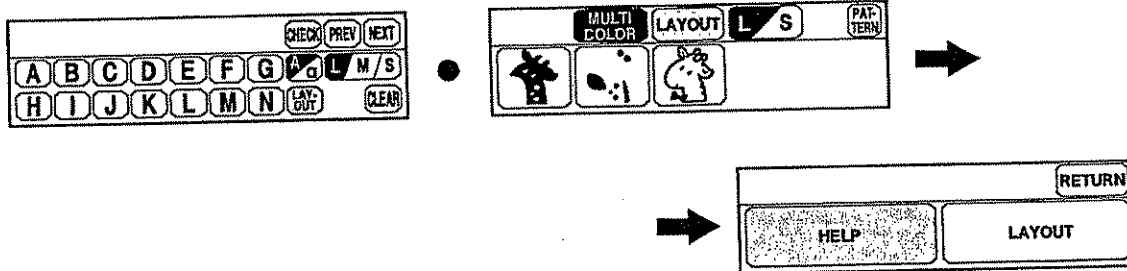


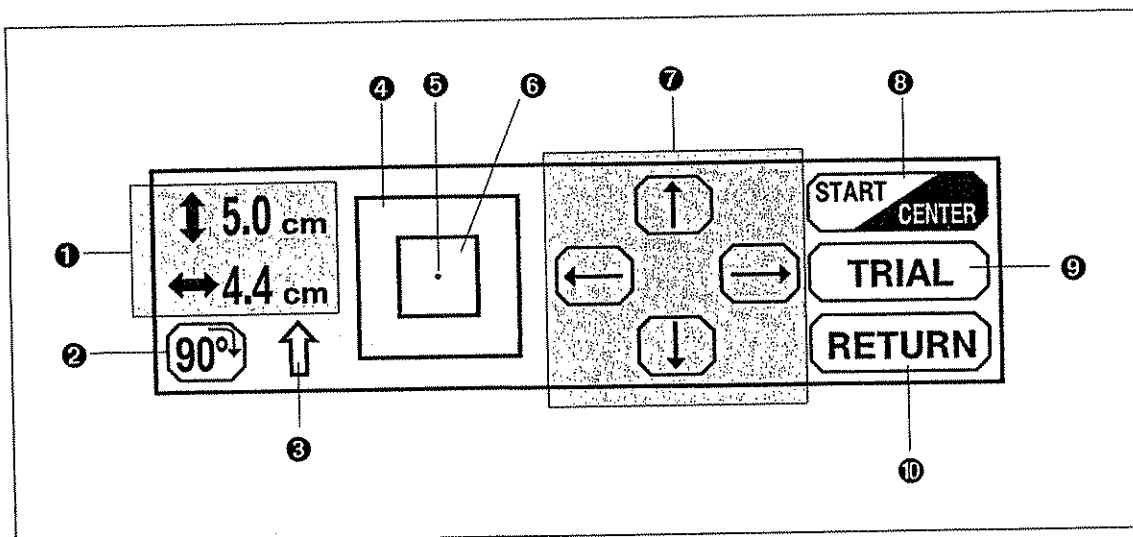
MOVING THE POSITION (LAYOUT)



The position for embroidering the pattern can be changed by touching "LAYOUT". This is useful if you want to embroider a pattern somewhere such as in the corner of the fabric or you want to align a pattern away from the center of embroidery area of the frame.

- * Moving the position of embroidering can be done on any of the functions on this machine including characters, frame patterns, built-in pattern (one point mark) and memory card designs. The process is the same for all these patterns.

It is important that before beginning a new pattern or moving to a new position that you cut the upper thread. If you change the embroidery pattern without cutting the upper thread the tension may become loose causing the thread to break or become tangled on the reverse side of the fabric. To avoid these problems, first cut the upper thread, select and position a pattern, hold the cut thread end and then press the "START/STOP" button to start the machine. (Refer to page 28.)



- ① Indicates the current pattern size.

Note:

Characters and patterns may sometimes be displayed in slightly larger than actual size.

- ② "90° clockwise" Touch this key to rotate the selected pattern in 90° steps.
- ③ Indicates the current pattern direction.
- ④ Indicates the area which can be embroidered.
- ⑤ Indicates the current center needle drop position.
- ⑥ Indicates the embroidering position and embroidering area for the current pattern and size selected.

