nloratec.

ROM Write Utility

Operating Instructions

Ver. 3.2

11/10/09



Introduction

The ROM Write Utility is a PC based program that allows the technician to update the firmware on the Main Control Board and PCL Print Option Board of Muratec machines. This booklet contains instructions on how to install and perform an update procedure using the ROM Write Utility.

The ROM Write Utility is available free of charge to authorized Muratec servicing dealers. The utility can be downloaded from the Muratec technical support web site. The ROM Write utility is in a Win Zip file. The file contains the ROM Write utility and Operating Instructions. It will be necessary to unzip and extract the ROM Write Setup executable file after downloading.

It is also necessary to download the latest Main Control Board and PCL Print Option firmware flash files from the Muratec technical support web site. These files are located in "Machine Update Files" folder. Download the files for the machines to be updated. The update files are in Win Zip files. It will be necessary to unzip and extract the files after downloading.

The following is a list of Muratec machines and PCL Print Option boards that can be updated using the ROM Write Utility:

MFX-2850	F-525	F-300	PCL500 (OP500)
MFX-2350	MFX-2030	MFX-1350	MFX-2855
MFX-2830	MFX-1430	F-305	MFX-2355
MFX-2050	F-560	MFX-1950	
MFX-1450	F-520	F-315	
F-565	MFX-1330	PCL550 (OP550)	

Important: You cannot update the firmware in the following situations:

- 1. The machine is transmitting
- 2. The machine is scanning
- 3. The machine is receiving
- 4. There are documents stored in memory
- 5. The back-up battery is not sufficiently charged

In that case, wait until the transmission, scanning, receiving or printing is completed or the documents stored in memory are transmitted or deleted. The machine must typically be powered on 24 – 48 hours for the battery to be sufficiently charged.

ROM Write Utility Installation

1. On the PC where the ROM Write utility was downloaded, double-click the RomWrite Setup.exe icon to start the Installer Program.



2. The InstallShield Wizard will start. Click on Next.



3. Click on Install.

m settings, ci	ick Back. Clici	k Cancel to exit
m settings, ci	ick Back. Clici	k Cancel to exit
in settings, cli	ick Back. Click	k Cancel to exit
Back	Install	Cancel
	(<u>B</u> ack	(<u>B</u> ack

4. When the installation is completed, click on **Finish**.



Installing the USB driver on the PC

Installing the USB driver typically only needs to be performed on time. Once the USB driver is installed, the PC will not prompt you to install the USB driver.

- 1. At the machine, press **Settings**, *****, **9**, **8** (or **Menu**, *****, **9**, **8** depending on the model). The following screen will appear.
 - MFX-2850/2350/2830/2855/2355:

ROM Update	
	Enter
MainBoard	
DP500	

• MFX-2050/1450/F-565/F525, MFX-2030/1430/F-560/520:

ROM Upgrade	
	Enter
Nain Board	
NGP Board	
Panel Board	
Nain & NGP	
QP500	

• MFX-1350/F-305, MFX-1330/F-300, MFX-1950/F-305:

Rom Upgrade Mainboard

- 2. Select **Main Board** on the LCD screen. (On the MFX-13xx/F-30x, press **Enter**.) The following screen will appear.
 - MFX-2850/2350/2830/2855/2355, MFX-2050/1450/F-560/520, MFX-2030/1430/F-560/520:

ROM Update Connect the USB cable, and update the software.	
MainBoard	Enter
ROM Ver. 2850 USA A1ADAD	
Connect the USB cable, and update the software.	

• MFX-1350/F-305, MFX-1330/F-300, MFX-1950/F-315:

1330 USA CxA0A0

- 3. Connect the PC and the Muratec unit with a standard USB cable.
- 4. When using Windows 2000 and Windows XP, the new hardware is detected and the new hardware wizard will open. Windows will now require the installation of the USB driver. **NOTE:** The screens may differ slightly depending on the PC's operating system.

5. Select **Yes, this time only**. Then click on **Next**.

Found New Hardware Wizard	
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Flead our privacy policy
	Can Windows connect to Windows Update to search for software?
	⊙ Yes, this time only
	C Yes, now and every time I connect a device
	C No, not this time
	Click Next to continue.
	< Black Next > Cancel

6. Select Install from a list or specific location (Advanced). Then click on Next.



7. Select **Include this location in the search.** Browse to the location of the USB driver (C:\Program Files\Muratec\RomWrite\USBDRIVER). Click on **Next**.

bund New Hardware Wizard	
Please choose your search and in	istallation options.
Search for the best driver in thes	e locations.
Use the check boxes below to lin paths and removable media. The	nit or expand the default search, which includes local best driver found will be installed.
Search removable <u>m</u> edia ((loppy, CD-ROM)
Include this location in the	search:
C:\Program Files\Muratec	RomWrite\USBDRIVER
O Don't search. I will choose the dr	rverto install.
Choose this option to select the d the driver you choose will be the l	levice driver from a list. Windows does not guarantee that best match for your hardware.
	< Back Next > Cancel

8. The USB driver will be installed automatically.



9. Click on Finish.



Updating the Firmware using ROM Write

The process of updating the Main Control Board and the PCL Print Option is basically the same, except choose **OP500 (or OP550)** in step 4 instead of **Main Board**.

