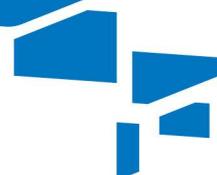




KONICA MINOLTA

How to Guide

Plockmatic SD-350 / 500 Software Update procedure



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GP 19 Update Software

1. Purpose

The purpose of this procedure is to provide the instructions needed to install software to the Booklet Maker and all its options.

Note: Before starting the software installation, check the attached document that came with the software for special instructions.

2. Initial Actions

Note: Ensure that all changes implemented are saved in the Tools Tab / "Stored Jobs", also are record into the document. When NVM Reset is performed, the settings will revert to the default settings established by the manufacturer.

3. Procedure

CAUTION!

ESD Hazard! ESD (Electrostatic Discharge) can cause hardware crashes, data and/or communications problems. Failure to use proper ESD procedures will cause damage to electronic components (example: PCBs). ESD problems can be minimized by maintaining all machine ground connections, ensuring the proper handling of circuit boards and sensors. Use ESD protection when working near PCBs. Failure to use ESD protection is likely to result in a PCB failure.

3.1 localize the software file/s that you need to load on your PC depending on available machine configuration:

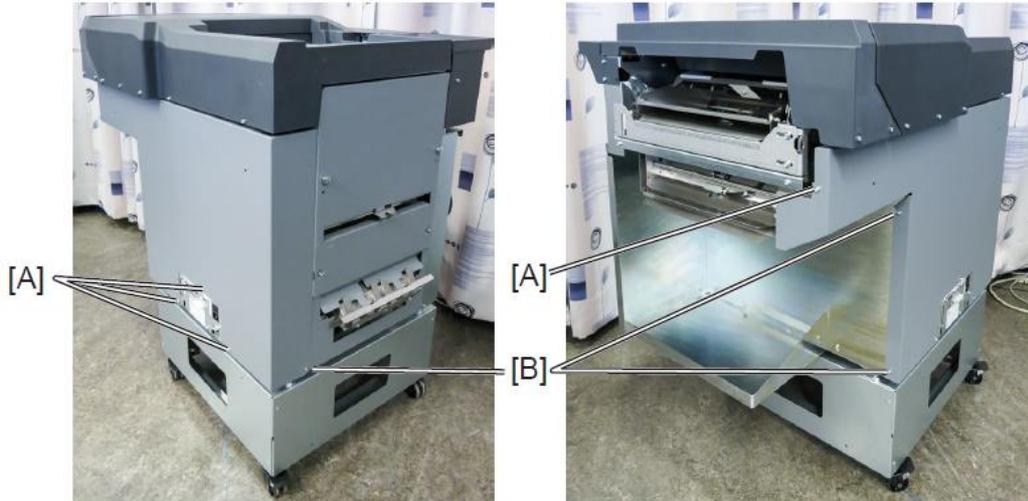
Please note example below:

 km_ui-1.00.rman	25.04.2016 15:05	RMAN-Datei	26.120 KB
 SD-500_300_RCT_M21H_v1.01_Win01	25.04.2016 15:05	Anwendung	560 KB
 SD-500_350_BM_CPU_v1.00_Win02	25.04.2016 15:05	Anwendung	800 KB
 SD-500_350_BM_MD6DC_lower_v1.15_Wi...	25.04.2016 15:05	Anwendung	556 KB
 SD-500_350_BM_MD6DC_middle_v1.15_...	25.04.2016 15:05	Anwendung	556 KB
 SD-500_350_BM_MD6DC_upper_v1.15_Wi...	25.04.2016 15:05	Anwendung	580 KB
 SD-500_350_RCT_CPU_v1.00_Win02	25.04.2016 15:05	Anwendung	628 KB
 SD-500_350_RCT_MD1SM_v1.03_Win05	25.04.2016 15:05	Anwendung	548 KB
 SD-500_350_RCT_MD3DC_v1.14_Win05	25.04.2016 15:05	Anwendung	536 KB
 SD-500_350_SQF_MD6DC_v1.11_Win05	25.04.2016 15:05	Anwendung	696 KB
 SD-500_350_TR_MD6DC_v1.11_Win05	25.04.2016 15:05	Anwendung	704 KB

Note:

The latest software version for SD-350 / 500 Booklet Maker and its option should be available within **CSES-ID:** TNEU1600156EN.

3.2 Use the provided tools located inside the back cover of the Booklet maker:



To access the supplied tools, remove four screws [A], loosen three screws [B] and remove rear cover.



*Location of tools
supplied. Actual look
may differ.*

SW Loading cable RS232 4+2P for loading

MD6DC PCB's on Booklet maker
MD3DC PCB on RCT
MD1SM PCB's on RCT

SW Download cable DB9M to DB9F

CPU PCB on Booklet maker
MD6DC PCB on Square Folder
MD6DC PCB on Trimmer

USB to RS232 Converter

For connection to lap top missing serial port (RS232) **USB memory stick**
For Booklet maker User Interface

3.3 SD-500 / 350 Booklet Maker User Interface upgrade, please note the detailed steps below:

Double-click the file and follow the instructions given in the software loader.

