

OWNER'S MANUAL

Touch Panel EC

6T41X Pattern Sewing Machine





Dahao public number Dahao service cloud

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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.
A	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		
A	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 like high-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.	
	Working temperature: 0°C~45°C.	
U	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.	
•	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.	
0	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.	

e	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.	
\oslash	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.	
	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.	
9	For any trouble, please contact the trained technicians or the supplier of that machine.	
	Maintenance & Inspection	
\oslash	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.	
A	 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.	
A	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.	
\oslash	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 Overview

In 41X Series Industrial Sewing Machine Computer Control System, the spindle motor is driven by AC servo control technology with advanced level in the world, which has the characteristics of large torque, high efficiency, stable speed and low noise. The operation panel is an operation style that uses a variety of buttons to interact with each other with a single interface, and the pattern design diversification can meet the supporting requirements of different customers.

1.2 Features and Parameters

No.	Controller Model	41X Electronic Pattern Machine	
1	Sewing Range	X (left and right) direction Y (front and back) 220(mm) x 100(mm) 300(mm) x 200(mm) 600(mm) x 400(mm) 1000(mm) x 600mm)	
2	Maximum Sewing Speed	3000rpm (when the needle pitch is less than 3mm)	
3	Stitch Length	0.1~12.7mm (minimum resolution 0.05mm)	
4	Presser Foot Feeding	Intermittent feeding (pulse motor two-axis drive method)	
5	Needle Bar Stroke	41.2mm	
6	Needle	DP×5, DP×17	
7	Outer Presser Foot Rise	Standard 18mm Max 22mm (Pneumatic Max 25mm)	
8	Middle Presser Foot	Stepper drive (adjustable range: 0~10mm)	
9	Middle Presser Foot Rise	10mm	
10	Pattern Data Storage	Memory/U Disk	
11	Pause Function	The sewing machine can be stopped during sewing	
12	Zoom-In -Out Function	When the stitch sewing pattern is selected, the X and Y axes can be enlarged and reduced independently. $1\% \sim 400\% (0.1\% \text{ unit})$	
13	Zoom-In And -Out Mode	Increase or decrease Stitch length/Increase or decrease pattern Stitch method	
14	Sewing Speed Limit	200~3000rpm (100rpm unit)	
15	Pattern Selection Function	Pattern number selection method	
16	Counter Plus	Not counting/counting by pattern/counting by cycle (0 \sim 99999)	
17	Counter Minus	Not counting/counting by pattern/counting by cycle ($0 \sim 99999$)	
18	Sewing Machine Motor	Servo motor	
19	Stop Function at The Dead Point on The Needle Bar	After sewing, the needle bar can be returned to the top dead center position.	
20	Rated Power	600W	
21	Temperature Range	0°C~45°C	
22	Humidity Range 35%~85% (no condensation)		
23	Power Supply Voltage	AC 220V ± 10%; 50/60Hz	

Product Performance Standards: QCYXDK0004- 2022 Industrial Sewing Machine Computer Control System.

1.3 Precautions for safe use

- Installation
 - Control box
 - Please follow the instructions to install properly
 - Accessories
 - Please turn off the power and unplug the power plug before installing other accessories.
 - Power cord
 - Please do not use gravity to hold down the power cord or excessively distort the power cord.
 - Please do not put the power cord near the rotating part, at least leave the 25mm above.
 - Before the control box is connected to the power supply, please check again whether the voltage of the power supply to be connected is the same as that marked on the control box and determine the position before the power supply can be supplied. If there is a power transformer device, the same should be checked before the power supply. At this time, the button power switch on the sewing machine must be placed in [OFF].
 - Ground
 - To prevent electric shock from noise interference and leakage, the grounding wire on the power cord must be properly grounded.
 - Accessory device
 - To connect electrical accessories, please connect them according to the indicated locations.
 - Disassembly
 - Before removing the control box, the power must be turned off and the power plug unplugged.
 - When pulling out the power plug, it is forbidden to only pull the power cord, and pull out the power plug by hand.
 - There is dangerous high voltage in the control box, so if to open the cover of the control box, you need to turn off the power first and wait for more than 5 minutes before opening the cover of the control box.

• Maintenance, inspection and repair

- Repair and maintenance operations should be carried out by trained technicians.
- Be sure to turn off the power when changing the needle and shuttle.
- Please use the original parts.

• Other safety measures

- During the operation of the sewing machine, please do not touch the parts that will rotate and move (especially needles and belt accessories), and pay attention to the hair away from them, so as to avoid danger.
- The control device should not fall to the ground, nor should other objects be stuffed into the gap.
- Please do not operate without removing each cover.
- If the control device is damaged or can not operate properly, it is necessary to ask experienced technicians to adjust or check and repair it, and please do not run it before the fault is eliminated.
- Customers are kindly requested not to modify or change this control device by themselves.

• Disposal

■ Please dispose it as general industrial waste.

• Warning and danger signs

Misbehavior may cause danger. The degree of this is explained by the marking distinction described later.