1. The RomWrite utility is registered in the All Programs menu.



2. Select **RomWrite.exe** and open the ROM Write utility.

Version	Name	File name		
			Browse	Clear

3. Click on **Browse** and select the flash file.

Selected Rom File In	nformation		
Version Name	File name		
2850_USA_C3A0A0	2850_C3A0A0.usa	Browse	Clear
Start	Check Sum	Close	
(Ma	in Control Board Flas	h File)	
(Ma ect Rom for USB	in Control Board Flas	h File)	
(Ma ect Rom for USB	in Control Board Flas	h File)	
(Ma ect Rom for USB elected Rom File In Jersion Name	in Control Board Flas formation File name	h File)	
(Ma ect Rom for USB elected Rom File In: Version Name OP-500 Firm ROM	formation File name	h File)	Clear

(PCL Board Flash File)

- 4. At the machine, press **Settings**, *****, **9**, **8**. (Or **Menu**, *****, **9**, **8** depending on the model). The following screen will appear.
 - MFX-2850/2350/2830/2855/2355:

Enter

• MFX-2050/1450/F-565/525, MFX-2030/1430/F-560/520:

ROM Upgrade	
	Enter
Nain Board	
NGP Board	
Panel Board	
Main & NGP	
0P500	

• MFX-1350/F-305, MFX-1330/F-300, MFX-1950/F-315:

ROM	Upgrade	
Mair	nboard	

5. Select **Main Board (or OP500)** on the LCD screen. (On the MFX-1330/F-300, press **Enter**.) Depending on the model, the following screen will appear.

R Co an	OM Update nnect the USB cable, d update the software.	
	MainBoard	Enter
	ROM Ver. 2830 USA 040724	
	Connect the USB cable, and update the software.	

• MFX-1350/F-305, MFX-1330/F-300, MFX-1950/F-315:

MFX-1300 USA COAOAO

- 6. Connect the computer and the Muratec unit with a standard USB cable.
- 7. Click on Start.

Version Name File name 2850_USA_C3A0A0 2850_C3A0A0.use Browse Start Check Sum Close (Main Control Board Flash File) Close	Selected Rom File In	formation	
2850_USA_C3A0A0 2850_C3A0A0.usa Browse	Version Name	File name	
Start Check Sum Close (Main Control Board Flash File)	2850_USA_CSA0A0	2850_C3A0A0.usa	Browse Cle
(Main Control Board Flash File)	Start	Check Sum	Close
	(Mai	n Control Board Flash F	ile)

elected Kon File In		
Version Name	File name	
OP-500 Firm ROM	OP550_G1A0A0_PROG.BIN Browse C	lear

(PCL Board Flash File)

8. The ROM file will begin to upload to the machine.

Writing Rom		×
Fax Rom	Writing Rom V2800_JPN_B9A0A0	
0% Rate 🚺		100%
	Break	

9. When completed, the check-sum table will appear on the PC. Note: If the check sums do not match, turn the unit off and restart the flashing procedure.

Check Sum Table USB Rom Information Fax Rom Version Name Check Sum V2800 JPN C2A0A0 68BE	Selected Rom File Information Fax Rom Version Name V2800_JPN_B9A0A0 68BE
Check Sum Type • 16BIT[N] • 16BIT[R] • 8BIT	Check Sum are same.

After the file is uploaded, the machine will automatically erase the existing firmware, write the new firmware and reboot itself. There is no further user intervention required. This process is displayed differently depending on the model. The USB cable may be disconnected at this point.

- **MFX-2850/2830/2350/2855/2355:** The unit will reboot and the splash screen will be displayed. The mode lights on the left will count downward to signify the firmware being erased. It will count back upward to signify the new firmware being written. It will then reboot and return to standby. This may take several minutes.
- MFX-2050/1450, F-565/525 and MFX-2030/1430, F-560/520: The unit will reboot and the display will be blank. The Energy Saving light will flash. This signifies the old firmware being erased and the new firmware being written. It will then reboot and return to standby. This may take several minutes.
- MFX-1350/F-305, MFX-1330/F-300, MFX-1950/F-315: All the control panel LEDs will light with the following in the display:

1330	USA	DxA0A0
Recei	ving	4096 KB

This signifies the old firmware being erased and the new firmware being written. The unit will then reboot and return to standby. This may take several minutes.

Do NOT turn the power off, under any circumstances! After uploading the file, the machine will finish the process by itself. If the flashing process does not follow the above process, please call technical support for additional advice.

Checking the Firmware Version

1. Press **Setting**, *****, **0**, **9**. Select **Life Monitor** on the LCD screen. The firmware revision will be displayed.

TestFunction	
	Enter
Life Monitor	
Test Pattern Print	
Port Status	
Background level	
Roller Cleaning	
Test List	

2. On the MFX-1350/F-305, MFX-1330/F-300, and MFX-1950/F-315, press **Menu**, *, 0, 9, Enter.

No?			

3. Press **0**, **0** to display the firmware revision.

No?		
0: 1330	USA	E2A0A0



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