XXXXXX-x.xx (User Interface)

1. Copy the file "**XXXXXX-1.00.rman**" to the root folder of an USB stick.
2. Power off the SD-BM350/500.
3. Insert the USB stick in the USB port on the back side of the user interface.



4. Power on the SD-BM350/500. Available files will be shown.
5. Select the file **XXXXXX x.xx** and press the Install button.
6. Press Yes in the dialog box that comes up (see details in screenshots below)
7. Follow instructions on screen.
8. Perform an NVM Reset (GP 20 NVM Reset in the Service Manual, and attached to this document).

3.4 SD-500 / 350 Booklet Maker CPU upgrade, please note the detailed steps below:

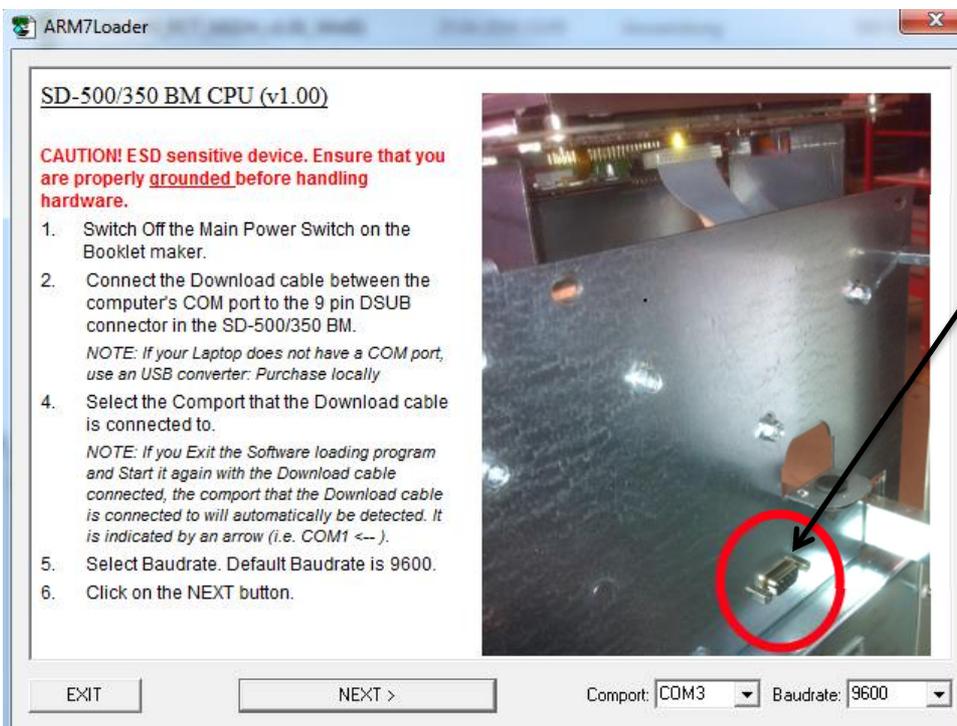
Double-click the file and follow the instructions given in the software loader.

XXX500_350 CPU v x.xx Win02 (Controller PCB "A")

Note: If loading CPU software you must follow the Software Release Document

Example:

SD-500_350_BM_CPU_v1.00_Win02 25.04.2016 15:05 Anwendung 800 KB



Please use the **SW Download cable DB9M to DB9F** for loading software to the CPU PCB on Booklet maker. If your laptop is missing the serial port (RS232) please add the **USB to RS232 Converter Cable** to the SW Download cable DB9M to DB9F.

Note:

If you have problems with comport settings / connection, please follow the instruction in [USB_to_RS-232_Adapter Manual_V14.7.2.pdf](#), which is available within **CSES-ID: TNEU1600156EN**

You will find the drivers for different OS versions as well.

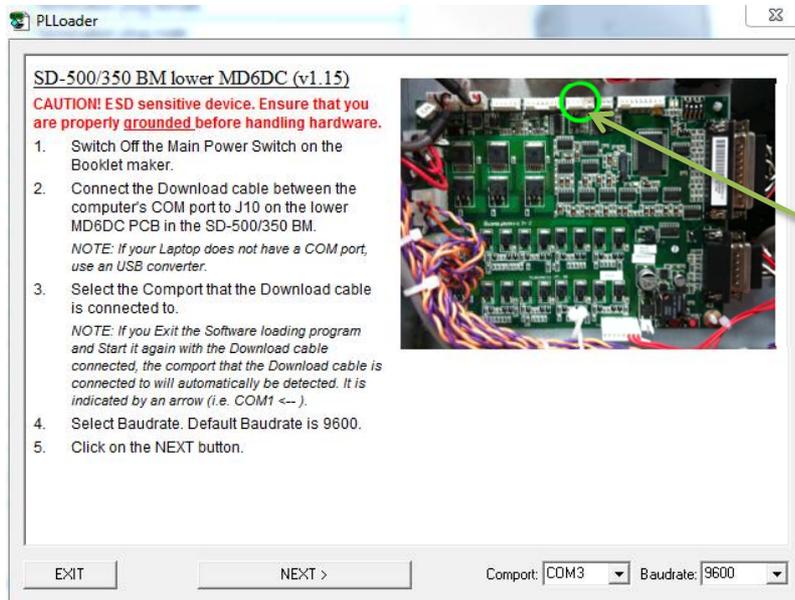
3.5 MD6DC PWB lower, middle and upper PCB of SD-350 / 500 upgrade. If upgrade is needed:

Double-click the file and follow the instructions given in the software loader.

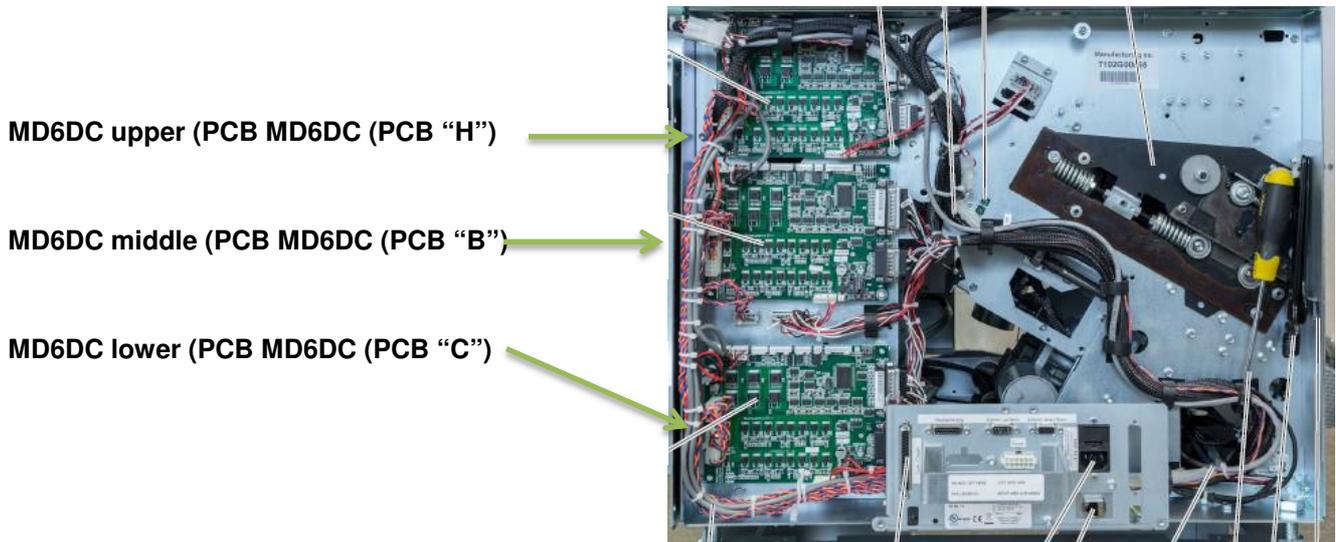
- XXX500_350 MD6DC upper v x.xx Win05 (upper PCB "H")
- XXX500_350 MD6DC middle v x.xx Win05 (middle PCB "B")
- XXX500_350 MD6DC lower v x.xx Win05 (lower PCB "C")

Example:

	SD-500_350_BM_MD6DC_lower_v1.15_Win05	25.04.2016 15:05	Anwendung	556 KB
	SD-500_350_BM_MD6DC_middle_v1.15_Win05	25.04.2016 15:05	Anwendung	556 KB
	SD-500_350_BM_MD6DC_upper_v1.15_Win05	25.04.2016 15:05	Anwendung	580 KB



Please use the **SW Loading cable RS232 4+2P** for loading software to the lower, middle and upper MD6DC PWB on Booklet maker. If your laptop is missing the serial port (RS232) please add the **USB to RS232 Converter Cable** to the SW Download cable DB9M to DB9F.



