

Institch-i5 Electric Control System

Operation Instruction



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Controller



| Contents | Description |
|---------------------|---|
| Touchable Screen | High brightness LCD display and touch screen. |
| USB Insert | USB insert for patterns input and output. |
| Start / Stop Button | Click button to start and stop embroidery. |

1 Tips:

- For ensuring the service life and use of the touch screen, please do not tap the screen with hard and sharp objects.
- Do not click too hard when tapping to avoid damaging the touch screen.

1 Tips:

- Please insert and remove USB with right direction.
- Do not pull out USB when reading, in case data lost.





1. Machine Information

| Contents | Description |
|------------------------------|---|
| Ŷ | Signal intensity. |
| € [√] ^{\$} | USB connection status. |
| Time | Change time display method in setting page. |

2. Status Interface

| Contents | Description |
|--|--|
| | Current needle position. |
| No. 02 | If "00", it is "No Needle". Turn the color change motor knob by hand until screen shows any number but "00". |
| | Color display: After choose colors for pattern, will show here. |
| ■ 01 | • 1 is last color. |
| | • 2 is present color. |
| | • 3 is next color. |
| | 3 color changing modes of embroidery. |
| | • A/A is auto color changing and start embroidery. |
| \$ ` \$ A/A \$ ` \$ A/M \$ ` \$ M/M | • A/M is auto color changing and manual start embroidery. |
| | • M/M is manual color changing and manual start embroidery. |
| | Main axis degree display. |
| | 1 If " ?? " or other numbers, it is main axis not in |
| 쑤 axes: 100° | place. |
| | Click 100° at the bottom page to make it back to normal. |
| 9 35% | Completion ratio. |
| 3. Pattern Preview | |
| Contents | Description |



Display the position of the pattern in frame you selected.

- When the pattern is within the frame, the border line is green.
- When the pattern out of the frame, the border line is red.

4. Pattern Information

| Contents | Description |
|-------------------------------|-------------------------------------|
| Pattern Name flower.DST | Pattern's name and format. |
| Pattern Size (mm) 80.0(W) | Pattern's width. |
| Pattern Size (mm) 120.0(H) | Pattern's height. |
| Total Stitches 0/102700 | Completed stitches / Total titches. |
| No. Total Colors | Completed colors / Total colors. |
| Frame Size (mm) 260 x 260 | Frame's type and area. |

5. Pattern Information

Contents

| -X: 40.0 | +X: 40.0 | -Y: 60.0 | +Y: 60.0 |
|-----------|----------|-----------|------------|
| AX: -12.9 | AY: 9.8 | PX: 110.0 | PY: -133.0 |

Description

(1) Coordinate display of pattern.

- Pattern's width is -X plus +X values.
- Pattern's height is -Y plus +Y values.

(2) Coordinate display of relative origin of pattern and frame.

- AX/AY: coordinate display of relative origin of pattern.
- PX/PY: coordinate display of relative origin of frame.

6. Function Entrance

Contents

| Notice Notice | | | | |
|---|--------------------|---|----------|--|
| Status: Embroidery Status: Break Status: Break Status: Stop Image: Status: Stop Status: Stop Pattern selection, input, output, division, combination, and deletion. pattern > Detailed introduction: P10 Image: Status: Status: | Pattern pattern | Color Frame patch size to color to col | | |
| Status: Embroidery Status: Break Status: Stop 4. Stop. Pattern selection, input, output, division, combination, and deletion. pattern > Detailed introduction: P10 Status: Stop Status: Setting, Mirroring, Arraying, etc. on the pattern. * Detailed introduction: P23 Setting pattern color. * Detailed introduction: P27 Status: Set needle bar number and thread color. * Detailed introduction: P30 Select the corresponding embroidery frame according to pattern. * Detailed introduction: P32 | Status: | Ready | ٢ | Working status: |
| Status: Break 2. Embroidery. Status: Stop 3. Break. Status: Stop 4. Stop. Image: Status: Stop Pattern selection, input, output, division, combination, and deletion. Image: Status: Stop Pattern selection, input, output, division, combination, and deletion. Image: Status: Stop Pattern selection, input, output, division, combination, and deletion. Image: Status: Stop Pattern selection: P10 Image: Status: Rotating, Mirroring, Arraying, etc. on the pattern. Potailed introduction: P23 Image: Status: Setting pattern color. Potailed introduction: P27 Image: Status: Set needle bar number and thread color. Detailed introduction: P30 Image: Status: Select the corresponding embroidery frame according to pattern. Pattern Image: Status: Positioning before starting embroidery. Positioning before starting embroidery. | | | 1 | 1. Ready. |
| Status: Break Status: 3. Break. Status: Stop 4. Stop. Pattern selection, input, output, division, combination, and deletion. Pattern selection, input, output, division, combination, and deletion. pattern © Detailed introduction: P10 Status: © Detailed introduction: P10 Status: Setting attern color. © Detailed introduction: P23 Setting pattern color. © Detailed introduction: P27 Set needle bar number and thread color. © Detailed introduction: P30 Select the corresponding embroidery frame according to pattern. © Size Detailed introduction: P32 © Detailed introduction: P32 Positioning before starting embroidery. | Status: | Embroidery | , 2 | 2. Embroidery. |
| Status: Stop 4. Stop. Image: pattern Pattern selection, input, output, division, combination, and deletion. pattern > Detailed introduction: P10 Image: pattern Rotating, Mirroring, Arraying, etc. on the pattern. Image: pattern > Detailed introduction: P23 Image: pattern Setting pattern color. Image: pattern > Detailed introduction: P27 Image: pattern Set needle bar number and thread color. Image: pattern > Detailed introduction: P30 Image: pattern Select the corresponding embroidery frame according to pattern. Image: pattern > Detailed introduction: P32 Image: pattern Positioning before starting embroidery. | Status: | Break | | |
| Pattern selection, input, output, division, combination, and deletion. * Detailed introduction: P10 Image: Config Rotating, Mirroring, Arraying, etc. on the pattern. * Detailed introduction: P23 Image: Config Setting pattern color. * Detailed introduction: P27 Image: Config Set needle bar number and thread color. * Detailed introduction: P30 Image: Config Select the corresponding embroidery frame according to pattern. * Detailed introduction: P32 Image: Config Positioning before starting embroidery. | Status: | Stop | | |
| Image: Config Detailed introduction: P23 Setting pattern color. Detailed introduction: P27 Image: Color Set needle bar number and thread color. Image: Config Set needle bar number and thread color. Image: Config Select the corresponding embroidery frame according to pattern. Image: Config Select the corresponding embroidery frame according to pattern. Image: Config Positioning before starting embroidery. | | | í | and deletion. |
| Color Detailed introduction: P27 Set needle bar number and thread color. Detailed introduction: P30 Select the corresponding embroidery frame according to pattern. Detailed introduction: P32 Positioning before starting embroidery. | | | | |
| Color Detailed introduction: P27 Set needle bar number and thread color. Detailed introduction: P30 Select the corresponding embroidery frame according to pattern. Detailed introduction: P32 Positioning before starting embroidery. | | | 5 | Setting pattern color. |
| Config Detailed introduction: P30 Select the corresponding embroidery frame according to pattern. Detailed introduction: P32 Positioning before starting embroidery. | | | | |
| Select the corresponding embroidery frame according to pattern. | * | | <u>,</u> | Set needle bar number and thread color. |
| pattern. size Detailed introduction: P32 Positioning before starting embroidery. | Seconfig | | • | Detailed introduction: P30 |
| Positioning before starting embroidery. | | | | |
| | size | | • | Detailed introduction: P32 |
| | (··•··) | | l | Positioning before starting embroidery |
| | <u></u> | | | Detailed introduction: P36 |
| | | | | |

