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Part 1 Introduction of the Control System

1.1 System 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 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:

AC100-240V/50-60HZ

The consumption power is about 300W .

To avoid electric shock or fire due to leakage of electricity, over-voltage or insulation

etc., please ground the electric control system reliably.

1.5 Control Panel keypads function

1.5-1 Functions of Keys

O - **9** Numeric keys: Manual color changing in the embroidery patter status, changing data in the selected area in any other status.

```
+/_
```

Value switching: switching to full screen browse of patterns in memory; switching the coordinate display of the origin of the pattern and the embroidery frame in the Embroidering pattern status; changing the positive-negative value of the data in the selected area in any other

status.

Key: Used for machines with over 9 needles, it is used for manual changing of color or setting of the color changing needles in the Embroidering pattern status and for jumping transition when creating a new patter by shifting the frame. When shifting frame to create flower pattern, used for needle skip

Clearing: clearing statistics and displacement of the embroidery frame in the Embroidering pattern status, clearing values in any other number inputting menu.

Select: selecting the speed for shifting the frame and rising/descending the man shaft in the Embroidering pattern status; when setting color changing, it can be used to select whether to enable the patching embroidery function; in any status, it can be used to select variable set values.

Arrow keys: shifting the embroidery frame in the Embroidering pattern status; in any other status, use the Up and Down keys to shift line and the Left and Right key to switch menus.

. /M.ORG

Inching: used for inching operation of the main shaft.

Color changing mode switching: selecting which mode of color changing during the embroidering.

Color changing setting: setting the order of color changing and frame shifting for patching offset.

Idling switching: in the Embroidering pattern status, it is used to switch between normal embroidery and high/low-speed idling.

Rotating direction: in the Embroidery Preparation Status, it is used to select the rotating direction of the pattern.

Origin operation: in the Embroidering pattern status, it is used for setting and returning to the origin as well as returning to the offset point and the limit checking.

Returning to the stop point: returning to the stop point after manually shifting the frame during the embroidery.

Speed up/down and page up/down: in the main shaft rotating speed testing in the

Embroidering pattern status and the Embroidery Running Status, they are used to increase and decrease the speed rotating of the main shaft. In multi-window operation, they are used to turn pages up and down.

Manual trimming: manual trimming operations in the Embroidering pattern status.

Auxiliary functions: used in any status to carry out some auxiliary operations for the embroidery, e.g., magnifying and rotating the pattern, embroidering the beeline, setting the embroidering parameters, mechanical parameters as well as user management etc..

Pattern management: managing patterns in memory and exporting patterns in the Embroidery Preparation Status and the Embroidering pattern status.

hat frame switch; switch between hat frame and adult clothes frame

Embroidery preparation key: switching between the Embroidery Preparation Status and the Embroidering pattern status.

ESC

Esc key: quitting the current operation and returning to the parent operation status.

confirm key: confirming completion of the current operation.

1.5-2 Displaying Icons

Starting point or offset point not defined

Offset point defined

Starting point defined

Auto color changing and automatically starting embroidery

Auto color changing and manually starting embroidery

Manual color changing and manually starting embroidery

(Changing) embroidering pattern

- (Flashing) stopped upon thread breakage
- Start and stop

Pattern embroidery completed

Low-speed idling

High-speed idling

adult clothes embroidering

→ hat frame embroidering

internet connecting

副 internet connecting break

▶ ► High-speed frame shifting (speed up) mode

Low-speed frame shifting (speed up) mode

AX/AY: Displaying the coordinates of the origin corresponding to the pattern

PX/PY: Displaying the coordinates of the origin corresponding to the embroidery frame

1.5-3 Functions

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.

It supports multiple languages and the user can switch the language for operation at any time as required.

With large memory capacity, the system can store 1 million stitches and 200 patterns, as required by the user, it can be extended to 2 million stitches and 200 patterns (special order is required).

Multiple means for pattern importing greatly facilitate the user for selection and operation. Pattern importing is available with 3.5" disc, u-disc connected with PC (supporting PC software required).

This system supports multiple formats of pattern files and can recognize DST of Tajima and of 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.

In case of power cut, the function of "Auto Restoring embroidery after power cut" enables the machine to continue embroidering from the stitches just before the power cut, you need not worry about displacement of patterns 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 shaft stop position adjustment" function (slippage motor) 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 pattern parameters" function can automatically store the preset embroidering parameters or related data of embroidered patterns, 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 the user to set any color changing needle to shift the frame in patching embroidery to facilitate the patching embroidery.

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



Part 2 Embroidering Flow

Enter pat managem

Select pat Be embroi



Part 3 Pattern Management

Pattern Management includes pattern selection (disabled in embroidery status), pattern display, pattern importing, pattern copying, pattern combination, pattern partion, pattern offset , pattern deletion, deleting all patterns (disabled in embroidery status).

In the Embroidery Preparation or Embroidering Pattern status, press been to enter the Pattern Management menu, see the figure below:



3.1 Selecting Patterns for Embroidery

Pattern selection is only available in Embroidery Preparation Status.



9

In the Select Pattern menu, you can press to display all

to display all selected patterns in full screen,

press any key to return to the Select Pattern menu.



In the Embroidery Preparation Status, you can set parameters required for the embroidery,

rotation direction and angle of the pattern as well as magnifying and repetition etc..

3.2 Input Patterns to the Memory



mention the mini flower pattern number you can use, shown as below:

Disk Mangement	2006-06-18 1	6:05
①#001:LMNOPDRT.DST	512	
②#002:QINGDAOW.DST	18865	
③#003 <u>:DUILIESY.DST</u>	<u>98</u> 6	
@#004 Input	5	
5#005 Elemen Memory	NO 6	
©#006 Flower Memory	NU.:	
7#007	8	
⑧#008 Enter	Esc 6	
9#009	8	
10#010:BBBBBBBBB.DST	8788	
Disk File	Number: 18	
Press Up, Down or Digi	tal key to Sel	ect
Press Enter key Confi	rm	

if need to change the flower pattern number, press digital number to modify, after confirming the imputed flower pattern number, press "confirm" button, the system hints that it is now copying files and the progress of the copying . shown as below:

If chosen imputed flower pattern number is being used, the system will hint that the flower pattern is using, do you want to change it , if you want to change it ,please press "confirm" button, then press "Esc" button to rechoose.

Disk Mangement	2006-06-18	16:05
①#001:LMNOPDRT.DST	512	
②#002:QINGDAOW.DST	18865	
③#003 <u>:DUILIESY.DST</u>	<u>98</u> 6	
@#004 Message	5	
5#005	6	
6#006 Copying, Please	Wait 38	
⑦#007	38	
⑧#008		
9#009	8	
10#010:BBBBBBBBB.DST	8788	
Disk File M	Number: 18	
Press Up, Down or Digit	al key to S	elect
Press Enter key Confir	m	

After imputing completely, buzzer will sound 3 times, interface will return to the flower pattern input interface automatically. You can continue to input the flower pattern.

3.3 Output Patterns

It is Importing Patterns of the memory to to U flash memory disc. In the interface of flower

pattern management, press	press 🔊 👿	to move the	e cursor or	3	button to	select	the
operation and then press	, see the figure	e below:					

	Output Design	2006-06-1	8 16:05		
	<pre>①#001:LMNOPDRT.MEM ②#002:QINGDAOW.MEM ③#003:DUILIESY.MEM ④#004:12345678.MEM ⑤#005:JIANSHEA.MEM ⑥#006:TAIZHIKJ.MEM ⑦#007:ZHONGGUO.MEM ⑧#008:LONGFENG.MEM ⑨#009:AAAAAAA.MEM ⑩#010:BBBBBBBB.MEM</pre>	8512 18865 986 8975 25896 12888 38988 28966 18788 8788 Y -Y: C0: ey Select PU PD key Confirm	80.8mm 80.8mm 51.5mm 51.5mm 51.5mm 5		
)	
Press , to	turn the page up an	d down, press		to move the	cursor or
U to choose	needed output pattern,	press " confirm	n" button	,interface will i	release a

dialog to mention to modify the number of flower pattern, shown as below:

Output Design	2006-06-18 16:05
①#001:LMNOPDRT.MEM 851	12
2#002:QINGDAOW MEM 1886	35
3#003:DU Input	OR CO
(4# 004:12) 0 1 2 3 4 5	6 7 8
⑤#005:JI 9 A B C D E	F G H
©#006:TA I J K L M N	O P Q
(7#007: ZH R S T U V W	X Y Z 80.8mm
(8)#008:L0	80.8mm
(9#009:AA)	Cancolli 51.5mm
<u>0</u> #010:BB	51.5mm
	— CO: 5
Up Down Digital key Se	elec ; PU PD to
Change Page, Enter key	Confirm

Press \bigwedge \bigtriangledown \checkmark \checkmark \checkmark to move cursor, press "choose" button to select letters, after complete modifications, press confirm button to storage the flower pattern. If you use the original flower pattern name, just press confirm button to storage the button.

After saving the flower pattern, interface will be returned to the output flower pattern automatically, you can continue to output pattern.