SD-350 / 500 rear side

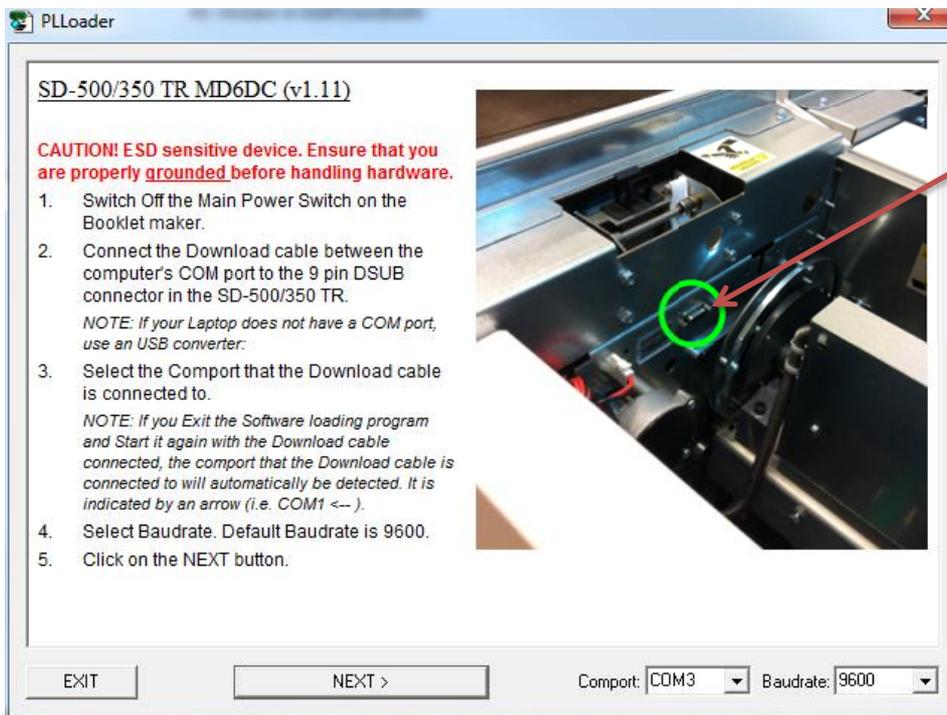
3.6 Trimmer Module, MD6DC PWB:

Double-click the file and follow the instructions given in the software loader.

XXX Trimmer MD6DC v x.xx Win05 (PCB "A")

Example:

 SD-500_350_TR_MD6DC_v1.11_Win05 25.04.2016 15:05



Please use the SW Download cable **DB9M to DB9F** for loading software to the MD6DC PCB on Trimmer and Square Folder. If your lap top is missing the serial port (RS232) please add the **USB to RS232 Converter Cable** to the SW Download cable DB9M to DB9F.

3.7 Square Fold Module, MD6DC PWB:

Double-click the file and follow the instructions given in the software loader.

XXX Square Fold MD6DC v x.xx Win05 (PCB "D")

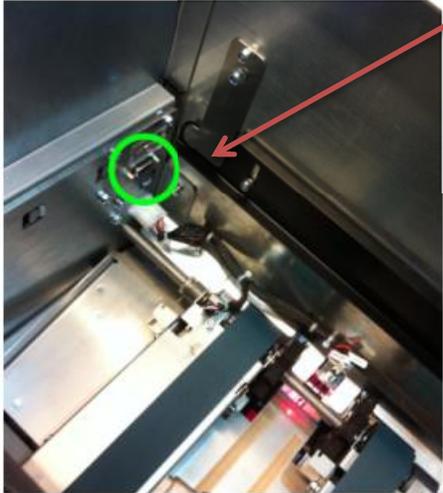
Example:

SD-500_350_SQF_MD6DC_v1.11_Win05 25.04.2016 15:05

PLLoader

SD-500/350 SQF MD6DC (v1.11)
CAUTION! ESD sensitive device. Ensure that you are properly grounded before handling hardware.

1. Switch Off the Main Power Switch on the Booklet maker.
2. Connect the Download cable between the computer's COM port to the 9 pin DSUB connector in the SD-500/350 SQF.
NOTE: If your Laptop does not have a COM port, use an USB converter. Purchase locally
3. Select the Comport that the Download cable is connected to.
NOTE: If you Exit the Software loading program and Start it again with the Download cable connected, the comport that the Download cable is connected to will automatically be detected. It is indicated by an arrow (i.e. COM1 <--).
4. Select Baudrate. Default Baudrate is 9600.
5. Click on the NEXT button.



EXIT NEXT > Comport: COM3 Baudrate: 9600

Please use the SW Download cable **DB9M to DB9F** for loading software to the MD6DC PCB on Trimmer and Square Folder. If your laptop is missing the serial port (RS232) please add the **USB to RS232 Converter Cable** to the SW Download cable DB9M to DB9F.

