Firmware update instructions to V3.02 or V4.04 for Artista 165-185 series Sewing Machines and Embroidery Modules

Introduction

No. US-16546 25 Sept 2015 20:20 Firmware V4.04 and V3.02 for artista 165-185	The left column of text contains the original Bernina instructions for updating firmware. Additional notes and other useful information are contained in the right column.
Reason for the information The firmware for the artista 165-185 is to be made available in this way, so that it can be updated when necessary.	This document covers the update of firmware for the Artista 165-185 line of machines. Specifically to versions 3.02 or 4.04.
There are different reasons it may be necessary to update the firmware (FW). Both firmware versions are unchanged. While stocks last, CD 031025.73.00 (ARTISTA UPDATE) FW V4.04 will continue to be available.	Firmware CD is not necessary for the upgrading process as long as you have access to the zip file containing the tools and files necessary to perform the update.
Explanation for the Different Firmware Versions After replacement of the S-Print (the machine's or the embroidery module's), the language of the machine may require changing via FW update. If the firmware versions of the machine and embroidery module are different, they must be harmonised.	S-Print is the main circuit board of the sewing machine or embroidery module. If the main board is changed, a firmware update with language setting may be necessary. The version of firmware on the machine and the embroidery module must match of the machine will not recognize the module.
The original FW will differ depending on the year of manufacture of the sewing machine and the embroidery module. The S-PRINT and EMBROIDERY MODULE PRINT SRM come as replacement parts with version FW 4.04.	

Model	Year of Manufacture	Original FW	FW on S-Print as replacement part
a185	42-44	4.04	4.04
a180	38-42	3.02	4.04
a170	38-40	3.02	4.04
a165	40-42/42-44	3.04/4.04	4.04
Embroidery module a185	42-44	4.04	4.04
Embroidery module a165-180 4MB	40-44	3.02/4.04	4.04
Embroidery module a165-180 2MB (with card slot)	42-44	3.02	No longer available

Note:
Only machines and embroidery modules with the same FW Version work together. Depending on the year of manufacture, this can be 4.04 or 3.02. It is not recommended that you update an old S-print with a new FW version

Explanation of the information on the production sticker up to 2008

Type = Model series of the machine
Ch Nr = Production Number (Ch Nr). The first two digits are the year of manufacture (Example: 39=1999, 40=2000 etc.)
Last two digits of Ch Nr = Month of manufacture. (Example 06=June)

Introduction to the upgrade files

The upgrade package consists of instructions in a PDF file and one or both of two ZIP archive files. You will need to download the appropriate ZIP file for the version you are going to update your machine and embroidery module to. For most systems, you may be asked for security purposes to confirm that you want to install or run the file(s).

The version 3.02 folder contains the executable file “ArtistaUpdate.exe” and all the support files. To run the program you open the folder containing the unpacked files in File Explorer and double click (or right-click and “open”) the executable.

The version 4.02 package must be installed using the “Setup.exe” file. On running, the Install Shield package will guide you through the basic installation process. Once installed you will have a Bernina program group in your start menu programs and the program “ArtistaUpdate4.04”

The software can be deployed on any Windows PC that is using Operating Systems from Windows versions XP (SP3), Vista (SP2), Windows 7, Windows 8, Windows 8.1 through Windows 10. You will need a hardware serial port on the machine or a USB/RS232 adapter on the machine that is mapped to COM 1, 2, 3, or 4. The software is not capable of using any other com ports.

The program will start with a dialog box asking you to designate the communications port connected to the sewing machine.

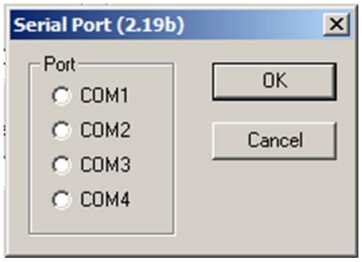


Figure 1 Serial Port Selection Dialog

Once the program starts, you will get the main dialog. Instructions and messages will appear in the box just above the <Cancel> <OK> buttons. Carefully read and follow these instructions.

