



Embroidery Plus
Upgrade for B 880 & B 790

Edition notice

Fotos

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Text, Setting and Layout

BERNINA International AG

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1st Edition

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1 New functions

1.1 Thread-up command

The machine must be ready for embroidery to bring up the bobbin thread. The bobbin thread can be brought up in one step for a manual knotting. If no securing stitches are wanted, it is recommended to deactivate the securing stitches in the Setup.



- > Hold the upper thread.
- > Push the button «Bobbin thread up».
 - The bobbin thread is brought up automatically.

1.2 Selecting the embroidery file format

In order that embroidery motifs can be read by the BERNINA embroidery machine, they have to be created by the BERNINA Embroidery software and exported as .EXP file. Besides the actual embroidery file, a .BMP file and an .INF file are generated additionally. The .BMP file allows a preview of the embroidery motif and the .INF file provides the information on the thread colors. **Please note:** If the .INF file is missing, the embroidery motif cannot be displayed in the real color but only in standard colors. In this case, the colors can be entered manually in the color overview of the motif on the machine.

Additionally, following embroidery formats can be read by the machine: .PES, .PEC, .XXX, .PCS, .JEF and .DST. BERNINA International AG doesn't warrant that embroidery motifs which have not been created or converted by the BERNINA Embroidery software can be correctly read and embroidered.

Simple motifs with a low stitch count are suitable for embroidery on fine material. Densely embroidered motifs, e. g. embroidered motifs with multiple color and embroidery direction changes, are suitable for medium and heavy-weight material.

1.3 Setup Program

Programming the securing stitches

Embroidery motifs are programmed either with or without securing stitches. The machine recognizes when no securing stitches are programmed and adds some. If securing stitches are not wanted, they can be deactivated.



- > Touch the icon «Setup Program».



- > Touch the icon «Embroidery settings».



- > Touch the icon «Securing stitches on/off».



- > Press the switch in the upper right section to deactivate the securing stitches at the start.
 - If the embroidery motif has programmed securing stitches, they will be embroidered.
 - If the embroidery motif doesn't have any programmed securing stitches, none are embroidered.
- > Press the switch again to activate the securing stitches at the start.
 - If the embroidery motif has programmed securing stitches, they will be embroidered.
 - If the embroidery motif doesn't have any programmed securing stitches, the securing stitches are added and will be embroidered.

- > Press the switch in the lower right section to deactivate the securing stitches at the end.
 - If the embroidery motif has programmed securing stitches, they will be embroidered.
 - If the embroidery motif doesn't have any programmed securing stitches, none are embroidered.
- > Press the switch again to activate the securing stitches at the end.
 - If the embroidery motif has programmed securing stitches, they will be embroidered.
 - If the embroidery motif doesn't have any programmed securing stitches, the securing stitches are added and will be embroidered.

Adjusting the thread cut

The settings for the thread cut can be customized. Deactivate the thread cut after a color change (1) or adjust the length of the connecting stitch (3). The machine does the cutting of the connecting threads at the determined length for you. Please adjust the length first from where the connecting stitches are to be cut. Then select the embroidery motif.

- > Touch the icon «Setup Program».



- > Touch the icon «Embroidery settings».



- > Touch the icon «Thread cut settings».



- > Touch the switch in the upper portion of the display (1) to deactivate the automatic thread cut after the thread has been changed.
- > Touch the switch in the upper portion of the display (1) again to activate the automatic thread cut after the thread has been changed.
- > Touch the switch in the middle section of the display (2) so that the machine will stop after about 7 stitches and the remaining thread can be cut manually.
- > Touch the switch in the middle section of the display (2) again and the machine won't stop for a manual thread cut.
- > Touch the icons «->» or «+» (3) to adjust the length from where the connecting stitches are cut.



- > Touch the yellow-framed icon to reset the alteration to default setting.

Centering or opening embroidery motifs in the original position

When the embroidery motif is opened on the machine, it is always centered to the embroidery hoop. If you want the embroidery motif to be opened in its original position (defined by the BERNINA embroidery software), the function «Center the embroidery motif» must be activated.

- > Touch the icon «Setup Program».



- > Touch the icon «Embroidery settings».



- > Touch the icon «Center the embroidery motif».



