# New Leader ISO Module Firmware

Installation Instructions

# Installing New Leader ISO Module Firmware

The purpose of these instructions is to assist the technician with installing new firmware on New Leader modules. If this is your first time installing firmware on New Leader modules, review all the instructions. If you have previously installed firmware, you can skip to Part 2, beginning on page 7.

These instructions are grouped by subject:

- Part 1 – Required Tools & Programs
- Part 2- Download Firmware Files
- Part 3- Connecting to Modules
- Part 4- Installing Firmware

NEW LEADER

# Installing New Leader ISO Module Firmware

## Part 1 – Required Tools

- A laptop with the current version of Java installed.
- New Leader ISOBUS Diagnostic to USB kit, PN 315967, ordered directly from New Leader.
- 315967 Kit includes the following:

**315965 Harness**

**315966 SYSTEC CAN to USB Adapter**

**CD - not needed**

**Can Simulator**

**USB Adapter Cable**

**Note:** If you already have access to the SYSTEC CAN to USB adapter, then you will only need to order harness 315965.

NEW LEADER

# Installing New Leader ISO Module Firmware

## Part 1- Required Programs

### Introduction

- The Ag Leader Reprogramming Tool is a Java-based PC application that allows reprogramming of New Leader electronic modules. It is used in conjunction with the SYSTEC-electronic CAN-USB adapter (included in kit 315967).

- **Note:** The Reprogramming Tool *will not* reprogram New Leader modules when an Ag Leader display is present. Module firmware is updated through the Ag Leader display via a USB drive containing current module firmware. Contact your local Ag Leader dealer for more details.

### Installation

The Reprogramming Tool requires the Java Runtime Environment to be installed on your PC. Unless you have specifically removed the Java Runtime Environment from your computer, Java should already be installed on your PC. To verify and/or install the Java Runtime Environment for your PC, go to www.java.com.

NEW LEADER

# Installing New Leader ISO Module Firmware

## Part 1- Required Programs

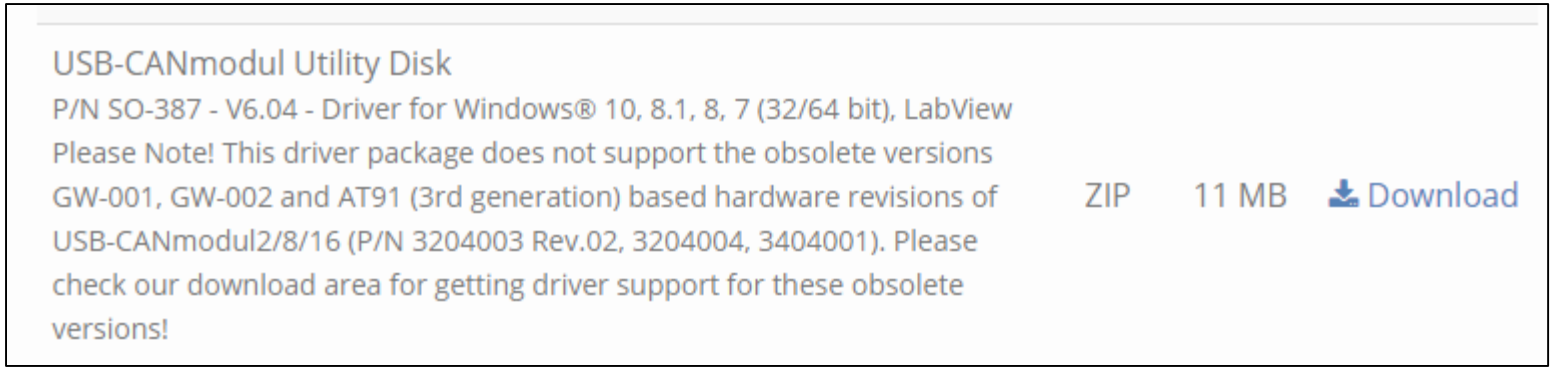
### Installation –Continued

Another component you'll need installed on your PC is the SYSTEC driver. The driver provides an interface to the SYSTEC CAN-USB adapter. The latest driver from SYSTEC-electronic can be downloaded at

https://www.systec-electronic.com/en/company/support/device-driver/

Look for "USB-CANmodule Utility Disc" (shown below) and download.

**Note:** Version V6.04 was the most current version as of Nov. 2018. Periodically visit the above website for the most up to date version.




NEW LEADER

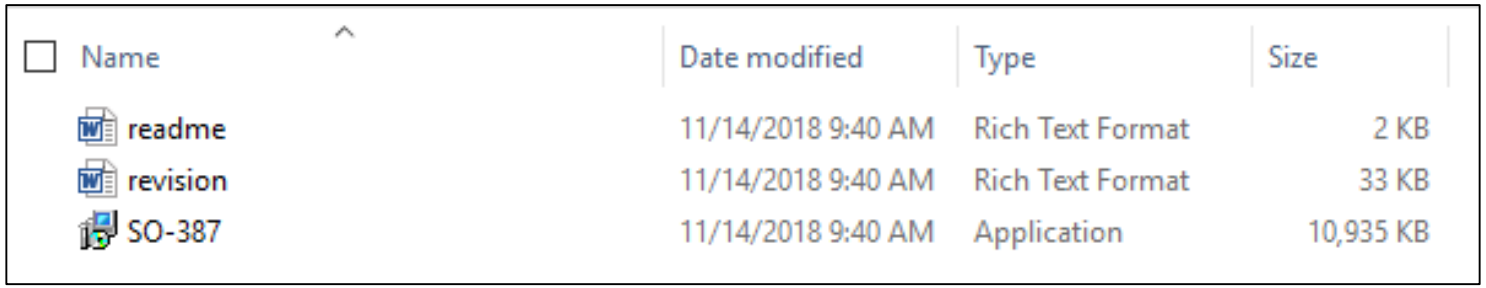
# Installing New Leader ISO Module Firmware

## Part 1- Required Programs

### Installation –Continued

Extract the file.  Follow the instructions labeled “readme”.

Open the file labeled SO-387 and follow the prompts to install.



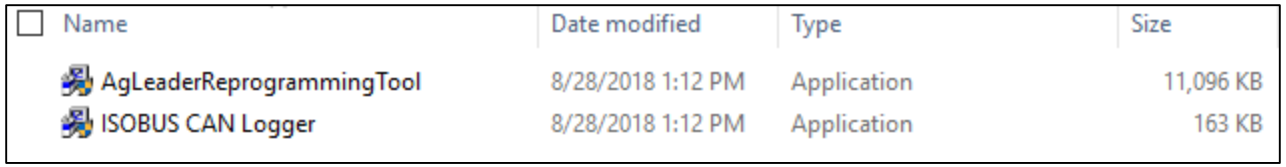
# Updating New Leader ISO Module Firmware

## Part 1- Required Programs

The Reprogramming Tool and current module firmware are available on the New Leader website listed below.

**https://newleader.com/newleader-support/**

1. Download the zip file labeled downloads and extract the file.
2. Open the new folder labeled downloads. You will be using the files labeled AgLeaderReprograjmingTool. The ISOBUS CAN Logger file is not needed for this procedure.




3. Open the AgLeaderReprogrammingTool and follow the prompts to install. When this program is installed it will automatically create a folder on your hard drive labeled AgLeader Firmware Files. You will need to know the location of this folder in the next step.

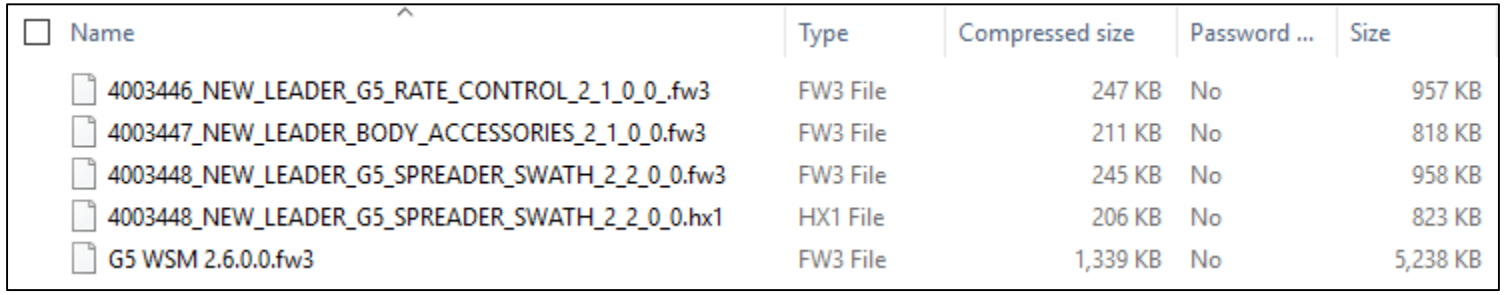
# Updating New Leader ISO Module Firmware

## Part 2- Download Firmware Files

The current module firmware is available on the New Leader website listed below:

**https://newleader.com/newleader-support/**

1. Download the zip file labeled Current firmware.  Extract the file.
2. Open the extracted folder labeled Current firmware. Copy all these files and paste into the AgLeader Firmware Files folder located on your hard drive.



