

OWNER'S MANUAL

41X Pattern Sewing Machine



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Forewords

Thank you for using our Computerized Control System for Special Sewing Machine.

It is appreciated that you do read this manual carefully in order to operate the machine correctly and effectively. If the user operates the machine contrary to regulations herein, we will not take responsibility for any loss caused thereby to the user or any third party. Besides, you should keep this manual safely for future use. For any fault or problem of machine, please ask the professionals or the technicians authorized by our company for repair service

Safety Matters for Attention

1 Signs & Definitions of Safety Marks

This User's Manual and the Safety Marks printed on the products are for you to use this product correctly so as to be away from personal injury. The signs and definitions of Marks are as follows:

Danger	The incorrect operation due to negligence of this Mark will cause the serious personal injury or even death.
Caution	The incorrect operation due to negligence of this Mark will cause the personal injury and the damage to mechanism.
	This symbol means "things to be noted". The pattern in the triangle indicates what must be paid attention to. (for example, the pattern on the left says, "beware of injuries")
\bigcirc	This kind of marks means "Forbidden".
	This kind of marks means "Must". The figure in the circle refers to the thing that has to be done. (E.g. The left figure is "Grounding!")

2 · Safety Matters for Attention

Danger		
Â	For opening the control box, please turn off the power and pull out the plug from the socket first, and then wait for at least 5 minutes before opening the control box. Touching the part with high voltage will cause personal injury.	
	Caution	
	Using Environment	
0	Try not to use this sewing machine near the sources of strong electric disturbance likehigh- frequency welding machine. The source of strong electric disturbance may affect the normal operation of the sewing machine.	
0	The voltage fluctuation shall be within $\pm 10\%$ of the rated voltage. Large-scaled voltage fluctuation will affect the normal operation of the sewing machine, where a voltage regulator is necessary.	
0	Working temperature: $0^{\circ}C \sim 45^{\circ}C$. The operation of the sewing machine will be affacted in environment with temperature beyond the above range.	
0	Relative Humidity: 35%~85% (No dew inside the machine). Otherwise, the operation of the sewing machine will be affected.	
Ô	The supply of compressed gas shall be over the consumption required by the sewing machine. The insufficient supply of compressed gas will lead to the abnormal action of the sewing machine.	
Õ	In case of thunder, lightning or storm, please turn off the power and pull out the plug from the socket, for the operation of sewing machine may be affected.	
	Installation	
\bigcirc	Please ask the trained technicians to install the sewing machine.	
\oslash	Don't connect the machine to power supply until the installation is finished. Otherwise the action of the sewing machine may cause personal injury once the start switch is pressed by mistake.	
	When you tilt or erect the head of sewing machine, please use both of your hands in that operation. And never press the sewing machine with strength. If the sewing machine loses its balance, it will fall into floor thus causes the personal injury or	

	mechanical damage.
•	Grounding is a must. If the grounding cable is not fixed, it may cause the electric-shock and mis-operation of the machine.
0	All the cables shall be fixed at least 25mm away from the moving components. By the way, don't excessively bend or over-tightly fix the cable with nails or clamps, or it may cause the fire or electric shock.
0	Please add security cover on the machine head.

Sewing		
\oslash	This sewing machine can only be used by the trained staff.	
\Diamond	This sewing machine has no other usages but the sewing.	
0	When operating the sewing machine, do put on the protection glasses. Otherwise, the broken needle will cause personal injury if it hurts the eyes.	
A	Under following circumstances, please cut off the power at once so as to avoid the personal injury caused by the mis-operation of start switch: 1.Threading on needles; 2. Replacement of needles; 3. The sewing machine is not at work or beyond supervision.	
A	During working, don't touch or lean anything on the moving components, which will cause personal injury or damage the sewing machine.	
0	During working, in case of mis-operation, or abnormal noise or smell, user shall cut off the power at once, and then contact the trained technicians or the supplier of that machine for solution.	
0	For any trouble, please contact the trained technicians or the supplier of that machine.	
Maintenance & Inspection		
\Diamond	Only the trained technicians can perform the repair, maintenance and inspection of this sewing machine.	
0	For the repair, maintenance and inspection of electrical components, please contact the professionals at the manufacturer of control system in time.	
	 Under following circumstances, please cut off the power and pull out the plug at once so as to avoid personal injury caused by the mis-operation of start switch:. 1.Repair, adjustment and inspection ; 2. Replacement of components like curve needle, cutter and so on. 	
	Before the inspection, adjustment or repair of any gas-driven devices, user shall cut off the gas supply till the pressure indicator falls to 0.	
	When adjusting the devices with the power supply and gas supply on, users can't be too careful at following the entire Safety Matters for Attention.	
\Diamond	In case of damages of the sewing machine caused due to unauthorized modifications, our company will not be responsible for the repair.	

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1 General Information

1.1 General Introduction

Mitsubishi series computerized control system for industrial sewing machine: 1) Adoption of the world leading AC servo control technology on main shaft motor provides large torque, high efficiency, stable speed and low noise; 2) Diversified design of control panel can meet the special requirements of users on attachment; 3) System adopts German style structure, which greatly facilitates the installation and maintenance.

1.2 Functions and Parameters

NO.	Type of Controller	Computerized Control System for Pattern-sewing Machine
1	Sewing Area	X(Lateral) Direction Y(Longitudinal) Direction 600(mm) x 400(mm)
2	Max. Sewing Speed	3000rpm (with stitch interval below 3mm)
3	Stitch Length	0.1~12.7mm (Min Resolution: 0.10mm)
4	Feed Motion of Frame	Intermittent feeding (2-shaft driven by pulse motor)
5	Needle Bar Stroke	41.2mm
6	Needles	DP×5、DP×17
7	Lift of Frame	Standard 18mm to Max. 22mm (Pneumatic type: Max. 25mm)
8	Intermediate Presser	Stepping Driving (Range: $0 \sim 8$ mm)
9	Lift of Intermediate Presser	20mm
10	Memory of Pattern Data	Memory/U Disk
11	Pause function	Stop the machine during the sewing
12	Scaling Up/Down Function	Allows a pattern to be scaled up/down on the X axis and Y axis independently when user sews a pattern. Ratio: 1% to 400% (0.1% per step)
13	Scaling Up/Down Method	Increasing / decreasing stitch length & Increasing / decreasing stitch number
14	Sewing Speed Limitation	200~3000rpm (100rpm per step)
15	Pattern Selection Function	Pattern No. selection method
16	Up counter	No Count/Count of Pattern /Count of Cycle ($0 \sim 99999$)
17	Down Counter	No Count/Count of Pattern /Count of Cycle ($0 \sim 99999$)
18	Sewing Machine Motor	Servo Motor
19	Stop Needle at Highest Position Function	After the completion of sewing, the needle can return to its highest position.
20	Rated Power	600W
21	Operation Temperature Range	0°C∼45°C
22	Operation Humidity Range	35%~85% (No Dew Condensation)
23	Line Voltage	AC 220V \pm 10%; 50/60Hz

X Effective standard for product: QCYXDK0004—2020 Computerized Control System for Industrial Sewing Machine.

1.3 Matters for Safe Using

• Installation

- Control Box
 - Please install the control box according to the instructions
- Attachments
 - If other attachments are needed, please turn off the power and pull out the power plu g.
- Power Cable
 - Do not press power cables forcefully or twist power cable excessively.
 - The power cables shall be fixed at least 25mm away from the rotating component.
 - Before powering the control box, user shall carefully check the voltage of power supply and the position of power input on the control box. If the power transformer is used, user should also check it before powering the machine. The power switch of the sewing machine must be set as "Off".
- Grounding
 - In order to avoid the noise disturbance and electric shock caused by electric leakage, user should ground the grounding cable.
- Attachments
 - If any electric attachments are needed, please connect them to proper positions.
- Disassemble
 - When removing the control box, user must turn off the power and pull out the power plug.
 - When pulling out the power plug, user should hold the plug and remove it, instead of pulling the power cable only.
 - The control box contains the dangerous high voltage power. For opening the control box, please turn off the power and pull out the plug from socket first, and then wait for at least 5 minutes before opening the control box.

• Maintenance, Inspection and Repair

- Only trained technicians can perform the repair and maintenance of this machine.
- When replacing the needles and shuttles, user should turn off the power.
- Please use the spare parts from the authorized manufacturers.

• Others

- Do not touch the rotating or moving parts of the machine, especially the needle and belt, when the machine is working. User should also keep his/her hair away from those moving parts, so as to avoid the danger.
- Do not drop the control device on the floor, nor insert any stuff into the slots on the con trol box.
- Do not run the machine without the cover shells.
- If this control device is damaged or unable to work normally, please ask the technicians to adjust or repair it. Do not run the machine when the problem is not solved.
- Please do not change or modify this control device without authorization.

• Abandonment

- Dispose it as common industrial trash.
- Warning and Danger
 - The mistake operation may cause danger. For the serious level, please refer to the figure below:





■ The meanings of the marks are shown below:

\triangle	Please operate machine according to ins truction	\land	Caution:High Voltage
	Caution:High Temperature	9	Grounding is a must
\oslash	Never do this		

1.4 The Preventive Measures in Use



1.5 Standardization

The function keys use figures commonly recognized within the industry. Figures, as international language, are recognizable to users in every country.



1.6 Operation Method

The Mitsubishi type touching panel adopts the advanced touching operation technology, whose user-friendly interface and easy control bring the revolutionary changes to the daily usage of the users. For performing relevant operations, user can use his fingers or other objects to touch the screen.



Don't use sharp objects to touch the screen so as to avoid causing permanent damage to the touch panel.

2 Operation Instructions

2.1 Basic Operation

1 Turn on Power Switch

After user turns on the power, the main interface P1 will be displayed.

📮 MainWindow P1		2022/	03/04(Fr	i) 10:47
123 00000/99999	0	JH PR	OGRAM	
DATA	T FEED	00)1	
	9 00000	SF	PEED	
	() 00046	<u>c</u>)	
	₩¥ +0.0	THREAD	CLAMP	A
	39.90 ■ 39.80	TEST	F	P2
	© 2020-05-18 14:09:09	XY SCALE	<mark>∢</mark> R/W	
○ ○ ○ ○ ○ ○ ○ ○ ○ ○	006	F	STEP	STEP

2 Pattern for Sewing

Display the selected pattern in the current interface. If user wants to change the pattern, he should refer to section [2.5 Load Pattern].

3、Start Sewing

(1) Before the actual sewing, user need confirm the settings of the sewing conditions again, especiall y the setting of the speed (Range: $0 \sim 9$).

⁽²⁾ The speed of sewing machine is determined by the speed value and stitch interval. The speed value will determine the max speed of sewing machine, while the stitch interval will limit the speed of sewing machine.

[Note]: Do not change the speed value during the sewing, except the condition of pause, otherwise it may cause influence on the thread-withdrawing condition.

③ Put the sewing material to the appointed position, step the frame switch (black one) to lower the frame and step the running switch (grey one) to start the actual sewing. Once the sewing starts, user will not need to continue stepping on the running switch. When the sewing machine finishes the work, the frame will go up automatically.



4. Pause

If user wants to stop the machine during the sewing, please press the emergency stop button on the head (Please refer to the following figure for details). After user presses that key, the sewing machine will stop at the

upper position (default setting) and enter the pause status. For releasing the pause status, please press that emergency stop button again. Then user can continue to perform the following operation:

- ① Step on the running switch to continue the sewing;
- 2 Press Forward Moving/ Backward Moving to change the sewing start position;
- ③ Step on the frame switch to lift frame;
- ④ Change the speed value of sewing machine; and/or
- ⑤ Move the intermediate presser.



5. Method for Mending the Sewing

User can use the pause function to perform the mending sewing. If user presses emergency stop key in case of thread-breakage, the needle will stop at the upper position. Press backward moving key to move the frame to the position that is two or three stitches before the thread-breakage point, finish threading and step the running switch to continue the sewing.

Note: never use your foot to step on the running switch when threading. It is very dangerous to run the sewing machine when threading, so be sure to remove your foot from the running switch when threading.

2.2 Instructions on Interface Display Status

2.2.1 Interface 1 (Main Interface P1: Standard Display Status)



2.2.2 Interface 2 (Display Status after Users Press NEXT in Main Interface P1)

📮 MainWindow	P2		2	2022/03/04(Fri) 13:45
Motor 0 0	Release	Output IO	X Distance: 0.00	Y Distance: 0.00
Wipe	Reverse Pf	Input Signal	X Origin: OFF	Y Origin: OFF
Trimming	Valve1	Expansion foot	4	
Presser	Valve2		•	
M-Presser	Valve3			
RESET				

2.2.3 Interface 3 (Catalogue Mode in Main Interface P1)



No.	Function	Content	
		The displayed content is the interface title of the MENU.	
А	MENU Function Interface Title	When user press the button, the displayed content in the title bar	
		will become the functional description of the corresponding key.	
	Pattern management (adding,	After entering the interface, execute the corresponding functions to	
В	deleting, checking and saving	search, sort, delete, save, read and other related operations for	
	graphic data)	patterns.	
С	Save Pattern (Save Pattern Data)	Save the pattern to memory or U disk	
D	Edit Pattern (Pattern Design Mode)	Edit the pattern	
Е	Modify Pattern (Modification Mode)	Modify the pattern	
Б	Data Transformation (File	Transform the data	
Г	Transformation Mode)	I ransform the data	
G	Operation Setting	Set the operation parameters	
Н	Test Mode	Test the external devices, LCD screen and so on.	
Ι	Function Setting	Perform the function operations	
		Perform letter sewing edition.	
J	Latter Serving Edition	[Note]: User can close letter sewing edition function via	
	Letter Sewing Edition	Parameter "Special" -> "Enable Letter Sewing". The figure will	
		disappear when it is deactivated.	
K	Quit	Quit the current interface, and return to the upper interface.	

2.3 Instructions on Main Interface P1



No.	Functions	Content
Α	Up-counter	Display the current value/set value of the Up-counter.
В	Down- counter	Display the current value/set value of the Down- counter.
С	The robbin counter's alarms number of stitches	Perform data setup operations
D	Date/Clock	Show time
Е	Pattern Name	Display the name of current pattern
F	Pattern Shape	Display the shape of the current pattern [Note]: D is the position of origin.
G	Pattern Number Hot Key	Display the recently used pattern numbers, at most 40 numbers can be saved. Pressing the pattern number will activate that pattern for sewing. [Note]: In combined pattern sewing mode, the displayed content is the sub-pattern numbers and their number.
Н	Pattern Selection Function	Pattern No. selection method
Ι	Speed Adjustment Area	Adjust and display the sewing speed of the current pattern
J	MENU	Display the catalogue (refer to [2.2.3 Interface 2])
Κ	Enter Main Interface P2	Press it to enter Main Interface P2.
L	Herringbone sewing template pattern setting key	Press this button to enter, parameters of herringbone seam can be set
М	Forward key	Press this key,X-Y (frame) will move forward on the pattern
Ν	Display the data	Displays the current pattern data
0	Copy pattern key	Press this button to enter, you can choose the pattern you need
Р	Threading key	Press this key to thread
Q	Intermittent presser foot setting	Adjust the intermittent presser foot height
R	Trial sewing key	Trial sewing operation
S	Template lock key	Lock the pattern template used

No.	Functions	Content
Т	The winding key	You can set whether to winding
U	Forward key	Move forward moves the sewing needle forward
V	Convert / zoom key	Press this key to enter and select the pattern you need

2.3.1 Pattern Stitch Number Display



No.	Descriptions
	Display the current frame position and sewing data type.
	(Sewing "SEW", Feed "FEED", Sub-origin "2HP", Upper Stop "USTP", Down Stop "DSTP", Thread-
А	trimming "TRIM", Feed Speed "FEDS", Restart "ASRT", Board Heavy "HEVI", Fabric Thick "ATUM",
	Jump Sewing "BAT", Function 1 "FUN1"~Function 7 "FUN7", Reverse Presser Feet "REPF", End
	"END")
В	Display the stitch number at current position
С	Display the total stitch number of the current pattern (Including Feed, Thread-trimming, End, Code, etc.)
D	The distance that X/Y has traveled
Е	Size of Pattern in X Direction
F	Size of Pattern in Y Direction
G	The time when the pattern was created

2.3.2 Speed Adjustment



Functions:

No.	Description
А	Increase the speed
В	Current sewing speed (200~2700) Display as speed value, if click this icon, you can jump to the standard parameter setting interface shortcut operation
С	Reduce the speed

2.3.3 Operation of Pattern Number Hot key



Functions:

No.	Description
۵	Pattern number hot key (Current pattern: Displayed in white figure on blue background), select
Α	other number to shift the pattern.
В	Pattern number display page turn key

Example:



As shown in the figure, the shortcut key list in this example contains 2 pattern numbers. The current pattern number is 001. If we select pattern No. 002, the current pattern will be shifted to pattern No.002



As shown in the figure, This example selects the number 002 pattern, the current pattern will be shifted to pattern No.002

2.3.4 Pattern Display



In the Main interface P1, click the pattern display area to enter the pattern preview interface

No.	Description
А	Pattern Name
В	Pattern Number
С	Size of Pattern in X Direction
D	Size of Pattern in Y Direction
E	Display Total Stitch Number of Pattern (Including Feed, Trimming, End, Code and so on).
F	Displays the current pattern type
G	Pattern Display.
Н	Quit current interface and return to the previous interface.
Ι	Free space in memory display
J	The pattern display interface is cyclically enlarged

2.3.5 Sewing Fabric Thickness Setting

The lowest position of the intermediate presser is changeable. If the lowest position of intermediate presser in the default setting is lower than the thickness of the used fabric, user $ca_{\mathbb{C}}^n$ use this function to change it.

[Note]: If users enter this interface when the intermediate presser is at down position, the system will hint "Lift Intermediate Presser".

[Note]: After entering the interface for setting the fabric thickness: only when the intermediate presser goes down, can user set this parameter.

[Note]: The range of this parameter is 0.0~8.0mm.



No.	Description	
А	Current Height of Intermediate Presser	
В	Target Height of Intermediate Presser	
C	Increase Height	
C	The intermediate presser goes up by 0.1mm at each pressing	
D	Decrease Height	
D	The intermediate presser goes down by 0.1mm at each pressing	
Е	Quit the current interface and return to the previous interface.	
	Move needle vertically.	
F	. Needle down	
	. Needle up	
	Press it to move the intermediate presser in the arrow direction	
G	Intermediate presser up	
	Let: Intermediate presser down	

Н	Save and Quit
Ι	Height setting of presser foot
G	Two - stage presser foot setting

2.3.6 Add counter setup

Push down 00000/99999 in P1 to enter the setting interface of adding counter.

[Note] Counting mode of add/subtract counter is determined by the "counter" parameter in operation setting mode (refer to parameter description in [2.8.6 parameter setting table]).



Functions:

No.	Content
А	Shift the input between the set value and the current value (The button in shadow is the selected one).
В	Display the set value and current value (User can input the value in the dotted frame)
С	Up Counter Switch
D	Clear current value.
E	Quit counter setting mode and return to previous interface.
F	Clear the value inputted currently
G	Number keyboard, used to input set value and current value
Н	Confirm the setting

[Note] The subtraction counter setting operation is the same as the addition counter operation.

