

SIRUBA

電控參數說明書

ELECTRONIC CONTROL PARAMETER MANUAL

■ C/F007KP



C/F007KP 自動剪線使用說明書

User manual of C/F007KP Auto-Trimmer servo Motor

前言

Foreword

歡迎使用本公司產品，制衣行的正確投資選擇！

Welcome to use our products, it is the right investment choices in garment industry!

本說明書為本公司新研發的“C/F007KP 自動剪線”產品做對照參考手冊，請認真閱讀此手冊以便更好的運用本公司產品！

The User manual is for our newly developed “C/F007KP Auto-Trimmer servo Motor system” products Reference Manual, Please read this manual carefully, hope it can give you useful help.



閱讀本說明前以下要求說明請注意

Before reading the manual, Please note the following requirements

1、用戶使用作業前必須可靠接地，保證人身安全！

The user must be grounded before operations to ensure safety

2、非專業人士請勿拆卸控制箱

non-professionals do not disassemble the control box

3、控制箱與電機遠離強磁高輻射環境

The control box and motor away from the magnetic high radiation environment

4、不要在過熱環境中作業

Do not work in hot environments

5、不要在過於潮濕環境中作業

Do not work in humid environments too

6、使用者保證供電電壓的穩定（210V~240V）

Users to ensure stable supply voltage (210V ~ 240V)

安全叮囑：Safety requirement

1、電機接通時請不要把腳放在腳踏板上

Do not put your feet on the pedals when the motor is switched on

2、本產品請專業人士安裝調試

Let professionals to install and debug this product

3、嚴禁在通電時打開控制箱與電機端蓋

Do not open the control box and the motor cover when energized

4、換針，穿線或更換底線時請關閉電源

Please turn off the power when changing the needle, threading or replacing the bottom line

5、安裝，拆卸維修時請關閉電源

During installation and removal service, please turn off the power

6、翻抬縫紉機時請關閉電源

Please turn off the power when turn lift sewing machine

保修策略：Warranty Policy

1、本產品自購買起免費保修2年，終身維護。保修期內除人為損壞外出現任何品質問題可免費修

Since from the purchase of this product, we give 2-year warranty for free, Lifetime Maintenance. during the warranty period, Any quality problems the product will be free repaired, Except artificial damage.

2、未經本公司同意自行拆卸，改裝造成損壞將不給於保修。

without our consent disassemble or modify, the damaged will not give in warranty

3、但凡出現無法解決的問題可以聯繫本公司

Whenever find the problem can not be solved, you can contact the company

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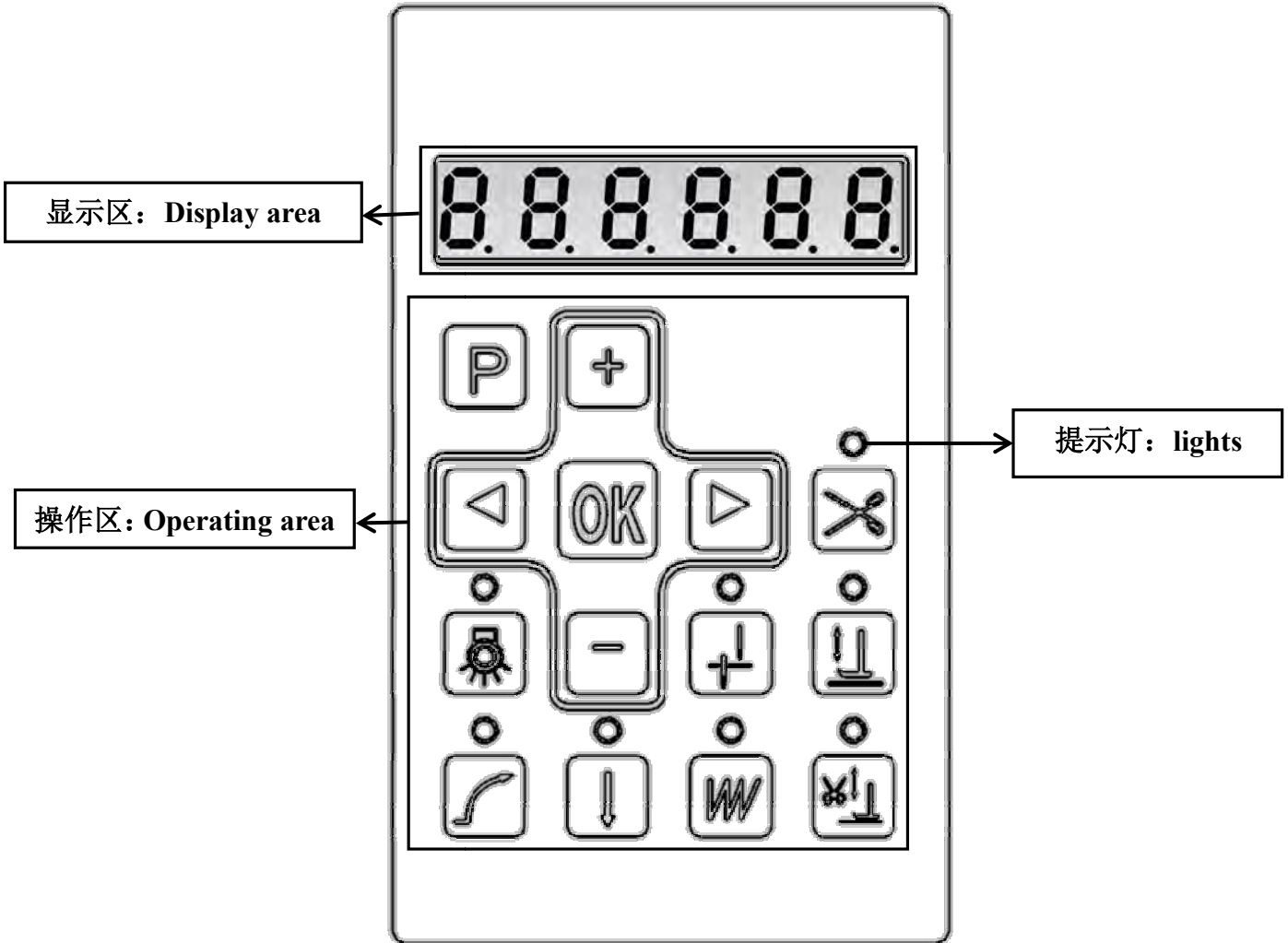
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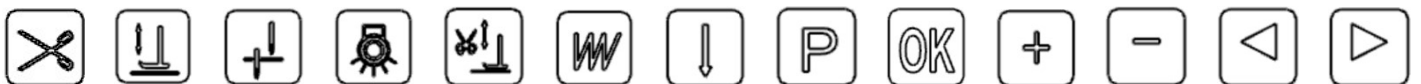
一：顯示幕常用操作介紹


