CONTENT

PART 1 THE INTRODUCTION OF THE SYSTEM	INTRODUCTION OF THE S	SYSTEM
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PART 1 THE INTRODUCTION OF THE SYSTEM	1
1.1 SUMMARY	
1.2 Precautions	
1.3 Working Environment	
1.4 System Power Supply and Grounding	
1.5 CONTROL PANEL AND KEYS FUNCTION	
1.5-1 Control Panel	
1.5-2 Keys Function	4
1.5-3 Function	
PART 2 EMBROIDERY WORKING PROCESS	7
PART 3 DESIGN INPUT	9
3.1 DESIGN IN THE U DISK INPUT TO MEMORY	9
PART 4 DESIGNS MANAGEMENT	11
4.1 Select Design	11
4.1-1 Photo Embroidery	12
4.2 CUT DESIGN	
4.3 COMBINE DESIGN	
4.4 DELETE SINGLE DESIGN	16
4.5 DELETE ALL DESIGNS	17
4.6 INPUT DESIGNS TO U DISK	17
PART 5 EMBROIDERY DESIGN	
5.1 Embroidery Status Switch	18
5.2 PREPARATION STATUS	
5.2-1 Set Design Parameter	20
5.2-2 Switch Frame	21
5.3 WORK STATUS	
5.3-1 Design Origin (Start Point) Set	23
5.3-1-1 Low speed check pattern outline	23
5.3-1-2 Embroidery pattern profiles	23
5.3-2 Offset (Another Start Point) Set	24
5.3-3 Offset point (top of the frame) access operation	24
5.3-4 Return Origin (Start Point)	
5.3-5 Return Stop point	25

5.3-6 Set Change Color	
5.3-6-1 Set Change Color Sequence (sticking cloth offset)	
5.3-6-2 Replace Stitch Bar	
5.3-6-3 Set the needle bar display color	29
5.3-7 Change Working Mode	
5.3-8 Embroidery Mode Switch	
5.3-9 Positioning Idling	
5.3-9-1 Add the Specified Stitch/Reduce the Specified Stitch	
5.3-9-2 Forward a Color / Backword a Color	
5.4 Embroidery Running Status	
5.5 STITCH BAR OPERATION	
5.6 SEQUIN HEAD SWITCH CONTROL AND INDICATOR	
PART 6 LETTERS TO GENERATE EMBROIDERY	35
PART 7 MANUALLY CHANGE COLOR	
PART 8 MANUALLY TRIMMING	
PART 9 FRAME ORIGIN	
9.1 MANUALLY SET FRAME ORIGIN	
9.2 AUTOMATICALLY FIND ABSOLUTE ORIGIN	
PART 10 FRAME SET	
PART 11 STATISTIC	43
PART 12 MAIN AXIS JOG OPERATION	44
PART 13 LANGUAGES	45
PART 14 EMBROIDERY PARAMETERS	46
PART 15 SET MACHINE PARAMETERS	47
PART 16 USERS MANAGEMENT	48
16.1 TIME SETTING	48
16.1 Remove Unlock	

PART 17 SYSTEM TEST	51
17.1 Input Test	51
17.2 Output Test	51
17.3 AXIS TEST	
17.4 MACHINE HEAD TEST (USED ONLY IN ORGANIC HEAD PANELS)	53
PART 18 SYSTEM INFORMATION	53
18.1 System No. and Version Info	53
18.2 System Update	54
18.3 INTERFACE UPGRADE	54
PART 19 NETWORK SETTINGS	55
PART 20 APPENDIX	56
20. 1 PARAMETER TABLE	
20. 2 System Fault and Solution	60

PART 1 THE INTRODUCTION OF THE SYSTEM

1.1 Summary

Thank you very much for using our computerized embroidery machine control system!

This system can be applied to variety of embroidery machines to meet different requirements of yours. it will provide you with satisfactory effect for thin and thick materials as well as 3D embroidery!

The advanced RAM+DSP control technology makes the system work faster. the friendly man-machine interface of the system effectively improves the productivity; This control system adopts smooth curve regulation. which makes the machine running more stable. reduces the noise and extends the service life of the machine!

Please read carefully this Manual before using so as to ensure correct operation of the system.

Please keep this Manual properly for future reference.

Due to the difference of configuration. some machines may not be equipped with some functions listed herein. please follow corresponding functions.

1.2 Precautions

Non-professional personnel can never be allowed to carry out maintenance and debugging of the electric system. or the safety performance of the equipment will be reduced. the malfunction will be more serious. and even personnel and property damage will be caused.

Some parts in the case are with high tension. in order to avoid any accidental damage. when the system is powered on. do not open the cover of the case.

Please replace the protective tube strictly in accordance with the identification of the product to ensure personal and property safety.

The power switch of this product is provided with over-current protection. in case the over-current protection switch acts. it will not be closed again until 3 minutes later.

The floppy drive is a precision device. please always remember to insert the disc in the right direction. to avoid damage of the disc or the drive. do not eject or insert the disc during reading or write of the disc (when the floppy disc indicator is on). As the disc is made of magnetic material. it should be kept away form any magnetic field to avoid damage of the disc or loss of the data.

Do not pile up sundries around the control box. and during the operation. the surface of the control box and the filter mesh should be cleaned regularly to keep fine ventilation of the system and facilitate the cooling.

Do not modify the product without authorization of the company; the company should bear no responsibility for any consequence resulted therefrom!

Warning

If it's necessary to open the cover of the case. do not touch any part in the electric cabinet unless you are under direction of professional personnel and the power has been turned off for over 5 minutes!

Prohibitions

Do not touch any moving part or open the control device during operation of the machine. otherwise. it may cause personal damage or abnormal operation of the machine!

It is prohibited to operate any electrical equipment in damp location or environments with dust. corrosive. flammable or explosive gases. otherwise. it may cause electric shock or fire!

1.3 Working Environment

Ventilating and sanitary environment with little dust;

Working Temperature: 5-40°;

Working RH: 30%-90%. no frost.

1.4 System Power Supply and Grounding

This electric control system can use the following power supplies:

Single phase AC100-220V/50-60HZ

According to different configuration. The consumption power is between 0.1-0.4KW

To avoid electric shock or fire due to leakage of electricity. over-voltage or insulation etc.. please ground the electric control system reliably.

Grounding resistance less than 100 ohms. wire length within 20M. the area of wire greater than $1.0\ {\rm MM^2}$

1.5 Control Panel and Keys Function

1.5-1 Control Panel

Control panel is that interface display and operation control in the system. show as:



1.5-2 Keys Function



manually trimming key: when it's in the working status and preparation status. do the manually trimming operation



jog main axis key: click the key to jog main axis to 100 degree.

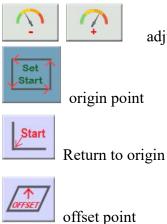
select key: to choose frame movement and control main axis speed.



adjust main axis speed

directional keys: when in the embroidery and

preparation status. to move frame.