2.4 Main Interface P2



No.	Functions	Content
^	Main motor Angle setting	Set the Angle of main motor. The following number represents the Angle
А	Main motor Angle setting	of the current angle.
В	wiper	Thread wiping output detection.
С	Trimming	Thread Trimming output detection.
D	Presser	Presser foot output detection.
Е	Middle-presser foot	M-presser foot output detection.
F	Release	Thread release output detection.
G	Reverse Presser	Reverse Presser foot output detection
Н	Auxiliary valve 1	Auxiliary valve 1 output detection
Ι	IO configuration	IO configuration parameters
J	Input signal	Input signal test
K	Reverse Pressers foot	Reverse presser output detection
L	Auxiliary valve 2	Auxiliary valve 2
М	Auxiliary valve 3	Auxiliary valve 3
N	MENU key	Display the catalogue
0	Reset button	The sewing needle goes back to its original point
Р	Winding pattern	Can be set whether winding
Q	Thread Looser current	Set the current of Thread loosening device when threading
R	Needle Positin Setup	: The needle down I : The needle up
S	X lock shaft	X axis lock /release
Т	Y lock shaft	Y axis lock /release
U	Trimming	Thread Trimming output detection.

V	Return key	Press it to return to the main interface 1
W	Coordinate values	Displays X/Y coordinate values

2.4.1 Winding Mode

For winding, user has to activate this interface . Step the frame switch to lower the frame and then step the running switch to run the sewing machine at the set speed. But the X & Y axis will not move. Step on the pedal again and the machine will stop in the up position.

[Note]: The winding action is determined by the parameter "Winding" set in the Operation Setting Mode. (Please refer to [2.8.6 Parameter List])





No.	Description	
А	Whether winding is allowed before origin detection	
В	Actual winding speed setting.	
	[Note] Decided by the parameter "winding core" -> "winding speed setting".	
C	Winding stop mode setting.	
C	[Note] Decided by the parameter "winding core" -> "winding stop-mode setting".	
D	Timed stop winding time setting.	
	[Note] Decided by the parameter "winding core" -> "timing stop winding time setting".	

2.5 Load Pattern



No.	Functions	Content
		Display the list of the saved pattern (Both number and name
		will be displayed).
	Pattern preview list	[Note 1]: If user selects pattern in VDT format, system will
А		ask user to transform the pattern format.
		[Note 2]: If the stitch number of the selected pattern is over
		range or the data is damaged, the system will hint that the
		pattern is unable to be selected.
В	Pattern No List	Display the list of the saved pattern number.
С	Return to Main Interface	Return to main interface directly
D	Find patterns	Find patterns
Б	Sequencing	Sequence the patterns according to their modification time or
E		number.
F	Dalata Pattarn	Delete the selected pattern.
1	Delete Pattern	[Note]: The currently sewing pattern cannot be deleted.
G	The save button	You can save the specified pattern
ц	Access key	Select a pattern from memory or USB drive as the current
п		sewing pattern.
т	Salaat Mamory/ II Dick	Load pattern from memory or U disk
1	Select Memory/ U Disk	Shift between U Disk and Memory
т	Enter	Confirm the operation. After the operation, the sewing pattern
J		will turn to the newly selected pattern.
K	Page down	Page down to look up interface
L	Page	Display current page number/ total page number
М	Page up	to look up interface
N	Pattern Display	Can preview patterns

2.5.1 Operation Instructions:



$\mathbf{3}_{\times}$ Select and Confirm Pattern Number

Select the pattern number for sewing and then press. After the selection, the system will return to the main interface directly.

[Note]: If the pattern with the same number exists in the memory when user loads pattern from U disk, the system will display "Replace Pattern in Memory?". At this moment, user need follow the given instructions.

4. Other Operations



$1 \searrow \mbox{Open}$ the Interface to Load Pattern

In main interface P1 (or P2), press



activate the catalogue mode, and then press

[Note]: If the moving frame is not at the origin, the system will be unable to load pattern. Therefore, please perform the operation for returning to origin first.

2 Select the Object for Loading (Memory/ U Disk)

The default setting in this interface is the Memory

Load Mode. You can press to shift to U Disk Load Mode, which is shown at below.

[Note]: If user performs the above operation without inserting the U disk, the system will display "U Disk Is Pulled Out".

2.5.2 Direct Load Mode



1. Select Direct Load Mode

Press in pattern loading interface to enter the Direct Load Mode.

[Note]: To load pattern by directly inputting the pattern number is limited to the memory load mode.

2 Input the First Number

(E.g. Load pattern No.01)

- (1) Input "1".
- ② The patterns saved in the memory whose first number is 1 will be displayed on the bottom keyboard as below:
- ③ Press **b** to clear the inputted number and re-input them.
- (4) At this moment, press to activate the pattern and then the system will return to the main interface and display the selected pattern.

E Direct read pattern 2021/04/30(Fri) 15:07											
		N	lame: 👖	ī							
Clear											
	q	w	e	r t	y y	ŭ	i	0	р		
#	а	s	d	f	g	h	j	k		%	
Caps	CN	z	х	С	V	b	n	m	Bac	kspace	9
					I				I		
-											
X					I			- 222			

3 Switch English to Chinese

(5) pattern search, you can input Chinese, switch to the Chinese input method mode to enter the search pattern.

2.5.3 Delete Pattern



User can press to delete a pattern. At this moment, the system will display "Delete Pattern from Memory?" (If the system is at U Disk Load Mode, the system will display "Delete the Selected File?".). User need follow the given instructions, but the pattern being sewn cannot be deleted.

2.5.4 Supported Data Format

At present, the supported formats by the system are: NSP format, B format, BA format, VDT format, EMB format, DST format, DSZ format, SEW format.

2.6 Save Pattern



No.	Functions	Content	
А	Input Pattern Name	Display the pattern name	
В	Input Pattern Number	Display the pattern number	
С	Memory surplus function	Look at the amount of memory left	
D	Display storage location	The storage location is memory The storage location is a usb flash drive	
Е	Keyboard	Input name or number	
F	Return key	Return to the previous screen	
G	Clear All Characters	Press it to clear all the inputted characters	
Н	Keep Pattern with Same Number	 keep the same number pat: Choose to keep the same number pattern, save the same pattern, pattern number is different keep the same number pat: not to keep the pattern with the same number 	
Ι	Select Memory/ U Disk	Select read memory or U disk pattern, toggle to select U disk or memory	
J	Identify key	Save the current Settings and exit to the previous screen	

Operation Instructions: MainWindow P 123 00000/99999 00000/99999 PROGRAM 4 DATA T FEED 001 9 00000 SPEED 9 () 00046 17 J Modify ABC 存储器开关 х Name: DATA Number:00 Clear << 3 9 0 2 4 5 6 8 b Backspace Cap En m keep the same number pat

1 Enter the pattern save interface

In main interface P1 (or P2), press

press to

activate the catalogue mode, and then press

[Note]: If the moving frame is not at the origin, the system will be unable to save pattern. Therefore, please perform the operation for returning to origin first.

2. Set Name and Number

The default setting in this interface is the Memory

Save Mode (you can see upper left of the
screen). You can press to shift to U Disk Save
Mode.
Press Name: DATA or
Number:003to input
the name or number.

Pressing Backspace is to delete the first

character at the left of the cursor, while pressing is to clear all the characters.

If user need shift between capital and small letters,



[Note]: User can decide the number for a pattern before saving; the filename of a pattern consists of "Pattern Name" + "@Pattern Number" + "Format Type.nsp".

3 Save Pattern

After the input, press to return to the main interface directly

[Note]: If the memory contains the pattern with the number same to that of the inputted one, the system will display "Replace Pattern in Memory?"





2.7 Figure play version

MENU



parameters are concentrated to facilitate user settings.

(5) **Determine input**

After the above data setting is completed, press the



to enter the cursor input interface.

Supplementary Instructions



No.	function	content			
А		Displays the relative coordinate X value of the current move. (In			
	X relative coordinates	parentheses is the difference between the position of the cross cursor			
		and the pattern)			
		Displays the relative coordinate Y value of the current move. (In			
В	Y relative coordinates	parentheses is the difference between the position of the cross cursor			
		and the pattern)			
С	X absolute coordinates	Displays the X value of the current coordinates.			
D	Y absolute coordinates	Displays the Y value of the current coordinates.			
Е	Stitch longth	Displays the set stitching distance.			
	Stichlength	[Note] Air feeding needle distance is 12.0mm			
F	Speed	Displays the current needle speed.			
G	Code	Displays the current input code.			
П		Display the number of pins/total number of pins in the current machine			
Н	Needle count	needle position.			
Ι	Number of shape points	The number of shapes entered during the current editing process.			
т	Relative value of intermediate				
J	presser height	Displays the current intermediate presser height relative value			
K	Absolute value of intermediate	Displays the summer time state are seen being to be able to see by			
	presser height	Displays the current intermediate presser height absolute value			
L	Typesetting	Various typing functions.			
М	Amplification	The pattern can be enlarged			
N	Concel lost input	Press this key to cancel the last determined input point and return to the			
	Cancer last input	previous input point.			
0	Change sewing machine speed	Press this button to switch sewing machine speed successively: low			
No.	function	content			
-----	-------------------------------------	---	--	--	--
		speed, high speed, medium high speed, medium low speed.			
Р	Direction key	Move the frame in all directions.			
Q	Table move speed set	The range is 1~3			
R	Enter	Confirm the current edit shape.			
S	Second origin	After the transfer, a second origin can be inserted at the current position.			
Т	Close	Closing function.			
U	Needle position setting key	Raise or lower the needle position			
V	Machine needle position setting key	⁵ Make the needle position rise or fall			
W	Intermediate presser up	Adjust the intermediate presser to rise			
Х	Return to origin	Press and then execute the return to origin command.			
Y	Quit	Return to the previous screen.			
Ζ	Menu	Go into directory mode.			
AA	Inching Movement(Click Move button)	 make inching movement forward/backward on generated pattern. make fast inching movement forward/backward on generated pattern. 			
AB	Pattern screen display	Display the current printing pattern			

2.8 Operation Setting

It is to set each parameter. For the description of each parameter, please refer to [2.8.6 Parameter List].

2.8.1 Setting Method



01/03 Thread Trim Sequence Release Thread Wiper Middle Presser Presser Stretch Presser Laser Cutting Halt Thread Breaking Sensor TOP Modified Standard Pa. 4 Input no.

2	Program mode <mode sele<="" th=""><th>2021/04/30(Fri) 16:01</th></mode>	2021/04/30(Fri) 16:01			
			01/0		
	Wiper	Thread Trim Sequence	Release Thread		
	Middle Presser	Presser	Stretch Presser		
Laser Cutting		Halt	Thread Breaking Sensor		
	Modified	Input no. Standard	Pa.		
6					

1 Enter Operation Setting:



2. Interfaces at Setting Mode

After entering the operation setting interface, There are many parameters can be chose, user

can use to turn the pages for selecting parameters.

3 Example :

(1) Mode Selection

Select the parameter for setting to activate the "Internal Parameter Setting Interface". Here, we press "Presser foot"





Program mode <mode p="" sele<=""></mode>	2021/05/06(Thu) 08:22			
	01/03			
Wiper	Thread Trim Sequence	Release Thread		
Middle Presser	Presser	Stretch Presser		
Laser Cutting	Halt	Thread Breaking Sensor		
Modified	Input no. Standard	d Pa.		

(6) View the modified parameters a)Enter password input mode

In the "Mode Selection" screen, press the "Modified Settings" button.,After the password is entered correctly, the modified parameter setting mode will be entered.(See [2.8.3 Parameter Mode Encryption Instructions] for more information on password setting.)

b) Enter Modified Parameter Setting Mode

In this interface, the modified content of the parameter will be displayed. User can modify it again in this interface (Here, press "E-9").

If user wants to restore the modified parameters, he should press the button with the name of that parameter (Here, he can press "Pedal Operation Method") and then click "Restore". After that user only needs to follow the instruction of the system.

If user wants to restore the entire setting to their default values, he can press "Restore All". After that user only needs to follow the instruction of the system.

2.8.2 Types of Parameter Setting

There are two ways for setting parameter: selection type and input type, as shown below:

🛢 Progra	m mode <value modification=""></value>	2021/05/06(Thu) 09:00	Program mode <value modification=""></value>	2021/05/06(Thu) 09:02
E-9	Single pedal operation permission	01/01	460 Set valid range for X left direction	
OFF	Disable		101 mm Range:0 - 2000	1 2 3
			Set according to the actual size of the model	
ON	Enable			4 5 0
				7 8 9
				0 ↑ ↓
				clr
X			× //	

Selection Type

Input Type

2.8.3 Parameter Encryption

In the parameter mode, each operation entrance can be attached a password, so as to avoid the mistake operation.



1 Enter Parameter Encryption Interface:

In main interface P1 (or P2), press to activate the catalogue mode, and then press to Enter the interface for setting functions.





2 Select Parameter for Encryption:

As shown in the picture, user can select one or many parameters for encryption. (Here, we select "Bobbin Winding".)



After selecting the parameter for encryption, user



From then on, user has to input password when setting the parameter that was encrypted.



	lew p	basswoi	rd setting	3					2021	/05/06(TI	nu) 09:20
(Cur-F	Passwor	d:		Ne	ew-Passw	ord:				
_		Confir	m:								
1		2	3	4	5		5	7	8	9	0
-		Q	w	E	R	τТ	/ [U	Ι	0	Р	
#		А	S	D	F	G	H		К		%
		(Ζ	Х	С	V	В	Ν	М)	
X						2					\checkmark

3、 Change Password

In the interface of setting new password,

press Cur-Password:	
New-Password:	&
Confirm:	in

order and input the current password, new password, new password confirmation respectively. At last



[Note]: The original password is the manufacturer ID. After setting the password, the current password is the password set last time.

2.8.4 Recovery and Back-up of Parameters



User can save the changed parameter into U disk for the recovery operation in future.

Text

1 Senter Interface of Parameter Recovery and Back-up:

In main interface P1 (or P2), press **1** to

activate the catalogue mode, and then press Enter the interface for setting functions.

In the function setting interface, press

to



2 Back up Parameters

Enter the restore backup parameters interface. By default, backup user parameters.

After inserting the usb flash drive, press . Once the operation is successful, a "bakParam" directory will be automatically created on the usb flash drive. The "backup.param" file in this directory is the parameter backup file.

[Note] if there is a file with the same name, it will be stamped with new data and the original data will disappear.



3、Restore parameters

Click the "restore mode" key to select the parameters that are not restored on the left side of the interface, and

then press the "ok" key to perform the parameter restore operation, and return to the previous screen after the operation is successful.

4. Save user defaults

Select the "write user default value" key, press the

"ok" key , the system will prompt for the input of permission 2 password, after the successful input will directly perform this operation.

5、 Clear user defaults

After successfully writing the user default value, the "clear user default value" key is optional, and the user

default value can be cleared by pressing



2.8.5 Default Parameter Recovery

User can restore the parameters to their default values. Additionally, user can also save the set parameters for the usage in future.



1 . Enter Default Parameter Recovery:

In main interface P1 (or P2), press



activate the catalogue mode, and then press enter the interface for setting functions.

Function mod	le		2	:021/05/06(Thu) 09:06
Ver. Version	600 & 601 ···· Cycle program	Panel Setting	Func. Shortcut	Pattern management
Backup/Recov.	Program	Encrypt	Password	Date/Time
Log	Update	System Para.	Pattern list	
ТОР				Text



Default

Hr

ŧ.

In Function Setting Interface, press and then input the password (the original password is the manufacturer ID). With the correct password, user can enter Default Parameter Mode

2. Use the Default Parameter

Click the corresponding default parameter and then press "System Default" to reload that value

After the reloading, the system will return to the upper interface automatically.

[Note] Some important parameter, like "Spindle Motor Stop Angle" cannot be restored in this operation.

3 Save Customized Parameter

Press "Custom" to enter the interface of Customized parameter setting interface, where user can save the parameter set value.

Click	User parameter02(None)	~	
User parameter15(None	to confirm the position	for	
saving, and then click	to save it.		

After the saving, the system will return to the upper interface automatically

[Note] After saving, it will exit automatically and return to the previous screen.





4. Load Parameter Saved by User

The method to enter the interface is the same as above, Check the content on button "Customized Parameter xx (Y/N)". If it is Y in the bracket, it means there is saved customized parameter.

Click that key and press to reload the corresponding parameter. After the operation, the system will return to the upper interface automatically.

2.8.6 Parameter List

1、Wiper

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
566	Trapper	Switch of needle lifter			OFF:The wiper is off ON:The wiper is on	0	Choose
557	Line dialer type selection	Line dialer type selection			0:Default 1: Use electromagnet wire sweeping device 2: Use pneumatic line sweeping device	0	Choose
A-1	Dial switch	Line puller (W) output switch			OFF:The wiper is off ON:The wiper is on	ON	Choose
A-2	Puller start time	The starting time of the line puller (W) can be set according to the time of line cutting, usually don 't need to change.	ms	2	$0^{\sim}998$	30	Input
A-3	Line puller hold time	The holding time of the line puller (W) can be set, which can be set according to the time of line cutting.The time can be extended if necessary	ms	2	$0^{\sim}998$	30	Input
A-4	The delayer ends the delay	After the line puller action, delay waiting for the reset mechanism	ms	1	$0^{\sim}255$	0	Input
A-6	The wire clip holds the current	The wire clip holds the current		1	0~16	8	Input
A-7	Dial the timing	Dial the timing			0:UP:mid-pressor top 1:MID:mid-pressor top(Down position) 2:DOWN:mid-pressor bottorn	0	Choose

2 Thread Trim Sequence

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
150	The inverted needle goes up	Position Angle of needle after cutting thread			0: the needle 1: top dead center	0	Choose
164	Shear line switch	Shear line switch			0:OFF:OFF 1:ON:ON	1	Choose
В-2	Trimming mode	Trimming mode			0:MAG: Solenoid 1:AIR: Air valve 2:MOTOR: Motor	0	Choose

В-3	Shear velocity	Shear velocit	, y	x10RPM	1	10~40	40	Input
B-5	Thread cutting delay	Thread cutting d	lelay	x0.01s	1	0~255	12	Input
В-6	Cutting output startup Angle	Cutting output st Angle	artup	Degree	2	0~359	210	Input
B-7	Automatically add cuttin line when printing	ngAutomatically add o line when print	cutting ting			0:OFF:OFF 1:ON:ON	1	Choose
В-8	Whether to cut the thre before sewing time and space	ad Whether to cut the 1 before sewing tim space	thread ne and			0:OFF:OFF 1:ON:ON	0	Choose
В-9	Whether to cut the threat the end of sewing	ad Whether to cut the at the end of se	thread ewing			OFF: OFF ON: ON	1	Choose
B-10	Correction of parking Angle in upper positic after line cutting	Correction of pa n Angle in upper po after line cutt	rking sition ting	Degree	1	0~100	0	Input
3, R	elease Thread						•	
No.	Brief description	Detailed instructions	Unit	Step length		Range	Factory value	Туре
551	The loose thread setting at the beginning of sewing	Set the number of stitches that the looser will open at the beginning of sewing	stitche	es 1		0~3	0	Input
552	Loose line synchronization during tangent	Start Angle of loose wire	Degree	e 2		0~359	300	Input
564	Looser turns on mode	0: Low, open, unlimited 1: in, off, 5 minutes 2: High, off, 1 minute 3: Medium, open, unlimited 4: High, off, 5 minutes 5: Action according to the given value of threading time and threading current		1		0~5	0	Input
567	Whether to open the thread looser after wire cutting by air	Whether to open the thread looser after wire cutting by air				0:0FF:close 1:0N:open	0	Choose