Description

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| Contents | Description |
|--------------|---|
| | Set offset point: When make appliqué, press it to set the stop point after going out of the frame. |
| | 1. Move the embroidery frame to the specified position. |
| OFFSET | 2. Click the set offset key. |
| set offset | 3. Click OK. |
| | • When no offset point is set, the highest point of the current embroidery frame is automatically defaulted as the offset point. |
| | Quick appliqué: Every time you press the key, move alternately between the current position and the offset point. |
| patch | • In the stop state, click the button to move the embroidery frame from the stop point to the offset point. After putting appliqué and so on steps, directly start the machine, the frame will return to the stop point, and continue to embroider. |
| | Return to origin point:Restart embroidery after returning to the origin point. |
| origin point | In the state of embroidery, if you click to return to the origin point, the embroidery will over, and return to the starting point, please select as needed. |
| | Return to stop point:During the embroidery process, when it is necessary to go out of the frame for manual add appliqué or other operations. |
| | 1.Pause the machine first. |
| | 2.Use the direction keys on the screen to move the position of the frame. |
| | 3. When the manual appliqué or other operations are completed, click the key to return to the stop point again, and the embroidery frame will automatically return to the pause position. |
| stop point | 4.Click the start key, and the machine will automatically start embroidery from the last stop position. |
| | During operation, the embroidery frame and fabric cannot be removed, otherwise the last stop point won't be accurate. |
| | After power off, please click the recovery key to continue embroidery. |
| | ✤ Power off recovery: P68 |

| Cont | ents | Description |
|------|------|---|
| | | Move the position of the pattern in frame.speed selection key. |
| | | • High speed move / Low speed move |

7. Common Function

| Contents | Description |
|-------------|---|
| setting | Set machine parameters. |
| | Main axis 100° key. |
| | • You can see the degree of main axis in the embroidery information area. |
| axes | If "???" or other numbers, it is main axis not in place, click this key to bring it back to normal. |
| | Click the key to manually switch needle positions. |
| needles | i If "00", it is "No Needle". Turn the color change motor knob by hand until screen shows any number but "00". |
| | 3 color changing modes of embroidery. |
| | • A/A is auto color changing and start embroidery. |
| | • A/M is auto color changing and manual start embroidery. |
| A/A | • M/M is manual color changing and manual start embroidery. |
| trim | Thread trimming: Manual thread trimming. |
| | Working state switching key(READY/EMB). |
| | • Press the key alternately. |
| READY / EMB | Ready is ready state, pattern selection must be done in the Ready state. |
| | Emb means to enter the working state, only in this state can start embroidery. |

Pattern Management

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Function Menu

| Contents | Description |
|----------|---|
| | Input patterns with USB. |
| Input | • Input the USB, click input key, select the pattern in the USB, click save, and the pattern will be saved in the pattern management. |
| | Detailed introduction: P12 |
| | Patterns output to USB. |
| Cutput | Detailed introduction: P13 |

Pattern Management

| Contents | Description | | | | |
|--------------|---|--|--|--|--|
| Text | Letter embroidery: Click to enter the letter editing interface. | | | | |
| | Detailed introduction: P14 | | | | |
| | Multiple select: Batch import, output and delete patterns. | | | | |
| Multi-select | • It is usually used in importing , outputing , and deleting patterns. | | | | |
| Delete | Delete: Delete the pattern after selecting it. | | | | |
| | Divide: After selecting the pattern, click to enter the pattern division editing. | | | | |
| Devide | Detailed introduction: P18 | | | | |
| | Combined: Select patterns and click Save to enter the combined pattern editing interface. | | | | |
| Combine | i Up to 4 patterns can be selected for combination. | | | | |
| | Detailed introduction: P20 | | | | |

Pattern List

Contents



Description

- (1) Pattern files can be multi or single-selected.
- (2) The width, height, total number of colors, total stitches and name of the pattern will be displayed under the pattern.

How to Input Patterns

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| BAI EMBROIDERY | MACHINE | **** | ¢ | 2023-06-13 17:23 |
|----------------|--------------------------|------|-------|------------------|
| Close | PATTERN | | | Save |
| Input | Output Text Multi-select | [| Devid | e Combine |

- 4 Select the patterns to inputted.
- The default is **multi-selection**, you can select multiple patterns at the same time to input together.







1 Tips:

- When inputting, if USB can't be read, please re-plug or replace USB to input again.
- The USB storage space needs to be less than 64Gb, and the format is Fat32.
- This machine supports the storage of up to 200 deigns or 20 million stitch . If there is not enough space, delete some patterns before continuing to input.
- Do not remove the USB before the input is complete to avoid data loss.
- This machine supports pattern files in DST/DSB format, other formats need to be converted by design software.

How to Output Patterns

| 1 Insert USB. | 4 Click Output |
|--|--|
| BĂi≂≓ | BAI EMBROIDERY MACHINE Close PATTERN Save |
| 2 Click pattern | Tips: If you need to output all patterns, please click directly. |
| Status: Ready Pattern Color Frame Image: pattern Image: pattern Image: pattern | Tips: When outputting, if USB can't be read, please replug or replace USB to input again. Do not remove the USB until the output is complete to avoid data loss. |
| config Config | |



Select the patterns to outputed.

- The default is **single selection**.
- If you need to output multiple patterns at one time, click multi -select key.



Letter Embroidery



Contents



Description

Letter fonts.

• Supports 10 fonts, which can be switched by clicking the left and right keys.

Keyboard input area.

() click on the keyboard input area to bring up the numeric keyboard to write letters.

Letter Embroidery

| Contents | Description |
|---|--|
| | Color change switch. |
| close | • When close, the pattern has only one color at this time |
| color | • When open, each individual letter will have a random color. |
| 20.0 | Letter height adjustment. |
| Height 5-100mm | • Adjustable range 5-100mm. |
| 0.0 | Letter spacing adjustment. |
| Gap 0-100mm | • Adjustable range 0- 100mm. |
| 30° | Letter rotation angle adjustment. |
| Angel -45° - 45° | • Adjustable range -45° — 45°. |
| | Stitch spacing: Can adjust the size of the stitch spacing of letters. |
| 0.4 Density 0.2-2.0mm | • The spacing setting for normal embroidery is 0.3 - 0.4mm, the smaller the value, the denser the pattern, vice versa. |
| | • Adjustable range 0.2-2.0mm. |
| 0.0 | Stitch improve: Used to improve embroidery quality, according to different fabrics and patterns size to adjust. |
| Stitch improve 0-2.0mm | • Adjustable range 0-2.0mm. |
| 0.5 | Margin bottom: Used to stabilize the fabric and reduce embroidery distortion due to shrinkage and avoid sinking into soft fabrics. |
| Margin-bottom 0.5-2.0mm | • The default setting is 0.5mm, the more shrinkage of the fabric, the smaller the distance of the margin bottom. |
| | • The adjustable range is 0.5-2.0mm. |

Letter Embroidery

Stitch Improve Example

The default setting is 0mm.

