creative vision
Owner’s manual
This household sewing machine is designed to comply with IEC/EN 60335-2-28 and UL1594

IMPORTANT SAFETY INSTRUCTIONS
When using an electrical appliance, basic safety precautions should always be followed, including the following:
Read all instructions before using this household sewing machine.

DANGER - To reduce the risk of electric shock:
- A sewing machine should never be left unattended when plugged in. Always unplug this sewing machine from the electric outlet immediately after using and before cleaning.

WARNING - To reduce the risk of burns, fire, electric shock, or injury to person:
- This sewing machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the sewing machine by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the sewing machine.
- Use this sewing machine only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
- Never operate this sewing machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the sewing machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
- Never operate the sewing machine with any air openings blocked. Keep ventilation openings of the sewing machine and foot controller free from the accumulation of lint, dust, and loose cloth.
- Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
- Always use the proper stitch plate. The wrong plate can cause the needle to break.
- Do not use bent needles.
- Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
- Wear safety glasses.
- Switch the sewing machine off (“0”) when making any adjustment in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, etc.
- Always unplug sewing machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.
- Never drop or insert any object into any opening.
- Do not use outdoors.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administrated.
- To disconnect, turn all controls to the off (“0”) position, then remove plug from outlet.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Hold plug when rewinding into cord reel. Do not allow plug to whip when rewinding.
- This sewing machine is provided with double insulation. Use only identical replacement parts. See instructions for Servicing of Double-Insulated Appliances.

SAVE THESE INSTRUCTIONS

SERVICING OF DOUBLE INSULATED PRODUCTS
In a double-insulated product, two systems of insulation are provided instead of grounding. No ground means is provided on a double-insulated product, nor should a means for grounding be added to the product. Servicing of a double-insulated product requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to those parts in the product. A double-insulated product is marked with the words ‘DOUBLE INSULATION’ or ‘DOUBLE INSULATED’.
Congratulations!

Congratulations on purchasing your new PFAFF® creative vision™. As a sewing enthusiast, you have acquired one of the most advanced and comprehensive sewing and embroidery machines in the world; it will enable you to transform all your creative ideas into reality using the most highly tuned technology and features.

Before you start, please spend some time reading this owner’s manual. You will soon discover how to maximize the use of your machine. Our authorized PFAFF® dealers will of course also be pleased to advise you at any time.

Your PFAFF® creative vision™ will definitely enable you to experience a totally new dimension of sewing and embroidery.
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Some fabrics have a lot of excess dye which can cause discoloration on other fabric but also on your sewing machine. This discoloring may be very difficult or impossible to remove.

Fleece and denim fabric, especially red and blue, often contain a lot of excess dye.

If you suspect that your fabric/ready-to-wear garment contains a lot of excess dye, always pre-wash it before sewing to avoid the discoloring.
Introduction
Machine overview

Front side
1. Lid with stitch categories
2. Threading slots
3. Thread cutter
4. Sensormatic buttonhole foot socket
5. Custom LED-lights
6. Built-in needle threader
7. Needle bar
8. Needle thread guide
9. Bobbin cover
10. Stitch plate
11. Free arm
12. Presser foot
13. Presser foot bar and presser foot holder
14. Needle screw
15. Reverse
16. Reverse indicator
17. Action indicator
18. Presser foot up and extra lift toggle
19. Presser foot down and pivot toggle
20. Start/stop
21. Thread snips
22. Immediate tie-off
23. Stitch restart
24. Needle up/down
25. Speaker
26. Button ruler
27. Handwheel
28. PFAFF® HD screen
29. Built-in USB ports
30. Stylus holder
31. Main switch, connectors for power cord and foot control
32. Connection for knee-lift
**Rear side**
33. Handle
34. IDT
35. Embroidery unit connection socket

**Top parts**
36. Pre-tension device for threading and bobbin winding
37. Bobbin winder thread guide
38. Thread guide
39. Bobbin thread guides
40. Bobbin winder lever
41. Bobbin spindle
42. Bobbin thread cutter
43. Auxiliary spool pin
44. Spool caps
45. Spool pin
46. Thread tension
47. Take-up lever

**Accessory tray**
The accessory trays feature special compartments for presser feet and bobbins, plus space for needles and other accessories. Store the accessories in the tray so they are easily accessible.
48. Space for accessories
49. Removable tray for presser feet
50. Removable bobbin holder
**Parts of the embroidery unit**  
(type BE15)  
51. Embroidery unit release button  
52. Level adjusting feet  
53. Embroidery accessory tray  
54. Embroidery unit socket  
55. Embroidery hoop connection assembly  
56. Embroidery arm

**Included accessories**

**Accessories**  
57. Stylus  
58. Thread net  
59. Edge guide  
60. Felt pad  
61. USB Embroidery stick  
62. Screwdriver  
63. Seam ripper  
64. Brush  
65. Spool cap, large (2)  
66. Spool cap, medium  
67. Spool cap, small  
68. Multi-purpose tool  
69. Bobbins  
70. Hoop clips  
71. Knee-lift

**Included hoops**  
72. creative™ 120 Square Hoop (120x120)  
73. creative™ Master Hoop (240x150)  
74. creative™ Deluxe Hoop (360x200)

**Included accessories not in picture**  
- Foot control  
- Power cord  
- USB cord (P/N:412 62 59-04)  
- Needles  
- 5D™ Embroidery Machine Communication CD  
- creative vision™ Embroidery collection
## Presser feet

<table>
<thead>
<tr>
<th>Presser foot</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0A</td>
<td>Standard presser foot with IDT (attached on the machine upon delivery). This foot is used mainly for straight stitching and zigzag stitching with a stitch length longer than 1.0mm.</td>
</tr>
<tr>
<td>1A</td>
<td>Fancy stitch foot with IDT. This foot is used for decorative stitches. The groove on the underside of the foot is designed to flow smoothly over the stitches.</td>
</tr>
<tr>
<td>2A</td>
<td>Fancy stitch foot. When sewing decorative stitches or short zigzag stitches and other utility stitches with less than 1.0mm stitch length, use this foot. The groove on the underside of the foot is designed to flow smoothly over the stitches.</td>
</tr>
<tr>
<td>3</td>
<td>Blindhem foot with IDT. This foot is used for blindhem stitches. The toe on the foot guides the fabric. The red guide on the foot is designed to ride along the fold of the hem edge.</td>
</tr>
<tr>
<td>4</td>
<td>Zipper foot with IDT. This foot can be snapped on either the right or the left of the needle, making it easy to sew close to both sides of the zipper teeth. Move needle position to right or left to sew closer to zipper teeth.</td>
</tr>
<tr>
<td>5A</td>
<td>Sensormatic buttonhole foot. When connected to the machine, the buttonhole is sewn in a suitable length to the button size that has been entered into the machine.</td>
</tr>
<tr>
<td>5M</td>
<td>Manual buttonhole foot. This foot is used for sewing manual buttonholes. Use the markings on the foot to position the garment edge. The finger on the back of the foot holds cording for corded buttonhole.</td>
</tr>
<tr>
<td>6A</td>
<td>Embroidery/Sensormatic free-motion foot. This foot is used for embroidery and free-motion sewing. This foot can also be used for darning.</td>
</tr>
<tr>
<td>7</td>
<td>Rolled hem foot with IDT, 3mm. This foot is used to sew narrow hems in light to medium weight fabric.</td>
</tr>
<tr>
<td>8</td>
<td>Maxi-stitch foot. This foot is used for side-motion stitches.</td>
</tr>
</tbody>
</table>

**Important:** Make sure that the IDT is disengaged when using presser foot 2A, 5A, 5M, 6A, and 8.
## Stitch overview

### Utility stitches

<table>
<thead>
<tr>
<th>Stitch</th>
<th>Stitch number</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1.1</td>
<td>Straight stitch</td>
<td>For seaming and topstitching. Select from 37 different needle positions. Note: This stitch makes a stronger tie-off than stitch 2.1.1.</td>
<td></td>
</tr>
<tr>
<td>1.1.2</td>
<td>Stretch triple straight stitch</td>
<td>Reinforced seam. Topstitching.</td>
<td></td>
</tr>
<tr>
<td>1.1.3</td>
<td>Straight stitch reverse</td>
<td>Sew continuous reverse with strong tie-off.</td>
<td></td>
</tr>
<tr>
<td>1.1.4</td>
<td>Basting stitch</td>
<td>Single stitch used for basting. Touch foot control to sew one stitch. Move fabric manually to desired position and touch foot control again to sew another stitch.</td>
<td></td>
</tr>
<tr>
<td>1.1.5</td>
<td>Zigzag stitch</td>
<td>Reinforce seams, clean finish, stretch sewing, lace insertion.</td>
<td></td>
</tr>
<tr>
<td>1.1.6</td>
<td>Zigzag stitch, right or left needle position</td>
<td>Reinforce seams, clean finish, stretch sewing.</td>
<td></td>
</tr>
<tr>
<td>1.1.7</td>
<td>Z-zigzag stitch</td>
<td>Applique, couching, eyelets.</td>
<td></td>
</tr>
<tr>
<td>1.1.8</td>
<td>Stretch triple zigzag stitch</td>
<td>Elastic stitch for decorative hems or topstitching.</td>
<td></td>
</tr>
<tr>
<td>1.1.9</td>
<td>Three-step zigzag stitch</td>
<td>Sewing elastic, darning, patching.</td>
<td></td>
</tr>
<tr>
<td>1.1.10</td>
<td>Elastic stitch</td>
<td>Sewing elastic, darning, patching.</td>
<td></td>
</tr>
<tr>
<td>1.1.11</td>
<td>Triple stretch stitch</td>
<td>Sewing elastic, darning, patching and decorative sewing.</td>
<td></td>
</tr>
<tr>
<td>1.1.12</td>
<td>Honeycomb stitch</td>
<td>Decorative stitch for stretch fabrics and hems. Also used with elastic thread in the bobbin.</td>
<td></td>
</tr>
<tr>
<td>1.1.13</td>
<td>Bridging stitch</td>
<td>Joining fabrics and quilt batting, decorative stitch for quilting, hemstitching.</td>
<td></td>
</tr>
<tr>
<td>1.1.14</td>
<td>Foundation elastic stitch</td>
<td>Joining stitch for undergarments, terry cloth, leather, bulky fabrics where overlapping the seams.</td>
<td></td>
</tr>
<tr>
<td>1.1.15</td>
<td>Crosshem stitch</td>
<td>Elastic decorative hem for stretch fabrics.</td>
<td></td>
</tr>
<tr>
<td>1.1.16</td>
<td>Blindhem stitch</td>
<td>Sewing blindhems on woven fabrics.</td>
<td></td>
</tr>
<tr>
<td>1.1.17</td>
<td>Elastic blindhem stitch</td>
<td>Sewing blindhems on stretch fabrics.</td>
<td></td>
</tr>
<tr>
<td>1.1.18</td>
<td>Stretch tricot stitch</td>
<td>Sewing seams on stretch fabrics.</td>
<td></td>
</tr>
<tr>
<td>1.2.1</td>
<td>Closed overlock</td>
<td>Seam and overcast stretch fabrics in one step.</td>
<td></td>
</tr>
<tr>
<td>1.2.2</td>
<td>Closed overlock</td>
<td>Seam and overcast in one step.</td>
<td></td>
</tr>
<tr>
<td>-------</td>
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</tr>
<tr>
<td>1.2.3</td>
<td>Closed overlock</td>
<td>Seam and overcast in one step with reinforced edge.</td>
<td></td>
</tr>
<tr>
<td>1.2.4</td>
<td>Elastic overcast</td>
<td>Seam and overcast stretch fabrics in one step.</td>
<td></td>
</tr>
<tr>
<td>1.2.5</td>
<td>Standard overcast</td>
<td>Seam and overcast stretch fabrics in one step with reinforced edge.</td>
<td></td>
</tr>
<tr>
<td>1.2.6</td>
<td>Overlock</td>
<td>Seam and overcast stretch fabrics in one step.</td>
<td></td>
</tr>
<tr>
<td>1.2.7</td>
<td>Light knit fabric patching</td>
<td>Seam and overcast stretch fabrics in one step, patch, hem.</td>
<td></td>
</tr>
<tr>
<td>1.2.8</td>
<td>Closed overlock</td>
<td>Seam and overcast in one step, patch, hem.</td>
<td></td>
</tr>
<tr>
<td>1.2.9</td>
<td>Stretch knit overlock</td>
<td>Seam and overcast stretch fabrics in one step.</td>
<td></td>
</tr>
<tr>
<td>1.2.10</td>
<td>Reinforced overlock</td>
<td>Seam and overcast stretch fabrics in one step and reinforce.</td>
<td></td>
</tr>
<tr>
<td>1.2.11</td>
<td>Finished edge overlock</td>
<td>Seam and overcast stretch fabrics in one step with reinforced edge.</td>
<td></td>
</tr>
<tr>
<td>1.2.12</td>
<td>Overlock</td>
<td>Seam and overcast stretch fabrics in one step.</td>
<td></td>
</tr>
<tr>
<td>1.2.13</td>
<td>Mock cover hem</td>
<td>Create the look of a serger cover hem for stretch fabrics.</td>
<td></td>
</tr>
<tr>
<td>1.2.14</td>
<td>Mock cover hem</td>
<td>Create the look of a serger cover hem for stretch fabrics.</td>
<td></td>
</tr>
<tr>
<td>1.2.15</td>
<td>Open overlock blindhem</td>
<td>Create decorative overlock blindhem for woven fabrics.</td>
<td></td>
</tr>
<tr>
<td>1.2.16</td>
<td>Closed overlock blindhem</td>
<td>Create decorative overlock blindhem for stretch fabrics.</td>
<td></td>
</tr>
<tr>
<td>1.3.1</td>
<td>Linen buttonhole</td>
<td>Buttonhole for blouses, shirts and linen.</td>
<td></td>
</tr>
<tr>
<td>1.3.2</td>
<td>Standard buttonhole</td>
<td>Basic buttonhole for blouses, shirts and jackets. Also for pillowcases.</td>
<td></td>
</tr>
<tr>
<td>1.3.3</td>
<td>Rounded buttonhole with pointed tack</td>
<td>Buttonhole for garments.</td>
<td></td>
</tr>
<tr>
<td>1.3.4</td>
<td>Rounded buttonhole with lengthwise tack</td>
<td>Buttonhole for garments.</td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>1.3.5</td>
<td>Rounded buttonhole with crosswise tack</td>
<td>Buttonhole for garments.</td>
<td></td>
</tr>
<tr>
<td>1.3.6</td>
<td>Eyelet buttonhole with pointed tack</td>
<td>Tailors buttonhole or decorative buttonhole.</td>
<td></td>
</tr>
<tr>
<td>1.3.7</td>
<td>Eyelet buttonhole with lengthwise tack</td>
<td>Tailors buttonhole for jackets and trousers.</td>
<td></td>
</tr>
<tr>
<td>1.3.8</td>
<td>Rounded buttonhole</td>
<td>Buttonhole for light garments or jackets.</td>
<td></td>
</tr>
<tr>
<td>1.3.9</td>
<td>Decorative buttonhole with triangle tack</td>
<td>Decorative buttonhole.</td>
<td></td>
</tr>
<tr>
<td>1.3.10</td>
<td>Stretch buttonhole</td>
<td>Buttonhole for stretch fabrics.</td>
<td></td>
</tr>
<tr>
<td>1.3.11</td>
<td>Cross stitch buttonhole</td>
<td>Decorative buttonhole.</td>
<td></td>
</tr>
<tr>
<td>1.3.12</td>
<td>Decorative buttonhole</td>
<td>Decorative buttonhole.</td>
<td></td>
</tr>
<tr>
<td>1.3.13</td>
<td>Professional eyelet buttonhole</td>
<td>Professional tailors buttonhole for jackets and trousers.</td>
<td></td>
</tr>
<tr>
<td>1.3.14</td>
<td>Decorative eyelet buttonhole</td>
<td>Decorative buttonhole for jackets.</td>
<td></td>
</tr>
<tr>
<td>1.3.15</td>
<td>Decorative eyelet buttonhole</td>
<td>Decorative buttonhole for jackets.</td>
<td></td>
</tr>
<tr>
<td>1.3.16</td>
<td>Heirloom eyelet buttonhole</td>
<td>Decorative heirloom buttonhole.</td>
<td></td>
</tr>
<tr>
<td>1.3.17</td>
<td>Heirloom round buttonhole</td>
<td>Decorative heirloom buttonhole.</td>
<td></td>
</tr>
<tr>
<td>1.3.18</td>
<td>Heirloom round buttonhole with pointed tack</td>
<td>Decorative heirloom buttonhole.</td>
<td></td>
</tr>
<tr>
<td>1.3.19</td>
<td>Button sewing</td>
<td>Sew on buttons or tacking.</td>
<td></td>
</tr>
<tr>
<td>1.4.1</td>
<td>Eyelet</td>
<td>Heirloom sewing decorative trim.</td>
<td></td>
</tr>
<tr>
<td>1.4.2</td>
<td>Decorative eyelet</td>
<td>Heirloom sewing decorative trim.</td>
<td></td>
</tr>
<tr>
<td>1.4.3</td>
<td>Decorative eyelet</td>
<td>Heirloom sewing decorative trim.</td>
<td></td>
</tr>
<tr>
<td>1.4.4</td>
<td>Decorative eyelet</td>
<td>Heirloom sewing decorative trim.</td>
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</tr>
<tr>
<td>1.4.5</td>
<td>Decorative eyelet</td>
<td>Heirloom sewing decorative trim.</td>
<td></td>
</tr>
<tr>
<td>1.4.6</td>
<td>Decorative eyelet</td>
<td>Heirloom sewing decorative trim.</td>
<td></td>
</tr>
<tr>
<td>1.5.1</td>
<td>Programmable darning stitch</td>
<td>Darning holes or damaged fabric.</td>
<td></td>
</tr>
<tr>
<td>1.5.2</td>
<td>Programmable reinforced darning stitch</td>
<td>Reinforced darning holes or damaged fabric.</td>
<td></td>
</tr>
<tr>
<td>1.5.3</td>
<td>Bartack</td>
<td>Automatically reinforce seams and pockets.</td>
<td></td>
</tr>
<tr>
<td>1.5.4</td>
<td>Denim bartack</td>
<td>Automatically reinforce seams and pockets decoratively.</td>
<td></td>
</tr>
<tr>
<td>1.5.5</td>
<td>Decorative bartack</td>
<td>Automatically reinforce seams and pockets decoratively.</td>
<td></td>
</tr>
<tr>
<td>1.5.6</td>
<td>Cross bartack</td>
<td>Automatically reinforce seams and pockets.</td>
<td></td>
</tr>
<tr>
<td>1.5.7</td>
<td>Decorative tack</td>
<td>Automatically reinforce seams and pockets.</td>
<td></td>
</tr>
<tr>
<td>1.5.8</td>
<td>Decorative tack</td>
<td>Automatically decorative topper for seams and pockets.</td>
<td></td>
</tr>
<tr>
<td>1.5.9</td>
<td>Decorative tack</td>
<td>Automatically reinforce seams and pockets.</td>
<td></td>
</tr>
</tbody>
</table>
## Decorative Stitches