▲藝告	Wrong action may result in serious injury or death	⚠注意	Wrongdoing may result in injury or damage to home or property
■ TI	ne indications of the symbols are as follo	OWS.	
\triangle	Please follow the instructions	A	Be aware of the danger of high voltage (electric shock)
	Watch out for high temperatures	•	Be sure to connect the ground wire
\oslash	Never		

1.4 Precautions for Usage



1. When pressing the switch [ON], the foot must 2. Be sure to turn off the power before leaving the leave the pedal. workplace. AFF ON 3. Be sure to turn off the power when turning the head 4. The grounding wire should be well grounded. sideways or changing the needle or threading the upper 電流 thread. OFF ON 绿(绿/黄) 5. Do not use Multi-class Directory Interfacei-jack 6. There is dangerous high voltage inside the control extension cords for household use. box, so wait 5 minutes after turning off the power before opening the cover of the control box. 高压电危险 7. After replacing the motor, be sure to set the installation angle of the Main Motor as shown in this document. 8. Please stay away from machines that will produce 9. When using the external signal socket to connect high frequency noise interference. the application accessories, the length of the connecting line should be as short as possible, the long line may cause malfunction, please use the isolated cable for the connecting line.



1.5 Standardization

The function button adopts the recognized graphic logo in the industry, and the graphics are international languages, which can be recognized by users all over the world.



1.6 Mode of Operation

Brother vertical screen operation panel adopts the industry's advanced touch operation technology, friendly interface and convenient control have brought revolutionary changes to the user's daily use. The user can touch the screen with a finger or other object to complete the corresponding operation.



Attention:

In the process of use, users should pay attention to avoid using sharp objects to touch the screen, so as not to cause permanent damage to the touch screen.

2 Operation Instruction

2.1 Basic Operation

1. After turning on the power switch, the power-on standby mode interface is displayed.



2. The pattern to be sewn

The selected pattern will be displayed in the current interface. To change the pattern (sewing data), please refer to the section [2.4.5 Pattern Management] for details.



3. Start sewing

A. Before the actual sewing, please confirm the setting of the sewing conditions again, especially the setting of the speed setting value (200-3000).

B. The sewing machine speed is determined by the speed setting value and the Pitch. The speed setting value determines the maximum speed of the sewing machine, while the Pitch will limit the sewing machine speed.

[Note]When the sewing machine is sewing, please do not change the speed setting value (except when it is paused in the middle), which will affect the thread take-up.

A. When the pattern is flashing on power-on, press the frame pedal to drop the frame, and press the start pedal to perform the action of finding the origin. At this time, the pattern program number enters the ready-to-sew state, and the number does not flash. When the frame is down, press the start pedal to start sewing.



4. Pause in the middle

To stop running during sewing, press the emergency pause button installed on the head (see figure below).

The sewing machine immediately stops in the upper stop position (factory standard setting) and enters the halfway state. To release the pause state, press the emergency stop button-pop up the error module-press the RESET contact to report the error.

- A. If the switch is operated by foot, the sewing operation will continue. (Whether pressing the pedal to continue sewing after the sewing emergency stop is affected by parameter No. 653, the default is to press the pedal to return to the origin, move the needle position back and forth and then press the pedal to continue running)
- B. Press the forward/backward button to move to the sewing start position.
- C. To use the foot outer platen switch, the outer platen can be raised.
- D. Switch the speed, counter, and Stitch shortcut parameters through the shortcut parameter switch button, and adjust the parameter value through the menu change button
- E. The Middle Presser foot can be raised and lowered.



5. The sewing method of repair

The above halfway suspension function can be used to do repair sewing. If the broken thread presses the emergency pause button, after the machine needle stops in the upper stop position, press and hold the back shift button to rewind the outer presser foot to the first two or three stitches at the broken thread, and then press the running switch after putting on the needle and thread to continue sewing.

NOTE: when threading, never use your foot to step on the running switch, it will make the sewing machine run, it is very dangerous. So be sure to move your foot off the running switch when you wear the needle and thread.

2.2 Description of The States Displayed by The power-on standby mode interface



Function Description:

No.	Function	Description
Α	Language switch button	Switch to the language of each country.
В	Enter button	Enter into the Main interface.
С	Boot detection mode	Enter detection mode.

Power-on standby mod	de
Memory switch Setting Mode (Standard)	Speed detection
Memory switch tting Mode (Administrati	Mid-Presser detection
Data initialization	Origin position adjustment
Input detection	Upper needle stop pos. adjustment
Output detection	RFID detection
LCD detection	Auto-tuning

Function Description:



No.	Description				Content
	Memory	Switch	Setting	Mode	This mode can set some basic parameters that users can use in
A	(Standard)				their daily work. See [2.2.1] for details.
В	Memory	Switch	Setting	Mode	The difference between this mode and the standard parameters is

Click in power-on standby mode interface to enter Boot Detection Mode.