- The more the shrinkage of the fabric or the pattern, the bigger stitch improve value will be set.
- 1 Affected by the fabric used, it needs to be adjusted according to the actual situation.
- **(**) The following is for reference only.



Margin-Bottom Example

The default setting is 0.5 mm.

• The more shrinkage of the fabric, the shorter the distance of the margin bottom.

No add bottom stitches



Add bottom stitches Distance is 0.5 mm both sides



Added bottom stitches **Distance is 1 mm both sides**



How To Embroider Letters

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4 Edit letters as request.

| Close | | TEXT | | EXT | Save | | |
|--------------|-------------|-------------|-------------|----------------|------------|-----------------|--|
| • | ABC font | F. | | | | color I | |
| T. Height | 20 5-10 | 0,0 0=+= | Gap | 0.0 8-100mm | | 30* -48*- 45 | |
| Density | 0 | 4 Omen | 5ttch impro | 0.0 | Margin-bot | 0.5 | |



Save

Pattern Division



Contents

| 0 700 /102700 | Customize the division of stitches.Input the specific number of stitches, and click the left and right switching keys to divide. |
|---------------------------------|---|
| -1000 -100 -10 +100 +1000 +1000 | Divide the pattern with specific number.Only the system default number of stitches can be selected for division. |
| | Check out the divided preview area. |
| | • Press the left side to preview the first half of the pattern |
| | • Press the right side to preview the second half of the pattern. |

Description

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How To Divide Patterns

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i Tips:

- Design division is to divide the pattern into two according to the specified number of stitches. After the division, two divided designs will be displayed on the design management interface.
- The current version only supports dividing patterns by stitch sequence. If by outline, please use design software.

Pattern Combination

BAI EMBROIDERY MACHINE | No. 02 | 01 🔶 02 | 03 |> 🏹 A/A 🥠 axes: 100° 🌒 35% Pattern Name 8 flower.DST Pattern Size (mm) Pattern Size 80.0(W) Pattern Size (mm) 120.0(H) No. Total Stitches 0/102700 No. Total Colors Frame Size (mm) 260 x 260 -Y: 60.0 PX: 110.0 -X: 40.0 +X: 40.0 +Y: 60.0 AX: -12.9 AY: 9.8 PY: -133.0 Close COMBINE Save ۵ 100 % ⊂⊃ 100 % Ξ X (50-200) Y (50-200) Stretch Horizontal Vertical ◀ Position 0.0 0.0 Х Y **~**___ **1**01 90° angle Multi-Sel Delete

Contents





Description

| The scaling ratio of the pattern in X/Y direction. |
|--|
| • The default ratio is 100%, and the adjustable range is 50%-200%. |

• It can zoom in and out in same proportion by clicking. C->

Adjust the X/Y direction spacing between patterns.

Pattern Combination

| Contents | Description | | | | | |
|------------|---|--|--|--|--|--|
| | Pattern rotation setting. | | | | | |
| | • Tap to enter a custom rotation angle. | | | | | |
| | • The specified angle and direction: | | | | | |
| 90° angle | 0° M0° angle Rotate 0 degrees/Mirror rotate 0 degrees. | | | | | |
| | 90° angleM90° angleRotate 90 degrees/Mirror rotate 90 degrees. | | | | | |
| | 180° angleM180° angleRotate 180 degrees/Mirror rotate 180 degrees. | | | | | |
| | 270° angleM270° angleRotate 270 degrees/Mirror rotate 270 degrees. | | | | | |
| | One-key horizontal arrangement of multiple patterns. | | | | | |
| Horizontal | This function is arranged according to the origin point of the pattern, which may not be on the same horizontal line due to the different shape of the pattern. | | | | | |
| | One-key vertical arrangement of multiple patterns. | | | | | |
| Vertical | This function is arranged according to the origin point of the pattern, which may not be on the same vertical line due to the different shape of the pattern. | | | | | |
| Multi-Sel | Switch between a single pattern and all patterns to edit. | | | | | |
| Delete | Delete single or all patterns after selecting. | | | | | |
| | Move direction keys to adjust the distance between patterns. | | | | | |
| | It supports manual dragging to adjust the spacing between patterns, and a more precise position needs to be adjusted by inputting a value or moving direction. | | | | | |

i Tips:

- Directly use fingers to select specific patterns in the preview area.
- When a pattern is selected, its color displayed on the preview area, and the rest of the patterns are in gray.

How To Combine Patterns

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Edit Pattern



Contents

| | 100 % | .⊃ 100 % | |
|---------|-------------|---------------------|--|
| Stretch | X (50-200) | Y (50-200) | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | • | 0.0 | |
| Sti | tch improve | 0.0 -0.3-0.3(mm) | |

Description

| The scaling ratio of the pattern in X/Y direction. The default ratio is 100%, and the adjustable range is 50%-200%. It can zoom in and out in same proportion by clicking. |
|--|
| Stitch improve: Used to improve embroidery quality, according to different fabrics and patterns size to adjust. |
| • The default setting is 0mm. The more shrinkage of the fabric or the wider pattern, the bigger the stitch improve value will be set. |
| • Adjustable range -0.3 — 0.3mm. |

Edit Pattern

Contents

symmetry, and XY symmetry. • Normal symmetry: • X Symmetry: • Y Symmetry: • XY Symmetry: Pattern rotation setting. • Tap to enter a custom rotation angle. • Rotate according to the specified angle and direction: M0° 0° Rotate 0 degrees/Mirror rotate 0 degrees. angle **~**__ angle 90° angle 90° M90° Rotate 90 degrees/Mirror rotate 90 degrees. angle angle 180° M180° Rotate 180 degrees/Mirror rotate 180 degrees. angle angle 270° M270° Rotate 270 degrees/Mirror rotate 270 degrees. angle angle X-direction array editing. 1 • Click count to enter the desired number of arrays. 1 0.0 ◀ 0.0 count (mm) соруХ (mm) • Click to adjust spacing of arrays. 1 The spacing is judged according to the origin point of embroidery, recommended that the spacing of the array be larger than that of the pattern's width.

Description

Symmetry mode: Switch between normal symmetry, X symmetry, Y

Edit Pattern

| Contents | Description |
|------------------|---|
| CopyY 1 0.0 (mm) | Y-direction array editing. Click 1 to enter the desired number of arrays. Click 0.0 (mm) to adjust spacing of arrays. |
| | The spacing is judged according to the origin point of embroidery, recommended that the spacing of the array be larger than that of the pattern's height. |

How To Edit Pattern







Edit patterns as needed.





ON Save

i Tips:

- Please use professional design software for more precise editing design request.

Color Setting

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Contents

| 11 9 11 | 11 L 12 | 101 | 04 | | | -47 | D4 |
|-------------------|------------|----------|---------|----|----|------|----|
| 2241 | ist. | 07 | œ | 58 | 06 | at | 25 |
| 197 | - | -91 | HT. | 78 | 15 | - 11 | u |
| < | 1- | /s 4 | , 10 | 18 | ы. | - | |

Description

On the left is the color sequence and total number of colors of the pattern.