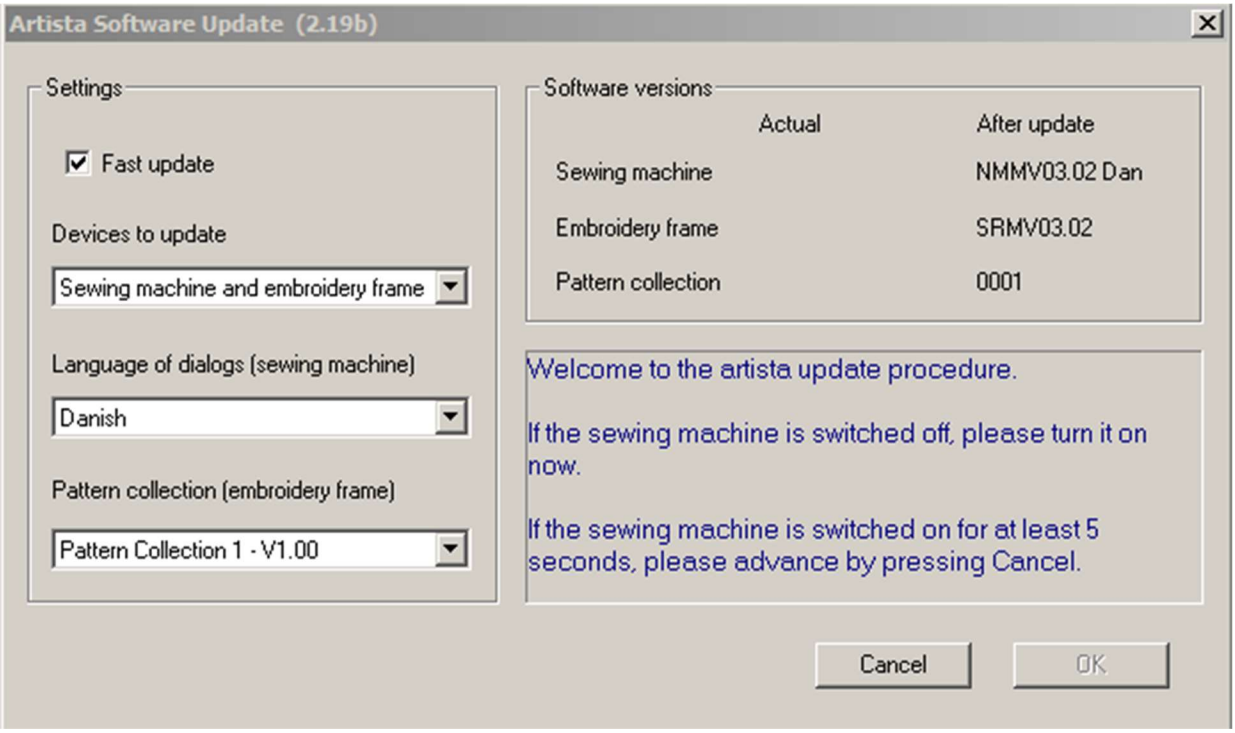


Figure 2 Main Artista firmware upgrade dialog.

Options are selected on the left side for the update process. The versions are displayed in the upper right box.

Identifying the current version(s) of firmware

Reading out the current FW version For machines and embroidery modules with the same FW ■ Switch off machine ■ Connect embroidery module with machine ■ Start machine ■ under Setup->Service->Version, FW version can be read out.	If you know both the embroidery module and sewing machine have the same version firmware (or if the embroidery module has a lower version firmware), you can use the machine Setup menu to view the version. In Figure 6, the machine version is 3.00 English language and the Embroidery module is currently at version 3.02.



Figure 3 Setup button on the front of the 180 machine.

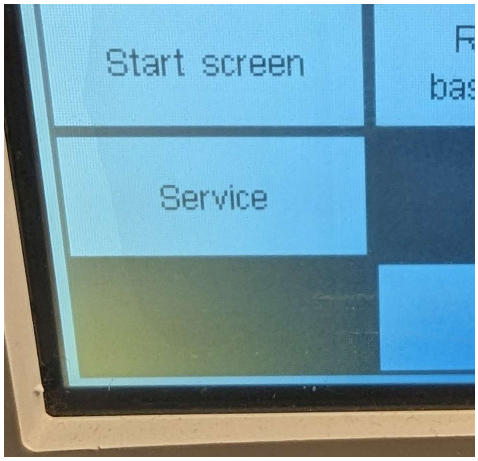


Figure 4 Service menu option.