3.8 RCT Module, CPU upgrade:

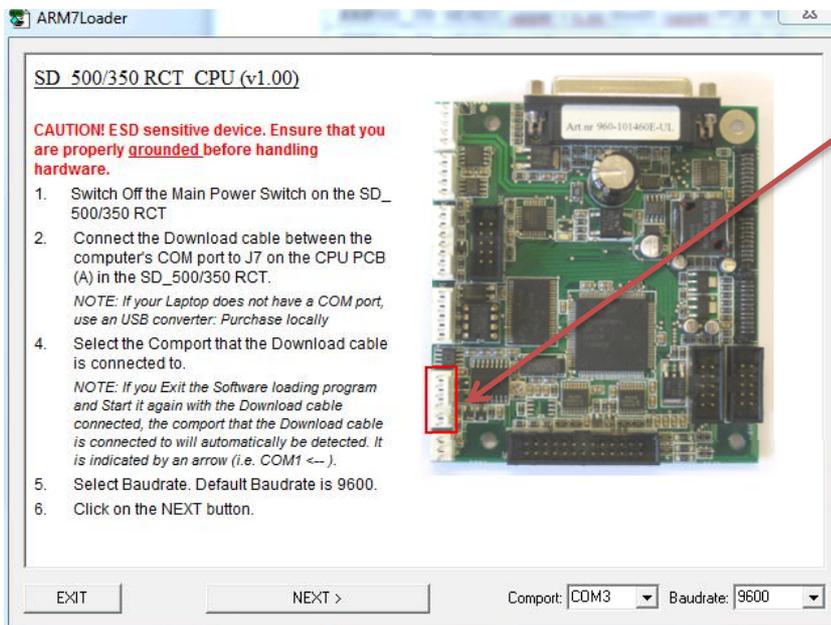
Double-click the file and follow the instructions given in the software loader.

XXX RCT CPU v x.xx Win02 (Controller PCB "A")

Note: If loading CPU software you must follow the Software Release Document.

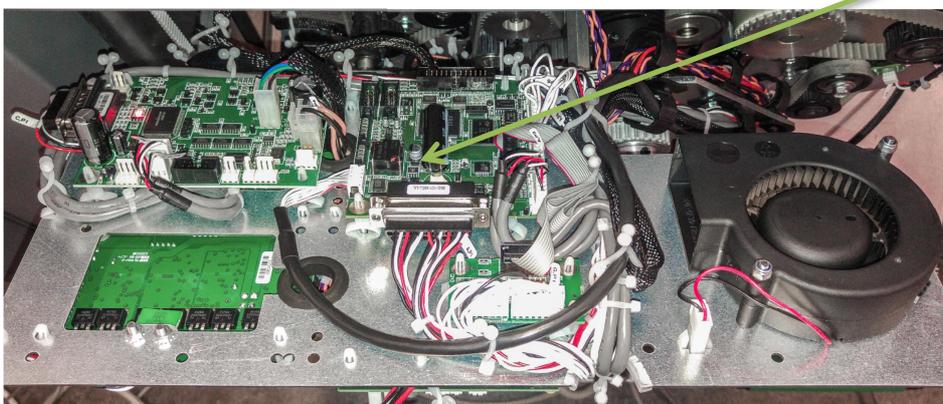
Example:

 SD-500_350_RCT_CPU_v1.00_Win02 25.04.2016 15:05



Please use the **SW Loading cable RS232 4+2P** for loading software to the CPU PCB on RCT. If your laptop is missing the serial port (RS232) please add the **USB to RS232**

PCB Controller PCB "A"



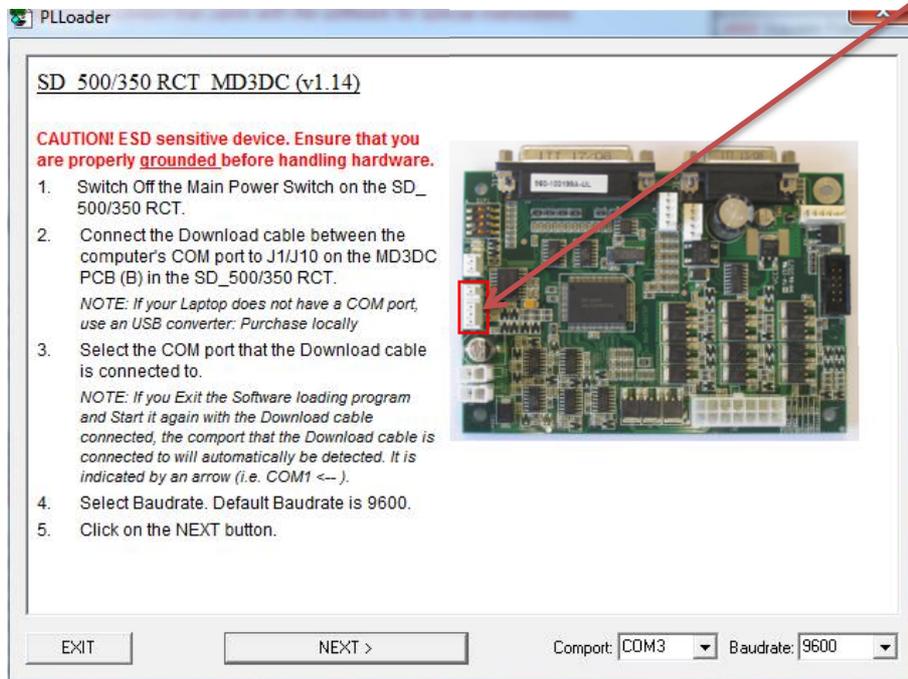
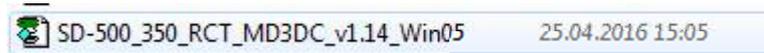
PCB MOUNTING PLATE 1

3.9 MD3DC PWB of RCT upgrade, if needed:

Double-click the file and follow the instructions given in the software loader.