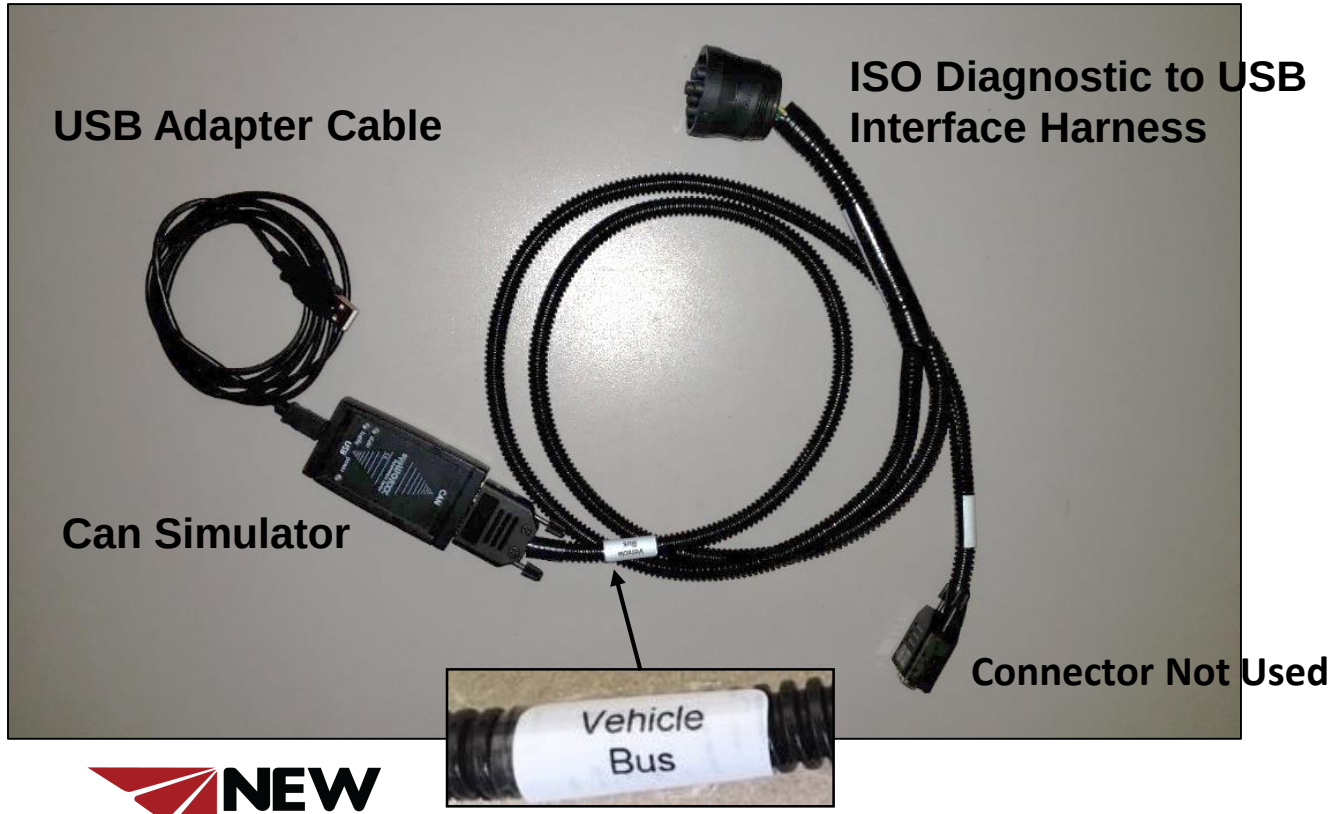
| Name | Type | Compressed size | Password ... | Size |
|---|---|---|---|---|
| 4003446_NEW_LEADER_G5_RATE_CONTROL_2_1_0_0_.fw3 | FW3 File | 247 KB | No | 957 KB |
| 4003447_NEW_LEADER_BODY_ACCESSORIES_2_1_0_0.fw3 | FW3 File | 211 KB | No | 818 KB |
| 4003448_NEW_LEADER_G5_SPREADER_SWATH_2_2_0_0.fw3 | FW3 File | 245 KB | No | 958 KB |
| 4003448_NEW_LEADER_G5_SPREADER_SWATH_2_2_0_0.hx1 | HX1 File | 206 KB | No | 823 KB |
| G5 WSM 2.6.0.0.fw3 | FW3 File | 1,339 KB | No | 5,238 KB |

# Updating New Leader ISO Module Firmware

## Part 3- Connecting to Modules

New Leader USB to Can Simulator Adapter, PN 315966, connections

Connect the USB adapter cable to the CAN simulator, then the CAN simulator to the **Vehicle Bus** connector on the ISO Diagnostic to USB Interface Harness.




NEW LEADER

# Updating New Leader ISO Module Firmware

## Part 3- Connecting to Modules

Remove the enclosure cover to gain access to the diagnostic port.

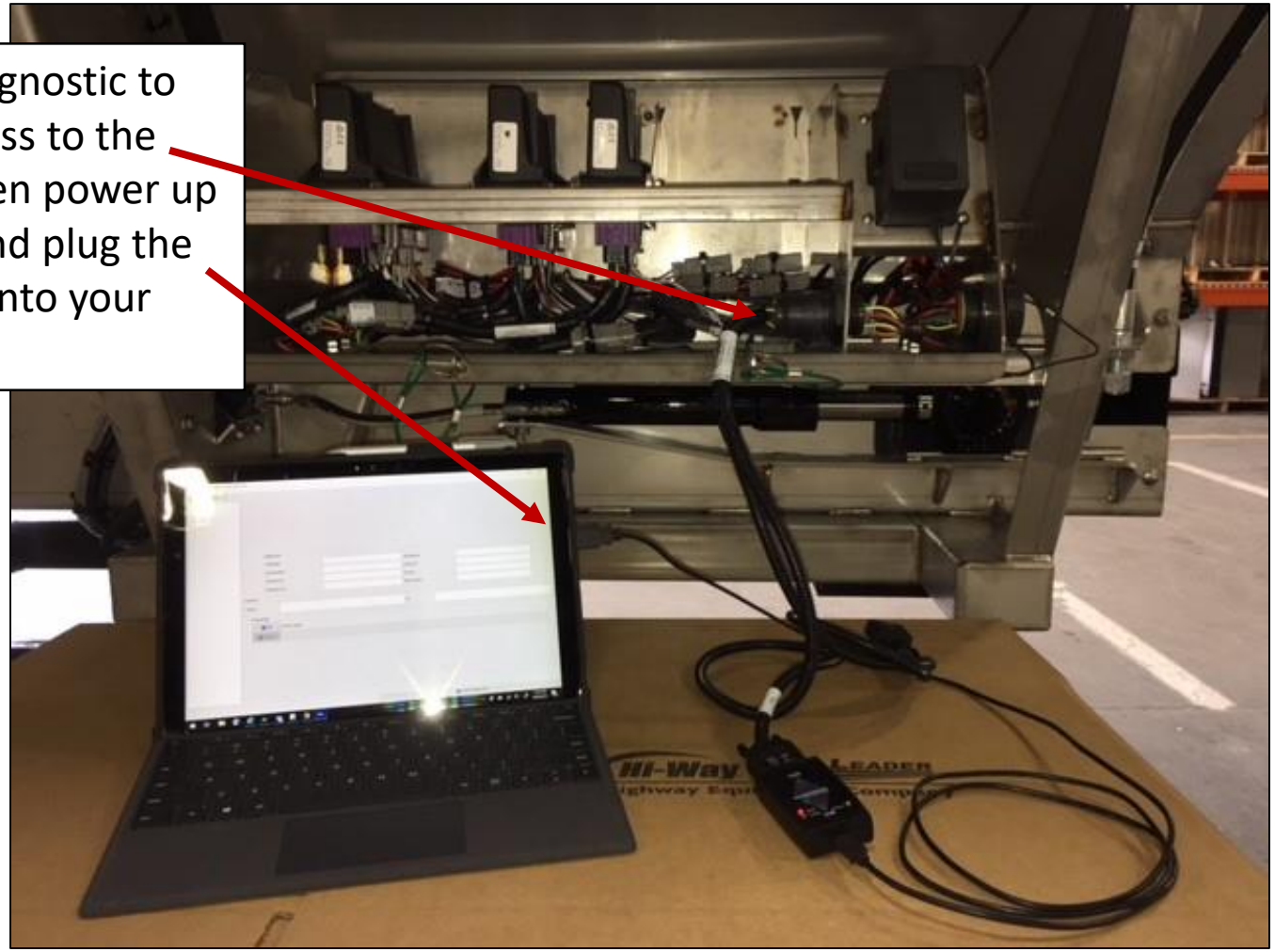
# Updating New Leader ISO Module Firmware