Introduction of display screen common Operation





1、顯示幕介紹如下：The display screen is described as follows



2.功能介紹：Function introduction



序號 Serial No.	按鍵圖 示 Button Icons	功能說明 Function Description	快捷說明 Quick description
1		<p>剪刀功能開啟和關閉鍵</p> <p>※：功能開啟時按鍵上方的 LED 將亮起，功能關閉時按鍵上方的 LED 將熄滅。</p> <p>Auto-trimmer function On or Off key</p> <p>※：when the function is open, the upper key led light is on; when function off, the upper key led light is off.</p>	<p>長按進入剪刀功能模組</p> <p>Long press enter into Auto-trimmer Function modules</p>

2		<p>中途抬壓腳與半後踏抬壓腳功能</p> <p>鍵，相應的功能將視覺化</p> <p>※：(螢幕顯示 01：表示半後踏抬壓腳功能開啟、按鍵上方的提示燈會亮起；00 表示半後踏抬壓腳功能關閉、按鍵上方的提示燈會熄滅)</p> <p>Middle foot lifter and half-back step foot lifter function key, the related function will be Visualization</p> <p>※：(the display screen shows 01: means half-back step foot lifter function open、the upper key led light will be on; screen shows 00 means half-back step foot lifter function is off、the upper key led light will be off.)</p>	<p>長按進入壓腳功能模組</p> <p>Long press enter into Auto-foot lifter Function modules</p>
3		<p>上下停針位切換鍵，相應功能將視覺化</p> <p>※：(螢幕顯示 up：表示上停針功能開啟) (螢幕顯示 dn:表示下停針功能開啟) (螢幕顯示 no:表示停針功能關閉)螢幕顯示 up 時按鍵上方的 LED 將亮起，螢幕顯示 dn 與 no 時按鍵上方的 LED 將熄滅。</p> <p>Up or down needle position transfer key, the related function will be Visualization</p> <p>※：(the display screen show up: means the upper needle stop position is open)(the display screen show dn: means the down needle stop position is open)(the display screen shows no : means the needle stop position function is closed) the display screen shows up, the upper key led light will on; when the display screen shows dn and no, the upper key led light will off.</p>	
4		<p>機頭 LED 燈開關鍵</p> <p>※：功能開啟時按鍵上方的 LED 將亮起，功能關閉時按鍵上方的 LED 將熄滅，</p> <p>Machine head LED light On or Off key</p> <p>※：when the function is open, the upper key led light is on; when the function off, the upper key led light is off.</p>	
5		<p>點動將開啟剪線自動抬壓腳模式</p> <p>(剪線後自動抬起壓腳)</p> <p>※：功能開啟時按鍵上方的 LED 將會亮起，功能關閉時按鍵上方的 LED 將會熄滅。</p> <p>Click to open the automatic press foot mode of wire cutting (automatically lift press foot after wire cutting)</p> <p>※：The LED above the button will light up when the function is on, and the LED above the button will be off when the function is off.</p>	<p>長按進入掃線器功能模組</p> <p>Long press to enter the wire-sweeper function module.</p>
		<p>點動開啟多段縫模式</p> <p>※：開啟後按鍵上方的 LED 燈將亮起，並且螢幕會出現閃爍的數位，</p>	