- ⑦ "Up" "Right" "Down" "Left" arrow keys
Touch these keys to move the embroidering position within the embroidery area.
- ⑧ "START/CENTER" Touch this key to change the needle alignment position to the center or the starting position of the design.
- ⑨ "TRIAL" With the frame and fabric in place touch this key to check the design position in the frame before actually embroidering.
- ⑩ "RETURN" Touch this key to return to the previous screen so that embroidery can begin.

Changing the embroidering position

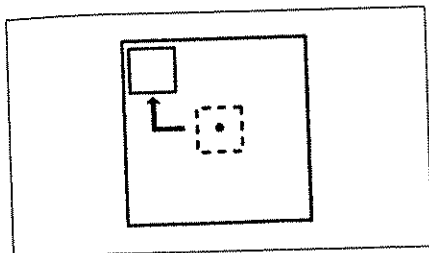


Touch the "Up", "Right", "Down" or "Left" arrow key to move the embroidering position within the frame.

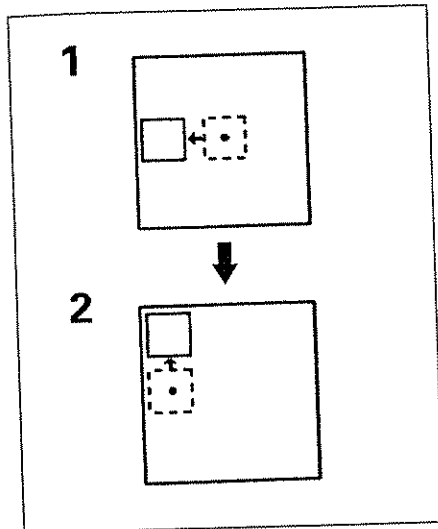
* Do not lower the needle. Use the hole of the presser foot as a guide instead.

- ① Up
- ② Down
- ③ Left
- ④ Right

Example: To move the embroidering position to the upper left corner



1. Touch the "Left" arrow key.

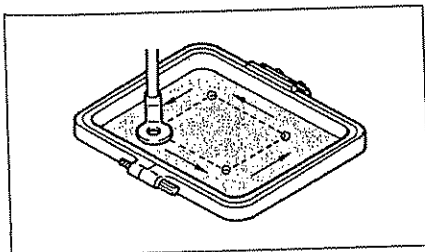


2. Touch the "Up" arrow key.

* The embroidering position or area display can be moved by touching the corresponding arrow key. If the arrow key is touched once, the frame and display will move one step; if the key is touched continuously, the frame and display will move continuously.

Checking the embroidering area

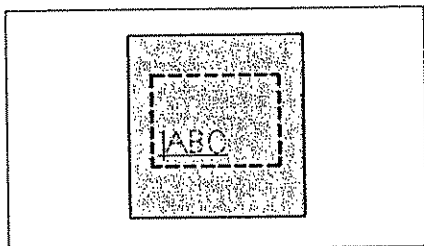
TRIAL



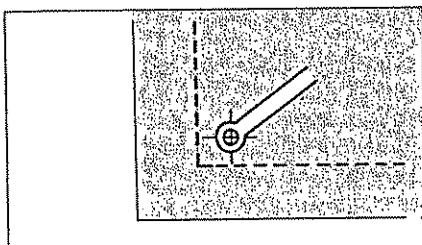
If "TRIAL" is touched, the embroidery frame will move and the presser foot will trace the embroidering area to be used for the currently selected pattern and size.

* Do not lower the needle. Use the hole of the presser foot as a guide instead.

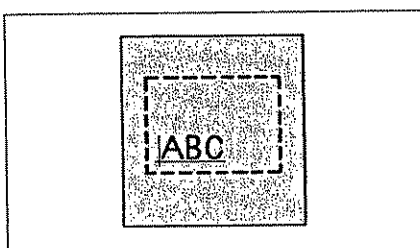
Embroidering from a specific starting point



1. Make a mark at the starting position on the fabric in the frame as shown in the illustration. The mark cannot be too close to the edge of the frame as the presser foot prevents the needle from getting very close to the frame.