No.	Description	Content
	(Administrate)	that the parameters are more comprehensive and have more
		functions, which are developed and used by agents and
		after-sales personnel. See [2.2.2] for details
		This interface provides three formatting methods: Format USB
C	Data initialization	Data, Format All Memory Data (Pattern) and Custom Format
		Memory Data (Pattern). See [2.2.3] for details
		In this mode, click the ON switch after the input signal to detect
D	Input detection	the signal status of the corresponding signal, and OFF indicates
	Input detection	off. Click the programmable IO signal key to perform input
		configuration operations. See [2.2.4] for details
		Press the output signal button under the interface, you can detect
Е	Output detection	the output state of the output signal such as the electromagnet.
		See [2.2.5] for details
		Under the liquid crystal detection function, the liquid crystal will
Б	LCD detection	successively display five colors: white, black, red, green and
Г	LCD detection	blue, which is used to determine whether the liquid crystal is
		eclipsed. See [2.2.6] for details
G	Voice switching Settin	You can switch languages of different countries.
Н	Enter Main interface	The main screen is displayed.
т	Enter/Exit the Administrator	Van an arit the detection mode
1	Interface	Fou can exit the detection mode.
J	Auto-tuning	The self-tuning mode screen is displayed.
		Under this interface, the pattern number can be written into the
K	RFID detection	card, click to read and identify the pattern number stored in the
		card. See [2.2.7]
т	Linner nin ston resition adjustment	Under this interface, the maximum correction of the pin bar and
L	Opper pin stop position adjustment	the correction of the parking space can be performed. See [2.2.8]
		In this interface, the ON/OFF status of the sensor can be
М	Origin position adjustment	displayed in real time by driving XY movement through the
		arrow keys. See [2.2.9]
N	Mid Presser detection	On the Detection Mode screen, press the press pin detection
N		button to access the press pin detection function. See [2.2.10]
		Under this interface, the spindle motor can be set to the specified
0	Speed detection	speed, and the spindle motor can be set to forward or reverse,
0		and the actual speed will be displayed in the actual speed bar.
		See [2.2.11]

2.2.1 Memory Switch Settings (Standard)



Click Memory Switch Setting Mode (Standard) in the power-on standby mode interface, the interface switches to the Main interface, and enters the standard parameter Setting Mode.

After entering this mode, use the pattern change

button to switch parameters, use the menu change button to set the parameter value, click

the TEST button to save and exit, and

click the RESET button to reset the current parameter default value.

NOTE:

1. This mode only has some basic parameters that users can use in their daily work.

2. Standard parameters can also be opened in the standard menu function mode of the Main interface.

3. Standard parameters include: (1, 2, 100, 200, 300, 400, 401, 402., 403 parameters)

2.2.2 Memory Switch Settings (Administrate)



Click Memory Switch Setting Mode (Administrate) in the power-on standby mode interface to set the administrator Memory switch parameters.

After entering this mode, use the pattern

change button is to switch parameters, use the menu change button to set the parameter

value, click the TEST button to save

1

and exit, and click the RESET button reset the current parameter default value.

NOTE:

1. The difference between this mode and the standard parameters is that the parameters are more comprehensive and have more functions, which are developed and used by agents and after-sales personnel.

2. This parameter can also be opened from the Function Setting Mode (mechanical parameter) in addition to power-on

2.2.3 Data Initialization



Press the Data initialization button

interface to enter the Format mode.

This interface provides three formatting methods: Format USB Data, Format All Memory Data (Pattern) and Custom Format Memory Data (Pattern).

1. Description of Format USB:

After pressing the "USB" button, all files in the USB will be deleted. If you need to back up the data, please make a backup in advance.

2. Description of formatted memory:

After pressing the "Memory" button, all patterns in the memory will be formatted.

[Note] After executing the memory format command. When press the exit button to exit, the prompt message "No pattern in memory" will be displayed, and the factory pattern will be loaded

automatically after the confirmation button is operated.



3. Description of Custom Format:

After pressing the "Custom" button, you will enter the custom format Memory pattern interface.

A list of all patterns is provided in this interface, and patterns can be selectively deleted.

[Note] The current sewing pattern cannot be deleted.

2.2.4 Input Signal Detection

Power-on standby mod	e
Memory switch Setting Mode (Standard)	Speed detection
Memory switch tting Mode (Administrate	Mid-Presser detection
Data initialization	Origin position adjustment
Input detection	Upper needle stop pos. adjustment
Output detection	RFID detection
LCD detection	Auto-tuning
A.7	

8	Input Signal Detection	
	Start Switch(Pedal)	OFF
	Presser Switch(Pedal)	OFF
	Pause Switch	OFF
	Thread-Break Detection	OFF
	X-Motor Sensor	OFF
	Y-Motor Sentor	OFF
	Mpf Origin	OFF
	Safe Switch	OFF
	Ext-In1	OFF
	Ext-In2	OFF
	Ext-In3	OFF
	Ext-In4	OFF
	Ext-In5	OFF
	Three Step Pedal	OFF
>	×	Prog. IO

Click Input detection in the power-on standby mode interface to set it.