- > Press the switch in the right section.
 - A previously moved embroidery motif which has been saved in the new position is opened in the saved position after selecting.
- > Press the switch in the right section again.
 - The embroidery motif is centered to the embroidery hoop.

Calibrating the embroidery hoop

The calibration of the embroidery hoop is the coordination of the needle to the center of the embroidery hoop.

Prerequisite:

- The embroidery module is connected and the embroidery hoop with the appropriate embroidery template is attached.

- > Touch the icon «Setup Program».



- > Touch the icon «Embroidery settings».

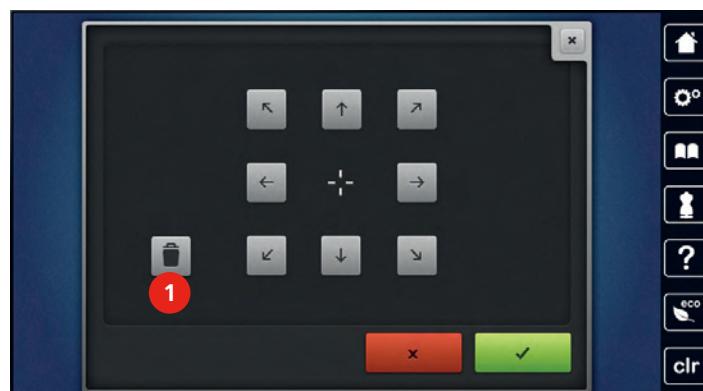


- > Touch the icon «Calibrate the hoop».

- The machine recognizes the embroidery hoop automatically.

- > Touch the icon «Delete» (1) to delete the present calibration.

- > Center the needle via the arrow icons on the display.





- > Touch the icon «Confirm» to save the calibration.

Function thread away on/off

To bring up the thread end after cutting and to pull it out of the fabric, the function must be activated. As for embroidery motifs with long stitches it is recommended to deactivate the function thread away.



- > Touch the icon «Setup Program».



- > Touch the icon «Thread away».



- > Touch the switch using the touchscreen pen/finger to activate the function thread away.
- > Touch the switch using the touchscreen pen/finger again to deactivate the function thread away.

Changing the measuring unit

The measuring unit in the embroidery mode can be changed from mm to inch. The standard setting is in mm.



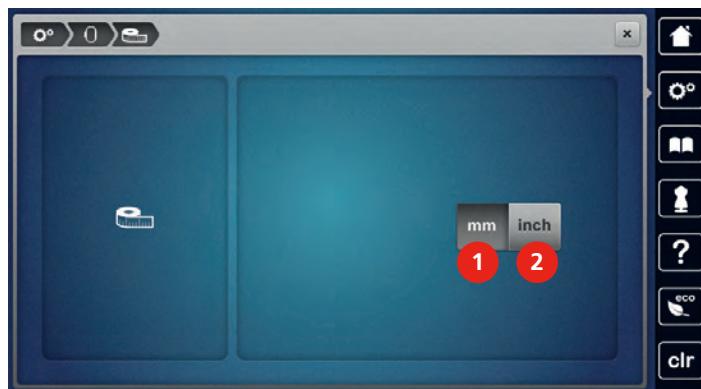
- > Touch the icon «Setup Program».



- > Touch the icon «Embroidery settings».



- > Touch the icon «Change measuring unit».
- > Touch the icon «Inch» (2) to change the measuring unit in the embroidery mode to inch.
- > Touch the icon «mm» (1) to change the measuring unit in the embroidery mode to mm.



Selecting personal settings



- > Touch the icon «Setup Program».



- > Touch the icon «Personal settings».
- > Select the desired color of the display and the background.

- > Touch the text box above the color settings.



- > Enter the welcome text.
- > Touch the icon «ABC» (standard setting) to use upper-case letters.
- > Touch the icon «abc» to use lower-case letters.
- > Touch the icon «123» to use figures and mathematical symbols.
- > Touch the icon «@&!» to use special characters.
- > Touch the text box above the keyboard to delete the entered text completely.
- > Touch the icon «DEL» to delete individual syllables of the entered text.
- > Touch the icon «Confirm».



1.4 System settings

Calling up the Embroidery Consultant

The Embroidery Consultant provides information about decision support concerning embroidery projects. After entering the fabric and the desired embroidery project, suggestions for the suitable needle and the suitable presser foot are displayed.