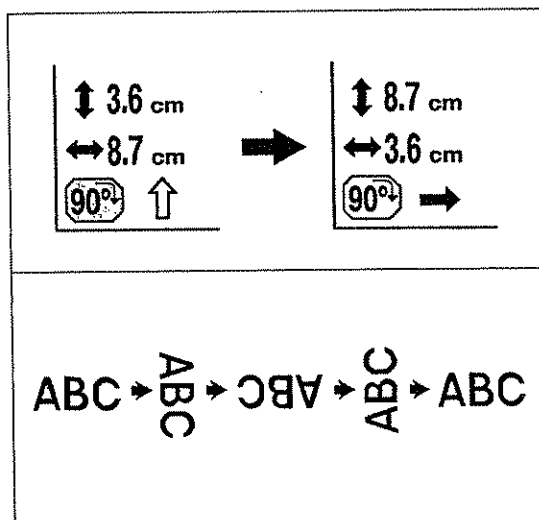


2. Touch "START/CENTER" to select "START" and then touch the "Up", "Right", "Down" or "Left" arrow key to align the hole of the presser foot with the mark.



3. Embroider the pattern.

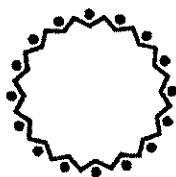
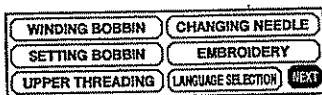
Changing the pattern direction



The pattern will be rotated clockwise in 90° steps as shown in the illustration at left each time "90° clockwise" is touched.

MAKING FRAME PATTERNS

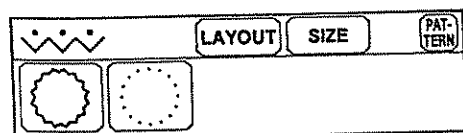
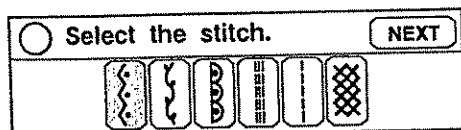
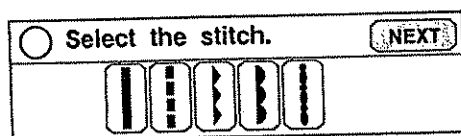
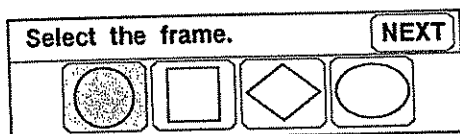
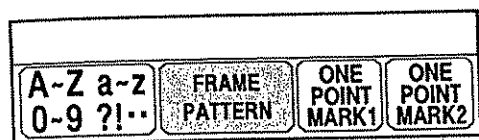
Frame patterns



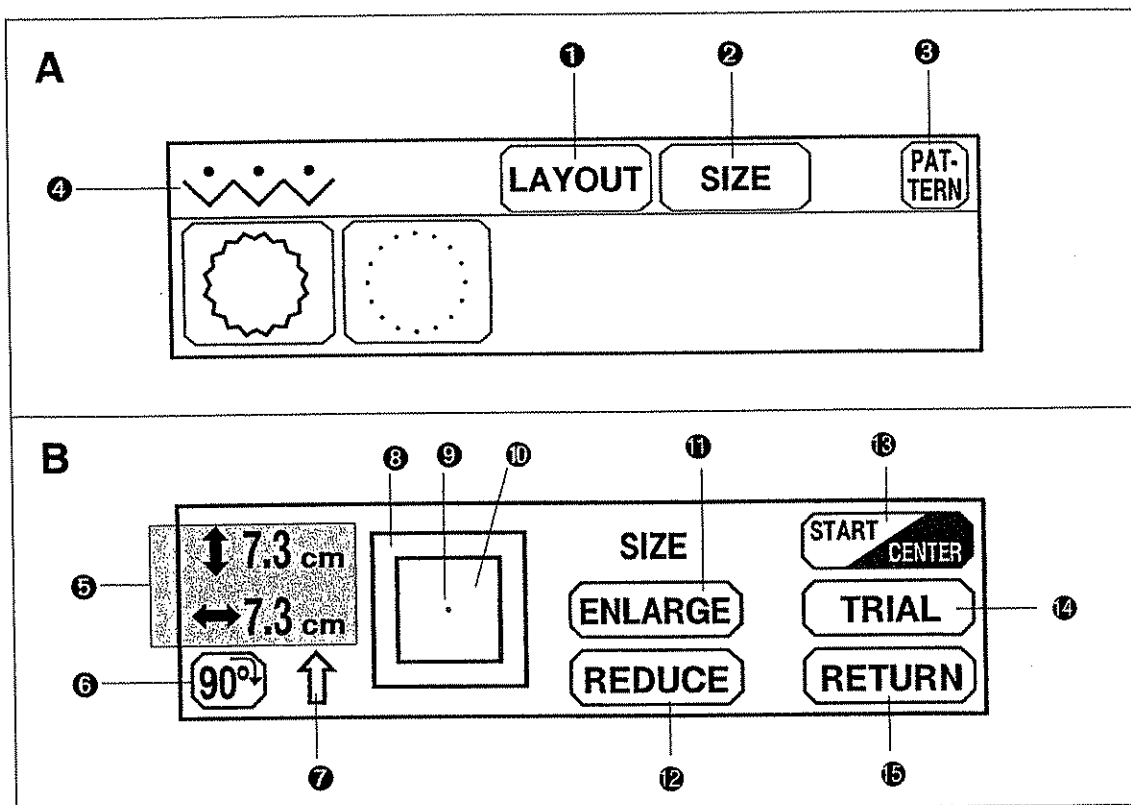
- * Frame patterns are created by combining the desired frame and type of stitch.