### 2.1 Quilt stitches - Handlook stitches

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

### 2.2 Quilt stitches - Antique quilt stitches

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
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<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

### 2.3 Quilt stitches - Stippling stitches

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

### 2.4 Quilt stitches - Crazy patch stitches

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

### 3.1 Needle art stitches - Cross stitches

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
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<td>5</td>
<td>6</td>
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<tr>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

### 3.2 Needle art stitches - Hemstitches

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
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<tr>
<td>5</td>
<td>6</td>
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</tbody>
</table>

### 3.3 Needle art stitches - Antique hand embroidery stitches

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
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<tr>
<td>5</td>
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<tr>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>
3.3 Needle art stitches - Antique hand embroidery stitches

3.4 Needle art stitches - Smocking stitches

4.1 Decorative stitches - Scallop edges

4.2 Decorative stitches - Satin stitches

4.3 Decorative stitches - Leaves and flowers

4.4 Decorative stitches - Art stitches
5.2 Maxi stitches - Leaves and flowers

5.3 Maxi stitches - Art stitches

5.4 Maxi stitches - Fun stitches

5.5 Maxi stitches - Stippling stitches

5.6 Maxi 1 (monogram)

5.7 Maxi 2 (monogram)

6.1 Sewing techniques - Candlewicking

6.2 Sewing techniques - Specialty feet stitches
6.3 Sewing techniques - Handlook quilt stitches

6.4 Sewing techniques - Embroidery hoop stitches

6.5 Sewing techniques - Four direction stitches

**Alphabets**

**Block**

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z . , ~

**Comic**

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z . , ~

**Cyrillic**

А Б В Г Д Е Ж З И Я К Л М Н О П Р С Т У Ф Х Ц Ч Ш Щ Ь Ы Ь Э Ю Я ~

**Outline**

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z . , ~

**Script**

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z . , ~

**Grand**

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z . , ~
Preparations
**Unpacking**
1. Place the box on a steady, flat surface. Lift the machine out of the box and remove the outer packaging and lift off the machine carrying case.
2. Remove all other packing material and the plastic bag.
3. Slide off the accessory tray and remove the styrofoam inside.

*Note: Styrofoam left in the accessory tray while sewing may affect stitch quality. The styrofoam is for packing purposes only and should be removed.*

**Connect to the power supply**
Among the accessories you will find the power cord and the foot control.

*Note: Before plugging in the foot control, check to ensure that it is type “FR5” (see underside of foot control).*

1. Pull out the cord from the foot control. Connect the foot control cord to the front socket on the bottom right side of the machine (1).
2. Connect the power cord to the rear socket on the bottom right side of the machine (2). Plug the cord into the wall socket.
3. Press the ON/OFF switch to ON to turn on power and light (3).

**For the USA and Canada**
This sewing machine has a polarized plug (one blade wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in any way.

**Pack away after sewing**
1. Switch the main switch (3) off.
2. Unplug the cord from the wall socket and then from the machine (2).
3. Unplug the foot control cord from the machine (1). Pull the cord gently and release - the cord will retract itself into the foot control.
4. Place all accessories in the accessory tray. Slide the tray on to the machine around the free arm.
5. Place the foot control in the space above the free arm.
**Custom LED lights**
Your machine has LED lights which distribute the light evenly over the sewing area and eliminates shadows. You can adjust the intensity and color temperature of the light in the Settings menu, see chapter 3.

**Free arm**
To use the free arm, slide off the accessory tray. When attached, a hook keeps the accessory tray locked to the machine. Remove the tray by sliding it to the left.

**Thread cutter**
To use the thread cutter, pull the thread from back to front as shown.

**Stylus holder**
To keep the stylus in place when not using it, the stylus holder is provided with a locking feature. To release the stylus, just bend it slightly towards you.
Spool pins
Your machine has two spool pins, a main spool pin and an auxiliary spool pin. The spool pins are designed for all types of thread. The main spool pin is adjustable and can be used both in a horizontal position (the thread reels off the spool) and a vertical position (the thread spool rotates). Use the horizontal position for normal threads and the vertical position for large spools or specialty threads.

Horizontal position
Place a spool cap and the thread spool on the spool pin. Make sure that the thread reels over the top and slide on a second spool cap. Use a spool cap slightly larger than the thread spool. For narrow thread spools, use a smaller spool cap in front of the spool. For large thread spools, use a larger spool cap in front of the spool. The flat side of the spool cap should be pressed firmly against the spool. There should be no space between the spool cap and the thread spool.

Vertical position
Raise the spool pin to the vertical position. Slide on the large spool cap and place a felt pad under the thread spool. This is to prevent the thread from reeling off too fast. Do not place a spool cap on top of the spool pin as that would prevent the spool from rotating.

Auxiliary spool pin
The auxiliary spool pin is used when winding a bobbin thread from a second spool of thread or for a second spool when sewing with a twin needle. Raise the auxiliary spool pin. Slide on a large spool cap and place a felt pad under the thread spool.
**Threading the machine**

Make sure that the presser foot is raised and the needle is in the up position.

1. Place the thread on the spool pin and fit a spool cap of the right size.
2. Pull the thread into the thread guide by pulling it from the front to the back (A). Make sure the thread clicks into place. Then pull the thread underneath the bobbin thread guide (B) on the pre-tension disc (C).
3. Thread down through the right-hand threading slot and then upwards through the left-hand threading slot.
4. Bring the thread from the right into the take-up lever (D) and down in the left-hand threading slot to the needle thread guide (E).
5. Thread the needle.

**Needle threader**

The needle threader allows you to thread the needle automatically. The needle must be in the up position to use the built-in needle threader. We also recommend lowering the presser foot.

1. Use the handle to pull the needle threader all the way down. The threader hook (G) swivels through the needle eye.
2. Place the thread from the back over the hook (F) and under the thread hook (G).
3. Let the needle threader gently swing back. The hook pulls the thread through the needle eye and forms a loop behind the needle. Pull the thread loop out behind the needle.

Note: The needle threader is designed to be used for size 70-120 needles. You cannot use the needle threader for size 60 needles or smaller, the wing needle, twin needle or triple needle. There are also some optional accessories that require manual threading of the needle.

When threading the needle manually make sure that the needle is threaded from front to back. The bobbin cover can be used as a magnifying glass.
Threading for twin needle
Replace the sewing needle with a twin needle. Make sure that the presser foot is raised and the needle is in the up position.

1. Place the thread on the spool pin and fit a spool cap of the right size. Raise the auxiliary spool pin. Slide on a large spool cap and a felt pad. Place the second thread on the spool pin.

2. Pull the threads into the thread guide by pulling them from the front to the back (A). Make sure the threads click into place. Then pull the threads underneath the bobbin thread guide (B) on the pre-tension disc (C).

3. Thread down through the right-hand threading slot and then upwards through the left-hand threading slot. Make sure that you pass one thread to the left and one thread to the right sides of the tension disk (F).

4. Bring the threads from the right into the take-up lever (D) and down in the left-hand threading slot. Make sure that one thread is inside the needle thread guide (E) and the other one outside. Make sure that the threads do not become twisted together.

5. Thread the needles.

Thread sensor
If the upper thread breaks or bobbin thread runs out, the machine stops and a pop-up appears on the screen.

If upper thread breaks: Re-thread the machine and touch OK on the pop-up. If bobbin thread runs out: replace with a wound bobbin and continue sewing.
Bobbin winding

Winding from horizontal position
1. Place an empty bobbin on the bobbin spindle, with the logo facing up. Use only the original PFAFF® bobbins approved for this model.
2. Place the thread spool on the spool pin in horizontal position. Slide a spool cap tightly against the spool.
3. Place the thread into the thread guide (A) from front to back. Pull the thread counter-clockwise above the bobbin winder thread guide (B) and then through the bobbin thread guides (C) at the rear.
   Note: Make sure the thread is pulled securely inside the pre-tension device for correct thread tension.
4. Thread through the slot in the bobbin (D) from the inside to the outside.
5. Push the bobbin winder lever towards the bobbin to wind. A pop-up appears on the screen. To adjust winding speed, use the slider in the pop-up. Stop and start bobbin winding with the icons in the pop-up. Hold the end of the thread firmly when starting to wind.
   When the bobbin is full, the bobbin winder lever will switch back and the winding will stop automatically. The pop-up closes. Remove the bobbin and cut the thread using the bobbin thread cutter. Cut the free thread end close to the bobbin.

Winding while threaded
Make sure that the presser foot and the needle are in the up position. To prevent the needle from bending, pull the thread out of the needle.
Bring the thread up from the needle thread guide (D), upward through the left-hand threading slot and through the bobbin thread guides (E). Then follow step 4 and 5 above.
Winding while embroidering or sewing
Swing the auxiliary spool pin up. Place an appropriate spool cap, felt pad and thread spool on the spool pin.
The needle thread (blue) is placed into the thread guide (A) and underneath the bobbin winder thread guide (B). Pull the bobbin thread (red) counter-clockwise above the bobbin winder thread guide (B) and through the bobbin thread guides (C). Then follow step 4 and 5 on the previous page.

Inserting the bobbin
1. Remove the bobbin cover by sliding it towards you.
2. Place the bobbin in the bobbin case with the logotype facing up and the thread unreeling from the left of the bobbin. The bobbin will then rotate counter-clockwise when you pull out the thread.
3. Place your finger on the bobbin to keep it from turning as you pull the thread firmly to the right and then to the left into the tension spring (A) until it “clicks” into place.
4. Continue threading around (B) and to the right of the thread cutter (C). Replace the cover. Pull the thread to the left to cut.
**IDT (Integrated dual feed)**

For sewing any fabric precisely, PFAFF® creative visions™ sewing and embroidery machine provides the ideal solution: the integrated dual feed, IDT system. As on industrial machines, the IDT feeds the fabric from the top and bottom at the same time. The material is fed precisely. On light fabrics such as silk or rayon, the dual feed prevents puckering of the seam. The even feeding action also ensures perfect matching of checked and striped fabrics. The IDT keeps all layers of quilt projects aligned to prevent shifting of the top layers.

**Engaging the IDT**

Important: For all work with the IDT, use presser feet with the center back cut-out.

Raise the presser foot. Press the IDT down until it engages.

**Disengaging the IDT**

Raise the presser foot. Hold the IDT with two fingers at the ribbed ankle. Pull the IDT down, then pull it away from you to release the IDT slowly upward.

**Electronic knee-lift**

Your machine comes with an electronic knee-lift for regulating the presser foot height.

Insert the knee-lift in the provided hole on the machine. The flat side must face upwards. Adjust the rectangular bar on the knee-lift until it is positioned at a comfortable height for you (A).

If you press the knee-lift to the right, the presser foot will raise. You can now guide the fabric with both hands.

To remove the knee-lift, just pull it straight out of the hole.
**Needles**

The sewing machine needle plays an important role in successful sewing. Use only quality needles. We recommend needles of system 130/705H. The needle package included with your machine contains needles of the most frequently used sizes.

**Universal needle (A)**
Universal needles have a slightly rounded point and come in a variety of sizes. For general sewing in a variety of fabric types and weights.

**Stretch needle (B)**
Stretch needles have a special scarf to eliminate skipped stitches when there is a flex in the fabric. For knits, swimwear, fleece, synthetic suedes and leathers.

**Embroidery needle (C)**
Embroidery needles have a special scarf, a slightly rounded point and a slightly larger eye to avoid damage to thread and materials. Use with metallic and other specialty threads for embroidery and decorative sewing.

**Denim needle (D)**
Denim needles have a sharp point to penetrate tightly woven fabrics without deflecting the needle. For canvas, denim, microfibers.

**Wing needles (E)**
The Wing needle has wide wings on the side of the needle to poke holes in the fabric when sewing entredeux and other hemstitches on natural fiber fabrics.

**Note:** Change the needle often. Always use a straight needle with a sharp point (F).
A damaged needle (G) can cause skipped stitches, breakage or snapping of thread. A damaged needle can also damage the stitch plate.
Do not use asymmetrical twin needles (H), since it may damage your sewing machine.
Changing the needle
1. Use the hole in the multi-purpose tool to hold the needle.
2. Loosen the needle screw.
3. Remove the needle.
4. Insert the new needle, using the multi-purpose tool. Push the new needle upwards with the flat side away from you until it will go no further.
5. Tighten the needle screw as tight as it will go.

Lowering feed dogs
Your machine automatically raises or lowers the feed dogs depending on the stitch you have selected. For example, the feed dogs are lowered when sewing on buttons, free-motion sewing and embroidering. The feed dogs are also lowered when using the presser foot extra lift.
When a new stitch is selected the feed dogs are automatically raised again when you start sewing.

Changing the presser foot
Remove presser foot
Press the presser foot downwards until it disengages from the presser foot holder.

Attach presser foot
Line up the pins on the foot with the gap underneath the presser foot holder. Press upwards until the foot snaps into place.
You can also use the presser foot up/ down buttons to raise or lower the presser foot holder. Place the presser foot under the presser foot holder, so that the pins of the foot snap onto the presser foot holder when lowered.
**USB ports**
Your machine has two USB ports – one to connect the sewing machine to your computer, and one to connect either your USB embroidery stick, optional CD-drive, optional USB hub or optional mouse.

**USB embroidery stick**
Delivered with your machine is a USB embroidery stick. Use the stick to store designs and other files, or to move files between the computer and sewing machine.

**Connect to and remove from USB port**
Insert the USB embroidery stick or other devices in the upper port. The USB plugs can only be inserted one way – do not force them into the ports!
The USB PC cable packed with your machine (P/N:412 62 59-04) plugs in to the lower port. No other cable should be used in this port. Connect the other end of the cable to your PC.
*Note: Install the Embroidery Machine Communication CD before connecting the machine to your PC.*
To remove, carefully pull the USB embroidery stick or the plug of the USB cable out straight.

**Using the USB embroidery stick**
A light at the end of the stick indicates that the USB embroidery stick is plugged in correctly. When loading from or saving to the USB embroidery stick, the light flashes and an hourglass appears on the screen.
*Note: Do not remove the USB embroidery stick when the hourglass is shown on the screen or while Files & Folders is open. Removing the stick at that time can damage the files on your USB embroidery stick.*

**Connect machine to computer**
Your machine comes with an Embroidery Machine Communication CD. This CD should be installed before the machine is connected to your computer for the first time.
When the software on the CD is installed and the machine and the computer are connected, via the USB cable, you can easily move designs or other files to your machine.
*Note: Your computer must be running Windows® XP or Windows® Vista.*
5D™ Embroidery Software

Computer Connection
The Embroidery Machine Communication module is automatically installed. This is required to use the Send To features in any 5D™ Embroidery System module, and Send Multiple in 5D™ Organizer.

5D™ QuickFont
Create font files (.vf3) for your PFAFF® creative vision™ embroidery machine from most TrueType® or OpenType® fonts on your computer.

5D™ Organizer
Find your designs and pictures easily. Browse them in different sizes and print selected groups as full worksheets of thumbnail catalogs. Covert your designs between major embroidery formats, to pictures or desktop wallpaper for your computer.

Installing your software
If you own other PFAFF® 5D™ Embroidery System software, you may need to install the 5D™ Embroidery System 9.2 (or higher version) Update instead of installing the Embroidery Machine Communication Software. Then add the PFAFF® creative vision™ from the Machine Manager in 5D™ Configure, as described in Step 5. Continue with Step 6 to install hardware drivers.

1. Ensure your embroidery machine is disconnected from your computer.
2. Ensure you are logged onto your computer with a user name that is an administrator on the computer, then install your software from the CD provided.
3. Insert your CD. In Windows® 7/Vista, an AutoPlay message may appear, asking what you wish to do with the CD. Click the option to Run Menu.exe. Select your desired language, and select the “Install Embroidery Machine Communication Software” option from the menu.
4. Follow the instructions in the Installation Wizard. When asked to enter your Installation Code, enter the following number: 8200.
5. In the 5D™ Configure Wizard under MyMachines select your machine type: PFAFF® creative vision™. Under Send 1 or Send 2 select PFAFF® creative vision™. It is recommended to set the Embroidery Machine Communication module to start automatically when starting Windows.