On the right are the actual embroidery thread colors used for each needle.

- If the color of the needle does not match the embroidery thread used, you can click Back to set the right color.
- Set needle bar number and thread color: P30
- 1 In the middle of setting, if the previous needle number is wrong, click selected and reset.

Color Setting

| Contents | Description | |
|----------|---|--|
| | Appliqué : If add appliqué in the current color, click this key, and the pattern will be added after the current needle number. | |
| | 01 😫 | |
| | When embroider this color, it will automatically be out of the frame and stop, waiting for the appliqué to be added. After finishing, start the machine directly to continue embroidery. | |
| | • If want to cancel the appliqué, click it again. | |
| | Low-speed embroidery : If a certain color needs to be at a reduced speed, click this key, and "L" will be added after the current needle number. | |
| Low | 01 L 02 | |
| | When embroider this color, speed will be reduced to 400 spm. | |
| | • If cancel low-speed embroidery, click it again. | |
| | Modify colors in batches, click this key. | |
| | At this time, the same colors will be selected, and then | |
| | re-select the color in the needle color display area. | |
| | • If cancel the batch modification of colors, click it again. | |
| | Delete : Deletes the incorrect needle number midway through setup. | |
| | 1.Click incorrect needle number. | |
| | 2.Click the delete icon. | |
| | 3.Click OK to clear the subsequent color sequence. | |
| | | |

How To Set Colors



Confirm the total number of colors in the

pattern.











1 Tips:

- Take figure 1 as an example, the pattern has 12 colors, then you need to set from 01 to the 12th color.

4 Select the corresponding needle number

according to the color.

| 01 | 02 | 03 | 04 |
|----|----|----|----|
| 05 | 06 | 07 | 08 |
| 09 | 10 | 11 | 12 |
| 13 | 14 | 15 | |







tips:

- This machine supports up to 200 total colors.
- If the previous color is wrong in the middle of setting, please re-select and set.

Needle Color Setting



Contents



Description

1.First select the needle number to be set.

2.Click the color block on the left to select the desired color, and click Save.

? Please refer to the actual color of the embroidery thread corresponding to the needle.

How To Set Needle Colors

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Click the needle number to be set.









Save

Choose Frame



Contents



Description

Cap1: For front part of cap.

Cap2: For side and back part of cap.



Must first select the hat frame, and then install the hat driver when embroider cap!

Choose Frame

内容









描述

T1-TMax : Garments hoops.

- T1: 60*60mm/2.4"* 2.4"
- T2: 100*100mm/3.9"* 3.9"
- T3: 120*120mm/4.7"* 4.7"
- T4: 160*160mm/6.3"* 6.3"
- T5: 260*260mm/10.2"* 10.2"
- Tmax: 480*320mm/18.9"* 12.6"
- Please refer to the actual configuration size of different models for the maximum size of the frame.

F : Flat embroidery frame. Aluminum material, used with the table board, often used in flat embroidery.

- F: 600*400mm/23.6" * 15.7"
- For details, refer to the actual configuration size of different models.

Other : any size.

This embroidery frame can be used when frame is not within the selection range of T1-T5.

- 1 The frame has no boundaries, please use tracking positioning to determine the embroidery position before starting embroidery.
- tracking and positioning: P36

Quickly add embroidery frames.

- When choose other size frame, quickly add the frame to the machine.
- Add up to 5 different frame types.

itips:

- Select a suitable embroidery frame according to the size of the pattern, and frame size bigger than actual embroidery size.
- If the selected embroidery frame is too large, the frame will be too loose and affect embroidery quality.
- After the cap frame is selected, the currently selected pattern is automatically rotated 180, other frame remain the same.

Quickly Add Embroidery Frames





Click add size key.





() Select according to the actual frame type.





Find the left edge of frame.

- Move the direction key to make the No. 1 needle close to the left edge.
- After confirming the left edge, click Next.
- Please pay attention to the control distance (needle No. 1 presser foot is far away from the inside of the embroidery frame about 1 cm), can't touch the embroidery inside edge.





- Move the direction key to make the No. 1 needle close to the top edge.
- After confirming the top edge, click Next.
- Please pay attention to the control distance (needle No. 1 presser foot is far away from the inside of the embroidery frame about 1 cm), can't touch the embroidery inside edge.



Quickly Add Embroidery Frames



Find the right edge of frame.

- Move the direction key to make the No. 1 needle close to the right edge.
- After confirming the right edge, click Next.
- 1) Please pay attention to the control distance (needle No. 1 presser foot is far away from the inside of the embroidery frame about 1 cm), can't touch the embroidery inside edge.



10 Find the bottom edge of frame.

- Move the direction key to make the No. 1 needle close to the bottom edge.
- After confirming the bottom edge, click Next.
- **1** Please pay attention to the control distance (needle No. 1 presser foot is far away from the inside of the embroidery frame about 1 cm), can't touch the embroidery inside edge.





If confirm to add, click Confirm

If the data collection is wrong, click Close to re-collect.





12 The new frame will be displayed in the list.



Track Location





Contents



Description

Before embroidery, it is used to confirm the embroidery position of the pattern.

- The pattern cannot exceed the embroidery frame.
- Used with laser positioning, if there is no such device, you can observe the contour area that needle No. 1 walks through.
Track Location

| 内容 | 描述 |
|---------------|--|
| normal trace | Normal trace: Fast tracking along the largest edge of the pattern. |
| outline trace | Outline trace: Stitch tracking on the actual edge of the pattern. |
| | • Normal trace first, then outline trace |



Before embroidery, be sure to track and position to avoid frame collision during embroidery!



When no laser positioning device, it is forbidden to press the No. 1 needle by finger for tracking, so as to avoid collision on frame personal injury and machine damage!

Embroidery State



Contents

SPM(stop) 500/1000 Working status display area (waiting, embroidery, thread breakage, completion) Embroidery speed display: Real-time speed/maximum speed set. Speed Down Speed Up Speed Down Speed Up

Description

Embroidery State

| 内容 | | 描述 |
|-----------|---|---|
| | | Operations such as pattern selection, input, output, division, combination, and deletion. |
| pattern | • Same as Ready state. | |
| | | Detailed introduction: P10 |
| 838 | | Set the color of the pattern. |
| color | • Same as Ready state. | |
| | Detailed introduction: P27 | |
| TRACE WAY | Embroidery status trace and position: add stitch trace embroidery mode. | |
| trace | normal trace stitch trace Cancel OK | When entering the stitch embroidery mode, normal trace must be performed first to avoid frame collision |
| shift | | Forward/Backward at high/low speed. |
| color | | Forward/Backward by color. |
| | | Forward/Backward by stitches. |

Bet pos em

Before embroidery, be sure to trace and position to avoid frame collision during embroidery!



All forward and backward operations must be at stopped state, can't during machine running!

Setting



Contents

_____^__↑ ____₽

Description

Language : Set the machine language.

Time : Set the machine time.