C-1	Type of wire clamper	Type Choose	0:MCN:Mechanical thread nipper 1:ELC:Electrical thread nipper	0	Choose
C-2	Loose wire delay	Loose wire delay	$0^{\sim}255$	30	Input
C-4	Thread looser opens delay when threading	Thread looser opens delay when threading	0~255	0	Input
C-5	The wire looser turns on the current when threading	The wire looser turns on the current when threading	0~255	25	Input
C-6	Whether to open loose thread after sewing	Whether to open loose thread after sewing	0:OFF:OFF 1:ON:ON	0	Choose

4. Middle Presser

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
053	Delay time after intermediate presser up	Delay time to prevent colling with mold in movement	ms		$0^{\sim}255$	0	Input
054	Intermittent presser foot lowering time	Intermittent presser foot lowering synchronization			0: Before the sewing machine head starts1: Synchronize with the final presser foot	0	Choose
D-1	Intermittent presser foot type	Selection of intermittent presser foot gas valve, stepping and electromagnet			0:AIR:Air Valve 1:STP:Step motor 2:MAG:Solenoid	1	Choose
D-3	Intermittent presser foot current	Intermittent presser foot current			2~8	4	Input
D-5	Intermittent presser foot stroke setting	Setting of upper and lower values of intermittent presser foot	x0.1mm	2	0~220	150	Input
D-6	Intermittent presser foot lowering delay	Intermittent presser foot lowering delay			0~255	0	Input
D-7	Intermittent presser foot action speed	Intermittent presser foot action speed			8~17	13	Input
D-9	Does the intermittent presser foot follow	Does the intermittent presser foot follow			0:OFF:OFF 1:ON:ON	1	Choose
D-16	Number of stitches reduced by intermittent presser foot	Number of stitches reduced by intermittent presser foot			0~3	0	Input
D-17	Height of intermittent presser foot lowering	Height of intermittent presser foot lowering	x0.1mm		0~30	0	Input

5. Clamp

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
001	Presser foot rising mode after sewing	Presser foot status after sewing			0:After returning to the starting point, the presser foot rises again 1:The presser feet rise immediately after sewing 2:Return to the starting seam first, and then press the foot up after stepping on the pedal	0	choose
002	Left and right separation presser foot descending action (pneumatic)	Separate the presser foot from the left to the right			 0: Lower the left and right presser feet simultaneously 1: The presser foot drops left and then right 2: Presser foot first right and then left drop 	0	choose
003	Pressure frame drop action (motor)	Motor pressure frame simulates pedal control mode			0: Simulated descent: Decide the descent amount according to the step amount of the pedal, and finally start 1:1 stage drop: the pressure foot drops in the first gear, and starts in the second gear 2 Stage 2 descent: stop in the middle of gear 1, start after gear 2 descent	2	choose
050	Presser foot working mode	0: Standard double pedal, pressing foot pedal controls the big pressing foot, starting pedal starts the sewing 1: Standard double pedal, pressure foot pedal interval control large pressure foot and auxiliary pressure foot lifting, start the pedal to start the sewing 2: Standard double pedal, press foot pedal spacing left and right press foot, start the pedal to start sewing 3: Standard three			0~10	0	input

pedals, pressing foot			
pedal to control the big			
pressing foot, the			
middle pedal to control			
the auxiliary pressing			
foot the starting			
pedal to start the			
sewing			
4: Left and right			
presser feet ->			
intermittent presser			
feet of 2 sections.			
Single pedal gear 1 is			
left and right presser			
foot, gear 2 is			
intermittent presser			
foot, gear 3 controls			
start. The middle pedal			
controls the lifting of			
intermittent presser			
foot			
5:2 sections of presser			
foot alternately left			
and right. The pressing			
foot pedal controls the			
left and right order of			
the two pressing feet to			
be exchanged each time			
sewing			
6: Forward/Back Pedal.			
The press foot pedal			
controls the left and			
right press feet to lift			
up in turn, and the			
starting pedal controls			
the left and right press			
feet to fall down in			
order, and then presses			
on to start sewing after			
all falls down			
7: Step twice on the 2			
stage presser foot.			
Single pedal control			
motor presser foot in			
the middle position,			
down, start three			

		position switch when				
		the presser foot back				
		un Double nedal				
		nneumatic presser				
		action is the same as				
		mode 2				
		R: Standard three				
		8. Standard three				
		pedal, press loot pedal				
		foot to the beight of				
		the accord store the				
		middle pedal control				
		midule pedal control				
		motor press foot to drop				
		to the position, start				
		the pedal to start the				
		9: Inree pedals with				
		origin detection.				
		Special origin				
		detection for the				
		middle pedal, pressing				
		foot pedal to control				
		the lifting of the left				
		and right pressing				
		loot, starting pedal				
		can only start sewing				
		10: Special three				
		pedals with origin				
		detection. Special				
		middle nodel proce				
		fact redel to control				
		the left and might proce				
		feet rice and fell				
		noot fise and fall,				
		press the starting				
		down the right proce				
		foot and then start				
				0. Before the origin		
				detection, the up and down		
		Check whether the		movement of the presser foot		
	Pressing plate action	pressure plate before		cannot be carried out		
051	before origin detection	the origin is allowed to		1: Before the origin	0	choose
	-	move		detection, the up and down		
				movement of the presser foot		
				can be carried out		

052	Presser foot action during seam breaking procedure	Pressing plate state when stop midway	0: Press down the plate 1: the pressure plate is lifted	oose
055	Pneumatic pressure frame output polarity reversal	Pneumatic pressure frame output polarity reversal	0: invalid 1: Pneumatic specifications for valve output reversal 2: Because the two positioning 0 choose valves correspond to each other, the output reverses the valve output at the same time	oose
058	The foot pressing movement at the end of sewing	After the completion of automatic processing, the press plate is lifted	0: The press plate will automatically lift after sewing 0 chow 1: The press plate does not lift after sewing	oose
059	Pressing frame weight selection	Pressing frame weight selection	-1:light 1:Standard -1 chow 0: heavy	oose
E-1	Press type selection	Press type selection	0:AIR:pneumatic 1:MAG:electromagnet 0 cho 2:MOTOR:motor	oose
E-2	Can we sew when the press is up	Can we sew when the press is up	0:OFF:Can't sew 1:ON:Can sew 0 cho	oose
E-7	Left and right separation pressure plate lifting action	Left and right separation pressure plate lifting action	0:LRT:The press plate is lifted after processing 1:LTD:After finishing the machining, the left press plate is pressed down continuously 2:RTD:After finishing the machining, the right press plate is continuously pressed down	oose
E-9	Single foot pedal operation is allowed	Single foot pedal operation is allowed	0:OFF:Prohibit 1:ON:Permit 0 cho	oose
E-10	Two stage press enabler	Two stage press enabler	0:OFF:Prohibit 1:ON:Permit 0 cho	oose
E-11	Height of two stage press plate	Height of two stage press plate	0~255 80 Inp	nput
E-12	Press plate stroke setting	Press plate stroke setting	0~200 180 Inp	nput

E-13	Pressure plate current setting	Pressure plate current setting		$0^{\sim}15$	2	Input
E-14	Delay start setting after pedaling	Delay start setting after pedaling		0:OFF:Prohibit 1:ON:Permit	0	choose
E-15	Start delay after pedaling	Start delay after pedaling		0~200	20	Input
E-16	Whether the external pressure frame is raised at the secondary origin	Whether the external pressure frame is raised at the secondary origin		0:DOWN:Don't lift pressure box 1:UP:Lift pressure box	0	choose

Stretch Presser

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
556	Turnover device	Support for turning and stretching the foot 0 - no 1- flip foot (F1 foot) 2- telescopic pressure foot (parking) 3 - F2 presser foot 4 - K presser foot 5- telescopic foot (no stopping)			0 [~] 255	0	Input
F-2 F-3	Telescopic foot action when returning to the origin Extension delay of	Telescopic foot action when returning to the origin Extension delay of tolescopic	x0. 01s	1	0:0FF:No action 1:MRH:Move out first and return to the origin 2:HRM:Return to the origin first and then move out 0 [~] 255	1 30	Choose
	telescopic press foot	telescopic press foot					
F-4	Expansion foot rise delay	Expansion foot rise delay	x0.01s	1	$0^{\sim}255$	45	Input

F-5	Telescopic foot drop delay	Tel foc	escopic ot drop delay	x0.01s	1		0~255		30	Input
7、La	aser Cutting									
No.	Brief description		Deta	iled instr	ructions	Unit	Step length	Range	Factory value	Туре
G-1	Laser cutting switch		Lase	er cutting	switch			0:OFF:OFF 1:ON:ON	0	Choose
G-2	Laser cut X offset		Las	Laser cut X offset				-5000~5000	0	Input
G-3	Laser cut Y offset		Las	ser cut Y o	offset	x0.1mm		-2000~2000	0	Input
G-4	Laser cutting speed		Las	er cutting	speed			1~9	1	Input
G-5	Laser suction switch		Lase	er suction	switch			0:OFF:OFF 1:ON:ON	OFF	Choose
G-6	Laser suction opens the c	lelay	Laser su	ction open	s the delay			0~65535	100	Input
G-7	Laser suction closes the c	lelay	Laser su	ction close	es the delay			0~65535	100	Input
G-8	Delay before laser sta	rt	Delay	Delay before laser start				0~65535	100	Input
G-9	Delay after the laser h drops	ead	Delay a	after the drops	laser head			$0^{\sim}65535$	100	Input
G-10	Delay after lifting the l head	aser	Delay af	ter liftin head	g the laser			0~65535	0	Input
6-11	Inflection point decelera mode	ation	Inflecti	on point d mode	eceleration			0: OFF: don't start 1:L-ON: laser phase only 2: S-ON starts only at the seam section 3: All laser section and seam section are activated	0	Choose

8、Halt

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
651	According to the stop switch to determine the sewing stop position	Pause timing pin position			0: Positioning of the down needle 1: Positioning of the up needle	1	Choose
652	The tangential action of a	Automatic trimming during			0: Automatic thread	1	Choose

	pause	pause			cutting		
					1: Don't cut line		
656					0: Moving to start point of		
					sewing after reset		
	Reset mode during pause	Reset mode during pause			1: Do not return to the	0	Choose
	Reset mode during pause	Reset mode during pause			origin, and move backward	0	choose
					on the sewing track to the	ę	
					starting point of sewing		
<u>п</u> -0	Drace estion during pourse	Drace estion during pourse			0: DWN:Clamp down	0	Chasse
Π-2	rress action during pause	rress action during pause			1: UP:Clamp up	0	choose
п_2	Dougo emitch tupo	Dougo emitch tupo			0: often shut	0	Chasses
п-э	rause switch type	rause switch type			1: often open	0	choose
ΠE	Sofato omital toma	Sofato onital tona			0: often shut	0	Chasses
п-э	Salety switch type	Salety switch type			1: often open	0	Choose

9、Thread Breaking Sensor

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
554	Break line detection	Break line detection			0: OFF:Thread Breaking detection off 1:ON:Thread Breaking detection on	0	Choose
555	Detection sensitivity of broken wire detection device	The number of invalid stitches at the beginning of stitching during thread break testing			$0^{\sim}15$	8	Input
I-3	The number of invalid stitches during sewing during the detection of broken thread	The number of invalid stitches during sewing during the detection of broken thread	stit ches		$0^{\sim}15$	3	Input
I-4	Whether to cut the wire when testing broken wire	Whether to cut the wire when testing broken wire			0:0N:Perform thread trimming when thread breaking 1: OFF:Don't perform thread trimming when thread breaking	0	Choose
I-5	Sensitivity of wire break sensor	Sensitivity of wire break sensor			1~10	4	Input

10, Feed Method

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
200	l needle test feed cloth	1 needle to detect the feeding mode			0: Push down the foot switch to automatically run to the last stitch	0	Choose

				1. Step down the foot		
				switch and move forward		
				noodle by noodle After		
				fooding the cloth food the		
				reearing the croth, reea the		
				cloth needle by needle by		
				turning the hand wheel		
				0: Usually slow step foot		
	High speed test feeding	High speed test feeding		switch gear 1 for high		
252	cloth	cloth		speed cloth feeding	0	Choose
				1: Test the speed of cloth		
				feeding and sewing		
		0:-10: in advance				
	Change all fooding	1:0:norm 2:10:				
260		delay		-10~10	-3	Input
	synchronizations	Each digit corresponds to				
		8 degrees				
		0:-10: in advance				
	Change sewing to start the	1:0:norm 2:10:				
261	first stitch feeding	delay		-10~10	-3	Input
	synchronize	Each digit corresponds to				
		8 degrees				
		010. in advance				
	Change sewing to start the	1:0:norm 2:10.				
262	2nd stitch feeding	delav		-10~10	-3	Input
202	synchronize	Fach digit corresponds to		10 10		input
	Synchron12e	8 dogroop				
		0. 10 in advance				
	Change coming to stant the					
000	Change sewing to start the	1:0:norm 2:10:		10010	0	Turret
263	3rd stitch feeding	delay		-10-10	0	Input
	synchronize	Each digit corresponds to				
		8 degrees				
	Change the feeding	0:-10: in advance				
	synchronization of 3	1:0:norm 2:10:				
264	stitches before the end of	delay		-10~10	-1	Input
	sewing	Each digit corresponds to				
		8 degrees				
	Change the feeding	0:-10: in advance				
	synchronization of 9	1:0:norm 2:10:				
265	synchronization of 2	delay		-10~10	1	Input
	sowing	Each digit corresponds to				
	Sewing	8 degrees				
	Change the first	0:-10: in advance				
000	change the feeding	1:0:norm 2:10:		10~10	~	Terret
200	synchronization of 1	delay		-10,-10	U	Input
	stitch before sewing	Each digit corresponds to				

		8 degrees						
		When the total feed						
		synchronization change	es					
		from the initial value						
		(set to No 260) speci	fv					
		the number of offecti	. 1 у					
	The number of offective	the number of effecti	ve					
907	the number of effective	stitches:				0~00	0	Turret
207	stitches in synchronous	0: Unlimited				0 99	0	Input
	Teeding	1 99: If more than th	e					
		number of stitches						
		specified at the						
		beginning of sewing,						
		return to the standar	ď					
		feeding synchronization	on					
					(0: starting datum of cloth		
						feeding		
268	Change the base of feeding	Change the base of feedi	ng			1: needle benchmark	0	Choose
	synchronization	synchronization			4	2: the end of cloth feeding		
						benchmark		
						3: speed linkage		
						0:Tin		
J-1	Sewing type Choose	Sewing type Choose				1:Middle	0	Choose
						2:Thick		
J-2	Thin material thickness	Thin material thickne	ss			$0^{\sim}255$	0	Input
J-3	Medium material thickness	Medium material thickne	SS			0~255	15	Input
J-4	Thick material thickness	Thick material thickne	ss			0~255	30	Input
						0:Stop the lift		
J-5	Fitting way	Fitting way				1:Pick up and continue to	0	Choose
						move		
		The mode of moving tw	'O					
J-10	Fast moving mode (type)	points in printing an	d			U: LINE:Linear movement	1	Choose
		graphics modification	n			1:PAI:Follow the needle		
J-15	Moving frame gain curve	Moving frame gain cur	ve			1~3	1	Input
J-16	X axis rigidity fine	X axis rigidity fine				-15^{\sim} 15	0	Input
	tuning	tuning						-
J-17	X axis speed adjustment	X axis speed adjustme	nt			$-50^{\sim} 50$	0	Input
J-18	Y axis rigidity fine	Y axis rigidity fine				-15^{\sim} 15	0	Input
	tuning	tuning						
J-19	Y axis speed adjustment	Y axis speed adjustme	nt			$-50^{\sim} 50$	0	Input
11、	Bobbin Winding						1	
No.	Brief description I	Detailed instructions	Unit	Step		Range	Factory	Туре

				length		value	
056	Whether winding is allowed before origin detection	Whether winding is allowed before origin detection			0:OFF:Can't winding 1:ON:Can be winding	0	Choose
K-1	Winding speed setting	Winding speed setting	x100RPM		2~27	13	Input
K-2	Setting the stop mode of winder	Setting the stop mode of winder			0:Stop winding when pedal up 1:Stop winding when stepping on pedal again 2:Time to stop winding	1	Choose
K-3	Fixed stop winding time setting (unit second)	Fixed stop winding time setting (unit second)	S	2	$2^{\sim}\!498$	30	Input

12, Slow Start

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
100	Sewing start speed	Whether to slow up the needle			0:low speed 1: high speed	0	Choose
151	Fast first stitch start speed	Fast first stitch start speed	x100RPM		2~30	10	Input
152	Fast second stitch start speed	Fast second stitch start speed	x100RPM		2~30	15	Input
153	Fast third stitch start speed	Fast third stitch start speed	x100RPM		2~30	22	Input
154	Fast fourth stitch start speed	Fast fourth stitch start speed	x100RPM		2~30	30	Input
155	Fast fifth stitch start speed	Fast fifth stitch start speed	x100RPM		2~30	30	Input
156	Speed of 5 stitches before sewing	Speed of 5 stitches before sewing	x100RPM		$4^{\sim}27$	25	Input
157	Speed of 4 stitches before sewing	Speed of 5 stitches before sewing	x100RPM		4~27	26	Input
158	Speed of 3 stitches before sewing	Speed of 3 stitches before sewing	x100RPM		4~27	12	Input
159	Speed of 2 stitches before sewing	Speed of 2 stitches before sewing	x100RPM		4~27	12	Input
L-1	First start speed	First start speed	x100RPM	1	2~30	3	Input
L-2	Second start speed	Second start speed	x100RPM	1	2~30	7	Input
L-3	Third starting speed	Third starting speed	x100RPM	1	2~30	10	Input
L-4	Fourth starting speed	Fourth starting speed	x100RPM	1	2~30	15	Input
L-5	Fifth start speed	Fifth start speed	x100RPM	1	$2^{\sim}30$	20	Input

No.	Brief description	Deta	iled instruction	ns Uni	t length		Range		Factory value	Туре
14、.	Area Limit					1				
M-14	Sewing speed rati	0	Sewing s	peed rat	io	%	5	70 [~] 100	100	Input
M-13	Single step speed se	tting	Single step	speed se	etting			0~40	30	Input
M-12	Find the interval at the	e origin	Find the origin t larger the value ti	time inte e, the lo me)	rval (the	9		5~10	7	Input
M-11	Back stitch speed se	tting	Back stitch	speed se	etting			0~9	7	Input
M-6	Version delay sett	ing	Version de	lay sett	ing			0~9	4	Input
M-5	Transfer delay sett	ing	Transfer de	elay set	ting			0~255	0	Input
M-4	Medium-low speed set	ting	Medium-low s	speed se	tting	x100RPM		2~30	10	Input
M-3	Medium high speed se	tting	Medium high	speed se	etting	x100RPM		2~30	15	Input
M-2	Low speed setting	g	Low spee	d settin	ıg	x100RPM		2~30	2	Input
M-1	High speed settin	g	High spee	ed setti	ng	x100RPM		2~30	23	Input
251	Feed speed	eed The higher the			he faste	r file		0~9	7	Input
No.	Brief description	n	Detailed i	Unit	Step length	Range	Factory value	Туре		
13、	Speed									
L-9	End reinforcement needle count	End rein	forcement needle count	0~4			0	Input		
							several stitches			
L-8	End reinforcement method	ethodEnd reinforcement method			1	:Condensed firs 2:Backtac	l sewing t stitch k at beg	at the i gining	0	Choose
						0:None				
L-7	Number of reinforcement stitches	Number o	of reinforcement stitches		1	-4~4			0	Input
	reinforcement	rei	nforcement			2:Backtack severa	k at beg l stitch	;ining nes	Ŭ	encose
I –6	The method of seam	The me	ethod of seam		1	0 :Condensed	:None sewing t stitch	at the	0	Choose

