BERNINA 820 - Firmware Update

Note:

The instructions take you step-by-step through the download and the extraction of the firmware files to an USB memory stick (**FAT32 formatted)**. These instructions are also valid for further firmware updates – hence, the file names and illustrations used may be different, depending on the update, the installed operating system and the used Internet browser.

In this installation manual, illustrations from Windows® 7 and Windows® Internet Explorer 9 are used.

System requirements:

To update the firmware of the BERNINA 820 sewing computer requires:

- Computer with Windows XP® SP2 (SP3), Windows Vista™ SP2 or Windows® 7 (SP1) operating system
- System type 32 Bit or 64 Bit operating systems
- BERNINA 820 sewing computer
- User manual of the BERNINA 820
- Empty BERNINA USB-Memory Stick (**min. 256 MB / FAT32** [1]**- formatted)**
- Free USB-Port on Computer side
- An Internet connection for downloading the files

Step 1: Formatting USB-Stick (FAT32):

Important! USB stick must be FAT32 formatted. **If it isn't, the firmware update won't complete successfully.**
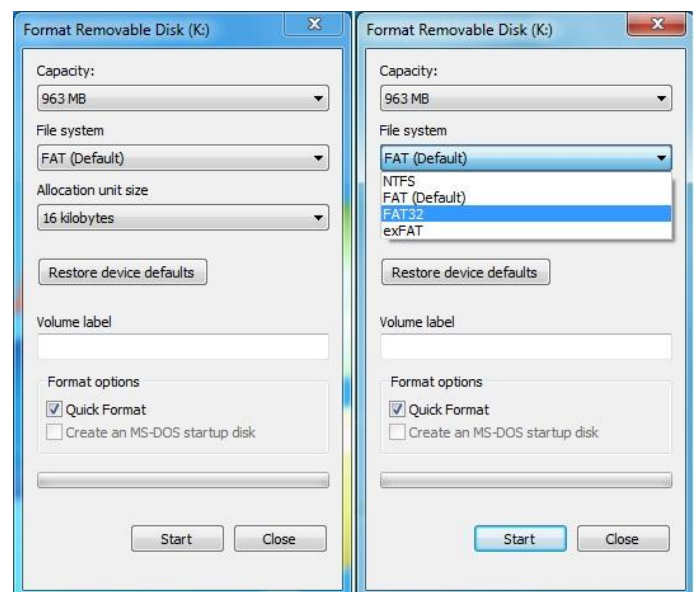
From this Software version on, the USB-Stick in use must be formatted to a new file system, the new format to be used: FAT32.

WARNING: Formatting will erase ALL data on this disk.

1.1. How to FAT32- format an USB stick:

a. Plug your USB stick into a free USB port on your PC.
b. Wait until the stick is ready for operation.
c. Open Windows Explorer.
d. Right-click on the USB stick drive.
e. Select 'Format' in the pop-up menu."
f. The second window contains information regarding file system.
   - If **FAT32** appears in the bar, formatting won't be necessary.
   - If a different value than **FAT32** appears, set the value to FAT32 and carry out the formatting.
g. Use [Start] to start FAT32 formatting.
   WARNING: Formatting will erase ALL data on this disk.
h. After successful formatting, the USB stick is ready for the firmware updating of the sewing computer.
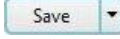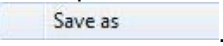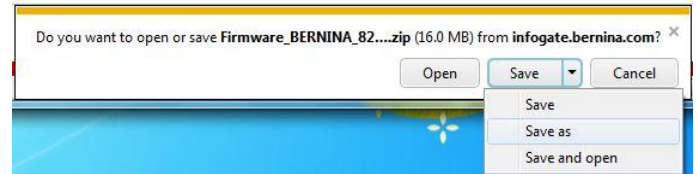

[1] FAT32: File Allocation Table.