Function Description:

Under the detection mode interface, enter the input signal detection function. ON: Indicates open; OFF: Indicates off(1)Input Signal Detection: (2)Start Switch(Pedal) (3)Presser Switch(Pedal) (4)Pause Switch (5)Thread-Break Detection (6)X-Motor Sensor (7)Y-Motor Sensor (8)Mpf Origin (9)Safe Switch (10) External input 1 (11)External input 2 (12)External input 3 (13)External input 4 (14)External input 5

(15) Three Step Pedal

Press the Exit button



previous screen.

	Input signa	l configuration
	IN1	No
	IN2	No
	IN3	No
	IN4	No
	IN5	No
	PH	No
	SFSW	No
>	<	//

Click the programmable IO signal button

to enter the input signal configuration interface, and then perform input configuration operations.

Description:

(1, 1,, 2) (D12)	IN3	
Click input 3 (IN3)	to enter th	e
stom input signal interf	ace and select the inr	•11

custom input signal interface, and select the input

as follows:

signal by clicking the button

a. None

- b. Determine the origin
- c. Start sewing
- d. Sewing speed plus
- e. Sewing speed minus
- f. Air pressure detection
- g. Thread-Break Detection
- h. Special input function 1~9

Click OK button to confirm and return to the input signal configuration interface, click Cancel

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

	Special input function 8	
	Special input function 9	
N3→	No	
	Find home	
	Start sew	
	Detailed settting	

Detailed settting Click the detailed setting button , to

enter the custom input signal interface, and the following parameters can be set:

> 1) Input signal switch state setting (logic): normal/inverted

Default: normal

2) When the switch is set alternately, the switch

state is retained until the next time: normal/alternate switch

Default: normal

2.2.5 Output Signal Detection

8	Output detection mode	
	Wipe	Valve4
	Trim	Valve5
	M-Presser	Valve6
	M-Presser	Valve7
	Release	Valve8
	Thread clamp T2	Valve9
	Valve1	Valve10
	Valve2	
	Valve3	
>	<	Prog. IO

Function Description:

Press the output signal detection button

in the power-on standby mode interface to enter the output signal detection function.

Press the output signal button in this interface to detect the output state of the output signal such as the electromagnet.

Type of output signal:

- Pull out the wire a.
- b. Thread trimming
- c. Presser foot
- d. Intermittent Presser foot
- e. Loosen the thread
- f. Clamp T2
- Auxiliary air valve 1~8 g.

Press the exit button to return to the previous screen.

[Note] The sewing machine has actual action.

Output custor	mizing setting
Valve 1 (V1)	Auxiliary press frame
Valve 2 (V2)	Sideslip presser foot lifting
Valve 3 (V3)	Sideslip presser foot extension
Valve 4 (V4)	PF
Thread clamp(T2	Thread trim
Valve 6 (V6)	No
Valve 7 (V7)	No
Valve 8 (V8)	No
×	

	Special presser foot function 6	
	Special presser foot function	7
	No	
Valve 1 (V1)-	Auxiliary press frame	
	Reverse presser foot	
	Main motor running	
	Sewing completed	
	Detailed settting	▲ ▼

Custom output signal:

Click the [Programmable IO] button to enter the custom output signal interface, and then perform custom output signal operations.

Example:

Click the "Valve 1 (V1)" button to enter the custom output signal interface, click the button

	to select the outr	out sig	nal, as follows:
a.	None	t.	Thread trimming
b.	Auxiliary press frame	u.	loose thread
c.	Flip Presser foot	v.	Dial the line
d.	Spindle running	w.	Middle Presser
e.	Sewing completed		foot
f.	Error state	х.	External pressure
g.	Find the origin		frame
h.	Secondary origin	у.	Insert knife before
i.	Stop halfway		sewing
j.	Side sliding Presser	z.	Blow air after
	foot telescopic		sewing
k.	Side sliding Presser	aa.	Needle cooling
	foot lift	ab.	Disconnect output
1.	Thread catch	ac.	Emergency stop
m.	Function 1~9		output
n.	Function A/B/C	ad.	Markers
0.	Return to the origin	ae.	Laser Positioning
	and the pressure frame		Light - Left
	falls	af.	Laser Positioning
p.	Back to the origin and		Light - Right
	the frame falls	ag.	Auxiliary fixtures

- q. Laser
- r. Laser suction
- s. Laser lift

1~9

- ah. Start automatic shuttle change
- ai. Indicator light during work
- aj. Standby indicator
- ak. Special Presser
 - foot function 1~7

Click the OK button to confirm and return to the output signal configuration interface, and click

the cancel button to cancel the operation and return to the output signal configuration interface.





2.2.6 LCD Detection



Function Description:

the liquid crystal is discolored.

Press the LCD detection button in the power-on standby mode interface to enter the

LCD detection function, click the position other than the Exit button, , and the liquid crystal will display five colors of white, black, red, green and blue in sequence, which is used to determine whether

Press the Exit button to return to the previous screen.

2.2.7 RFID Detection



Function Description:

Write: write the pattern number to the card.

Read: click to read to identify the pattern number stored in this card.

[note]: open the other parameters A-34 and A-35.



A-34 and A-35 Parameter Settings: Home screen Tap to enter the function setting screen.