## Part 3- Connecting to Modules

# Updating New Leader ISO Module Firmware

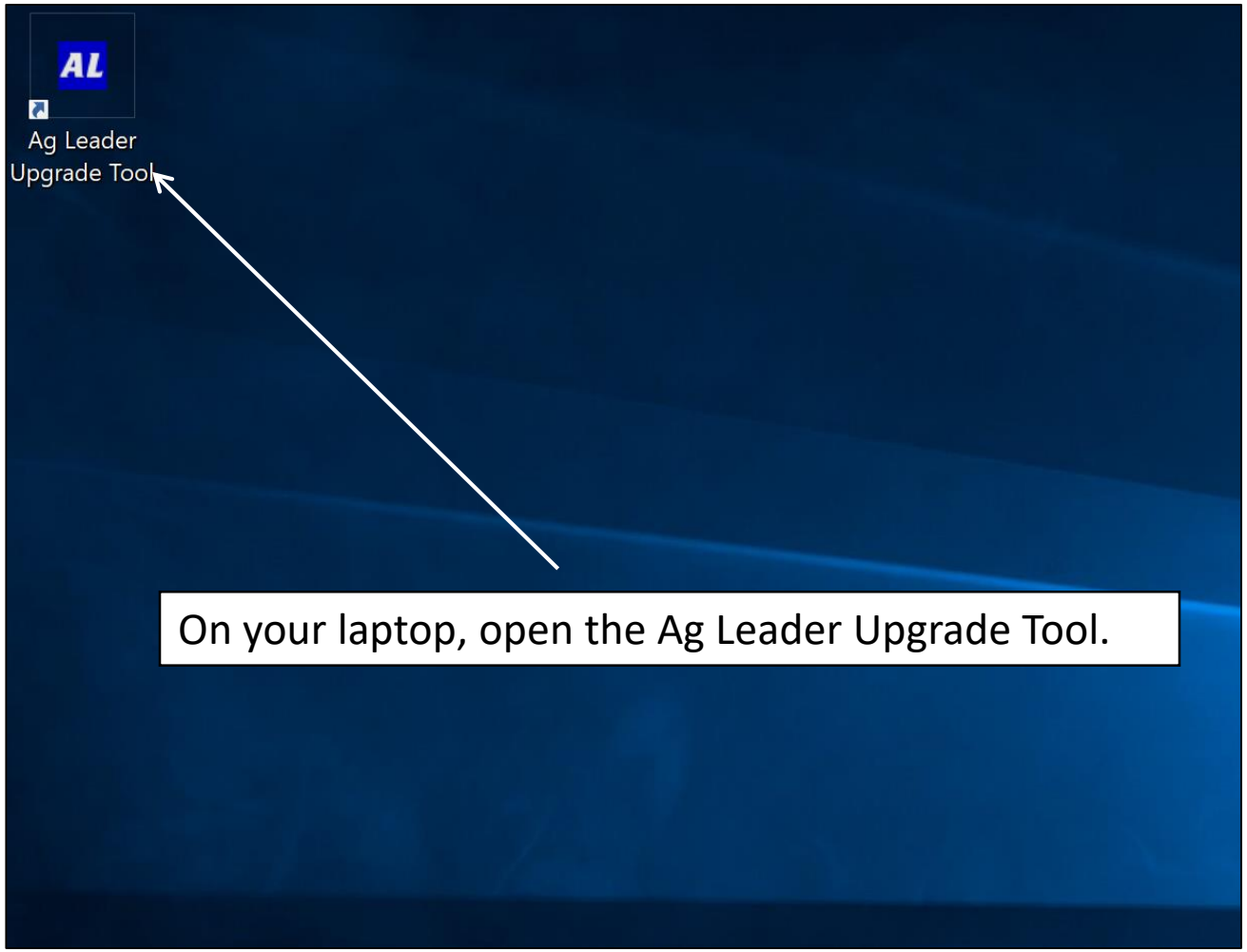
## Part 3- Connecting to Modules

Connect the ISO Diagnostic to USB Interface Harness to the Diagnostic Port. Then power up the in-cab display and plug the USB Adapter Cable into your laptop.



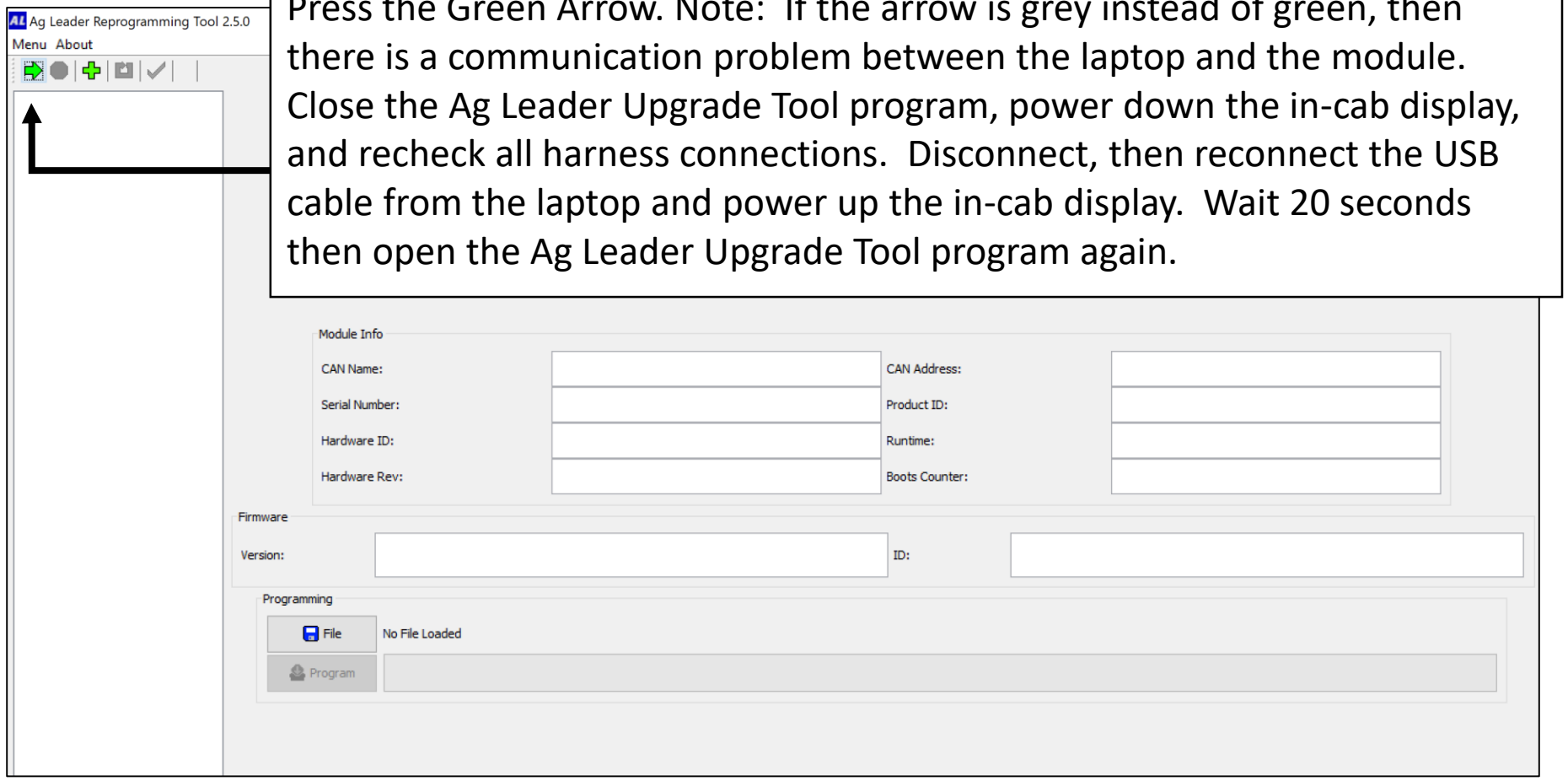
# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware



# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware

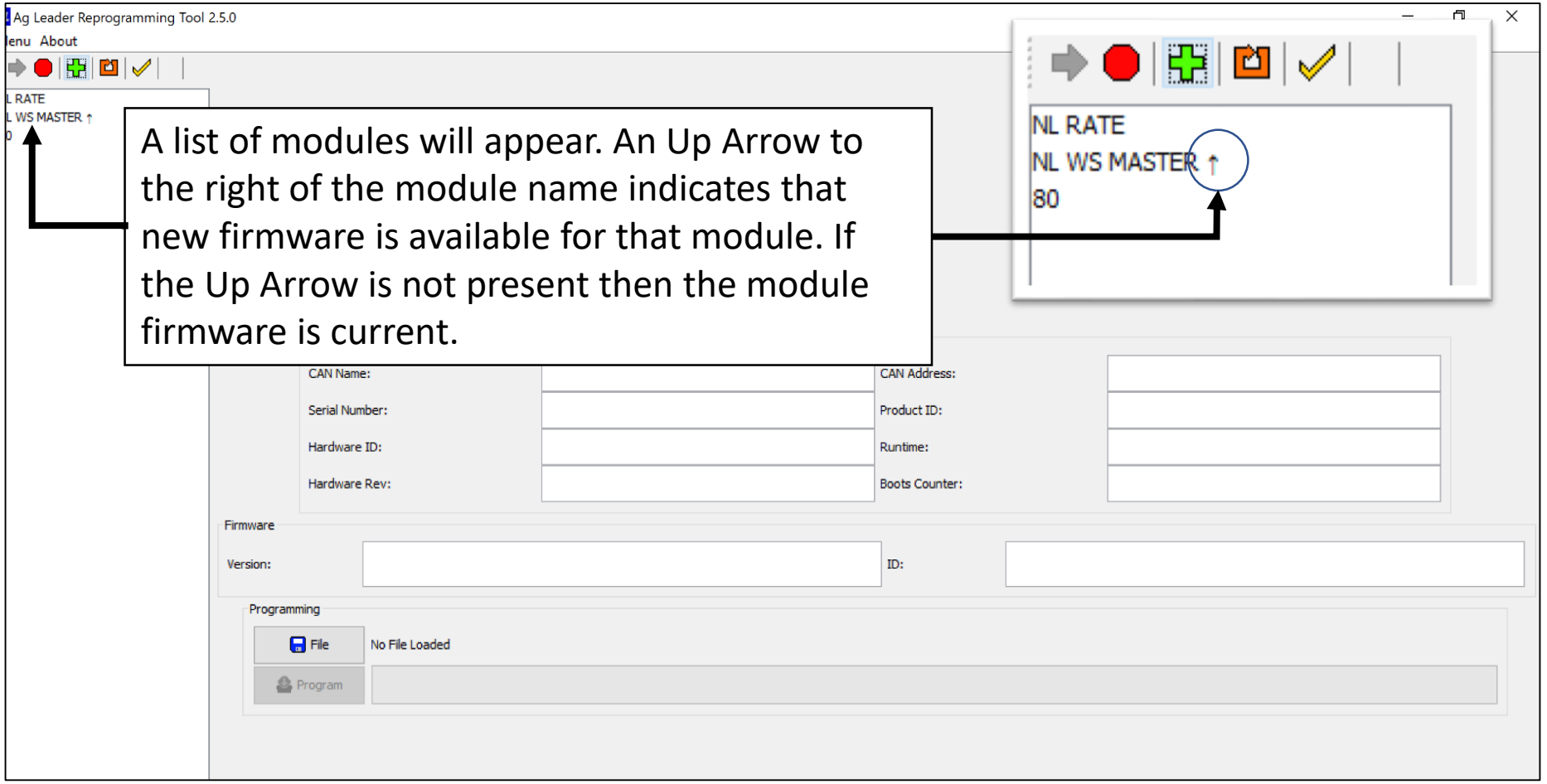



Press the Green Arrow. Note: If the arrow is grey instead of green, then there is a communication problem between the laptop and the module. Close the Ag Leader Upgrade Tool program, power down the in-cab display, and recheck all harness connections. Disconnect, then reconnect the USB cable from the laptop and power up the in-cab display. Wait 20 seconds then open the Ag Leader Upgrade Tool program again.

NEW LEADER

# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware

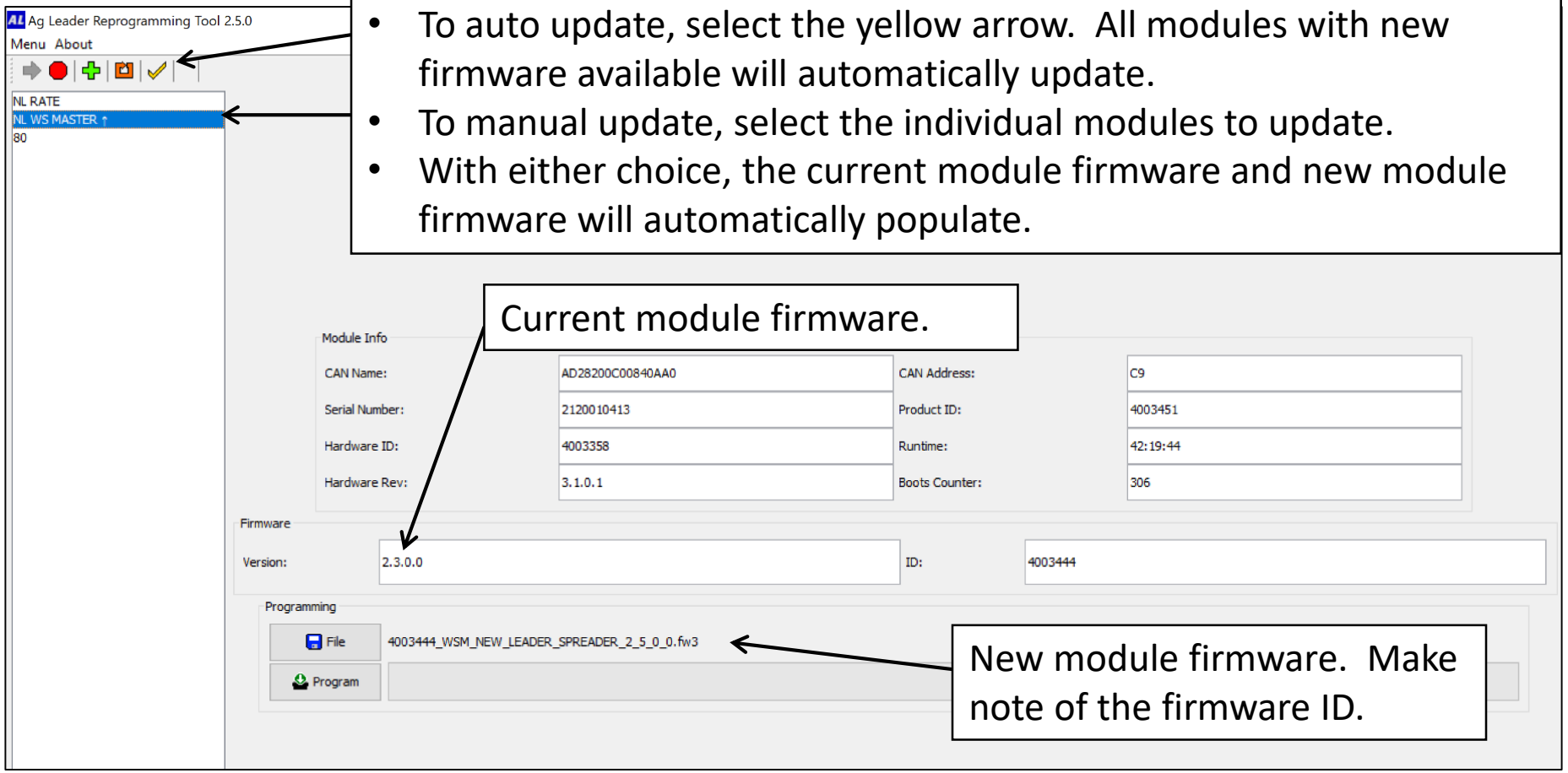


# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware

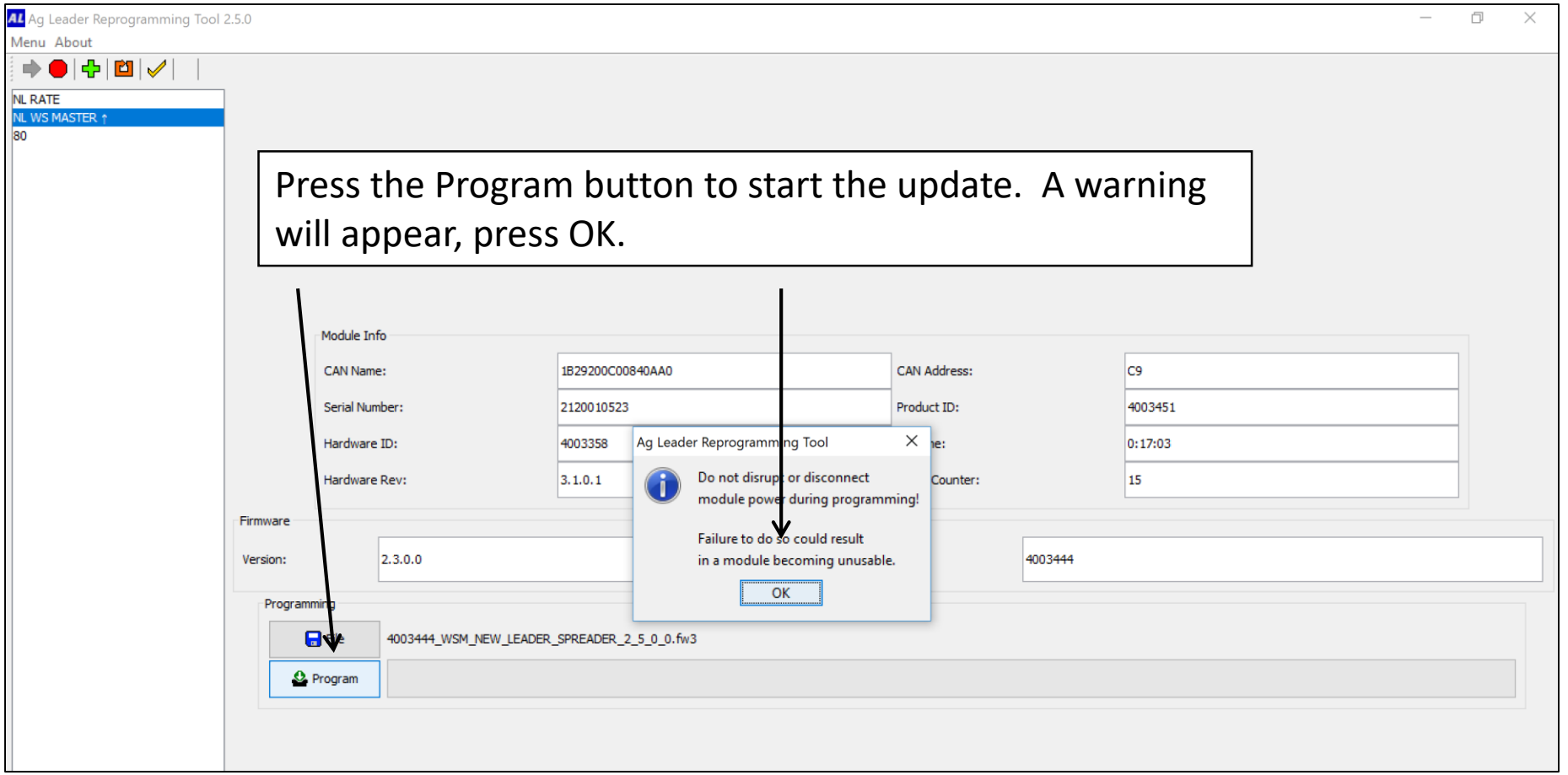
You now have two options: auto update or manual update.