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
460	Set the effective range to the left of X	Set the effective range to the left of X	mm		0~2000	500	Input
460-R	Set the effective range to the right of X	Set the effective range to the right of X	mm		0~2000	500	Input

461	Set the effective range in the Y up direction	Set the effective range in the Y up direction	mm	0~2000	3	Input
461-D	Set the effective range in the direction below Y	Set the effective range in the direction below Y	mm	0~2000	200	Input
N-1	Cancel range protection	Cancel range protection		0:OFF:Range protection off 1:ON:Range protection on	1	Choose
N-6	It's forbidden to move in the X direction	It's forbidden to move in the X direction		0:OFF:OFF 1:ON:ON	0	Choose

15. Moto

15、	Motor						
No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
161	Penetrating force enhancement action	Penetrating force enhancement action			0:0FF:Invalid 1:0N:When the motor of the sewing machine is locked, the penetration enhancement action is carried out	0	Choose
165	Reverse the Angle at which the needle rises	Angle setting of upper dead center	Degree		0~50	3	Input
P-1	X motor steering	X motor steering			0:Positive 1:Negative	1	Choose
P-2	Y motor steering	Y motor steering			0:Positive 1:Negative	1	Choose
P-3	Z motor steering	Z motor steering			0:Positive 1:Negative	0	Choose
P-4	The X sensor is on the left or right side of the nose	The X sensor is on the left or right side of the nose			0:L:Left side 1:R:Right side	0	Choose
P-5	Is the Y sensor on the front or rear of the nose	Is the Y sensor on the front or rear of the nose			0:F:Front 1:B:Back	1	Choose
P-6	Spindle type Choose	Support for 550W and 750W types			0:550:550W 1:D00:750W-D00/F 11 2:F00:750W-F00	1	Choose
P-7	Spindle motor stop Angle	Spindle motor stop Angle	Degree		30~63	59	Input
P-8	Upper dead point Angle setting	Set the Angle of parking to the top dead center	Degree		0~50	3	Input
Р-9	P2 frame shift direction	P2 frame shift direction			0:Same	0	Choose

	setting		setting		1:Reverse					
16、	Home Position				I					1
No.	Brief description	Det	ailed instructions	Unit	Step lengt	h	Range		Factory value	Туре
057	The presser foot action when the starting point of sewing moves after the origin detection	0.	rigin foot action			0: P afte 1: ori	ress down r return After r gin, the]	the presser foot ing to the origin eturning to the presser foot is ifted	1	Choose
250	Mechanical origin reset at the end of sewing	Whet or	her to retrieve the igin after sewing			0: N 1 3:	lo origir : Origir re 2: Back Go strai	n search, stop in situ n (sub-origin) trieval up seam point ght back to the origin	1	Choose
254	The route of movement towards the origin position and the starting point of sewing	ret: c	Normal origin rieval/origin reset sircuit selection			4:	0: 1: 2:Y axi 3:X axi x, y ax	standard reverse s to X axis s to Y axis is synchronous	0	Choose
270	Origin action when pattern switching	0. F	rigin action when battern switching			0: N 1: T is pas	o origin he origir not carr ses thro c 2: Perfo retrie	retrieval action retrieval action ried out, but it ugh the regional center rm the origin eval action	0	Choose
450	The starting point movement mode when the pattern is switched	The s'	origin action when witching patterns			0: S ar I 1: V move	tep on th ad then n pattern s while swi to the the n	ne pedal to start, nove to the new starting point tching patterns, starting point of ew pattern	0	Choose
Q-1	It goes back to the origin	Itgo	pes back to the origin			0:0	DFF:Don't po N:Return	return to home osition to home position	0	Choose
Q-2	Lifting back to the origin is prohibited	Li or	fting back to the igin is prohibited			0: 1:0N	OFF:Perm home Forbid	it returning to position returning to home osition	0	Choose

Q-4	Set the reset path of the starting point	Set the reset path of the starting point		 0: the line returns to the starting seam 1: return the starting point by pattern 2: search at the origin and then at the seam 	0	Choose
Q-5	Whether to Choose the dead point when the origin is retrieved	Whether to Choose the dead point when the origin is retrieved		0:OFF:do not Choose the dead point when retrieving the origin 1:ON: Choose upper dead point when retrieving the origin	0	Choose
Q-8	Reverse origin retrieval/origin reset line Choose	Reverse origin retrieval/origin reset line Choose		0:Standard 1:Reverse 2:Y-Axis to X-Axis 3:X-Axis to Y-Axis 4:Synchronize X and Y axis	0	Choose

17, Counter

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
R-1	Counter mode	Counter mode			0:Up counter is not executed 1:Up counter increases every 1 sewing pattern is executed 2:Up counter increases every 1 combined data cycle is executed	1	Choose
R-2	Decrement counter mode	Decrement counter mode			0:Up counter is not executed 1:Up counter increases every 1 sewing pattern is executed 2:Up counter increases every 1 combined data cycle is executed	1	Choose
R-3	Whether the increment counter value is retained when importing the pattern	Whether the increment counter value is retained when importing the pattern			0:Clear 1:Reserve	1	Choose
R-4	Whether the decrement counter value is retained when importing the pattern	Whether the decrement counter value is retained when importing the pattern			0:Clear 1:Reserve	1	Choose
R-5	Remove calculator when power is restarted	Remove calculator when power is restarted			0:Clear 1:Reserve	1	Choose
R-6	The UP is not allowed to be modified	The UP is not allowed to be modified			0:OFF:The current value of the UP counter can be modified 1:ON:The current value of the UP counter can't be modified	0	Choose
R-7	The subtracter (DN) is	The subtracter (DN) is			0:OFF:The current value of the	0	Choose

	not allowed to be	not allowed to be		UP counter can be modified		
	modified	modified		1:TON:he current value of the UP		
				counter can't be modified		
	Operation of the sewing	Operation of the sewing		0: OFF:Stop sewing 1:		
R-8	machine when the UP set	machine when the UP set		ON:Sewing operation can be	0	Choose
	point is reached	point is reached		continued		
	Operation of the sewing	Operation of the sewing		0. OFF: Stop cowing 1.		
P_0	machine when the	machine when the	ON Sector sewing 1:		0	Choose
К-9	subtracter (DN) setting	subtracter (DN) setting		on. Sewing operation can be	0	choose
	value is reached	value is reached		continuea		
D_11	Counton chuttle chonge	Counton chuttle chonge		0: OFF:OFF	0	Chasse
R-11	counter snuttle change	counter snuttle change		1: ON:ON	0	Choose

18、LCD Screen

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
401	Loop program setup	After opening, the "Program" button on the main interface P1 is changed to the function of cyclic PROGRAM editing			0: OFF:OFF 1: ON:ON	0	Choose
S-1	Buzzer sound setting	Buzzer sound setting			0: 0:Mute 1:1: Panel voice 2:2:Panel voice+alarm	2	Choose
S-3	Backlight auto off switch	Backlight auto OFF switch, OFF: not auto OFF, ON: auto OFF			0: OFF:Disable auto off 1: ON:Enable auto off	0	Choose
S-4	Backlight automatically turns off wait time	Backlight automatically turns off wait time	Minute		1~9	3	Input
S-5	Main interface pattern display Settings	Set main screen pattern to display background color 0: black 1: cyan 2: red 3: green 4: blue 5: purple 6: yellow			0~6	0	Input
S-7	Main interface button display style	Set the key display style under the main interface			0: ICN:Icon: 1: TXT:Text	0	Choose
S-8	Key display style	Set the display style of the key in detection mode and function mode			0: ICN:Icon: 1: TXT:Text	0	Choose
S-9	Modify and change the key display style	Modify and change the key display style			0: ICN:Icon: 1: TXT:Text	1	Choose

r						1	
S-11	Large needle count pattern support support		0: OFF:OFF 1: ON:ON	0	Choose		
S-12	Vector graphics conversion stitch Settings	Vector graphics conversion stitch Settings	1 x0. 1	mm	10~127	30	Input
S-13	Description of sewing progress	Description of sewing progress			0: OFF:OFF 1: ON:ON	1	Choose
S-14	Switch lock display Settings	Work with template recognition			0: OFF:OFF 1: ON:ON	1	Choose
S-16	Main interface P1 display style	face P1 display Main interface P1 display style style		0:S1:style1 1:S2:style2	1	Choose	
S-18	Pattern number shortcut key selection method	Pattern number shortcut ke selection method	у		0: The position remains the same 1: It will automatically become the first one after selection 2: Arrange by size	0	Choose
S-19	Pattern number shortcut key display mode	Pattern number shortcut key display mode			0:Recent use of patterns	0	Choose
S-20	Pattern number shortcut key display mode	ut Pattern number shortcut key display mode			0~7	0	Input
S-21	Pattern number shortcut key display mode	Pattern number shortcut ke display mode	у		0~2	0	Input
S-22	Main interface P1 function area location	Main interface P1 function area location	1		0:L:Left side 1:R:Right side	1	Choose
S-23	P1 addition and subtraction setting key on the main interface	P1 addition and subtractio setting key on the main interface	n		0: All:Both pattern number and speed key support setting 1:SPD: Speed setting 2:PAT:Pattern number setting	0	Choose
S-24	Key style of main interface	Key style of main interfac	е		0:Dark 1:Light	0	Choose
19、	Editting Settings						
No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
T-1	Operating style	Operating style			0: S1:Style 1 1: S2:Style 2	1	Choose
	Multiple seam down	Multiple seam down			0:0:According to segment		

algorithm

Choose

1

1:1:Only start and end

T-2

algorithm

T-3	Whether the first null is automatically added after the secondary origin	Whether the first null is automatically added after the secondary origin	0:OFF:OFF 1:ON-S:ON(Switch sewing) 2:ON-F:ON(Continue feed)	0	Choose
T-4	Curve corner shortcut	Curve corner shortcut	0:0FF:0FF 1:0N:0N	1	Choose
T-5	Make a version of the air after the return of the sewing style	Set up a version of the return to sewing style after empty send	0:0:Keep shape 1:1:Line	0	Choose
T-6	Stitch reduction after printing	Stitch reduction after printing	0: OFF:No 1: ON:Yes	0	Choose
T-8	Amplification method	Pattern printing version amplification method	0:0:Square 1:1:Length and width	1	Choose
T-9	Whether to show drop point	Whether to show drop point	0:0:No 1:1:Yes	1	Choose
T-10	Choose method of pattern transformation	Multiple seam, offset seam, inverted seam, zigzag seam, fore-and-aft exchange, etc	0:0:Stitch 1:1:Element	0	Choose
T-11	The zoom unit	The zoom unit	0:0:Percent 1:1:Size	0	Choose
T-12	Multiple seam scaling	Multiple seam scaling	0:0:Variable 1:1:Fixed	1	Choose
T-13	Size calculation under the zoom function	Size calculation under the zoom function	0:0:From home 1:1:From start sew point	0	Choose
T-14	Return mode after modification	Return mode after modification (dot and function code)	0:0:Function selection 1:1:Continue to modify	0	Choose
T-15	Multiple seam, offset seam, segment insertion modification	Multiple seam, offset seam, segment insertion modification (conversion affects the position of the following elements)	0:0:Relative 1:1:Absolute	0	Choose
T-16	The center of the graph is set to retain the initial null feed	Center Settings for pattern scaling and rotation	0:0:Reserve 1:1:Remove	1	Choose
T-17	Rotation function next time whether the origin rotation	Rotation function next time whether the origin rotation	0:0:No 1:1:Yes	0	Choose
T-18	Parallel curve algorithm	Parallel curve algorithm	0:Al:Algorithm-1 1:A2:Algorithm-2 2:A3:Algorithm-3	2	Choose

T-19	Form the standard of Angle	Angle standard: no Angle, 180: full Angle	Degree			0~180	90	Input
T-20	Empty feed spacing setting	Empty feed spacing setting	x0.1mm			10~120	120	Input
T-21	Whether to increase the inflection point deceleration after the version	Whether to increase the inflection point deceleration after the version			0	:OFF:No :ON:Yes	0	Choose
T-22	Displays the range of shape points	Displays the range of shape points			0	:OFF:OFF 1:ON:ON	0	Choose
T-23	Make a version of the shape outline display	Make a version of the shape outline display			0	:OFF:OFF 1:ON:ON	1	Choose
T-24	Version following action Settings	Version following action Settings			0:01 1:0	FF:Disable DN:Enable	0	Choose
T-25	Small stitching shape fusion	For straight lines only, shape points within 1mm will fuse the previous element			0	: OFF : OFF 1 : ON : ON	0	Choose
T-26	Automatically enlarge according to the size of the pattern outline	Automatically enlarge according to the size of the pattern outline			0	: OFF : OFF 1 : ON : ON	0	Choose
T-27	Pause code to expand valve function	Pause code to expand valve function			0	:OFF:OFF 1:ON:ON	0	Choose
T-28	Medium presser foot height modification method	Medium presser foot height modification method			0:0: C 1:1: Sele	hoose a shot ect a paragraph	0	Choose
T-29	Segment movement mode	Segment movement mode			0: 1:1	0:Simple : complex	0	Choose
T-30	Point move selection mode	Point move selection mode			0:0: Radi rela modi 1:1:	o (absolute and ative mode fications) alternative	0	Choose
T-31	Point movement and segment movement change trajectories	Point movement and segment movement change trajectories			0: 1	0: close :1:open	1	Choose
T-32	Empty delivery and consolidation after point movement	Empty delivery and consolidation after point movement				0:NO 1:YES	0	Choose
20、	Other							
No.	Brief description	Detailed instruct	ions	Unit	Step length	Range	Factory value	Туре

550	Machine needle cooling device	Need	le cooling with or without			0:OFF:without 1:ON:have	0	Choose
U-1	Language selection		Language selection			0:CH:中文 1:EN:English 2:Bur:Burmese 3:KR: 한국어 4:TK:Turkish 5:JP:日本語 6:VI:Vietnames e 7:ITA:Italianc 8:PT:Portugues e 9:ES:Español	0	Choose
U-2	Voice setting		Voice function setting			0:OFF 1:ON	1	Choose
U-3	Key voice volume		Key voice volume			0~31	25	Input
U-7	The brightness of LED lights	Th	e brightness of LED lights			0~100	50	Input
U-8	Used for automatic feeding machine	Used	for automatic feeding machine			0~10	0	Input
U-9	Whether to automatically close the jump interface	Aft au	er confirming the number of jump pins, whether to tomatically close the jump interface			0:OFF:No 1:ON:Yes	0	Choose
U-10	Boot whether to enter the language selection	Boot	Boot whether to enter the language selection			0:OFF:No 1:ON:Yes	0	Choose
U-12	DXF file conversion method	D	XF file conversion method			0:0:Simple 1:1: complex	0	Choose
U-13	Exporting other formats		Exporting other formats			0:0: close 1:1:open	0	Choose
21、]	Maintenance		Γ				1	ı
No.	Brief description		Detailed instructions		Unit	Step length	Factory value	Туре

Change the needle residual value Change the needle residual value x1000Sth

V-1

0

Input

0~9999

V-2	Change needle settin	g value	Change needle	e sett	ing	g value	x1000Sth		0~9999	0	Input
V-3	Cleaning time residu	al value	Cleaning time	resid	lua	l value	e Hour		0~9999	0	Input
V-4	Set cleaning time	value	Set cleanin	ng tim	еv	value	Hour		0~9999	0	Input
V-5	0il replacement resid	ual value	Oil replacemen	ıt resi	i du	al valı	ie Hour		0~9999	0	Input
V-6	0il change Sett:	ngs	0il chang	ge Set	tir	ıgs	Hour		0~9999	0	Input
V-9	Bottom line counter a stitches lef	umber of	Bottom line co stitch	ounter hes le	nı ft	ımber o	f		0~60000) 0	Input
V-10	The baseline counter a number of stite	larms the nes	The baseline connumber o	ounter of stit	a] tch	larms t es	he		0~60000) 0	Input
V-11	Bottom line counting	method	Segment calcula beginning of Stitch count ca during	tion: a f seam alcula g sewi	ala 1 s tic ng	arm at t ection on: ala	rm		0:0: By segment 1:1: Count of stitche s 1: ON: open	f 1	Choose
V-17	Baseline detection residual length se	esidual length setting residual		tectio ength	ection device ngth setting x0.1M				0~5000	0	Input
V-18	The thickness of the	fabric	The thickness	s of the fabric mm				0~20	0	Input	
V-19	Length of the l	ine	Length o	of the	li	ne	mm		0~50	0	Input
22、	Template Recognitie	on									
No.	Brief description	Detail	ed instructions	Uni	t	Step length	F	lange		Factory value	Туре
W-1	Template identification Settings	n Templat	e identification Settings	n			0:0 1:	OFF:OFF ON:ON		0	Choose
W-2	Template identificatio equipment	n Templat	e identification equipment	n			0:0: 1:1:Bar 2:2:RFID rea	Useless code sca ad-write	s anner e device	0	Choose
₩-3	The marker is offset : the X direction	n The mar the	ker is offset in X direction	n x0. 1	mm		-50	00~5000		0	Input
₩-4	The marker is offset	The max	rker is offset Y	x0.1	mm		-20	00~2000		0	Input
₩-5	The speed of the marke	r The spe	ed of the marker	r				1~9		1	Input
W-7	Read the USB flash dis pattern when the patte number does not exist	k Read th rnpattern number	e USB flash disl when the patter does not exist	k n			C):OFF 1:ON		0	Choose
23	Automatic shuttle c	nange	1						I		
N.	Brief				S	step	D			factory	m

Unit

length

Range

Туре

value

Detailed instructions

No.

description

X-1	Automatic shuttle switch	Automatic shuttle switch	0:OFF: Close 1:ON: open	0	Choose
Х-2	Shuttle change	Shuttle change	0:0:Manual shuttle change after the bottom thread alarm 1:1:Automatically change the shuttle when the bottom thread alarms	1	Choose
Х-3	Start mode after shuttle change	Start mode after shuttle change	0:0:Manual start 1:1:Automatic start	1	Choose
Х-4	Empty bobbin processing method	Empty bobbin processing method	0:0:Put back the shuttle 1:1:Put the storage box	1	Choose
Х-5	Shuttle arm parking position	Shuttle arm parking position	0:0:Bobbin side 1:1:Nose side	1	Choose
Х-6	Fine adjustment of shuttle arm to nose position	Fine adjustment of shuttle arm to nose position	-100~100	0	Input
Х-7	Fine adjustment of shuttle arm to shuttle plate position	Fine adjustment of shuttle arm to shuttle plate position	-100~100	0	Input
Х-8	Origin offset of shuttle motor	Origin offset of shuttle motor	-100~100	0	Input

24 Automatic shuttle change

No.	Brief description	Detailed instructions	Unit	Step length	Range	Factory value	Туре
163	Maximum sewing speed	Maximum sewing speed	x100RPM		2~30	23	Input
Y-2	Letter embroidery function enable	Letter embroidery function enable			0:0FF:Letter sew function off 1:0N:Letter sew function on	1	Choose
Y-3	Needle length deceleration curve	Internal needle length drop curve Choose			0~8	5	Input
Y-4	The maximum length of needle withoutMaintain maximum needle length at maximum speed		x0.1mm		$1^{\sim}127$	30	Input
Y-5	Communication rate	Communication rate increase			0~1	0	Input

2.9 Test Mode



In main interface P1 (or P2), press to activate the catalo`gue mode, and then press Detection to



Functions:

No.	Functions	Content
А	LCD Test	Test LCD displayer
В	Touching Screen Correction	Correct the touching screen
С	Input Signal Test	Test the input signal of switches and sensors
D	Speed Test	Test the speed of main shaft motor
Е	Output Signal Test	Test the output signal of pressers and thread-trimming devices
F	Continuous Running	Set continuous running parameter and enter aging status
G	Automatic shuttle changing	Automatic shuttle changing
Н	XY Motor Origin Test	Test the motor origins of X /Y motors
I	Main Motor Installation Angle	Display and set the installation angle of main shaft motor
1	Adjustment	Display and set the instantition angle of main shart motor
J	Medium pressure Function Test	Used to test intermediate presser
Κ	RFID	For setting RFID
L	Quit	Quit test mode and return to main interface
М	Self-adjusting	For self-adjusting
N	Wireless module 2	For wireless module 2 detection
---	----------------------	---------------------------------
0	Shear line detection	For shear line detection

Function:







2.9.2 Touching Screen Correction



Functions:

Under test mode, press to display the interface for ID input, as shown on the right. Then input

the ID and press to enter touch screen correction function.