Note: You can find more detailed information about the installation in the 5D™ Embroidery System Getting Started Guide, in the folder 'UserGuides' on the CD.

Register your 5D™ software
After finishing the software installation, you can select to register your software by clicking on Register in the menu. Create an account and enter your details to receive customized 5D™ newsletters.

Important!
During the registration process you will be given an option to enter which sewing and embroidery machine(s) you own. This is NOT a product or warranty registration. The machine information entered here is only used to customize 5D™ Software newsletters. For product and warranty registration, go to the PFAFF® web site at www.pfaff.com.

To register later, select the Register button in 5D™ Configure at any time.

Install hardware drivers and connect the embroidery machine
Windows® 7/ Vista
6. From the main menu of your CD, click the Install Drivers option for your version of Windows® 7/Vista.

If the following User Account Control message appears: ‘A program needs your permission to continue’, click the Continue button.
7. During the installation process a security message may appear asking ‘Would you like to install this device software?’ Click Install to continue. Click Finish on the last page.
8. You may now connect your embroidery machine to your computer. A message will appear and you will be informed when your embroidery machine is ready to be used.

Windows® XP
6. From the main menu of your CD, click the Install Drivers option for Windows® XP. Drivers are only available for 32-bit Windows® XP.
7. During the installation process, if existing drivers are found, you will be informed that drivers have been removed and that the computer must be restarted. Click OK to restart the computer. Installation will resume after the computer has restarted.
8. At the end of the installation, you will be prompted to connect your embroidery machine. Click Finish on the last page. Leave your 5D™ Embroidery System software CD in your computer.
9. The Found New Hardware wizard will appear. Select ‘No, not at this time’ on the first page, then click Next. Select ‘Install the software automatically’, then click Next. A warning will appear that the drivers are not signed. This is normal and should not be a cause for concern. Click Continue Anyway, and the driver installation will complete automatically.

How to launch the programs

Shortcuts on the Desktop
1. Double-click on the Shortcut to the 5D™ Embroidery System program folder. A list of programs appears.
2. Double-click on 5D™ Organizer, 5D™ QuickFont or 5D™ Configure to launch it. Alternatively use the Start Menu to open modules under Start, All Programs, 5D™ Embroidery System.

Viewing and printing PDF Guides
To find all the Reference and Sample Guides for your 5D™ Embroidery System software, go to Start, All Programs, 5D™ Embroidery System then choose Reference Guides or Sample Guides. Choose relevant folder, then select the desired PDF Guide. Double-click on the desired name to launch the relevant .pdf file if you have Adobe Acrobat Reader, insert the 5D™ Embroidery System CD and select that option from the menu that appears.

Embroidery Machine Communication module
The Embroidery Machine Communication module must be active ( or ) to use your embroidery machine with your computer. The icons are found in the lower right corner of your computer screen. If the Embroidery Machine Communication module is not active, it may be started from the Send tab of 5D™ Configure.

How to update your machine
Be sure to consult the web site at www.pfaff.com and/or your local authorized PFAFF® dealer for updates and upgrades for your machine and Owner’s manual.
You can update your machine using the USB embroidery stick or the USB cable packed with your machine (P/N:412 62 59-04).

Updating instructions
• Go to the PFAFF® web site at www.pfaff.com to find information about available updates.
• Follow the update wizard to prepare your USB embroidery stick for the update.
• While pressing and holding the stitch restart button and needle up/ down button, turn your machine on to start in update mode. Follow the instructions on the PFAFF® HD screen to update.
Buttons and icons

Reverse button (A)
For permanent reverse, press the button once before starting to sew. The reverse indicator (B) will be lit and the machine sews in reverse until you press the button again to cancel. If you press the reverse button while sewing, the machine sews in reverse for as long as you keep the button pressed. The reverse indicator is lit when the reverse button is pressed.
Reverse is also used when sewing buttonholes, programmed tie-off end, darning stitches and tapering stitches to step between the parts of the stitch.

Reverse indicator (B)
The reverse indicator will be lit when pressing the reverse button to sew in reverse. It is also lit while sewing permanent reverse.

Action indicator (C)
The action indicator is lit to indicate that an action is to be done, for example performing tapering. The icon stays lit until the action is done.

Presser foot up and extra lift toggle (D)
Raises the presser foot and needle to the up position.
Press the button once more and the presser foot will raise to extra lift. The feed dogs will be lowered to make it easier to get thick fabric under the presser foot.

Presser foot down and pivot toggle (E)
Lower the presser foot completely. Press the button once more to raise the presser foot to pivot height. The presser foot is lowered automatically when you start sewing.

Immediate tie-off (H)
Press immediate tie-off while sewing and your machine sews a few tie-off stitches and stops automatically. Tie-off is automatically activated when cut has been used.
By touching the tie-off button once more while the action indicator is lit, the function can be turned off.
The tie-off function can be programmed, see chapter 4.

Start/stop (F)
Press this button to start or stop the machine without using the foot control. Press the button once to start and press it again to stop.

Thread snips (G)
Press to cut both needle and bobbin thread immediately.
If pressing this button while sewing, the threads will be cut before the needle moves to the start position of the next stitch. Your machine ties off the thread, cuts the needle and bobbin threads and raises the presser foot and the needle. The thread snips function can be programmed, see chapter 4. Note: Threads are cut automatically when buttonholes are sewn with the Sensormatic buttonhole foot.
Thread snips performed by the machine can be cancelled in the Settings menu.
In embroidery mode the threads are cut and the presser foot raised. The upper thread is only cut automatically at the color change. When the design is finished both needle and bobbin threads are cut automatically.
**Stitch restart (I)**
When having stopped sewing in the middle of a stitch, press restart to start sewing at the beginning of the stitch again without having to reset any special settings you have made.
If pressing the stitch restart button while sewing, the stitch will be finished and the machine will then stop.
You can also use stitch restart to go back to the beginning of an embroidery.

**Needle up/down (J)**
Press this button to move the needle up or down. The setting of the needle stop position is changed at the same time. When needle down is activated, the icon is lit, the needle will stop in the down position and the presser foot will raise to pivot height.
You can also tap the foot control to raise or lower the needle.
PFAFF® HD screen
**PFAFF® HD screen**

Your machine features a PFAFF® HD screen. This technology provides great resolution and color. The screen is very easy to work with - just touch it with your stylus or your finger tip to make your choices. The task bar at the bottom of the screen includes the main functions and help. Every mode entered will have its own color, to make it easier to use the machine.

**Start view**

When turned on, a welcome screen is shown first, then the sewing mode. If the embroidery unit is connected, the embroidery mode appears. When turned off, the screen is dark grey.

**Main parts**

The task bar (A) is used for selecting and activating different functions. The look of the task bar will change depending on whether sewing mode or embroidery mode is active. Change mode by touching the Sewing/embroidery toggle icon (1). The task bar will always be located at the bottom of the screen.

The option bar (B) will be visible in almost every view, on the right hand side of the screen. The option bar has different options depending on which mode is active.

**Task bar**

**Main functions in task bar**

1. Sewing/embroidery toggle icon
2. Sequencing/embroidery text editor
3. Stitch Creator
4. Selection menu
5. Settings menu
6. Info menu
7. Quick help

Sequencing/embroidery text editor (2) will open different windows depending on what mode is active, and if you are using stitch fonts or embroidery fonts.

**In embroidery mode**

8. Embroidery toggle icon

The embroidery toggle icon switches between embroidery edit and embroidery stitch-out. Since embroidery edit and embroidery stitch-out are only available if embroidery mode is active, this icon (8) will be hidden when sewing mode is active.
Use the task bar
Toggle between the sewing mode and the embroidery mode by using the toggle icon (1). The icon for the active mode is highlighted and enlarged.
To activate any function, touch the icon on the task bar. When a function is activated, the icon will be selected and you can make your adjustments. When you are finished, close the view by touching the icon again.
When you want to move from embroidery edit to embroidery stitch-out, just touch the embroidery toggle icon (8).

Common icons
There are some icons and functions that are frequently used on the screen. The most common are described below.

Scroll bar (A)
Use the scroll bar to scroll down the field. The scroll bar is only visible if all items do not fit in the field.

OK (B) and cancel (C)
The OK (B) and cancel (C) icons are used to confirm your settings and selections. They are also used to close full screen windows.
To abort an actual process, touch cancel. To continue, touch OK.

Long touch (D)
Some icons have increased functions, marked with an arrow at the lower right corner. To access these functions, touch and hold the icon for a few seconds.

Touch functions (E)
The touch functions will be used to make adjustments. There are up to four functions to use; move (F), rotate (G), scale (H) and pan (I).
When a function is selected, you can make adjustments by touching the arrows in the wheel, or by touching your stylus on the screen. The appearance of the wheel will change depending on which function is selected. In most cases, the center icon has a function but when pan is selected, it will just show the pan symbol.
Selection menu
The selection menu contains a selection bar at the bottom with icons for stitches, fonts, designs and Files & Folders. Read more about Files & Folders in chapter 10.
Select one of the icons in the selection bar to access the menus. When a stitch, font or design is selected, the selection menu will close automatically. To return to previous view, close by touching cancel.

Selection menu - overview
1. Selection bar
   a) Stitches
   b) Fonts
   c) Designs
   d) Files & Folders
2. Stitch categories
   a) Utility stitches
   b) Quilt stitches
   c) Needle art stitches
   d) Decorative stitches
   e) Maxi stitches
   f) Sewing techniques
   g) Personal menu
3. Stitch subcategories
4. Stitches
5. Clear personal menu (only visible if personal menu is selected)

Selecting a stitch
To select a stitch, first select a category at the top (2). For each category, there are one or more subcategories (3). For each subcategory a list of stitches is shown (4). Select a stitch by touching it.

Personal menu
To find your personal saved stitches, open personal menu (2g). Each subcategory in the personal menu has 32 positions to save your own stitches or sequences. Scroll through the stitches in the selected subcategory. Select a stitch by touching it.
If you want to delete one stitch, first touch the delete icon (5), and then touch the stitch. The position will be emptied. To abort the deletion before selecting a stitch, deselect the delete icon.
A long touch of the delete icon (5) will empty the whole subcategory selected.
Note: All stitches in the subcategory will be deleted, even though they are not visible in the screen.
Selecting a font
Stitch fonts are indicated with a grey background and embroidery fonts have a pink background. Select a font by touching it. Use the scroll bar to see additional fonts.
When an embroidery font is selected, the embroidery text editor will open automatically. You can select different sizes for each font.
Note: Embroidery fonts are only visible if the embroidery mode is active and neither sequencing nor Stitch Creator is active.

Selecting a design
Select an embroidery design by touching it. Use the scroll bar to browse through additional designs.
Note: When a design is selected, the machine will automatically switch to embroidery mode and the design will be loaded into embroidery edit.

Embroidery edit
In embroidery edit you can change colors, size, shape, position and rotation of your designs. You can also combine, save, restore and delete. You can edit your designs with or without the embroidery unit attached.
**Embroidery text editor**
Used to create or adjust text written by embroidery fonts.
To open, select an embroidery font in the selection menu. You can also select an existing text in embroidery edit and then touch sequencing/embroidery text editor on the task bar.

**Embroidery stitch-out**
To embroider your design, change from embroidery edit to embroidery stitch-out by touching the embroidery toggle icon on the task bar.
In embroidery stitch-out you can see functions that are useful when embroidering.
**Sequencing**
With sequencing you can combine various stitches and adjust them. You can use built-in stitches, load stitches from external devices or use stitches you have created. You can program tie-offs, stops and thread snips into your sequence. Connection stitches can be inserted to create endless variations.

**Stitch Creator**
Stitch Creator allows you to create your own 9mm stitch or edit built in stitches. Add, delete, move and adjust your stitch right on screen. Every single stitch point, marked with an outlined square, can be edited.
Start with an empty stitch field and build your stitch or insert a stitch for further adjustments.
Settings menu
In the Settings menu, you can override automatic settings and make manual adjustments to the machine settings (A), sound settings (B) and screen and light settings (C).
Touch the icons to activate a function or open a list of choices. The settings are saved even after turning off the machine.

Machine settings (A)

Owner’s name
Touch the icon to get a pop-up where you can enter your name.

Twin needle
Touch the icon to open a list for twin needle width selections. When a twin needle size is selected, the width of all stitches is limited for that needle size to prevent needle breakage. The setting is kept until you deselect the twin needle width.
When a twin needle size is selected, a pop-up is shown when turning on your machine. Another warning pop-up is shown when selecting a stitch that is too wide for the set twin needle size. The stitch width of those stitches is automatically adjusted to fit the twin needle. Deselect twin needle to go back to normal sewing.

Stitch width safety
Select this function when using a straight stitch stitch plate or a straight stitch presser foot to lock the center needle position for all stitches to prevent damage to the needle, presser foot or stitch plate.
When turning on the machine with this setting activated and for every stitch selection that is not a straight stitch, a pop-up informs you that it is set to straight stitch. Deselect stitch width safety to go back to normal sewing.
Note: Twin needle and stitch width safety cannot be used at the same time.

Bead foot
The beading foot setting will make sure that the tie-off is not made in the center position, where it might hit a pearl. You will find beading stitches in stitch category 6.2.
Deselect the beading foot setting to go back to normal sewing.
**AutoSave current state**
When AutoSave current state is selected, the machine will save current state periodically while embroidering and also when you stop embroidering. The information about the embroidery will be saved even after switching the machine off.
Note: If AutoSave current state is selected it can take longer to go from Embroidery edit to Embroidery stitch-out.

**Timer**
Displays the total sewing and embroidery time of your machine. Touch the icon to reset the timer.

**Cut jump stitches**
Your machine features the automatic function Cut jump stitches. This function saves you time trimming after the embroidery is completed. When Cut jump stitches is selected your machine will trim the top jump stitch thread and pull the thread end to the underside of the fabric as you embroider.
Note: Your machine will also cut the thread after you have changed to a new color. Hold the thread end when you start embroidering again, so that you can easily remove the thread end when cut.

Designs marked with this symbol are programmed for Cut jump stitches. Jump stitch trim commands can be added to any design using the 5D™ Organizer Software, included with your machine.

**Automatic thread snips**
When selected, the automatic thread snips is activated. The threads are cut automatically and the presser foot raises at color changes or when an embroidery is finished. When deselected, no automatic thread snips will be performed.

**Automatic presser foot lift**
When selected, the automatic presser foot lift is activated. The presser foot will raise to pivot height for example when stopping with the needle in the down position. When deselected, the presser foot will stay lowered even if the machine stops with the needle in down position.

**Defragment machine memory**
To optimize the sewing and embroidery performance you sometimes need to do a defragmentation. When that needs to be done a pop-up message appears. To defragment your machine first remove unnecessary files then go to the Machine Settings in the Settings menu and select Defragment machine memory. The defragmentation can take up to 45 minutes.
**Sensormatic free-motion**
Activate to set the machine in Sensormatic free-motion mode for presser foot 6A. The feed dogs will lower automatically.

When sewing free-motion at low speed the presser foot will raise and lower with each stitch to hold the fabric on the stitch plate while the stitch is being formed. At higher speed, the presser foot floats over the fabric while sewing. The fabric must be moved manually.

Skipped stitches can occur if your fabric moves up and down with the needle as you are stitching. Lowering the presser foot height will reduce the space between the presser foot and the fabric and eliminate the skipped stitches.
Note: Be careful not to reduce the presser foot height too much. The fabric must still move freely under the presser foot.

To adjust the presser foot height in Sensormatic free-motion mode, long touch the icon (D) and make adjustments in the pop-up.
Note: Make sure that the IDT is disengaged.

**Spring foot free-motion**
Activate to set the machine in Spring foot free-motion mode. The feed dogs will lower automatically. A spring foot will raise and lower with each stitch to hold the fabric on the stitch plate while the stitch is being formed.
Note: Make sure that the IDT is disengaged.

The open-toe free-motion feet are optional and can be purchased at your local authorized PFAFF® dealer. Do not use if Sensormatic free-motion is activated, since the needle might damage the presser foot.
The open-toe free-motion feet, or any spring foot with light grey plastic housing, can also be used for embroidery.

**Presser foot pressure (E)**
In most cases, you do not need to adjust the presser foot pressure. Specialty techniques may require an adjustment. The higher the number the more pressure on the fabric.

**Presser foot height embroidery (F)**
Adjust the height of the presser foot in embroidery stitch-out mode.
Some embroideries may build up under the presser foot. If there is not enough space between the presser foot and the embroidery, the top thread will form loops on the underside of the embroidery. Increase the presser foot height in small steps until the embroidery moves freely under the presser foot.
Sound settings (B)
You can change the sound settings on your machine for different situations. First select from the list (G) which sound event you want to change. Then select the sound (H) you want to play by touching the button. You will be able to hear the sound when you touch the sound button. Each event can have a different sound.

User defined sound
If you want to import your own sound files, use the user defined icon (I) at the bottom of the list. A long touch of this icon will open Files & Folders. Find your sound file and touch the OK icon. The name of the loaded sound file is shown next to the button.

The sound length for icon acknowledge, button/icon disabled and for warning or attention pop-ups is maximum 5 seconds. For starting up and embroidery finished, the maximum sound length is 30 seconds. The sound files must be stored either on your machine or, if connected, an external device or your PC.

Note: You can only play PCM encoded WAV files. For optimal result the file should be 8-bit mono. The machine will not support compressed sound files.