Set offset

A

work mode switch key(automatically change color automatically start embroidery mode)



manually change color



set change color



embroidery mode switch (normal embroidery)



remove embroidery



Stop

idling embroidery

return stop point

AX/AY: display relative design origin coordinate

PX/PY: display relative frame origin coordinate

1.5-3 Function

This system has friendly man-machine interface and the operations are simple with powerful functions. which can greatly facilitate the operations of the user and improve the performance and efficiency.

Multiple language supported. select according to your requirement

With large memory capacity. the system can store 20000000 stitches and 200 designs

Multiple means for designs. greatly facilitate to select and use for customer. U disk. USB (required supporting PC software). network (required supporting PC software)

Support multiple design file formate. can recognize Tajima DST and Barudan DSB. etc..

Strong parameter adjustment functions enable you to adjust various parameters according to different requirements to achieve the system control performance you need.

When power off. the function of "Auto Restoring embroidery after power off" enables the machine to continue embroidering from the stitches just before the power off. you need not worry about displacement of designs and realign the positions.

The "Self-checking of devices" function enables checking of the status and parameters of external devices and facilitates adjustment and maintenance.

The "Main axis stop position adjustment" function enables the user to adjust parameters of the system according to the characteristics of the embroidery machine to achieve correct stop position.

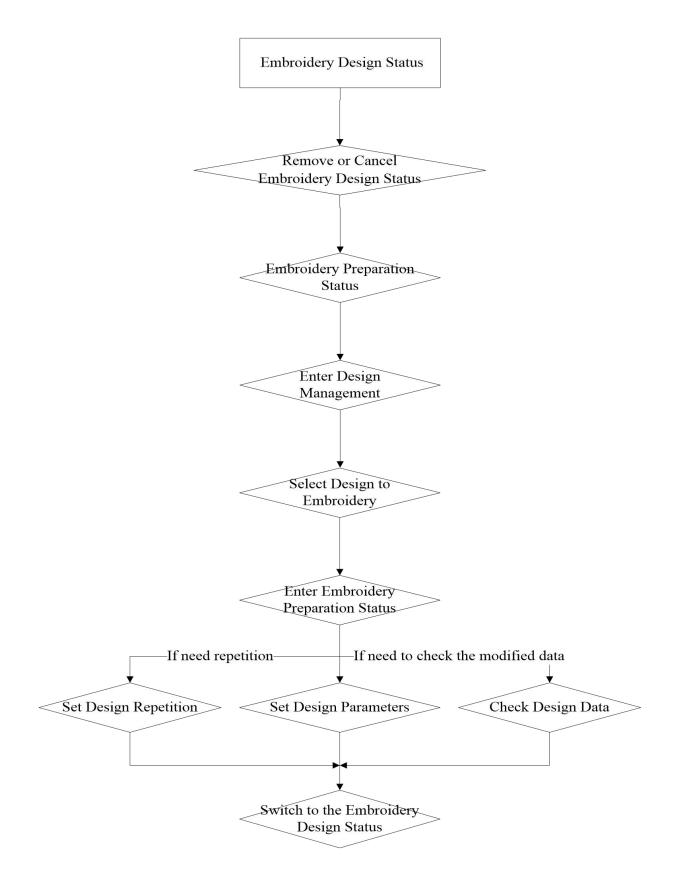
The "Auto memorizing of embroidery design parameters" function can automatically store the preset embroidering parameters or related data of embroidered designs. including color changing. the origin. the offset point. embroidering parameters and repetition etc.. so as to facilitate the embroidery of the next time.

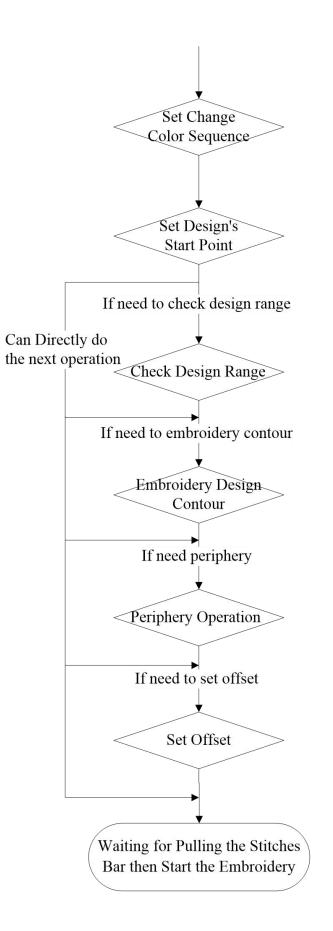
The "Patching offset" function enables user to set any change color stitch bar to path the frame. facilitate the patching embroidery.

The precise pattern beeline embroidering functions can meet you requirements for locating design embroidery.

6

PART 2 EMBROIDERY WORKING PROCESS





PART 3 DESIGN INPUT

Design input is that designs in the U disk input to memory. which can be operated in the embroidery preparation status and embroidery design status.

Design input. files in the external storage medium input to system memory. facilitate to select embroidery. If no designs in memory. it'll enter into the interface when start system.

The system. support reading Tajima DST and Barudan DSB 2 formates.

Before reading design. insert U disk to USB port. then operate panel.

3.1 Design in the U Disk Input to Memory



Click the required designs. click OK. automatically display "input process" situation: memory No. And input process. after finishing. automatically return back U disk interface. do the next operation.

Click **Esc** to return the last interface.

PART 4 DESIGNS MANAGEMENT

Designs management. contain that select design. output design. combine design. cut design. delete design. delete all designs(can not delete in the embroidery status).

In the main interface, press



key to enter the layout management interface.



				20	<	
ST:573 +X:58.	CO:2 X:58.8	+Y:51.9	E.	Y:30.4	-	ALL
	Ab123	\$\$ *+ \$ \$*	* /*	Output	Esc	OK

4.1 Select Design

In the "Design Management" interface. The default enters to select the flower version Click the required design. whose relative information will be displayed in the screen. The

selected design No. And name background change as blue. Click to enter "embroidery preparation status".

When memory design has many pages. click the directional keys to turn the page.

Longly click the selected design 3 seconds. can show the design in full-screen. touch screen a time to return the selected design interface.

In the embroidery preparation status, can set the required embroidery parameters, design rotate direction, zoom, rotate angle, repetition, satin stitch compensation.