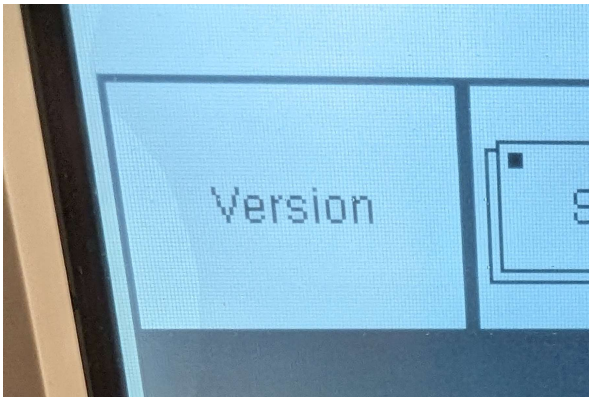


Figure 5 Version option under Service menu.

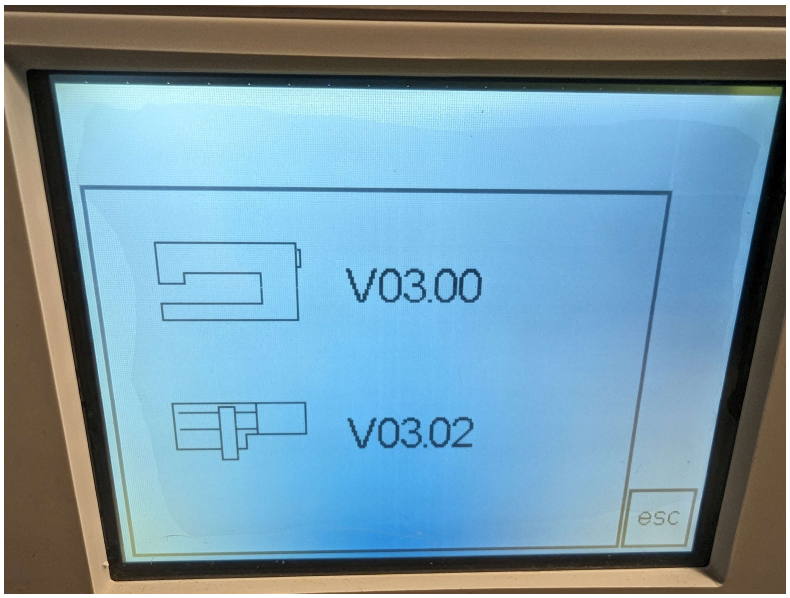


Figure 6 Version display on the 180.

For machines and embroidery modules with different FW ■ Switch off machine ■ Connect embroidery module with machine ■ Connect serial RS232 cable with computer and machine ■ Start 'ArtistaUpdate.exe' update program on computer ■ Select correct COM1-4 port ■ In "Devices to update" window select "Sewing machine and embroidery frame" ■ In "Language of dialogs (sewing machine)" window, select desired model and desired language	In Figure 7, the machine version is 3.00 English language and the Embroidery module is currently at version 2.08 with pattern collection 001 loaded.

■ Switch on machine ■ Machine starts in "Embroidery mode" ■ The FW version can now be read out on the PC's screen, even if the machine and embroidery module are different.	
If both read-out variants are not possible, check the connection to the embroidery module; there may be a technical fault.	
If the FW versions of the machine and embroidery module are different, the FW of the machine must be adapted to the embroidery module's version.	

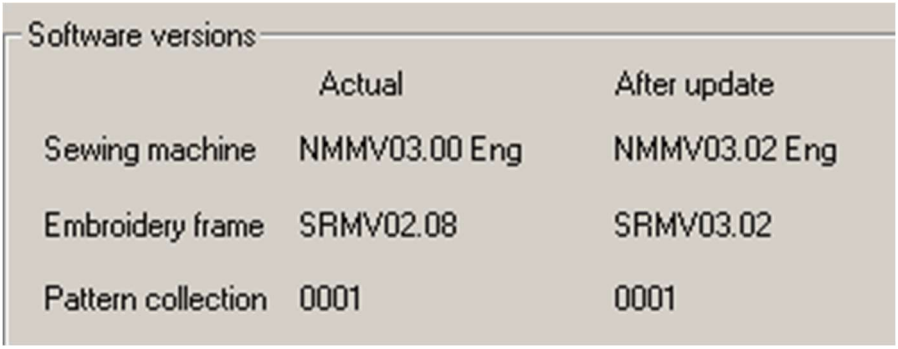


Figure 7 Version results using the V3.02 firmware update tool. Current version is on the left.