We recommend always storing your sound files on your machine before importing them into user defined sound.

Audio repeat
When active, the signal for some warning or attention pop-ups is repeated in intervals until it is cancelled.

Volume
You can change the volume using the slider.
Screen and light settings (C)

Language
Touch the icon to view the available languages. Select your desired language from the list by touching it.

Calibrate
When touching the icons on the screen, the screen might need a calibration to adjust to your touch. Touch the calibrate icon to open a special screen for PFAFF® HD screen calibration. Follow the instructions on the screen to calibrate.

Lock screen
If needed, you can easily lock the screen while sewing or embroidering. When activated, the screen is locked every time it is inactive for ten seconds. The screen will be locked until you unlock it by touching OK.

Screen saver
When activated, the screen turns off ten minutes after the last touch. Touch the screen or press any button to light the screen again.

Alert light
When activated, you will get a flashing light at some warning pop-ups. When not activated, only the sound will be played.

Adjust Custom LED lights
Adjust the brightness and the color temperature of the Custom LED lights on your machine to make it perfect for all types of fabric and the light conditions in your sewing room. Simply move the button right or left on the slides.
Info menu
Use the info system to easily get help topics and information. The Info menu is a built-in shortened version of the Owner’s manual.
When you touch the info menu icon on the task bar, you have four options to select from - category (J), index (K), personal info (L) and notes (M).
Browse through the topics using your stylus. The left arrow at the top of the screen opens the previous page. The right arrow takes you back to the current page.

Category
Category shows the help topics divided into categories following the structure of the Owner’s manual.

Index
Index shows the help topics in alphabetical order.

Personal info
Personal info contains the owner’s name, machine’s software information and serial number.

Notes
You can open and read text and HTML-files on your machine. The note view shows these text files which are opened from Files & Folders.
Use the left and right arrow buttons at the top of the screen to browse through HTML-files.

Quick help
Your machine has a built-in Quick help, which gives you instant information about everything you see on the screen. Touch the Quick help icon on the lower right corner of the screen. It starts flashing indicating that Quick help is active. Touch the icon or the part of the screen you want information about. A pop-up gives a short explanation. Touch OK to close the pop-up and exit Quick help.
When a USB mouse is connected, it is even easier to use the built-in Quick help. Place the cursor over the icon and right click on the mouse and Quick help will pop-up instantly.
Sewing mode
Sewing mode
In sewing mode view you can select stitches, adjust and sew them. You can also go to Stitch Creator and to sequencing to create your own stitches and sequences. Your selected stitch will be shown in full scale in the stitch field. The recommendations and machine settings will be shown at the top.

Sewing mode - overview
1. Sewing recommendations
2. Machine settings
3. Stitch selection area
4. Scroll bar (Scroll through stitch categories)
5. Selected stitch number
6. Stitch field
7. Mirroring side to side
8. Mirroring end to end
9. Sequence start position
10. Zoom to all
11. Stitch width
12. Width/position toggle
13. Stitch length
14. Stitch density
15. Needle thread tension
16. Save options
   a) Save personal default stitch
   b) Save to Personal menu
   c) Save to Personal file
17. Tie-off options
   a) Tie-off beginning
   b) Tie-off end
   c) Thread snips
18. Speed control
19. Sewing programs
20. Balance
21. Repeat buttonhole
22. Stitch positioning
23. Buttonhole slit length
24. Button stitch repetition
Note: All symbols and options will not be shown at the same time.
Select a stitch
To select a stitch, touch the actual stitch in the stitch selection area (3). You can scroll through the list of stitches, using the scroll bar on the right hand side. The number of the actual subcategory is shown below the scroll bar (4). You can also select a stitch from the selection menu.

Sewing recommendations (1)
Shows recommendations for the actual selected stitch.
a) Presser foot recommendation 
b) IDT recommended 
c) Stabilizer recommended

Machine settings (2)
Shows your settings for different modes.
a) Set for stitch width safety 
b) Set for sensormatic free-motion 
c) Set for twin needle 
d) Set for spring foot free-motion

Raise and lower the presser foot
Your machine features the automatic presser foot up and extra lift button and the presser foot down and pivot button.
To lower the presser foot, place the fabric under the presser foot and press the presser foot down button (B) or step on the foot control. To raise the presser foot, press the presser foot up button (A) or press the thread snips button (C) to cut needle and bobbin thread and raise the foot. When the needle stops in the down position, the presser foot raises to pivot height.
Option bar

Save options (16)
Select where to save your stitch, open the different save options under save (16).

Save personal default stitch (16a)
Select your stitch and then touch this icon (16a) to confirm your default stitch. This stitch will now be selected when you turn on your machine.

Save to Personal menu (16b)
To save a stitch into your Personal menu, touch the save options icon (16) and select save to Personal menu (16b). A new window will open. Choose which subcategory you want to save your stitch in (A). All your previously saved stitches will be shown in the Personal menu.
You can scroll through the list to find a free position, using the arrows (B). Any box without a stitch is a free position and can be used to save your new stitch. Simply touch the position and your stitch is saved.
Any box with a stitch is an occupied position. You can overwrite a previously stored stitch. Simply touch the stitch to overwrite. A pop-up will ask you to confirm that you want to overwrite the previously stored stitch. Cancel the saving process by touching the cancel icon. The saving window will close and you return to the previous screen.
To delete a saved stitch or sequence, touch the delete icon (C). The delete icon will be active until a stitch is selected and deleted or until the delete icon is touched again. A pop-up will ask you to confirm the deletion.
Long touch the delete icon to delete all stitches saved in the current subcategory at one time.
Note: If using the long touch function, even the stitches in the actual subcategory not visible on screen, will be deleted.
Save to Personal files (16c)
To save a stitch into your Personal files, touch the save icon (16) and select save to Personal files (16c). The icon will open a new window where you can select where to save your stitch. You can save either to a folder in your Personal files or to an approved external device.

Tie-off options (17)
These options let you program tie-offs both at the beginning and the end, and thread snips at the end of the stitch.
When touching the tie-off icon, three options open to let you select different functions; tie-off beginning (17a), tie-off end (17b) and thread snips (17c).
When you have activated your settings, you can hide the three icons by touching the tie-off icon on the option bar again. The tie-off icon will show your settings by changing the color of the chosen function. The settings will remain active until you switch them off.
Note: For immediate tie-off, use the tie-off button, found on the front of the machine.

Sewing with tie-off options selected
1. The tie-off beginning (17a) will be performed as soon as you start to sew.
2. Press the reverse button to perform tie-off end (17b). The action indicator will be lit. The machine will finish the stitch and do a tie-off.
   When a thread snip (17c) is programmed, the machine will automatically cut the threads after performing the tie-off end. The needle and presser foot will raise.
   Note: Stop sewing and press the reverse button twice to activate reverse sewing. The reverse indicator will be lit. No tie-off will be performed.
   Press the reverse button when sewing in reverse to activate tie-off end. Both the reverse indicator and the action indicator will be lit.
   To go back to sewing forward, stop sewing in reverse and press the reverse button. No indicators will be lit and no tie-off will be performed.
**Speed control (18)**
This function enables you to easily reduce the maximum sewing speed. Just touch the speed control icon to reduce the speed. To return to normal speed, deselect the icon.
You can change the set speed limit. Long touch the speed control icon to get a pop-up. Set the speed limit you would like by sliding the button right or left and then close the pop-up. The next time you touch the speed control icon, the speed will be reduced to the limit you have chosen.
You can sew without closing the pop-up.
Note: If selecting the highest speed in the slider, it is like choosing no speed limit at all. The icon in the option bar will then be deselected and the speed limit will be set to default.

**Sewing programs (19)**

**Sewing programs - overview**
A Tapering program
B Single stitch program
C Patchwork program
D Preview field
E Set number of stitch repetitions in single stitch program

Note: Not all programs can be used at the same time.
You can sew without closing this pop-up.

**Tapering program (A)**
Tapering increases or decreases the width of the stitch during sewing to create symmetrical or asymmetrical tapers.
Activate tapering by selecting any of the tapering icons (A). The default angle is 45 degrees. Long touch the tapering icon to open a window with different angle choices. Touch the angle you want for your taper.
If tapering is deactivated and then activated again, the angle will be set to the previously selected angle.
When tapering is activated at both the beginning and at the end and you start to sew, the stitch width will start at 0mm. It becomes wider until the selected stitch width is reached. Sew your desired length and press the reverse button. The width is reduced until the width is 0mm and the action indicator on the machine will be lit until the taper is finished.
Single stitch program (B)
Activate the single stitch program by touching the icon (B). When selecting the single stitch program, you decide how many repetitions of the stitch you want to sew.
Set the number of repetitions using the icons on the right (E). The number of repetitions chosen are shown between the + and - icons. The estimated length of the repetitions is shown in the preview field (D). The machine will stop automatically when the repetitions are sewn.

Patchwork program (C)
The patchwork program makes it possible for you to program an exact repeatable seam length. This is very useful when quilting.
To program a seam length, activate the patchwork program (C). Sew your desired seam length and press the reverse button. The action indicator on the machine will be lit until the last repetition of the stitch is finished. This will set the length of the seam. The length of the patchwork sequence is shown in millimeters in the preview field (D).
After you have programmed the patchwork sequence, the patchwork program icon is inactive. The single stitch program is now activated instead. The programmed length of your patchwork can be adjusted using the single stitch adjustment icons (E).

Combining Tapering and Patchwork or Single stitch programs
Combining Tapering and Patchwork or Single stitch programs makes it possible to repeat a tapered seam with the same length.
Activate tapering by selecting any of the tapering icons (A) then activate Patchwork by touching the icon (C). Follow the instructions for tapering on the previous page. When the reverse button is pressed the action indicator will be lit until the taper and last repetition of the stitch is finished.
The seam is now programmed and the single stitch program is activated. When you start sewing again the seam will automatically be repeated with the same length.
The length of the seam is shown in millimeters in the preview field (D). Between the + and - icons (E) the number of repetitions in the program is shown. Use the + and - icons to adjust the length of the seam.
Note: The tapering is included in the repetitions shown on the screen.
Balance (20)
When sewing on special fabrics or doing a special technique, the balance may need to be adjusted. Start by sewing a stitch on a piece of scrap fabric. Touch the balance icon on the option bar to open the balance window. Balance the stitch, using the + and - icons (G). Use the pan icons (F) to see the whole stitch. Change the picture on the screen to match your sewn sample. When you sew again, the balance will be corrected. Buttonholes can also be balanced.

Mirroring (7 and 8)
To mirror stitches or sequences side to side touch icon (7). For mirroring end to end touch icon (8).

Zoom to all (10)
If the stitch or sequence is wider than what can be shown on the screen, you may use the zoom to all icon to see the whole width of the sequence. Note: Zoom to all is only visible if the stitch or sequence is wider than the stitch field.
Stitch settings
Your machine will set the best settings for each selected stitch. You can make your own adjustments on the selected stitch. The setting changes only affect the selected stitch. Your changed settings will be reset to default when selecting another stitch. The changed settings are not automatically saved when turning your machine off. You can save the adjusted stitch in Personal menu.
Note: The set stitch width and the stitch length are shown above the icons. When trying to exceed minimum or maximum settings for width and length, a warning sound will be heard. The default value will be shown in black. Value changes are shown in red.

Stitch width (11)
Increase or decrease the stitch width using + and -.

Stitch positioning (22)
For straight stitches the stitch positioning icon (22) is shown instead of the stitch width icon. Use + to move the needle to the right and - to move the needle to the left. For straight stitches the machine has 37 needle positions.
It is possible to change the needle position of all stitches. Touch the width/position toggle (12) icon to toggle between stitch width and stitch positioning. The stitch position can only be changed to the limit of the maximum stitch width. Changing the stitch position will also limit the stitch width adjustment.

Stitch length (13)
Increase or decrease the stitch length using + and -. If lengthening a zigzag stitch or a decorative stitch, the entire stitch will be longer. If lengthening a satin stitch where the density can be adjusted, the entire stitch will be longer but the density will remain the same.

Stitch length -  
Stitch length +
**Stitch density (14)**
The stitch density control adjusts the density (the closeness of the satin stitches that make up the entire stitch). The density does not affect the actual length of the entire stitch. Touch + to decrease the density. Touch - to increase the density.
Note: This is often used with specialty threads and when a less dense satin stitch is desired.

**Thread tension (15)**
Touch + to increase, and - to decrease the needle thread tension.
For the best stitch appearance and durability make sure the needle thread tension is correctly adjusted, i.e. for general sewing, the threads evenly meet between the two fabric layers.
If the bobbin thread is visible on the top side of the fabric, the needle thread tension is too tight. Reduce the needle thread tension.
If top thread is visible on the underside of the fabric, the needle thread tension is too loose. Increase the needle thread tension.
For decorative stitches and buttonholes the top thread should be visible on the underside of the fabric.

**Buttonhole slit length (23)**
Set the buttonhole slit length by using + to increase and - to decrease when sewing a buttonhole with the Sensormatic buttonhole foot.
**Button stitch repetition (24)**
Touch + to increase and - to decrease the number of stitch repetitions to be sewn, when sewing on a button.

**Sequence start position (9)**
When sewing a sequence it is possible to start sewing anywhere in the sequence. Use the arrows (9) to step through the sequence.
Sewing techniques
These techniques may require some special presser feet and accessories.

Three-step zigzag stitch
Stitch number 1.1.9 can be used to overcast raw edges. Make sure the needle pierces the fabric on the left side and overcasts the edge on the right side.
Stitch number 1.1.9 can also be used as an elastic stitch to add elastic to pajamas, skirts and sportswear.

Buttonholes
Buttonholes are found in category 1, subcategory 1.3 in the selection menu. You can also scroll through the list in sewing mode to find the buttonhole subcategory.
Note: Buttonholes up to 50 mm can be sewn using the Sensormatic buttonhole foot. Both sides of the Sensormatic buttonhole are sewn in the same direction for a more even result.
Buttonholes over 50 mm are sewn manually in four steps with presser foot 5M.
The direction of the stitches being sewn will be indicated on the screen by an arrow next to the buttonhole.
To sew a buttonhole, first attach the correct foot, then select your buttonhole. To ensure a good result, start with sewing a test sample on the fabric and stabilizer you will use.
Note: Make sure that the IDT is disengaged.

Attaching the Sensormatic buttonhole foot
1. Snap on the Sensormatic buttonhole foot.
2. Plug the cord into the socket found to the left underside between the two LED lights (A).
Sensormatic buttonhole
When you sew a buttonhole with the Sensormatic buttonhole foot, adjust the slit length (23) so that it is slightly larger than the size of the button. You can measure your button using the button ruler on the lid.
Set the slit length and make sure that the red arrow line up with the marking on the foot. Start sewing by pressing the foot control or start/stop button. The buttonhole will be completed automatically and the threads are cut. You can repeat the buttonhole as many times as you wish.

Manual buttonhole
To sew a manual buttonhole, use presser foot 5M. Sew the first column as long as you want the buttonhole. Touch the reverse button. The machine sews the bartack and the second column. When the columns are aligned, press the reverse button to sew the second bartack.

Repeat a manual buttonhole (21)
When you have adjusted your buttonhole, use the repeat buttonhole function (21), to sew identical copies. As long as that icon is selected, the machine will repeat the buttonhole over and over again. Repeat buttonhole is only visible when sewing a buttonhole manually.
To cancel the function, just deselect the icon. The repeat function will also be cancelled if any adjustments are made.
**Corded buttonhole**

Corded buttonholes that are sewn with gimp threads are more stable, durable and have a professional appearance. Use pearl cotton or a regular gimp thread.

1. Place the center of a length of gimp thread over the metal bar extending from the center back of the sensormatic buttonhole foot 5A. Pass the thread ends under the foot and pull up into the right and left guides on the front of the presser foot.

2. Snap on the sensormatic buttonhole foot 5A. Before starting to sew, make sure that the red arrow lines up with the marking on the foot.

3. After completing the buttonhole, pull the ends of the gimp thread until the loop of thread is hidden below the buttonhole bartack.

4. Thread the gimp threads into a needle and pull them to the wrong side of the garment. Tie the gimp threads and cut off the excess thread.

**Sew on a button**

To sew on a button, remove the presser foot and select the sew on button program. The feed dogs will automatically be lowered.

Place the button under the presser foot holder. Use the mirroring icon to make sure the holes in the button are aligned with the swing of the needle and the width is appropriate for the actual button. If needed change the width between holes with the width icons.

If needed, increase or decrease the number of stitches that will fasten the button on the fabric, using the button stitch repetition icons (24). Start to sew. The machine will sew the program for you.

Note: Use the multi-purpose tool to create a thread shank for your button. You can also use a sew on button foot, available as an optional accessory at your local authorized PFAFF® dealer.
Sewing hems in heavy fabric
When sewing over seams in extra heavy fabric or a blue jeans hem, the presser foot can tip as the machine climbs over the seam. Use the multi-purpose tool to balance the height of the presser foot as you sew.
One side of the tool is thicker than the other. Use the side that suits the thickness of the seam best.

Handlook quilting
A quilt usually consists of three layers, two layers of fabric with a layer of batting sandwiched between.
1. Baste the completed quilt top to the batting and backing.
2. Thread the needle with an invisible (monofilament) thread. Use contrasting or matching rayon or cotton thread in the bobbin.
3. Snap on the recommended foot shown in the sewing recommendations view.
4. Engage the IDT.
5. When you sew the stitch you should only see your bobbin thread. Increase the needle tension as needed to produce the desired effect.