4.1-1 Photo Embroidery

In Flower version Management interface, Select the pictures (BMP, JPEG Format) that

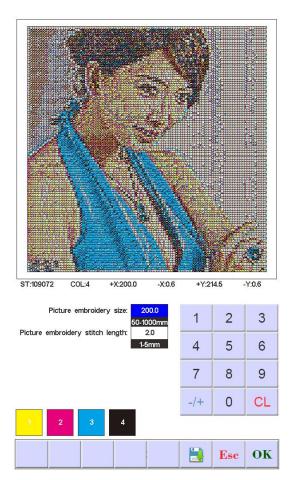
need embroidery, press Key into the photo Setup screen, As shown in figure:



According to the need to set the picture width (height by proportional automatic adjustment), set embroidery needle length, needle step the smaller embroidery reduction degree, the more flower version of the needle will be more, customers can adjust according to

their needs, after the completion of The key begins to generate the embroidery file, as

shown in figure:

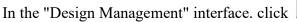


In this interface, the parameters can be changed again according to the requirements to continue to generate.

The color of the lower-left corner is the color order of the flower version: Yellow, red, blue and black. Customers can shade colors based on the base color.

Press The key enters the preparation embroidery interface, carries on the embroidery related setting.

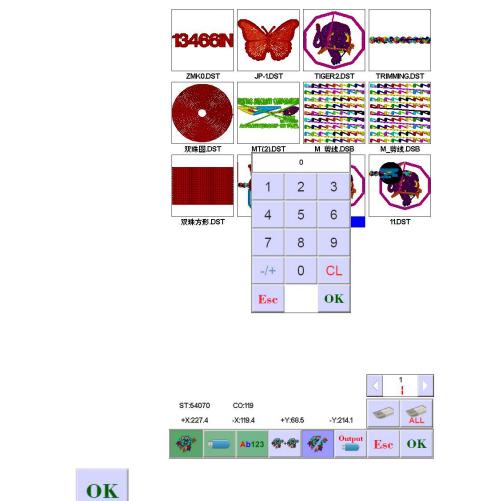
4.2 Cut Design



N/S

Click the required design. Click the required design. whose relative information will be

displayed in the screen. The selected design No. and name background change as blue. Click

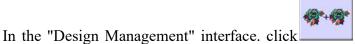


show a box. input the cut stitches. show as:

Click to confirm. then it'll prompt that the design's storage number and cut progress after cutting. After finishing. it'll automatically return "Cut Design" interface.

4.3 Combine Design

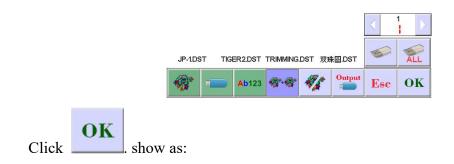
OK



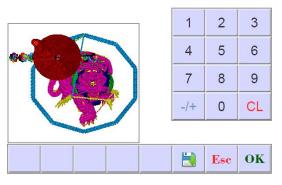
Key to enter the combination of

engraving operation.Click the required design. a design can be selected more times. the maximum is 4 designs to combine a file. the selected design number and name will display in the screen. show as:

13466in	W		90099 6662 9
ZMK0.DST	JP-1.DST	TIGER2.DST	TRIMMING.DST
	Activating and the state		
胶林圆 DST	MT(2).DST	M_剪线.DSB	M_剪线.DSB



\$		E J		F *	X	Y		H
JP-1.DST	\langle	F	\triangleright	0	100	100	0.0	0.0
TIGER2.DST	<	F	Þ	0	100	100	0.0	0.0
TRIMMING.DST	<	F	Þ	0	100	100	0.0	0.0
双珠圆.DST	<	F	Þ	0	100	100	0.0	0.0



According to combination requirements. set the need value. then choose combination

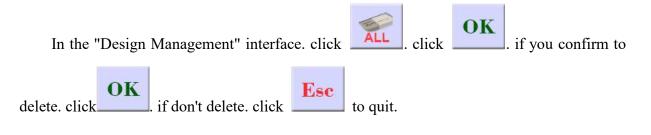
mode. click **OK** to confirm. Storage number and name will be automatically generated.

Press the key to save the combination of the flower version, the system automatically given the storage number and name.

4.4 Delete Single Design

In the "Design Management" interface. click . select design. click to confirm.

4.5 Delete All Designs



4.6 Input Designs to U disk

In the "Design Management" interface. Click	Output	. select designs. click	OK	to
U disk.				

PART 5 EMBROIDERY DESIGN

5.1 Embroidery Status Switch

Embroidery status has 3 kinds: preparation status. working status. and running status. You can switch them by the keys on the interface. Pull stitch bar to enter "running status". show as:



In the preparation status. click ______. show a dialogue box "whether to enter working

status?" click **OK** to confirm. show as:

If no designs in memory. it'll prompt that "don't choose design". and can not enter working status.



Working Status

In the working status. click . show a dialogue box "whether to remove working status ? " click to enter preparation status.

5.2 Preparation Status

In preparation status. can do the operations: main axis jog. trimming. switch frame. manually change color. set design parameter and select design etc.

OK

to save.

5.2-1 Set Design Parameter

		1				
In preparation status.	click	. show	v as:			
	🜻 1.ZMK0.DST	🛛 01 A A	00 00	00 2018	-03-21 17:42	
	E:270X270 r:70	👖 prepare	0&1054			
	AX:0.0 AY:	0.0 PX:-25.4	1 PY:7	3.9 Axe	es:100°	
	-1340004		F T < L J	F ?	< FF > 1	
			X	100	1	
			Y	100	0.0	
			±0.3	0.0	0.0	
	2					
		Change				
	😵 III	Set	Esc		OK	
Modify the numerical	value acco	ording to	your re	quirem	ents. th	en click
or click to return	the prepar	ation state	us inter	face.		
Parameter Range:						

FΠ

-1

L \exists Rotation Direction: default has 8: 0° 、 90° 、 180° 、 270° 、 0° mirror、 90°

mirror 180° mirror 270° mirror

Rotate Angle:0-89° (calculate after the rotation direction)

X/Y direction magnification: 50%-200%

Repetition: ordinary. X symmetry. Y symmetry. XY symmetry

X/Y repetition: 1-99 (ordinary X/Y99. X symmetry X2/99. Y symmetry

X99/Y2. XY symmetry X2/Y2)

X/Y distance: 0-±999.9mm

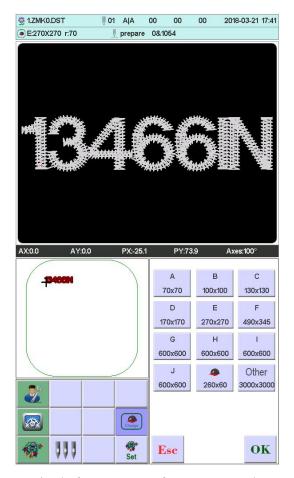
The unit is mm. and numeric value input 0.1m. for example. if need to input 100mm. please input 10000.

 ± 0.3 X/Y compensation (satin stitch): $0-\pm 0.3$

Head mode selection (limited function): After the combination function of the nose, the use of ordinary mode or combination mode embroidery, ordinary embroidery for each nose work at the same time, combined embroidery for a single double head with embroidery a flower version.