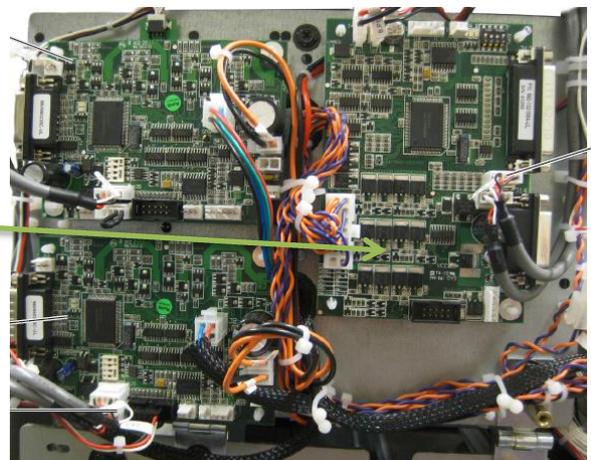
XXX RCT MD3DC v x.xx Win05 (PCB "B")

Example:



Please use the **SW Loading cable RS232 4+2P** for loading software to the CPU PCB on RCT. If your laptop is missing the serial port (RS232) please add the **USB to RS232**

PCB MD3DC PCB "B"



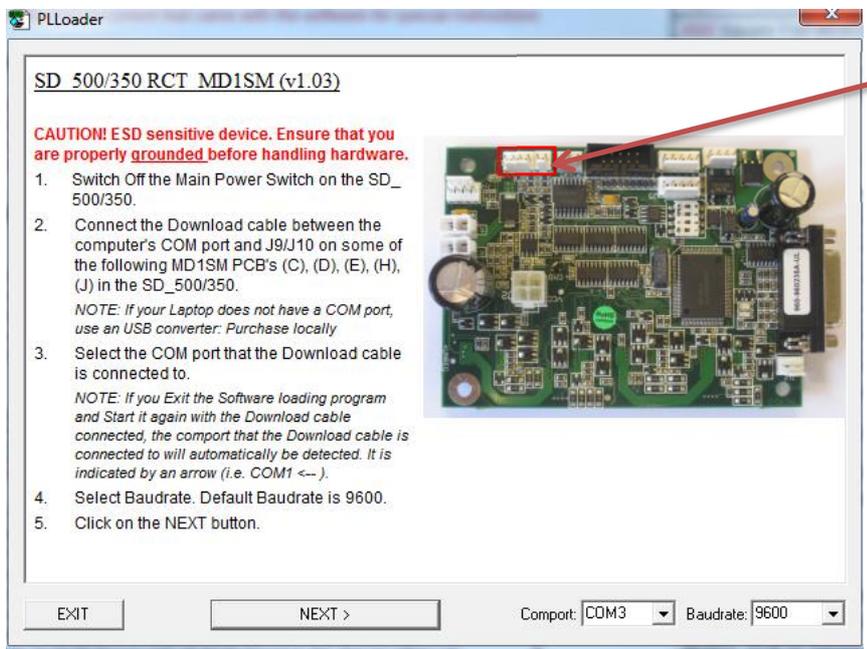
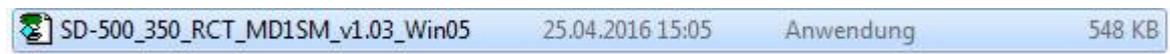
PCB MOUNTING PLATE 2

3.10 MD1SM PWB of RCT, if needed, please perform the following action:

Double-click the file and follow the instructions given in the software loader.

- XXX RCT MD1SM v x.xx Win05 (PCB "C")
- XXX RCT MD1SM v x.xx Win05 (PCB "D")
- XXX RCT MD1SM v x.xx Win05 (PCB "E")
- XXX RCT MD1SM v x.xx Win05 (PCB "H")
- XXX RCT MD1SM v x.xx Win05 (PCB "J")

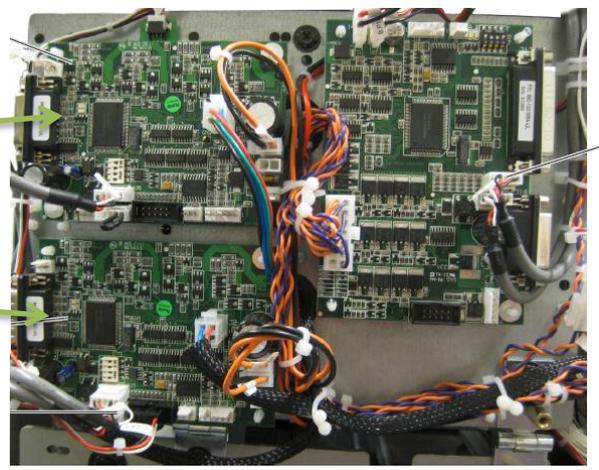
Example:



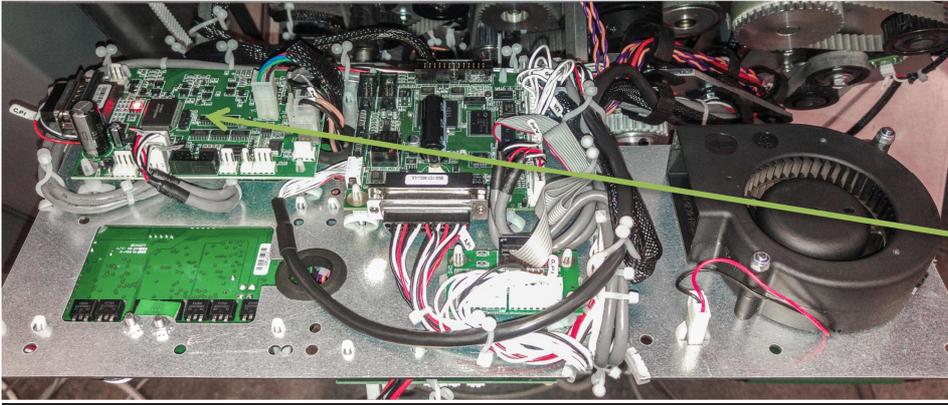
Please use the **SW Loading cable RS232 4+2P** for loading software to the CPU PCB on RCT. If your laptop is missing the serial port (RS232) please add the **USB to RS232**

PCB MD1SM PCB "E"

PCB MD1SM PCB "D"



PCB MOUNTING PLATE 2

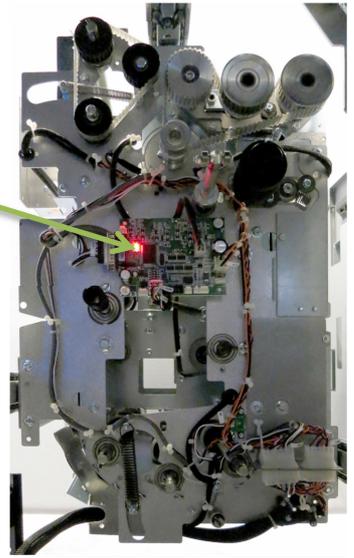


PCB MD1SM PCB "C"

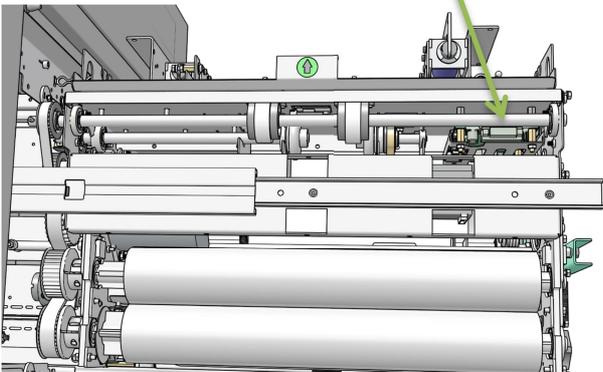
PCB MOUNTING PLATE

PCB MD1SM PCB "H"

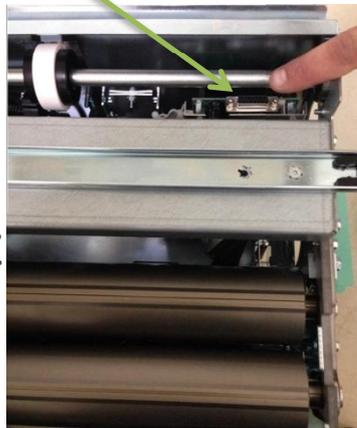
PCB MD1SM PCB "J"