6



數位大小將可以用 () () 直接調節大小，調節完畢後必須按 () 鍵進行保存，保存完畢後螢幕將不會閃爍，說明功能已經調節完畢並開啟。當需關閉此功能時按 () 鍵將退出此功能進入自由縫紉模式。

Touch this open Multi-part sewing mode

※ : When the key is turned on, the LED light above the key will light up, and a flashing number will appear on the screen. The size of the number can be adjusted directly by

. After the adjustment, the key () must be pressed to save. After saving, the screen will not flash, that means the function is already well done and open.

When you need to turn off this function, press () to exit this function into free sewing mode.

1. 多段縫進入方式 : Multi-seam entry mode

① 按 鍵進入多段縫指示燈亮(畫面顯示 n_ _ _ ④)※

① When the button enters the multi-seam indicator light is on (screen display N_ _ ④)※

② 按 鍵，畫面顯示 n_ _ _ ④ → n_ _ _ 04

② Press the button, the screen displays N_ _ _ ④ → n_ _ _ 04

③ 出廠設定為 4 段，每段為 15 針

③ The factory setting is 4 sections, each section is 15 stitches































2. 多段縫計 4 段，每段針數 15 針修改成 50 針的步驟








2. The number of stitches in each section is changed from 15 stitches to 50 stitches

① 在多段縫模式下，按 鍵，畫面顯示從 n_ _ _ 04 → n_ _ _ ④

① In multi-seam mode, press the button, the screen display from N_ _ 04 to N_ _ _

② 再按一次 鍵，畫面顯示從 n_ _ _ ④ → n ① 015

		<p>② Press the  key again, the screen displays from N_ _ _  → N015</p> <p>③按下  鍵，畫面顯示從 n015 → n010</p> <p>③ Press the  button, the screen displays from N015 to N010</p> <p>④按下  鍵，將面顯示從 n010→ n010</p> <p>④ Press the  key to display the surface from N010 to N010</p> <p>⑤按下  鍵，畫面顯示從 n010→ n050</p> <p>⑤ Press the  button, the screen displays from N010 to N050</p> <p>⑥按下  鍵，將面顯示從 n050 → n015</p> <p>⑥ Press the  key to display the face from N050 to N015</p> <p>⑦重複步驟③~⑥至畫面顯示跳回 n050</p> <p>⑦ Repeat steps ③ ~ ⑥ to jump back to N050</p> <p>⑧再按一次  鍵，畫面顯示跳回 n_ _ _04</p> <p>⑧ Press the  key again, the screen shows jump back to N_ _ _04</p> <p>※ :  表示該字幕在閃爍，xx 表示字幕沒有閃爍</p> <p>※ :  indicates that the subtitle is blinking, xx indicates that the subtitle is not blinking</p> <p>https://fanyi.so.com/javascript:;</p>
7		<p>點動一下將進入自由縫紉模式</p> <p>當開啟後按鍵上方的 LED 將亮起，此鍵配合多段縫功能鍵使用，自由縫與多段縫只能其中一個起作用（可以看做多段縫關閉鍵）</p> <p>Touch it into free sewing mode</p> <p>When open, the upper key led light will be on, This key is used in conjunction with the multi-sewing function key, and only one of the free and multi-sewing keys will work (can be regarded as the multi-sewing close key)</p>
8		<p>慢啟動功能鍵</p> <p>※：功能開啟時按鍵上方的 LED 將亮起，功能關閉時按鍵上方的 LED 將熄滅。</p> <p>Slow start function keys</p> <p>※：when the function is open, the upper key led light is on; when the function off, the upper key led light is off.</p>
9		<p>進入參數調整輔助鍵，可與 () () 鍵配合使用，不同配合將進入不同參數列表</p>

		Enter parameter adjustmentSecondary key, together with () or () using, different Combination into different Parameter List
10		參數確定保存鍵 Parameter determines the Save button
11		“+” 鍵（修改參數時加） “+” button (modify the parameters plus)
12		“-” 鍵（修改參數時減） “-” button (modify the parameters minus)
13		向左鍵（在參數列表中用來返回上一頁面用） Left key (In the parameter list to return to the previous page)
14		向右鍵（在參數列表中進入參數調整用） Tight key (In the parameter list to enter the parameter for adjustment)

3.恢復出廠設置:Restorefactorysettings:









恢復出廠設置方法:先按“P”鍵不放,再用另一隻手按“+”號鍵、此時畫面會顯示 P-000,再長按“OK”鍵約 3 秒即可,(恢復出廠設置值在常用參數表裡)。

Restorefactorysettings:PressthePkey,noleave,andusetheotherhand press the"+"key,thescreenwill displaythep-000,then press"OK" keyseconds,itwillRestorefactorysettings.