Updating the firmware for the artista 165-185

Recommended requirements: ■ Computer with Windows XP SP3, Windows Vista SP2, W7, W8, W8.1 or W10 operating system. ■ System type: 32 bit or 64 bit operating system ■ RS232 serial interface (COM 1-4), or USB RS232 adapter with configuration option for COM 1-4 ■ RS232 cable ■ Interconnect connection for downloading files	● The update software will run on Windows versions XP (SP3), Vista (SP2), Windows 7, Windows 8, Windows 8.1 or Windows 10. ● You will need a serial cable (DB9) to connect a computer to the sewing machine. If your computer does not have a hardware serial port, you will need to get a USB/RS232 converter cable that can enable a serial port as COM 1, 2, 3, or 4 to make the connection. The software will not work on other port numbers.

Note
The instructions show you step-by-step the update process for the artista 165-185 firmware. These instructions are valid for all firmware versions. Filenames and illustrations used may vary, depending on the update and the operating system installed.

Step 1: Downloading the artista update program ■ Click on the desired Artista Update.zip file and save it to the PC. ■ Unzip the file ■ Start the program by double clicking on the file "ArtistaUpdate.exe"	See the section titled **Introduction to the upgrade files** for more accurate instructions on unpacking the update files based on the specific version number and starting the program.

Step 2: Updating the firmware ■ Switch off machine ■ If the embroidery module is to be updated, connect it with the machine ■ Connect serial RS232 cable with computer and machine ■ Start "ArtistaUpdate.exe" update program on the computer ■ Select correct COM1-4 port ■ Select device to update (machine, embroidery module, or machine and embroidery module together)	Make sure you follow the instructions in the dialog box of the software as to when to switch the machine back on and which confirmation button to select.

Note
If machine and embroidery module are being updated separately from one other, begin with the embroidery module.



Figure 8 Machine and embroidery module connected to a laptop with an RS232 cable.

■ Select language of dialog (Machine's display language) ■ Confirm selection with "OK" ■ Switch off machine, wait 5 seconds and switch on again	Make sure you follow the instructions in the dialog box of the software as to when to switch the machine back on and which confirmation button to select.

■ FW will be loaded. ■ After completing update, switch off machine, wait 5 seconds and switch on again ■ The FW version can now be checked on the machine	