User has to correct 5 spots. The touching pen is recommended to be used at touching the cross icon on the interface. After the correction, the system will display the result of this operation

[Note]: During the correction, please perform the operation strictly according to the position of the cross icon, otherwise the touching screen may be unable to be used normally after the correction.

2.9.3 Input Signal Test



Function:

In the test mode, press not to activate the Input Signal Test Function.

- ON: Activation OFF
- : Deactivation Types
- of Input Signal:
- ① Start switch (Pedal)
- 2 Presser switch (Pedal)
- ③ Pause Switch
- (4) Thread-breakage Detection
- (5) X Motor Sensor
- 6 Y Motor Sensor
- ⑦ Intermediate presser origin
- 8 Security switch
- (9) External input 1 (PORG)
- 10 External input 2 (PSENS)
- (1) External input 3 (CORG)
- 12 External input 4 (CSENS)
- (13) External input 5 (AORG)
- 14 Three-in-one Pedal

Press to return to the upper level interface.

8	Inp	ut signal config	uration	2021/05/06(Thu) 13:45
		IN1	No	
		IN2	No	
		IN3	No	
		PH	No	
		SFSW	No	
>	<			2

Click the programmable IO key to enter the interface of input signal configuration.

8	Input c	ustomizing setting		2021/05/06(Thu) 13:47
		Special input function 8		Detailed settting
		Special input function 9		
IN3	→	No		
		Find home	-	
		Start sew		
>	<	No		

Examples:

Click the input 3(N3) key to enter the interface of

customized input signal. You can click		to
select the input signal, as follows:		

- 1) No
- 2) Auxiliary press frame
- 3) Start sew
- 4) Sewing speed plus 5)

Sewing speed reduction 6)

Air pressure detection 7)

Disconnection detection 8)

Special input function 1~9

Click the ok key to confirm and return to the input signal configuration interface, and click the cancel

key to cancel the operation and return to the input signal configuration interface.

Input custom	izing setting 2021/05/06(Thu) 13:48
Logical setting	The turning on and off logic of the input signal is switched
Usual	
Operation selection	As for the alternation operation, the function that the input signal is set by turning on operates even if the input signal is done in off
Usual	afterwards
×	

Detailed settting

T

Click the detailed setting key to enter the interface of self-determined input signal. The following parameters can be set:

1) The turning on and off logic of the input signal is switched:

Usual/Reverse

The default value: Usual

2) As for the alternation operation, the function that the input signal is set by turning on operates even if the input signal is done in off afterwards:

Usual/Alternation

The default value: Usual

2.9.4 Main Shaft Speed Test

Speed detection mode	2021/05/06(Thu) 13:50	Functions:
Target Speed: 200RPM Actual Speed:		In the test mode, press to enter the main shaft speed test function. Use + and to set the aim speed of main shaft motor. Through and , the spindle
	(STOP) (GO)	motor can be set to turn forward or backward. After user
		presses (6), the main shaft motor will rotate at the set
		speed. At this moment, the actual speed will be
		displayed in the input column of actual speed.
		Press to stop running
		Press to return to the upper level interface.
2.9.5 Output Signal Test		

2

Output detection mode		2021/05/06(Thu) 13:51
Wipe	Thread clamp T2	Valve5
Trim	Valve1	Valve6
M-Presser	Valve2	Valve7
M-Presser	Valve3	Valve8
Release	Valve4	
<		Prog. IO

Functions:

In the test mode, press output Signal to activate the output signal test function.

In this interface, user can press output signal button to test the status of output signals of solenoids

- Types of Output signals:
- ① Thread-wiping
- 2 Thread-trimming
- ③ Presser
- (4) Intermediate presser
- (5) Thread-loosing
- 6 Clamp T2
- ⑦ Auxiliary air valve 1~8

Press to return to the upper level interface.

[Note]: The sewing machine will have the actual movement.



Output customizing setting:

Click [programmable IO] key to enter the interface of self-determined output signal

For example:

Click the "valve 1(V1)" key to enter the interface of customized output signal. You can select the output

signal by clicking the button	, as follows:
1) no	18) laser suction
2) auxiliary pressure frame	19) laser lifting
3) turn over the foot	Cut line 20)
4) spindle operation	Loose line 21)
5) finish sewing	22) line
6) error status	23) medium pressure foot
7) find the origin	24) external pressure
8) secondary origin	frame
9) stop in the middle	25) knife before sewing
10) lateral slip press foot	26) blow after sewing
expansion	27) needle cooling
11) sideslip pressure foot	28) disconnected output
lifting	29) emergency stop output
12) line	30)Marker pen
13) functions 1~9	31) Laser Positioning
14) function A/B/C	Light-Left
15)The pressure box falls	32) Laser positioning
back to the origin	light-right
16) back to the origin	33) Auxiliary fixture 1~9
pressure box fell	34) Start automatic shuttle
17) laser	change
	35) Working indicator
	36) Standby indicator
	37)Special presser foot
	function 1~7

Click ok

to determine and return to the

output signal configuration interface, click cancel to cancel the operation and return to the output signal configuration interface.



2.9.6 Continuous Running

🛢 Continuous run mode	202	1/05/06	6(Thu) 14:30
Action Interval: [20] x100ms (0~99)	1	2	3 6
Origin Detetion: 0 (0~2)	7	8	9
Aging mode: 🗹 pedal 📄 origin	0 clr	Î	
×			

Function:

In the test mode, press to enter the continuous running function

Click Action Interval bar or Origin Detection of Needle-withdrawing bar and use number keys to input

the figures. Press to return to the upper level interface.

There are two ways to activate the aging status: pedal or origin; after setting this parameter, return to main interface P1 (or P2). Step pedal or press the Return to Origin key to run the machine, and enter continuous running mode.

2.9.7 XY Motor Origin Test



Functions:

÷ In the test mode, press to activate the XY Motor Origin Detection Function.

In this interface, use direction keys to move XY motor. During this process, the system will display the ON/OFF status of the sensors.

ON: Sensor Detected OFF: Sensor Undetected

to return to the upper level interface. Press

[Note]: The sewing machine will have the actual movement.



2.9.8 Main Motor Installation Angle Adjustment





2.9.9 Intermediate Presser Test

Middle presser foot detection Sensor Origin: OFF Home O High O Middle O Low O Modify + SW

Functions:

Functions:



In the test mode, press **MotorAngle** to enter the main motor installation angle adjustment.

1) Keeping this interface on, dismantle the servo motor from the main shaft, and turn the hand wheel untill needle reaches the highest point. Then reset the servo motor and assure its electrical angle value displayed between 0 to 30 or between 330 to 360. If it is

then click the enter button, otherwise repeat this procedure.

2) Remove the spindle motor from the current interface, rotate the hand wheel to swing the sewing machine needle bar to the parking position, reinstall the spindle motor, confirm that the displayed electrical value is within the range of 23~83 degrees, and then

press the confirmation key , otherwise remove the spindle and repeat the above actions

to enter

intermediate presser test. Intermediate Presser Down Intermediate Presser Up Sw Shift Intermediate Presser Position

In the test mode, press

2.10 Function Setting



In main interface P1 (or P2), press to activate the catalogue mode, and then press to enter the Function Setting Mode.

Function setting interface:



Functions:

No.	Functions	Content		
А	Version Inquiry	Inquire the version of system software		
В	Pattern Connection	Edit combined pattern		
С	Display Setting	Set background light, keyboard lock, lightness and so on		
Л	Function shortout key	Users can edit this shortcut key according to their common functions		
D	Function shoricut key	and display it on the main page for convenient operation.		
		Data Transfer:Transfer pattern file between memory and U disk		
	Pattern management	Formatting:Initialize the U disk, memory and pattern number hotkeys.		
Е		Pattern Transformation in Batch:Change the patterns of non-standard		
		formats into standard formats. Note: standard format means nsp		
		format.		
Б	Paak up Deremeter Pacovary	Save parameter values into U disk for the parameter recovery in		
Г	Back-up Parameter Recovery	future		
G	Default Parameters	Recovery and self-defined read-write function of the default		

No.	Functions	Content
		parameter values
Н	Parameter Encryption	Set passwords for each operation entrance in parameter mode.
Ι	Password Mode	Provide periodical password function
J	Time Setting	Set the date and time
V	Log	Alarm Record: Check the alarm statistic information
К	Log	Running Record: Check running information of machine
L	Software Update	Enter software update mode
М	System parameters	System parameters and TD system parameters can be set
Ν	Shift between Icon and Description	Shift between the icon and description of the hotkeys
0	Quit	Return to main interface
Р	Pattern number list	Pattern number shortcut key editing operation.

2.10.1 Version Inquiry Mode



In function setting interface, press Ver. version inquiry mode.

to output the software version to the Press base catalogue of the U disk with name "version.png".



2.10.2 Pattern Connection Mode

In function setting interface, press to enter Pattern Connection Mode. The pattern connection mode is mainly used to create and edit the combined pattern, which is to perform the combination edition on the basis of the existing patterns. The pattern used in combined pattern is called as sub-pattern.



Function:

No.	Description	
А	Page	
В	Name of Combined Pattern	
С	Load Combined Pattern	
D	Save Combined Pattern	
E	Display Sub-pattern	
F	Quit & Return to Previous Interface	
G	Page Key	
Н	Add Pattern from Memory to Combined Pattern	
Ι	Delete Sub-pattern	
J	Cancel Combined Pattern	
K	Enter	

Operation:



002@DATA 001@DATA NO_DATA NO_DATA 001/001 NO_DATA NO_DATA NO_DATA NO_DATA NO_DATA NO_DATA NO_DATA NO_DATA 153 Х 123

Combination pattern 2021/05/06(Thu) 14:55 Name: 01/05 002 001 • DATA DATA O • • E • • DATA DATA • Image: • • Image:

1 Select a Sub-pattern



Press **V** to confirm it.

[Note]: Patterns should be added to the combined pattern in order.

2. Continue Adding

Repeat the above operation to add more subpatterns (Add patterns No.002)

If user wants to delete one of them, please select

the number of the sub-pattern and then press





3 Save the Combined Pattern



Name the combined pattern and press to confirm it. For other operations within this interface, please refer to [2.6 Save Pattern].





Combination pattern 2021/05/06(Thu) 15:01 Name: NEW 01/05 002 001 • • DATA DATA • • V • • • • Name: NEW • • • • OD2 • 001 • <t

📮 Read	d combination data		2021/05/06(T	'hu) 15:23
	NEW			
×				

4. Return to Main Interface

After finishing edition of the combined pattern,

press 🔽

to return to main interface.

As shown in right figure, there are some differences between the combined pattern sewing interface and the normal pattern sewing interface.

① The name of combined pattern is displayed behind the number and the name of the current subpattern will be displayed at the name area.

[Note]: If the combined pattern has no name, nothing will be displayed.

② The original pattern number hotkeys will display the sub-patterns in this combined pattern. Click the sub-pattern to start the sewing from that sub-pattern.

5 Cancel the Combined Pattern

In order to cancel the combined pattern, user has to

enter the pattern connection mode again, presses

and clicks

6. Load Combined Pattern



CLR

In pattern connection mode, if user presses when the combined pattern exists, the system will display "Clear Current Combined Pattern". Clicking

will clear the current combined pattern.

Press again to enter the interface for loading the combined pattern, where users can select the combined pattern for sewing or editing.

2.10.3 Version Inquiry Mode









1. Backlight Auto Turn-off

By the set time, the screen backlight will be turned off automatically.

Range: $1 \sim 9 \min$

Default Value: Invalid

Releasing Method: if the backlight is off, user can touch any position of the screen to turn it on.

2. Keyboard Lock

When it is set as "Valid", all the buttons will turn to

grey in display and become useless. Pressing will directly return to main interface P1.

Default Value: Invalid

Releasing Method: Hold the title bar at main interface P1 for over 5 seconds, until user hear "Bee-m". After that the lock is released. (After the releasing, this function will be set as Invalid.)

3 Speed style in main window[Section] and [speed]Default Value: [Section]

4. Pattern display setting in main interface

Range : 0~6 (0:Black, 1: Dark Blue, 2: Red, 3: Green, 4: Blue, 5: Purple, 6: Yellow)

Default Value: 0

5. Adjust Led light

The adjustment range is 0~100. Default Value: 50

2.10.4 Hotkey Setting



Hotkey function is used to set the four function keys at the lower right corner according to the user's habits.

Press **to** enter hotkey function setting interface. Setting the common functions of origin, graphic zoom, threading, middle presser foot height, graphic copy, and winding.

Input setting:

Press the shortcut key that needs to be changed to Input, enter the shortcut key setting, select the function

and display $\boxed{\ }$ Input, press the confirm key, save and exit.

2.10.5 Data Transfer Mode



In the function setting interface, press to open the graph management group. The following functions can be set:

1)Pattern transmission 2)Format 3)Batch Convert



2.10.5.1 Data Transfer Mode

In function setting interface, press



to enter data transfer mode, where two ways are provided:



Functions:

No.	Description
А	Pattern List
В	Turn page query
С	Quit and Return to Upper Interface
D	Arrange the patterns according to the pattern number
Е	Delete Pattern
F	Save pattern as
G	Select All Patterns
Н	Load pattern from memory or U disk Image: Activate the U Disk Load Mode: At this moment, user can not load pattern from memory. Image: Activate the Memory Load Mode: At this moment, user cannot load pattern from U disk.
Ι	Enter

Operation:

Usb pattern (U disk current path:/mn	t/hgfs/share/udisk/DH_PAT/) 2021/05/06(Thu) 15:56
212@70 后下 L.NSP	001@DATA.NSP
789@NEW_121313.NSP	002@DATA.NSP
263@75 前 M.NSP	021@DA11494XXX.NSP 001/005
500@NEW	
299@1811-18 前.NSP	006@NEW.NSP
153@NEW.NSP	019@NEW.NSP
	🔛 🕒 📲 🔽

1. Copy Mode Selection

The default setting is to copy pattern from memory

to U disk, user can press to change the copy mode.

2, File Selection

Select the pattern for copy from the pattern list

(here, we select No.001 and No.002). If the patterns are

ALL

so many, please use to turn the page.

For copying all the patterns, please press

and please press **to** delete patterns.

3、Confirm the Copy

After selection, please press and then the system will display "Copy the Selected Pattern", where

user can press to perform the operation. If the pattern is copied from memory to U disk, the system will automatically create a catalogue naming "dh_pat" at the base catalogue of U disk and save the pattern under that catalogue.

[Note]: During the copy process, if the memory contains the pattern with the number same to that of the pattern in the U disk, the new pattern will replace the old one.

2.10.5.2 Formatting Mode



In function setting interface, press activate formatting mode

There are four formatting methods in this interface: USB formatting, Memory formatting, Self-defined formatting and Pattern number hotkey formatting

1、**USB** Formatting:

Press "USB" to delete all the patterns in the U disk. So user need back up the data if necessary.

2. Memory Formatting:

Press "Memory" to delete all the patterns in the memory.

[Note]: After the memory formatting, pressing will have system display "Pattern Not Found in

Memory". Pressing will automatically load the default patterns. **3** Self-defined Formatting:

🛢 🛛 Delete m	nemory pattern	2021/05/06(Thu) 16:00
		001/00
	001@DATA.NSP	021@DA11494XXX.NSP
	002@DATA.NSP	153@NEW.NSP
All	003@DATA.NSP	212@70 后下 L.NSP
	006@NEW.NSP	263@75 前 M.NSP
	019@NEW.NSP	299@1811-18 前.NSP
X		

Press "Self-defined" to enter the interface for Self-defined formatting

In that interface, user can delete all patterns or selected patterns.

[Note]: The pattern being sewn can not be deleted.

4. Hotkey Formatting:

Pressing "Hotkey" to delete the content of the hotkeys of pattern number.

[Note]: After the hotkey formatting, pressing

will have system display "Pattern List (Hotkey) Is

Empty". Pressing

will automatically load the current pattern number to the hotkey.

2.10.5.3 Pattern Transformation in Batch



2.10.6 Back-up Recovery Mode

Recovery/Backup parameter
 2021/05/06(Thu) 16:03
 Maintenance
 Counter
 Zero position angle of main motor
 XY origin offset
 Change language

This batch transformation function can enable the continual availability of the patterns after software update.

The default pattern number after transformation can be allocated manually.

The default setting is to select all patterns, and pattern names marked with x are selected.

The original patterns will be deleted. If you want to keep them, please select Keep Original Patterns at the bottom.



User can save the value of changed parameter into the U disk for the parameter recovery in future.

For details, please refer to [2.8.4 Recovery and Back-up of Parameter]

📮 Default parameter		2021/05/06(Thu) 16	:04
T1310	T3020	NO_PARAM	
T2210	NO_PARAM	NO_PARAM	ne
T2210F1	NO_PARAM	NO_PARAM	
T2210F2	NO_PARAM	NO_PARAM	ar
T2210F3	NO_PARAM	NO_PARAM	
× #	Default	User	

2.10.7 Default Parameter Mode

In function setting interface, press **Default Para** to input the password (the original password is the manufacturer ID). After the input of password, the system will enter Default Parameter Mode.

It is used to recover the default parameters and to save the parameter values for future.