Blindhem stitch
The blindhem stitch number 1.1.16 is used to make invisible hems on skirts, trousers and home decorating. Use foot number 3 with IDT.
- Finish the edge of the hem.
- Fold and press the hem allowance to the wrong side.
- Fold the hem back on itself so approximately 3/8” (1 cm) of the finished edge extends beyond the fold. The wrong side of your project should now be facing up.
- Place the fabric under the presser foot so that the fold runs along edge guide A.
- When the needle swings into the fold it should catch a small amount of fabric. If the stitches are visible on the right side, adjust edge guide A by turning adjusting screw B until the stitch that catches the hem just barely shows.
Elastic blindhem stitch
The elastic blind stitch number 1.1.17 is especially suitable for stretchy fabrics, because the zigzag in the stitch lets the stitch stretch. The hem is finished and sewn at the same time. There is no need to finish the raw edge first on most knits.

Sewing in zippers
There are different ways to sew in zippers. Follow the directions included with your pattern for best results.
For all types of zippers it is important to sew close to the teeth of the zipper. The zipper foot 4 can be snapped to the presser foot bar on the left or right, depending on how you will insert your zipper.
Then set the stitch position so that it enters close to the edge of the zipper teeth by using one of the 37 needle positions available for the straight stitch. If the presser foot is attached on the right side, the needle must only be moved to the right. If the foot is attached on the left, the needle must only be moved to the left.

Rolled hem
Use the rolled hem foot 7 to finish the edges of blouses, scarves, or ruffles without having to iron the edges beforehand. Hemming prevents the edges from fraying and produces a neat and durable edge finish.
• Double-fold the fabric edge (about 1/8” - 2 mm - per fold).
• Place the folded fabric edge under the rolled hem foot and sew a few stitches to secure.
• Turn the handwheel towards you until the needle is at its lowest point. Raise the presser foot and slide the fabric into the scroll of the foot.
• Lower the presser foot and while sewing, guide the fabric edge evenly into the foot.
When roll-hemming, make sure the raw edge of the fabric butts against the left edge of the rolled hem foot opening. Ensure the fabric does not run underneath the right side of the presser foot.
Note: A narrow zigzag stitch also makes a nice rolled hem on lighter stretch fabrics such as lingerie nylon.
Special sewing techniques
The 6th stitch category includes special sewing technique stitches like candlewicking, pearl stitches, edge stitches and four direction sewing. These techniques may require some special presser feet and accessories. This is indicated by the optional presser foot icon (A).

Note: Touch Quick help (D) and then touch the presser foot icon (A) to find out which special presser foot is required for the selected stitch.

Four direction sewing
Some stitches in category 6 can be sewn in four directions. Use them for sewing on patches without having to turn your fabric and for decorative stitch designs. When selecting a stitch in this subcategory, the four direction icons will be shown (C).

The starting point is marked in the stitch field (B), and the actual sewing direction is indicated with an arrow. The selected direction icon is also showing the actual sewing direction. To change the direction, use the four direction sewing icons (C).

When the desired length is sewn in one direction, select the new direction by touching one of the four direction icons.
Common sewing pop-ups

**System busy**
When the machine is loading, saving, moving files or anything that takes time, an hour glass is shown.

**Bobbin empty**
When the bobbin is almost empty, the machine stops automatically and a pop-up appears on the screen. Replace the empty bobbin with a full one.

**Check needle thread**
The machine stops automatically if the needle thread runs out or breaks. Re-thread the needle thread, close the pop-up and start sewing again.

**Remove Sensormatic buttonhole foot**
The Sensormatic buttonhole foot needs to be removed before doing any of the following:
• Sewing a stitch that is not a buttonhole.
• Sewing a buttonhole that can not be sewn with the Sensormatic buttonhole foot.
• Sewing an adjusted buttonhole saved without the Sensormatic buttonhole foot in your Personal menu.
Sequencing
Sequencing
In sequencing, you are creating and adjusting a sequence of stitches. Combine various 9mm stitches, maxi
stitches and stitch fonts from the machine or from an external device. Stitches made in Stitch Creator can
also be inserted in a sequence.
You can create sequences up to approximately 500mm (20”) long. You can see how long your actual
sequence is in the upper left corner (1).

Sequencing - overview
1. Approximate length of sequence
2. Stitch selection area
3. Scroll bar (Scroll through stitch
categories)
4. Stitch field
5. Delete
6. Duplicate
7. Mirroring side to side
8. Mirroring end to end
9. Zoom to all
10. Arrows
11. Stitch width
12. Width/ position toggle
13. Stitch length
14. Stitch density
15. Save options
   a) Save to personal menu
   b) Save to personal files
16. Sequence commands
   a) tie-off
   b) stop
   c) cut
17. Directional stitches
18. Horizontal preview
19. Stitch positioning
Note: All symbols and options will not be
shown at the same time.

Sequencing can be used in both sewing mode and in embroidery mode. To open, just touch the
sequencing symbol on the task bar. To close sequencing and sew your created combination, touch the
symbol on the task bar again.
Note: If sewing mode is active and your programmed stitch is ready to be sewn, you can also close the active function
by pressing the foot control, or by pressing the start/stop button.
Not all stitches are available to use in a sequence. If you try to select an unavailable stitch, a pop-up will
notify you.
**Create a sequence**

The active position is marked by a cursor and the selected stitch or letter will be marked in red. Inserted stitches will be placed at the cursor position. Only the selected stitch can be adjusted. Move the cursor through the sequence using the arrows (10). Between the arrows the number of the actual stitch will be shown next to the total number of stitches in the sequence. Open the selection menu to load a stitch font. Select the desired font. In the stitch selection area, select from upper or lower case letters, normal or special letters and special symbols.

**Insert a stitch or letter**

Move the cursor where you want to add a stitch or letter. Select the desired stitch you want to insert. It will be placed at the cursor position.

**Adjust text and stitches**

You can mirror, adjust length and width or change the density or position of the selected stitch. The adjustments work just like in sewing mode.

**Delete a stitch or letter (5)**

If you want to delete a stitch, move the cursor to the stitch you want to delete and touch the delete icon. Use the long touch function to delete the whole sequence.

**Duplicate a stitch or letter (6)**

To duplicate a stitch, move the cursor to the stitch you want to duplicate. Touch the duplicate icon to copy the selected stitch. Note: Make your adjustments on the stitch before duplicating and the copied stitch includes the adjustments. Use the long touch function to get a pop-up where you can enter the exact number of copies you want to insert.

**Replace a stitch or letter**

To replace a stitch, simply select it and then touch delete and insert the new stitch. It will be placed at the cursor position.

**Zoom to all (9)**

If the stitch or sequence is wider than what can be shown on the screen, you may use the zoom to all icon to see the whole width of the sequence. Note: Zoom to all is only visible if the stitch or sequence is wider than the stitch field.
Option bar

Save options (15)
You can save your sequence to a personal menu (15a) or to personal files (15b).

Sequence commands (16)
You can insert tie-offs, stop and thread snips commands into the sequence. These commands will be included in the sequence and will always be performed when sewing it.

Use the tie-off command (16a) if you want a secure tie-off. You can insert the tie-off commands anywhere in the sequence.

Note: If creating a sequence in embroidery mode, tie-offs at the beginning and end will be added automatically, allowing you to create a sequence in between. The commands can be removed.

Insert a stop command (16b) if you want the machine to stop. This is useful for example at the end of the sequence if you want to sew it only once or to create a sequence in several rows.

Insert the thread snips command (16c) if you want the machine to tie-off and cut the threads and raise the presser foot.

Move the cursor to the position where you want to add a command. Select it and an icon will be added into the sequence. This confirms that the command is inserted and it also shows where the command will be performed in the sequence.

Note: The commands will appear on the screen in the order you program them.
Directional stitches (17)
Add directional stitches between stitches in a sequence. These stitches make it possible to move stitches in various directions and you can create new shapes and wider large-area borders. Directional stitches are straight stitches with a length of approximately 1mm and can be used in 16 different directions.

Open the directional stitches pop-up. The selected angle will be indicated in red (A) in the directional field (B). The angle will also be shown on the pop-up (C). Touch the directional field to select which angle you want to insert a stitch. You can either touch the desired line on the white area or touch and drag the red line and then release it at the desired angle.

When the intended angle is selected, touch the insert icon (D) and one stitch will be inserted in the sequence at the cursor position. The directional stitch can be deleted, duplicated or mirrored without closing the directional stitches pop-up.

Horizontal preview (18)
To see your sequence horizontally, touch the preview icon.
Your sequence will be shown on a pop-up. If it is too long for the window, it is possible to zoom to all (E) to see the entire sequence. You can also scroll through the sequence with the arrows (F).

Sewing a sequence
To sew the sequence, return to sewing mode or embroidery edit. Close sequencing by deselecting the sequencing icon on the task bar. Adjustments made in sewing mode or embroidery mode will affect the whole sequence. However, these changes will not be saved if you return to sequencing. In embroidery edit, the position of the sequence will be kept.
In sewing mode it is possible to start sewing anywhere in the sequence. Use the arrows (G) to step through the sequence.
Important sequencing information
Sequencing can be used in either sewing mode or embroidery mode. A sequence created when embroidery mode is active will become an embroidery design when saved and cannot be sewn as a stitch in sewing mode.

To save a sequence
If sewing mode is active, you can save your sequence both in personal menu (A) and personal files (B). If embroidery mode is active, your sequence will be loaded to embroidery edit, and can only be saved as a design (C). A sequence created in sewing mode can be loaded manually into embroidery edit.

Note: A sequence can be opened in Stitch Creator and modified. If you are doing this, your sequence will become one stitch. When re-opening sequencing, it will not be possible to adjust any part of the former stitches in the sequence any more. All parts will be handled as one stitch.

To re-load a sequence
If sewing mode is active when closing sequencing, your sequence will be loaded to sewing mode and is ready to be sewn. If selecting another stitch in sewing mode and then re-opening sequencing, your sequence will remain unchanged. Every time sequencing is closed, the sequence will be loaded to sewing mode.

If embroidery mode is active, your sequence will be loaded to embroidery edit as a design. If a sequence is selected and you re-open sequencing from embroidery mode, the sequence will remain unchanged. If no sequence is selected, sequencing will be empty, ready to create something new. Every time sequencing is closed, the sequence will be loaded to embroidery edit.

To use sequencing in either sewing mode or embroidery mode
A sequence created when sewing mode is active will not be available when opening sequencing after activating embroidery mode and vice versa. The created sequence will not be transferred to the other mode.

Common sequencing pop-ups
Not an editable stitch
Some stitches are not possible to insert in a sequence, for example buttonholes and four direction stitches.

Sequence out of range
Your programmed stitch can be up to approximately 500mm (20”) long and contain up to 99 stitches. If the sequence exceeds the maximum length this pop-up will let you know. The stitch you are trying to add will make the sequence too long.
Stitch Creator
Stitch Creator

In Stitch Creator, you can create completely new stitches and adjust every single stitch point. Customize and create your own stitches. Add, erase, move and combine stitches directly on screen. Either create a stitch of individually designed stitches or use already existing stitches or letters. You can also insert a built-in stitch, and then edit to create your own version of that stitch.

The width of the stitch field is 9mm and maximum stitch length is 6mm. The grid and the vertical center line will help you to create your stitch. Your stitch can be up to approximately 500mm (20") long and can be stored in your personal menu or in personal files.

Stitch Creator - overview

1. Stitch selection area
2. Scroll bar (Scroll through stitch categories)
3. Stitch field
4. Delete
5. Duplicate
6. New stitch point
7. Mirroring side to side
8. Mirroring end to end
9. Triple stitch
10. Zoom
11. Multi-select
12. Arrows
13. Touch function - move
14. Touch function - pan
15. Wheel
16. Stitch point needle position
17. Feeding length
18. Save options
   a) Save to personal menu
   b) Save to file

Stitch Creator can be used in both sewing mode and in embroidery mode. To open, just touch the Stitch Creator symbol on the task bar. To close Stitch Creator and sew your created stitch or combination, touch the symbol on the task bar again.

Note: If sewing mode is active and your programmed stitch is ready to be sewn, you can also close the active function by pressing the foot control, or by pressing the start/stop button.

Some stitches cannot be used with Stitch Creator. If you try to select one of these stitches, a pop-up will notify you.
Definition of a stitch point
A stitch point is the point where the needle goes through the fabric. Stitches are connected by stitch points.
A marked stitch point is indicated by a filled square, a selected stitch point is indicated by an outlined square.

Delete selected stitch point (4)
If you want to delete a single stitch point, select the stitch point and touch the delete icon. If more than one stitch point is selected, they will all be deleted when touching the delete icon.
Use the long touch function to delete all stitch points in the stitch field.

Duplicate selected stitch point (5)
If you want to duplicate a stitch point, select the stitch point and use the duplicate icon to create a copy.
If several stitch points are selected, all stitch points will be duplicated and inserted after the marked stitch point.
Use the long touch function to get a pop-up where you can enter the exact number of duplicates you want to insert.

Insert a new stitch point (6)
Touch this icon to insert one single stitch point. The two stitch points will create a new stitch.

Mirroring side to side (7)
The selected stitch point(s) will be mirrored side to side.

Mirroring end to end (8)
The selected stitch points will be mirrored end to end.
Note: Only enabled if more than one stitch point is selected.

Triple stitch (9)
Touch the triple stitch icon and the selected stitch(es) will be tripled.
Note: Only active if at least two stitch points are selected.
Zoom (10)
When using the zoom icons, the focus will be on the marked stitch point.
The distance between the grid lines equals 1mm on the fabric. If you zoom in on the stitch field, thinner grid lines will appear. The distance between these lines equals 0.5mm. If zooming out, only the edge lines of the stitch field will be visible.

Select stitches/stitch points
To select a stitch point, just touch it on screen with your stylus. If selecting more than one stitch point, the stitches in between will automatically be selected as well.
To mark the previous or next stitch point in your stitch, use the arrows (12).
Between the arrows is information about the stitch or combination shown. The first number is the marked stitch point. The second number is the total number of stitch points.

Multi-select (11)
Long touch the multi-select icon to select all stitch points at the same time.
To select the stitch points next to the marked stitch point, touch the multi-select icon and then touch the arrows (12) to select the next stitch point.
Use the up arrow to select stitch points before the marked stitch point and the down arrow to select the stitch points after the marked stitch point.
Note: If selecting stitch points using the up arrow, you can deselect them by touching the down arrow.
Touch functions
Use your stylus to make changes directly on screen by touching and dragging in the stitch field. You can pan and move depending on which touch function is activated. You can also use the arrows in the wheel to make minor adjustments.

Move (13)
You can move the selected stitch or stitch points using your stylus on the screen or touch the arrows in the wheel (15).

Pan (14)
You can either pan using your stylus on the screen or touch the arrows in the wheel (15).
Note: You can not pan outside the sewing area, i.e. when scale is 100% or less, you can not pan sideways.

Position of the marked stitch point
The number to the left above the wheel (16) shows the actual needle position from the center line for the marked stitch point.
The number to the right above the wheel (17) shows the actual feeding length from the previous stitch point.

Save options (18)
You can save your newly created stitch to your Personal menu (18a) or to your Personal files (18b).
Important Stitch Creator information

Stitch Creator can be used in either sewing mode or embroidery mode. A stitch created when embroidery mode is active will become an embroidery design when saved, and cannot be sewn as a stitch in sewing mode.

To save a stitch
If sewing mode is active, you can save your stitch both in personal menu (A) and personal files (B). If embroidery mode is active, your stitch will be loaded to embroidery edit, and can only be saved as a design (C). A stitch created in sewing mode can be loaded manually into embroidery edit.

To re-load a stitch
If sewing mode is active when closing Stitch Creator, your stitch will be loaded to sewing mode and is ready to be sewn. If selecting another stitch in sewing mode and then re-opening Stitch Creator, your stitch will remain unchanged. Every time Stitch Creator is closed, the stitch will be loaded to sewing mode.

If embroidery mode is active, your stitch will be loaded to embroidery edit as a design. If a sequence or stitch is selected and you re-open Stitch Creator from embroidery mode, the stitch will remain unchanged. If no stitch is selected, Stitch Creator will be empty, ready to create something new. Every time Stitch Creator is closed, the stitch will be loaded to embroidery edit.

To use Stitch Creator in either sewing mode or embroidery mode
A stitch created when sewing mode is active will not be available when opening Stitch Creator after activating embroidery mode and vice versa. The created stitch will not be transferred to the other mode.

Common Stitch Creator pop-ups

Not an editable stitch
Some stitches are not possible to insert in a sequence, for example buttonholes and four direction stitches.

Sequence out of range
Your programmed stitch can be up to approximately 500mm (20”) long. If the sequence exceeds the maximum length this pop-up will let you know.
The stitch or stitch point you are trying to add will make the sequence too long.
Embroidery preparations
Embroidery Mode - Preparations

Embroidery unit overview
(type BE15)
A Embroidery unit release button
B Level adjusting feet
C Embroidery unit accessory tray
D Embroidery unit socket
E Embroidery hoop connection assembly
F Embroidery arm
Note: A smaller embroidery unit, 260x200mm, is available to purchase at your local authorized PFAFF® dealer.

Embroidery unit accessory tray
Use the tray in the embroidery unit to store accessories used for embroidering.

Built-in designs
Over 250 designs are included in the memory in your machine.

Embroidery hoop overview
G Embroidery hoop connector
H Outer hoop
I Inner hoop
J Quick release
K Retaining screw
L Ribs for fitting the clips
M Center marks
creative vision™ Embroidery collection
Page through the creative vision™ Embroidery collection for designs and fonts.
The design number, stitch count (number of stitches in the design) and the design size are displayed next to each design. The suggested thread colors for each color number are shown.