- > Touch the icon «Embroidery Consultant».
- > Select the embroidery project.
- > Select the fabric which is to be embroidered.
- > Touch the icon «Confirm».
 - If the embroidery motif has already been selected, a warning appears that it will be overwritten.

1.5 Creative embroidering

Positioning of grid points

This function allows the exact positioning of the embroidery motif on the fabric in an easy way. The positioning points can be placed in the grid.

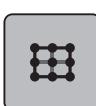
Prerequisite:

- Any two points of the embroidery motif are marked with chalk or a water-soluble pen on the fabric. The place or the location where the embroidery motif is to be positioned is clearly visible.
- > Select an embroidery motif.
- > Touch the icon «i»-Dialog.





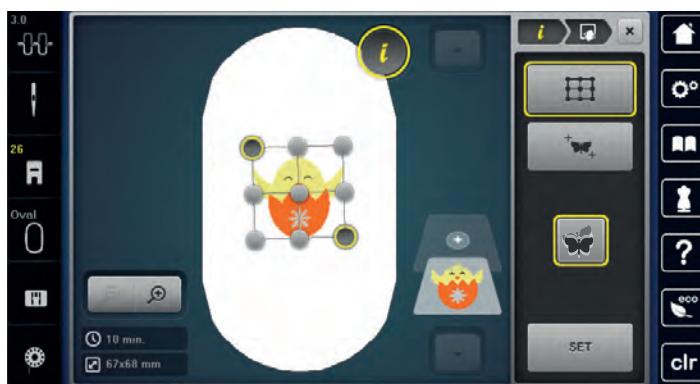
- > Touch the icon «Pinpoint placement».



- > Touch the icon «Grid».
 - The embroidery motif is given a grid with nine different location/positioning points.
 - > Select the desired positioning point to which the embroidery motif is to be adjusted.
 - The point changes its color.
 - > Turn the «Upper Multifunctional knob» or the «Lower Multifunctional knob» to the left or to the right to position the needle above the respective mark on the fabric.
 - > Touch the icon «SET» to confirm the altered position.
 - The point changes its color and is defined.
 - > Select the second positioning point of the embroidery motif.
 - > Turn the «Upper Multifunctional knob» or the «Lower Multifunctional knob» to the left or to the right to position the needle above the respective mark on the fabric.



- > Touch the icon «SET» to confirm the altered position.
 - The point changes its color and is defined.
 - > Select the second positioning point of the embroidery motif.
 - > Turn the «Upper Multifunctional knob» or the «Lower Multifunctional knob» to the left or to the right to position the needle above the respective mark on the fabric.



- > Touch the icon «SET» to confirm the altered position.
 - The point changes its color and is defined. The embroidery motif is adjusted accordingly.
 - > Touch the icon «Reset Pinpoint placement» to reset the alterations to default setting.



Free point positioning

This function allows exact positioning of embroidery motifs on the fabric in an easy way. The points can be defined as you like within the embroidery motif.

Prerequisite:

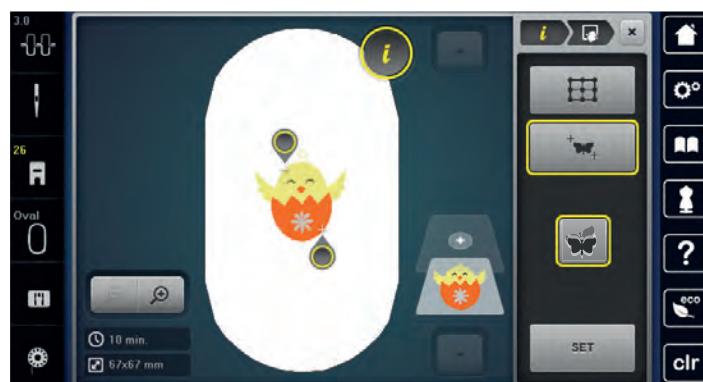
- Any two points of the embroidery motif are marked with chalk or a water-soluble pen on the fabric. The place or the location where the embroidery motif is to be positioned is clearly visible.
 - > Select an embroidery motif.
 - > Touch the icon «»-Dialog.



- > Touch the icon «Pinpoint placement».

 - > Touch the icon «Place points as desired».
 - > Define a desired point within the embroidery motif.
 - The positioning point is displayed.