Please refer to [2.8.5 Default Parameter Recovery] for details



2.10.8 Encrypt



Press the parameter encryption key in the function setting interface to enter the parameter encryption mode, which is mainly used to encrypt and manage the specified parameters.

Please refer to [2.8.3 Parameter Encryption] for details.



2.10.9 Password Mode







In function setting interface, press to activate the interface for inputting the user ID. Input the correct manufacturer ID to enter the password management mode, where user can set and manage the periodical password.

2 At most 10 different password action times

can be set.

2 System can display the password information of the manufacturer.

1. Input Board Number

inputting the board number, user can press to finish the operation and return to the previous interface. (Here, we input 0001 as the board number).

2. Confirm the System Clock

Press "Clock" to enter the interface for setting system time and date. For changing the system clock,

user need press in after the modification (Refer to

[2.10.14 Date and Time Setting Mode], or press





to save it and quit.

, the system

operation. At this moment, the system will turn to

password input interface

				May	2021			
	-	Sup	Mon	Tuo	Wod	Thu	Eri	Cat
	17	25	26	27	28	29	30	1
	18	20	3	4	5	6	7	8
	19	9	10	11	12	13	14	15
	20	16	17	18	10	20	21	22
	20	22	24	25	26	20	21	24
	21	30	24	1	20	2	20	5
Step	password	1	Key:	b	374dac2		2	021/05/0
Passv	word setti	ng mode	Reset	Ba	ack.	Manua		
actory	A			Pw-1	2021-05-07			
				-				
No.	00	·		Pw-2				
Clock	2021-05-0	6 16:46						
5-Pw								
Selec	t passwor	d action o	late					
S-Pw	t passwor	d action o	late	May	2021			
S-Pw	t passwor	d action o	late	May	2021 Wood	There	Eri	÷
-Pw	t passwor	d action o	date Mon	May	2021 Wed	Thu	Fri	• Sat
-Pw Selec	t passwor e	d action of Sun 25	date Mon 26	May Tue 27	2021 Wed 28	Thu 29	Fri 30	• Sat
S-Pw	e 17 18	d action of Sun 25 2	date Mon 26 3	May Tue 27 4	2021 Wed 28 5	Thu 29 6	Fri 30 7	4 Sat 1 8

 The input method of the periodical password is the same as that of the super password. After the

confirmation, press **V** to quit.

5. Continue Inputting Periodical Password

If user need input the next activation date and password, he should repeat the above operation. At most, ten dates and passwords can be inputted.

[Note]: The next date shall be later than the previous

one.











password				
٨	Pw-1	2021-05-07]	
001	Pw-2	2021-05-08		
2021-05-06 17:00				
	Ехро	ort Stat.		
	A 001 2021-05-06 17:00	A Pw-1 001 Pw-2 2021-05-06 17:00	A Pw-1 2021-05-07 001 Pw-2 2021-05-06 2021-05-06 17:00 Export Stat.	A Pvi-1 2021-05-07 001 Pvi-2 2021-05-08 2021-05-06 17:00 Export Stat.

8. Clear Password before Activation

Clearing password is to delete the password before it activates.

The method for entering the password display interface is the same as that of password setting

After user input the right manufacturer ID, the system will display the current time and activation dates of periodical passwords, as shown in right figure

Press to input the current password. The password is cleared in order of from front to behind.

At this moment, user can input two passwords. If the inputted password is the current password, the current password will be deleted. If the super password is inputted, the entire password will be deleted. If the current password is deleted and the current password is the last password, the system will have no password any

more. Press **V** to finish the operation.

The deleted password will display in red color as shown in the right picture. If the entire password is deleted, the system will return to the upper level interface.

📮 Relea	se pas	swor	d										2021	/05/	07(Fri)	14:06
Board	No.			P	w1		T									
1	2		3	4			(5		7		8		9	C	
Q	٧	۷			२	F		(l	J	E		C		Р	
	A	5	5)			5	F	ł	J		ŀ	(
		Z	z	<			/	E	3	Ν	J	Ν	1			
*						9		2			_					/

9. Clear Password at Activation

If the system has the password and that password is not canceled, the password will activate at the set date. At this moment, user has to input the effective password to have the machine continue to work normally.

The effective passwords include the current password and the super password. If the inputted password is the current password, the current password will be deleted. If the super password is inputted, the entire password will be deleted. If the password is current password and the current password is the last password, the system will have no password any more. If the machine still have other password other than the current password, the next password will activate according to the set date

2.10.10 Date and Time Setting





11. Method for Setting Date

Click "Year" (Here, it is 2011) to display two arrows to adjust it

In function setting interface, press

Click "Month" (Here, it is June) to display the list of months. User can select the proper month.

After the setting, the display of year and month will be refreshed to the right ones.



content in calendar.

Click the day to complete the setting.

[Note]: User has to set year, month and date to finish the setting. Only setting the year and month will not complete this operation.





•			May	2021			9
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
17	25	26	27	28	29		1
18	2	3	4	5	6	7	8
19	9	10	11	12	13	14	15
20	16	17	18	19	20	21	22
21	23	24	25	26	27	28	29
22	30	31	া	2	3	4	



12. Method for Setting Time

In default, user has to set hour first. Press "hour" to shift the setting to minute (Pressing "hour" is to change it to "minute") and then press the arrows to change the time.

User can also click the display area to shift between hour and minute.

After the setting of date and time, please press

to save it.

13 Forbid to Change System Time

Once the machine is set with the periodical passwords, the system will deny the change on the system time. After all the passwords are cleared, the system will unlock the setting of the system time.

2.10.11 Alarm Record Mode



In the function setting interface, press the record to open the record group. The following key records can be viewed: 1) Error Note

2)Run Note

2.10.11.1 Error Note



In function setting interface, press then system will ask for the manufacturer ID. After user gives the right ID, the system will enter the alarm record mode

In this mode, the current alarm will be recorded. The smaller number means the later alarm.

Click each number, and the information of and solution for the error will be displayed.

Press the "data statistics view" key **I** to enter the alarm record statistics interface.



2.10.11.2 Run Note

8	Run note mode		2021/05/07(Fri) 08:3
	Totla Run Time:	0.0h	Clear
	Total Sewing Products:	0	Clear
	Total PowerOn Time:	0.0h	Clear
	Total Sewing Stitches:	Ok	Clear
	On Time Clear his	story	

In function setting interface, press **Example**, then system will ask for the manufacturer ID. After user gives the right ID, the system will Enter the running record mode.

① Accumulated Running Time: Record total sewing time of machine.

② Accumulated Sewing Pieces: Record the total number of the sewn patterns.

3 Accumulated Power-on Time: Record the total time of power-on

④ Accumulated Stitch Number: Record the total stitch number of the machine.

Additionally, click "Clear" to clear the counting value.

[Note]: If the Accumulated Sewing Pieces is cleared, the system will also clear the Accumulated Counter in the assistant information bar at main interface.



Press [on time] On Time on the operation record mode interface to view the power on/off time notes..



2.10.12 Update Mode



In function setting interface, press . The system will ask for the manufacturer ID. Input the correct ID to enter the software update mode.

The updating software shall be located in the catalogue "Update" in the U disk.

First click the [select directory] key to select the directory where you want to upgrade the software.

Then select and click the ok key to return to the software upgrade interface and display all the upgradable software information in the directory.

Click the details key details of the software to be upgraded.

to select the

Click the "confirm" key to return to the



again to upgrade the corresponding software.

				Version
Click	the	[version]	key	

current software version of the panel.

to query the

6T41X-KD-A-v3.0.457(20210204)-P Panel Version: П. Main-Control Vers Main-Motor Versic 6T41X-MM-A-Step-Motor-1 Vers 6T41X-MD1-A-Step-Motor-2 Vers 6T41X-MD2-A-Fs Version: 6T41X-FS-A-v Os Version: 6T41X-OS-A-v-L X

2.10.13 System Para



In the system parameter setting interface, click the

1 [parameter setting] key to enter the system parameter setting interface and perform related operations.

In the system parameter setting interface, click the

🛧 👆 [TD parameter] key to enter the TD parameter TD-Para. setting interface and perform relevant operations.



Press the system parameter key

in the



In the system parameter setting interface, click the

[TD parameter] key update to enter the parameter update setting interface and perform relevant operations.

2.11 Letter Sewing Edition





activate the catalogue mode, and then press enter letter sewing edition mode.

[Note]: Parameter [Special] -> [Letter Sewing Function Enable] can be used to close the function of letter sewing edition. After that, this icon will not be displayed

2.11.1 Parameters of Letter Sewing



Functions:

No.	Functions	Content
А	Figure Input	Input figures. At most, 20 figures can be inputted
В	Font Selection	28 fonts are available.
С	Array Method	User can select "Horizontal", "Vertical", "Upper Arc" "Down Arc"
D	Letter Pitch	Set the interval between letters
Е	Density of Satin	Set the satin density. The larger value means the denser satin stitches
F	Scaling in Height	Scale the height of letter, range: 50~200.
G	Scaling in Width	Scale the width of letter, range: 50~200.
		When the array method is linear (vertical or horizontal), the content on the button will
и	Rotation/Follow	be displayed as "Rotation", which is to set the rotation angle of letter;
п	(Not Follow)	When the array method is arc (Upper Arc or Down Arc), this button will display
		"Follow" or "Not Follow", which is to set whether the letter rotates with the arc.
Ι	Trim/Not Trim	Set whether to automatically insert thread-trimming code
J	Return	Quit and return to main interface
Κ	Enter	Confirm operations. And then enter pattern adjustment interface.
Instructions for







E Letter spacing	20	21/05/07(Fri) 09:2:		
Set the letter spacing					
0.0 Range: 0.0 ~ 99.9	1	2	3		
Horizontal straight line, the spacing of the horizontal distance between letters.	5	6			
letters. Circular arrangement, the spacing between letters arc distance.	7	8	9		
	0	I ↑	\downarrow		
cir					
×			\checkmark		

1. Figure input

Press "Input" to enter figure input interface, where user have to input at least one figure. 20 figures can be

inputted at most. Press to save the input and quit.

2、Font Selection

Press "Font" to enter font selection interface, where 28 types of fonts are provided. Input the numbers

from 1 to 28 to select the font. Press to save it and quit.

In this interface, the font will be displayed to users.

3、Array Method

Press "Arrange" to enter the interface for setting array method, where user can select horizontal linear,

vertical linear, upper arc and down arc. Press to save it and quit.

4、 Figure Pitch

Press "Pitch" to enter the letter pitch setting interface.

In horizontal array, it is to set the horizontal pitch between letters.

In vertical array, it is to set the vertical pitch between letters.

In arc array, it is to set the distance between the letters on arc.

Range: 0~99.9mm.





5 Density of Satin

Press "Density" to enter the interface for setting satin density. The range is among 50~200.

6 Scaling in Height

Press "Height" to enter the interface for setting letter height, where user can scale the height of letter. Range: 50~200.

📮 Letter width		2021	/05/07(1	Fri) 09:31
Set the letter wid	th			
L	100 Range: 50 ~ 500	1	2	3
Letters in the font the zoom.	Range: 50 ~ 500 Letters in the font width on the basis of the original size to adjust the zoom.			
	7	8	9	
		0	Î	\downarrow
		clr		
X				\checkmark

Arrangement expasior)	2021	/05/07(F	ri) 09:3	3
Set the rotation angle					
Ra	0 nge: 0 ~ 359	1	2	3	
When the arrangement of letters for the straight line,angle can be adjusted by rotating alphabetical.			5	6	
			8	9	
		0	Î	\downarrow	
		clr			
X				\checkmark	

7, Scaling in Width

Press "Width" to enter the interface for setting letter width, where user can scale the width of letter. Range: 50~200.

8、 Rotation Angle Setting

When the array method is set at "Horizontal" or "Vertical", user can set the rotation angle of the letter. Press the "Rotation" to enter the interface for setting rotation angle.

The rotating direction is counter-clockwise. Range: 0° ~359°.

[Note]: When the array method is arc (Upper Arc or Down Arc), this button is to set whether the letter rotates with the arc.

When the array method is arc (Upper Arc or Down Arc), user can set whether the letter rotates with the arc. Press "Follow" to shift it to "Not Follow", vice versa. [Note]: when the array method is "Horizontal" or "Vertical", this button is to set the rotating angle.



Next

Prev

L-Lean

R-Lean

L-Rota.

R-Rota.

9、 Trim/No Trim

In default setting, the system will add autotrimming, which is to add trimming code at the end of sewing, joint of empty feeding (or sewing).

Press "Trim" to change the content on button and cancel the function for automatically adding trimming functions.

10 Confirm the Pattern

Set the letter sewing pattern for generation. Press

to enter the interface for adjusting the letter sewing pattern.

2.11.2 Adjustment of Letter Sewing Pattern

In the interface for setting parameters of the letter sewing, user can press to enter the interface for adjusting the letter sewing pattern. In this interface, user can have the further adjustment on the pattern.



Functions:

No.	Functions	Content
	Change the font of selected letter. The setting method is the same as that in	
A	Font Selection	Parameter Setting.
л	Carla in Haisht	Scale the height of the selected letter. The setting method is the same as that in
В	Scale in Height	Parameter Setting.
C	Coole in Width	Scale the width of the selected letter. The setting method is the same as that in
C	Scale in width	Parameter Setting.
D	X Position	Display the X coordinate of center point of the selected letter
Е	Y Position	Display the Y coordinate of center point of the selected letter
F	X Size	Display the width of the selected letter
G	Y Size	Display the height of the selected letter
тт	Dottom Diamlary	Display the current pattern for letter sewing. The selected letters are displayed in
п	Pattern Display	red; the unselected letter is displayed in green.
Ι	Direction Key	Adjust the position of the selected letter.
J	Esc	Return to the previous interface
	Dravious Lattor	Select the letter for adjustment from right to left. The selected figure is displayed in
K	(from right to left)	red. When the icon still goes to left at selecting the last letter, the entire letters will
	(from right to left)	be selected.
L	Next Letter (from	Select the letter for adjustment from left to right. The selected figure is displayed in

No.	Functions	Content
	left to right)	red. When the icon still goes to right at selecting the last letter, the entire letters will
		be selected.
		When the array method is horizontal array or the vertical array, this button will
		display "Left Tilt". Pressing this button will rotate the entire pattern
м	Left Tilt/Radian	counterclockwise in the center of origin
M	Down	When the array method is arc, this button will display "Radian Down". Pressing this
		button will reduce the radian of entire pattern.
		[Note] This operation is for the entire pattern.
		When the array method is horizontal array or the vertical array, this button will
		display "Right Tilt". Pressing this button will rotate the entire pattern clockwise in
N	Right Tilt/Radian	the center of origin
IN	Up	When the array method is arc, this button will display "Radian Up". Pressing this
		button will increase the radian of entire pattern.
		[Note] This operation is for the entire pattern.
0	Laft Datation	Adjust the rotating angle of the selected letter counterclockwise. The rotation center
0	Left Rotation	is the center of the letter
D	Disht Datation	Adjust the rotating angle of the selected letter clockwise. The rotation center is the
Р	Right Rotation	center of the letter
Q	Enter	Press it to Enter the pattern save interface

Example:





1. Select Single Letter for Adjustment

Press "Previous Letter" or "Next Letter" to select the single letter for adjustment. The selected letter is displayed in red, while the unselected are displayed in green

2. Letter Position Adjustment

Press direction keys to adjust the position of the selected letter. User can see the coordinates from "X Position" and "Y Position"

With the same operations, user can adjust the position of other letters.





🛢 Patteri	n save m	node						20	21/05/0	7(Fri) 10:21
	Name No.:	e: NEW								%
		<	<						>>	Clear
1	2	3	4	5	e	5	7	8	9	0
	q	w	e	r t	у	u	i	0	р	
#	а	s	d	f	g	h	j	k		%
Caps	En	z	х	С	V	b	n	m	Backs	space
								₹		\checkmark

3 Adjust the Rotating Angle of Entire Pattern

Press "Left Tilt" or "Right Tilt" to adjust the rotating angle of the entire pattern "Left Tilt": Counter-clockwise Rotation "Right Tilt": Clockwise Rotation [Note]: When the array method is arc, these buttons

will turn to "Radian Up"/ "Radian Down", which are to adjust the radian of the entire pattern

4. Rotation of Single Letter

Select a letter and then press "Left Rotation" or "Right Rotation" to adjust the rotating angle of the selected letter

[Note] When adjusting the rotating angle, user had better adjust the rotating angle of the entire pattern at first. If user adjust the rotating angle of the single letter at first, the adjustment will be canceled when user rotates the entire pattern.

5 Save Pattern

After the adjustment, press to enter interface for saving patterns.

Input name and number, and then press . The system will display "Letter Sewing Pattern Saved Successfully". (For other operations, please refer to [2.6 Save Pattern].)

[Note] After the successful saving, the letter sewing pattern will not turn to current pattern automatically. User has to enter the pattern loading interface to select it.