Function setting	2023/09/11(Mon) 09:31
Program	Clock
File	Tool
Operation	Edit
<mark>5</mark>	

	Program mode	2023/09/11(Mon) 09:2
	Mechanical	Other
	LCD Screen	Editting settings
	Maintenance	Counter
>	Modified	Shortcut para.

Function Setting interface Click Operation setting to enter the Setting mode interface, click Other to enter the Setting mode (other) interface.

Setting mode <other> 2023/09/11(Mon) 09:20</other>
A-33 Stop angle of main motor
A-34 Template identity setting
A-35 2./PEID read-write device
A-36 X offset of mark pen
A-37 Y offset of mark pen
A-38 Running speed of mark pen
A-41 The stroke height of the outer pressure
20 A-43 Presser foot to lower the number of stit
Needle-up presser foot lowering height
Custom 04/06
Program mode <value 09="" 09:21<="" 11(mon)="" 2023="" modi="" p=""></value>
A-34 Template identity setting 01/01
OFF
ON

In the Setting Mode (Other) interface, click parameter A-34 and select ON to open

Program mode <value 09="" 09:21<="" 11(mon)="" 2023="" modi="" p=""></value>			
A-35	Template identity of	device	01/01
0	Useless		
1	Bar code scanner		
2	RFID read-write d	levice	
65.00			
×			ł

Click on parameter A-35 and select 2FRID Read/Write Device.

2.2.8 Upper pin stop position adjustment



Function Description:

Press the spindle motor installation angle setting

button in the power-on standby mode interface interface to enter the spindle motor installation angle setting function.

1) Needle bar highest correction

Remove the spindle motor under the current interface, rotate the handwheel to shake the needle bar of the sewing machine to the highest point, reinstall the spindle motor, make sure that the displayed electrical value is in the range of 0-30 $^{\circ}$ or

330°-330°, then press OK button . Otherwise, remove the spindle and repeat the above action.

2) Parking space correction

Remove the spindle motor under the current interface, rotate the handwheel to shake the needle bar of the sewing machine to the parking position, reinstall the spindle motor, make sure that the electrical value displayed is in the range of 23-83 °

and then press OK button . Otherwise, remove the spindle and repeat the above action.

2.2.9 Origin Position Detection



Function Description:



Press the Origin Detection button in the power-on standby mode interface to enter the XY Origin Detection function.

In this interface, the XY movement is driven by the direction buttons, and the ON/OFF status of the sensor can be displayed in real time during the process.

ON: Sensor detected

OFF: No sensor detected



Press the Exit button to return to the previous screen.

Set the installation position compensation amount of the laser equipment through the laser compensation parameters.

[Note] The sewing machine has actual action.

The axis lock icon in the interface ability to lock or release X or Y motors

2.2.10 Mid-Presser detection



Function Description:

Press the Mid-Presser detection button

in the power-on standby mode interface interface to enter the Mid-Presser detection function.



: Switch the position of the Middle Presser

foot
2.2.11 Speed detection



Function Description:

previous screen.

Press the Speed detection button
in Speed Detection Mode Interface to enter the
spindle speed detection function.
Set the target speed of the spindle motor
through and , Set the forward or reverse
rotation of the spindle motor through and
. After pressing the run button . the spindle
motor will rotate at the set speed. At this time, the
actual measured speed will be displayed in the actual
speed input field.
Press the stop button for to stop the machine.
Press the Exit button k to return to the

2.3 Description of Main Interface



Click in the power-on standby mode interface to enter the Main interface.



-



No.	Function	Content
		X-SCALE: The scale of the pattern in the X axis
		Y-SCALE: The scaling of the pattern in the Y axis
		SPEED: Displays the sewing speed of the current pattern
		COUNTER: Displays the numeric value of the current counter
•	Main interface shortcut	SPLIT NO.: Broken seam
A	parameters	(Note: 1. You need to use a pattern with a pause code to switch to this
		function.2. the pause code before and after each represent a segment, that
		is, a pattern if there are 2 pause codes will produce 3 segments of stitches,
		jump is to jump to the position where each section starts, press the frame,
		start can start sewing from the corresponding position.)
		After entering the main interface, click the "SELECT" key to toggle the
В	Select the key	five options in A, and click the menu change button to modify the value.
		When the system is in the preparation mode (the pattern number does not
		blink) and the outer pressure frame is in the falling state, click the test
		key, at this time the test is lit, and the test seam state is started, and the
C	Sewing trial button	start frame will automatically perform the test seam along the current
		pattern. If you click the test key again or the "Forward, Back" key during
		the automatic test stitching process, you can click the "Forward,
		Backward" key to perform a single-step test, and click the test key again
		to continue the automatic test.
		Click this button to control the press frame and press the foot to fall or lift
		at the same time. When the button is selected, click the pattern toggle key
D	Threading/Presser foot	to enter the foot height adjustment function, then click the "BACK or
	height setting button	FWD" key (i.e. parameter modification key) to change the height of the
		middle pressor foot (that is, the center press foot action stroke), and click
		Click this button to entry the memory/USD flock drive nettern selection
Е	R/W button	interface. you can provide all memory patterns
		Press the winding key the pattern does not flash the pressure frame falls
		press and hold the winding key foot to start the pedal spindle to start
		rotating open the winding mode. The winding key can be released during
		rotation and the action does not ston. Until the nedal is released ston
		winding mode
		NOTE.
		1. Correct use method: Press and hold the winding button and step on the
F	Winding button	start pedal to start the spindle to rotate. During the rotation, you can
		release the winding button and the action will not ston. Winding mode is
		stopped until the pedal is released.
		2. Winding speed setting: The winding speed is the same as the rotation
		speed. When the spindle starts to rotate, the Main interface parameter
		automatically jumps to SPEED, and the menu display box shows that the
		spindle rotation speed is the winding speed.