Tape Embroidery interval (limited function): the spacing between the starting points of each pattern when the Ribbon embroidery function is turned on, using the scrolling display function. 0-999.9mm, when set 0 points, normal embroidery. When you set up 1-999.9, the automatic swap tape feature is turned on. When setting the tape display interval, the interval size can only be less than the Y of the embroidery box to maximize the embroidery size (Y embroidery box size), otherwise it will not work properly.

5.2-2 Switch Frame



Select the current required frame type from A-J and cap frame. the frame will automatically find absolute origin. and stop at the middle of the frame. please note the frame movement. Embroidery range and the middle point of Cap frame and A-J frame. see the **frame set**. Other frame don't find absolute origin. embroidery range set as software limit (detail operation see **software limit set**)

After choosing frame. automatically return to the preparation status interface. if not choose, the system will use the last used type.

When choose cap frame, the current selected design will automatically rotate 180° . The others not change.

5.3 Work Status

In the working status. can set design origin(start point). offset (another start point). return origin. return offset. return stop point. change color sequence. jog main axis. manually trimming. manually change color. change working mode. embroidery mode switch. position

idling. embroidery design contour. embroidery straight angled line. embroidery + line. embroidery straight line. moving frame generated design. view embroidery range. power off return embroidery working point. check design and frame proportion etc.

5.3-1 Design Origin (Start Point) Set

In the working status. move frame to design's origin (start point). Press

set the flower version yuandian go home and check the box along the pattern maximum range. AX/AY coordinate clear.

If the current design had been set origin point. it'll prompt that "origin point had been set.

OK to reset the current position as origin point. the old if need to reset again?" click Esc . not set. continue to use the last origin. offset also will be cleared. Click

5.3-1-1 Low speed check pattern outline

After setting a starting point, press the button to start generating the outline of

flower version, after the completion of the frame Auto slow empty embroider contour, contour after completed the frame automatically returns to the starting point of flower version. If you spend beyond the frame setting range version, the system will pop flower embroidery version beyond the scope of the error message.

5.3-1-2 Embroidery pattern profiles

button to start generating the outline of After setting the start point, press the flower version, after the completion of the embroidery frame embroidery automatic contour, after the completion of the outline of the embroidery frame will automatically return to the







starting point flower version. If you spend beyond the frame setting range version, the system will pop flower embroidery version beyond the scope of the error message.

5.3-2 Offset (Another Start Point) Set

Set the offset point is mainly to facilitate the retractable embroidery materials and placed with the patch, set the offset point must be set before the origin (from the embroidery point). When the offset point is not set, the default default frame is the offset point.

Press the button, the interface pops up the prompt "move the box to the offset point, press the OK key.", Manually move the box to the need to frame the location, press the



button to complete the set.

After setting, each time after the start of the embroidery frame automatically return to the origin of embroidery began embroidery. After the embroidery is completed, the frame is automatically stopped to the offset point.

5.3-3 Offset point (top of the frame) access operation

Press key to the frame between the current position to set the frame size of most apex mobile, each press of the button, in the parking position to move alternately between the vertices.

When automatic offset whether parameter setting: "Yes", after the completion of the embroidery frame embroidered flower version will automatically move to set the frame size of the vertex stop, start again automatically after return to the last starting position start embroidery.

5.3-4 Return Origin (Start Point)

In the embroidery midway. if need to return origin to start again. can do the operation.

Press key. the system will prompt that "if terminate embroidery. return origin?".

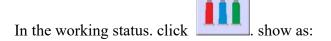
5.3-5 Return Stop point

Stop in the embroidery midway. after manually moving frame. need to return stop point. can do the operation.

Press key . the frame will auto-move to the point that manually move. and stop.

5.3-6 Set Change Color

Set change color contains change color sequence. replace stitch bar.



© E:27	0X270 r:70		waiting	0&1054		
		4		3(
AX:0.0	A۱	/:0.0	PX:-25.1	PY:73.9) Д	xes:100°
001	002	003				
			-			
004	005	006	i i	1	2	3
004 007	005 008	006		1	2	
						3
007	008 011 014	009				3
007	008	009		4	5	3
007 010 013 016 019	008 011 014 017 017 020	009 012 015 018 018		4	5	3 6 9
007 010 013 016	008 011 014 017	009 012 015 015		4	5	3 6 9
007 010 013 016 019	008 011 014 017 017 020	009 012 015 018 018		4	5	3 6 9

5.3-6-1 Set Change Color Sequence (sticking cloth offset)

In the interface. $001 \sim 200$ means the change color times (the system only support 200 times). the cursor in the interface will start with the last position which has stitch bar value. input the current color sequence corresponding stitch bar No.. then the cursor will move the next sequence.

In the setting midway. if the front stitch bar No. error. select it and reset.

Offset out of the frame:

When a color sequence need offset frame out (stitching cloth path embroidery).

before inputting stitch bar No.. please click a time. the background of the current

stitch bar will change as red. If you need to cancel it. click ______ a time.

Low speed embroidery:

If the cursor is in a color order, you need to use low-speed embroidery automatically,

press the **Low** key immediately before entering the needle bar, and increase the "L" after the current needle bar number. If you want to cancel low-speed embroidery, press

	LOW	
again		key

Simple towel embroidery:

If the cursor is in a color order, you need to make simple towel embroidery, press

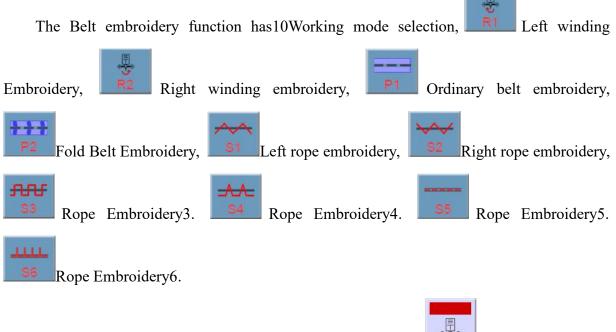
the button without input needle bar, and increase the "T" after the current needle bar

number. If you want to cancel the towel embroidery settings, press again key.

The height of the towel can be adjusted as needed

Rotary Belt needle Bar set (function Limited):

It is used only in the machine with the function of tape embroidery. The default is mounted on the right side, using the first needle disconnection detection.



When you need to set the tape embroidery mode, press The key enters the selection interface, as shown in the figure:

🌻 1.ZMKO.E	ST	🗏 00 🗍 AJA	00 0	0 00	38928-0	1-01 00:03		
Other:30	00X3000 r:0	🐰 waitin	g 0&766			IP:0.0.0.0		
		M-a:	kis mode					
	≣ इ R1	R2	P1 +	++ P2	∽ S1			
AX:-66.9	₩	33	∧∧ =		S6	272		
001					Esc	4		
004				_	LSC			
007	008	009	5	6	7	8		
010	011	012						
013	014	015	9	10	11	12		
016	017	018		t.				
019	020	021						
022	023	024						
	<							
			L -		Esc	OK		

Depending on the pattern you are currently looking for, the left color order displays the corresponding pattern number.