3.4 Copy Patterns



Computer Operation Manual for PTCS-05 Series Embroidery Machine

	Copy Memory Design	2006-06-18 16:05	
	<pre>①#001:LMNOPDRT.MEM ②#002:QINGDAOW.MEM ③#003:DUILIESY.MEM ④#004:12345678.MEM ⑤#005:JIANSHEA.MEM ⑥#006:TAIZHIKJ.MEM ⑦#007:ZHONGGUO.MEM ⑧#008:LONGFENG.MEM ⑨#009:AAAAAAA.MEM ⑩#010:BBBBBBBB.MEM Up Down Digital k Change Page,Enter</pre>	8512 18865 986 8975 25896 12888 38988 28966 18788 8788 Y: 51.5mm -Y: 51.5mm C0: 5 ey Select PU PD to • key Confirm	
Press Press to	turn the page up and do	own, press 🛆 👿 to n	nove the cursor or
9 to select the pattern	n to be copied and the p	oress 💷, a pop-up m	enu will appear to prompt
the min. available pattern	number imported in th	e memory pattern numbe	er, see the figure below:
	Copy Memory Design 1#001:LMNOPDRT.MEM 2#002:QINGDAOW.MEM 3#003:DUILIESY.MEM 4#004:1 Input 5#005:J 0esign Memo 8#008:L 9#009:A 0#010:BBBBBBBBB.MEM Up Down Digital k Change Page, Enter	2006-06-18 16:05 8512 18865 986 ory NO.: Esc 80.8mm 80.8mm 80.8mm 80.8mm 80.8mm 0.5 1.5mm CO: 5 ey Select PU PD to key Confirm	
If it's required to mo	dify the pattern numbe	r in memory, press	for modification,
after confirming the input	tted pattern number, pr	ess 🖳, a pop-up me	nu will appear to prompt
modification of the pattern	n number, see the figur	e below:	
If the selected patte	rn number in the mem	nory is already used, the	system will prompt that
"pattern number already	used, cover?", after co	nfirming to cover, press	to save and press
Esc to return for resele	ection.		

	Copy Memory Design 2006-06-18 16:05
	①#001:LMNOPDRT.MEM 8512
	(2)#002:QINCDAOW_MEM_18865_11 (3)#003:DII Input
	(4)#004:120 <u>1 2 3 4 5 6 7 8</u>
	(5)#005:JI9ABCDEFGH
	$(\overline{O} \# 000: IA \underline{I} \underline{J} \underline{K} \underline{L} \underline{M} \underline{N} \underline{O} \underline{P} \underline{Q}$ $(\overline{O} \# 007: ZH \underline{P} \underline{C} \underline{T} \underline{U} \underline{V} \underline{W} \underline{V} \underline{V} \underline{Z} \underline{U}$
	(B)#008:L0 K S I V W A I Z 80.8mm (B)#008:L0 TZE01288 80.8mm 80.8mm 80.8mm
	(0)#009:AA ABST255 (0)#010:BB Enter Esc 51.5mm
	<u> </u>
	Up Down Digital key Select PU PD to Change Page, Enter key Confirm
Press 🛕 👿 ┥) \blacktriangleright to move the cursor, press \checkmark to select characters, after the
modification, press	to save the pattern. If the original pattern name is used, directly press
to save the pattern	λ.
3.5 Repair Pattern	
In the Pattern Mana	agement menu, press $$ $$ to move the cursor or $\textcircled{5}$ to select
the operation and then p	ress , see the figure below:
	Repair Memory Design 2006-06-18 16:05
	①#001:LMNOPDRT.MEM 8512
	(2)#002:QINGDAOW.MEM 18865 (3)#003:DULLIESY MEM 986
	(4)#004:12345678. MEM 8975
	(5)#005: JIANSHEA. MEM 25896
	(7#007: ZHONGGUO. MEM 38988
	⑧#008:LONGFENG. MEM 28966 +X: 80.8mm -X: 80.8mm
	(9)#009:AAAAAAAA. MEM 18788 (0)#010:BBBBBBBB MEM 8788 +Y: 51.5mm
	-Y: 51.5mm
	Up Down Digital key SelectPU PD to
	Change Page, Enter key Confirm
Press Protect to turn	the page up and down, press \bigtriangleup \bigtriangledown to move the cursor or \bigcirc
9 to select the patter	n to be compensated and then press , a pop-up menu will appear
to prompt inputting comp	ensation values, see the figure below:

	Repair Memory Design 2006-06-18 16:05
	①#001:LMNOPDRT.MEM 8512
	②#002:QINGDAOW.MEM 18865 ③#003:DULLIESY MEM 986
	@#000:porpreserved and a second
	(5)#005:J multiple X, Y Repair (+-0.3):
	(0)#006:1 X:0.0 Y:0.0
	⑧#008:L Enter Esc 80.8mm
	(9)#009:AL (0)#010:BBBBBBBB MFM 8788 +Y: 51.5mm
	CO: 5
	Up Down Digital key SelectPU PD to
	Change Page, Enter key Confirm
Press the numeric I	keys to input the compensation values, press +
positive and negative	values, and press 🗾 to save the compensated pattern. Upon
completion, the system v	vill automatically return to the Compensate Pattern menu, where you can
continue with compensat	ion operation.
3.6 Delete Pattern (S	ingle pattern)
In the Pattern Mana	gement menu, press \bigtriangleup \bigtriangledown to move the cursor or \bigcirc to select the
operation and then press	, see the figure below:
operation and then press	Delete Memory Design 2006-06-18 16:05
operation and then press	Delete Memory Design 2006-06-18 16:05 ①#001:LMNOPDRT.MEM 8512
operation and then press	g , see the figure below: Delete Memory Design 2006-06-18 16:05 ①#001:LMNOPDRT. MEM 8512 ②#002:QINGDAOW. MEM 18865 ③#003:DULL LESY MEM 986
operation and then press	See the figure below: Delete Memory Design 2006-06-18 16:05 ①#001:LMNOPDRT. MEM 8512 ②#002:QINGDAOW. MEM 18865 ③#003:DUILIESY. MEM 986 ④#004:12345678. MEM 8975
operation and then press	Belete Memory Design 2006-06-18 16:05 1#001:LMNOPDRT. MEM 8512 2#002:QINGDAOW. MEM 18865 3#003:DUILIESY. MEM 986 4#004:12345678. MEM 8975 5#005: JIANSHEA. MEM 25896
operation and then press	See the figure below: Delete Memory Design 2006-06-18 16:05 1#001:LMNOPDRT. MEM 8512 2#002:QINGDAOW. MEM 18865 3#003:DUILIESY. MEM 986 4#004:12345678. MEM 8975 5#005: JIANSHEA. MEM 25896 (@#006: TAIZHIKJ. MEM 12888 (?)#007.7HONGGUO MEM 38988
operation and then press	See the figure below: Delete Memory Design 2006-06-18 16:05 ①#001:LMNOPDRT. MEM 8512 ②#002:QINGDAOW. MEM 18865 ③#003:DUILIESY. MEM 986 ④#004:12345678. MEM 8975 ⑤#005:JIANSHEA. MEM 25896 ⑥#006:TAIZHIKJ. MEM 12888 ⑦#007:ZHONGGUO. MEM 38988 ⑧#008:LONGFENG. MEM 28966
operation and then press	See the figure below: Delete Memory Design 2006-06-18 16:05 1#001:LMNOPDRT. MEM 8512 2#002:QINGDAOW. MEM 18865 3#003:DUILIESY. MEM 986 4#004:12345678. MEM 8975 5#005: JIANSHEA. MEM 25896 6#006: TAIZHIKJ. MEM 12888 7#007: ZHONGGUO. MEM 38988 8#008: LONGFENG. MEM 28966 9#009: AAAAAAAAA. MEM 18788 +Y: 51.5mm
operation and then press	see the figure below: Delete Memory Design 2006-06-18 16:05 1 #001:LMNOPDRT. MEM 8512 (2#002:QINGDAOW. MEM 18865 (3#003:DUILIESY. MEM 986 (4#004:12345678. MEM 8975 (5#005: JIANSHEA. MEM 25896 (6#006:TAIZHIKJ. MEM 12888 (7#007:ZHONGGUO. MEM 38988 (8#008:LONGFENG. MEM 28966 (9#009:AAAAAAAA. MEM 18788 (0#010:BBBBBBBBB. MEM 8788
operation and then press	see the figure below: Delete Memory Design 2006-06-18 16:05 1 #001:LMNOPDRT. MEM 8512 (2#002:QINGDAOW. MEM 18865 (3#003:DUILIESY. MEM 986 (4#004:12345678. MEM 8975 (5#005: JIANSHEA. MEM 25896 (6#006:TAIZHIKJ. MEM 12888 (7#007:ZHONGGUO. MEM 38988 (8#008:LONGFENG. MEM 28966 (9#009:AAAAAAAA. MEM 18788 (10:BBBBBBBB. MEM 8788 (10:BBBBBBBBB. MEM 8788 (10:BBBBBBBB. MEM 8788 (10:BBBBBBBB. MEM 8788 (10:BBBBBBBB. MEM 8788 (10:BBBBBBBBB. MEM 8788 (10:BBBBBBBB. MEM 8788
operation and then press	Image: See the figure below: Delete Memory Design 2006-06-18 16:05 Image: Sec the figure below:
Press	 see the figure below: Delete Memory Design 2006-06-18 16:05 #001:LMNOPDRT. MEM 8512 #002: QINGDAOW. MEM 18865 #003: DUILIESY. MEM 986 ##004: 12345678. MEM 8975 #005: JIANSHEA. MEM 25896 #006: TAIZHIKJ. MEM 12888 #008: LONGFENG. MEM 28966 #009: AAAAAAAA. MEM 18788 #009: AAAAAAAA. MEM 18788 #0010: BBBBBBBB. MEM 8788 #010: BBBBBBBB. MEM 8788 Up Down Digital key Select PU PD to Change Page, Enter key Confirm turn the page up and down, press Image Select PU PD to Change Page up and down, press Image Select PU PD to Change Page.
Press Press to select the patter	see the figure below: Delete Memory Design 2006-06-18 16:05
Press Press to select the patter currently in use cannot t	see the figure below: Delete Memory Design 2006-06-18 16:05

whether to delete current pattern, see the figure below:

Delete Memory	Design	2006-	-06-18	16:05
①#001:LMNOPD ②#002:QINGDA ③#003:DULLIE	RT.MEM OW.MEM SV.MEM	8512 A 18865 986	Serie	
(4)#003:D01D12 (4)#004:1Messa (5)#005:J (6)#006:T D1et	ge ;e the Fi	ile?	X	
(7#007:Z (8#008:L) (7#007:Z)	nter	Esc		80.8mm 80.8mm
(1)#019:AL	BB.MEM	8788	+Y: -Y:	51.5mm 51.5mm
Up Down Dig Change Pag	gital ke e,Enter	y Selec ; P key Confi	UPD t	50

Press to delete the pattern. Upon completion, the system will return to the Delete Pattern menu, where you can continue deleting patterns.

3.7 Partion Pattern

In the Pattern manag	gement menu, press \bigtriangleup v to move the cursor or 7 to select the
operation and then press	, see the figure below:
	Partion Memory Design 2006-06-18 16:05 ①#001:LMNOPDRT. MEM 8512 ②#002:QINGDAOW. MEM 18865 ③#003:DUILIESY. MEM 986 ④#004:12345678. MEM 8975 ⑤#005:JIANSHEA. MEM 25896 ⑥#006:TAIZHIKJ. MEM 12888 ⑦#007:ZHONGGUO. MEM 38988 ⑧#008:LONGFENG. MEM 28966 ⑨#009:AAAAAAAAA. MEM 18788 ⑩#010:BBBBBBBBB. MEM 8788 ①#010:BBBBBBBBB. MEM 8788 ①Honor Disited here 6.1 Output 6.1
	Change Page, Enter key Confirm
Press Press to represent the pattern	turn the page up and down, press \bigwedge \bigtriangledown to move the cursor or \bigcirc n to be divided and then press \frown , a pop-up menu will appear to m,

see the figure below:

Par	tion Memory	Design	2006-06-18	3 16:05	
①# ②# ③# ③# ④# ⑤# ⑥# ⑦# ⑧# ⑨# ⑩#	001:LMNOPDR \$002:QINGDA0 \$003:DUILIES \$004:1 \$005:J \$006:T \$007:Z \$008:L \$009:A	T.MEM 853 W.MEM 1880 Y.MEM 98 Partion S 1 ter B.MEM 878	12 ▲ 65 36 titch: Esc 88 ↓ +Y: -Y:	80. 8mm 80. 8mm 51. 5mm 51. 5mm	
	Up Down Dig Change Page	ital key Sø ,Enter key	CO: elec ; PU PD Confirm	to	
Press 0 9 to i	nput number	of stitches of	of the dividi	ng point, pre	ess

to save the

divided pattern. Then the pattern number (automatically designated) saved in memory will be shown on the screen. See the figure below:

> Partion Memory Design 2006-06-18 16:05 ①#001:LMNOPDRT.MEM 8512 2#002:QINGDAOW.MEM 18865 ③#003:DUILIESY.MEM 986 @#004:1<u>Input</u> ⑤#005:JMessage @#006:1 Partion FlowerNO.: 18: 19 ⑦#007:Z 80.8mm Enter Esc ⑧#008:L 80.8mm 9#009:A 51.5mm 8788 51.5mm -Y: CO: 5 Up Down Digital key SelectPU PD to Change Page, Enter key Confirm

Press

to save, upon completion, the system will automatically return to the Divide Pattern menu, where you can continue to divide patterns.

3.8 Combine Patterns

In the Pattern management menu, press \bigtriangleup $\overline{\mathbb{V}}$ to move the cursor or $\overset{(8)}{\longrightarrow}$ to select the operation and then press —, see the figure below:

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I P I I I I I I I I I I I I I I I I I I	
	Combine Memory Design 2006-06-18 16:05
	①#001:LMNOPDRT. MEM 8512 ②#002:QINGDAOW. MEM 18865 ③#003:DUILIESY. MEM 986 ④#004:12345678. MEM 8975 ⑤#005:JIANSHEA. MEM 25896 ⑥#006:TAIZHIKJ. MEM 12888 ⑦#007:ZHONGGUO. MEM 38988 ⑧#009:AAAAAAAA. MEM 18788 ⑨#010:BBBBBBBB. MEM 8788 ✓ -Y: 51.5mm CO: 5
	Up Dow Or Digital Key Select,
	>> Choose Flower, Enter Confirm
Press Press to	turn the page up and down, press 🔊 🔻 to move the cursor or
9 to select patterns	to be combined and then press $\stackrel{\frown}{\blacktriangleright}$ to confirm the patterns, see the
figure below:	
	Combine Memory Design 2006-06-18 16:05
	①#001:LMNOPDRT.MEM 8512 ②#002:QINGDAOW.MEM 18865 ③#003:DUILIESY.MEM 986 ④#004:12345678.MEM 8975 ⑤#005:JIANSHEA.MEM 25896 ⑥#006:TAIZHIKJ.MEM 12888 ⑦#007:ZHONGGUO.MEM 38988 ⑧#008:LONGFENG.MEM 28966 ⑨#009:AAAAAAAA.MEM 18788 ⑩#010:BBBBBBBB.MEM 8788 # 001#005#008#010#012#15 CO: Up Dow Or Digital Key Select, >> Choose Flower, Enter Confirm
After selection, pres	s 🗾 to enter the Pattern Combination Parameters Setting menu, see
the figure below:	
	Combine Memory Design 2006-06-18 16:05

Combine	Memo	ory D	lesign	200	6-06-18	16:05
	DIR.	Angl	ZX	ΖY	X Intv	Y Intv
#001	F	0	100	100	0.0	0.0
#005	F	0	100	100	0.0	0.0
#008	F	0	100	100	0.0	0.0
#010	F	0	100	100	0.0	0.0
#012	F	0	100	100	0.0	0.0
#015	F	0	100	100	0.0	0.0
	Digi Dire	ital, ection	>> or +- n key Se	-Key In elect	put	

Press \bigtriangleup \blacksquare \blacksquare \blacksquare to select parameter to be set, you need not to set the transition

value for the first pattern. Press to change the direction of the pattern, press **0**. **9** to



modify other data. After setting parameters of each pattern, press —, a dialog box will pop up

to prompt inputting the number of pattern in memory, see the figure below:



Press to save, upon completion, the system will automatically return to the Combine

Patterns menu, where you can continue with the combination of patterns.

3.9 Delete All Patterns

This function is only valid in the Embroidery Preparation status.

In the Pattern mana	igement menu, press 🧷	to move the	cursor or 9	to select the
operation and then press	s , see the figure b	elow:		
	Design Management ①Select Design for ②Input Design to Mail ③Output Design to Mail ④Copy Message ⑤Repa ⑥Dele ⑦Divio ⑧Comb ⑨Dele Memory Design M Press Up, Down or Di Press Enter key Con	2006-06-18 16: Embroidery emory Memory ne File? Esc Number: 18 gital key to Selec firm	: 05 : t	

Press to delete all, upon completion, the system will automatically return to the Pattern

Management menu.

Part 4 Auxiliary Functions

Auxiliary functions are available in both the Embroidery Preparation menu and Embroidering Pattern menu, while some functions are limited in different status. Auxiliary functions include settings for magnifying, rotation, repetition and positioning idling, setting of pattern contour, offset point and the origin of the embroidery frame, restoring operation of the embroidery frame after power cut, machine parameter settings, creating a new pattern by shifting the frame, beeline operation, language support, shifting the frame when stopped at the lower position, cyclic embroidery setting, system testing, system management, canceling user limitation and system information, etc.