Example

1. Touch "FRAME PATTERN".
2. Select the desired shape for the frame.
3. Touch "NEXT".
4. Select the desired type of stitch to form the frame.
5. The combined pattern is then shown on the LCD screen.



The selected pattern can be changed with the options shown on screen B.



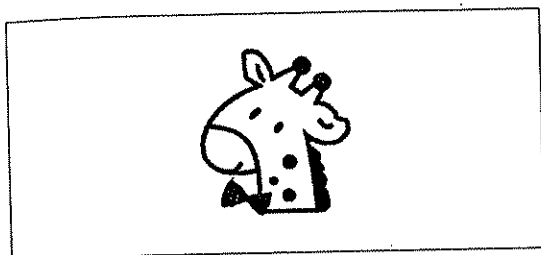
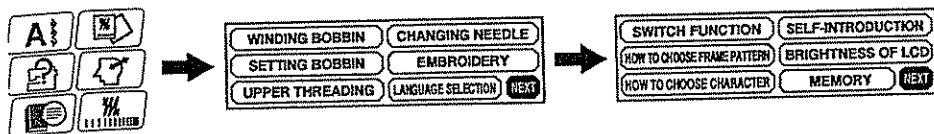
A

- ① "LAYOUT" Touch this key to move the position of the pattern. (Refer to page 34)
- ② "SIZE" Touch this key to increase or reduce the size of the frame pattern.
- ③ "PATTERN" Touch this key to return to the pattern selection screen.
- ④ Stitch selected for the frame pattern.

B. Touch the "SIZE" key to display screen B.

- ⑤ Indicates the current pattern size.
- Note:
Characters and patterns may sometimes be displayed in slightly larger than actual size.
- ⑥ "90° clockwise" Touch this key to rotate the selected pattern in 90° steps.
- ⑦ Indicates the current pattern direction.
- ⑧ Indicates the area which can be embroidered.
- ⑨ Indicates the current needle drop position.
- ⑩ Indicates the embroidering position and embroidering area for the pattern and size selected.
- ⑪ "ENLARGE" Touch this key to enlarge the size of the pattern.
- ⑫ "REDUCE" Touch this key to reduce the size of the pattern.
- ⑬ "START/CENTER" Touch this key to change the needle alignment position to the center or the starting position of the design.
- ⑭ "TRIAL" With the frame and fabric in place touch this key to check the design position in the frame before actually embroidering.
- ⑮ "RETURN" Touch this key to return to the previous screen to begin embroidery or to select another frame pattern.