Connect the embroidery unit
There is a covered socket behind the free-arm, see picture. The cover will open automatically when connecting the embroidery unit.
1. Slide the accessory tray off.
2. Slide the embroidery unit onto the free arm of the machine until it plugs firmly into the socket. If needed, use the level adjusting feet so that the machine and embroidery unit are even. If the machine is turned off, turn it on.
3. A pop-up tells you to clear the embroidery area and remove the hoop for positioning. Touch OK. The machine will calibrate and the embroidery arm will move to the ready position. This calibration will set your embroidery functions each time you slide on the embroidery unit.
Make sure not to calibrate the machine with the embroidery hoop attached as this can damage the needle, presser foot, hoop and/ or the embroidery unit. Be sure to clear all materials from around the machine before calibrating so that the embroidery arm does not bump into anything while calibrating.

Remove the embroidery unit
1. To store the embroidery unit in the embroidery case, move the embroidery arm to park position by selecting park position on the screen in either embroidery edit or embroidery stitch-out.
2. Press the button at the left, underneath the embroidery unit (A) and slide the unit to the left to remove it.
3. The cover of the socket closes automatically.
4. Store the embroidery unit in the original packing material, place in the soft carrying bag.
To hoop the fabric

For the best embroidery results, place a layer of stabilizer beneath the fabric. When hooping stabilizer and fabric make sure that they are smooth and securely hooped.

1. Open the quick release (A) on the outer hoop. Remove the inner hoop. Place the outer hoop on a firm flat surface with the screw on the lower right. There is a small arrow in the center of the lower edge of the hoop which will line up with a small arrow on the inner hoop.

2. Place stabilizer and the fabric, with the right sides facing up, on top of the outer hoop. Place the inner hoop on top of the fabric with the small arrow at the bottom edge.

3. Push the inner hoop firmly into the outer hoop.

4. Close the quick release. Adjust the pressure of the outer hoop by turning the retaining screw (B). The fabric should be taut in the hoop for the best results.

Note: When embroidering additional designs on the same fabric, open the quick release, move the hoop to the new position on the fabric and close the quick release. When changing type of fabric, you might need to adjust the pressure using the retaining screw. Do not force the quick release.

Slide on the hoop

Make sure that the accessory tray on the embroidery unit is closed. Slide the hoop onto the embroidery unit from front to back until it clicks into place.

The marked center point on the design should match the starting point of the needle. If minor adjustments are needed use the icons on the screen (See chapter 8).

To remove the hoop from the embroidery arm, press the grey button on the hoop connection assembly and slide the hoop towards you.
**Getting started embroidering**

1. After attaching the embroidery unit and embroidery foot, insert a bobbin with lightweight bobbin thread. 
   Note: Make sure that the IDT is disengaged.

2. Hoop a piece of fabric and slide on the hoop.

3. Open selection menu (A) to select a design. Touch it once to load to embroidery edit.

4. The machine automatically switches to embroidery edit. The design is placed in the center of the hoop.

5. Switch from embroidery edit to embroidery stitch-out by touching the embroidery toggle icon (B) on the task bar.

6. Thread the machine with the first color in the color list (C).
7. Clear sufficient space to accommodate movement of the embroidery arm and the hoop. Hold the needle thread and touch the start/stop button (D) or the foot control. The machine starts embroidering.

8. After stitching a few stitches, the machine stops and a pop-up appears on the screen asking you to cut the thread end. Cut the thread and press start/stop to continue embroidering.

9. When the first color is completed, your machine stops. A pop-up appears asking you to change color. Re-thread with the next color and continue embroidering by pressing start/stop. Each color segment is tied off at the end and the needle thread is cut.

10. When the embroidery is completed, your machine cuts the needle and bobbin thread and stops. The needle and presser foot raise automatically for easy removal of the hoop. A pop-up informs you that your embroidery is finished. Touch OK to clear your design from the screen.
Embroidery mode - edit
Embroidery edit

In embroidery edit you can adjust, combine, save, delete and restore designs. You do not need to have the embroidery unit connected to your machine to edit your designs. The loaded design(s) are shown in the embroidery field (1).

Embroidery edit - overview

1. Embroidery field
2. Zoom
3. Multi-select
4. Arrows
5. Select/deselect design
6. Total number of stitches
7. Delete
8. Duplicate
9. Group
10. Mirroring side to side
11. Mirroring end to end
12. Move design into hoop
13. Touch function - move
14. Touch function - rotate
15. Touch function - scale
16. Touch function - pan
17. Wheel
18. Wheel center icon
19. Save design
20. More options
21. Select hoop
22. Thread color edit
23. Shaping
24. Embroidery stitch editor
25. Resize

Load a design

To load a design, open the selection menu. Select designs (A) from the selection bar. Your personal designs will be shown in the menu. To load a design, just touch it on the screen and it will be loaded into embroidery edit.
**Load a font**

Text can be created both with embroidery fonts and stitch fonts. Load a font by selecting fonts (B) from the selection bar and touch your desired font on the screen.

Embroidery fonts are indicated by a pink background. The font will be loaded into embroidery text editor.

Stitch fonts are indicated by a grey background. The font will be loaded to sequencing. The text created will then be loaded into embroidery edit.

**Load a stitch**

To load a stitch, select stitches (C) from the selection bar. Select a category and then a subcategory. Touch your desired stitch on the screen to load to embroidery edit.

Note: You can also load designs, fonts and stitches from Files & Folders.

It is possible to load previously stored patchwork, single stitch and tapering programs into embroidery edit to stitch-out in the hoop.

If the stitch contains tapering, the stitch combination will be converted to an embroidery design.
**Zoom**

Use the + and - icons to zoom in or out in the embroidery field. Touch the zoom icon (A) to open a list of zoom options.

Zoom to box (B) lets you decide how much and where to zoom in the embroidery area. First, select zoom to box in the pop-up. The zoom icon starts flashing, indicating that zoom to box is active. In the embroidery field on the PFAFF® HD screen, touch and drag with your stylus to define the area to be zoomed. Zoom to box will then be deactivated.

Note: While zoom to box is active the touch functions are disabled. To deactivate zoom to box without making any selection, touch any of the touch function icons.

How much you can zoom in depends on the selected hoop.

Zoom to all (C) will show all the designs in the embroidery combination in the largest view possible.

Zoom to hoop (D) will adjust the view to show the selected hoop.
Select design(s)
When loading designs into embroidery edit, the last loaded design is selected by default. There are two ways to select another design. Either touch it on the screen or step through the designs using the arrows (4). The selected design is outlined in red.

Multi-select (3)
If you have loaded several designs and want to make adjustments to some of them, you can use multi-select. The multi-select function allows you to easily select some or all of your loaded designs. Start by touching the multi-select icon (3). A grey marking frame appears that is used as a cursor to highlight, i.e. mark, current design (A). Touch a design with the stylus once to mark it or step through the designs using the arrows (4) to change currently marked design. Touch the design once again or touch the select/deselect icon (5) to select it.

To add a design to the group of selected designs to work with, mark another design and then touch it with the stylus or touch the select/deselect design icon (5) to select.

A long touch on the multi-select icon will select all designs in the embroidery field. To remove a design from the group of selected designs, mark the design according to above and touch it with the stylus or press the select/deselect design icon (5) to deselect currently marked design.

Note: Currently marked design is shown by a grey frame (A). A selected design is shown by a red frame (B). If currently marked design is selected, it is shown by a combination of a red and grey frame around the design (C). Only selected designs will be affected by adjustments. The currently marked design will remain unchanged unless it is selected.

When several designs are loaded at the same time, the multi-select function is automatically activated and all of the loaded designs will be selected.
**Adjustments**

**Delete (7)**
When touching the delete icon, the selected design(s) will be deleted from the embroidery field. If more than one design is selected, a pop-up window will ask you to confirm the deletion. Long touch the delete icon to delete all. A pop-up window for confirmation will appear.

**Duplicate (8)**
Touch the duplicate icon to make a copy of the selected design(s). If you want more than one copy, long touch the icon and a pop-up will open where you can enter the desired number of copies.

**Group (9)**
When the group icon is touched, the selected designs on the screen will be grouped together. Adjustments made will affect all designs in the group. The order of the designs might be changed when grouping. To ungroup, just deselect the icon.

**Mirroring (10 and 11)**
To mirror a design side to side, touch icon (10) and for mirroring end to end, touch icon (11).

**Move design into hoop (12)**
This is used to move any design that is outside the hoop area into the hoop area. The design will be placed as close to the previous position as possible.
**Touch functions**

You can use your stylus to make adjustments directly on screen, by touching and dragging in the embroidery field. You can pan, move, rotate and scale, depending on which touch function is active. You can also use the arrows in the wheel (17) to fine tune.

**Move (13)**

When move is active, you can move the design(s) anywhere in the embroidery field. The numbers above the wheel show in millimeters how far the design has been moved from the center of the hoop, both horizontally and vertically. Touch the wheel center icon (18) and the design(s) will be moved to the center of the hoop.

**Rotate (14)**

When rotate is active, the selected design(s) will be rotated around the center point of the selected design(s). Use the arrows in the wheel to rotate the design(s) in one degree steps. Each touch of the wheel center icon (18) will rotate the design(s) 90 degrees clockwise. Above the wheel you can see how many degrees the design(s) has rotated from its original position.

**Scale (15)**

When scale is active, you can increase or decrease the design or a group of designs up to 20%. By default, the proportions are locked. This is shown with the closed padlock in the wheel center icon (18). To unlock, just touch the padlock. Height and width can now be changed individually. If you move the stylus on the screen towards the center of the selected design(s), the size will decrease. If you move the stylus from the center of the selected design(s), the size will increase. Use the wheel to fine tune. Note: To increase or decrease a design more than 20%, use the resize function.

**Pan (16)**

When pan is active, you can pan the embroidery field in the zoomed view.
Option bar

Save design (19)
Touch the save design icon (19) to save the design you are working with. A new window will appear where you can choose to save your design in either your personal files (A) or personal designs (B) for quick and easy access. You can also save to a connected external device (C). Touch the icons (A, B, or C) to select where to save. Touch the list view icon (D) to show the files in the current folder listed in alphabetical order. Design combinations can also be saved exactly the same way. When the combination is reloaded again, each combined part can still be edited separately.

File name
The default name will be the same as first design that was loaded. If an embroidery text or a stitch is saved, the default name will be NewDesign1.vp3, the next NewDesign2.vp3, etc. To change the name of the file, touch the re-name icon (E) and enter the name in the pop-up that will be opened. Touch OK to confirm the save. If you want to abort the save, touch cancel and you will return to embroidery edit.
More options (20)

Grid (A)
Touch the grid icon (A) to activate/deactivate a grid on the embroidery field. The grid is used as a guide when combining or placing designs. The distance between the grid lines equals 20mm. As you zoom in on the embroidery field, the distance between these lines reduces to 10mm and 5mm, indicated with lighter lines.

Background color (B)
Touch the background color icon (B) to change the active background color in the embroidery field. A window will appear where you can select from 64 different colors.

Background fabric (C)
Touch the background fabric icon (C) to activate/deactivate the background fabric. When activated a fabric texture will be shown in the embroidery field. To change the color of the fabric use the background color icon (B).

3-dimensional view (D)
Touch the 3-dimensional view icon (D) to turn on or off a 3-dimensional view of the designs in the embroidery field.
By default, the designs are displayed in 2-dimensional view in the embroidery field. In 2-dimensional view, the designs load faster on the screen and it is easier to see the color blocks in the design. The view setting remains as selected even when you turn your machine off.

Move to park position (E)
Touch the park position icon (E) to move the embroidery arm to park position for storing the embroidery unit.
The hoop must be removed first, to avoid damage.

Restore current state (F)
Touch restore current state (F) to automatically move from embroidery edit to embroidery stitch-out. When the design is reloaded, you will start to embroider where you stopped.
If any design is loaded to embroidery edit when you restore current state, it will be deleted.
Select hoop (21)
To select the correct hoop size, touch the hoop selection icon (21). A pop-up will appear with the hoop choices, including hoops that are available to purchase from your authorized PFAFF® dealer. After selecting your hoop size, the pop-up will close automatically.
Note: Hoops that can only be used with the 350x360 size embroidery unit are indicated with a darker background.

Thread color edit (22)
In thread color edit you can edit the colors in your design. Touch the thread color edit icon (22) to open.
Example (A): 1:2, RaRa 40, 2561 means the second thread color in the first loaded design is RobisonAnton 40 weight, thread number 2561.
Touch the color you want to replace in the color list. Then touch the quick color change icon (B) to open a window with 64 different color choices. Select your new color by touching it and touch OK. The window will close and your new color will be shown in the color list.

Multi-select (C) and select equal (D)
If you want to change more than one color block at a time, use the multi-select icon (C). Touch the multi-select icon to activate the function, then touch the color blocks you want to select. Long touch the multi-select icon (C) to select all color blocks in the color list. To deselect a color block, touch it in the list. Touch the multi-select icon again to deactivate the multi-select function.
Use the select equal icon (D) to automatically select all color blocks with the identical thread color(s) and the currently selected color block(s). When the select equal icon is used and more than one color block is selected, multi-select is automatically activated.
The selected color block(s) will be highlighted in the embroidery field.
**Shaping (23)**

Shaping is a unique way to use your beautiful 9mm stitches, sequences or even embroidery designs to form new shapes.

**Shaping overview**

A  Select shape  
B  Zoom  
C  Delete/ Duplicate last object  
D  Select control points  
E  Select spacing  
F  Select line positioning  
G  Select side positioning  
H  Select design angle  
I  Control points  
J  Baseline  

Note: Duplicate and delete icons are not visible when shaping an embroidery text. If shaping text, you can use embroidery text editor to adjust your text while shaping. Read more on page 8:20.

**Select shape (A)**

Select a shape by touching it in the list (A). The stitches or designs will be placed along the baseline in the order that they were loaded into embroidery edit. The stitches or designs will follow the line in the direction indicated by a small arrow in the icons in the select shape list.  

Note: When selecting a new shape, all your custom adjustments to the shape will be set to default.

**Delete/ Duplicate last object (C)**

If you want to delete the last object in the shape, touch the - icon. Only the last object in the shape will be deleted.

If you want to add a copy of the last object, use the + icon. The last object in the shape will be duplicated and the copy will be added after the last object on the baseline.

Note: If several designs are grouped before opening Shaping, the whole group will be duplicated or deleted. If there are too many objects in the shape, the baseline will be red. Enlarge the shape or delete some objects until the objects fit in the shape. The baseline will change to normal color again.
**Definition of a control point**

A control point is a point affecting the selected shape. Each shape is built by several control points. Together they define what the shape will look like. A selected control point is marked with a filled square (K). An unselected control point is marked with an outlined square (L). All control points are visible when you are editing the points. By adjusting the control points, the selected shape can be changed with unlimited possibilities.

**Select control points (D)**

Touch the select control points icon (D) to open a pop-up. For each shape, there are pre-defined sets of control points. Select all or some of the control points. When you have selected a set of control points, you can make adjustments to the shape. Use the touch functions or your stylus to move, rotate and scale your selected control points. The adjustments made will only affect the selected control points. Use the slider to increase or decrease the attraction percentage of the selected control points. The higher the attraction percentage, the closer the baseline will be to the selected control points.

**Select spacing (E)**

Touch the select spacing icon (E) to open a pop-up. The default setting spaces the objects evenly along the baseline (placing the same distance between each). You can choose left or right justification on the baseline. The gap between the objects can be increased or decreased by using the slider. The actual gap is shown above the slider in the pop-up.
Select line positioning (F)
Touch the select shape line positioning icon (F) to open a pop-up. You can choose to place the objects on the top of the baseline, or on the baseline or under the baseline. The selected positioning will affect all objects on the shape.

Select side positioning (G)
Select which side of the objects that shall be positioned on the baseline. Touch the select side positioning icon (G) to open a pop-up. You can choose to place the bottom, top, right or left side of the objects along the baseline. The selected setting will affect all objects on the actual shape.

Select design angle (H)
Decide how to align the objects on the baseline. Touch the select design angle icon (H) to toggle between objects placed parallel to the baseline or to keep the current angle. The setting affects all objects on the shape.
**Shaping - example**

1. In embroidery mode, open the selection menu and select design 052.vp3 to load to embroidery edit. Open the selection menu again and load 056.vp3. Center 056.vp3 by touching the wheel center icon when the touch function - move is active.

3. Select the clockwise circle in the list (A).

4. Select the touch function - scale. Either touch and drag on the screen, or use the arrows in the wheel to decrease the size to 57x57mm. The size is indicated just above the wheel.

5. Add six copies by touching the duplicate last (+) icon (C).

6. Close Shaping. Switch to embroidery stitch-out by touching the embroidery toggle icon. Start to embroider.
Automatic stitch building - example
1. In embroidery mode, go to sequencing and then open the selection menu. Select the decorative stitch 4.5.21.
2. Duplicate the stitch and mirror the copy side to side. Close sequencing to load to embroidery edit. Set hoop size to 360x200.

3. Open Shaping.
4. Select the line shape in the list (A).

5. Select the touch function - rotate. Touch the wheel center icon once to turn 90 degrees.
6. Add two copies by touching the duplicate last (+) icon (C).
7. Open the select spacing pop-up (E) and select left justification. This will place the objects close together. Close the pop-up.