Step 2: Download firmware version file

2.1. To start the download process, click on the link: [ZIP] Firmware BERNINA 820 Vxx.xx.xx (16.0MB) [1].
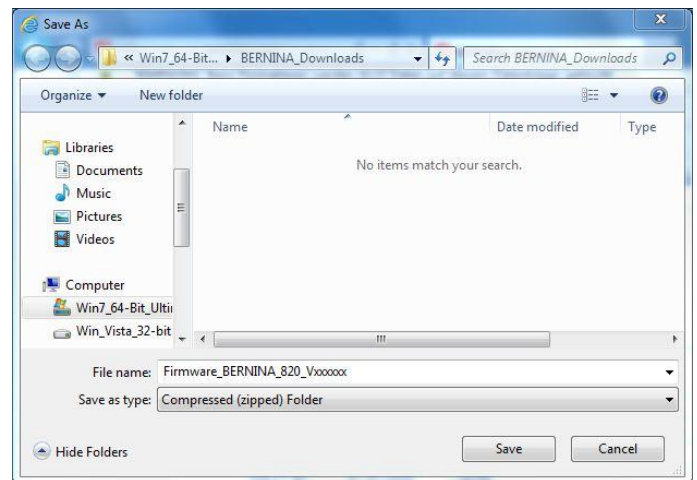
2.2. A dialog window will open:
Open the dropdown menu of [Save ▼] and select [Save as].

Do you want to open or save **Firmware_BERNINA_82....zip** (16.0 MB) from **infogate.bernina.com**? ×

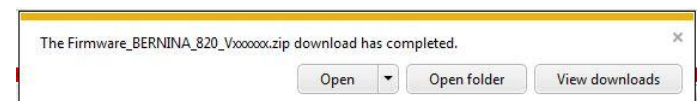Open | Save | ▼ | Cancel
Save
Save as
Save and open

2.3. A dialogue window „**save as…**" opens.
Select a directory on the local hard disk (as example: C:\BERNINA_Downloads), in which the file will be downloaded.
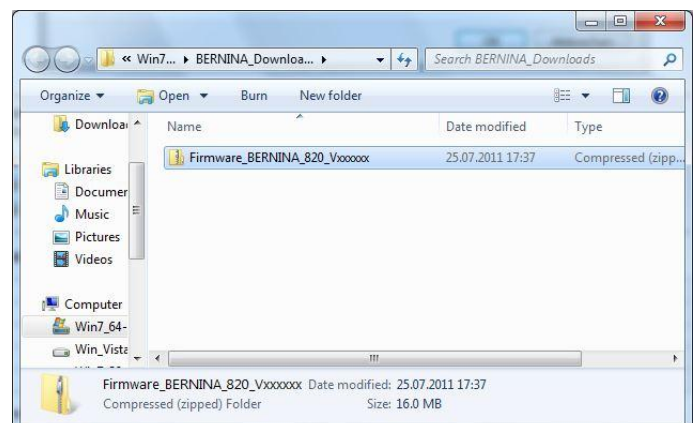
Confirm the selection with [Save].

Save As
« Win7_64-Bit ▶ BERNINA_Downloads | ▼ | � | Search BERNINA_Downloads 🔍
Organize ▼ New folder

Libraries
Documents
Music
Pictures
Videos

Computer
Win7_64-Bit_Ulti
Win_Vista_32-bit

Name | Date modified | Type
No items match your search.

File name: Firmware_BERNINA_820_Vxxxxxx
Save as type: Compressed (zipped) Folder

Hide Folders | Save | Cancel

2.4. The file will be saved to the selected directory to your Computer. (As example C:\BERNINA_Downloads).
(The time for downloading the file is dependent on the band width of your Internet connection).