Built-in embroidery patterns (One point mark)



Example

1. Touch "ONE POINT MARK 1".

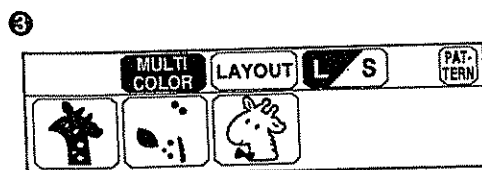
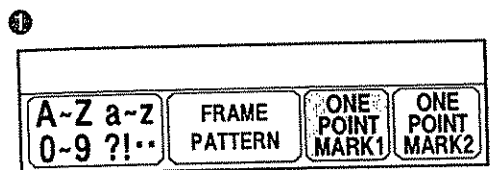
① Screen 1

2. Select the desired pattern to be embroidered.
(Example: Touch the giraffe)

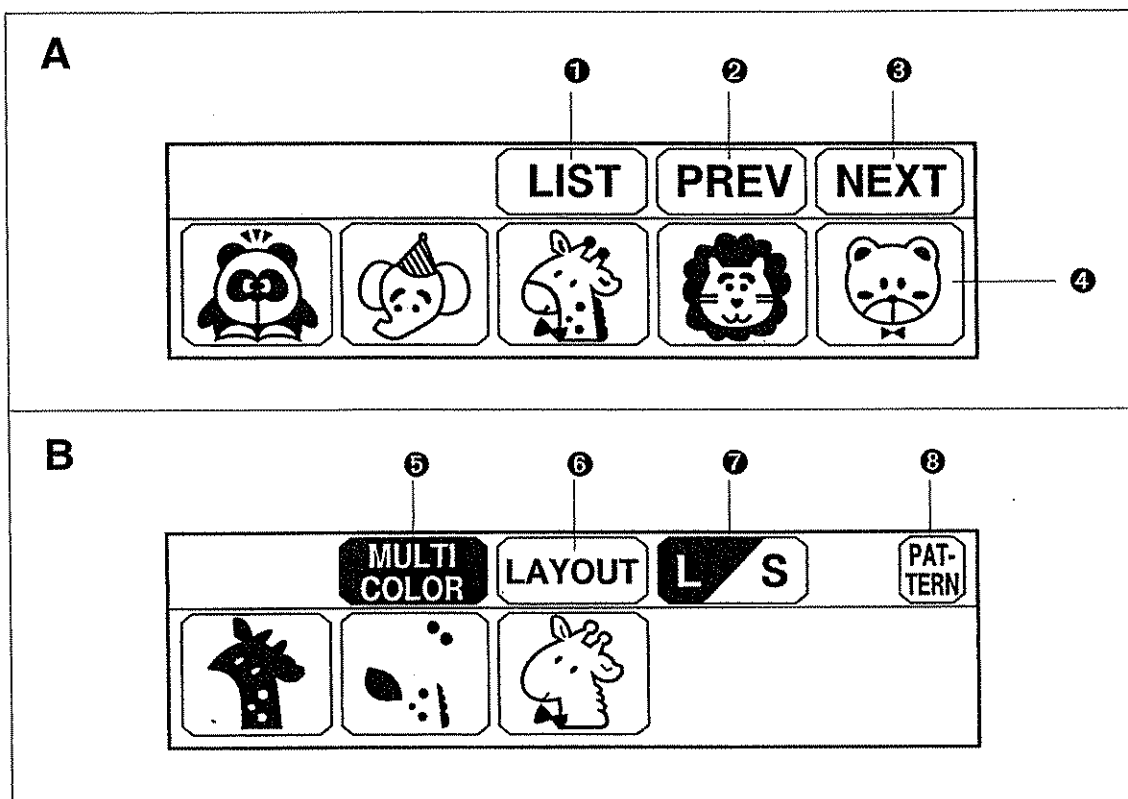
② Screen 2

3. The pattern is now selected.

③ Screen 3



These selected patterns can be changed with the options shown on screen B.



A. Screen 2

- ① "LIST" Touch this key to display all available patterns on the screen. You can then select the desired pattern by touching it.
- ② "PREV" Touch this key to return to the previous pattern screen.
- ③ "NEXT" Touch this key to move to the next pattern screen.
- ④ One point mark pattern selection keys

B. Screen 3 (After one point mark design has been selected)

Once one of the one point marks is selected, a screen like "B" above will be displayed.