- To auto update, select the yellow arrow. All modules with new firmware available will automatically update.
- To manual update, select the individual modules to update.
- With either choice, the current module firmware and new module firmware will automatically populate.



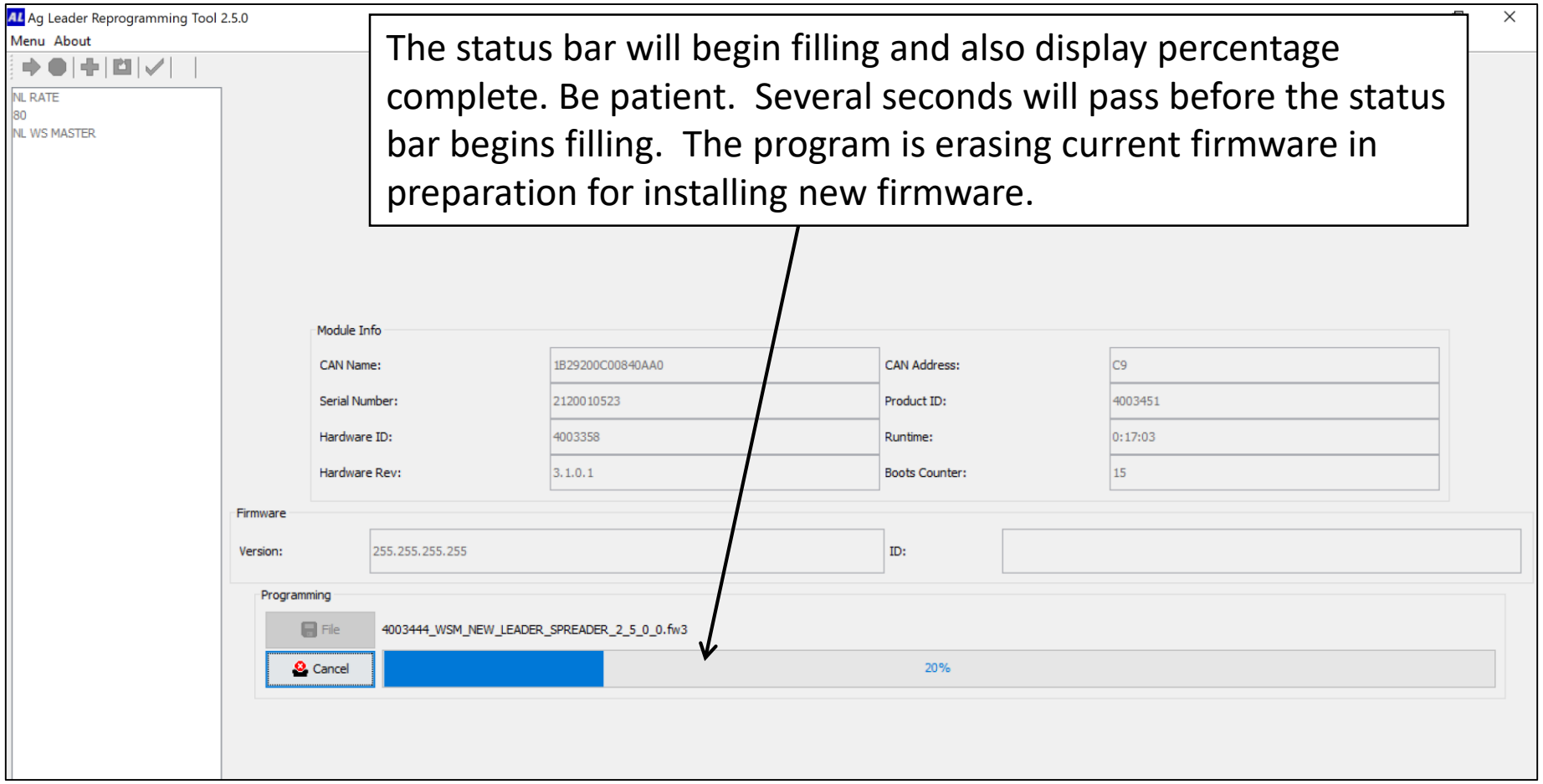
# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware



# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware



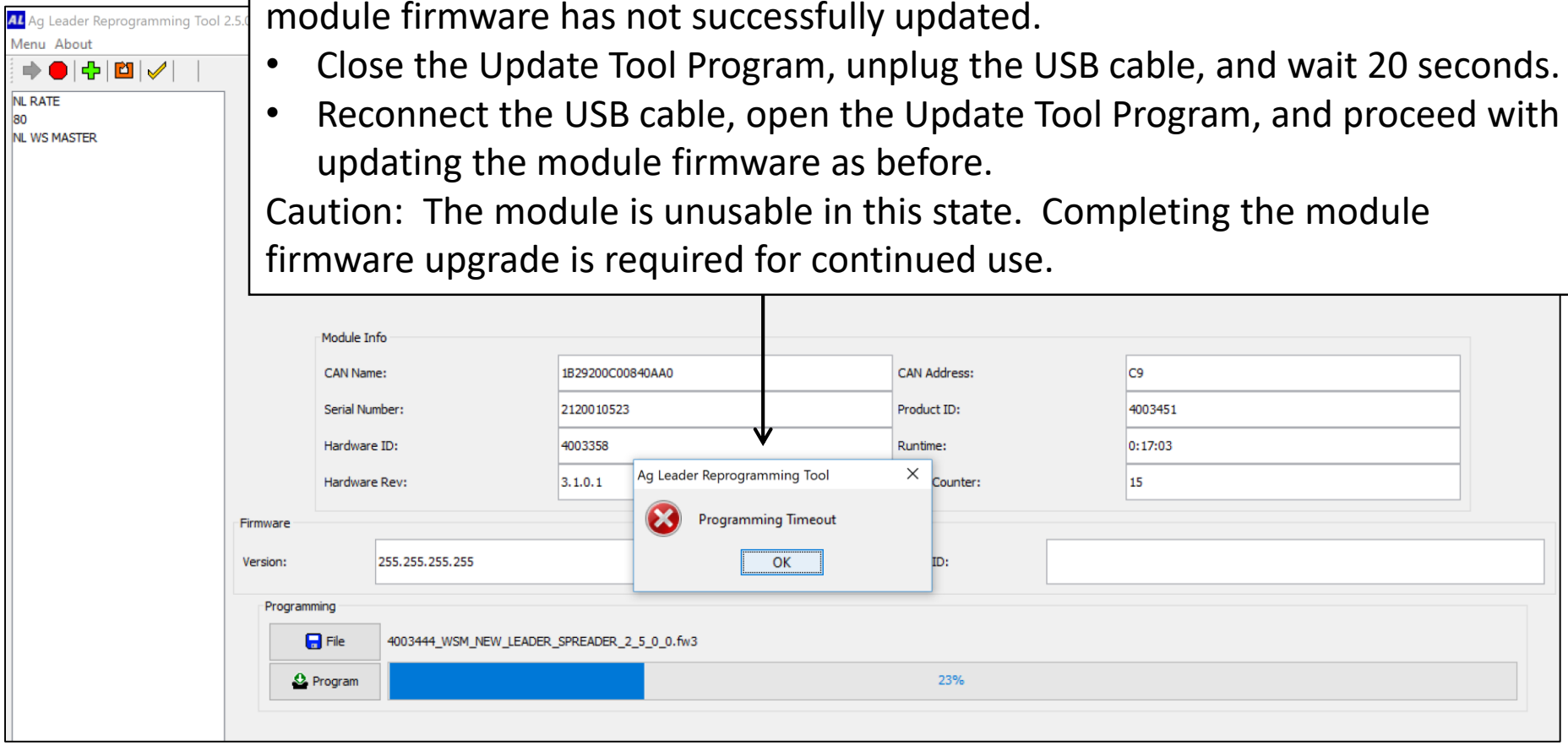
# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware

You may receive a message of “Programming Timeout”. This indicates the module firmware has not successfully updated.