In any menu, press to enter the auxiliary management menu, see the figure below:

Embroidery Preparation Status
Assistant Management 2006-06-18 16:05
①Set Zoom, Rotate, Repeat ③Float operation ③Design Contour Operation ③Offset Positon Set ③Set Frame Origin ③Retore Frame After Power off ⑦Set Machine Parameter ⑧Move to Generate design ③Line Embroider ⑪语言 (LANGUAGE)
Press Up,Down or Digital key to Select Press Enter key Confirm

Embroidering pattern status

Assistant Management 2006-06-18	3 16:05
⊗Set Zoom, Rotate, Repeat	
②Float operation	
③Design Contour Operation	
④Offset Positon Set	
⑤Set Frame Origin	
©Retore Frame After Power off	
⑦Set Machine Parameter	
⊗Move to Generate design	
9Line Embroider	
⑩语言 (LANGUAGE)	
Proce Un Down or Digital key to	Salaat
Press Up, Down of Digital Key to	Serect
Press Enter key Confirm	

Press

to turn the page up and down.

Embroidery Preparation Status/Embroidering Pattern status

Assistant Management	2006-06-18	16:05
 ①Frame Software Limit ②Mve Frame For Needle ③Set Repeat Embroidery ④System Test ⑤System Management ⑥Unfreeze User Lim it ⑦System Information 	Set Down y	
Press Up,Down or Digit Press Enter key Confir	al key to S m	Select

4.1 Setting Magnifying, Rotation and Repetition (Pattern Parameters)

This operation is only available in the Embroidery Preparation Status.

In the Auxiliary Mana	agement menu, press 🔺	to move the curse	or or 1 to select the	
operation and then press	, see the figure belo	W:		
	Design Parameter	2006-06-18 16:05		
	①Rorate Angle:	0		
	②X Scale (50-200%):	100		
	③Y Scale (50-200%):	100		
	<pre>④Repeat Mode:</pre>	Norma 🔻		
	⑤Prority:	X DIR 🔻		
	©X Repeat Times:	1		
	⑦Y Repeat Times:	1		
	<pre> ⑧X Interval : </pre>	0.0		
	(9)Y Interval :	0.0		
	Digital, >> or +-	-key Input		
l	Direction key S	elect		
Press 🔺 👿 to select the data to be modified, press 🎃 to modify the mode of repetition				
and the direction of priority, press 9 to modify other data, the unit for the transition				
value is mm. For instance, if the required transition value is 100mm, you must input 1000, then				
press + to modify the positive/negative value of the transition value. After the modification,				
press and the system will automatically return to the Auxiliary Management menu.				
4.2 Idling				
This operation is only	y available in the Embroide	ering pattern status.		
Positioning idling inc	ludes 4 operations of addir	ng/reducing specified n	umber of stitches, going	

to the next/previous color.



This operation is available in both the Embroidery Preparation status and the Embroidering

Pattern status.

Pattern Contour includes Embroidering Pattern Contour and Creating Pattern Contour.

In the Auxiliary Mana	gement menu, press 🔺	to move the c	cursor or (3)	to select the
operation and then press	, see the figure bel	ow:		
	Design Contour	2006-06-18 16:0	5	
	①Embroidery Design(②Generate Design Con	Contour ntour		
-	Pross Un Down or Dig	ital kov to Salaat		
	Press Enter key Conf	irm		
4.3-1 Embroidery Patter	n Contour			

This operation is only available in the Embroidering pattern status.

In the Pattern Con	tour menu, press 🔺 🖲	to move the curs	sor or 1 to select the
operation, Press	to start creating the pattern	n contour, see the fig	ure below:
	Design Contour ①Embroidery Design Con ②Generate Design Con Message Generate Conto Press Up, Down or Digi Press Enter key Confi	2006-06-18 16:05 Contour Itour Dur	

After the contour is created, the system will automatically turn to the Embroidering Pattern

menu, waiting for pulling the bar for mebroidery.



4.3-2 Creating Pattern Contour

This operation is only available in the Embroidery Preparation Status.

In the Pattern Contour menu, press \bigtriangleup $\overline{\mathbb{V}}$ to move the cursor or $\stackrel{ extsf{2}}{ extsf{2}}$ to select the	е
operation and then press —, see the figure below:	
Design Contour 2006-06-18 16:05	
①Embroidery Design Contour ②Generate Design Contour Message Generate Contour	
Press Up, Down or Digital key to Select Press Enter key Confirm	

After the contour is created, the system will automatically turn to the Save Pattern menu.

Design Contour 2006-06-18 16:05
①Embroidery Design Contour
@Generate Design Contour
Input
Design Memory NO.:
Enter Esc
Proce Up Down or Digital koy to Salast
Press Enter key Confirm

Press to save the pattern, and the system will automatically return to the Auxiliary

Management menu.

4.4 Set violation point (Another Starting Point)

This operation is only available in the Embroidering pattern status.

The purpose of setting the offset point is mainly to facilitate the collection of embroidering

materials and placement of patches, before setting the offset point, the starting point must be defined.

In the Auxiliary Management menu, press 🖉	to move the cursor or 4 to select the
operation and then press, see the figure be	elow:
Working Status	2006-06-18 16:05
Message Move to Offset Press Enter Key! Enter Esc	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750 Time: 0:00:00 Number: 0 1 01 2 AX: + 0.0 AY: - 0.0
	▶ 100°
Shift the frame to the offset point according t	o the prompt and then press to complete

the setting of the offset point.

4.5 Set Origin point of the Embroidery Frame

This operation is available in both the Embroidery Preparation Status and the Embroidering Pattern Status.

The setting of the origin of the embroidery frame includes manual setting of the origin and searching for the absolute origin.



· ·		2		
	Frame Origin	2006-06-18 16:05		
	①Manual Set Frame Or	rigin		
	②Auto Find Frame Ori	igin		
	Press Un Down or Dig	vital key to Select	-	
	Press Enter key Conf	irm		
4.5-1 Manual set frame	origin			
	U			
In the Embroiderv F	rame Origin menu, press	to move the	e cursor or	to select
, , , , , , , , , , , , , , , , , , ,				
the operation and then p	ress 🗾, see the figure	e below:		
	Frame Origin	2006-06-18 16:05		
	①Manual Set Frame On	rigin		
	②Auto Find Frame Ori	igin		
	Message			
	Manual Cat O			
	lose Frame Pr	rigin, will rotection?		
	Enter	Esc		
		· 11	_	
	Press Up, Down or Dig Press Enter key Conf	ital key to Selec t Tirm		
			-	

Press to complete the operation for setting the origin of the embroidery frame.

4.5-2 Auto find Frame origin

The absolute origin is the absolute position to detect the lower right corner of the embroidery frame with the limit of the embroidery frame, which can ensure correct continued embroidery by restoring the operation of the embroidery frame after power cut in case of any accident during the embroidery.

This function is carried out by system automatically, it must be confirmed that the limit sensor work effectively, otherwise, it may cause damage of the mechanical components!

In the Embroidery Frame Origin Me	nu, press 🔺 👿	to move the c	cursor or 2	to select
the operation and then press , see	the figure below:			

Frame O	rigin	2006-06-18 16:05
(1)Man	ual Set Frame Orig	in
(2)Aut	o Find Frame Origi	n
	Message	
	Limit Switch Work	Normal?
	Enter	Esc
Press	s Up,Down or Digita	al key to Selec t
Press	s Enter key Confirm	1

Press to start auto searching of the absolute origin of the embroidery frame, upon

completion, the embroidery frame will automatically return to the stop point before the searching.

4.6 Restore the Frame Location when Power off

This operation is only available in the Embroidering pattern status.

This operation can only be used after the searching of the absolute origin described in 5.5.

This function is invalid unless the absolute origin operation has been carried out.

In the Auxiliary Management menu, press 🔺 $\overline{\mathbb{V}}$ to move the curso	r or 6 to select the
operation and then press, see the figure below:	
Assistant Management 2006-06-18 16:05 ※Set Zoom, Rotate, Repeat ④ ②Hollow Embridery ③ ③Flower Contour Operation ④ ④ Message ● ⑤ Reatore the Frame For Power Off? ⑦ Enter Esc ⑨ Orientation Operation ● ⑨ Grientation Operation ● ⑦ Fress Up, Down or Digital key to Select Press Up, Down or Digital key to Select Press Enter key Confirm	

Press , the embroidery frame will start auto searching for the absolute origin, and then it will move to the embroidery position before the power cut and stop there. The embroidery can be continued if you pull the bar for starting the machine.

4.7 Set Machine Parameters

This operation is available in both the Embroidery Preparation Status and the Embroidering Pattern Status.

In Machine Parameters menu, you can set embroidering parameters or mechanical parameters, change password of mechanical parameter, restore embroidering parameters or set the frame shifting curve.



4.7-2 Set Mechanical Parameters

This should only be used by professional personnel, others are prohibited to modify them without permission, or the machine may work abnormally.

4.7-3 Set Password for Mechanical Parameters

This should only be used by professional personnel, others are prohibited to modify them without permission, or the machine may work abnormally

4.7-4 Restore Embroidering Parameters

When leaving the factory, the embroidering parameters of this system are set to meet the requirements of most users, if after setting the embroidering parameters, the embroidery effect is worse that before, you can restore the embroidering parameters to the status before the user's settings.

