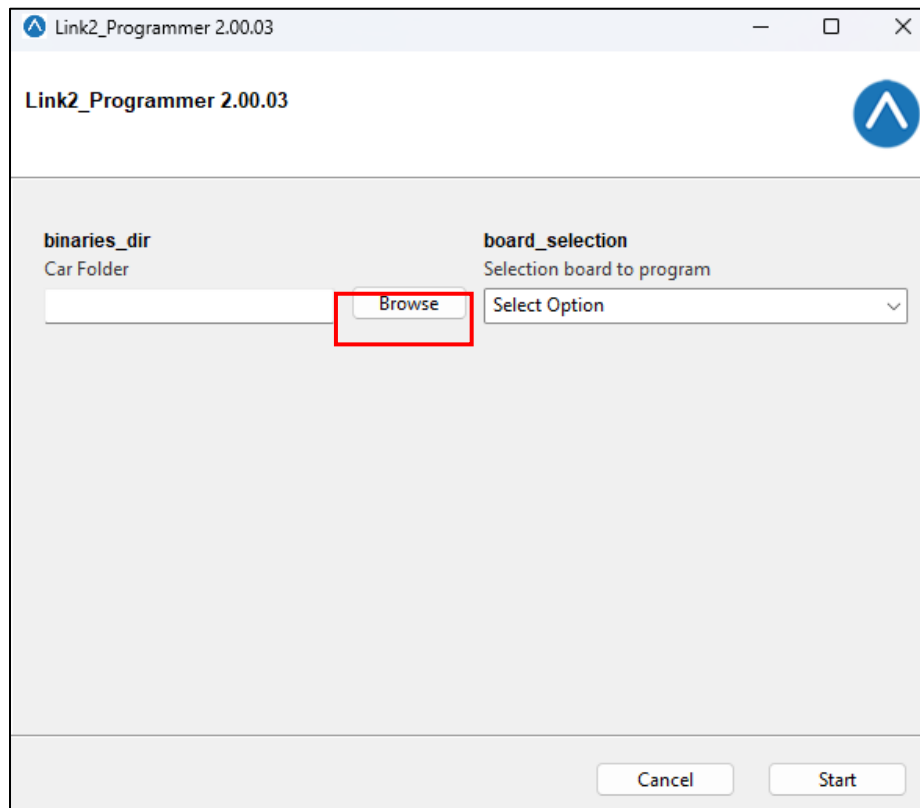
4 Software Loading Instructions

To ensure proper functionality, the controller software must be loaded onto the Smartrise controller using the Link2 Programmer. Follow the steps below to complete the process:

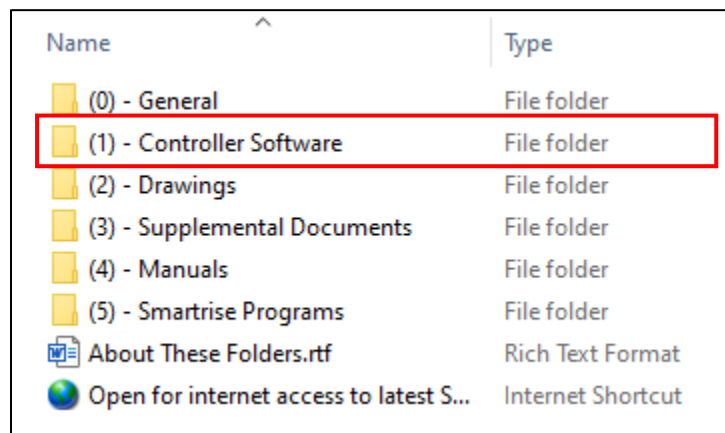
1. Connect the Link2 Programmer to the laptop via the USB port.
2. Open the C4 Link2 Programmer by double-clicking its icon. The application will automatically update to the latest version if connected to the internet. Ensure the application is up to date before proceeding.