Presser foot height adjustment (electric presser foot. This setting is set to open when the independent presser function is turned on):

In the use of electric lift foot function, each color of the presser foot height can be adjusted according to need. Do not set the default height when using embroidery parameters.

Complete setting. click to save. in the function. the system will save the the cursor position prior data

5.3-6-2 Replace Stitch Bar

The function is used for disposable modify a certain stitch of all color sequence.

In the change color setting interface. click . Click on the selected needle bar

needs to be replaced, all the same needle position are selected, press the key you want to use (replace) the completion of the replacement value of the needle bar needle bar operation.

5.3-6-3 Set the needle bar display color

After setting the color change interface, press the



key to enter the needle bar

display color setting, show as:

👙 1.ZMK0.DST	01	AJA	00 0	00 0	00 20	018-03-21 1	7:39
E:270X270 r:70	<u>I</u>	waiting	0&1054				
13			3				
AX:0.0 AY:0.0)	PX:-25.1	F	PY:73.9	A	\xes:100°	
AX:0.0 AY:0.0		PX:-25.1	F	PY:73.9	2	Axes:100°	
AX:0.0 AY:0.0		PX:-25.1	F				
AX0.0 AY0.0		PX-25.1	F	1	2	3	
AX00 AY00		PX-25.1		1	2	3	
		PX-25.1		1 4 7	2 5 8	3 6 9	
				1 4 7	2 5 8	3 6 9	

First press the key to select the needle bar button to be set, and then click the left color block to select the desired color. After selecting the needle bar to be modified, press the

OK

button to save the selected color. The color of the real-time embroidery preview will be displayed according to the set color.

5.3-7 Change Working Mode

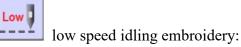
In the working status interface. click I to change working mode. click a time and change a mode(cycle change). click keys follow change. the following is automatically change color automatically start mode. In the manually change color manually start mode. The manually change color manually start mode. The manually change color manually start mode.

Shutdown and p ower on. it is still the modified mode.

5.3-8 Embroidery Mode Switch

Switch embroidery mode. mainly for realization the compensation operation. Users can move the stitch tracking to the specified position by idling embroidery.

In the working status interface. click is to change embroidery mode. click a time and change a mode(cycle change). click keys follow change. the following is normal embroidery. I low speed idling embroidery. I high speed idling embroidery.



In the stop state, press the **ADD** + key (low-speed idle), the spindle will not move, the embroidery frame advances along the embroidery stitches, and the low-speed needle feed stops when the key is released.

In the stop state, press the key (low-speed evacuation), the spindle will not move, the embroidery frame will go back along the embroidery stitches, and after releasing the key, the low-speed exit will stop. Stop status.

Fast high speed idling embroidery:

In the stop state, press the **ADD +** key (high-speed air-in), the spindle and the embroidery frame do not move, and the number of embroidery progress needles is increased. When the key is released, the embroidery frame moves directly to the position of the forward stitch point.

In the stop state, press the key (high-speed evacuation), the spindle and the embroidery frame do not move, and the number of embroidery progress stitches decreases. When the key is released, the embroidery frame moves directly to the position of the back stitch point.

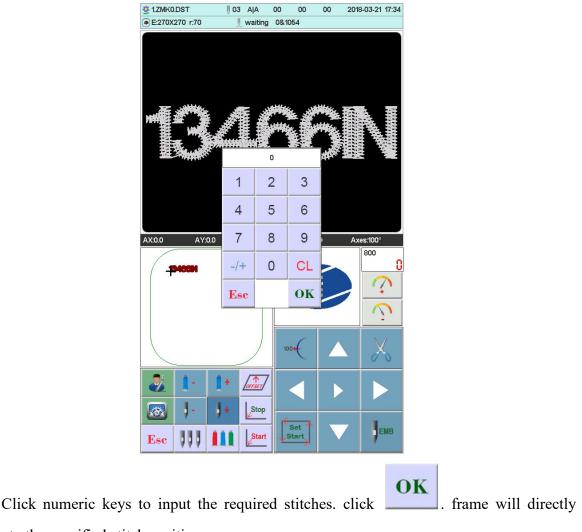
5.3-9 Positioning Idling

Positioning idling contains add the specified stitch. reduce the specified stitch. forward a color. backward a color.

SIZMK0.DST	🛛 01 A A	00 00	00 2018	8-03-21 17:39
● E:270X270 r:70	🐰 waiting	0&1054		
AX:0.0 AY:0.0	PX:-25.1	PY:73	9 Ax	es:100° 800
-1240004				0 ADD + ADD -
		100.4		X
	+ Stop			
Esc		Set		Јемв
positioning idling. cl	ick E s	to	return	working

5.3-9-1 Add the Specified Stitch/Reduce the Specified Stitch





move to the specified stitch position.

5.3-9-2 Forward a Color / Backword a Color

In the positioning idling interface. click or to choose them. frame will directly move to the specified stitch position.

5.4 Embroidery Running Status

In the embroidery running status. only do the main axis lift speed operation.

Click to slow down or speed up main axis rotation speed. Click

kev to stop.



to choose the lifting speed.

5.5 Stitch Bar Operation

After completed the relative embroidery parameters. you can click the key to embroidery.

Stop in the embroidery design status: Press the button for more than 3 seconds, the spindle will be embroidered at the lowest speed. click key a time to embroidery.

In the embroidery running status: click the

5.6 Sequin Head Switch Control and Indicator

Toggle the switch from up to middle. the indicator is green. the landing gear put down (machine lock open). toggle the switch down. slice motor work a time; toggle the switch down more than 2 seconds. the indicator will be orange. release the switch. the landing gear will rise (air pressure)

Switch in the middle. don't enter the sequin embroidery. the indicator is orange. landing gear up. wait send slice. When enter sequin embroidery. landing gear down. indicator change as green.

Sequin head switch up. the indicator off. and close landing gear(when has air pressure. landing gear will automatically rise).

PART 6 LETTERS TO GENERATE EMBROIDERY

In the flower management interface, press key to

key to enter into letter interface.

Press key to select required letters or other signs. Press key to switchupper-case and

lower-case letters. Press key to clear letter. After entering is completed. press

OK key to skip to setting interface (operation cannot be continued if embroidery is not released).



Set letter related parameters. After setting is completed. press key below to select



required letter type (5 types). Press key to generate letter pattern. On the left upper

corner. it can see the generated enbroidery card. Press

key to save embroidery card

in memory.

The current letter string needs to use monochrome embroidery when the color order is closed, you need to open multi-color.