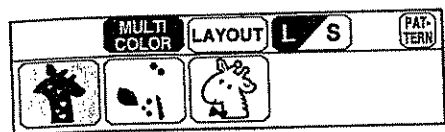
- ⑤ "MULTI COLOR" Touch this key to switch between the multi color mode and self-color mode. (It is not possible to change the color mode of patterns, if "MULTI COLOR" is not displayed on the screen.)
- ⑥ "LAYOUT" Touch this key to change the position of the pattern. (Refer to page 34)
- ⑦ "L/S" Touch this key to change the size of the pattern. (It is not possible to change the size of patterns if "L/S" is not displayed on the screen.)
- ⑧ "PATTERN" Touch this key to return to the pattern selection screen.

* If using an embroidery card, the "MULTI COLOR" and "L/S" functions may not be available for some patterns on the card.

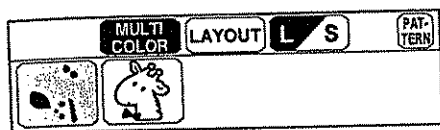
SEWING A BASIC EMBROIDERY PATTERN

Embroidering multi-color patterns (color mode embroidering)

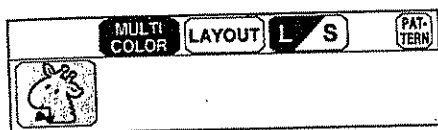
MULTI
COLOR



(1) (2) (3)



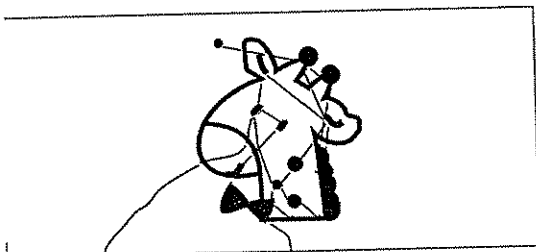
(2) (3)



(3)

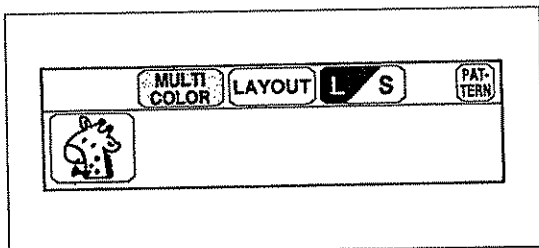
When a pattern is selected it is broken down into color diagrams on the screen. The order of embroidering is shown left to right. The diagram on the left is for the first thread color.

1. Thread the first color. (See page 16 – 17)
When the "START/STOP" button is pressed, the first part of the pattern (1) will be sewn and then the machine will stop automatically.
 - * Be sure to raise the presser foot before changing the thread.
 - * When this color embroidering is completed, the screen display will automatically move to the left one position.
2. Replace the upper thread with the next color and press the "START/STOP" button. The second part of the pattern (2) will be embroidered and the machine will then stop automatically.
3. Replace the upper thread with the next color and press the "START/STOP" button. The third part of the pattern (3) will be embroidered and the machine will then stop automatically.
4. Trim any excess thread.



Embroidering a single color pattern when "MULTI COLOR" is displayed

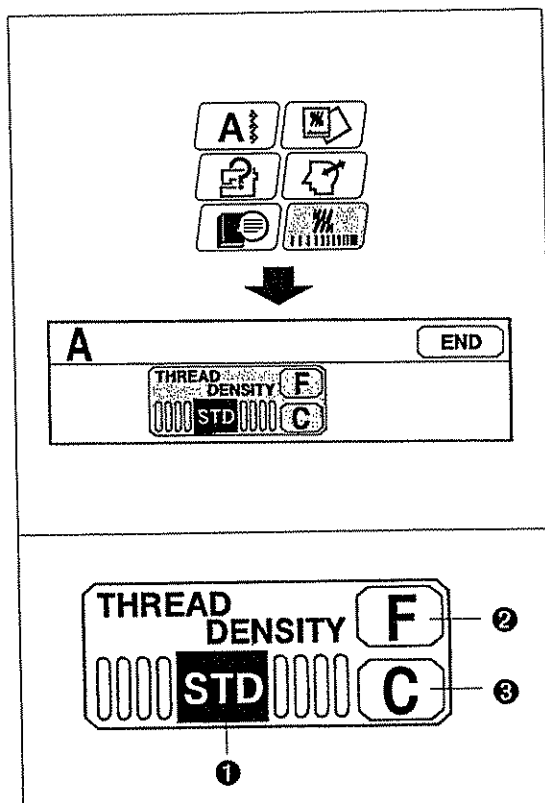
MULTI
COLOR



1. Touch "MULTI COLOR" to change to the single color mode. If the "START/STOP" button is pressed, a single color of the pattern will be embroidered and then the machine will stop automatically.