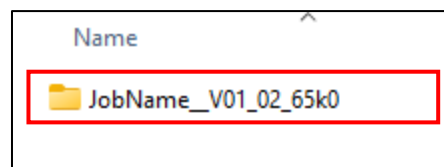
3. Browse for the controller software:



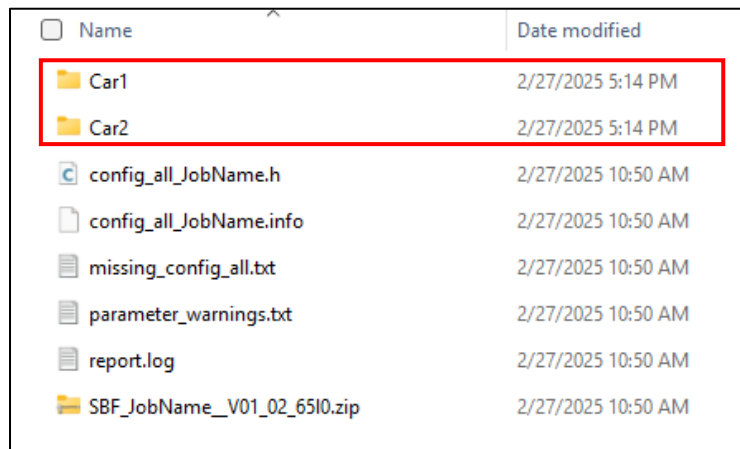
- i. Open **(1) – Controller Software**.



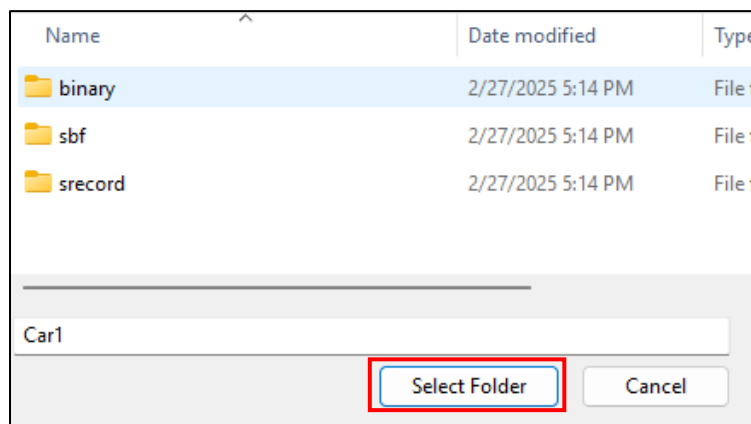
- ii. Select the folder with the **job name**.



- iii. Choose the **Car** to load software for.

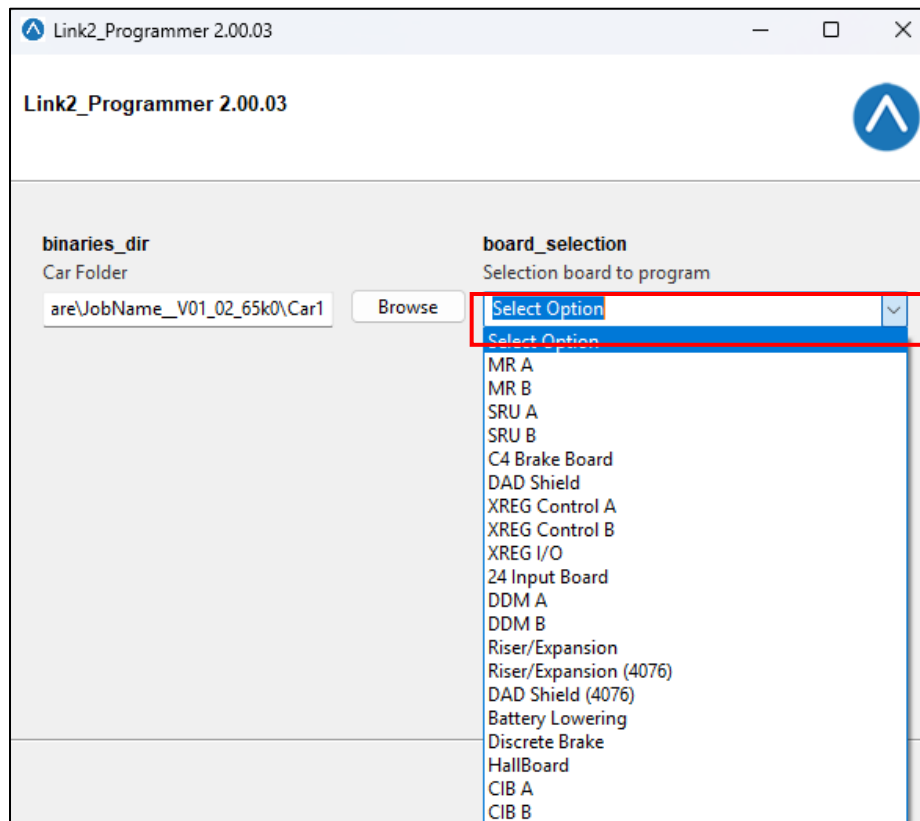


- iv. Click **Select Folder** at the bottom of the window.