Setting

| 内容 | 描述 |
|----------|--|
| | Statistics : Used to view working statistics and clear statistics operations. |
| × = | Test : Used to test whether the sensors, motors, and control boards of the machine are functioning normally. |
| | Machine parameters : Used to set machine thread trimming, thread breaking, speed, embroidery frame and other related parameters. |
| | Engineer parameters : Used under the guidance of professional technicians, please do not modify it without authorization, prevent machine malfunction. |
| | User : Used to connect to Wifi, find the origin. power-off recovery so more operation. |
| ! | System : Used to view system information, software upgrade, input and output of parameters and other operations. |
| | Service : If you have any usage questions, you can contact us through the contact information on the service page. |

Language

| BAI EMBROIDERY MACHINE | · 🗢 🗢 2023-06-13 17:23 | BAI EMBROIDERY MACHINE | | ⊷⇔ 🗢 2023-06-13 17:23 |
|------------------------|------------------------|------------------------|----------|-----------------------|
| Close | Save | Close | LANGUAGE | Save |
| Chinese | ~ | Vietnamese | | |
| English | | Thai | | |
| Spanish | | Arabic | | |
| French | | Romanian | | |
| Dutch | | Italian | | |
| Portuguese | | Polish | | |
| German | | Hebrew | | |
| Russian | | Korea | | |
| Turkish | | | | |
| < 1/2 | > | < | 2/2 | > |

Description

The machine supports 17 languages and can be modified as needed.

Time

| BAI EMBROIDERY MACHINE | * ⁷ * | 중 2023-06-13 17:23 |
|------------------------|------------------|--------------------|
| Close | TIME | Save |
| Year | | 2021 |
| Month | | 3 |
| Day | | 21 |
| Hour | | 12 |
| Minute | | 6 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Description

Set machine time.

Statistic

| Close STATISTIC | | | | | |
|-------------------------------|--------------|-------------------|--------------------|-------------|---------|
| | | | | | |
| Total Startup Time 12:35:06 | | | | | |
| Total Stitches 16582 | | | | | |
| Total Thread Trimming Times 6 | | | | | |
| Pattern No | Pattern Name | Embroidery Sum | Total Completed | Break Times | Operate |
| 1 | dh_01 | 4534 | 5 | 3 | Ū |
| 2 | dh_33 | 15264 | 2 | 18 | 回 |
| 3 | dh_01 | 4534 | 5 | 128 | ▣ |
| 4 | dh_33 | 15264 | 2 | 18 | 圓 |
| 5 | dh_01 | 4534 | 5 | 128 | 回 |
| 6 | dh_33 | 15264 | 2 | 18 | ▣ |
| 7 | dh_01 | 4534 | 5 | 138 | ▣ |
| 8 | dh_33 | 15264 | 2 | 182 | ▣ |
| 9 | dh_01 | 4534 | 5 | 118 | ▣ |
| 10 | dh_33 | 15264 | 2 | 178 | ₪ |
| | | | | | |
| < | | 1 | /2 | | |

Description

- List data can be cleared by clicking

- The total data cannot be deleted or changed, and normal test data displayed after the new machine is received.

44

TEST

| AI EMBROIDERY MACHINE | | | e (* | |
|-----------------------|------|------|------|-----|
| Close | т | EST | | |
| Input | Axis | Head | | |
| +X Limit | | | | ON |
| -X Limit | | | | OFF |
| +Y Limit | | | | ON |
| -Y Limit | | | | OFF |
| Trim | | | | ON |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Close TEST | | |
|------------------|---|------|
| | | |
| | | |
| Hook Test | | TEST |
| Trim Test | | TEST |
| Picker Test | | TEST |
| Thread Lock Test | ſ | TEST |

ContentsDescriptionInputInput signal test.Test whether the X-axis, Y-axis sensor signals, trimming
sensor signals are normal.OutputOutput signal test.OutputClick test to test whether the thread hooking, trimming,
picking , and upper thread clamping are normal.

TEST

| I EMBROIDERY MACHINE | +tr 🗢 2023-06-13 17:2: |
|----------------------|------------------------------|
| Close | TEST |
| Input Output Axis | Head |
| X Motor | 12.7 1-12.7mm TEST |
| Y Motor | 12.7 1-12.7mm TEST |
| Main Axis | 0 TEST |
| QEP | 0 0 20-1000QEP TEST |
| Main Axis | 100° 178° 202° |
| | |



| Contents | Description |
|----------|--|
| | Axis test: Test whether the X-axis motor, Y-axis motor, main axis motor, and zero optocoupler are normal. |
| Axis | • Main axis 100 degrees: Click the main axis to turn to 100 degrees. |
| | • Main axis 178 degrees: Click the main axis to turn to 178 degrees. |
| | • Main axis 202 degrees: Click the main axis to turn to 202 degrees. |
| | Head test. |
| Head | • Used to detect whether the thread breakage detection optocoupler is normal. |

How To Test Machine Head's Board 47





4 Click the needle bar number to be

detected.

| 1 | 1 | 1 | 1 | 1 |
|------|-----|----|----|----|
| ai i | 07 | 03 | PA | 05 |
| 1 | 1 | 1 | 1 | 1 |
| 86 | .87 | 08 | 89 | 19 |
| 1 | 1 | 1 | 1 | 1 |
| 91 | 12 | 13 | 14 | 15 |



5 Use your fingers to turn the roller of

corresponding needle.



and flashes with the rotation of the roller, it means that the roller inspection optocoupler is normal.

(i) If the color of the red alarm indicator remains unchanged, it means that the roller detection optocoupler is abnormal.





How To Test Machine Head's Board 48

Toggle down the spring by hand to separate spring and iron piece.



8 Observe the indicator light in the center, after the spring is separated from the iron piece indicator light changes from red to green, it means that the spring detection optocoupler is normal.

1 If the red alarm indicator remains the same, it means that the spring detection optocoupler is abnormal.



| BAI EMBROIDERY MACHINE | •الله عنه 2023-06-13 17:23 |
|----------------------------|----------------------------|
| Close PARAMETER | Save |
| Set Trim Broken Speed | Frame |
| Auto Set Start Point | 4 Yes ► |
| Auto Return Start Point | Yes |
| Auto Return Offset | No |
| Same Color Auto Start | (Yes |
| Back To Stop Point | No |
| Finish Beep | Off |
| Positioning Red Light Mode | Auto |
| Stop Frame Of Moving | (Yes |
| < 1/3 | > |

| BAI EMBROIDERY MACHINE | ⊷⇔ 🗢 2023-06-13 17:23 |
|-------------------------------|-----------------------|
| Close PARAMETER | Save |
| Set Trim Broken Speed | Frame |
| Auto Jump Stitchs | 6.5mm |
| Choose EMB Type | Slow |
| Repeat Embroidery No | |
| Thick Material Embroidery Off | |
| Needles NO. | |
| Hole Needle Position | |
| Make Up Stitch | |
| Make Up Method Single | |
| < 2/3 | > |