二、如何進入參數與如何修改參數

How to enter parameters and how to modify the parameters

系統參數進入解析：




- 1.按住 () 鍵加上 () 鍵將進入“系統參數”清單（需要密碼.2014 進入調整，按  進入）。
- 2.按住 () 鍵加上 () 鍵將進入“用戶參數”清單（無須密碼）進入後可看見系統參數編號，此時可以用 () () 鍵，切換參數編號，在需要修改的編號前按 () 鍵，將進入當前參數進行調整，

可按 () () 鍵對當前參數進行加減操作。






3.修改完畢參數後需要按 () 鍵保存參數並退出系統參數調節。或按 () 鍵退回上一個頁面進行其他參數修改。操作方法和上面一樣。操作完畢後必須按 () 鍵進行保存，否則修改的參數將會是無效。




注： 以上是進入方法，具體參數號代表的參數意思詳情如下 “3.指令引數說明表”

System parameters entering analysis:

1.Together touch  and  enter into “System parameters” list (need code: type 2014 enter into adjustment, press )

2.Together touch  and  enter into “User parameters” list (No need password).

After entering the system parameters number can be seen, then you can use () () key to transfer the parameter number, when you find the needed modify number, then touch () key to enter into the current parameters, touch () () to adjust it.

3. After finish modification then touch () to save the modification and exit. Or you can touch () to return back page system parameters number to modify. Method of operation is the same of above. After change finish, should be touch () to save the modification, otherwise modify the parameters will be invalid.

Note: the upper is entry method, specific parameters No. on behalf of the parameters meaning as follows:

“三：Operating Parameter Description Table”

”

三：指令引數說明表： Operating Parameter Description Table

W1500 系統參數清單：W1500 System parameter list

菜單號	功能說明	功能參數預設值	功能參數範圍	參數說明
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System parameter list	Function Description	Function parameter default values	Function parameter ranges	Parameter Description
P1	最大縫紉速度 MAX Sewing speed	4500	200 ~ 5000	轉 / 分鐘 Round / Minute
P2	起縫速度 Start sewing speed	200	150 ~ 800	轉 / 分鐘 Round / Minute
P3	踏板加速曲線 Pedal acceleration curve	85	10 — 100 %	
P11	慢啟動選擇 Slow Start Selection	0	0 — 1	0 : 禁用 1 : 啟用 0: Disable 1: Enabled
P12	慢啟動針數 Slow start Stitches number	2	1 — 30	針數 Stitch number
P13	慢啟動速度 Slow start speed	350	200 — 800	轉 / 分鐘 Round / Minute
P22	電機驅動方向 Motor drive orientation	1	0 — 1	0 : 逆時針 1 : 順時針 0: Counterclockwise 1: Clockwise
P23	顯示當前速度 Displays the current speed	0		顯示當前的電機轉速 Displays the current motor speed
P24	顯示調速器電壓 Display foot controller voltage	0		顯示調速器輸出電壓 Display foot controller output voltage
P25	自動磨合運行 Automatic running-in operation	0	0 — 1	0 : 關閉 1 : 啟動 0 : OFF 1: ON
P34	上停針角度 The angle of upper needle stop position	0		
P35	下停針角度 The angle of down needle stop position	180		
P36	剪刀動作延時啟動時間 Delayed start time for knife action	005	0 — 2000	毫秒 Millisecond
P37	剪刀動作時間(全功率+維持功率) Knife action time (full power + maintain power)	180	10 — 2000	毫秒 Millisecond
P38	剪刀動作全功率時間 Full power scissors action time	260	10 — 990	毫秒 Millisecond
P40	剪刀動作維持功率調整 maintain power adjustment for knife action	50	1 — 100	百分比 Percentage
P41	剪刀動作釋放保護時間 Knife action releasetheprotection time	35	20 — 800	毫秒 Millisecond
P43	剪刀動作重定開關使能 Scissors action reset switch	1	0 — 1	0 : 禁用 1 : 啟用 0: Disable 1: Enabled