37

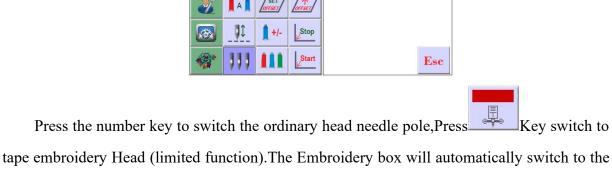
PART 7 MANUALLY CHANGE COLOR

In the working or preparation status. Click

operation. it'll prompt that a numeric keypad. according to your requirements. click the corresponding numeric value to change color.

00

00 AJA

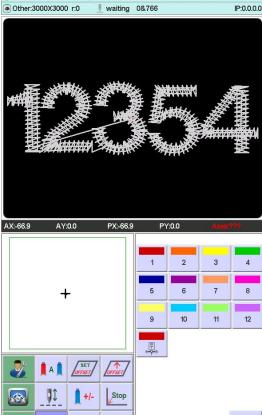


current head position.



00

38928-01-01 00:04



👙 1.ZMK0.DST

00

to switch manually change color

PART 8 MANUALLY TRIMMING

In the embroidery preparation or working status. can do the trimming operation.



on the panel to do bottom side trimming operation.

PART 9 FRAME ORIGIN

Frame origin operation contains manually set origin. find absolute origin and set software limit.

In the main interface, press



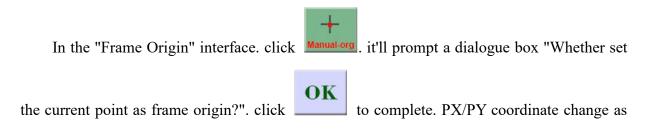
key to enter the integrated setting interface, press



key to enter the original operation interface. show as:



9.1 Manually Set Frame Origin



0.0.

9.2 Automatically Find Absolute Origin

Absolute origin take use of frame limit to detect frame's absolute position. to ensure that some accidents happen in the embroidery midway. can use recovery embroidery to continue.

The function is automatically find by system. must confirm that limit sensor is effect. or it'll cause machine parts destroy!

In the frame origin interface. click Auto-org. it'll prompt a dialogue "Please confirm limit

switch work normal?". click **OK** to find frame origin absolute origin. completed. return the prior stop point.

After finding the absolute origin. the operation will be not effect until the frame moves after power off.

PART 10 FRAME SET

The feature use to set the size of cap frame and A-E frame. and the distance between from frame absolute origin to frame middle.

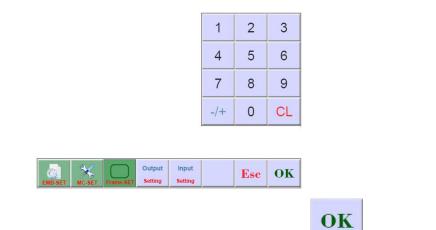
In the main interface, press



key to enter the parameter setting interface. click

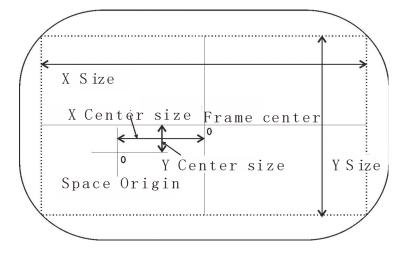


框类型	X中心位置	Y中心位置	X方向尺寸	Y方向尺寸	圆角R
4	63	58	260	60	0
А	63	-10	70	70	35
в	63	-10	100	100	50
с	63	-10	130	130	65
D	63	-10	170	170	85
E	63	-10	270	270	70
F	63	-10	490	345	85
G	0	0	600	600	0
н	0	0	600	600	0
I	0	0	600	600	0
J	0	0	600	600	0



Input numeric value according to your requirements. then click

to save.



PART 11 STATISTIC

The feature use to view generated statistic and clear statistic.

In the main interface, press



key to enter the integrated setting interface,



Embroidery Sum:	376
Total Completed:	0
Break Times:	0

2	\bigotimes			-	ок
TEST	Anager	INFO	HC-org	POWER OFF TO BACK	Esc

Click

to clear the current statistic value.

PART 12 MAIN AXIS JOG OPERATION

The feature use that main axis position stop. can operate it in the interface matched with keys.

According to your requirements to do it.



to jog main axis to 100 degree (Zero positon)

PART 13 LANGUAGES

In the main interface, press



key to enter the integrated setting interface, click

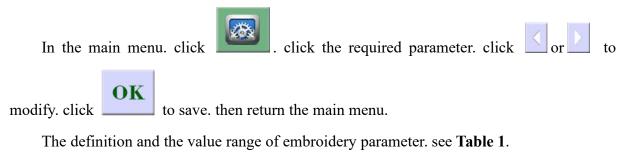


to change required languages.Click to select the desired language, the system

automatically switches to the selected language.

PART 14 EMBROIDERY PARAMETERS

Owing to different machine configuration and embroidery process requirements. need to change some commonly used parameters to meet.



PART 15 SET MACHINE PARAMETERS

The parameters only can be set by professional engineers. the other can not. please don't freely change and modify. to avoid machine can not work.

PART 16 USERS MANAGEMENT

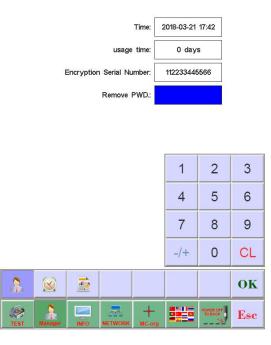
In the main interface, press

key to enter the integrated setting interface, Press



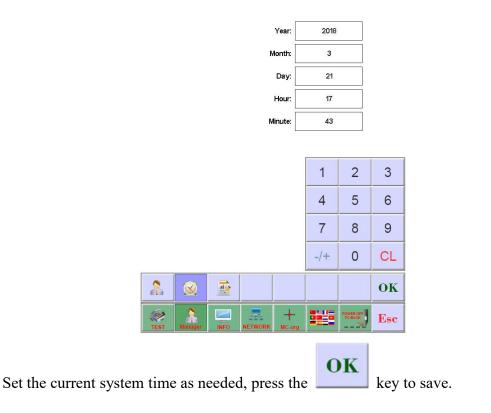
the Manager key to enter the user management interface. In this interface, you can set the

time setting and user limit. Figure:



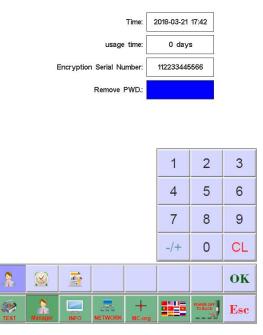
16.1 Time setting

Press the key to enter the time setting interface (if the device is open after the restrictions can not enter the time setting interface), as shown in Figure:



16.1 Remove Unlock

The machine because of restrictions on the use of expiration, the system automatically lock the machine, and prompted to enter the release limit password. Figure:



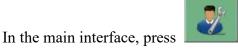
After the encrypted serial number is told to the device vendor, the user can obtain the

unlocked password and press the **OK** key to complete the unlocking of the current limit. After the release of the use of time will be re-set, 0 days for the use of restrictions.