In the Machine Parameters menu, press 🔺 🔻 to move the cursor or 4 to select the
operation and then press, see the figure below:
Machine Parameter 2006-06-18 16:05 ①Set Embroidery Parameter ②Set Machine Parameter ③Set Machine Parameter Passwrod ④ Message ⓒ Restore Embroidery Parameter? Enter Esc
Press Up, Down or Digital key to Select Press Enter key Confirm

Press to restore embroidering parameters.

4.7-5 Set Frame Shifting Curve

This should only be used by professional personnel, others are prohibited to modify them without permission, or the machine may work abnormally.

4.8 Shift the Frame to Make New Pattern

This operation is only available in the Embroidery Preparation Status. This function is mainly used to facilitate the positioning of embroidering materials.





transition function (upon prompt in the dialog box) and then press . Repeat the operation above till the completion. Press , a pop-up menu will appear to prompt the number of the pattern saved in memory, the pattern number is created by the system automatically, see the figure below:

Working Status	2006-06-18 16:05
Message Memory Flower No.:8 Enter Esc II III F► 1	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750 Time: 0:00:00 Number: 0 Total ST: 0 1 001 2 AX: + 0.0 100° 0 0

Press **to** save the pattern.

4.9 Embroider beeline Operation

This operation is only available in the Embroidering Pattern Status. This function is mainly used to facilitate the positioning of embroidering materials.

There are 3 operations: embroidering the beeline, embroidering right angle line and embroidering cross line.



4.9-1 Embroider beeline

Embroidering Beeline is to set straight line embroidery for positioning operation through

manual shifting of the frame.
In the Beeline Operation menu, press 🛦 $\overline{\mathbb{V}}$ to move the cursor or $\widehat{\mathbb{I}}$ to select the
operation and then press, see the figure below:
Working Status 2006-06-18 16:05
Message Move to Start, Press Enter Esc 0 1 001 1 100° 1 100°
Press 🔊 🛡 🔍 🕨 to shift the frame to the starting point of the beeline and then press
to enter the next step, see the figure below:
Working Status 2006-06-18 16:05
Message Move to End Press Enter Esc 0 1001 1001 1001 1001 1001 1001 1001 1001 1001 1001 1001 1001 1001
Press \bigtriangleup \bigtriangledown \checkmark \checkmark \checkmark to shift the frame to the end point of the beeline and then press
to complete the setting of the end point of the beeline. After the setting, you can pull the bar

for embroidery.

4.9-2 Embroider Right Angle Line


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Computer Operation Manual for PTCS-05 Series Embroidery Machine				
Orientation Operation 2006-06-18 16:05 ①Emboidery Beeline ②Embroidery Line ③Embroidery Cross Line Input Input Input Input Y:0.0 Enter Esc Press Up, Down or Digital key to Select Press Enter key Confirm O 9 to select inputting in the X or X direction press				
distance in X or Y direction, press + to change the direction of embroidery, press upon				
completion, press \bigtriangleup \bigtriangledown \checkmark \checkmark to shift the frame to the intersection of the right angle lines				
and then pull the bar for embroidery.				
4.9-3 Embroider Cross Line				
In the Beeline Operation menu, press $\bigtriangleup \nabla$ to move the cursor or 3 to select the operation and then press \square see the figure below:				
Orientation Operation 2006-06-18 16:05 ①Embooidery Beeline ②Embroiderv Cross Line ③Embroiderv Cross Line Input Input Input Input X; Y Length: X: 0.0 Enter Esc Press Up, Down or Digital key to Select Press Enter key Confirm Press Inputting in the X or Y direction, press				
length and width of the cross line and then press \blacksquare for confirmation, press \triangle \heartsuit \blacktriangleleft				
to shift the frame to the center of the cross line and then pull the bar for embroidery.				
4.10 Languages				
This system supports Chinese and English menus.				
In the Auxiliary Management menu, press 🔊 ${f V}$ to move the cursor or ${f O}$ to select				
33				

the operation and then p	ress —, see the figure below:
	Assistant Management 2006-06-18 16:05
	①Set Zoom, Rotate, Repeat ⊗Hollow Embridery ⊗Flower Contour Operation ⊗Offs Select ⊗Set F ③Reto ⑦Set N ⑧Move 些Inter Esc ⑩语言(LANGUAGE)
	Press Up, Down or Digital key to Select Press Enter key Confirm
Press 🔺 👿 to	, move the cursor or \bigcirc or \bigcirc to select language and then

press . The menu will automatically be switched into the selected language.

4.11 Shift the Frame When Stopping at Lower Position

During batch embroidery that requires frame shifting when the needle stopped at the lower position, it can be achieved through the following operation:

The frame can only be shafted when main shaft is within 160°-180°.

Note: make sure to release all clamps used to fix the embroidery materials, otherwise, the needle may be broken and the material may be damaged.

In the Auxiliary Management menu, press $\stackrel{}{}$ to turn to the next page, press 🔺 \bigvee to
move the cursor or $\textcircled{1}$ to select the operation and then press $\fbox{1}$, see the figure below:
Working Status 2006-06-18 16:05
Message Main Axis not at 100° Moving? Enter Esc 0 1001 2 AX: + 0.0 AY: - 0.0
If you are sure to shift the frame, press 💭 for manual shifting of the frame.
4.12 Set Cyclic Embroidery

In the Auxiliary Management menu, press

to turn to the next page, press $\bigtriangleup \overline{\mathbb{V}}$ to



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move the cursor or	to select the operation and then press , see the figure below:
	Assistant Management 2006-06-18 16:05 ①Mve Frame For Needle Down Image: Comparison of the second
	Press Up, Down or Digital key to Select Press Enter key Confirm

Press to set cyclic embroidery. You can cancel the cyclic embroidery by repeating the above operation once. This can also be set in Embroidering Parameters.

4.13 System Test

This function should only be used by professional personnel of installation and maintenance,

do not try it by yourself.

4.14 User Management

This should only be used by professional personnel, others are prohibited to modify them without permission, or the machine may work abnormally.

4.15 Cancel User Limitation

Before expiry of the limitation, if you have the password for canceling the limitation, you can cancel the limitation following the prompts.

In the Auxiliary Man	hagement menu, press $\overset{\textcircled{PU}}{\textcircled{PU}}$ to turn to the next page, press 🔺 \blacktriangledown to
move the cursor or 5	to select the operation and then press , see the figure below:
	Assistant Management 2006-06-18 16:05 1)Mve Frame For Needle Down (2)Set Repeat Embroidery (3)System Check (4)Syst Message (5)Unfr No. :TZA67018 (6)Syst Enter Esc
	Press Enter key Confirm

If the machine is not limited, the system will prompt "machine limitation cancelled", if the

limitation is not cancelled, the Cancel Limitation menu as shown above will appear, the digit represents the times for the limitation password, the user can receive the password from the manufacturer by providing the manufacturer with the times before canceling the limitation and

the serial number of the machine (please refer to the system information). Press

to input the password and press for confirmation, if the password is correct, system will give prompt, then the limitation has been cancelled, otherwise, error message will be given.

O

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If the limitation of the machine expires during the operation, The system will lock the machine and ask the user to input password for canceling the limitation, see the figure below:



Input the password provided by the supplier to cancel limitation of the machine.

4.16 System Information

The system information includes: Machine number, version information, serial number, system upgrading and manufacturer information.

In the Auxiliary Mar	nagement menu, press	to turn to	the next pa	age, press		to
move the cursor or	to select the operation an	nd then press	, see	e the figure	below:	
	System Information	2006-06-18	16:05			
	 ③Equipment Name ④Version Infomation 					

(2)11 Set
③Equipment Name
(4) Version Infomation
⑤System No.
©System Update
7 Factory information
Press Up,Down or Digital key to Select
Press Enter key Confirm

4.16-1 Machine Number

The machine number is the sole number the user set for each machine when multiple machines are combined together for communication with PC for pattern management. Press 1 to enter the Machine Number menu, where you can see the machine number of the machine, the default number is 1. Press 1 to set the machine number, a small keyboard dialog box will pop up, press 1 1 1 to select one letter and press 1 to select and input the letter into the text box. After the setting, press 1 to save it.

4.16-2 IP setting.

Set the IP address of this system, you only can modify the last number, the system only support max 256 sets of internet connection equipments, address range0-255.

4.16-3 Machine names:

Setting method refers to the machine serial numbers.

4.16-4 Version Information

This function is used to check the version information of the software of the system.

4.16-5 Serial Number

Press

This function is used to check the serial number of the motherboard of the system.

4.16-6 System Upgrading

You can get the software of the latest version of the control system from the supplier to get some upgraded new functions.

Before the upgrading, please insert the U-disc storing the same upgrading files to the current system into the USB interface.

The upgrading files must be placed in the root directory of the U-disc.

In the System Information menu, press \bigtriangleup $\overline{\mathbb{V}}$ to move the cursor to select the operation and

then press *the system shows that the current software will be upgraded.*

Press and the system will prompt whether to upgrade, see the figure below:

to start upgrading, pay attention to the prompts in the dialog box.