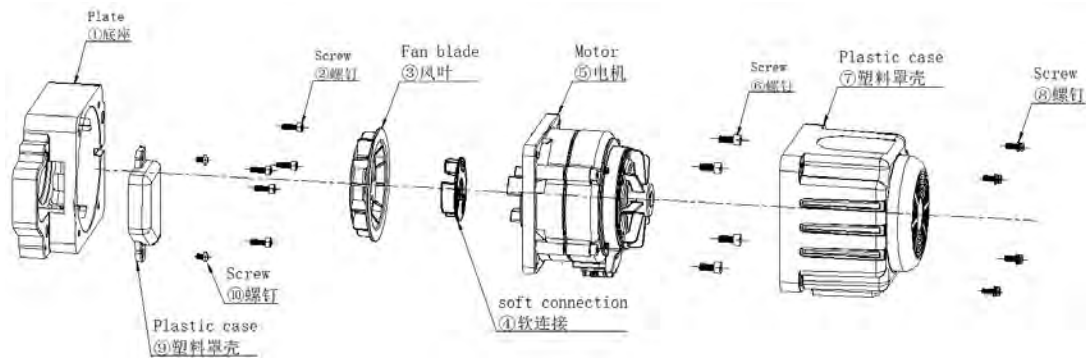
	enable			
p44	下剪刀手動動作模式	0	0-1	0：禁用（縫製過程中結束或者用手轉動機器後，後踏不剪線）1：啟用（縫製過程中結束或者用手轉動機器後，後踏可以剪線） 0: Disable 1: Enabled
P46	撥線動作延時啟動時間 Wiper action delayed start time	40	0 — 2000	毫秒 Millisecond
P47	撥線動作時間(全功率+維持功率) Wiper action time (full power + maintain power)	70	10 — 2000	毫秒 Millisecond
P48	撥線動作全功率時間 Wiper action time at full power time	35	10 — 990	毫秒 Millisecond
P49	拔線全功率時功率	100		
P50	撥線動作維持功率調整 Wiper action time at maintain power adjustment	50	1 — 100	百分比 Percentage
P51	撥線動作釋放保護時間 Wiper action release the protection time	50	20 — 800	毫秒 Millisecond
P55	吹氣模式 Blow mode	000	0-4	0：普通掃線 normal Sweep thread 1:剪一次吹一次 cut one time blow one time 2：每次抬壓腳都吹 Blow for each foot lifter 3：長吹 Long blowing 4：斷吹 break blow
P56	壓腳動作延時啟動時間 Foot-lifter action delayed start time	110	0 — 2000	毫秒 Millisecond
P57	壓腳動作時間(全功率+維持功率) Foot-lifter action time (full power + maintain power)	260	100 — 2000	毫秒 Millisecond
P58	壓腳動作全功率時間 Foot-lifter action time at full power time	160	10 — 990	毫秒 Millisecond
P60	壓腳動作維持功率調整 Foot-lifter action time at maintain power adjustment	20	1 — 90	百分比 Percentage
P61	壓腳動作釋放保護時間 Foot-lifter action release the protection time	80	20 — 800	毫秒 Millisecond

P62	壓腳抬起後自動放下時間 Automatic presser foot lifter down time	10	1 — 120	秒 Second
P65	半後踏抬壓腳延時啟動時間 Half-back step pedal foot lifter delay start time	120	0 — 2000	毫秒 Millisecond
P70	電機最大電流限制 Motor max electric current	350	50 — 600	
P71	最高速度鎖定 Maximum speed lock	4500	200 — 5000	轉 / 分鐘 Round / Minute
P72	系統密碼 System Password	2014		

四：安裝調試：INSTALLATION AND TRIAL-RUN (DIRECT DRIVE TYPE)

4.1 電機電控箱安裝：

Installation of motor and controller box:



a. 將①底座放入機頭尾部，用②螺釘固定。

a.install the base(pic ①) onto the end of the machine, fix it with the screws(pic ②).

b. 將④軟連接提前安裝至③風葉內並放入機器主軸用鎖緊固定螺絲。

b. install the ④ soft connection into the ③ fan first and then put them into the main shaft of the machine and locking the screw.

c.將④電機套入③風葉上，用⑤螺釘鎖緊（注：電機線方向朝下，安裝完成後轉動機頭上的手輪檢查是否有卡重現象）。

c.Install the motor(pic ④) onto the fan blade(③), fix it with the screws(pic ⑤)(note: the direction of the motor wire should be down, turn around the hand wheel to check if the motor is overweight or stuck).

d.將⑥塑膠罩殼放入④電機上，用⑦螺釘鎖緊。

d.Install the plastic cover(pic ⑥) onto the motor(pic④), fix it with the screws.

e.將⑧塑膠罩殼放入①底座上，用⑨螺釘鎖緊。

e.Install the plastic cover(pic ⑧) onto the base, fix it with the screws.