4. **Select the processor to update** using the dropdown menu. Processors can be updated in any order:

- **MR A:** MR MCUA
- **MR B:** MR MCUB
- **SRU A:** CT and COP MCUA
- **SRU B:** CT and COP MCUB
- **Riser/Expansion:** Riser/Expansion board



Processor connections can be found on the board.

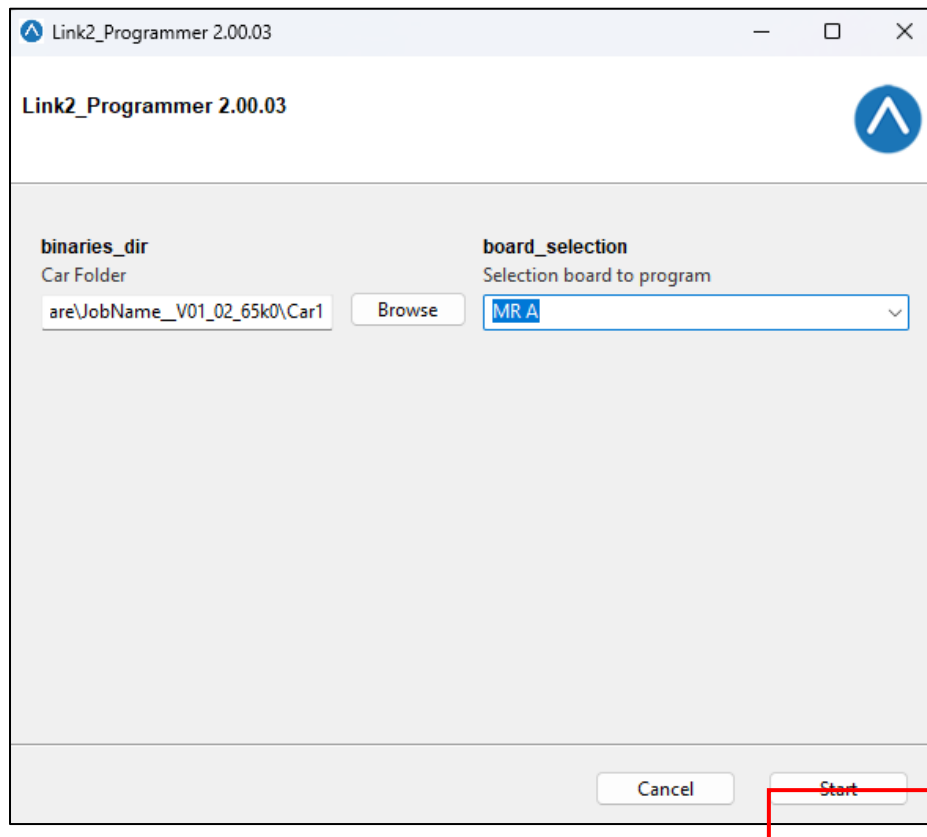


MR SRU Connection

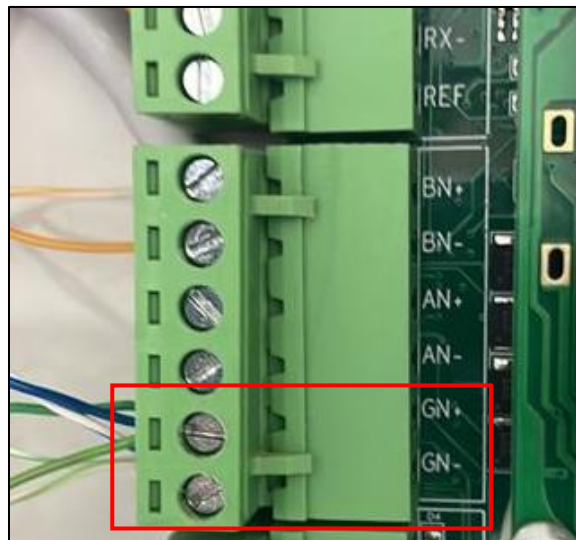


CT/COP Connection

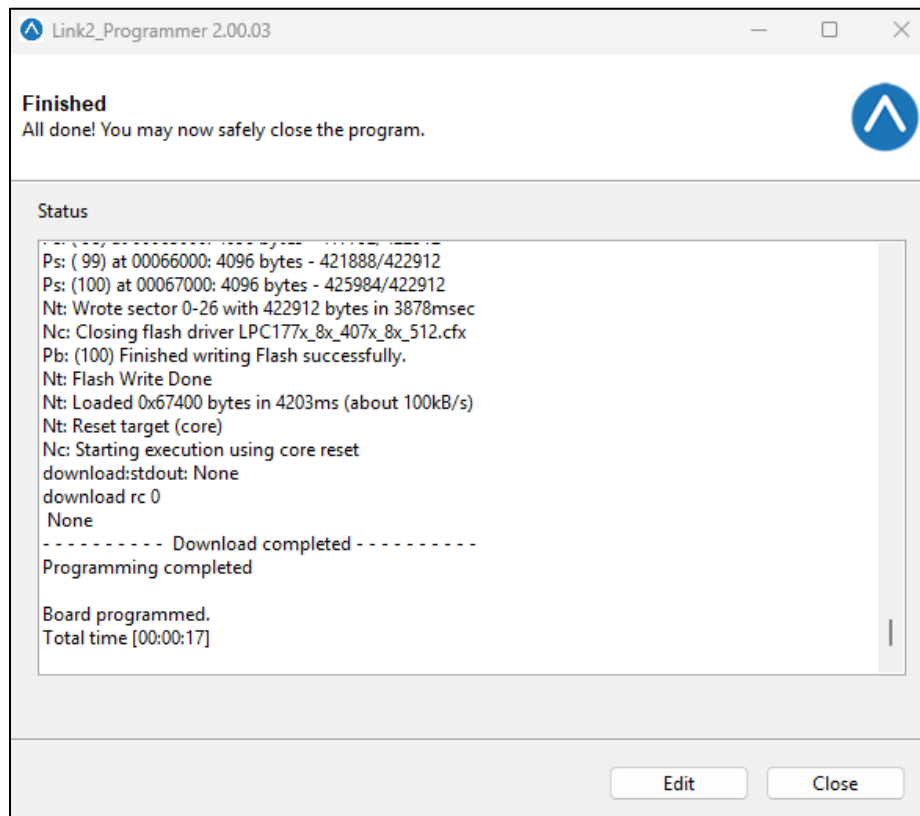
5. **Start the software loading process** by clicking the **Start** button.



Important: When programming the **MR SRU**, other cars in the group may be affected. To prevent this, disconnect the **group terminals** on the board.



6. A new window will appear, and the software download will begin. Once complete, a confirmation message will be displayed.



NOTE: If the software fails to download, try the following:

- i. Retry the process.
- ii. Use a different USB port.
- iii. Power cycle the controller.
- iv. Ensure the Link2 Programmer is properly connected.
- v. Restart the laptop.
- vi. Try a different Link2 Programmer.
- vii. Use a different laptop.
- viii. Contact Smartrise for assistance.

7. Click **Edit** to continue loading software for the remaining processors and follow the previous steps.
8. Once all software uploads are complete, **reconnect the group terminals and power cycle the controller.**
9. **Verify the software version** under **Main Menu | About | Vers.**
10. Scroll down to view all options and confirm the expected version is displayed.

JOB NAME
SRU BOARD
CAR LABEL
JOB ID: #####
VERS. ##.##.##
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11. Default to factory settings by navigating to **Main Menu | Setup | Miscellaneous | Default | Default Factory.**

5 Restoring a Bricked Processor

In the event of a bricked processor, follow the steps below to restore functionality:

1. Locate the two jumpers positioned beneath the LCD display – one jumper corresponds to each processor.
2. Connect the jumper associated with the affected (bricked) processor to establish communication.
3. Power cycle the board.
4. Once power is restored, program the processor using a release file that already includes a bootloader.
5. Start the application once programming is complete.
6. Remove the jumper used for recovery.
7. Power cycle the board again to finalize the restoration.