2. Trim any excess thread.

Changing thread density of the stitch on characters and some frame patterns



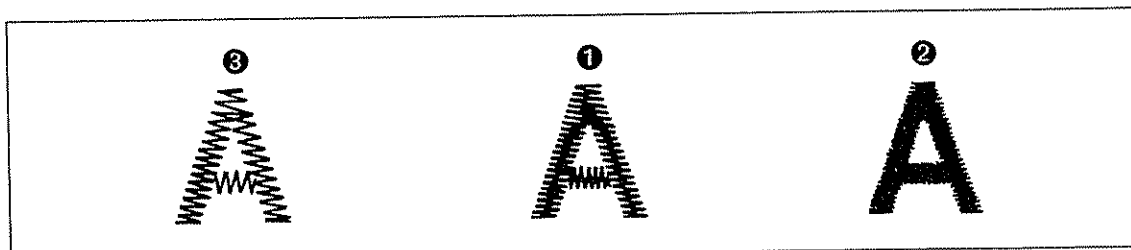
1. Press "STITCH ADJUSTMENT".

2. The thread density of the stitches will become farther apart (coarser) each time "C" is touched. The thread density of the stitches will become closer together (finer) each time "F" is touched.

* The thread density adjustment is not available for all patterns. Patterns other than the characters and some frame patterns are not adjustable.

- ① Standard
- ② Fine (stitches closer together)
- ③ Coarse (stitches farther apart)

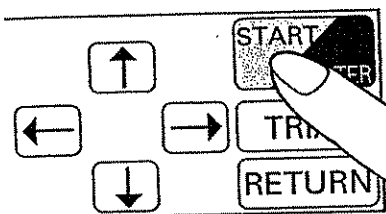
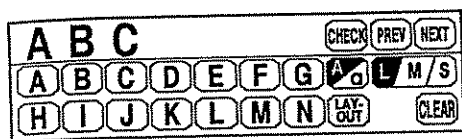
* The normal setting is "STD".



- * This function is useful when there are many characters to embroider and you cannot embroider them all in the same frame.

Example: ABCDE in large size

1. From the character screen input "ABC", touch "LAYOUT" twice and then touch "START/CENTER" to select "START".
(Refer to page 36.)



2. Press the "START/STOP" button to start embroidering. When embroidering has finished, the machine will sew the finishing position automatically.
You can use the finishing position as the starting position for the characters to be embroidered next when the fabric is re-framed with the finishing point and last character just inside the left edge of the frame.

① Finishing position

3. Input the remaining letters "DE", and then touch "START/CENTER" to select "START".
4. Touch the "Up", "Right", "Down" and "Left" arrow keys to move the start point of the needle to the finishing position of the last character and then press the "START/STOP" button to start the machine.

① Finishing position (Use it for the starting position of "DE".)