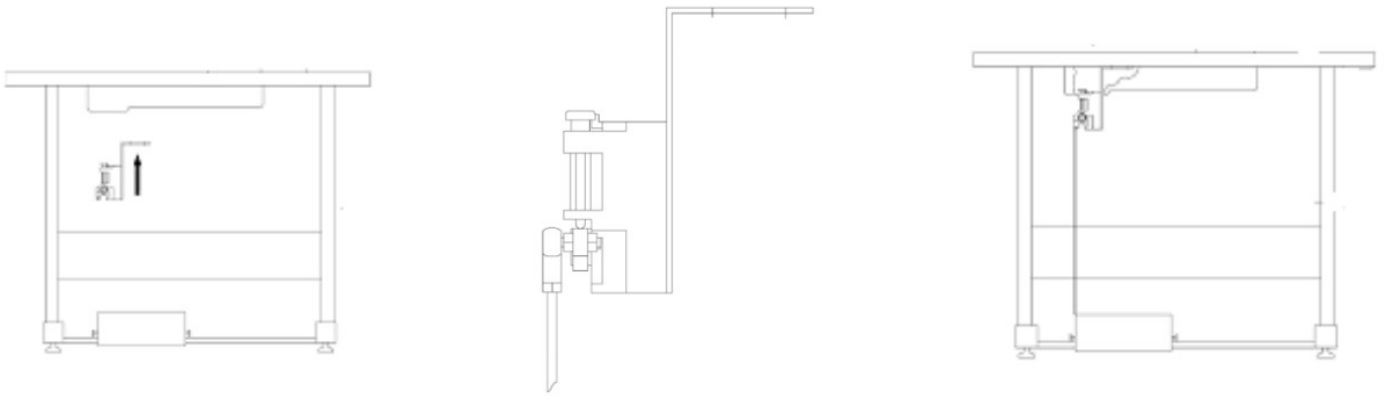
4.2. 調速器安裝與調整：

Installing and adjusting of speed controller:

A. 控速器的安裝 :1).將腳踏控速器安裝于台板下方 2). 將踏板與控速器安裝連結 3).安裝後示意圖

A. Installing of the speed controller:

- 1) Install the speed controller under the table
- 2) Fix the pedal and the speed controller
- 3) The installation diagram



B. 腳踏板後踏力量的調整:

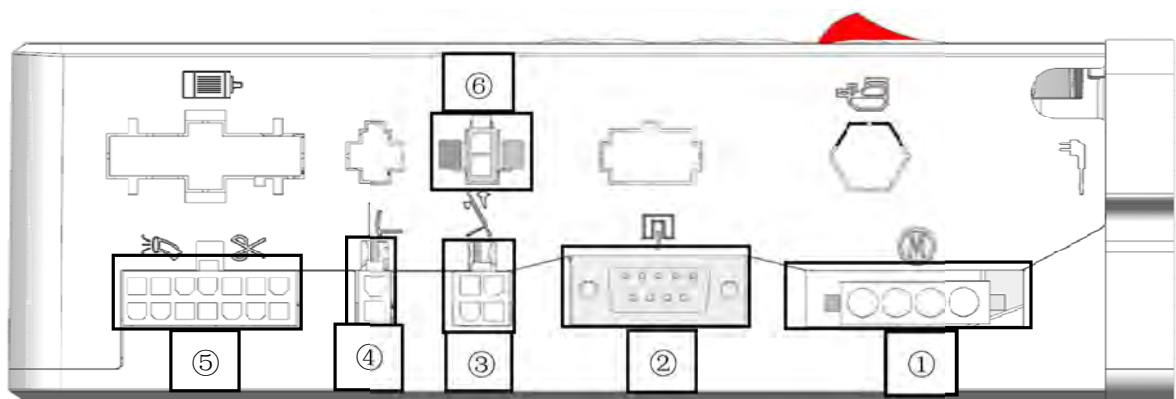
power adjusting of the backward pushing

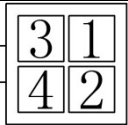
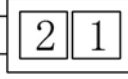
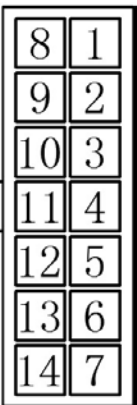
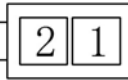


調整需求 Adjustment require	調整結果 Adjustment result
踏板後踏力量的調整 Adjustment of the pedal backward pushing power	當螺栓愈向下時，則後踏力量愈重。當螺栓愈向上時，則後踏力量愈輕。 The power will be stronger when fix the screw downward. The power will be weak stronger when fix the screw upward.

