



# Release Information

## 3Bx

Version 2.01

**Part number:** 90-056-251– NOP SOFTWARE, 3B, VER 2.01, ENGLISH  
**Where use Part#:** 20-063-290 – NOP PCB, PROCESSOR 3B, VER 2  
**Release Date:** Jan - 2021

Date:	Update:	Author:
2019-11-8	Document created	Travis Debus
Jan 2020	Software released 2.0	Michael Martinet
Jan 2022	Software Update 2.01	Michael Martinet



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## 1 Version Information

### 1.1 3Bx

The following main components are included in the software:

Component	Functionality
Blocking	<ul style="list-style-type: none"> <li>- Entering a job number and blocking a lens</li> <li>- Blocking a Single vision, progressive and segmented lenses</li> <li>- Blocking executive segmented lenses</li> <li>- Blocking round or curve top segmented lenses</li> <li>- Editing decentration</li> </ul>
Communication	<ul style="list-style-type: none"> <li>- DCS protocol compatible</li> <li>- Interface: RS232</li> </ul>
Algorithm	<ul style="list-style-type: none"> <li>- Geometry enter calculation</li> <li>- Optical center calculation</li> </ul>
Calibration	<ul style="list-style-type: none"> <li>- Automated calibration</li> </ul>
Diagnostic screen	<ul style="list-style-type: none"> <li>- Communication check</li> <li>- Data entry device (barcode scanner)</li> <li>- Display device check</li> <li>- I/O check</li> <li>- Number of jobs stored</li> </ul>
Language	<ul style="list-style-type: none"> <li>- English</li> </ul>

## 2 System requirements

### 2.1 Minimum hardware requirements

- 3Bx Mother board part NOP 33390, SAP 20-063-290

### 2.2 Operating system

N/A

## 3 Fixed errors and new features

### 3.1 3Bx

- Fixed Com1 communication with Host / 4T using Trace Format 4
- Fixed Com2 communication with 7Ex edger



## 4 Known restrictions

### 4.1 Languages

The software is available in English only.

### 4.2 Updates

To perform a software update on an already programmed board:

- Remove the SD card from the unit
- Copy the new image.hex and image.hex.md5 files onto the SD card
- Insert the SD Card back in the unit
- Navigate to Menu>>Setup>>Adv. Setup>>Software, and press ENTER
- Enter the password if prompted: 082379, and press ENTER
- The machine will install the new software and reboot.

### 4.3 New Board

This is software for the new board. Neither this software nor board is backwards compatible with the previous software versions/boards.

## 5 Installation notes

### 5.1 Requirements

- File 3b-cpu.production.hex
- ICD-3 and Tag Connect programmer

### 5.2 New installation

Program the chip using an ICD-3 and Tag Connect in circuit programmer.

### 5.3 Updates

Follow the instruction as for “New installation”.

Warning: Stored job can be lost.


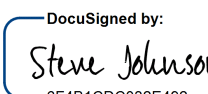
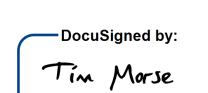
## 6 Files locations

Binary files	<a href="#">Release Disk Images\3B – 90-056-251</a>
Online binary download	<a href="https://www.nationaloptronics.net/product/3B">https://www.nationaloptronics.net/product/3B</a>
Product manuals	<a href="#">Manuals - 3Bx</a>
Online help and documentation	<a href="https://www.nationaloptronics.net/product/3B">https://www.nationaloptronics.net/product/3B</a>
Software Release Information (this document)	<a href="#">Release Disk Images\3B – 90-056-251</a>



## 7 Approvals and signoff

Signatures represent the approval to release/deploy the software.

Software Engineering Manager Signature	Date
M. Martinet  <small>DocuSigned by: FE35E62BCBD04EE...</small>	1/19/2022
Director of Research and Development Signature	Date
M. Kreis  <small>DocuSigned by: 068E223EC7A5451...</small>	1/19/2022
Director of Support & Service Signature	Date
S. Johnson  <small>DocuSigned by: 6F4B1CDC032E492...</small>	1/19/2022
Manufacturing Manager Signature	Date
R. Chen  <small>DocuSigned by: 4463D6DE1A5C48E...</small>	1/20/2022
Product Manager Signature	Date
T. Morse  <small>DocuSigned by: 1044A492524B489...</small>	1/19/2022