The upgrading lasts about 5 minutes, do not cut the power or plug the U-disc out during the

upgrading.

Upon completion of the upgrading, the menu will automatically turn to the Disc Operation menu.

4.16-7 Manufacturer Information

This function shows related information of the manufactures.

Part 5 Embroidering Status

There are two statuses of embroidery: Embroidering Pattern status and Embroidery Preparation Status, both can be switched by pressing the "Embroidery Preparation" key.

In the Embroidering Pattern status, the user can carry out operations related to the embroidery; In the Embroidery Preparation Status, the user can set embroidering parameters for the pattern to be embroidered or return to the Pattern Management menu.

5.1 Switching between the Embroidery Preparation Status and the Embroidering pattern status

5.1-1 Embroidery Preparation Status→ Embroidering pattern status

After selecting the pattern from the memory, the system will enter the Embroidery Preparation menu, see the figure below:



Press , a pop-up menu will appear to prompt whether to enter the Embroidering Pattern status, see the figure below:

	Working Status	2006-06-18 16:05	
	Message Enter EMB Status? <u>Enter Esc</u>	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750 Time: 0:00:00 Number: 0 Total ST: 0 1 001 2 AX: + 0.0 AY: - 0.0	
	₩ ₩ ™ F → 1	100°	
Press 🚺 to enter	the Embroidering Patter	n status, press	to return to the
Embroidery Preparation Sta	tus menu.		

5.1-2 Embroidering pattern status -> Embroidery Preparation Status

Please see the figure below for the Embroidery Status menu:

Working Status	2006-06-18 16:05
	001#ABCD1234 <u>25600</u> REP.:X:01Y:01 Speed: 750 Time: 0:00:00 Number: 0 Total ST: 0 <u>1001</u> <u>2</u> AX: + 0.0 AY: - 0.0
II 🗛 🛄 F ►	100°

In the Embroidery Status menu, press and a dialog box will pop up, inquiring whether to enter the Embroidery Preparation Status, see the figure below:

Working Status	2006-06-18 16:05
Message	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750
Leave EMB Status?	Time: 0:00:00 Number: 0 Total ST:
<u>Enter</u> <u>Esc</u>	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	100°
	ES

Press to enter the Embroidery Preparation Status, press to return to the Embroidering Pattern status.

5.2 Embroidery Preparation Status

In the Embroidery Preparation Status, you can set parameters of the pattern to be embroidered including direction, rotation, magnifying and repetition etc..

The pattern parameters can be set as required, or you can directly enter the Embroidering Pattern status without setting the parameters.

5.3 Embroidery Running Status

In the Embroidery Running Status, only the operation for the lifting speed of the main shaft is available.

Press or broken to increase or decrease the rotating speed of the main shaft, press

to select high or low speed of lifting.

5.4 Start and stop embroidering

After setting all parameters related to the embroidery, you can start embroidering

Under the Embroidering pattern status, when the machine stops: Press "start" button to start embroidering job ,press "stop "button to back stitch

Under the Embroidering pattern when back stitching: press "stop "button to stop back stitching.

Under the Embroidering Pattern status, when machine running: Press "start" button more than 3 seconds, the main shaft will start embroidering job at the minimum speed; press "stop "button to stop embroidering job.

5.5 Machine Head Indicator lights

when working status, the indicator light is green.

Encountering thread break while embroidering, the indicator light will be red

5.6 Switch Control and Indicators of the Sequin Machine Head

When turning the switch from the upper position to the middle position, the indicator is green and the undercarriage is set down (the machine lock is unlocked), turn the switch downward once, the sequin motor will send out the sequin once; turn the switch downwards and hold for above 2 seconds, the indicator will turn orange, release the switch, the undercarriage will automatically rise (when air pressure exits).

When the switch is at the middle position and sequin embroidery has not started, the indicator is orange and the undercarriage is at the upper position, waiting for sending the sequins. When sequin embroidery is started, the undercarriage will be set down automatically and the indicator will turn green.

When the sequin machine head switch is at the upper position, the indicator will go out and the undercarriage is turned off (the undercarriage will automatically rise upon air pressure).

Part 6 Hat frame switch

Under embroidering preparation status, press "hat frame switch "button,(attention: before this operation, please confirm whether you install the mechanical parts of hat frame, or it will cause mechanical parts damages). if now it is in the the state of adult clothes embroidering mode , it will be switched to hat frame embroidering mode, displaying "whether switch to hat frame embroidering mode", press "enter" button, after embroidering frame finding out the absolute origin point , finally stop at that central position.

if now it is in the the state of hat frame embroidering mode, it will be switched to adult clothes embroidering mode, displaying "whether switch to adult clothes embroidering mode", press "enter" button, after embroidering frame finding out the absolute origin point, finally stop at that position.

Part 7 Set Pattern Directions

In the Embroidery Preparation Status, press to change the direction of the pattern. Each time you press the key, the direction will be changed once.

There are 8 directions available: 0° (default), 90°, 180°, 270°, 0° mirror, 90° mirror, 180° mirror, 270° mirror, which are cyclic.

Part 8 Color Changing Settings

When the pattern embroidery is automatically started in the auto color changing mode, before the embroidery, you need to set the color changing order. If the order is not set, the system will start embroidery according to the color changing order for embroidering the previous pattern. If none of the needles related to the color changing order are set, the system will carry out mono-color embroidery with the current active needle. When multiple times of color changing are carried out by several needles repeatedly, you only need to set one circulation of color changing and the system will automatically repeat it. Currently, the system can support up to 200 times of color changing.

In the Embroidering Pattern status, press to enter the Color Changing Settings menu, see the figure below:



8.1 Setting Order of Color Changing (Needles) and Patching Embroidery

In the Color Changing Settings menu, press 🔺 🖤 to move the cursor or

to select

the operation and then press —, see the figure below:

Set S	Stitch	Color		20	06-06-	-18 16	:05
001	2 002 5	5 003	4 004	6 005	8 006	007	
008	009	010	011	012	013	014	
015	016	017	018	019	020	021	
022	023	024	025	026	027	028	
029	030	031	032	033	034	035	
036	037	038	039	040	041	042	
043	044	045	046	047	048	049	
050	051	052	053	054	055	056	
057	058	059	060	061	062	063	
064	065	066	067	068	069	070	
Press Digital key to Select							
	Press Enter key Confirm						

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 $001 \sim 200$ indicates the times of color changing, when the menu is opened, the cursor will automatically start following the order of the last color changing setting, press 0. 9 to input the needle number corresponding to the current color changing order. If there are over needles, press 4 for the operation (e.g., if there are 10 needles, press 4, 0 key for Color Changing Settings to operate), the cursor will automatically move to the next color changing order. During the setting, if the previous needle number is wrong, press 2 1 to move the cursor to the position of the wrong needle number for modification.

If any color changing needle needs frame shifting for patching offset (patching embroidery), move the cursor to the required needle and press once, the background of the current needle number will turn red. To cancel the frame shifting for patching offset setting, just press again. Press to save the current setting, in this function, the system will save the data prior to the location of the cursor.

In the Embroidering Pattern menu, the background of the needles with frame shifting for patching offset in the color changing order is red, and that of needles without frame shifting for patching offset is yellow.

8.2 Needle Replacement

This function is mainly used to modify a certain needle in all color changing sequences once

and for all. In the Color Changing Setting menu, press \bigtriangleup v to move the cursor or

select the operation and then press to enter the Modify Color Changing Setting menu, see the figure below:

			Set Stitch Color	2006-06-1	18 16:05			
			①Set Color Order					
			<pre>@Replace Stitch ③Modify Stitch ④Patc Input</pre>					
			ST A Chang B: 1	ge ST B A:1				
			Enter	Esc	,			
			Deces a Lin Decement	Distal have to	0.1.4			
			Press Up, Down or Press Enter key (Digital key to Confirm	Select			
Press	0	9 to	input the needle to be	e replaced, and tl	hen press	0	9 to in	put

the needle to be used and then press to complete the replacement of needle.

8.3 Needle Modification

Upon completion of color changing settings or if it's required to modify a certain needle during the embroidery, you can use this function for modification.

If any color changing needle needs frame shifting for patching offset (patching embroidery), move the cursor to the required needle and press once, the background of the current needle number will turn red. To cancel the frame shifting for patching offset, press once again.

Part 9 Color Changing Modes

Color changing modes means the mode used by the machine during the embroidery to carry out color changing modes.

There are 3 color changing modes: automatically started auto color changing, manually started auto color changing and manually started manual color changing.

Manually started auto color changing and manually started manual color changing are only valid for the currently embroidered pattern, after changing the pattern or the machine is powered on again, it will automatically return to the automatically started auto color changing mode.