Do not close the current device until the password is removed. Otherwise, the password will not be released.

PART 17 SYSTEM TEST

The operation mainly be used by maintenance engineer. check and test machine.



key to enter the integrated setting interface.

17.1 Input Test

Input

In the test interface. click

. view the input status changes. if no change. the

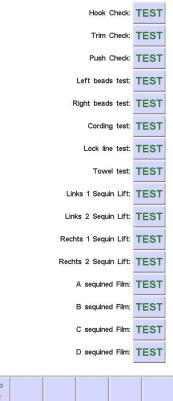
input signal fault. please check and repair.

+X limit:	OFF
-X limit:	ON
+Y limit:	ON
-Y limit:	ON
Hook:	OFF
Trim:	ON
Raster mode:	OFF

Input TEST	Output TEST	Moto TEST			
TEST	Manager	INFO	HC-org	POWER OFF TO BACK	Esc

17.2 Output Test

In the test interface. click





click the corresponding **TEST** key of required testing items. check whether output has effect or not. if the output device no action. the output is fault. please check and repair.

Hook Test: each click. hook knife will do the alternating movement between stretch and reverse.

Trim Test: each click. trim motor will do the alternating movement that turn a half of circle and stop. and one-half turn in the same direction in place.

Buckle Test: each click. buckle electromagnets pull 2 seconds to automatically disconnect.

Sequin Test: each click. sequin landing gear perform decline. slice 3 times. rising.

17.3 Axis Test

In the "Test" interface. click into "Axis Test". and click the corresponding

TEST key of required testing items. check whether axis has effect or not. if the output

device no action. the output is fault. please check and repair.

XY axis Test: click direction keys to change motor moving pulse numbers(1-127). the

default is 127 pulses. click **TEST** to begin to move back and forth.

Main Axis Test: click **TEST** to begin to turn by 100 rev/min. click direction keys to modify main axis speed. Check target speed and actual speed are the same(1000rpm difference of less than 5rpm)

17.4 Machine Head Test (Used only in organic head panels)

In the test interface, pres key to enter into machine head breakage test. Press figure button to test corresponding needle bar. Check whether breakage detection is valid. If the pre-out has fault, Please check and make maintenance.

Facial suture test: When facial suture test spring is closed, red indicator is normally on. It is changed into green when it is separated.

Bottom suture test: Toggle the test wheel. The indicator is flashing along with the toggle speed. Select facial suture and bottom suture according to the requirements.

PART 18 SYSTEM INFORMATION

In the main interface, press



System

In the main menu. click

18.1 System No. and Version Info

In the system info interface. click to view.

key to enter the integrated setting interface,

18.2 System Update

Used to update new software.

In the system info interface. click Update to update. Follow the prompts to upgrade, Follow the prompts to upgrade, in the upgrade process can not power. About 3 minutes to complete the upgrade, the system automatically restart. You can not unplug the U disk before restarting.

System

18.3 Interface upgrade

The library file used to upgrade the control system.

In the system information interface, press the Update key to start the upgrade operation. Follow the prompts to upgrade, in the upgrade process can not power. About 8 minutes to complete the upgrade, the system automatically restart. You can not unplug the U disk before restarting.

Interface

PART 19 Network settings

In the main interface, press



key to enter the integrated setting interface,

In the main menu interface, press the **NETWORK** key to enter the network settings interface.

Depending on the system configuration, you need to set up the system IP when using a wired connection. Use the wireless connection need to search WIFI to connect, the specific operation is as follows.

IP settings:

the machine must set the IP and LAN IP in the same number, or can not link. That is, the first three segments of the same, the final address does not conflict.

WIFI connection:

enter the search interface to search for a nearby wireless connection account, the system automatically sorted by the signal strength, select the need to connect the account (account name is limited to az / AZ and digital, other characters can not be displayed correctly), enter the password input interface, Enter the password (password is limited to az / AZ and digital,

other characters can not enter), press the **OK** button to connect, after the success of the main interface shows the IP address, the connection is not successful when the error message.

PART 20 APPENDIX

20. 1 Parameter Table

Name	Functions	Default	Range
Α			
Jump stitch trim number	It starts to trim or not when several stitch jumped	3	1-9, no trim
Width thread trim length	The remaining thread length after trimmed, a higher number means a longer remaining	3	1-7
Bottom thread break detect	Check sensitivity	Middle	High, middle, low, no detection
Width thread break detect	Check sensitivity	5 stitches	3-9 stitches, no detection
Jump stitch break detect	Detect breaking whether or not when jumping	No	Yes, No
Upper thread lock angles	Close the open angle again after startup.	200	200-250
Trim lock times	Lock several stitches when trimming, to avoid off-thread	1	1-3
Trim lock stitch length	Increase lock stitch length if the material is thin, and decrease lock stitch length properly if it's thick	0.6mm	0.5-1.0mm
Break auto-return	Auto-return stitches after breaking, the break head will compensate embroidery ahead	4	0-9
Auto-set start point	Set "Yes" when designs in the head and tail continuous embroidery	Yes	Yes, No

В			
Auto-return start point	Whether or not to return start point after embroidery, set "No" in the end-to-end continuous embroidery	Yes	Yes, No
Pull stitches continuous back	Return stitches automatically and continuously after several stitches when pull stitches	0	0-9
Large stitch embroidery mode	Which modes to use when large stitch	Low speed	Low speed, jump
Auto-jump stitches	When large stitch is in auto-jump, divided into 2 stitches or more automatically if stitches is over a certain range	6.5mm	6.5-8.5mm
Auto-decelerate stitches	Decelerate embroidery speed if stitches is over a certain range	6.0mm	2.0-9.0mm
Continuously jump deceleration	When jump continuously, decelerate to a percentage of the current speed	80%	60%-90%
Start main axis rotation speed	Main axis rotation speed when starting or stopping, it will increase the trim length when the rotational speed rises	100	60-200
Max. restrict speed	Main axis maximum rotation speed (by machine parameter limit)	750	550-1000
High-speed moving frame speed	Set high-speed moving speed, a higher number means a higher speed	5	1-9
Stepper change color speed	The changeable color speed when use stepper motor	5	0-9
С			
Auto-start same color	Whether or not to auto-start when meet the same color stitch bar	Yes	Yes, No