3 Appendix 1

3.1 Warning Information List

Number	Name of Malfunction	Solution
E-001	Pedal not at centre position	Please adjust pedal position
		Check the condition of emergency switch. Turn and release the emergency
		button. If the screen keep displaying this hint, please check in the following
		way:
E-002	Machine is in emergency stop	1. Check whether the emergency stop switch is pressed
		2. Check whether the emergency stop switch cable is in good contact;
		$3\sqrt{10}$ If there is no problem with the switch cable, please replace the electric
		control;
		1Turn off the power and check whether the nose is overturned
E 002	The nose tip over	2Check whether the switch position of the machine head is normal and
E-003	The nose up over	whether the cable is in good contact;
		3Turn off the nose tip switch parameters or replace the electric control
		Please turn off power and check system hardware
		1. Check if the AC power supply has abnormal fluctuation; Make sure there is
E 004	Turnet and 14 and 16 to a 1 and	no high-power device that is turned on/off frequently; equip the voltage
E-004	input voltage is too low	regulator.
		2_{1} If the AC power supply is normal, the problem may be at the hardware.
		Please return the main control board for repair.
		1. Check if the AC power supply has abnormal fluctuation; Make sure there is
		no high-power device that is turned on/off frequently; equip the voltage
E-005	AC mains are too high	regulator.
		2、 If the AC power supply is normal, the problem may be at the hardware.
		Please return the main control board for repair.
		Please turn off power and check system hardware
	IPM is over voltage or over	1. Make sure no short circuit at main motor; check if the value of each
E-007	current	winding is equal and not 0;
	current	2. Check whether the output at U\V\W is shorted out to earth or the 300V
		power supply, so as to judge the condition of IPM.
		1. Power off and unplug the external solenoid valve cable.
		2. If no more error is reported, please check whether the external solenoid
E-008	Solenoid valve failure	valve is short circuit.
		3. Error still reported after troubleshooting the external fault, please replace the
		electric control.
		Please turn off power and check system hardware.
E 000	Auviliary power is too low	1. Check if the peripheral solenoids and valves are damaged;
E-009	Auxiliary power is too low	2. Check whether there is a short circuit in the inner core of the plug at both
		ends of the connecting wire between the electric control box and the nose

		board;
		3. Check whether the nose transfer plate is short circuit with the nose during
		installation.
		1. Turn off the power and unplug the external electromagnet.
		2. If no more errors are reported, please check whether the external
E-010	Fan or electromagnet failure	electromagnet is damaged.
		3. Error still reported after troubleshooting the external fault, please replace the
		electric control.
		If closed loop motor, please check:
E-011	Stepper motor over speed	1. Check whether the motor encoder is damaged;
		2. Check whether the encoder cable is damaged.
		If closed loop motor, please check:
E-012	Stepper motor out of tolerance	1. Check whether the motor encoder is damaged;
		2、Check whether the encoder cable is damaged.
	Spindle encoder is	Turn off the power and check whether the spindle encoder is connected
E-013	malfunctioning or not	properly.
	connected	F - F J -
		1. Turn off the power to check whether the machine is stuck, to ensure that the
E-014	Spindle motor runs abnormally	machine can run smoothly without dead spots.
LOIT	Spinele motor runs aonormany	2. Replace spindle motor.
		3. Replace the electric control box.
E-015	Exceeds sewing area	Check if the pattern is out of the range of the panel Settings
E-016	Please turn the code plate	Turn the hand wheel to lift the needle bar to the upper position of the upper
E-010	position of spindle motor	dead point, and then step the pedal.
		1. Check whether the position of broken wire detection equipment is correct;
	Disconnection detection	2.Check whether the cable is normally connected;
E-017		3. Appropriately increase the number of broken wire detection needles;
	anomary	4. If still not solved, you can choose to turn off the broken line detection
		function or replace the electric control;
E-018	Trimmer position abnormal	Please turn off power.
		1. Check whether the emergency stop switch is pressed;
		2. Check whether the emergency stop switch cable is in good contact;
E 010	Emergency switch is not at the	3.If there is no problem with the switch cable, please replace the electric
E-019	right position	control.
		Note: If the emergency stop switch is pressed and returns to normal, please
		change the type of emergency stop switch.
E-020	Error reading E2PROM	
E-021	Error writing E2PROM	
TI GGG	Abnormal position of grabber	Please turn off the power.
E-023	line	
E 024	Wrong connection between	
E-024	operation head and sewing	riease turn off power.

	machine	
		 Turn off the power. First of all, make sure that the machine can move normally without sticking points, X sensor and baffle can work normally, and the cable connection between X motor and sensor is intact. Switch on the machine and enter the signal detection interface to detect X Sensor. If the signal does not jump, replace the sensor and electric control in turn for testing. If the signal can jump normally, enter the XY detection interface to detect the action of X motor;
E-025	X origin detection abnormal	4If X motor can work normally but the steering direction is opposite, please change the steering parameters of X motor;5If the X motor cannot work normally, replace the X motor and electric control box in turn for testing.
E-026	Y origin detection abnormal	 Turn off the power. First of all, make sure that the machine can move normally without sticking points, Y inductor and baffle can work normally, and Y motor and inductor cable are well connected; Switch on the machine and enter the signal detection interface to detect Y sensor. If the signal does not jump, replace the sensor and electric control in turn for testing. If the signal can jump normally, enter the XY detection interface to detect the action of Y motor; If the Y motor can work normally but the steering direction is opposite, please change the steering parameters of Y motor; If Y motor cannot work normally, replace Y motor and electric control box in turn for testing;
E-027	Presser origin detection abnormal	Please turn off power.
E-028	Thread-catching origin detection abnormal	Please turn off power.
E-029	Intermediate presser origin detection abnormal	 First of all, make sure that the machine can move normally without sticking points, the sensor and the baffle of the middle pressor foot can work normally, and the motor of the middle pressor foot and the sensor cable are intact. Start the machine and enter the signal detection interface to detect the sensor of medium pressure foot. If the signal does not jump, replace the sensor and electric control in turn for testing; If the signal can jump normally, enter the middle presser foot detection interface to detect the motor action of the middle presser foot; If the motor of the middle presser foot can work normally but the steering direction is opposite, please change the steering parameters of the motor of the middle presser foot; If the motor of medium pressor foot cannot work normally, replace the motor of medium pressor foot and electric control box in turn for testing;
E-030	Master and step communication	1.Please check whether the program version is correct;

	error	2. Re-upgrade the master control and step procedure to check whether it is
		normal;
		3. Replace the electric control;
		Please turn off power
E-031	Stepping motor over-current	The stepping motor is broken; user needs to replace the stepping motor
		2. The stepping drive board is broken; user needs to replace the stepping drive
		board
E-032	Stepping driver power abnormal	Please turn off power.
E-034	Spindle drive short circuit	1. Turn off the power and check whether the spindle motor is damaged;
1 051	Spinale arre short encar	2. If the motor is not damaged, replace the electric control box;
		1. Turn off the power, check whether the machine is stuck, to ensure that the
E 035	Spindle drive over	machine can run smoothly without dead point.
E-035	current 1	2. Replace the spindle motor;
		3. Replace the electric control box.
		1. Turn off the power, check whether the machine is stuck, to ensure that the
E 026	Spindle drive over	machine can run smoothly without dead point;
E-030	current 2	2. Replace the spindle motor;
		3. Replace the electric control box;
		Please turn off power.
		1. Due to the wrong location of the main shaft angle, the trimmer is jammed on the needle when cutting the thread, thus causes the main shaft to be blocked. Solution: Relocate the main shaft angle
		2. The needle rod is jammed on the intermediate presser at moving, which causes the blockage of the main shaft. Solution: check the action of the intermediate presser and the connection between the air valve and the solenoid valve.
E-037	Motor is blocked 1	3、The trimmer can't cut the thread due to lacking of strength, which causes
		the blockage of the main shaft. Solution: adjust the main shaft parameter and
		increase the strength of trimming.
		4. The mechanism has dead point, so the main shaft is blocked. Solution: adjust the mechanism;
		5_{3} The encoder at the main shaft motor has problem, which responses the
		wrong signal, thus causes the blockage of the motor. Solution: replace the
		main shaft motor
		Please turn off power.
		1. The used fabric is too thick to be penetrated by the needle. Solution: adjust
		the main shaft parameters or change to a motor with larger power capacity;
		2. The needle rod is jammed on the intermediate presser at moving, which
		causes the blockage of the main shaft. Solution: check the action of the
E 029	Motor is blocked 2	intermediate presser and the connection between the air valve and the solenoid
E-039	wow is blocked 2	valve
		3、The mechanism has dead point, so the main shaft is blocked. Solution:
		adjust the mechanism
		4、 The encoder at the main shaft motor has problem, which responses the
		wrong signal, thus causes the blockage of the motor. Solution: replace the
		main shaft motor

T 020		Please turn off power.
E-039	Motor over speed	Spindle motor encoder has a problem, the signal feedback is wrong.
·		Please turn off power.
E-040	Over current in stop status	Spindle motor encoder has a problem, the signal feedback is wrong.
E-041	Motor overload	Please turn off power.
E-042	Bus voltage abnormal	Please turn off power.
E-043	X stepping motor position error	Please turn off power.
E-044	Y stepping motor position error	Please turn off power.
E-045	Presser not down	Step the pedal
E-046	Not at origin cannot operate	Press key to return to origin
E-047	Spindle motor runs abnormally	 Turn off the power, check whether the machine is stuck, to ensure that the machine can run smoothly without dead point. Replace the spindle motor; Replace the electric control box.
	Abnormal origin position of	
E-048	middle presser foot	Please turn off power.
E-050	X motor over current	 Turn off the power and check whether the connector of X motor is firmly connected and whether the cable is intact and without damage; Replace X motor; Replace the electric control.
E-051	Y motor over current	 Turn off the power and check whether the connector of Y motor is firmly connected and whether the cable is intact and without damage; Replace Y motor; Replace the electric control.
E-052	X Large current of motor	X Large current of motor
E-053	Y Large current of motor	Y Large current of motor
E-054	X Motor is running abnormally	 Turn off the power and make sure that no sticking point can be moved normally in the X direction of the machine. Ensure that the cable connection of X motor is correct and firm without damage; Replace X motor; Replace the electric control.
E-055	Y Motor is running abnormally	 Turn off the power and make sure that no sticking point can be moved normally in the Y direction of the machine. Ensure that the cable connection of Y motor is correct and firm without damage; Replace Y motor; Replace the electric control.
E-056	X Motor stall	X Motor stall
E-057	Y Motor stall	Y Motor stall
E-058	Curve calculation error	Curve calculation error
E-059	Master and step communication	1. Verify that the software version is correct

	error 1	2. Re-import system parameters
		3. Replace the electric control.
	Master and step communication	1.Initialization parameter
E-060	error 2	2. Replace the electric control.
E-061	Servo communication error 3	Servo communication error 3
E-062	X Motor is locked	X Motor is locked
E-063	Y Motor is locked	Y Motor is locked
E-064	X Motor instruction coverage	Please turn off power.
E-065	Y Motor instruction coverage	Please turn off power.
E-066	Coverage of X motor fast walking instruction	Please turn off power.
E-067	Coverage of Y motor fast walking instruction	Please turn off power.
E-068	Abnormal calculation of servo moving frame curve	Please turn off power.
E-069	Supply voltage is too high	Please turn off power.
E-070	Front and rear motion sensor failure	Please turn off power.
E-071	Left sensor failure	Please turn off power.
E-072	Right sensor failure	Please turn off power.
E-073	Left and right sensor failure	Please turn off power.
E-074	X Motor over speed	Please turn off power.
E-075	Y motor over speed	Please turn off power.
E-076	X motor current reference value is abnormal	Please turn off power.
E-077	Y motor current reference value is abnormal	Please turn off power.
E-078	The XY motor current reference value is abnormal	Please turn off power.
E-079	Communication of servo motor is abnormal	Please turn off power.
E-080	Bottom line cylinder action is not in place	Please try again.
E-081	The bottom line is insufficient	Press the confirm button to restore after replacing the bottom line
E-082	Oil shortage	
E-083	Variant data error 1	
E-084	Variant data error 2	
F-085	The origin of the wire cutting	
L-00J	motor was not found	
E-086	Write drive program failed	Please restart the system and upgrade again.
E-087	Mechanical limit	
E-088	Abnormal detection of bobbin bobbin	1.Please check whether the shuttle tray is empty. If so, press confirm after replacing the shuttle tray.

		2. If there is a bobbin on the bobbin, please turn it off and restart it and check whether the bobbin sensor is normal.
E-089	The automatic shuttle changer is abnormal	
E-090	Automatic shuttle change in progress	
E-091	Unrecognized template	Please replace the template
E-092	Parameter mismatch of master stepping curve	Please update the curve parameters
E-093	Medium presser foot motor over current	 Turn off the power and check whether the motor connector of the middle presser foot is firmly connected and whether the cable is intact and without damage Replace motor of medium presser foot Replace the electric control
E-094	Over current of wire cutting motor	Please turn off the power.
E-095	Abnormal operation of medium presser foot motor	 Turn off the power and confirm that the mechanical parts of the middle presser foot can move smoothly without sticking points; Ensure that the motor cable of the middle presser foot is connected correctly and firmly without damage; Replace motor of medium presser foot
E 006		4. Replace the electric control
E-096	Abnormal wire cutting motor	Please turn off power.
E-097	abnormal	connected
E-098	Main power protection	Please turn off power.
E-099	Control box does not match operation head type	Please replace the panel.
E-100	Solenoid valve failure	Please turn off power.
E-101	The air valve action timed out	Please check the air valve
E-102	Air pressure is insufficient	Please check the air valve
E-103	Abnormal communication between master and DSP1	
E-104	Abnormal communication between master and DSP2	
E-105	Abnormal communication between master and DSP3	
E-106	Abnormal communication between master and DSP4	
E-107	Over current or blocking of the upper spindle motor	

E 109	The motor of the lower spindle	
E-108	is over current or blocked	
E-109	Low oil rate alarm	The oil quantity of the mechanical oil storage pot is too low, please replenish
E 110		
E-110	Warning against danger	Rotating head rotating area is close to someone or its object, please stay away!
E-111	The bottom line is insufficient	Press the OK button to cancel the alarm.
E 112	Loss of needle or out of position during sewing	 Please shut down and check whether the signal connection plug of the spindle encoder is correct and reliable, and whether the connecting wire is damaged. Please check whether the moving frame Angle fine-tuning and moving
		frame time fine-tuning are the default values in transfer mode.4. Please check whether there is any unrecognized function code information and whether there is continuous repetition in the patternFunction code
E-113	The upper rotation axis looks for the origin anomaly (beyond the limited number of steps)	 Please turn it off and check whether the connecting plug of the sensor at the origin of the upper rotation shaft is correct and firm, and whether the connecting wire is damaged. Please check whether the origin sensor of the upper rotation axis is damaged.
		3. Please check whether the related machinery of the upper rotation shaft is
E-114	The lower rotation axis looks for the origin anomaly (beyond the limited number of steps)	 Please turn it off and check whether the connecting plug of the sensor at the origin of the rotation axis is correct and firm, and whether the connecting wire is damaged. Please check whether the origin sensor of the rotation axis is damaged. Please check whether the related machinery of the rotating shaft is loose, whether the rotation is smooth, and whether there is blocking rotation.
E-115	Upper spindle servo drive failure	 Please check the alarm code displayed on the spindle servo driver and check the warning code instructions in the driver manual. Please shut down and check whether the connecting plug of the control line of the spindle servo drive is correct and reliable, and whether the connecting wire is damaged. Please check whether the mechanical structure of the upper spindle is loose, whether the rotation is smooth, and whether there is rotation blocking. Please restart the machine and check whether the needle and spindle are positioned correctly.
E-116	Lower spindle servo drive failure	 Please check the alarm code displayed on the spindle servo driver and check the warning code instructions in the driver manual. Please shut down and check whether the connecting plug of the control line of the spindle servo drive is correct and reliable, and whether the connecting wire is damaged. Please check whether the mechanical structure of the spindle is loose, whether the rotation is smooth, and whether there is blocking rotation. Please restart the machine and check whether the needle and spindle are

positioned correctly.	
1. Please turn off the machine and check whether the related ma	chinery of the
upper rotation shaft is loose, whether the rotation is smooth and	whether there
is blocking.	
2. Please check whether the connecting plug of the encoder of the	e upper
rotating shaft motor is correct and firm, and whether the connec	ting wire is
E-117 Over current of upper rotating damaged.	
3. Please check whether the connecting plug of the power cord of	of the upper
rotating shaft motor is correct and firm, and whether the connec	ting wire is
damaged.	
4. Please check whether the motor parameters of the upper rotati	ng shaft are
configured correctly.	
1. Please turn off the machine and check whether the related ma	chinery of the
rotating shaft is loose, whether the rotation is smooth, and whether	ner there is
blocking rotation.	
2. Please check whether the connecting plug of the encoder of the	ne rotary shaft
E-118	damaged.
3. Please check whether the connecting plug of the power cord of	of the rotating
shaft motor is correct and firm, and whether the connecting wire	e is damaged.
4. Please check whether the configuration of rotary shaft motor	parameters is
correct.	
1. Please turn off the machine and check whether the related ma	chinery of the
upper rotation shaft is loose, whether the rotation is smooth, and	whether there
is blocking rotation.	
2. Please check whether the connecting plug of the encoder of the	ne upper
The motor of the upper rotating rotating shaft motor is correct and reliable, and whether the com	necting wire is
E-119 shaft is out of tolerance	6.1
3. Please check whether the connecting plug of the power cord	of the upper
rotating shaft motor is correct and firm, and whether the connect	ting wire is
damaged.	-1£4
4. Please check whether the motor parameters of upper rotating	snart are
Configured confectivy.	1. '
retating shaft is loose, whether the retation is smooth, and whether	hor there is
blocked rotation	her there is
Situation	
The motor of the lower rotating 2. Please check whether the connecting plug of the encoder of the	ne rotary shaft
E-120	damaged
3 Please check whether the connecting plug of the power cord	of the rotating
shaft motor is correct and firm, and whether the connecting wire	is damaged
4. Please check whether the configuration of rotary shaft motor	15 aunugou.
	narameters is
correct.	parameters is
DSP3 first line motor over Power off unplug the power cable, confirm the motor or plate f	parameters is

current professional maintenance personnel E-123 DSP3 second circuit motor over current Power off, unplug the power cable, confirm the motor or plate fault, contain professional maintenance personnel E-124 DSP4 second circuit motor over current Power off, unplug the power cable, confirm the motor or plate fault, contain professional maintenance personnel E-124 DSP4 second circuit motor over current Power off, unplug the power cable, confirm the motor or plate fault, contain professional maintenance personnel E-125 DSP3 first circuit motor out of the machine and check whether the encoder plug is loose or whether there is a foreign body that prevents the motor from running	
E-123 DSP3 second circuit motor over cover power off, unplug the power cable, confirm the motor or plate fault, contain professional maintenance personnel E-124 DSP4 second circuit motor over cover c	
current professional maintenance personnel E-124 DSP4 second circuit motor over current Power off, unplug the power cable, confirm the motor or plate fault, conta professional maintenance personnel E-125 DSP3 first circuit motor out of tolerance Turn off the machine and check whether the encoder plug is loose or whet there is a foreign body that prevents the motor from running	act
E-124 DSP4 second circuit motor over Power off, unplug the power cable, confirm the motor or plate fault, conta current E-125 DSP3 first circuit motor out of tolerance Turn off the machine and check whether the encoder plug is loose or whet there is a foreign body that prevents the motor from running	
current professional maintenance personnel E-125 DSP3 first circuit motor out of tolerance Turn off the machine and check whether the encoder plug is loose or whet there is a foreign body that prevents the motor from running	act
E-125 DSP3 first circuit motor out of Turn off the machine and check whether the encoder plug is loose or whether the enco	
tolerance there is a foreign body that prevents the motor from running	ether
E-126 DSP4 first circuit motor out of Turn off the machine and check whether the encoder plug is loose or whet	ether
tolerance there is a foreign body that prevents the motor from running	
E-127 DSP3 second circuit motor out Turn off the machine and check whether the encoder plug is loose or whet	ether
of tolerance there is a foreign body that prevents the motor from running	
E-128 DSP4 second circuit motor out Turn off the machine and check whether the encoder plug is loose or whet	ether
of tolerance there is a foreign body that prevents the motor from running	
1. Please turn off the machine and check whether the related machinery of	f the
The upper rotation axis and the	
E-129	aft
sync motor are normal and damaged.	
3. Please check whether the configuration of rotary shaft motor parameters	rs is
correct.	
1. Please turn off the machine and check whether the related machinery of	f the
upper spindle is loose, whether the rotation is smooth and whether there is	is
blocking.	
2. Please check whether the connecting plug of the encoder of the upper	
spindle motor is correct and reliable, and whether the connecting wire is	
The motor of the upper spindle	
E-130 is out of tolerance	
3. Please check whether the connecting plug of the power cord of the upp	per
spindle motor is correct and reliable, and whether the connecting wire is	
Correct	
A Disease share to the matter process of the suprementially and	
4. Please check whether the motor parameters of the upper spindle are	
1 Discontentry.	£ 41
1. Please turn off the machine and check whether the related machinery of	i the
blocking	18
2 Please check whether the connecting plug of the encoder of the lower	
spindle motor is correct and reliable, and whether the connecting wire is	
F_{-131} The motor of the lower spindle motor is correct and remaple, and whether the connecting wire is	
is out of tolerance 3 Please check whether the connecting plug of the power cord of the lower	er
spindle motor is correct and reliable, and whether the connecting wire is	~
correct	
Have been broken.	
4. Please check whether the motor parameters of the lower spindle are	