四：控制箱埠說明

The control box Port Description



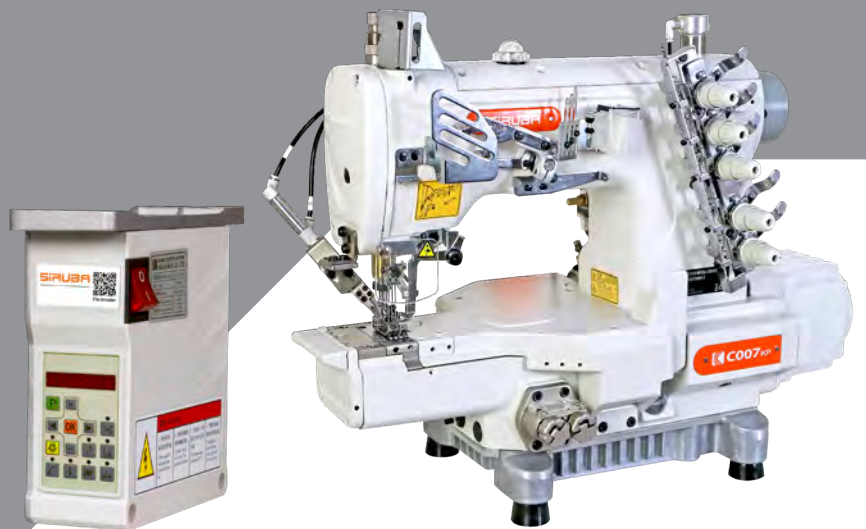
埠序號 The port number	埠連接的器件名稱 Port device name for the connection	埠說明 Port instruction													
①	連接電機 4 線驅動線 connect motor 4P drive line														
②	連接電機相位信號線 Connect the motor phase signal line														
③	腳踏板埠，連接調速器 Foot pedals port , connect foot controller		1:2:3:4 1:GND 2:GND 3:信號 Signal 4:5V												
④	抬壓腳控制埠，連接壓腳電磁鐵或電磁閥 Presser foot control port, connect the presser foot solenoid or solenoid valve		2:1 2:GND 1:34V												
⑤	14P 多功能埠 14p multifunction port		<table border="1"> <tr> <td>1:8</td> <td>1:34V 8:剪刀輸出:Scissors output</td> </tr> <tr> <td>2:9</td> <td>2:34V 9:撥線輸出:Suction output</td> </tr> <tr> <td>3:6:13</td> <td>3:5V 6:信號 Signal 13:GND</td> </tr> <tr> <td>4:7:14</td> <td>4:5V 7:信號 Signal 14:GND</td> </tr> <tr> <td>5:12</td> <td>5:34V 12:壓腳輸出 : Presser foot output</td> </tr> <tr> <td>10</td> <td>大地 Ground</td> </tr> </table>	1:8	1:34V 8:剪刀輸出:Scissors output	2:9	2:34V 9:撥線輸出:Suction output	3:6:13	3:5V 6:信號 Signal 13:GND	4:7:14	4:5V 7:信號 Signal 14:GND	5:12	5:34V 12:壓腳輸出 : Presser foot output	10	大地 Ground
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10	大地 Ground														
⑥	LED 機頭燈插孔 head LED socket		2:1 2:5V 1:GND												

五：錯誤代碼解析： Error code analysis

顯示的錯誤碼 Display error code	錯誤碼意思 Error code meaning	錯誤的產生 Various possible for the erro	解決錯誤 Solution
ER-01	找不到停針位 Not find needle position	1:手輪和電機靠的不夠近 2：手輪上磁鋼脫落 3：手輪磁鐵極性裝反 4：九針端子頭接觸不良 5：電機霍爾損壞，跟換電機 1：Hand wheel and motor 2：Hand wheel magnet off 3：Hand wheel magnet polarity reversal 4：Nine-pin terminal headPoor contact 5：Motor hall damaged, with the change motor	1：檢查電機信號線有無鬆動 2：更換手輪 3：更換電機 1: check whether the motor signal line is loose 2:replace the wheel 3: replace the motor
ER-02	腳踏板信號錯誤 Foot controller signal error	1：開機時沒插調速器 2：調速器插反 3：調速器線斷開 4：調速器損壞 1：Not plugged foot controller into control box 2: foot controller inserted upside 3: foot control box line broken 4: foot controller damage	1：檢查調速器信號線 2：更換調速器 3：更換控制器 1: check the foot controller signal line 2: change the foot controller 3: replace the foot controller