8. Select the touch function - scale. Adjust the length of the sequence to 240mm.
9. Close Shaping. Switch to embroidery stitch-out by touching the embroidery toggle icon. Start to embroider.
Embroidery stitch editor (24)
Sequences and stitches can be adjusted in Embroidery stitch editor. You can also adjust your own created sequence or stitch, loaded to embroidery edit (see chapter 5 and 6).

Note: When a stitch or a sequence is loaded into embroidery edit, tie-offs are automatically inserted at the beginning and at the end. The tie-offs are only visible when you open the stitch or sequence in sequencing.

You can activate the grid in embroidery edit to be able to join the stitches with precision. Enter embroidery stitch editor to adjust your sequence or stitch.

Adjust stitches
Open Embroidery stitch editor to adjust the stitches. The adjustments will affect the stitch just like they do in sewing mode. If more than one sequence is inserted, you can toggle between them using the arrows (A).

Use the + and - icons to increase or decrease the stitch width (C) and stitch length (D).

Density (E) can be changed if satin stitches are inserted.

When mirroring (B), the stitch will be mirrored within its own area. It will not affect the position of the stitch like when mirroring is used in embroidery edit.

You can also use the touch functions to make adjustments. The selected stitch will be affected as if it was a design.

Note: If you make adjustments to a sequence or stitch in Embroidery stitch editor, you can still use sequencing or Stitch Creator to modify it.

When returning to embroidery edit, the sequence or stitch will be replaced by the adjusted one.
**Embroidery stitch editor - example**

1. Enter embroidery edit.
2. To create a sequence, open sequencing by touching the icon on the task bar (F). Select stitch number 4.3.30, then 4.3.17, 4.2.2, 4.3.17. Mirror the last inserted stitch end to end. Insert stitch 4.3.26, 4.3.17, 4.2.2, 4.3.17. Mirror the last inserted stitch and finally add stitch 4.3.30.
3. Close sequencing by touching the icon on the task bar. The sequence is loaded to embroidery edit.
4. Deselect the sequence by touching outside the design on the screen, or step by using the arrows.
5. Open sequencing once again. Select stitch number 4.1.2.
6. Long touch the duplicate icon. In the pop-up that appears, enter 7 and touch ok for a total of eight copies.
7. Close sequencing to load the second sequence to embroidery edit.
8. Touch the wheel center icon when move is selected, to move the new sequence to the center of the hoop. Move 7.5mm to the right.
9. Open Embroidery stitch editor (24).
10. Decrease the width of the second sequence to 8mm.
11. Toggle to the first sequence, using the arrows (A). Increase the length of the sequence to fit the second sequence, 157.0mm. Increase the density to 0.6.
12. Close Embroidery stitch editor. Select the second sequence and duplicate. Mirror side to side. Center the copy and move 7.5mm to the left of the first sequence.
Resize (25)
Resize can reduce an embroidery design up to five times smaller than the original design or increase it up to eight times larger than the original design. The machine recalculates the number of stitches in the design so that the original stitch density remains.
Note: To reduce or increase the size less than 20%, use scale touch function.

Resize adjustments
Select the design you want to resize. Open the resize window (25).
Adjust the design size by touching and dragging on the screen or by using the wheel. The size of the design is shown in millimeters above the wheel. To return to the original size, touch the wheel center icon (18).
Adjust the placement of the design in the hoop, using move (13) and rotate (14).

Retain fill type (A)
All fill areas in an embroidery design are made in a specific type to get the best effect. When enlarging or reducing a design the stitches in the fill area will be affected.
There are two ways to handle the fill type and style in the design to be resized. The default setting will not retain fill type. This is the fastest way to resize a design, however the fill areas in the design may look different than the original.
When retain fill type is selected, it will take longer to resize but the process will retain the fill types and styles within the design areas as is best for the design. If greatly enlarging a design, retain fill type is recommended for best results.

To start resizing
When you are satisfied with the design size and placement, touch OK to close the window and start resizing. An hourglass on the screen during resizing shows that it is working. When finished the resize window will close.
Touch cancel to return to embroidery edit. The resizing process will stop.
Note: Stitches and sequences cannot be resized.
**Important resize information**

Since designs are digitized for a specific design size, it is important to consider the following information about resize. Always embroider a test sample of your resized design before embroidering on a project.

- **Resize is always proportional.** If you reduce a design 30%, it will be 30% smaller in both length and width. If the design has a lot of details some of it may be lost or distorted, and/or it can be very dense. Some designs should not be reduced more than 25% if they have too many details.
- **Designs can be increased larger than the hoop,** so ensure that the design fits in the hoop. If the design is larger than hoop size, the machine will not be able to embroider it.
- **If you are enlarging a design too much,** you may see stitch irregularities. Start over and resize to a smaller percentage for a better result. Depending on the memory left in the machine, you may find some designs too complex to resize in the machine. Please use 5D™ software to resize very large and complex designs. It is available to purchase from your local authorized PFAFF® dealer.
- **When repeating resize on a design that has been resized but that has not yet been saved,** it will always go back to the original design for a new resizing. This is to ensure the best possible stitch quality. If a resized design is saved, and then resized again, it can cause stitch irregularities. For the best resize result, always start with a design in original size.
- **Depending on how much you resize a design and on how many stitches it contains,** the resize process will take a longer or shorter time. Resizing a very large or complex design may take a few minutes. Once you touch OK, you cannot cancel and you need to wait for the process to be finished.
- **It does not matter in which order you adjust the size, rotation, mirroring etc.** When you touch OK, your machine always resizes first and then adds the rotation, mirroring etc.
- **It is recommended that you scale instead of resize for changing a design less than 20%** and also for designs digitized with single or triple stitches, such as cross stitch embroideries. In this case, you do not want to add stitches to the design, you only want to make the design larger or smaller by making each original stitch larger or smaller.
Embroidery text editor

To open embroidery text editor
Embroidery text editor opens automatically when you are selecting an embroidery font in the selection menu.
You can also open embroidery text editor by adjusting an existing text already in embroidery edit. Just select the text and touch the sequencing icon (A) on the task bar.
Note: If the text is created of stitch fonts, sequencing will be opened instead of embroidery text editor.

To use embroidery text editor
Use the stylus and touch the letters you want to add to the text. The text is shown in the text area (B) with the cursor at the active letter. Use the arrows (C) to step forward and backward.
You can change the font and the size of the text by touching the change font icon (E). A preview and the name of the selected font is shown in the preview area (F).

Add a letter into a text
Use the arrows (C) to move the cursor to where you want to add a letter. Touch the letter and it will be inserted at the cursor position.

Delete a letter
To delete one letter, place the cursor after the letter to be deleted. Touch the delete icon (D). If you want to delete all the text you have written, long touch the delete icon. A pop-up will ask you to confirm the deletion.
**Change font**
You can change the font and size of the text by touching the change font icon (E). The change font pop-up will show all available embroidery fonts. You can select different sizes for each font. When changing the font, all inserted letters in the embroidery font editor window will change to the new font.

**Load a font from another location**
To load a font from personal fonts or an external device, touch the load font icon (G) at the bottom in the change font pop-up. A load dialog window will be opened for you to find the new font.

**Load text to embroidery edit**
Return to embroidery edit by deselecting sequencing on the task bar. Embroidery text editor will close and the text will be loaded into embroidery edit. If the text was an existing text, it will be placed and rotated in the same way as it was before the adjustment.

**Text spacing**
You can adjust the gap between the letters in the embroidery text when using shaping. Select the line shape and use the select spacing pop-up to adjust the gaps.
Embroidery edit pop-ups

Delete selected designs?
Your machine will ask you to confirm when you have selected to delete more than one design.

Delete all designs?
Your machine will ask you to confirm when you have selected to delete all designs or when using delete long touch.

Design is too complex
If the design is too complex, the resize process will not start when you touch OK to close the resize window. Reduce the size and try again, or use the 5D™ software. It is available to purchase from your local authorized PFAFF® dealer.

Replace file?
The first time you try to save a design with the same name as a design file that already exists, your machine will ask you to confirm this. If you keep working on the same design and save again, your machine will not ask again.

Remove hoop
This pop-up will appear when a function has been chosen that forces the embroidery unit to move outside the limits for the attached hoop. In order for the embroidery arm to move freely, remove the hoop and then touch OK. To abort the function touch Cancel.
There might not be enough disk space to save current state
If the available memory of the machine is low you might not be able to save current state while embroidering. Touch OK to continue to Embroidery Stitch-out or touch Cancel to go back to Embroidery Edit and clear some memory in Files & Folders before starting to embroider.

Exceeded maximum number of stitches
The design combination you are trying to make contains too many stitches. Your design combination can have up to approximately 500,000 stitches.

Embroidery combination is too complex
This pop-up message appears for one of the following reasons:
• The design combination contains too many color blocks.
• There are too many designs in the combination.
• One or more designs have been grouped and re-grouped too many times.
Embroidery mode - stitch-out
**To enter embroidery stitch-out**

To embroider your design(s), enter embroidery stitch-out by touching the embroidery toggle icon (A) on the task bar. The embroidery unit needs to be connected and the machine enters embroidery stitch-out. Functions used when embroidering a design are now shown.

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**Embroidery stitch-out - overview**

1. Crosshair
2. Color list and scroll bar
3. Zoom
4. Current stitch
5. Go to stitch
6. Thread tension
7. Basting
8. Color block sort
9. Touch function - pan (always active)
10. More options
11. Speed control
12. Hoop position
13. Precise Positioning
Crosshair (1)
When embroidering, a crosshair indicates current needle position on the screen.

Color list (2)
All colors in the loaded design(s) are shown in the order they will be embroidered. Each listed color shows color order and number. Also shown are the thread manufacturer, thread weight and color number. Use the scroll bar to see all of the colors in the list. To go to the next color block, just touch it in the color list.
Thread manufacturer and thread number are displayed for designs in .VP3 and .VIP-format. If changing color, some information might be lost.
Example (A): 1:2, RaRa 40, 2561 means the second thread color in the first loaded design is RobisonAnton 40 weight, thread number 2561.
To make changes to the color list, return to embroidery edit.

Zoom (3)
Use the + and - icons to zoom in or out in the embroidery field. Touch the zoom icon to open a list of zoom options.
Zoom to box (B) lets you decide how much and where to zoom in the embroidery area. First, select zoom to box in the pop-up. The zoom icon starts flashing, indicating that zoom to box is active. In the embroidery field on the PFAFF® HD screen, touch and drag with your stylus to define the area to be zoomed. Zoom to box will then be deactivated.
Note: While zoom to box is active the touch functions are disabled. To deactivate zoom to box without making any selection, touch any of the touch function icons.
How much you can zoom in depends on the selected hoop.
Zoom to all (C) will show all the designs in the embroidery combination in the largest view possible.
Zoom to hoop (D) will adjust the view to show the selected hoop.
**Embroidery information (E, F, G)**
The current stitch in the design or combination is shown next to the picture (E). The number after the slash shows the total number of stitches in the design or combination.
The current stitch in the current color block is shown next to the picture (F). The number after the slash shows the total number of stitches in the current color block.
An estimation of the embroidery time for the current color block is shown next to the picture (G).

**Current stitch (4)**
Touch + to step forward and - to step backwards stitch by stitch. Use the - icon to move backwards a few steps if the needle thread breaks or runs out. Touch and hold to move through the stitches quickly. The crosshair will follow the stitches in the embroidery field.

**Go to stitch (5)**
To move to a particular stitch in the design touch the go to stitch icon. A pop-up will appear, where you can enter the desired stitch number. Current stitch will then move to that stitch number. If the number entered is too large, current stitch will move to the last stitch in the design(s).

**Thread tension (6)**
When embroidering with specialty thread or fabric you may need to adjust the thread tension to achieve the best result. Thread tension can be adjusted up or down using the + and the -.
Basting (7)
Basting enables you to secure your fabric to a stabilizer placed under it. It is especially useful when the fabric to be embroidered cannot be hooped. Basting provides support for stretchy fabrics.

Touch the basting icon (7) to activate basting. Long touch the icon to open a window to select to add the basting stitch around the design area and/or around the hoop area.

Select baste around design and the machine will add a basting stitch around the design area, outlining the area where the design will be placed on the fabric. Select baste around hoop area to add a basting stitch close to the inner edge of the hoop.

The baste stitches will be added as the first separate color block(s) at the beginning of the color list. You can step stitch by stitch and step in and out of the baste color block(s).

Note: Basting can only be enabled while on the first stitch in the embroidery.

Color block sort (8)
To sort the color blocks before embroidering, just touch the color block sort icon. The color block sort will reduce the number of thread color changes. If any color overlaps, the color order will remain the same, even after sorting. The function will also recognize if a turnable hoop is used. The two sides will be sorted individually.

The number of color blocks will not change, i.e. the blocks with the same color will not be merged to one block. To merge the color blocks and sew without stopping between the blocks, use the color merge function, found in more options.

Note: The color block sort icon is disabled when you start to embroider.

Pan (9)
In embroidery stitch-out, the pan function is always active. Use the stylus to pan on screen.
Option bar

More options (10)

Background color (A)
Touch the background color icon (A) to change the active background color in the embroidery field. A window will appear where you can select from 64 different colors.

Background fabric (B)
Touch the background fabric icon (B) to activate/deactivate the background fabric. When activated, a fabric texture will be shown in the embroidery field. To change the color of the fabric, use the background color icon (A).

Monochrome (C)
Touch the icon to activate monochrome embroidery. All designs are shown in a grey color and the machine does not stop for color block changes. To deactivate monochrome embroidery, touch the icon again.

Color merge (D)
If you want the machine to ignore the stop between identical thread colors, e.g. after having used color block sort, touch the color merge icon.

Full screen (E)
To see your design as large as possible, use the full screen function. The embroidery will fill the whole screen. To close, touch the screen once.

3-dimensional view (F)
Touch the 3-dimensional view icon (F) to turn on or off a 3-dimensional view of the designs in the embroidery field.
By default, the designs are displayed in 2-dimensional view in the embroidery field. In 2-dimensional view, the designs load faster on the screen and it is easier to see the color blocks in the design. The view setting remains as selected even when you turn your machine off.

Save current state (G)
If you want to stop embroidering and save your current position, touch Start/Stop to stop the embroidery. Then touch the save current state icon to save the current position. You can now turn the machine off.
When saving current state, all your adjustments are stored and you can continue to embroidery later. A current state is saved until you replace it.
Note: If you have chosen AutoSave current state in the Settings menu, this icon will be disabled, and current state is stored periodically.
**Speed control (11)**
This function enables you to easily reduce the maximum embroidery speed. Just touch the speed control icon to reduce the speed. To return to normal speed, deselect the icon.
You can change the set speed limit. Long touch the speed control icon to get a pop-up. Set the speed limit you would like by sliding the button right or left and then close the pop-up. The next time you touch the speed control icon, the speed will be reduced to the limit you have chosen.
You can embroider without closing the pop-up.
Note: If selecting the highest speed in the slider, it is like choosing no speed limit at all. The icon in the option bar will then be deselected and the speed limit will be set to default.

**Hoop position (12)**
Use the hoop position functions to move the hoop to different positions.

**Current position**
When you want to return to the current stitch and start embroidering again where the embroidery was interrupted, touch the current position icon.
You can also press the start/stop button once to return to the current stitch and start to embroider.

**Park position**
When you have finished your embroidery, remove the hoop and select park position. The embroidery arm will be placed in a position that will allow easy storage.
Use the park position when you need to have a free sewing space with the embroidery arm out of the way.
Note: It is very important that the hoop is removed, otherwise it may be damaged.

**Bobbin position**
To make it easier to change the bobbin, touch bobbin position. The hoop will move backwards, allowing you to open the bobbin cover and replace the bobbin.

**Cut position**
Cut position will move the hoop towards you making it easier to cut jump stitches and trim fabric when embroidering an appliqué.

**Center position**
Use the center position if you want to check where the center position of the hoop will be placed on the fabric.
Precise positioning (13)
Precise positioning allows you to place a design on an exact spot on your fabric. It is also used when you want to embroider a design next to a previously embroidered design. Use zoom and pan to be sure that you are placing the design exactly where you want it. Fine tune with the wheel.

Precise positioning - overview
A Locking point
B Position hoop
C Matching point
D Rotate design
E Touch function - move
F Touch function - rotate
G Touch function - pan
H Wheel
I Orbiting - to check corners
J Zoom to needle

To select locking point and position hoop
Select locking point (A). Place the red crosshair where you would like the locking point to be in your embroidery. Next activate (B), position hoop. The red crosshair will be locked on the screen, changing color from red to blue with a ring around the center of the locking point. Now you can place the design exactly where you want it on the fabric by using the stylus or the wheel. Use the arrows to get the design placed precisely where you want it. The position of the needle will show where the locking point will be placed on the fabric.

To select matching point and rotate design
You have the ability to check a second position within the design to make sure your design is lined up properly and make further adjustments if necessary. Activate (C), matching point. A second crosshair will appear, the matching point. Place it at the point where you would like another part of the design to connect. The hoop will move, following the matching point. To line up the design where you want it, activate (D), rotate design. To move the matching point to the right place on the fabric, the rotate function will automatically be selected. Use the stylus or wheel to rotate the design on the screen around the locking point, kept in position. The rotated design will connect with the previously embroidered design.
Orbiting - to check corners
Orbiting can be used to trace the design field by touching each of the four corner icons. You can find the center of the design again by touching the centering icon.
The orbit function will also swiftly move the crosshair to the selected position when doing precise positioning.
Use the corner icons to set the connecting point for precise positioning in a corner of the design. This is the easiest and most precise way since the connecting point will be automatically placed exactly in the corner. This is useful when positioning a design on a patterned fabric.
The orbiting icons may be used when either locking point or matching point is selected. When touching an orbiting icon, the selected point will automatically be set to the corresponding orbiting position, i.e. at a corner or at the center of the embroidery.
E.g. when choosing the upper left orbiting icon, the connecting point will be set at the upper left corner in the outer line of the designs. After this, you can continue and make your own adjustments on the connecting point.