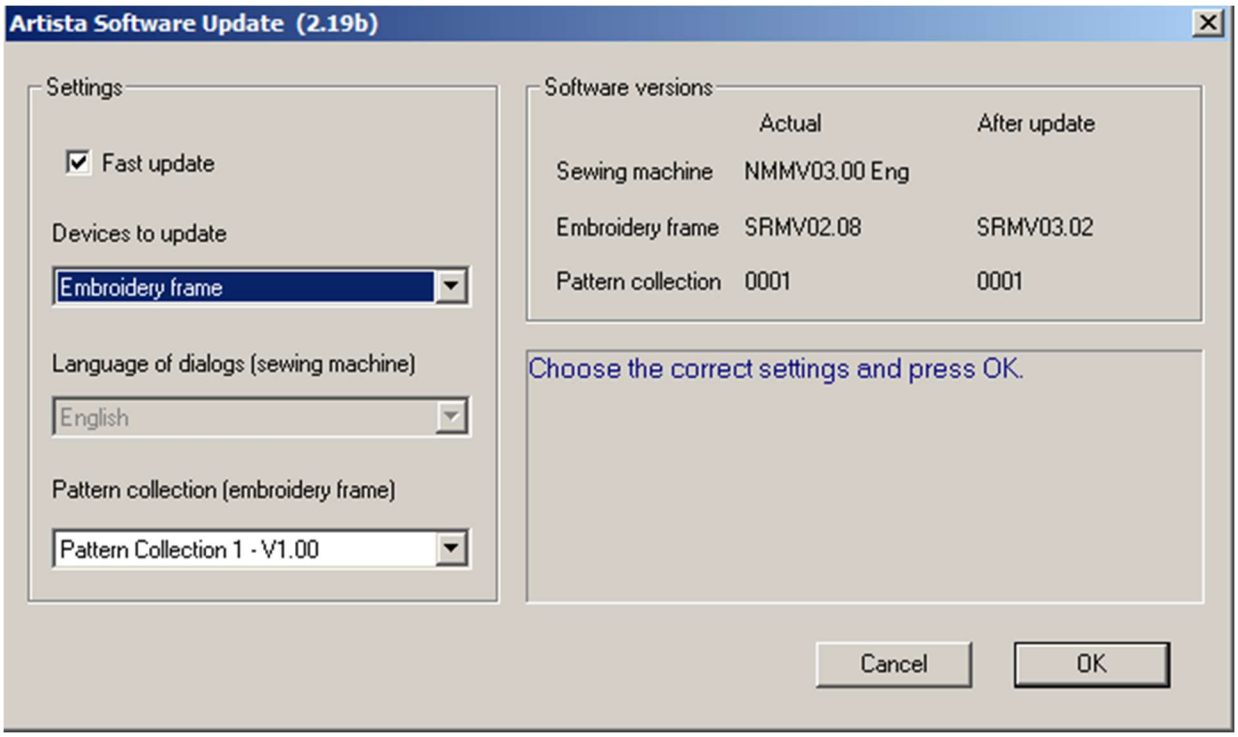


Figure 9 Showing update of Embroidery Frame first if version of machine does not match the embroidery module



Figure 10 Progress bar will show the update process. Make sure the power and connection are not interrupted during this period.

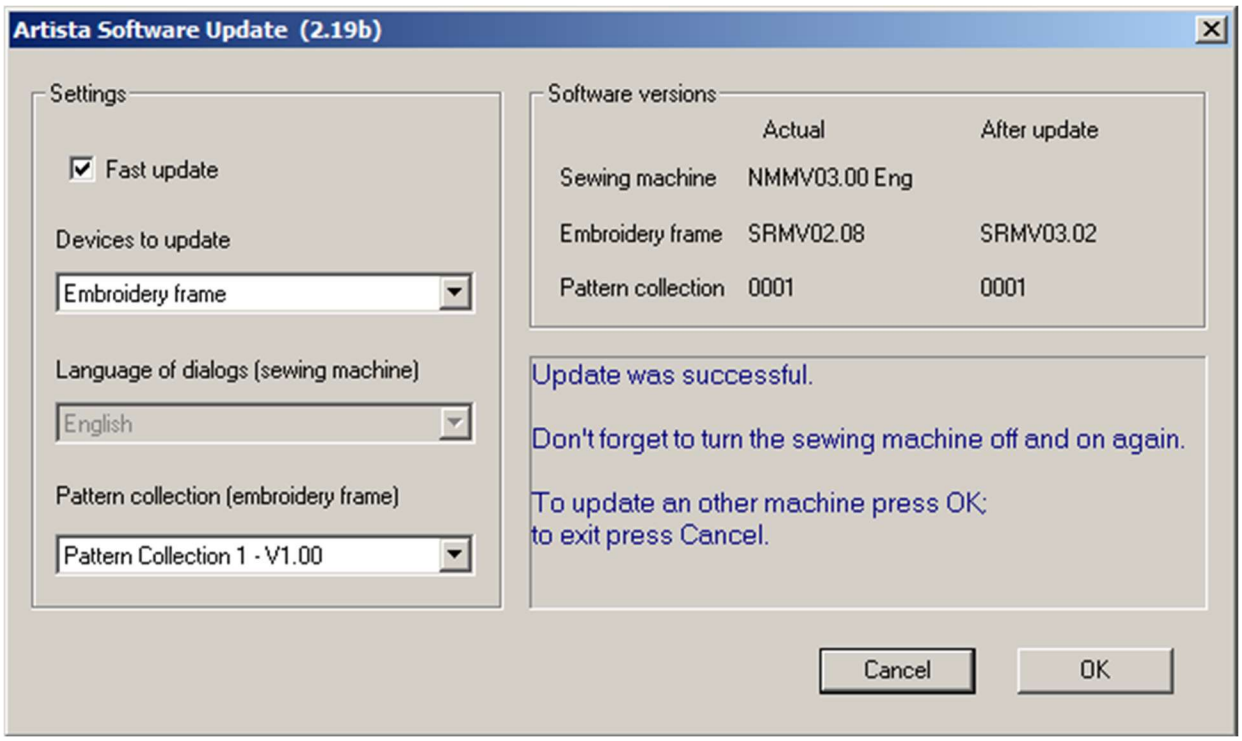


Figure 11 Successfully completed upgrade dialog