11			
pull stitch beyond frame	Whether or not to stop when pull stitch	Yes	Yes, No
	beyond frame	105	103, 100
and stop			
Machine stitch	The current machine used stitch bar	n*	1-15
bar quantity	quantities		1 10
Comin stitch how	Use left, right or both of them. The	1-0*	left,right,left and
Sequin stitch bar	parameter is invalid if the feature closed in the machine	left*	right
Sequin			
embroidery limit	Main axis max. rotation speed at the	700	300-1000
speed	sequin embroidery		
Carve knife	Use the position of carve knife (no		
stitch position	breaking detection)	0	0-n
Rope			
embroidery	Use rope embroidery stitch position	0	0-n
stitch position	(auto-deceleration)		
Rope			
embroidery limit	Main axis max. rotation speed at the rope	300	300-800
speed	embroidery		
Circle			
embroidery	Whether or not to continue to embroidery	No	Yes, No
	Whether or not the frame automatically		
Auto Do str			
Auto Back	shift to stop to its top after the completion	No	Yes, No
Offset	of the embroidery (the frame parameter		
	must be correspondent to its size)		
D			
Frame moving curve	Frame moving mode, adjustment according to the actual embroidery effect	F1*	F1-F5
Frame moving	Frame moving angle, adjustment	250*	220-270
angle	according to the actual embroidery effect	230	220-270

Moving frame compensation time	Thin material use positive compensation, thick material use negative compensation, adjustment according to the actual embroidery effect	0	5 %, 0, -5%, -10%
Whether or not to use trimming	Whether or not to use trimming	Yes	Yes, No
Break rise landing gear	Whether or not to rise landing gear after breaking in the sequin	Yes	Yes, No
Reset frame after power on	Whether or not find frame absolute origin after power on	No	Yes, No
Landing gear type	Sequin landing gear mode	motor	Motor, pneumatic
Left sequin size	Left sequin slice size	3*	3-9
Right sequin size	Right sequin slice size	3*	3-9
Various speed stitch numeric	Adjust speed less than continuous stitches	20*	5-20
Е			
Main axis brake delay	The larger the numeric is, the later the brake angle is	8*	1-20
Whether or not to move frame after trimming	Whether or not to move frame after trimming	No	Yes, No
Hook motor speed	Adjust hook stepper motor speed	5*	1-5
Sequin lift speed	Adjust lift stepper motor speed	3*	1-4
Broken voice prompts	How long to prompt once after a break for each time interval	1	1-3, Close
Cording shelf type	Which kind of frame of rope embroidery to use	JY*	JY, GJ

Cording lifting	A lift mode for rope embroidery	Power*	Power, Air valve
methods	This mode for tope emotoredry	10000	
Cording swing	Adjustment of swing for rope embroidery	20	0-20
amplitude	Adjustment of swing for tope emotordery	20	0-20
Cording slack	Loose or tight adjustment for	1*	0-9
adjuster	rope embroidery	1	0-9
Cording lifting	Lifting anod of rong ombraidows	3*	1-4
speed	Lifting speed of rope embroidery	5	1-4

- n* machine use stitches (no default)
- -* set according to your requirements (no default)

20. 2 System Fault and Solution

Fault	Cause	Solution
ation timeout or	1.A signal line connection fault from	1.Overhaul the Cable
1/2	operation head to Multifunction board	2.Replace Multifunction board
communication	2.Multifunction board is not match	3.Replace Multifunction board
timeout of	with operation head	
Multifunction	3.Multifunction board destroy	
board		
Touch Panel has	1.Poor contact of touch panel's plug	1. Re-insert touch panel's plug
no response	2.Touch panel destroy	2.Replace touch panel
The movement of	1.Ageing touch panel	1. Recalibrate the touch panel's position
touch panel (the	2.Touch panel destroy	2.Replace touch panel
malposition of		
Touch position)		
Main axis not in	Main axis don't stop 100 degree	Jog or manually move main axis to 100
the 100 degree		degree
Main axis not	1.Main axis controller no signal or power	1.check signal wire or power wire
turn	input	2.check main axis motor input power
	2.Main axis motor no power input or	3.replace controller or motor
	input fault	
	3.Controller or motor destroy	
Main axis reverse	1.Servo controller parameter error	1.Reset servo controller parameter

turn	2.Coder A/B phase reversed	2.Adjust coder A/B phase connection
No zero position	1.Zero signal panel destroy	1.Replace zero position panel
	2.Zero position to main board connection	2.Check or replace connection wire
	fault	
Change color	1.Change color motor not turn	1.Check change color motor or wire
overtime	2.Machine part of change color stuck	2.Repair or replace the stuck machine part
	3.Change color motor to power wire fault	3.Check or replace wire
No stitch position	1.Stitch detection wheel position fault	1.Adjust the position
	2.Stitch detection board destroy	2.Replace the board
X motor driver	1.X driver over-voltage or over-current	1.Check driver input power and power on
fault	protection	again
	2.Driver destroy	2.Replace driver
Y motor driver	1.Y driver over-voltage or over-current	1. Check driver input power and power on
fault	protection	again
	2.Driver destroy	2.Replace driver
Trim not in place	1.Proximity switch detection not in place	1.Manually adjust trim position
	2.Proximity switch destroy	2.Replace proximity switch
Trim motor	1.Poor contact of motor plug or cable	1.Check cable or plug, re-insert plug
does not turn	2.Multifunction board destroy	2.replace multifunction board
	3.Motor destroy	3.Replace motor
Hook motor	1.Poor contact of motor plug or cable	1.Check cable or plug, re-insert plug
does not turn	2.Multifunction board destroy	2.Replace multifunction board
	3.Motor destroy	3.Replace motor
Lock head	1.Poor contact of motor plug or cable	1.Check cable or plug, re-insert plug
fault(stitch rod	2.Multifunction board destroy	2.Replace multifunction board
drop)	3.Motor destroy	3.Replace motor
	4.Mechanical malposition or stuck	4.Maintenance of machinery part
Sequin position	Sequin stitch bar set fault	Reset change color sequence
fault		
Abnormal	1.Optical coupler installation position is	1.Re-adjustment of installation
detection for	not correct	2.Replace optical coupler
stitch break	2.Optical coupler board destroy	3.Check cable, re-insert plug
	3.Cable or plug fault from optical coupler	4.Replace multifunction board
	to multifunction board	5.Adjust Embroidery parameter correctly
	4.Multifunction board destroy	
	5.Embroidery parameter "Width thread	
	break detect "or "Bottom thread break	
	detect" setting error	

Design	1.Design data error	1.Check design
malposition	2.High rotating speed	2.Reduce main axis rotating speed
	3.Low XY driver current	3.Adjust the drive current or change the speed
	4.Mechanical failure	of the needle-step numerical values
		4.Maintenance of machinery part
+X limit fault	+X direction limit	Manually move frame in opposite direction
-X limit fault	-X direction limit	Manually move frame in opposite direction
+Y limit fault	+Y direction limit	Manually move frame in opposite direction
-Y limit fault	-Y direction limit	Manually move frame in opposite direction