- > Turn the «Upper Multifunctional knob» or the «Lower Multifunctional knob» to the left or to the right to position the needle above the respective mark on the fabric.
- > Touch the icon «SET» to confirm the altered position.
 - The point changes its color and is defined.
- > Select the second positioning point of the embroidery motif.
- > Turn the «Upper Multifunctional knob» or the «Lower Multifunctional knob» to the left or to the right to position the needle above the respective mark on the fabric.



- > Touch the icon «SET» again to confirm the altered position.
 - The point changes its color and is defined. The embroidery motif is adjusted accordingly.
- > Touch the icon «Reset Pinpoint placement» to reset the alterations to default setting.



Changing the sequence within an embroidery motif combination

The sequence of the embroidery motifs within the embroidery motif combination can be changed.

Prerequisite:

- The embroidery motif combination has been created or the motif has been ungrouped.
- > Select the desired embroidery motif which is to be repositioned.
- > Touch the icon «i»-Dialog.



- > Touch the icon «New Allocation».
- > Touch the icon «Scroll up» to position the selected embroidery motif further up within the sequence.
- > Touch the icon «Scroll down» to position the selected embroidery motif further down within the sequence.

Undoing entries

All entries can be undone and redone again step by step.

Prerequisite:

- An embroidery motif has been selected and alterations have been done.
- > Touch the icon «Undo» to cancel the last entry.
- > Touch the icon «Undo» several times to cancel the last entries step by step.





- > Touch the icon «Redo» to restore the last entry.
- > Touch the icon «Redo» several times to restore the last entries step by step.

Grouping embroidery motifs

Embroidery motifs can be added to a combination or removed. The grouped embroidery motifs can be edited like one single embroidery motif.

The sequence of the embroidery motifs in the combination can be changed (see page 9).

As soon as an embroidery motif has been ungrouped, in other words, it has been decomposed in different elements/colors, the colors won't be recomposed. With alphabets, the jumpstitch length needs to be adjusted to 0 in the Setup so that ungrouping will work with all the letters.

- > Create an embroidery motif combination.
- > Select an embroidery motif (1) within the embroidery motif combination.



- > Touch the icon «i»-Dialog.



- > Touch the icon «Group».



- > Touch the icon «Group».
 - The embroidery motif above the selected embroidery motif is added to the embroidery motif combination.

- > Select an embroidery motif combination.

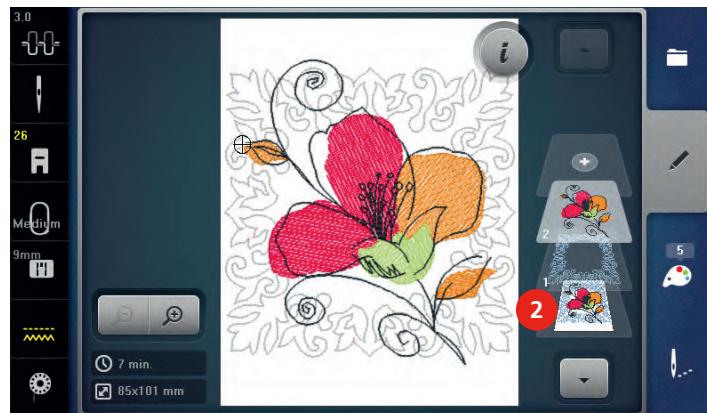
- > Touch the icon «Ungroup».
 - The combination is ungrouped.

or

- > Create an embroidery motif combination.



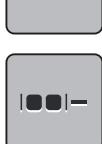
- > Select all embroidery motifs (2).



- > Touch the icon «i»-Dialog.



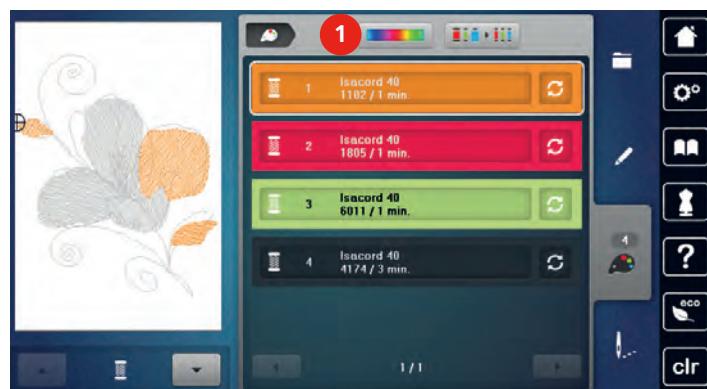
- > Touch the icon «Group».
 - All embroidery motifs are added to the embroidery motif combination.
- > Select an embroidery motif combination.
- > Touch the icon «Ungroup».
 - The combination is ungrouped.