ABC

①

ABC

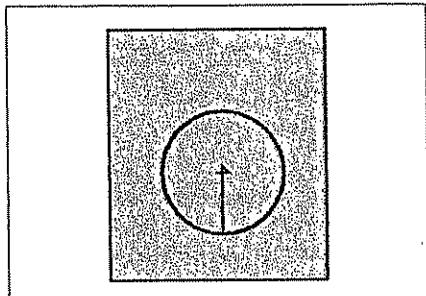
①

ABCDE

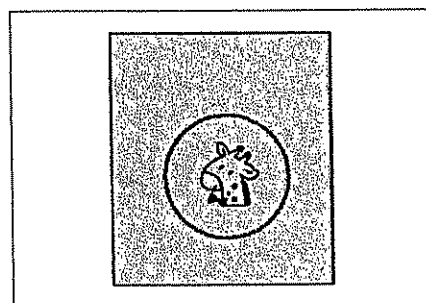
Finished pattern

EMBROIDERING APPLICATIONS

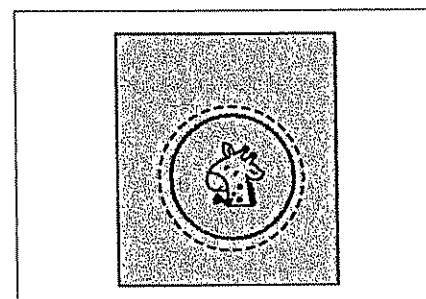
Combining a frame pattern with a design



1. Select a frame pattern and embroider it.
A "+" mark is sewn after embroidering of the frame pattern in the center of pattern. When embroidering characters, one point mark or a design which is stored on a memory card. This mark can be used as a guide for positioning them within the frame pattern.

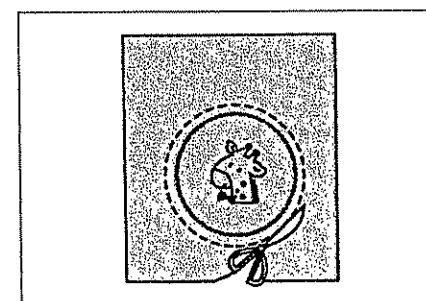


2. Using the "+" mark inside the frame pattern as a guide, align the needle using the center needle layout function. Embroider the design.

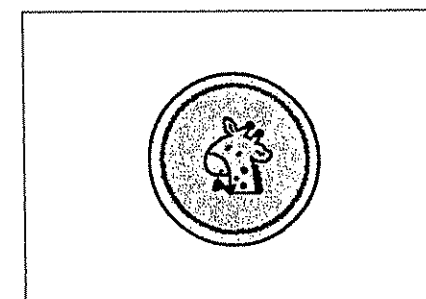


Making badges or decorative patches

1. After embroidering a frame pattern and the combined design, sew an extra frame pattern on the outside using the "—" stitch slightly larger than the original frame pattern.

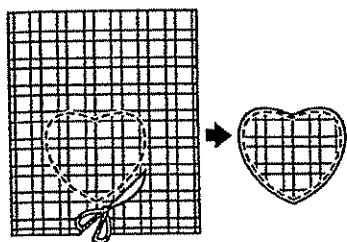


2. Cut cleanly around the frame pattern, following the line of the outside pattern.

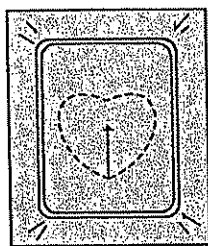


The finished badge or decorative patch is now ready to be attached to a project.

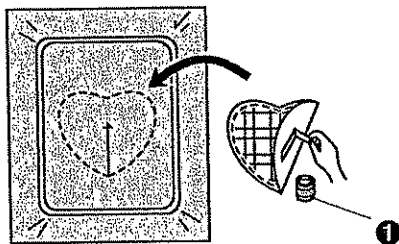
Embroidering appliques (using a frame pattern)



1. Select the applique fabric for the project, attach a stabilizer fabric, place in the embroidery frame and on the machine.
2. Select the frame shape to be embroidered and the "———" stitch. Embroider it onto the applique fabric. Remove the fabric from the frame. Cut neatly around the outside of the shape made by the stitches.

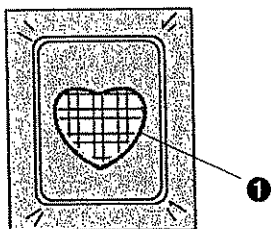


3. Attach a stabilizer fabric onto the back of the fabric on the project where the applique is to be placed. Center the area where the applique is to be placed in the embroidery hoop. Embroider it in the same way using the same frame pattern shape and "———" stitch as in step 2.



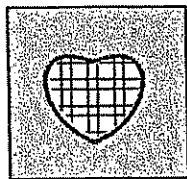
4. Apply a thin layer of fabric adhesive to the rear of the applique which is created in step 2, and then attach it to the base fabric so that it follows the frame shape just stitched.

① Adhesive



5. Without changing the frame shape or size, select the "———" stitch, and use it to embroider the applique material onto the project.

① Broad stitch "———"



The finished applique on the project