C	Shortcut parameter switch	Switch between Main interface parameters, administrator parameters and	
U	button	you can modify the contents of J.	
TT	Dattam calentian button	Switch the pattern number, menu item or parameter. (Example of	
п	Pattern selection button	switching pattern display box Content: pattern number, parameters, etc.)	
Ι	Program display box	Display the pattern number/parameter No., etc.	
т	Many digular hav	Under the parameters in the display menu (displays the Main interface	
J	Menu display box	shortcut parameters settings/standard parameters, etc.)	
K	Pattern shortcut buttons	After setting the U/C pattern, click F01-F10 to switch the U1-U10 pattern	
L	Pattern shape	Display the shape of the current sewing pattern.	
М	Graphical preview	Enter the graphic preview interface (see operating manual)	
N	Display function list	Enter the function directory interface (see 2 for details)	
0	Display menu list	Enter the menu menu interface (see 2 for details)	
		1. Cancel some of the errors (such as: emergency stop is not reset)	
	Reset key	2. Exit the ready to sew mode (i.e., make the pattern flash)	
P		3. Restore the initial value of some parameters (such as: X, Y scaling,	
		counter, etc.)	

2.3.1 Speed Adjustment



Function Description:

No.	Description		
٨	Display the current sewing speed		
A	(200~2700)		
В	Sewing machine speed		
С	Reduce sewing machine speed		

When entering the speed adjustment, if the speed adjustment icon lights up in red, press this button to adjust the speed. If the speed adjustment -----٧

icon does not light up in red, press the select button to adjust.

2.3.2 Pattern Stitch Display



No.	Description		
А	Dimensions in the X direction of the pattern		
В	Dimensions in the Y direction of the pattern		
С	Display the total Stitch of the current pattern (including transfer, trimming, end, code, etc.).		
D	Display the Stitch at the current position (pattern).		
Е	Display the current (needle position) position sewing data data type. As follows: (Sewing "SEW", transfer "FEED", secondary origin "2HP", upper pause "USTP", lower pause "DSTP", thread trimming "TRIM", feed speed "FEDS", restart "ASRT", Platen weight "HEVI", material thickness "ATUM", skip seam "BAT", function 1 "FUN1" ~ function 7 "FUN7", turn over Presser foot "REPF", end "END")		
F	Display the current value/set value of Counter minus.		
G	Display the current value/set value of Counter plus.		

2.3.3 Menu Interface





Click **Click** in the Main interface to enter the Menu Interface.



2.3.4 Graphical Preview Interface

Image: Comparison of Compa

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 \triangleright



Click the pattern display area on the Main interface P1 interface to enter the pattern preview interface

Θ

The first of the second



No.	Description	
А	Pattern name.	
В	Pattern number.	
С	The size of the pattern in the X direction.	
D	The size of the pattern in the Y direction.	
Е	Display the total Stitch of the current pattern (including transfer, trimming, end, code, etc.).	
F	Display the current pattern type.	
G	Enlarge the pattern	
Н	reduce the pattern	
Ι	Display remaining memory space	
J	Exit the current interface and return to the previous screen (return to Main interface)	
K	Display the pattern shape	



2.3.5 Multi-class Directory Interface

Click in the Main interface to enter the multi-class directory interface.



	, A		
No.	Function	Content	
Α	Standard Function Menu Display the function menu interface		
В	Memory Switch Setting Mode (Standard)	Set standard parameter values, [see 2.2.1 for details]	
C	Bottom Count Setting Mode	Set the lower thread count [see 2.3.5.1 for details]	
D	Production Count Setting Mode	Set production count [see 2.3.5.1 for details]	
Е	The Production Count Is Temporarily Displayed When The Speed Light Is On.	In the bottom line counting mode, the production count quantity is temporarily displayed	
F	User Program Setting Mode	This function is used to set U/C pattern [see 2.3.5.2 for details]	
G	Parallel Movement Mode Parallel Movement Mode Start the XY movement of the current pattern at the start position. After entering this mode, use the menu button to move, use the parameter switch button to s movement direction, and click TEST to save and exit. NOTE: This mode can only be in the Ready state frame down to enter.		
Н	Stitch Check Mode		
Ι	Graphical Preview	Enter Graphical Preview Interface, enter Graphical Preview to view the basic information of the current Main interface display graphics.	
J	Function Catalog	Enter the function setting directory interface	

2.3.5.1 Counter Settings



Bottom line count Setting Mode

Press in the Main interface to display the

Menu Interface, press seline count setting mot , and the

counter lights up, it is the bottom line counting mode.