ER-03	<p>電機相位信號錯誤</p> <p>Motor phase signal error</p>	<p>1 : 九針插頭接觸不良</p> <p>2 : 電機安裝時霍爾和轉子存在大偏差</p> <p>3 : 電機霍爾壞</p> <p>1: Nine-pin terminal plug Poor connect</p> <p>2: Hall and rotor has large deviations when the motor is mounted</p> <p>3: Motor hall damage</p>	<p>1 : 打開電機上的橡皮蓋通過孔看電機轉子與定子是否在同一平面保障誤差不超過 1MM</p> <p>2 : 更換電機</p> <p>3 : 更換控制器</p> <p>1: open the rubber cover on the motor through the hole to see whether the motor rotor and stator in the same surface to ensure the error is not more than 1MM</p> <p>2: replace the motor</p> <p>3: replace the control box</p>
ER-04	<p>電機堵轉保護</p> <p>Motor stall protection</p>	<p>1 : 縫紉機過重或堵死</p> <p>2 : 電機超載</p> <p>3 : 電機 4 線驅動線沒連接好或插反</p> <p>1: Sewing machine overweight or blocked</p> <p>2: Motor overload</p> <p>3: 4-wire motor drive cable is not connected or inserted upside</p>	<p>1 : 檢查電機 4P 線</p> <p>2 : 檢查縫紉機是否過重</p> <p>3 : 更換控制器</p> <p>1: check motor 4P line</p> <p>2: check whether the sewing machine is too heavy</p> <p>3: replace the controller</p>
ER-05	<p>硬體過流保護</p> <p>Hardware over current</p>	<p>1 : 縫紉機過重或堵死</p> <p>2 : 電機超載</p> <p>3 : 電機相位信號線沒連接好</p> <p>4.功率管損壞</p> <p>1: Sewing machine overweight or blocked</p> <p>2: Motor overload</p> <p>3: Motor phase signal line is not connected</p> <p>4: Power tube damage</p>	
ER-07	<p>串口通訊超時</p> <p>Serial communication timeout</p>	<p>1 : 顯示幕連接主機板線連接不良</p> <p>2 : 主機板晶片損壞</p> <p>1: Display bad cable connection Motherboard</p> <p>2: Motherboard chip damage</p>	<p>1 : 檢查顯示幕與控制器連接線</p> <p>2 : 檢查控制器是否還可運行，如不能運行就是控制器損壞</p> <p>3 : 檢查機器旁是否有高頻機器干擾</p> <p>4 : 更換顯示幕</p> <p>1: Check the connection line between the display screen and the control box.</p> <p>2: check whether the controller run well, if not, controller damage</p> <p>3: check whether there is a high frequency machine near the machine interference</p> <p>4: change the display panel</p>
ER-09	<p>記憶體不良</p> <p>Poor memory</p>	<p>1: 主機板記憶體損壞或不良</p> <p>1: Motherboard memory corruption or bad</p>	<p>1 : 控制器損壞</p> <p>1: control box damage</p>
ER-12	<p>剪刀沒有復位報警</p> <p>Knife is not reset the alarm</p>	<p>1 : 復位檢測器壞了</p> <p>2 : 剪刀卡住沒復位</p> <p>1: Reset the detector is broken</p> <p>2: knife stuck not reset</p>	<p>1 : 檢查霍爾是否損壞</p> <p>2 : 檢查感應磁鐵是否沒有感應到</p> <p>3 : 檢查感應磁鐵磁極是否裝反</p> <p>4. 更換電控</p> <p>1 : check the hall is damage or not</p> <p>2: check whether the induction magnet is detected or not</p>

			<p>3: check induction magnet pole is installed in reverse or not</p> <p>4. change the control box</p>
ER-16	<p>過壓</p> <p>Over load</p>	<p>1.電機驅動電源電壓過高，220V 電源電壓超過限定值（ AC310V ），或負載慣性過大導至再生電壓超過限定值(DC440V),或電壓檢測回路故障。（ 110V 控制系統電源電壓超過限定值（ AC155V ），或負載慣性過大導至再生電壓超過限定值(DC220V)。</p> <p>1. The motor drive power supply voltage is too high, the 220V power supply voltage exceeds the limit value(AC310V), or the load inertia is too large to the regenerative voltage exceeds the limit value(DC440V), or the voltage detection circuit fails.Note:(110V control system power supply voltage exceeds limit value(AC155V), or load inertia is too large to regeneration voltage exceeds limit value(DC220V).</p>	
ER-20	<p>欠壓故障</p> <p>Under voltage error</p>	<p>1.電機驅動電源電壓過低，220V 電源電壓低於限定值（ AC91V ），或電機驅動電源電壓低於限定值（ DC130V ）,或電壓檢測回路故障。</p> <p>注：（ 110V 電源電壓低於限定值（ AC45.5V ），或電機驅動電源電壓低於限定值（ DC65V ））</p> <p>1. The motor drive power supply voltage is too low, the 220V power supply voltage is lower than the limit value(AC91V), or the motor drive power supply voltage is lower than the limit value(DC130V), or the voltage detection circuit fails.</p> <p>Note:(110 V power supply voltage is below the limit(AC45.5 V), or motor drive power supply voltage is below the limit(DC 65V))</p>	



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