In the Embroidering Pattern Status, each time you press the embroidery mode will be changed once. See the figure below:

Working Status	2006-06-18 16:05
	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750 Time: 0:00:00 Number: 0 Total ST: 0 1 001 2 AX: + 0.0 AY: - 0.0
‼ I≜I ഈ F ▶	· 100°

Manually Started Auto Color Changing

Manually Started Manual Color Changing

Working Status	2006-06-18 16:05
	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750 Time: 0:00:00 Number: 0 Total ST: 0 1 01 1 01 2 AX: + 0.0 AY: - 0.0
II III	▶ 100°

Working Status	2006-06-18 16:05
	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750 Time: 0:00:00 Number: 0 Total ST: 0 1 001 2 AX: + 0.0 AY: - 0.0
II 💵 📰 F ▶	100°

Automatically Started Auto Color Changing

Part 10 Return to the Stop Point

When the embroidery stops at mid way, after manually shifting the embroidery frame, if you

need to return to the stop point of embroidery, you can in press to return to the stop point in the Embroidering Pattern Status.

Part 11 Idle embroidery Switch

The purpose of idle embroidery operation is to realize the embroidery repairing.the user can move the embroidery needle tracking to the specific position through idle embroidering.in the

Embroidering Pattern Status, press to switch to the idle embroidering status. There are 3 statuses: low-speed, hi-speed idling and normal embroidery. See the figure below:

Working Status	2006-06-18 16:05
	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750 Time: 0:00:00 Number: 0 Total ST: 0 1001 2 AX: + 0.0 AY: - 0.0
	• 100°

Hi-speed idling status

Pull the bar rightwards (hi-speed idling forward) once, the main shaft and the embroidery frame stay still, the number of stitches of the embroidery ascends, after pulling the bar leftwards to stop the machine, the embroidery frame will directly move to the position of the forward needle tracking.

Pull the bar leftwards (hi-speed idling backward) once, the main shaft and the embroidery frame stay still, the number of stitches of the embroidery descends, after pulling the bar leftwards to stop the machine, the embroidery frame will directly move to the position of the backward needle tracking.



low-speed idling status

Pull the bar rightwards (low-speed idling forward) once, the main shaft and the embroidery frame stay still, the embroidery frame will move forwards along the embroidery needle tracking, and the pull the bar leftwards to stop the low-speed idling.

Pull the bar leftwards (low-speed idling backward) once, the main shaft and the embroidery frame stay still, the embroidery frame will move backwards along the embroidery needle tracking, and the pull the bar leftwards to stop the low-speed idling.

Part 12 Manual Trimming

Manual trimming can be used to trim both the upper thread and the bottom thread at the same

tome or only the bottom thread.

In the Embroidering Pattern Status, press 🕅 to carry out manual trimming.

Part 13 Origin point Operations

There are 5 functions of the origin point operations: Returning to the origin, Returning to the

offset point, setting the origin, auto searching of the origin and limit checking.

In the Embroidering Pattern Status and then press , see the figure below: Working Status 2006-06-18 16:05

WOIKINg Status	2000 00 18 10.03
Select DBack Start	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750
⊘Back Offset ③Set Start ⊗Find Start Point ⑤Flower Scope Check	Time: 0:00:00 Number: 0 Total ST: 0
Esc	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

13. 1 Return to the Origin point

During the embroidery, if you need to terminate the embroidery and return to the origin to start

new embroidery, the following operations should be followed.

In the Origin Operations menu, press 🔺 $\overline{\mathbb{V}}$ to move the cursor or press 1 and then

press , a pop-up dialog box will prompt you whether to terminate the embroidery and return to the origin, see the figure below:



Press

to return to the origin.

13. 2 Return to the violation Point

During the embroidery, if you need to terminate the embroidery and return to the offset point

to start new embroidery, the following operations should be followed.

In the Origin Operations menu, press 🔺 $\overline{\mathbb{V}}$ to move the cursor or press $\stackrel{(2)}{\longrightarrow}$ and then

press , a pop-up dialog box will prompt you whether to terminate the embroidery and return to the offset point, see the figure below:



Press

to return to the offset point.

13. 3 Set the origin point

After selecting the pattern and entering the embroidery status, the user can set the starting point of embroidery by setting the origin.

In the Origin Opera	tions menu, press 🔺 👿	to move the cursor	or press 3	and then
press 🖳, see the figu	ure below:			
	Working Status	2006-06-18 16:05		
	Select Message Start Position Has Set Home Key to Start Enter Key Reset <u>Esc</u> <u>Esc</u> F >>	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750 Time: 0:00:00 Number: 0 Total ST: 0 1001 2 AX: + 0.0 100° 0 0		

If the origin has been set before, a pop-up dialog box will prompt you whether to return to the

preset origin or to reset it, press

to reset the origin.

13. 4 Auto Searching of the Origin (Limited Function)

This function is only available after setting the software limit.

13. 5 Limit Checking

After setting the starting point, if you need to check if the embroidery range of the pattern exceeds the working area or if the currently set starting point will result in limit of position, you can use this function.

press to start checking.

In case the embroidery frame is not at the starting point, the system will automatically return to the origin and start limit checking, if the current pattern has not been designated an origin, the limit checking will be started directly, during the checking, if the currently designated staring point will result in position limit, the system will automatically adjust it and automatically designate the adjusted position as the starting point; if the pattern exceeds the embroidery range, a error message indicating the pattern exceeds the embroidery range will pop up.

Part 14 Shift the Embroidery Frame

In the Embroidering Pattern Status or in any other case when frame shifting is needed, press



 $\textcircled{\ } \textcircled{\ } @\ } @\ } @\ \\ \end{array}{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } @\ \\ \end{array}{\ } \textcircled{\ } \textcircled{\ } @\ \\ \end{array}{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } @\ \\ \end{array}{\ } \textcircled{\ } \textcircled{\ } @\ \\ } @\ \ \\ \end{array}{\ } \textcircled{\ } \textcircled{\ } @\ \ \\ } @\ \ \\ \end{array}{\ } \textcircled{\ } \textcircled{\ } \textcircled{\ } @\ \ } @\ \ \ \ } \r{\ } \r{\$

Part 15 Change Color Manually

In the Embroidering Pattern Status, in the non-operation status of the system, directly press



0 to carry out manual color changing.

Part 16 Inching

This function is available in both the Embroidering Pattern Status and Embroidery Preparation

status for stopping the positioning of the main shaft.

Press to carry out inching, see the figure below:



Then you can carry out inching operations as required.

Part 17 Clearing Operations

This function is available in both the Embroidering Pattern Status and Embroidery Preparation

status.

Press CL

to carry out clearing, see the figure below:

	Working Status	2006-06-18 16:05				
	Select ①Clear Stastic ②Clear X, Y <u>Esc</u> It AN 5TOP F >>	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750 Time: 0:00:00 Number: 0 1001 2 AX: + 0.0 100°				
17.1 Clearing Statistic	CS					
In the Clear Statisti	cs menu, press 🖄 👿 t	to move the cursor or press $\textcircled{1}$ and the	ən			
press , see the figu	ire below:					
	Working Status	2006-06-18 16:05				
	Message Clear Statistic? <u>Enter</u> <u>Esc</u>	001#ABCD1234 25600 0 REP.:X:01Y:01 Speed: 750 Time: 0:00:00 Number: 0 Total ST: 0 1 01 2 AX: + 0.0 AY: - 0.0				
	11 🛤 🛄 F 🍉	100°				
Press to clear statistics.						
17.2 Clearing Displa	cement					
In the Clear Operati	ons menu, press 📥 🔍	to move the cursor or press 🥍 and the	ən			
press to clear disp	placement. And the coordina	ates of the X-axis and the Y-axis are zeroed				

Part 18 System Initialization

System initialization is to clear all patterns in the memory.

After the **icon** is shown on the machine, press **O** for 3 times, after the system initialization,

the buzzer will ring "Di, Di, Di", and the system will automatically enter the Import Pattern menu.

Part 19 PC internet connections

19.1 install PC software

Before connecting embroidery control system and PC, you must install PC communication software, (install our EMB_soft.exe software), after finishing installation, there will be short-cut icon of communication software in the PC desktop.

19.2 set IP

19.2-1 Set IP of PC

The IP of PC is 192.168.0.1, or it will not be connected normally.

19.2-2 set IP of embroidery control system

The IP of embroidery control system is 192.168.0.2-192.168.0.255, it can connect 254 sets of embroidery control system maximum.

19.3 set IP of communication software

after opening the communication software, only setting the IP of control system and the IP of communication should be the same, can the machine work properly.



click IP setting button, as following figure:

1000	_	122 222		
Finne Figh DS Fy TL: EXTERNAL EXTERNAL FillEXPAR EXTERNAL	A Construction of the cons	156 - 2006 512-107 512-107 52001.07 52001.07 112.158.0.5 112.158	X/7.1) (23 20 30 30 30 30 30 30 30 30 30 3	D BR

double click or right click mouse to do IP setting, input the last parameter of IP, imputed IP should be the same with the IP of connected control system. As below:

10 10 10 10 10 I	100	Second P		and the
		87 192,168.0.5 192,168.0.100		Coppy Oline There
ADDINAS	HE - ZHS Andris Inderthe Valak Pro- cales Scoor Caldwar	· · · · · · · · · · · · · · · · · · ·	100 Trift	D ()
		-	нz	

After setting well, click enter button to storage the IP, then you can do the searching operation.