Enter this mode to set the initial value of the bottom line count, use the menu change button to adjust the value, and click the TEST button



NOTE: This mode is not affected by the 300th parameter counter mode. When the Main interface parameter is set to the bottom line count, only the counter button is lit, and when the Main interface parameter is set to the production count, the counter and speed are lit at the same time.

2. Production Count Setting Mode

Press on the Main interface to display the

Menu Interface, press ^{luction count setting m}, and then the

speed lights up and the counter keeps flashing, indicating the production count Setting Mode.

Press

to return to the Main interface.



2.3.5.2 User Program Settings



1. How to enter the U/C pattern setting interface

Click in the Main interface to enter the standard function menu interface, and then click the save switch Setting Mode (Standard), after setting the user parameter No. 400, TEST saves and exits.

2. Set U pattern

Set the No. 400 user parameter to ON, enter the user program Setting Mode, and set the U pattern. Use the menu change button to set the memory pattern of the current U pattern. P1 in the figure is the memory pattern. Use the program change button to modify the U pattern that needs to be set. After the setting is complete, TEST saves and exits.



3. Set C pattern

How to set C pattern: set user parameter 400 and cycle parameter 401 to ON,TEST save and back into this mode, click F01 to switch to C pattern setting, and use menu changes to set the U pattern number of the current C pattern. Use the program change button to modify the C pattern that needs to be set, and TEST exits after the setting is completed.

NOTE: The C pattern is a cyclic pattern composed of multiple U patterns



4. Delete U/C pattern

After entering the user program Setting Mode, use the pattern switch button to select the pattern to be deleted, click the Reset button

RESET, or use the menu change button to delete the pattern, or long press the Reset button to delete all patterns.

Main interface 2023/09/13(Wed) 15:16 CAUTION PROGRAM No. X-SCALE Y Y-SCALE 001 RESET COUNTER 100 -SPLIT No. 115 SELECT 71/间 Standard function menu Memory switch Setting Mode (Standard) User program setting mode **Baseline** count Parallel movement mode setting mode Production count Stitch count check mode setting mode Temporary display of production When SPEED on Sign in 2023/09/13(Wed) 15:13 Main interface PROGRAM No. CAUTION X-SCALE Y Y-SCALE 001 RESE COUNTER 0.00 ฏ SPLIT No. 115 SELECT MIL F04 F01 F03 F05 F06 F07 F08 F09 F10 Parallel movement mode he sewing machine is in the function setting mode. To execute other functions, please press the TEST key to return to the normal mode.

2.3.5.3 Parallel Movement Mode

Click the parallel movement mode on the menu catalog, start the XY movement at the starting position of the seam, enter this mode, use the menu change button to move, use the parameter switch button to choose the direction of movement, and click TEST to save and exit. NOTE: to enter this mode, you must be in the Ready state, and the press box can only be entered now.

This model is affected by parameter 465 (parallel movement memory of sewing patterns).

2.4 Function Catalog



Click in the main interface to enter the function setting directory interface.



No.	Function	Content	
Α	Program	Enter the icon playing board and command playing board interface	
В	Clock	Datetime can be set	
С	File	For details of the settings, see 2.3.5.4	
D	Tool	Enter the function mode, see 2.3.5.2	
Е	Operation	You can set various parameters, please refer to 2.3.6.1 operation setting instructions for details	
F	Edit	You can use the pattern playing interface, please see 2.7	
G	Return key	Click to return to the previous interface	
Ι	OK button	Confirm the current command	

2.4.1 Program Icon Patterning





editing, click the OK button



selection, and click the icon punching button . It will prompt whether to enter the icon punching plate, and then click the OK button to enter the icon punching interface.



2.4.2Program Command Board



To write a program with commands, press and hold the

button

to enter the "Write with Commands"



mode. Press and hold the button the icon writing program.



No.	Function	Content		
А	Absolute X coordinate	The X coordinate of the current coordinate relative to the origin		
В	Absolute Y coordinate	The Y-axis coordinate of the current coordinate relative to the origin		
С	Relative X coordinate	The current needle position is relative to the X-axis coordinate of the previous needle		
D	Relative Y coordinate	The current needle position is relative to the Y-axis coordinate of the previous needle		
Е	End point X coordinate The X coordinate of the current graphics end point			
F	Y coordinate of the end point	The Y coordinate of the current graphics end point		
G	UI	Display the pattern in pattern editing		
Н	Confirm the sewing Confirm the position of the starting point and modify the position of start position			
Ι	Clear button	Clear the pattern being edited		
J	Return button	Exit icon playing board		
K	Main interface	Click this button to return directly to the Main interface		
L	OK button	OK to enter this function		
М	Pattern Management	Import, export, secondary distribution(Including read, stitch read, save function)		