2.5. Click on the [Open folder] button.

The Firmware_BERNINA_820_Vxxxxxx.zip download has completed. ×

Open | ▼ | Open folder | View downloads

2.6. Opening the folder:
„**Firmware_BERNINA_820_Vxxxxxx.zip**".[1]

« Win7... ▶ BERNINA_Downloa... ▶ | ▼ | � | Search BERNINA_Downloads 🔍
Organize ▼ Open ▼ Burn New folder

Downloa
Libraries
Documen
Music
Pictures
Videos

Computer
Win7_64-
Win_Vista

Name | Date modified | Type
Firmware_BERNINA_820_Vxxxxxx | 25.07.2011 17:37 | Compressed (zipp...

Firmware_BERNINA_820_Vxxxxxx Date modified: 25.07.2011 17:37
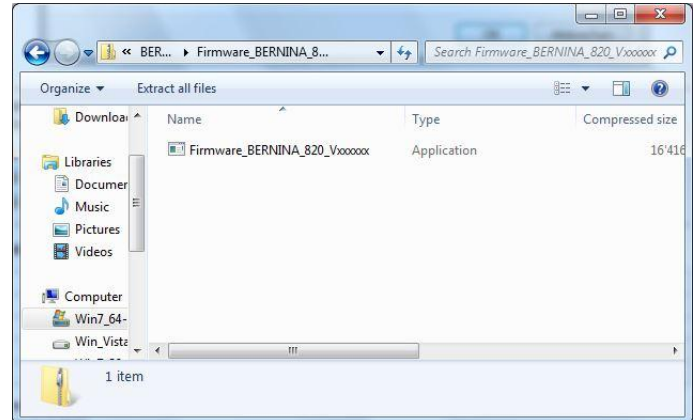Compressed (zipped) Folder Size: 16.0 MB

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[1] The „x" is standing for a number, the visible numbers show you the firmware versions
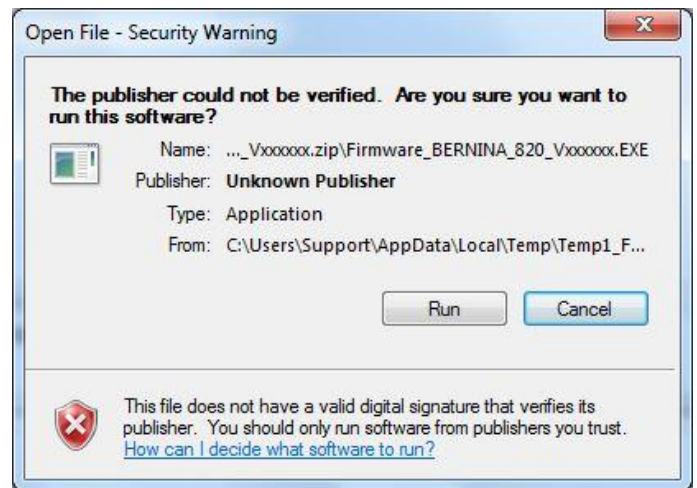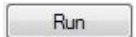
Step 3: Extract the firmware files

3.1. Plug on the Computer an empty USB-Memory Stick (**min. 256 MB / FAT32 formatted**) in one of the free and available USB-Ports.

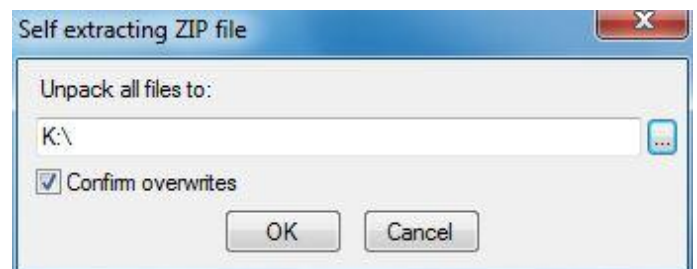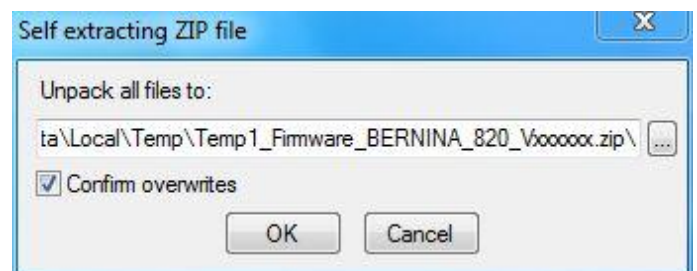3.2. To extract the files, click on the file:
„**Firmware_BERNINA_820_Vxxxxxx.exe**"[1].