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50

| BAI EMBROIDERY MACHINE | -tr 🗢 2023-06-13 17:23 |
|------------------------|------------------------|
| Close PARAMETER | Save |
| Set Trim Broken Speed | Frame |
| Reset Frame | No |
| Stop To Lock | No |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| < 3/3 | > |

| Parameter Name | Parameter Description | Defaults |
|----------------------|---|----------|
| Auto Set Start Point | When set pattern beginning to end continuous embroidery : If set yes, pattern will embroidery from former stop point. If set no, pattern will embroidery from the whole origin point. | Yes |

| Parameter Name Parameter Description | | Defaults | |
|--------------------------------------|--|----------|--|
| | Whether return to start point after finished: | | |
| Auto Return Start Point | • If set yes, it will return to start point after finish. | Yes | |
| | • If set no, it will stop at the last one stitch point after finish. | | |
| Auto Return Offset | Whether the frame automatically shift to the top of the frame after the embroidery is finished. (The parameters of the embroidery frame must correspond to the size of the embroidery frame) | | |
| | Whether to auto start 2 adjacent same color. | | |
| General Caller A. de Stand | • If set yes, adjacent 2 same color will start automatically. | V | |
| Same Color Auto Start | • If set no, 2 adjacent same color, after first one finished, machine will stop, need to start 2rd color manually. | Yes | |
| | Whether return to stop point when frame move halfway. | | |
| Back To Stop Point | • If it is set to "Yes", it will. | No | |
| | • If it is set to "No", it will not. | | |
| | Whether to turn on the beep after embroidery is completed. | | |
| Finish Beep | • If set to "Yes", there will be a beep. | Yes | |
| | • If set to "No", there will be no beep. | | |
| Positioning Red Light Mode | The red light positioning mode is turned on during tracing. If set to "Auto", the red light positioning will be turned on automatically when tracking and the red light positioning is off for other operations. If set to "Constant Light", the red light will always be on after power on. | Auto | |
| | If it is set to "OFF", the red light positioning will be turn off under any operation. | | |
| | Whether to pull the key to stop when crossing the frame. | | |
| Stop Frame Of Moving | • If set to "Yes", click key will stop. | Yes | |
| | • If it is set to "No", click key will not stop. | | |
| Auto Jump Stitchs | When long-step embroidery is jumping, when the stitch step length exceeds a certain value, it will be automatically divided into two or more stitches for embroidery. | | |
| Choose Emb Type | Which method to use for long-step stitch embroidery. The default setting is "Slow" except for embroidered hats. Set to "Jump" when embroider caps. | Slow | |

| Parameter Name | arameter Name Parameter Description | |
|--|---|----------|
| Repeat Embroidery | Whether to repeat embroidery automatically after the pattern is completed. If set to "Yes", the embroidery will be repeated. If Set to "No", the machine will stop. | |
| Thick Material Embroidery Needles No. | Whether to choose embroidery thick material. If set to "Yes", the embroidery speed will be reduced. If it is set to "No", the embroidery speed will not be reduced. The number of needle currently used by the embroidery machine. | No 15 |
| Incluies Inc. | If the current machine uses 15 needles, set the parameter to "15". | 15 |
| Hole Needle Position | The Hole Needle Position is the needle number used when eyelet embroidery, and you need to set this value to the corresponding needle position. This needle position does have thread breakage detection during embroidery. When hole needle embroidery is not required, set to "0". | 0 |
| Make Up Stitch | How many stitches set in advance when make up is almost finished, ask the rest of the non-make up machine heads embroider together. | |
| Make Up Method | When Embroidering, Whether All-Head Or Single-Head Make Up. If set to "All Heads", all heads will stitch during make up. If set to "single head", only the thread-broken machine head will stitch for making up. | Single |
| Reset Frame | Whether to find the absolute origin of the embroidery frame when power on. If set to "Yes", every time the power on, the embroidery frame will be reset, and the frame will automatically return to the stop position before power off. If set to "No", it will not return to the stop position before power off when the power on. | No |
| Stop To Lock | Whether to lock the axis in stop state. If set to "Yes", the main axis will not be locked in stop state. If set to "No", the ,main axis will be locked in stop state. | No |

Trimming Setting

| BAI EMBROIDERY MACHINE | ↔ 🗢 2023-06-13 17:23 |
|------------------------|----------------------------------|
| Close PARAMETER | Save |
| Set Trim Broken Speed | Frame |
| Jump Stitch | 4 3 |
| Length After Trim | 4 3 • |
| Upper Clamp Angle | 4 200 |
| Trim Lock Stitch | |
| Trim Lock Length | ◀ ● |
| Open Trim Function | Yes |
| Moving Hoops | Yes |
| Hook Motor Speed | |
| | |
| | |

| Parameter Name | Parameter Description Defaults | |
|-------------------|---|-----|
| Jump Stitch | Amount of jump stitches start trimming or no trimming, the larger the value is, the thread trimming less frequent. | 3 |
| Length After Trim | The remaining length of upper thread after thread trimming, the larger the number, the longer the remaining thread. | 3 |
| Upper Clamp Angle | The angle at which the upper thread clamp opens after it is closed again after startup. The larger the value, the later the angle at which the upper thread clamp closes and opens. | 200 |

Trimming Setting

| Parameter Name | Parameter Description | Defaults | |
|--------------------|--|---|--|
| Trim Lock Stitch | How many stitches are locked during thread trimming and starting to prevent the thread from falling off after thread trimming, value The larger the value, the more trim lock stitches during thread trimming and starting. | thread from falling off after thread arger the value , the more trim lock stitches | |
| Trim Lock Length | When embroidering thin materials, the length of the lock stitch should be large, and when embroidering thick materials, it should be appropriately reduced. | 0.6mm | |
| Open Trim Function | Whether to Open Trim Function. When set to "Yes", the machine uses the thread trimming function. When set to "No", the machine does not use the thread trimming function. | Yes | |
| Move Hoops | Whether to move hoops after thread trimming. If set to "Yes", the embroidery frame will move when thread trimming. If set to "No", the embroidery frame will not move when thread trimming. | Yes | |
| Hook Motor Speed | The speed when using the hook motor the larger the value, the faster the speed. | 2 | |

Thread Breakage Setting

| BAI EMBROIDERY MACHINE | -⇔ 🗢 2023-06-13 17:23 |
|------------------------|-----------------------------|
| Close PARAMETER | Save |
| Set Trim Broken Speed | Frame |
| Top Thread Broken Test | ◀ 5ST ► |
| Bottom Thread Inspect | Middle |
| Auto Return Stitches | 4 |
| Broken Voice Prompts | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| Parameter Name | Parameter Description | Defaults |
|------------------------|---|----------|
| Top Thread Broken Test | Upper thread breakage detection sensitivity. The larger the value set, the lower the detection sensitivity. If set to "no detection", it will not alarm and stop after thread breakage. | 5St |

Thread Breakage Setting

| Parameter Name | Parameter Description | Defaults |
|-----------------------|---|----------|
| Bottom Thread Inspect | Bottom thread broken detection sensitivity. When set to "High", the detection sensitivity is high. When set to Medium, the detection sensitivity is medium. When set to "no detection", it will not alarm and sop after thread breakage. | Middle |
| Auto Return Stitches | Automatic turn stitches after thread breakage, based on detection.The larger the value, the more stitches will be automatically returned. | 4 |
| Broken Voice Prompts | How often is the prompt after thread breakage. The smaller the value is, the shorter the thread breakage beep interval will be. If set to "OFF", there will be no prompt sound after thread breakage. | 1 |