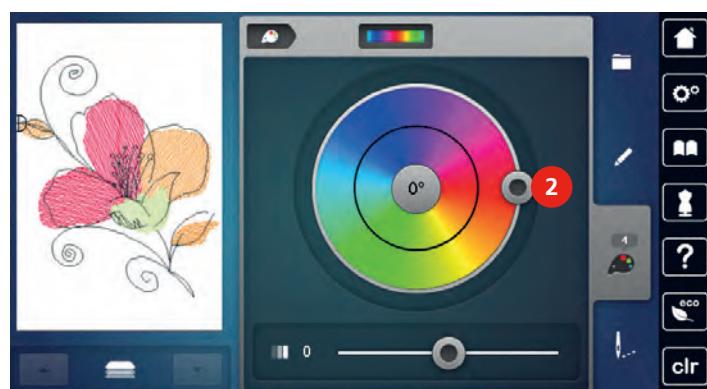
Altering the colors via the color wheel



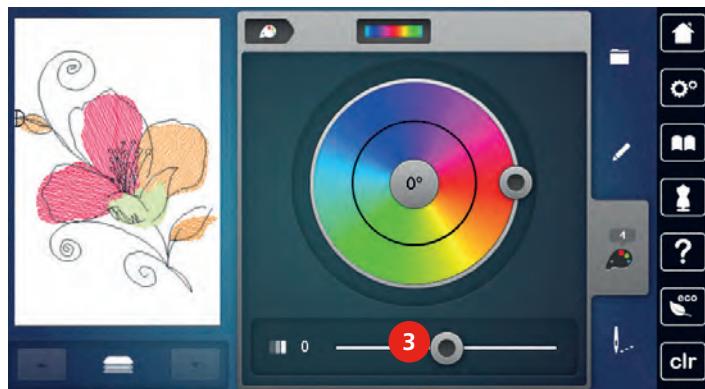
- > Touch the icon «Color information».
- > Touch the icon «Color wheel» (1).



- > Turn the round knob (2) with the touchscreen pen/finger clockwise or counter-clockwise or turn the «Upper Multifunction knob» to alter the colors of the embroidery motif.



- > Move the slide (3) with the touchscreen pen/finger to alter the brightness of the colors.



- > Touch the icon «Edit».
– The embroidery motif appears in the new colors.

1.6 Embroidery hoop

Overview embroidery hoop selection



1 Buddyz (optional accessory)

2 Midi Hoop (part of the product)

2 Embroidery

2.1 Overview embroidery alphabets

Embroidery motif	Name
ABC	Bamboo
<i>ABC</i>	Lisa
<i>ABC</i>	Zurich
ABC	Flare Serif
ABC	Deco block
ABC	Condensed Sans
<i>ABC</i>	Curly
ABC	Happy Times
ABC	Rounded Sans



3 Overview Embroidery motifs

3.1 Editing embroidery motifs

Let your inspiration run free. A vast selection of embroidery motifs is at your disposal.

If you see one the following pictograms below a number of the embroidery motif, you can find additional information at

www.bernina.com/7series.

	Detached point		Punchwork Design (sample)
	Hole embroidery		Cord embroidery
	Fringe embroidery		Projects in the hoop
	Appliqué		Puffy fonts
	CutWork Design (motif)		Quilting
	PaintWork Design (motif)		Trapunto
	CrystalWork Design (motif)		

3.2 Projects

No.	Embroidery motif Colors	Width x Height > mm > inch	No.	Embroidery motif Colors	Width x Height > mm > inch
BE700701 	 	208 x 201 8 x 7	12604-02 	 	45 x 152 1 x 6
21519-03 	 	108 x 161 4 x 6	19999-032 	 	90 x 143 3 x 5