		configured correctly.
		1. Please turn off the spindle and check whether the related machinery is loose
E-132	Abnormal synchronization	and rotation is smooth
	between upper spindle and	2. Please check whether the encoder wire and power cord of the spindle motor
	lower spindle	are normal and damaged
		3. Please check whether the spindle motor parameters are configured correctly.
		1. Please turn off the spindle and check whether the related machinery is loose
		and rotation is smooth
F 100	Spindle parking overtime or	2. Please check whether the encoder wire and power cord of the spindle motor
E-133	parking position out of	are normal and damaged
	tolerance	
		3. Please check whether the spindle motor parameters are configured correctly.
		1. Please turn off the spindle and check whether the related machinery is loose
	Spindle lock time out not	and rotation is smooth
E-134	completed	2. Please check whether the encoder wire and power cord of the spindle motor
	completed	are normal and damaged
		3. Please check whether the spindle motor parameters are configured correctly.
E-135	Troubleshooting	After troubleshooting, confirm key for automatic shuttle change, cancel key
		for manual shuttle change
E-136	The head lifting action is	Please check whether the head lifting mechanism is normal and whether the
	abnormal!	electrical wiring is intact
		1. Please check whether the power supply of the automatic shuttle changing
	The automatic shuttle	module is normal.
E-137	changeover module failed to connect	2. Please shut down and check whether the related lines are correct and
		reliable, and whether the connecting lines are damaged.
		3. Please check whether the program version of the automatic shuttle changing
		1 Discrete term off the should be and should end should be should be should be and
		1. Please turn off the shuttle-board and check whether the shuttle-board
E 120	Bobbin motor malfunction	2 Please shaely whether the plug of the shuttle motor is connect and firm, and
E-138		2. Please check whether the plug of the shuttle motor is correct and firm, and whether the connecting wire is demaged
		2 Please sheet whether the shuttle motor is demaged.
		 Please check whether the shuttle motor is damaged. Description off the shuttle based and shark whether the shuttle based
E-139		mechanism is smooth or not
	Abnormal detection of spindle	2 Plages shock whather the plug of the shuttle motor is correct and firm and
	motor origin	2. Please check whether the plug of the shuttle motor is correct and fifth, and whether the connecting wire is damaged
		2 Please check whether the origin signal of shuttle motor is normal
		1 Please shut down and check whether the bobbin arm rotation mechanism is
E-140	The bobbin arm rotation is abnormal	smooth and whether there is a jam.
		2 Please check whether the switch plug is correct and reliable, and whether the
		connecting wire is damaged.
		3 Please check whether the relevant sensor is normal
E-141	Abnormal expansion of shuttle	1 Please shut down and check whether the shuttle boom expansion mechanism
~		

	changer arm	is smooth and whether there is a jam.
		2. Please check whether the telescopic plug of the shuttle changer arm is
		correct and reliable, and whether the connecting wire is damaged.
		3. Please check whether the relevant sensor is normal.
		1. Please power off and check whether the bobbin arm and bobbin butt position
	The babbin some is showing l	are consistent.
E-142	when changing bobbin arm	2. Please check whether the bobbin clamping mechanism is normal.
	when changing bobbin ann	3 Please check whether the hobbin sensor is normal
		3.1 lease check whether the bobbin sensor is normal.
		1. Restore the recently modified parameters, making sure that the parameters
E-143	Abnormal starting Angle of	have changed within the appropriate range.
	spindle synchronous action	2. Please contact relevant after-sales service personnel for problem solving.
		1. During sewing, the rotating shaft failed to rotate normally, resulting in the
E 144	Abnormal position of spindle	2 Destore the recently modified percentary, making ours that the percentary
E-144	synchronous rotation axis	have changed within the appropriate range
		3 Please contact relevant after sales service personnel for problem solving
		1 The middle presser foot (follow up) fails to lift or fall properly resulting in
	Abnormal position of spindle	height deviation.
F-145	synchronous middle presser foot	2 Restore the recently modified parameters making sure that the parameters
1115		have changed within the appropriate range.
		3. Please contact relevant after-sales service personnel for problem solving.
		1. During sewing, the X axis failed to complete the action according to the
	Spindle synchronous X- axis position abnormal	pattern, resulting in the deviation of the X axis direction frame.
E-146		2. Restore the recently modified parameters, making sure that the parameters
		have changed within the appropriate range.
		3. Please contact relevant after-sales service personnel for problem solving.
		1. During sewing, the Y axis failed to complete the action according to the
		pattern, resulting in the deviation of the Y axis frame.
E-147	position abnormal	2. Restore the recently modified parameters, making sure that the parameters
		have changed within the appropriate range.
		3. Please contact relevant after-sales service personnel for problem solving.
		1. During sewing, XY axis failed to complete the action according to the
E-148	Spindle synchronous frame	pattern, resulting in the deviation of the frame.
		2. Restore the recently modified parameters, making sure that the parameters
	position ubiofinal	have changed within the appropriate range.
		3. Please contact relevant after-sales service personnel for problem solving.
		Please press OK to remove the fault.
E-149	The pattern is beyond the scope	1. Please modify the starting point;
	of sewing	2. Check that the sewing range set by the operator head does not match the
 		selected pattern.
E-150	The calibration Angle value of	Please enter the spindle motor calibration interface to reset the spindle

	spindle motor is abnormal	installation Angle
E-151	Laser offset out of stitching	Adjust the laser or brush offset parameters
	range	Aujust the laser of brush offset parameters
E-152	The extension module is not	Shut down the system and check the connection and power supply between
	connected	the extension module and the system
E-153	Extended module over current	Close the system, check whether there is an external valve short circuit, pull
	error	out the valve one by one to eliminate
E-254	Undefined error	An undefined error occurred in communication

3.2 Hint Information List

No.	Name	Content of Sub-information
M-001	Up counter reaches set value	Press Enter
M-002	Down counter reaches set value	Press Enter
M-003	Not at origin, cannot operate	Return to origin firstly
M-004	Pattern data not exist	Please reload or input again
M-005	Set value is too large	Please input value within valid range
M-006	Set value is too small	Please input value within valid range
M-007	Please press "Return to Origin"	
M-008	Save parameter abnormal	Press Enter to restore the default values
M-009	Cannot find pattern in memory	Press Enter to load the default patterns
M-010	Memory full	Please delete the idle sewing data
M-011	Delete pattern data from memory?	Press OK to delete the operation and cancel to exit the current operation.
M 012	Replace pattern data in	Press OK to delete the operation and cancel to exit the current
141-012	memory?	operation.
M-013	Can not delete pattern data.	The selected sewing data is being used
M-014	Format memory?	Press OK to delete the operation and cancel to exit the current operation.
	i ormat memory :	All memory pattern data will be deleted after formatting!
16.015		Abnormal event occurs in the communication between the operation
M-015	Communication error	head and the control box.
M-016	Beyond sewing range	Make sure pattern data is in sewing range
M-017	Fail to load letter sewing file	
M-018	Operation head does not match the type of control box	Please check the model and the software version
M-019	Wrong pattern number	Please input the right pattern number
M-020	Beyond max stitch interval	
M-021	Wrong password	Please input password again
M-022	Hardware clock error	The hardware clock has problem, please contact manufacturer for repair.
M-023	Stitch number beyond range	Please enter [Operation Settings]->[LCD Screen], select 'Large Sticker Count Pattern Support' parameter set to ON
M-024	Inputted stitch interval is too low	Please input value within valid range
M-025	Inputted stitch interval is too	Please input value within valid range
M-026	Offset origin existed	User can only input one offset origin.
M-027	Please press Return to Origin	
M-028	Copy the pointed pattern?	Do you want to overwrite the original graph?

		Yes: Enter, no: X
M-029	Restore to default setting?	Press OK to delete the operation and cancel to exit the current operation
M-030	USB is pulled out	U Disk Is Pulled Out !
	Cannot find pattern data in U	
M-031	disk	
M-032	At least input one letter	At making pattern of letter sewing, user has to input at least one letter
M-033	No alarm record	
M-034	Replace needle	Reach set value for needle replacement, please replace needle!
M-035	Replace oil	Reach set value for oil replacement, please replace oil!
M-036	Clean machine	Reach set value for cleaning machine, please clean machine!
M-037	Different data format	Please confirm the data format
M-038	Cannot create curve	Please input again according to the standards of curve input.
M-039	Cannot insert trimming at current position	Please add trimming behind sewing data
M-040	Cannot add same function code in one position	
M-041	Cannot insert offset origin at current position	Please add offset origin after feeding
M-042	Cannot create arc or circle at the inputted point	Please input again
M-043	Cannot create overlapped sewing data	Please add overlapped sewing after close shape
M-044	Cannot insert trimming after down pause	
M-045	Cannot insert down pause before trimming	
M-046	Select wrong position	
M-047	Cannot scale	
M-048	Wrong pattern data	
M-049	Create arc?	
M-050	Create circle?	
M-051	Create curve?	
M-052	Create polygon?	
M-053	Presser is not down	Please step pedal
M-054	Wrong User ID	Please input again
M-055	Cannot change system time	The periodical password is set. Can not change system time.
M-056	Fail to save password file	
M-057	Fail to load password file	
M-058	Password saved successfully	
M-059	Fail to clear all passwords	Cannot delete password file
M-060	Fail to clear password	After the password is cleared, the file input becomes abnormal

M-061	Password file is deleted without authorization	Periodical password is deleted without authorization, please turn off machine
M-062	User ID file damage	
M-063	Input pattern name	
M-064	Please clear current combination data	Press "CLR" to delete current combination data
M-065	Empty input invalid	Please enter your password.
M-066	Password not match	Please re-enter the current password
M-067	New password is different.	Please re-enter a new password and reconfirm
M-068	Touching panel correction successful	Correction is successful. Please turn off power to restart.
M-069	Clear alarm records?	Yes: Enter No: X
M-070	Delete the selected file?	Yes: Enter No: X
M-071	Copy all patterns	Cover the original patterns? Yes: Enter No: X
M-072	Fail to copy file	Please check the space in memory
M-073	Fail to copy file	Please check if the USB disk is pulled out!
M-074	Fail to open file	Fail to open file
M-075	Format not match	Formats don't match, current load denied
M-076	Please create catalogue and file	Please create catalogue bakParam in U disk. Name the back-up file as backup.param and copy it to bakParam catalogue !
M-077	File I/O error	File I/O error
M-078	Please select file	Select the file for input/ output
M-079	File not exist	Cannot find the corresponding file
M-080	Not input move amount	Please input move amount
M-081	Determine to perform the current action?	Are you sure? Yes: Enter, no: X
M-082	Clear accumulated running time?	Are you sure? Yes: Enter, no: X
M-083	Clear accumulated sewing pieces?	Are you sure? Yes: Enter, no: X
M-084	Clear accumulated power-on time?	Are you sure? Yes: Enter, no: X
M-085	Clear accumulated stitch numbers?	Are you sure? Yes: Enter, no: X
M-086	Periodical passwords can't be same to super password	Please input password again
M-087	Cannot change up counter (NUP)	At change, please turn off setting (NUP)
M-088	Cannot change down counter (NDP)	At change, please turn off setting (NUP)
M-089	Pattern list (hotkey) is empty	If the pattern list is empty, the system will automatically input the current pattern to list

M-090	Not select update item	Please select item for updating. At least select one item
M 001	Some selected update items	The item not existing will be cancelled after return. For updating the
101-091	don't exist.	rest items, please confirm again
M-092	Update successful	Update is successful, please restart machine.
	Format II Disk?	Press Enter to perform formatting operation. Press Esc to quit current
M-093	Format U Disk?	operation. After formatting, all pattern files will be deleted.
101-075	Update successful	Update is successful, please restart machine.
M-094	Successful	Current operation is successful!
M-095	Failed	Current operation is failed!
M-096	Format pattern list (hotkey)?	Press Enter to perform formatting operation. Press Esc to quit current operation
M-097	Cover the pattern with same name in U disk?	Press Enter to cover files. Press Esc to quit current operation
M-098	Fail to correct touching panel	Please perform correction again
M-099	The selected pattern is not normal format, please transform.	Press Enter to perform transforming operation. Press Esc to quit current operation
M-100	Cannot transform this pattern	Please confirm pattern
M-101	Restore all the settings?	Are you sure? Yes: Enter, no: X
M-102	Restore the selected item?	Are you sure? Yes: Enter, no: X
M-103	Not select item	Please select one or more parameters
M-104	Parameters initialization	Clear all data in . Please turn off power and restore the setting of DIP switch.
M-105	Cannot copy and cover current pattern	Current pattern number in copy group, system cannot cover it.
M-106	Need transform pattern format	Select pattern is not a standard file format, please convert it to use
M-107	Cannot perform operation to combined pattern	Please enter pattern connection mode, press "CLR" to cancel the combined pattern
M-108	Delete original pattern?	Delete original pattern after format transforming? Yes: Enter No: X
M-109	Intermediate presser in down position	Please lift intermediate presser
M-110	Turn off machine, Bye	
M -111	Large stitching pattern file format	Not support this pattern format in this system
M-112	Wrong transformed pattern format	Please confirm pattern
M-113	Transformed pattern data is too long	Please enter [Operation Settings]->[LCD Screen], select 'Large Sticker Count Pattern Support' parameter set to ON
M-114	Cannot open transformed pattern	Please confirm pattern
M-115	Wrong accuracy of transformed pattern	Set the resolution in the platemaking software to 0.1mm(Tools -> Options Settings - BBB>

		Resolution)
M-116	Parameter recovery successful	Parameter recovery is successful, please restart machine
M-117	Software version saving successfully	Software version is saved to the base catalogue of U disk successfully
M-118	Successfully set	The machine needs to be restarted
M-119	USB drive does not exist	Please insert the USB drive containing the MP3 files
M-120	There is no second origin	There is no second origin for the current pattern.
M-121	Validation failed while upgrading master program	
M-122	Threading a thread	
M-123	Whether to restore the saved custom parameters	Determine the key to perform the operation, cancel the key to exit the operation
M-124	The current pattern is locked by the template	Please unlock the template!
M-125	Parameter loading failed	Please contact the manufacturer for maintenance!
M-126	The bottom line is insufficient	Please change the bottom line, press the OK key and re-count
M-127	Cannot generate multiple slit data	
M-128	Complete the graph copy?	
M-129	Memory allocation error	
M-130	Continued use will convert to dot seam	
M-131	The panel does not match the main control	The current system has a staging password, you need to contact the manufacturer to unlock!
M-132	The current panel has a password and needs to be synchronized	There is a password in the panel, but no password in the master control!
M-133	Current master exists password, need synchronization	There is a password in the master control, but there is no password in the panel!
M-134	You need to replace the font, please turn off the power and restart	Special languages turn off speech
M-135	Motherboard ID does not exist	
M-136	Language font is missing	Please update the required font file
M-137	C pattern Failed to open	Error in pattern file, will be deleted!
M-138	Incorrect content of pattern shortcut key	
M-139	The batch conversion function cannot be accessed	
M-140	The number has been taken	
M-141	A trace could not be generated	
M-142	Internal data exception	

M-143	There arc	The ellipse will be converted to point slits
M -144	Determine clearance of production records?	Are you sure? Yes: Enter, no: X
M-145	Clock in success	
M-146	Clock in failure	
M-147	Shrinkage seam conversion is successful	Shrinkage seam part has become a point seam, can not be converted to shrink seam again, it is suggested to keep the original pattern, for the next modification
M-148	Determine clear switch machine record?	Are you sure? Yes: Enter, no: X
M-149	No switching machine record	
M-150	Failed to upgrade the drive program	
M-151	The request failed	
M-152	Password information saved successfully	
M-153	The upgrade file does not exist	The directory does not exist or there are no files in the directory
M-154	Please set the add counter invalid	
M-155	Please set the subtraction counter invalid	
M-156	Are you sure to correct the spindle?	Are you sure? Yes: Enter, no: X
M-157	Invalid block number	
M-158	Reject the current operation	
M-159	The receive parameter is null	
M-160	The parameters have not changed	
M-161	QR code display failed	
M-162	The current position needs to be corrected due to reading new patterns	Please press the OK button
M-163	Shrinkage stitch number exceeds actual stitch number	
M-164	Cannot generate slot data	
M-165	Are you sure to correct the upper shaft?	Are you sure? Yes: Enter, no: X
M-166	Are you sure to correct the lower shaft?	Are you sure? Yes: Enter, no: X
M-167	No input point	Coincident with the previous input point position

M-168	Generate curve data?	
M-169	The software does not match	
	the file system	
M-170	Password date change failed	The date entered should be before the date of the next password attack
M-171	Whether to confirm winding	Are you sure? Yes: Enter, no: X
M-172	Start pin contains function code, please confirm whether to modify	The "OK" key means to modify the function code, and the "Cancel" key means to exit and reselect. If you want to keep the function code, please refer to the code information on the right side of the interface to continue moving and make the starting pin the function code.
M-173	The panel is not encrypted, the master control is encrypted	Please confirm whether a new panel has been replaced
M-174	The panel is encrypted, the main control is not encrypted	Determines key synchronization encryption status
M-175	Remote staging Settings already exist on the system	Determine the key to continue operation, cancel the key to exit operation
M-176	Wireless module 1 connection failed	System speed reduced to the minimum, please contact the manufacturer
M-177	Do you want to update the pattern thumbnails immediately?	The thumbnail image will also be generated after the pattern is used
M-178	The system has been set to not network mode	After the networking function is turned on, it can be detected
M-179	A join failure	
M-180	Unable to convert	
M-181	This machine has a password, please note!	
M-182	Whether to delete the selected shape point	
M-183	Whether to modify shape point properties	
M-184	Trick does not exist, whether to download from the server	Are you sure? Yes: Enter, no: X
M-185	The request pattern is not in standard NSP format	
M-186	There is no request pattern on the server	
M-187	Server update software, whether to upgrade operation	Do you want to upgrade immediately? Yes: Enter, no: X
M-188	Machine not registered	
M-189	The action did not complete and timed out	

M-190	Location query timeout	
M-191	Stretch will affect the shrinkage data	There is a shrinkage seam in the sewing data, and the shrinkage seam will be automatically added by expansion, which will destroy the previous shrinkage seam data. Please pay attention to save another pattern
M-192	Upgrade of boot screen is abnormal	
M-193	Please scan the code and start processing	
M-194	Herringbone seam width is too large, need to insert transverse stitch number	
M-195	The panel is not connected to the main control	Dial switch 5 is turned on
M-196	The pattern accuracy is higher than the system accuracy	There will be a loss of precision in the pattern data
M-197	Whether to overwrite other format patterns of the same name on a USB disk	Press OK to overwrite the file, and press Cancel to exit the current operation.
M-198	Generate pattern, continue editing?	Enter, continue to set parameters or function code; No: X, exit save pattern.
M-199	Do you restore rigidity of all stitches to their original values?	Are you sure? Yes: Enter, no: X
M-200	Do you want to save laser offset values?	Are you sure? Yes: Enter, no: X
M-201	Do you want to save the origin offset value?	Are you sure? Yes: Enter, no: X

4.Appendix 2

4.1 Operating box mounting dimensions

4.2 Control box mounting dimensions

4.3 Diagram and Cable Connection





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