Speed Setting

| BAI EMBROIDERY MACHINE ← 🗢 2023-06-13 17:23 | BAI EMBROIDERY MACHINE - 🔆 🗢 2023-06-13 17:23 |
|---|---|
| Close PARAMETER Save | Close PARAMETER Save |
| Set Trim Broken Speed Frame | Set Trim Broken Speed Frame |
| Auto Speed Down Stitch | Start Slow Motion Stitches |
| Jump Stitch Speed Down | |
| Start Main Axis Speed | |
| Max Speed Limit | |
| Move Frame Max Speed 5 | |
| Color Motor Speed | |
| Moving Stitch Value | |
| Main Axis Brake Delay | |
| < 1/2 > | < 2/2 > |

| Parameter Name | Parameter Description | Defaults |
|------------------------|--|----------|
| Auto Speed Down Stitch | Auto Speed Down embroidery after specified stitches number. Set to "2 .0mm", the embroidery will start to slow down when the stitch step exceeds 2mm. | 2.0mm |
| Jump Stitch Speed Down | Slow down to the specific percentage of current speed when jump stitches continuously.Set the percentage of Jump Stitch Speed Down. | 60% |

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Speed Setting

| Parameter Name | Parameter Description | Defaults |
|----------------------------|---|----------|
| Start Main Axis Speed | Speed of main axis at start and stop.The more speed set, the longer trimming length. | 100 |
| Main Axis Max Speed | Maximum speed setting of main axis (limited by mechanical parameters)Set the maximum speed for embroidery. | 1000 |
| Move Frame Max Speed | Set the high speed for frame moving.The larger the value, the faster the speed. | 5 |
| Color Motor Speed | The speed of color change motor.The larger the value, the faster the speed. | 5 |
| Move Stitch Value | Needle step change speed adjustment within how many consecutive stitches.Speed of stitch changing in continuous stitches.The larger the value, the slower the speed change. | 20 |
| Main Axis Brake Delay | The time required for the main axis to stop.The larger the value, the later the angle of the stop position. | 10 |
| Start Slow Motion Stitches | When embroidery starts, move slowly for a few stitches and the main axis starts to speed up.The larger the value, the later main axis will accelerate. | 3 |

Frame Setting

| [| BAI EMBROIDE | RY MACHINE | | | | - : 🗢 20: | 23-06-13 17:23 |
|---|--------------|------------|----------|---------------------|--------|----------------------|--------------------|
| | Close | | Ρ | ARAMETE | R | | Save |
| | Set | Trim | Broker | Spee | ed Fra | ame | |
| | Туре | X Center | Y Center | X Size | Y Size | R | Operate |
| | CAP1 | 112 | -25 | 280 | 75 | 0 | Ū |
| | CAP2 | 0 | 0 | 0 | 0 | 0 | Ū |
| | T1 | 112 | -133 | 60 | 60 | 30 | Ū |
| | T2 | 112 | -133 | 100 | 100 | 50 | Đ |
| | Т3 | 112 | -133 | 120 | 120 | 60 | Ū |
| | T4 | 112 | -133 | 160 | 160 | 80 | Ū |
| | Т5 | 112 | -133 | 260 | 138 | 80 | • |
| | ТМАХ | 112 | -138 | 340 | 340 | 80 | • |
| | F | 115 | 20 | 500 | 400 | 0 | • |
| | C1 | 0 | 0 | 0 | 0 | 0 | • |
| | C2 | 0 | 0 | 0 | 0 | 0 | Ū |
| | C3 | 0 | 0 | 0 | 0 | 0 | Ū |
| | C4 | 0 | 0 | 0 | 0 | 0 | Ū |
| | C5 | 0 | 0 | 0 | 0 | 0 | Ū |
| | | | | | | | |
| coordinate val | ue —— | | | ne size ir ction | n X | | Fran |
| PY coordinates and the second | ate value | | | | | | ame size i rection |

Description

After confirming the size of the embroidery frame and the coordinates of the center position, set the embroidery frame.

- For no rounding corners, R is set to 0.
- The coordinates of Xcenter and Ycenter of embroidery frames of the same type are the same, but the sizes of Xsize and Ysize are different.
- The size of the input Xsize and Ysize should be 30mm smaller than the actual embroidery frame as a safety distance.

1 It is not recommended to adjust Xcenter and Ycenter coordinates easily.

Put backing fabric.



Measure the center point of the frame and record the dimensions in the X and Y directions (in mm).





frame

R

Find the X center line of the Find the Y center line of the



Confirm the center point of frame



• No rounding corners, R set to 0.

frame

The length (mm) of the red line segment is the embroidery rounding corners.



round frame

square frame



square frame 2



7 Use the direction keys to move the embroidery frame so that needle No. 1 coincides with the center point of the embroidery frame



8 Record the values of PX and PY and fill them in the embroidery frame settings.

| No. 02 | 01 🔶 02 🚺 03 🕨 | 【】 A/A 🥠 axes: 10 | 00° 🅖 35% | | | | | | | | |
|-----------------------|---------------------|-----------------------|-------------------------------|---|------|------------|----------|---------|-----------|---------|-----------|
| | | E | Machine [®] | Fill in the values of PX and PY in C1-C5 of the embroidery frame setting. | | | | the | | | |
| | | 8 | Pattern Name flower.DST | | | | custom | embroio | lery frai | mes, ad | d up to 5 |
| | \bigcirc | [8] | Pattern Size (mm) 80.0(W) | | type | 5. | | | | | |
| | | 8 | Pattern Size (mm) 120.0(H) | | Туре | X Center | Y Center | X Size | Y Size | R | Operate |
| | 12/1001A21 | I No | Total Stitches 0/102700 | | C1 | 110 | 113 | 0 | 0 | 0 | Ū |
| | | V NO | 0/102700 | | C2 | ... | 0 | 0 | 0 | 0 | Ū |
| | | No. | Total Colors 1/12 | ******* | C3 | 0 | 0 | 0 | 0 | 0 | Đ |
| | | | Frame Size (mm) 260 x 260 | | C4 | 0 | 0 | 0 | 0 | 0 | Đ |
| | | | | | C5 | 0 | 0 | 0 | 0 | 0 | Ē |
| -X: 40.0 AX: -12.9 | +X: 40.0 AY: 9.8 | -Y: 60.0 PX: 110.0 | +Y: 60.0 PY: -133.0+ | | | | | | | | |

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9 Fill in the recorded X Size, Y Size and circle R values in the embroidery frame settings.

- No rounding corners, R set to 0.
- The size of input X size and Y size should be 30mm smaller than the actual embroidery frame as a safety distance.



10 Click save after the adjustment is complete

Save

Wi-Fi

BAI EMBROIDERY MACHINE ↔ 🗢 2023-06-13 17:23 Close USER Save WIFI Origin Calibration Recovery Wireless LAN ()✓ BAI-5G 🔒 🤶 🚺 网络 BAI GROUP 🔒 穼 🛈 BAI GROUP-5G 🔒 穼 🚺 **∻** () AWiFiWUXIFree

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Description

It is used to connect computer and embroidery machine for pattern transmission control.

• Install matched Institch-Link software firstly.