19.3 communication operations

While IP was set well, click "searching" button to search connected equipments, the

searching result will display the connected equipments and corresponding IP. Then, click the equipment you want to communicate, in the right rectangle, it will display the details of connected equipments. Then, you can do transition operations.

While transition, the system should be not working.

Attentive matters while connecting internet:

When using the PC to connect the control system directly, if the PC can not support network auto-adapt. you need to use crossover network cable, (old hardware), If supports ,you can use parallel network cable to connect. (new hardware)

When using LAN internet to connect control system, you should use parallel network cable to connect (standard network cable)

Network cable making method:

Pick the crystal head of the network cable, making the side of copper core face us, from left to right, to mark the 8 cores, No.1- No.8.

Parallel line:

One end: white orange orange, while green, blue, while blue, green, white brown, brown.

Anther end: white orange orange, while green, blue, while blue, green, white brown, brown.

Crossover line:

One end: white orange orange , while green, blue, while blue, green, white brown, brown. Another end : white green green , white orange, blue, white blue orange, white brown, brown.

Part 20 Appendixes

20. 1 Parameter Table

Parameter	Parameter Function		Range
Jump Stitch Trim Number	Starting trimming or not upon jumping	3	1-9, no trimming
Trim Top Thread Length	Length of U.T. after trimming, the larger, the longer	3	1-7
L.S Number after Trim	Whether or not to lock the needle at the stitch before the jumping, avoid thread-loose after manual trimming	No	Yes, No
Check Top.Break	Sensitivity of U.T.B. detection	5 stitches	3-9 stitches, no detection
Jump T.B Detect	Whether or not carry out T.B. detection when jumping	No	Yes, No
Far Step EMB Mode	Embroidering in that mode in large stitches	Slow	Slow, jump
Auto Jump Stitchs	When jumping in large stitches, automatically divide a stitch into more that 2 stitches for embroidery when the exceeds the specified length	6.5mm	6.5-8.5mm
Auto Speed Down ST	Slow down the embroidery when a stitch exceeds the specified length	6.0mm	4.0-9.0mm
Back Steps of L.S	How many seconds of reverse stitching before the system automatically carries out continuous reverse stitching	0	0-9
Main Axis Start Speed	Rotating speed of the main shaft when startup	100	60-200
Main Axis Max Speed	Setting max. Rotating speed of the main shaft (limited by the mechanical parameters)	750	550-1300
Move Frame Max Speed	Setting the speed of high-speed frame shifting, the larger, the faster	5	1-9
Same ST Auto Startup	Whether or not to start automatically when meeting needles with the same color changing	Yes	Yes, No
S-Down of Series Jump	The percentage of the current speed to be achieved when continuous jumping	80%	60%-90%
Stop Frame of Moving	Whether or not to stop the machine if pulling the bar when exceeding the frame	Yes	Yes, No
Machine ST Number	Number of needles used by the current embroidery machine	n*	1-15
Sequins Stitch	Whether to used left side, right side or both sides to carry out the sequin embroidery, if	Left*	Left, right, left and right

	the sequin function is disabled in mechanical parameters, this parameter will be invalid		
Sequins Max Speed	The max. Rotating speed of the main shaft during the sequin embroidery	600	300-800
Needle Of Boring	Position of the boring needle using the boring knife (no T.B. detection is carried out)	0	0-n
Needle Of Cord	The needle position when cord embroidery is carried out (auto slowdown)	0	0-n
Max Speed Of Cord	The max. Rotating speed of the main shaft when cord embroidery is carried out	300	300-600
Repeat Embroidery	Whether or not to continue with the embroidery upon completion of a pattern	No	Yes, No
Display Stitch Number	Whether or not to display the number of stitches of the pattern in the embroidery menu	Yes	Yes, No
Filter 0 Stitch Data	Whether or not to sew empty stitches	Yes	Yes, No
Color Motor Speed	The color changing speed when using stepping motor for the color changing	5	0-9
Embroidery Background	Background color of the embroidery menu	Black	Black, White
Frame Control Type	Mode of frame shifting, you can adjust it according to the actual effect	F5*	F1-F5
Frame Move Angle	Angle of the frame motor when starting the shifting of the frame, the greater load the frame bears, the smaller the angle is, you can adjust it according to the actual effect	230*	220-270°
Voltage Of Solenoid	Adjusting the voltage of the solenoid at the machine head, the larger, the higher	2	0-5
Open Trim Function	Whether to use the trimming function of the machine	Yes	Yes, No
Screen Saver Wait	If not pressing any key for a certain period of time, the screen saver will be started	Off	5, 10, 20, 30 minutes, off
Thread Break Up	Lift the undercarriage when T.B. during the sequin embroidery or not	Yes	Yes, No
Move Frame Repay Times	Positive compensation for thin materials, negative compensation for thick materials, you can adjust it according to the actual situation	0	5%, 0, -5%, -10%
repeat embroidery frame when	when connecting the power, embroidery auto find the frame origin	yes*	yes, no

connecting			
power			
Adult embroidery frame type	Choose right embroidery frame to protect the machine (Under hat frame embroidery status, the parameter is not valid)	_*	Α、Β、Ϲ、D
Hat frame X direction position	the distance between hat frame center and X direction absolute origin	_*	0-300mm
Hat frame Y direction position	the distance between hat frame center and Y direction absolute origin	_*	0-300mm
Hat frame X direction size	Max embroidery size of Hat frame X direction size (Under adult clothes embroidery status, the parameter is not valid)	_*	0-150mm
Hat frame Y direction size	Max embroidery size of Hat frame Y direction size (Under adult clothes embroidery status, the parameter is not valid)	_*	0-150mm
Lifting mode	sequin lifting mode	_*	motor, valve

n* number of needles used by the embroidery machine (no default value)

-* to be set according to the requirement (no default value)

20. 2 System Errors and Solutions

Error	Cause	Solutions		
The main shaft	The main shaft fails to stop at 100	Inch or manually rotate the main		
is not at 100°		shaft to 100°		
The main shaft	1. There's no signal or power supply	1. Check the signal cable or		
fails to rotate	of the main shaft controller	electric wire of the main shaft		
	2. There's no power input or wrong	controller		
	power input of the main shaft	2. Check the input power supply of		
	motor	the main shaft motor		
	3. The controller or the main shaft	3. Replace the controller or the		
	motor is damaged	motor		
	4. The encoder is not connected	4. Connect the encoder correctly		
The main shaft	1. The output power supply of the	1. Adjust any two phases of the		
rotates reversely	inverter is connected reversely	output end UVW of the inverter		
	2. Parameters of the servo controller	2. Reset the parameters of the		
	are wrongly set	servo controller		
	3. The A/B phases of the encoder	3. Adjust the connection of A/B		
	are reversely connected	phases of the encoder		

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No zero position	1. The zero position signal of the	1. Replace the encoder	
of the encoder	encoder is outputted	2. Check or replace the connection	
	2. There's error on the connection	cables	
	between the encoder and the		
	main board		
Color changing	1. The color changing motor fails to	1. Check the color changing motor	
time out	rotate	or the connection cables	
	2. The mechanical components for	2. Repair or replace the	
	color changing are stuck	components being stuck	
	3. There's error on the connection	3. Check or replace the connection	
	between the color changing motor	cables	
	and the power supply board		
No needle	1. The position of the in-position	1. Adjust the position of the needle	
position	detection sensor is wrong	position sensor	
	2. The needle position detection	2. Replace the detection board	
	board is damaged		
Needle position	1. The position of the in-position	1. Adjust the position of the	
not well-placed	detection sensor is wrong	in-position sensor	
	2. The needle position detection	2. Replace the detection board	
	board is damaged		
X motor driver	1. X driver over-voltage or	1. Check the input power supply of	
error	over-current protection	the driver and turn the power on	
	2. The driver is damaged	again	
		2. Replace the driver	
Y motor driver	1. Y driver over-voltage or	1. Check the input power supply of	
error	over-current protection	the driver and turn the power on	
	2. The driver is damaged	again	
		2. Replace the driver	
Thread hooking	1. Insufficient approach switch	1. Manually adjust the thread	
not in position	detection	hooking rod in position	
	2. The approach switch is damaged	2. Replace the approach switch	
Thread hooking	Thread hooking motor or connection	Check or replace the connection	
motor error	error	cables	
Trimming not in	1. Insufficient approach switch	1. Manually adjust the trimming rod	
position	detection	in position	
	2. The approach switch is damaged	2. Replace the approach switch	
Sequin needle	Sequin embroidery needle setting	Reset the sequence of color	
position error	error	changing	
+X limit error	+X limit	Manually shift the embroidery frame	
		inversely	
-X limit error	-X limit	Manually shift the embroidery frame	
		to the inverse direction	
+Y limit error	+Y limit	Manually shift the embroidery frame	
		to the inverse direction	
-Y limit error	-Y limit	Manually shift the embroidery frame	
		to the inverse direction	