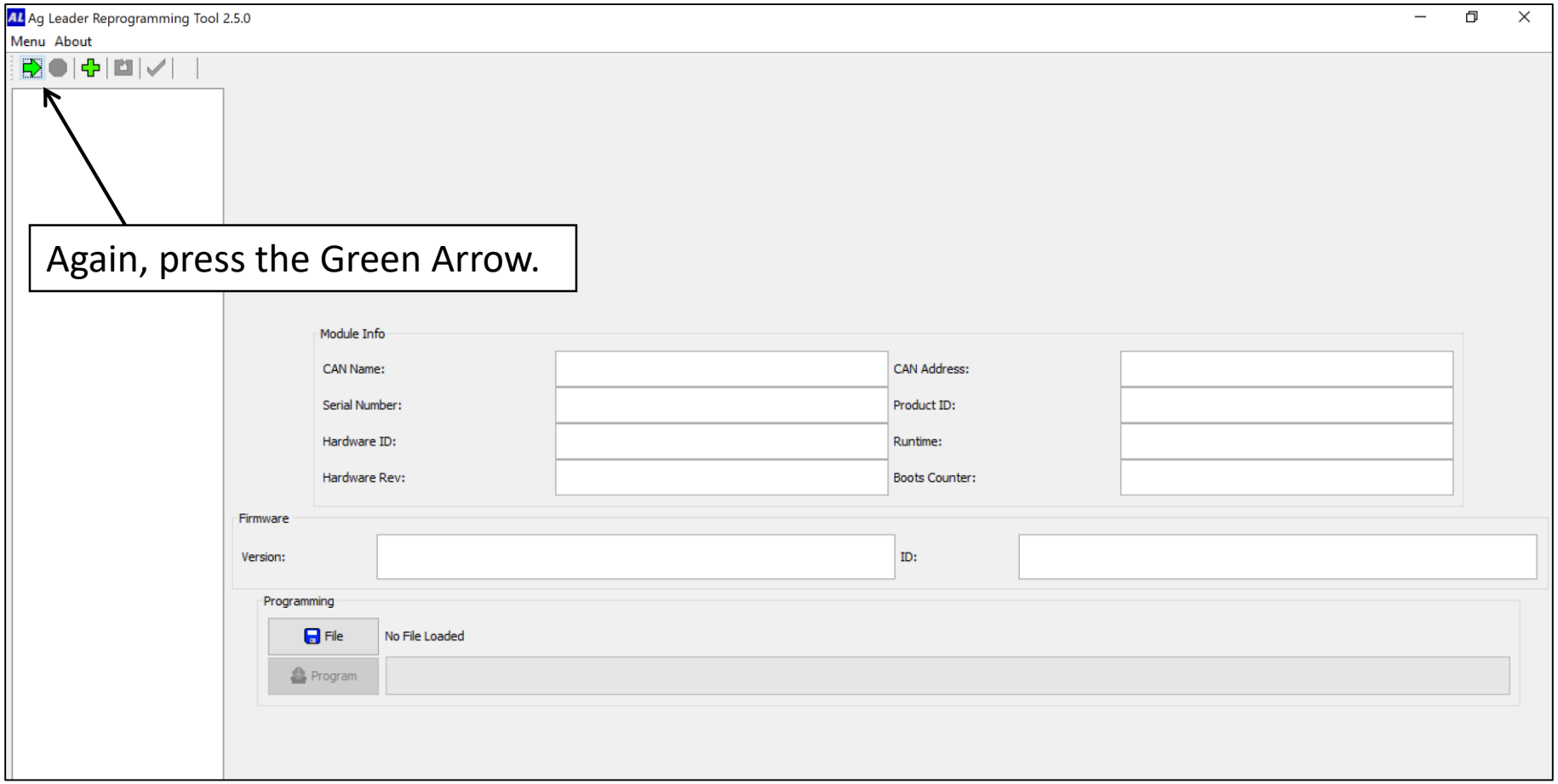
- Close the Update Tool Program, unplug the USB cable, and wait 20 seconds.
- Reconnect the USB cable, open the Update Tool Program, and proceed with updating the module firmware as before.

Caution: The module is unusable in this state. Completing the module firmware upgrade is required for continued use.



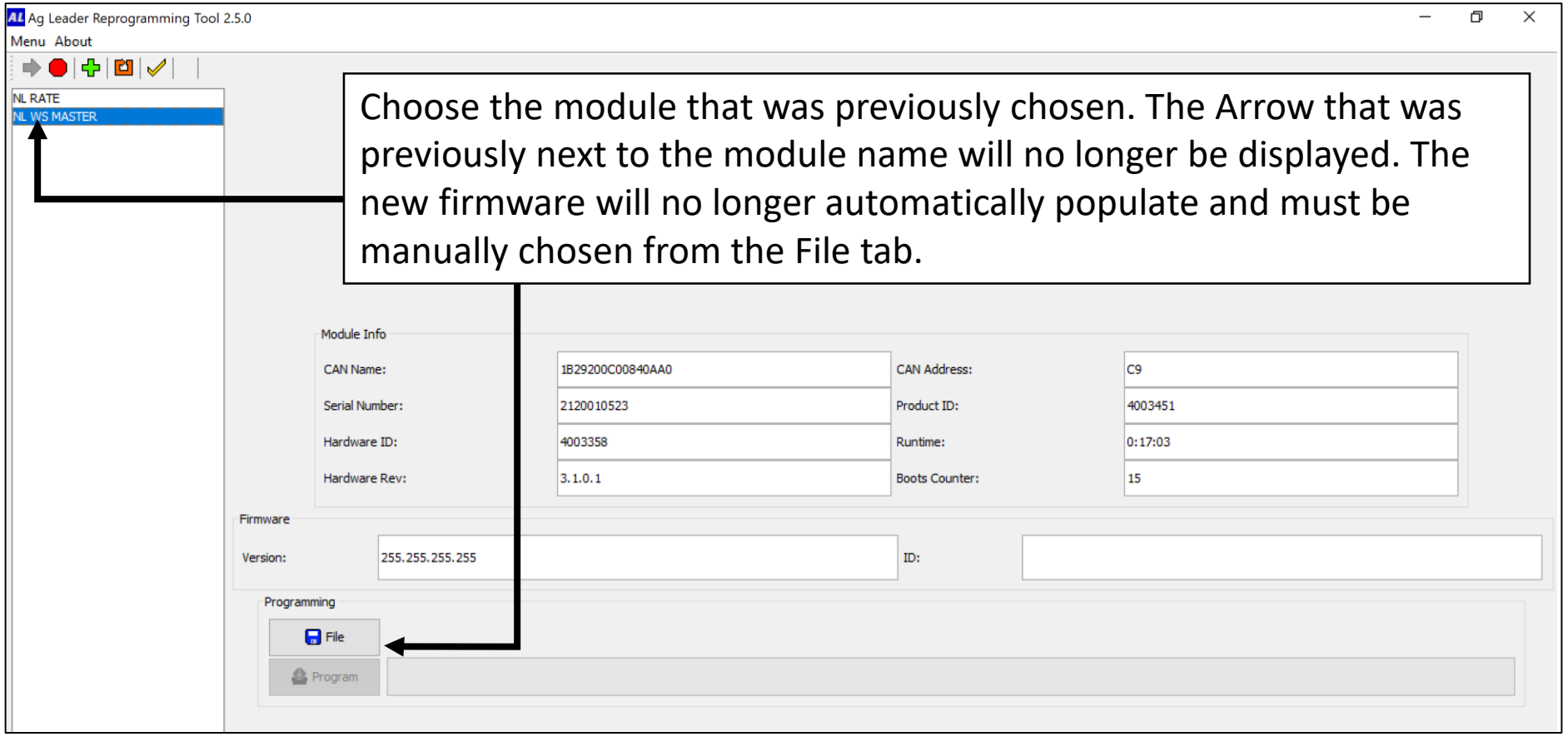
# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware



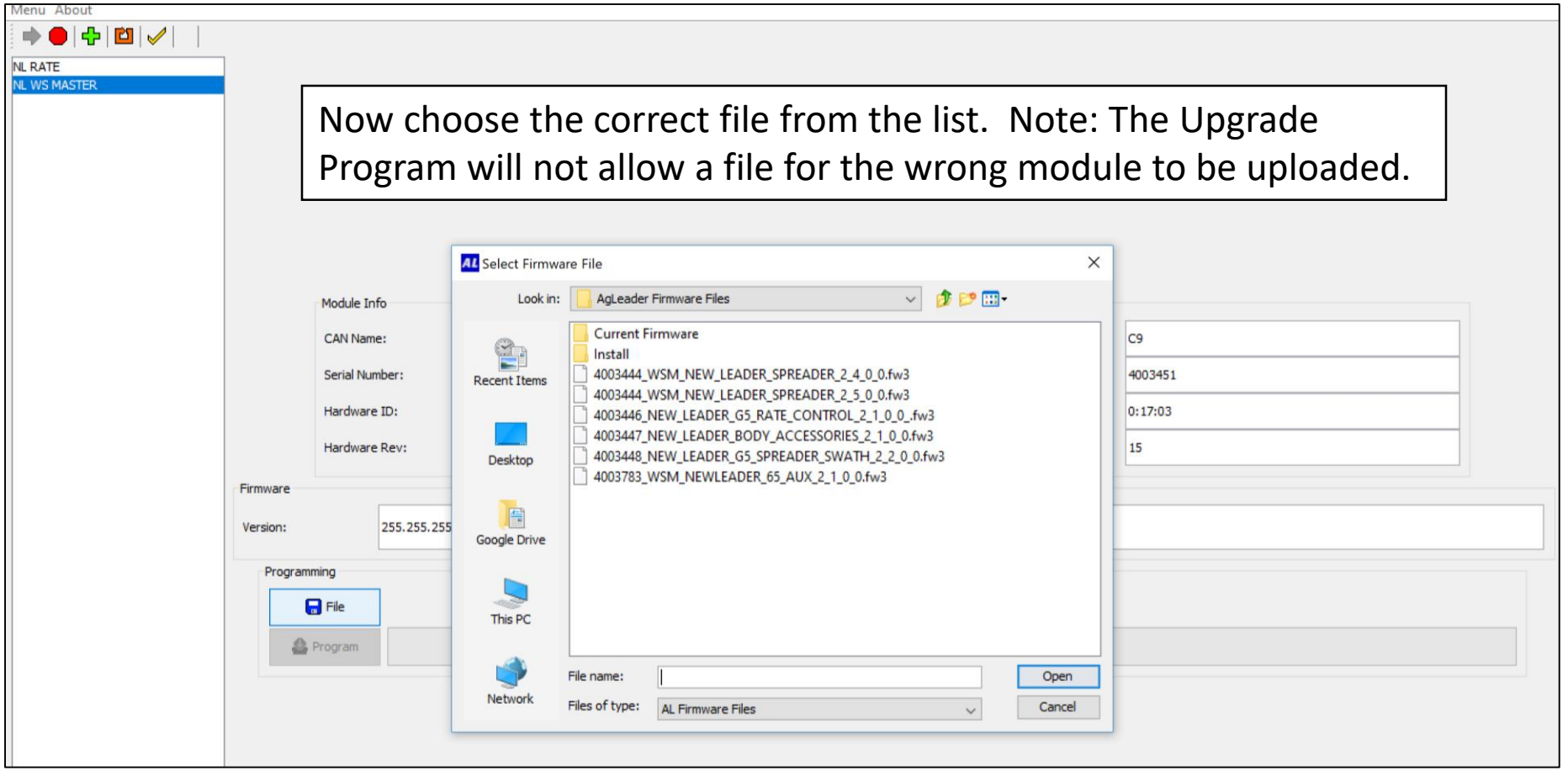
# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware



# Updating New Leader ISO Module Firmware

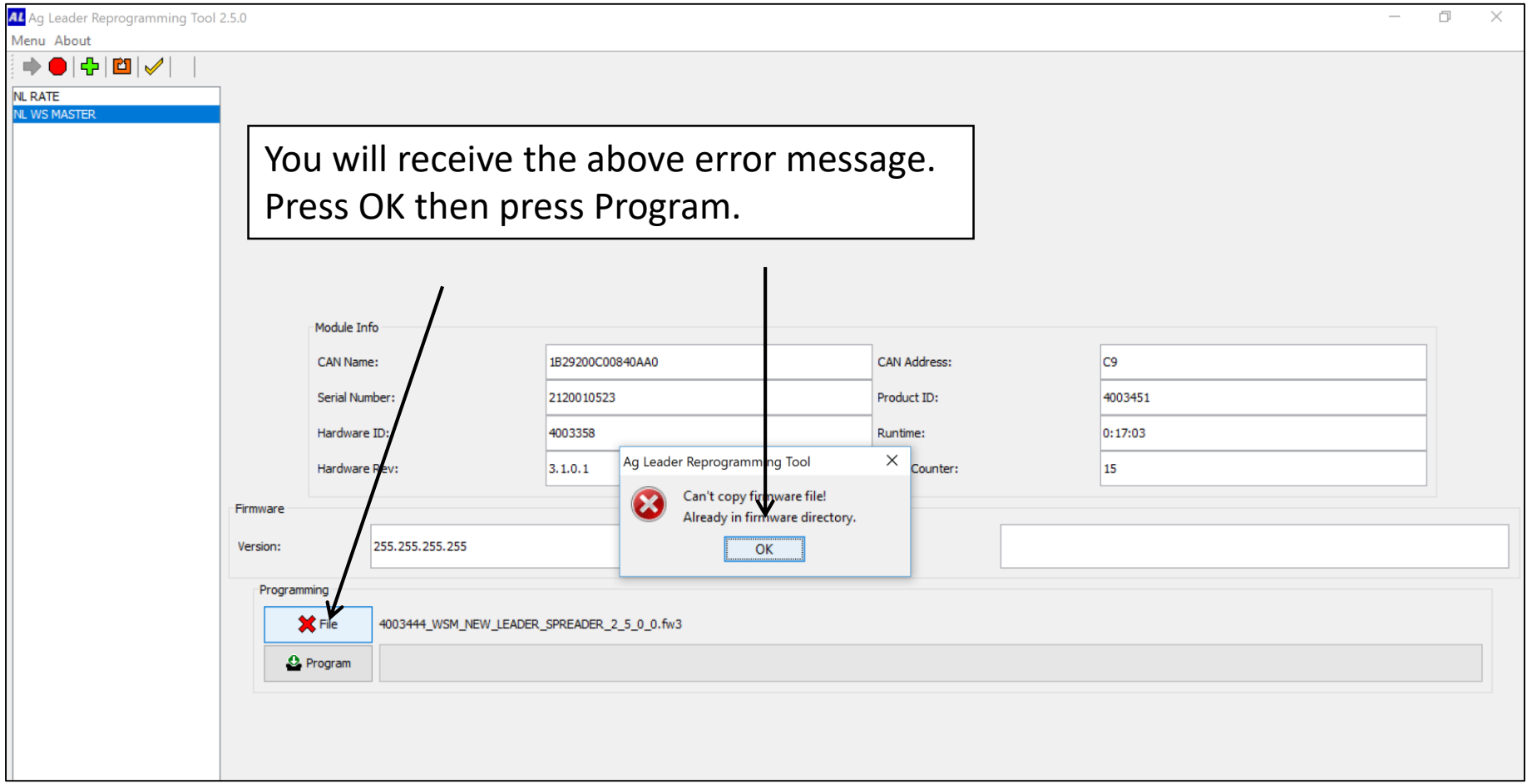
## Part 4- Installing Firmware




NEW LEADER

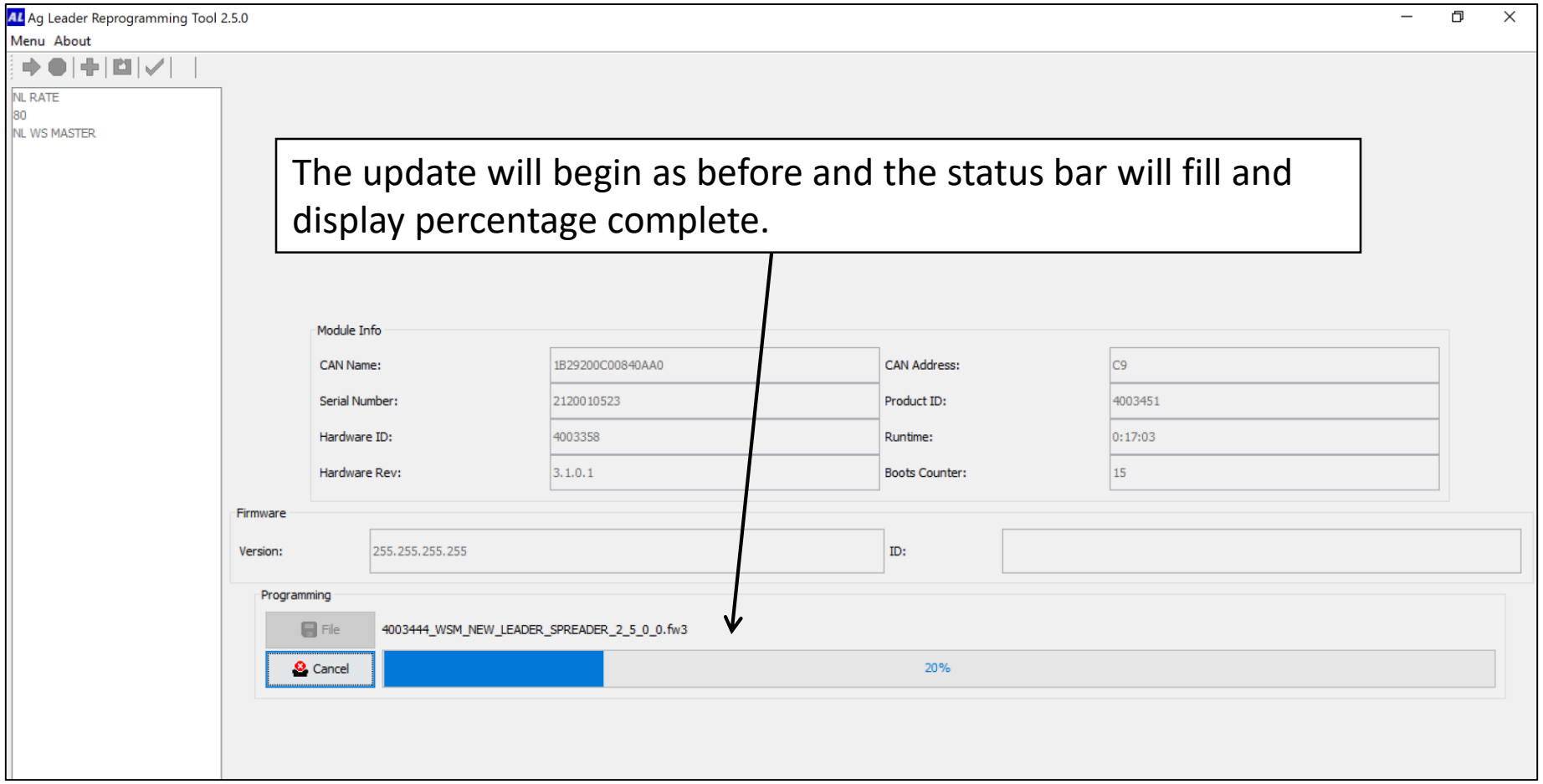
# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware



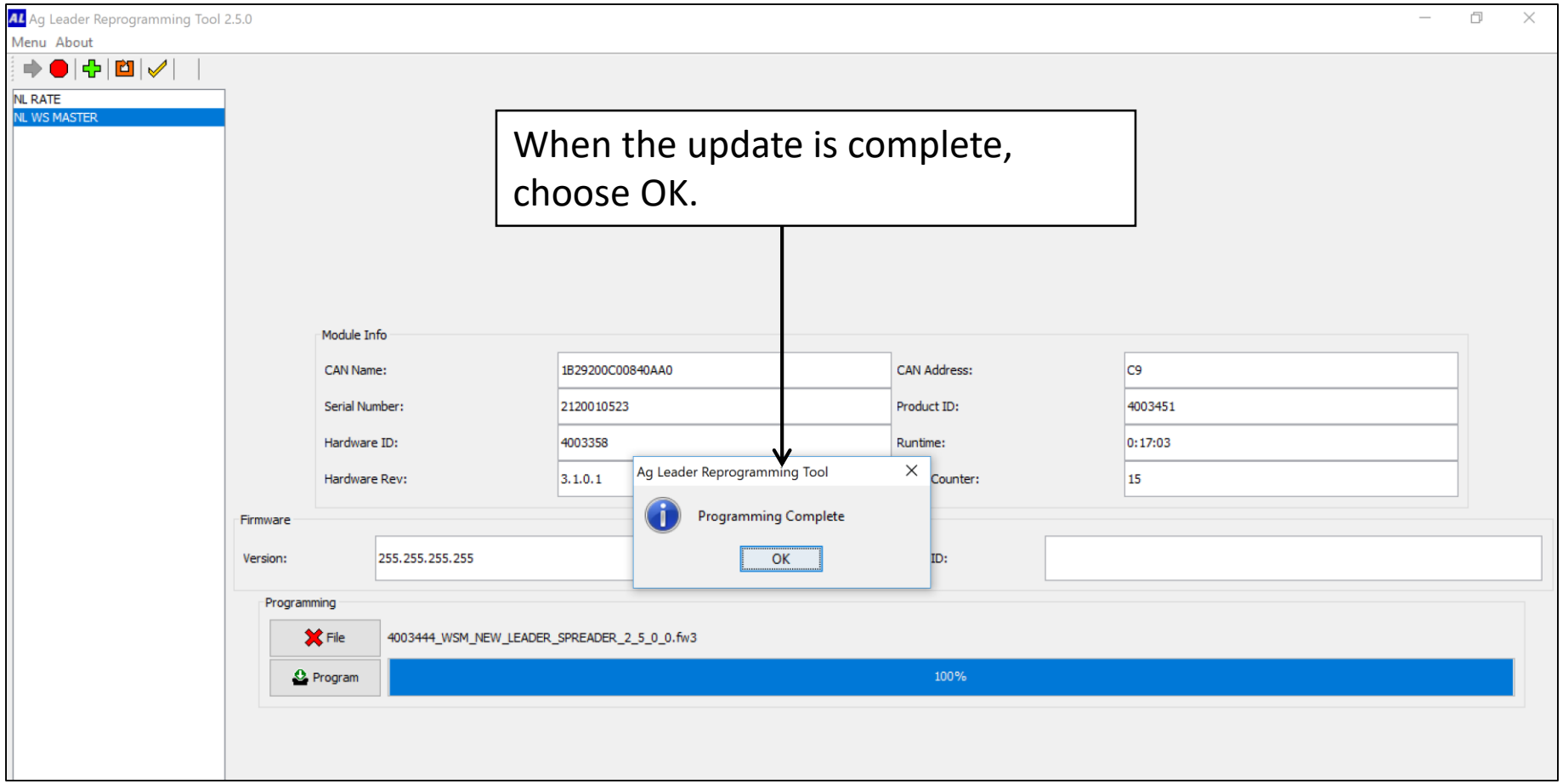
# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware



# Updating New Leader ISO Module Firmware

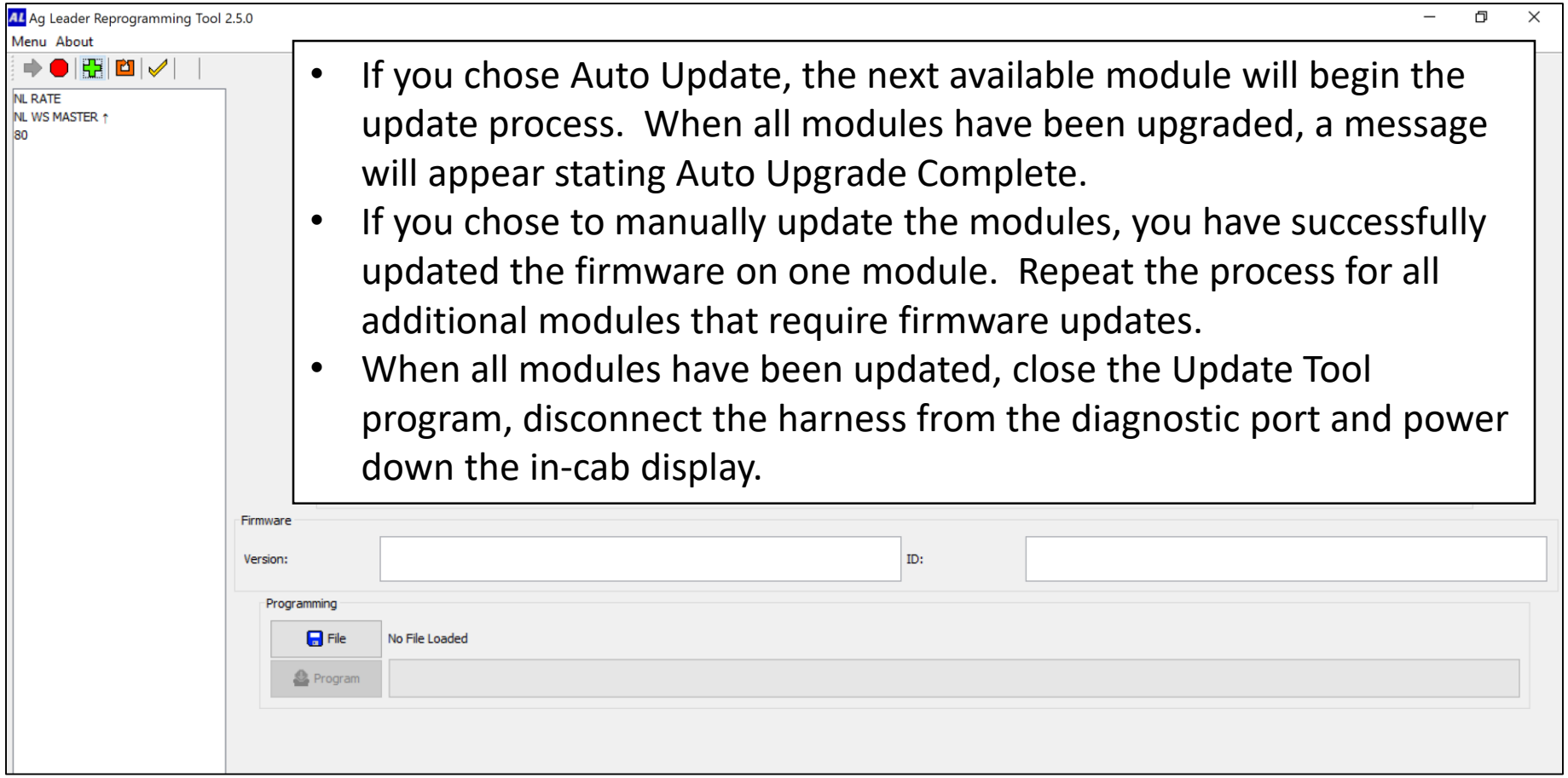
## Part 4- Installing Firmware




NEW LEADER

# Updating New Leader ISO Module Firmware

## Part 4- Installing Firmware




- If you chose Auto Update, the next available module will begin the update process. When all modules have been upgraded, a message will appear stating Auto Upgrade Complete.
- If you chose to manually update the modules, you have successfully updated the firmware on one module. Repeat the process for all additional modules that require firmware updates.
- When all modules have been updated, close the Update Tool program, disconnect the harness from the diagnostic port and power down the in-cab display.

NEW LEADER