Find the Origin

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| BAI EMBROIDERY MACHINE | | | ↔ 🗢 2023-06-13 17:23 | - |
|------------------------|-------------|----------|----------------------|---|
| Close | USE | R | Save | |
| WIFI Origin | Calibration | Recovery | | |
| Auto-Or | igin | Manu | ual-Origin | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Description

The absolute origin is to use the frame limit to detect the absolute position of the embroidery frame, so as to ensure that after an unexpected situation occurs in the middle of embroidery, the power-off recovery embroidery can be used to carry out accurate continuous embroidery.

How To Find the Origin

| Auto-Origin Manual-Origin | Auto-Origin Manual-Origin | | |
|--|---|--|--|
| Find The Origin Point Automatically | Find The Origin Point Manually | | |
| 1 Click Auto-Origin. | Move the embroidery frame to the desired position. | | |
| 2 Click Ok. | 2 Click manual-origin. | | |
| Press OK To Find The Absolute Origin. | 3 Click ok. | | |
| Cancel OK | Set The Point As Absolute Origin? | | |
| 3 The embroidery frame automatically finds the absolute position according to the position of the limit photocoupler. • This operation is mainly used to manually set the frame parameters. | Cancel OK 4 Set the current point as the absolute origin. | | |
| 4 Set the current point as the absolute origin. The PX and PY coordinates become 0,0. | -Y: 60.0 +Y: 60.0 PX: 0 PY: 0 | | |
| -Y: 60.0 +Y: 60.0 PX: 0 PY: 0 | | | |

Screen Calibration

67



Description

- After the touch screen is used for a period of time, data drift may occur, resulting in inaccurate key clicks, which can be solved by calibrating the touch screen.
- When calibrating the touch screen, the clicked position on the screen must be exactly the same as the center of the displayed cross, otherwise it will affect the touch screen operation in the future.

Power-Off Recovery



Description

- After a sudden power -off in the middle of embroidery, it can automatically return to last stitch and continue embroidery, without worrying about pattern misalignment.
- Even if the embroidery frame is manually moved after power failure, it can still return to the stop point and continue embroidery.

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System

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| BAI EMBROIDERY MACHINE | ⊷ 🗢 2023-06-13 17:23 | | | | |
|---------------------------------|---|--|--|--|--|
| Close | Close SYSTEM | | | | |
| System Info System Update Fo | | | | | |
| | EMBROIDERY [®] MACHINE | | | | |
| Equipment Name | BAI Embroidery Machine | | | | |
| Device ID | Institch I5 | | | | |
| Device NO. | 00000000 | | | | |
| System Verson | V.EBMA.22B1.0822B1 | | | | |
| Copyright | BAI Embroidery Machine | | | | |
| Equipment Supplier Jiang | gsu Baima Supplier Chain Management Co., Ltd. | | | | |
| | | | | | |

| Contents | Description |
|---------------|---|
| System Info | Check the machine name, system version number and other information. |
| System Update | Upgrade the new version of the system. |
| Font Upgrade | Upgrade the new version of the font. |
| Output Data | Setted parameters in the control system can be backed up to the U disk. |
| Input Data | Input the backup information from the U disk to the machine. |

System

| System Update | Steps |
|------------------|---|
| System Update | Input the upgrade package to the root directory of the USB disk. Insert the USB. Click system update. Click OK. Wait for the upgrade to complete and restart automatically. |
| Font Upgrade | Steps |
| Font Upgrade | Input the upgrade package to the root directory of the USB disk. Insert the USB. Click font upgrade. Click OK. Wait for the upgrade to complete and restart automatically. |
| Output Date | Steps |
| OutPut Data | Insert the USB. Click output data. Click OK. Wait for the parameters outputted to USB. |

| Input Date | Steps |
|------------|---|
| | 1. Insert the USB. |
| InPut | 2. Click input data. |
| Data | 3. Click OK. |
| | 4. Wait for the parameters to be inputted into the machine. |

Common Failures and Solutions

| Information Of Failures | Reasons Of Failures | Solutions |
|-------------------------|---|--|
| Connection Timeout | Operation head and the multi-function board signal line connect failure | Check connect cables |
| | The multi-function board and operation head match failure | Replace the multi-function board |
| | Multi-function board damaged | Replace the multi-function board |
| No Response | The touch screen plug connect failure | Re-plug in touch screen plug |
| No Response | Touch screen damaged | Replace touch screen |
| Misalignment | Touch screen failure | Re-calibrate the touch screen position |
| | Touch screen damaged | Replace touch screen |
| Main axis not in 100° | Main axis stop not at 100° | Click or rotate hand wheel to 100° |
| | Servo controller parameter setting error | Check the signal line or power cable of the spindle driver |
| Main axis not turn | The zero signal plate is damp | Check the spindle motor input power |
| | The zero signal plate damaged | Replace driver or motor |
| | Whether chose to embroider thick material | Reset the parameters of the servo controller |
| Replace driver or motor | Whether the spindle locked while in stop state | Clean the oil and dust on the surface of the zero signal plate |
| | Red light positioning turn on model | Replace the zero signal plate |
| | Zero signal plate damaged | Replace the zero signal plate |
| No 0° | Zero signal plate and multi-function board connect failure | Check or replace the connection line |
| | Color change motor not turn | Check the color change motor or connection line |
| Color time out | Color changing mechanical parts stuck | Repair or replace stuck mechanical parts |
| | The color change motor and the power board connect failure | Check or replace the connection line |
| No needle | Position of the needle detection potentiometer error | Adjust the position of the needle detection potentiometer |
| | Potentiometer damaged | Replace potentiometer |
| | Potentiometer and multi-function board connect failure | Check or replace the connection line |

Common Failures and Solutions

| Information Of Failures | Reasons Of Failures | Solutions |
|-------------------------------|---|--|
| X motor driver error | X motor driver over-voltage or over-current protection | Check X motor driver and re-power on |
| | Driver damaged | Replace driver |
| Y motor driver error | Y motor driver over-voltage or over-current protection | Check Y motor driver and re-power on |
| | Driver damaged | Replace driver |
| Trimmer motor stuck | Proximity switch not in place | Manually adjust the thread trimming switch in place |
| | Proximity switch damaged | Replace proximity switch |
| | Motor plug or lines connect failure | Check the plug or lines and re-plug in |
| Trimmer motor stuck | Multi-function board damaged | Replace the multi-function board |
| | Motor damaged | Replace motor |
| W 1 4 4 1 | Motor plug or lines connect failure | Check the plug or lines and re-plug in |
| Hook motor stuck | Multi-function board damaged | Replace the multi-function board |
| | Motor damaged | Replace motor |
| | Optocoupler board installation error | Re-install Optocoupler board |
| | Optocoupler board damaged | Replace the optocoupler board |
| Broken thread detection error | Connect lines or plug failure between optocoupler board and the multi-function board | Check the lines and re-plug in |
| | Multifunction board damaged | Replace the multifunction board |
| | Parameters setting error of "top thread breakage detection" or "bottom thread breakage detection" | Adjust to correct embroidery parameters |
| +X limit error | +X limit | Manually move the embroidery frame in the opposite direction |
| -X limit error | -X limit | Manually move the embroidery frame in the opposite direction |
| +Y limit error | +Y limit | Manually move the embroidery frame in the opposite direction |
| -Y limit error | -Y limit | Manually move the embroidery frame in the opposite direction |

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