Zoom to needle (J)
Precise positioning is easy to use with the new zoom to needle option. Touch the zoom to needle icon (J) to pan to the current needle position and zoom in as much as possible on the screen. You can position the locking and matching point exactly where you want them.

Disable needle warning (K)
Check allow lower needle icon (K) to temporarily allow the needle to be in a lower position while moving the hoop. The needle can then remain close to the fabric when using precise positioning. Just make sure the needle is above the fabric to prevent damage to the needle and fabric.
Note: The warning cannot be disabled when the needle is below the stitch plate.
**Precise positioning - example**

When adding one design to one previously embroidered, precise positioning is very useful.

1. Choose one of the corners to be the locking point (A). Either move the locking point using touch function - move on the screen or the wheel.

2. Select the next function, position hoop (B), to move the locking point to the right position in the hoop. Move the locking point to the upper left corner of the embroidered design. Use the touch function - move. Check that the needle is at the exact position. If satisfied, close precise positioning and start embroidering.

3. To line up the design on the screen with the previously embroidered, select matching point (C) to be the corner. Use the touch function - move or the orbiting icons.

4. Select the next function, rotate design (D) to move the matching point to the right position in the hoop. Use the touch function - rotate to line up the designs. Check that the needle is at the exact position.

5. Close precise positioning and start embroidering.
Common embroidery stitch-out pop-ups

Embroidery unit calibration
When the embroidery unit is attached, a pop-up asks you to slide off the hoop and clear the machine area for calibrating the embroidery arm. You will also be reminded to snap on the embroidery presser foot 6A.

Note: It is very important to remove the hoop, otherwise the hoop or the embroidery unit may be damaged while calibrating.

Attach correct hoop
If the size of the hoop attached to the machine does not match the size displayed on screen, the machine will not embroider. You must change the hoop to the displayed size or change the hoop setting to the hoop size attached.

To change hoop settings, re-enter embroidery edit and go to select hoop.

Bobbin empty
When the bobbin is almost empty, the machine stops automatically and a pop-up appears on the screen.

Note: It is possible to embroider until the thread has completely run out. Press the start/stop button to continue embroidering without closing the bobbin empty pop-up.

Close the pop-up. Replace the empty bobbin with a full one. Pull back excess needle thread and move a few stitches backwards using the current stitch icons (3). Start embroidering again by pressing the start/stop button or the foot control.

Note: Use the bobbin position to get easier access to the bobbin. When the bobbin is replaced, touch current position to move the hoop back to where the embroidery stopped.

Check needle thread
The machine stops automatically if the needle thread runs out or breaks. Re-thread the needle thread, close the pop-up, step back a few stitches and start embroidering again.
Change thread color
When it is time to change the needle thread, the machine stops and the upper thread is cut. Change the spool and re-thread the machine. The next recommended color is shown in the pop-up.

Cut thread end
After changing the thread, the machine will sew a few stitches and then stop so you can cut the thread end.

Embroidery is finished - clear screen
When the embroidery is finished, the machine will ask you if you want to clear the screen. If you touch OK, the designs will be deleted. Touch cancel to get back to your design.
Files & Folders
Files & Folders - overview

Parts of the selection bar
1. Stitches
2. Fonts
3. Designs
4. Files & Folders
5. Quick help

Parts of Files & Folders
6. Load file
7. Close and return to previous view
8. Search path
9. Move up one folder level
10. List view
11. Selection area
12. Scroll bar
13. “Personal files” folder
14. “Personal fonts” folder
15. “Personal designs” folder
16. External devices (only visible when a device is connected)
17. Create new folder
18. Rename file or folder
19. Cut
20. Copy
21. Paste
22. Delete
23. File name of selected file

Files & Folders is used to organize, add, move, remove and copy all your designs, fonts and stitch files. Use either built-in memory or an external device connected to your machine for storing. While loading the files to the selection area a default icon is shown in the meantime.

File formats
Your machine can load the following file formats:
- .SHV, .DHV, .VP3, .VIP, .HUS, .PEC, .PES, .PCS, .XXX, .SEW, .JEF, .EXP, .10* and .DST (embroidery files)
- .SPX (stitch files)
- .SFX (stitch font files)
- .VF3 (embroidery font files)
- .WAV (sound files)
- .TXT and .HTM/HTML-files

Note: If the file type or file version is not supported by your machine, or the file is damaged, it is shown in the selection area as an unrecognized file.
Available memory
The built-in memory can store designs, fonts, stitches and other files. To check how much memory is still available in the built-in memory, touch Quick help (5) and then touch either Personal files (13), Personal fonts (14) or Personal designs (15). A pop-up shows how much memory is available.

Browse Files & Folders
To open Files & Folders, open selection menu from the task bar. Select Files & Folders (4) in the selection bar at the bottom.
Within the built-in memory there are three folders: Personal files (13), Personal fonts (14) and Personal designs (15). You can also explore external devices (16) connected to the USB-ports. The external device folder icon (16) is only available when a device is connected.
Touch any of these to display their contents in the selection area. The path of the shown folder is written in the search path field (8). Design files are displayed as thumbnail images or with an icon.

List view (10)
Touch the list view icon (10) to show the files in the current folder listed in alphabetical order. Each file, file name and type will be displayed. Touch the list view icon again to switch back to thumbnail view.

Personal files (13)
Fill Personal files (13) with designs, fonts, your customized designs, stitch programs, text files or any file that you want to store.
Arrange your Personal files so that you can find your favorites easily.

Personal fonts (14)
Store embroidery font files and stitch font files in Personal fonts (14). The fonts are shown both in fonts (2) and in shortcut to Personal fonts (14). You cannot create folders in the Personal fonts folder.
**Personal designs (15)**
Store design files in Personal designs (15). You cannot create folders in the Personal designs folder. Designs that come with your machine are shown both in designs (3) and in shortcut to Personal designs (15).

**External Device (16)**
The external device icon is only active when a device is connected to the USB port. Touch external Device (16) to display all connected devices. You can have your computer and another device such as a PFAFF® USB embroidery stick connected at the same time. Touch either of the devices to explore.

<table>
<thead>
<tr>
<th>Device</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB Embroidery stick</td>
<td>Use to store files and/or move files to and from your computer. Load designs or other files directly from your computer. Store all file types here.</td>
</tr>
<tr>
<td>Computer</td>
<td></td>
</tr>
<tr>
<td>CD-drive</td>
<td>Load or copy files from a CD</td>
</tr>
</tbody>
</table>
Load a file
To load a file, touch load (6) or long touch the file. It will be loaded to the appropriate window.

Open a folder
To open a folder in Files & Folders, long touch the folder. The content of the folder will be displayed in the center window.

Move up one folder level (9)
Use the move up one folder level icon to step up through the levels of folders. You can step up all the way to the root level. In the center window you will see included files and folders for each level as you step.

Folder structure (8)
Touch the area of the search path field (8) to open a drop down window that shows the folder levels down to the current folder. Work your way back through the levels by touching a folder at another level. Also use this icon to switch between external devices such as your computer or USB embroidery stick.
Organize

Create a new folder (17)
Touch the create new folder icon (17) to create a new folder. A pop-up opens where you can enter a name for your folder.

Rename a file or folder (18)
To change the name of a folder, touch the folder then touch the rename icon. A pop-up opens where you can enter the new name.

Move a file or folder
Use cut (19) and paste (21) to move a file or folder to another place.
Select the file or folder, then touch cut. Open the folder where you want to place the file or folder. Touch paste. The file or folder is now stored here and is removed from the folder where it was cut from.

Copy a file or folder
Use copy (20) and paste (21) to copy a file or folder to another place.
Select the file or folder, then touch copy. Open the folder where you want to place the file or folder. Touch paste. The file or folder is now stored here and the original file or folder is also stored in the folder where you copied it from.

Delete a file or folder (22)
To delete a file or folder, mark it and touch delete (22). A pop-up asks you to confirm the deletion.
If a folder is deleted, all files within the folder are deleted as well.
To delete all files and folders in the current folder, long touch the delete button.
Common Files & Folders pop-ups

Audio preview application
You can listen to a sound when browsing Files & Folders. Sound files can be saved in Personal files. When selecting a sound file in Files & Folders, it will open in the audio preview application. Touch the start icon to play the sound.

Note: You can only play PCM encoded WAVE-files. For optimal result the file should be 8-bit mono. The machine will not support compressed sound files.

Delete file or folder
Your machine will always ask you to confirm when you have selected to delete a file or folder. This prevents you from deleting anything by mistake.

Could not delete file or folder
You cannot delete files or folders from CDs or from other write protected media.

The folder already exists
You cannot create a new folder with the same name as another folder on the same level. Create your folder elsewhere or enter a different name for the folder.

Available disk space low
Your machine can store files in the built-in memory. When the memory is full, you can move them to an external device by using the cut and paste functions. When only 15% of the available memory is left, your machine will alert you once. If you continue to fill the memory, it will not remind you again, until the memory is completely full.
**System busy**
When the machine is loading, saving, moving files or anything that takes time, an hour glass is shown.

**Invalid file type for this folder**
Only designs can be stored in Personal designs, and only font files can be stored in Personal fonts. Select the proper folder to store in.

**Defragmentation**
To optimize the sewing machines performance you sometimes need to do a defragmentation. When that needs to be done a pop-up message appears. To defragment your machine first remove unnecessary files then go to the Machine Settings in the Settings menu and select Defragment user disc. The defragmentation can take up to 45 minutes to perform.
Maintenance
Cleaning the machine
To keep your sewing machine operating well, clean it often. No lubrication (oiling) is needed.
Wipe the exterior surface of your machine with a soft cloth to remove any dust or lint built up.
Note: Use of cleaners or solvents on the machine can cause damage to the plexifront. Clean only with a soft dry cloth.
Wipe the PFAFF® HD screen with a clean, soft and damp cloth.

Cleaning the bobbin area
Note: Lower the feed dogs by pressing presser foot up and extra lift. Turn off the machine.
Remove the presser foot and slide off the bobbin cover. Place the screwdriver under the stitch plate as shown on the picture and gently turn the screwdriver to pop off the stitch plate. Clean the feed dogs with the brush found with the accessories.

Cleaning under the bobbin area
Clean the area under the bobbin case after sewing several projects or any time you notice an accumulation of lint in the bobbin case area.
Remove the bobbin case holder (A) covering the front part of the bobbin case by lifting it up.
Remove the bobbin case (B) by lifting it up. Clean with the brush.
Note: Use caution when cleaning around the thread snips knife.
Put the bobbin case and the bobbin case holder back in place.
Note: Do not blow air into the bobbin case area. The dust and lint will be blown into your machine.
Note: When using the optional accessory PFAFF® Embroidery Cutwork Needles, it is necessary to clean the bobbin area after each embroidered design/project.

Replacing the stitch plate
With feed dogs lowered, place the stitch plate with the knob fitting into the notch at the back (C). Press the stitch plate down until it clicks into place. Slide on bobbin cover.
# Troubleshooting

In this troubleshooting guide you will find solutions to the problems you may have with your machine. For further information please contact your local authorized PFAFF® dealer who will be happy to help you.

<table>
<thead>
<tr>
<th>Problem/cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General problems</strong></td>
<td></td>
</tr>
<tr>
<td>Bobbin alarm does not work?</td>
<td>Clean lint from bobbin area and use only the original PFAFF® bobbins approved for this model.</td>
</tr>
<tr>
<td>Thread snips does not cut the thread?</td>
<td>Remove stitch plate and clean lint from bobbin area. Enable automatic thread snips in the Settings menu.</td>
</tr>
<tr>
<td>Fabric does not move?</td>
<td>Make sure that machine is not set in free-motion mode in the Settings menu.</td>
</tr>
<tr>
<td>Wrong stitch, irregular or narrow stitch?</td>
<td>Deactivate twin needle or stitch width safety in the Settings menu.</td>
</tr>
<tr>
<td>The needle breaks?</td>
<td>Insert needle correctly as described in chapter 2.</td>
</tr>
<tr>
<td>The machine will not sew?</td>
<td>Check that all plugs are securely plugged into the machine and into the wall socket. Push bobbin winder lever to sewing position.</td>
</tr>
<tr>
<td>The PFAFF® HD screen is turned off?</td>
<td>Touch the screen to activate. Turn off screen saver in the Settings menu.</td>
</tr>
<tr>
<td>Icons on the screen are not activated when touched?</td>
<td>Calibrate the screen. Calibrate is found in the Settings menu.</td>
</tr>
<tr>
<td>The sewing and embroidery machine screen and/or function buttons do not respond to touch?</td>
<td>The sockets and function buttons on the machine can be sensitive to static electricity. If the screen does not respond to touch, turn the machine OFF and then ON again. If the problem persists, contact your authorized PFAFF® dealer.</td>
</tr>
</tbody>
</table>

## The machine skips stitches

| Did you insert the needle properly? | Insert needle correctly as described in chapter 2. |
| Did you insert a wrong needle? | Use needle system 130/ 705 H. |
| Is the needle bent or blunt? | Insert a new needle. |
| Did you thread the machine properly? | Check how the machine is threaded. |
| Is the correct presser foot used? | Attach correct presser foot. |
| Is the needle too small for the thread? | Change the needle. |
| Is the fabric moving up and down with the needle when free-motion sewing or embroidering? | Reduce the presser foot height in the Settings menu. |

## Needle thread breaks

<p>| Did you insert the needle properly? | Insert needle correctly as described in chapter 2. |
| Did you insert a wrong needle? | Use needle system 130/ 705 H. |
| Is the needle bent or blunt? | Insert a new needle. |
| Did you thread the machine properly? | Check how the machine is threaded. |
| Is the needle too small for the thread? | Change the needle to the proper size for the thread. |
| Are you using poor thread with slubs or thread which has become dry? | Change to a new higher quality thread purchased from an authorized PFAFF® dealer. |</p>
<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is a correct spool cap used?</td>
<td>Attach a spool cap of the right size for the actual thread spool.</td>
</tr>
<tr>
<td>Is the best spool pin position used?</td>
<td>Try a different spool pin position (vertical or horizontal).</td>
</tr>
<tr>
<td>Is the stitch plate hole damaged?</td>
<td>Change the stitch plate.</td>
</tr>
</tbody>
</table>

**Bobbin thread breaks**

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did you insert the bobbin properly?</td>
<td>Check the bobbin thread.</td>
</tr>
<tr>
<td>Is the stitch plate hole damaged?</td>
<td>Change the stitch plate.</td>
</tr>
<tr>
<td>Is the bobbin area full of lint?</td>
<td>Clean lint from bobbin area and use only the original PFAFF® bobbins approved for this model.</td>
</tr>
<tr>
<td>Is the bobbin wound correctly?</td>
<td>Wind a new bobbin.</td>
</tr>
</tbody>
</table>

**The seam has uneven stitches**

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the thread tension correct?</td>
<td>Check needle thread tension and the threading.</td>
</tr>
<tr>
<td>Are you using too thick or slubbed thread?</td>
<td>Change the thread.</td>
</tr>
<tr>
<td>Is the bobbin thread evenly wound?</td>
<td>Check bobbin winding.</td>
</tr>
<tr>
<td>Is a correct needle used?</td>
<td>Insert a proper needle correctly as described in chapter 2.</td>
</tr>
</tbody>
</table>

**The machine does not feed or feeds irregularly**

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did you thread the machine properly?</td>
<td>Check how the machine is threaded.</td>
</tr>
<tr>
<td>Has sewing lint collected between the feed dogs?</td>
<td>Remove the stitch plate and clean the feed dogs with a brush.</td>
</tr>
</tbody>
</table>

**Thread loops are forming on the underside of the embroidery design**

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Has the embroidery built up too much to move freely under the presser foot?</td>
<td>Increase the presser foot height in the Settings menu in small steps until problem is solved.</td>
</tr>
</tbody>
</table>

**The embroidery design is distorted**

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the fabric hooped properly?</td>
<td>The fabric must be tightly hooped.</td>
</tr>
<tr>
<td>Is the inner embroidery hoop completely inserted in the outer embroidery hoop?</td>
<td>Hoop the fabric in such a way that the inner hoop always exactly matches the outer hoop.</td>
</tr>
</tbody>
</table>

**The embroidery design has puckered**

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did you stabilize your fabric sufficiently?</td>
<td>Ensure you use the proper stabilizer for your technique or fabric type.</td>
</tr>
</tbody>
</table>

**The machine will not embroider**

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is the embroidery unit attached?</td>
<td>Make sure that the embroidery unit is properly attached into the socket.</td>
</tr>
<tr>
<td>Is the wrong hoop attached?</td>
<td>Slide on the correct hoop.</td>
</tr>
</tbody>
</table>

---

**Have your sewing machine serviced regularly by your local authorized PFAFF® dealer!**

If you have followed this troubleshooting information and still have problems, take your sewing machine to your dealer. If there is a specific problem, it is a great help to test sew with your thread on a scrap of your sewing fabric and bring it to your dealer. A sewing sample will often give much better information than words.

**Non-original parts and accessories**

The warranty does not cover any defect or damage caused by use of non-original accessories or parts.
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5D™ Embroidery Machine Communication CD
(For personal computer. See page 2:13)