3.3. Confirm the security information with Run.

3.4. The self-extracting Zip file starts the following dialogue:

Select by clicking on the button ⌐ the drive, where the empty USB-Memory stick is connected. (As example drive K :).
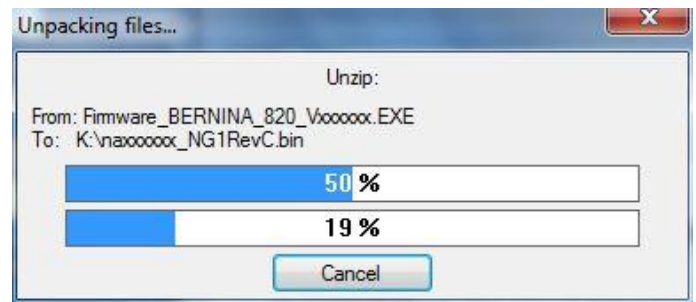
> **Attention: The firmware files may NOT be unpacked in one on the USB-Memory stick available subdirectory.**

3.5. Confirm the selection with OK.

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[1] The „x" is standing for a number, the visible numbers show you the firmware versions

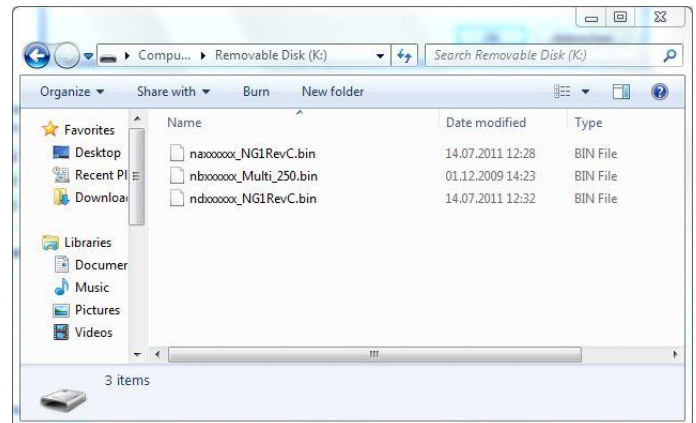3.6. The files become unpacked to the selected
USB-Memory Stick.

Step 4: Checking of the files

4.1. After the extraction, you will find the following
three (3) files, in the root of your USB-Memory
Stick:

- naxxxxxx_NG1RevC.bin [1] (Application)
- nbxxxxxx_Multi_250.bin[1] (Bootloader)
- ndxxxxxx_NG1RevC.bin [1] (Data)

(On your files, instead of the letter x will be shown
numbers).

Step 5: Update firmware of the BERNINA 820

5.1. The files are now ready to use for updating your BERNINA 820 Sewing computer.

For installing the new firmware on your BERNINA 820 sewing computer, please take your user manual of
the BERNINA 8-Series at hand: (Chapter: Setup Program).
Remove the BSR foot, if attached

Step 6: Checking the firmware version:

6.1. Go to the "Setup-Program" of your BERNINA 820 Sewing computer.

6.2. Open the information section: .

6.3. Touch three (3) times the button on the screen of your BERNINA 820.

6.4. On the information screen of your BERNINA 820 you will see the following information:

Version software: Vxx.xx.xx [1]
Version data: Vxx.xx.xx [1]
Version bootloader: Vxx.xx.xx [1]

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[1] The „x" is standing for a number, the visible numbers show you the firmware versions