3.3 Charming Monograms

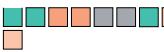
No.	Embroidery motif Colors	Width x Height > mm > inch	No.	Embroidery motif Colors	Width x Height > mm > inch
12587-01	 <input type="checkbox"/>	58 x 89 2 x 3	12587-02	 <input type="checkbox"/>	52 x 89 2 x 3
12587-03	 <input type="checkbox"/>	45 x 89 1 x 3	12587-04	 <input type="checkbox"/>	56 x 90 2 x 3
12587-05	 <input type="checkbox"/>	50 x 90 1 x 3	12587-06	 <input type="checkbox"/>	57 x 89 2 x 3
12587-07	 <input type="checkbox"/>	39 x 90 1 x 3	12587-08	 <input type="checkbox"/>	61 x 90 2 x 3
12587-09	 <input type="checkbox"/>	49 x 89 1 x 3	12587-10	 <input type="checkbox"/>	56 x 89 2 x 3
12587-11	 <input type="checkbox"/>	61 x 90 2 x 3	12587-12	 <input type="checkbox"/>	63 x 90 2 x 3

Overview Embroidery motifs

No.	Embroidery motif Colors	Width x Height > mm > inch	No.	Embroidery motif Colors	Width x Height > mm > inch
12587-13	 <input type="checkbox"/>	64 x 92 2 x 3	12587-14	 <input type="checkbox"/>	63 x 90 2 x 3
12587-15	 <input type="checkbox"/>	44 x 90 1 x 3	12587-16	 <input type="checkbox"/>	63 x 89 2 x 3
12587-17	 <input type="checkbox"/>	54 x 89 2 x 3	12587-18	 <input type="checkbox"/>	64 x 90 2 x 3
12587-19	 <input type="checkbox"/>	56 x 90 2 x 3	12587-20	 <input type="checkbox"/>	56 x 89 2 x 3
12587-21	 <input type="checkbox"/>	62 x 91 2 x 3	12587-22	 <input type="checkbox"/>	64 x 91 2 x 3
12587-23	 <input type="checkbox"/>	64 x 64 2 x 2	12587-24	 <input type="checkbox"/>	62 x 90 2 x 3

No.	Embroidery motif Colors	Width x Height > mm > inch	No.	Embroidery motif Colors	Width x Height > mm > inch
12587-25	 <input type="checkbox"/>	51 x 91 2 x 3	12587-26	 <input type="checkbox"/>	67 x 89 2 x 3
12587-53	 <input type="checkbox"/>	22 x 22 1 x 1	12587-54	 <input type="checkbox"/>	50 x 106 1 x 4
12587-55	 <input type="checkbox"/>	70 x 144 2 x 5	12587-56	 <input type="checkbox"/>	49 x 100 1 x 3
12587-57	 <input type="checkbox"/>	57 x 20 2 x 1	12587-58	 <input type="checkbox"/>	52 x 116 2 x 4
12587-59	 <input type="checkbox"/>	33 x 94 1 x 3	12587-60	 <input type="checkbox"/>	126 x 126 4 x 4
12587-61	 <input type="checkbox"/>	35 x 28 1 x 1	12587-62	 <input type="checkbox"/>	35 x 33 1 x 1

3.4 Homedeco

No.	Embroidery motif Colors	Width x Height > mm > inch	No.	Embroidery motif Colors	Width x Height > mm > inch
12535-03	 	160 x 120 6 x 4	82011-30	 	107 x 130 4 x 5
82011-28	 	133 x 99 5 x 3	82006-02	 	128 x 205 5 x 8
WP428	 	132 x 119 5 x 4	12576-05	 	189 x 229 7 x 9
12473-04	 	93 x 184 3 x 7	12620-12	 	94 x 109 3 x 4
12611-08	 	80 x 119 3 x 4	12611-18	 	130 x 157 5 x 6

No.	Embroidery motif Colors	Width x Height > mm > inch	No.	Embroidery motif Colors	Width x Height > mm > inch
BE790801	 	137 x 137 5 x 5	BE790802	 	36 x 116 1 x 4
BE790803	 	22 x 215 1 x 8	WP423	 	90 x 157 3 x 6
21027-01	 	123 x 122 4 x 4	21027-14	 	120 x 120 4 x 4
21027-16	 	57 x 151 2 x 5	21027-17	 	57 x 151 2 x 5



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