RCT Slide section rear view



ROTATOR SECTION 2

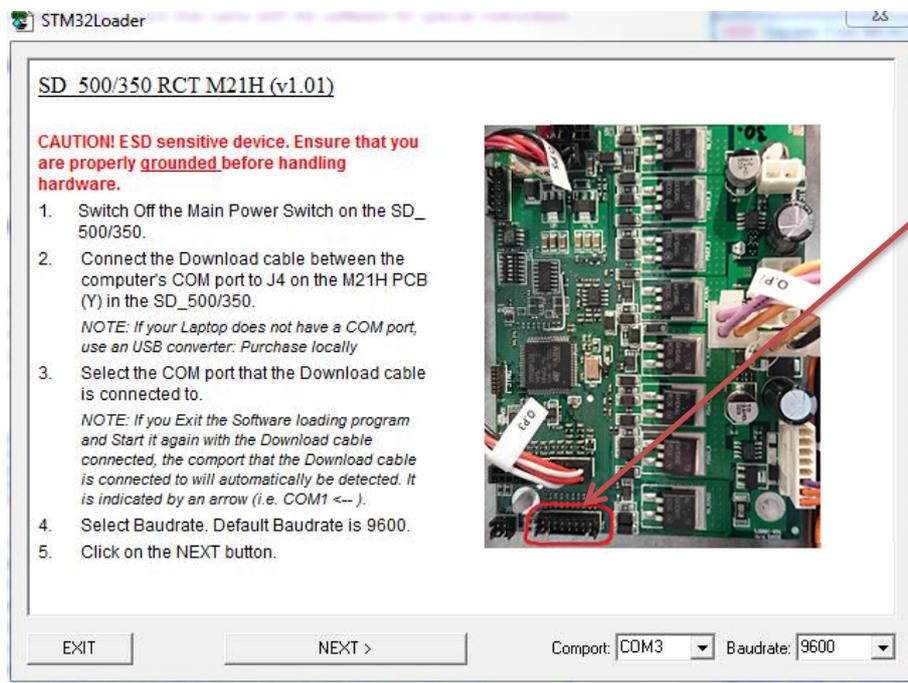


3.11 M21H PWB of RCT, if needed, please perform the following action:

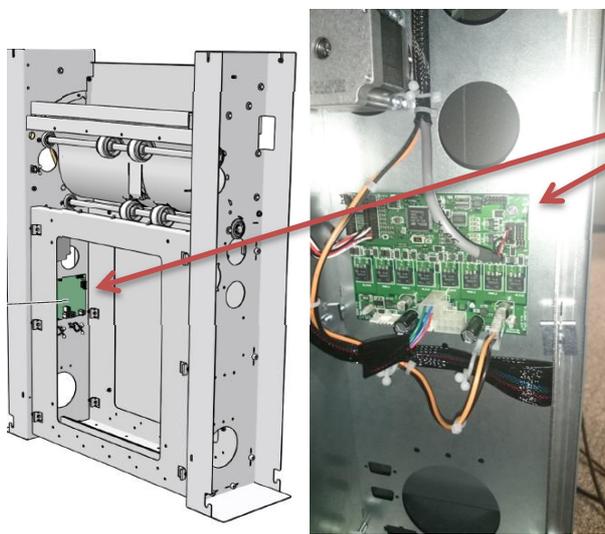
Double-click the file and follow the instructions given in the software loader.

Example:

 SD-500_300_RCT_M21H_v1.01_Win01 25.04.2016 15:05 Anwendung 560 KB



Please use the **SW Loading cable 960-108436** for loading software to the CPU PCB on RCT. If your laptop is missing the serial port (RS232) please add the **USB to RS232**



PCB M21H PCB "Y"

Interface module rear side

GP 20 NVM Reset

1. Purpose

The NVM Reset procedure is used to recover booklet quality base NVM values for side guides, staple stop gate, fold stop gate, staple position, back jogger and trim knife zero.

The NVM Reset procedure is used after updating software, replacing the PCB Controller, PCB A, PCB Printer interface, PCB E (BM) or F (RCT), or when a part affecting the booklet quality has been replaced.

The NVM reset procedure can also be initiated to resolve minor logic problems.

2. Procedure

General procedure to perform NVM reset is described below. Depending on circumstances, exact procedure to retrieve NVM values may vary, see flowcharts further below.

NOTE:

All data in the EEPROM will be cleared including jobs, jam history etc. The only data not cleared are the Staple, Fold, Trim, Cover Feed, Rotator, Crease and Bleed Trimmer counters.

1. Enter the service menu (GP 1).
2. Select target (module) BM.
3. Select item [NVM].
4. Record NVM values: BM: Index 2-7 and 11.
5. Press [Home] to reach Target selection menu.
6. Select target (module) [RCT].
7. Select item [NVM].
8. Record NVM values: RCT: Index 2-4.
9. Press [Go back] to reach RCT Service Components menu.
10. Select item [Reset NVM]. Follow on screen instruction.
11. Press [Reset]. Read/follow on screen instructions. Press [Go back] to reach RCT Service Components menu.
12. Select item [NVM].
13. Re-enter NVM values RCT: Index 2-4 recorded in step 8.
14. Press [Home] to reach Target selection menu.
15. Select target (module) [BM].
16. Select item [Reset NVM]. Follow on screen instruction.
17. Press [Reset]. Read/follow on screen instructions. Press [Go back] to reach BM Service Components menu.
18. Select item [NVM].
19. Re-enter NVM values BM: Index 2-7 and 11 recorded in step 4.
20. Press [Go back] to reach BM Service components menu.
21. Select [Printer] (GP 8).
22. If present, enable Cover Feeder Module (GP 14).
23. Press [Home] to reach Target selection menu.
24. Press [Exit service] when ready to exit service mode.

3. Flowcharts