No.	Function	Content	
N	Board parameter settings	Click to enter parameter setting mode	
0	Data traversal	Move the cursor position to use	
Р	Graphic modification	Enter this mode can set various settings such as graphic rotation, overlap, etc.	
	100%	Buttons used to write programs using commands:	

+		10	0%			1
+0.0	0	+0.00	-	0.00	(0.00)	-
0.0		0.00		0.00	(0.00)	€
START	000					Q
7	8	9				~
4	5	6			5	-
	2	3				
0						
Cmd m	ode	1	F	М	С	LI
- 00000/0		Read	S	R	E	L
+)	ជ		-		J

et various settings such as graphic rotation, overlap, et
Buttons used to write programs using commands:
7 8 9 4 5 6 1 2 3 0 Enter a value
Used for moving the needle position
Used for feeding cloth and creating basting
Used for finishing and editing
Delete some data
Use for creating lines or circles
Read Select pattern
Used for saving patterns
Used for canceling an operation
Used for entering an end code
Press this button to set the needle position and can also be used as part of a command
Display command type Display the entered data

00000/00000 Current Stitch Number/Total Stitch



Return to the initial screen

Adjust the size of the displayed picture. Long press this button to switch to Icon mode

2.4.3 Date and Time Settings





Press the date and time setting button in the function menu interface to enter the date and time setting mode.

1. Date setting method:

Click on the "year" in the calendar (here, 2022), and two arrows on the left and right will be displayed for adjusting the size of the year.

Click on the "month" in the calendar (here is March), a selection menu for January to December will pop up, and you can select the appropriate month.

After the year and month are set, the calendar display will be refreshed to display the correct monthly calendar content for that year and month.

It is also possible to query the content of the



Click the date in the calendar to set the date.

[Note] To set the date, click the date in the calendar to set it successfully. Modifying only the year and month is not feasible.



			May	2022			
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
17	- 84	25	28	27	28	29	
18	1	2	3	4	5	6	7
19	8	9	10	11	12	13	14
20	15	16	17	18	19	20	21
21	22	23	24	25	26	27	28
22	29	30	31	111	Z	3	4

2. Time setting method:

By default, when entering this interface, the hour is set first. Use the "hour" button to switch to setting the minute (the "hour" button will display the content will change to "minute" at this time), and then use the left and right arrows to modify the content.

Or click the hour or minute display area to switch the hour/minute modification method.

After modifying the date or time, press the



2.4.4 File Management



No.	Function	Content
А	Pattern preview list	Display the list of saved patterns
		[Note 1] If the VDT (all formats except NSP) pattern is selected, a prompt
		message will be displayed to convert the pattern format.
		[Note 2] If the number of selected patterns is out of range or the data is
		corrupted, a message is displayed (the pattern cannot be selected). (Caution
		light indicates that there is a problem with the pattern)
В	Pattern number name	Display the saved pattern name and number.
C	Return button	Return to Main interface
D	Show graphic buttons	After selecting the graphic, click the Display Graphics button to display the
D		currently selected graphic.
E	SEW format save path selection keys	Export pattern format selection, default is SEW format. Select the path to
		which the pattern is exported to the USB flash drive. The default path is the
		root directory
F	Sort button	Redisplay the pattern list according to modification time or sorting by number
G	Previous page button	Turn the page forward
Н	Page number display	Display Content as current page number/total number of pages
Ι	Next button	Turn the page backwards
J	All	Select all patterns
V	Calast hyster	When there is a prohibited symbol above, only one pattern can be selected,
K	Select button	and when there is no prohibited symbol above, multiple patterns can be

No.	Function	Content
		selected.
L	U disk/memory memory selection	Select the Read Memory or USB Flash Drive pattern
М	Enter	Confirm the operation and enter the Function selection interface.

2.4.5 Pattern Management Operation Description



1. Enter the Pattern Management interface

Operate the directory button on the Main interface, that is, open the multi-type directory mode,

and then click File Management to enter the Pattern Management interface.

B USB pattern (U disk:/mnt/hg	fs/share/udisk/DH_PAT/
2022_0703bak	
(b)	
001@DATA.NSP	
001@韩国1.NSP	
002@DATA.NSP	
002@韩国1大头.NSf	
003@DATA.NSP	
003@NEW.NSP	
003@NEW456789azsdf	
003@NEW456789azsdf 문 USB pattern (U disk:/mnt/hg	fs/share/udisk/DH_PAT
USB pattern (U disk:/mnt/hg	fs/share/udisk/DH_PAT.
USB pattern (U disk:/mnt/hg	fs/share/udisk/DH_PAT.
003@NEW456789azsdf	fs/share/udisk/DH_PAT.
003@NEW456789azsdf USB pattern (U disk:/mnt/hg 式022_0705trat 001@DATA.NSP 001@韩国1.NSP	fs/share/udisk/DH_PAT.
003@NEW456789azsdf USB pattern (U disk:/mnt/hg 2072_0705hak 001@DATA.NSP 001@韩国1.NSP 002@DATA.NSP	fs/share/udisk/DH_PAT.
003@NEW456789azsdf ■ USB pattern (U disk:/mnt/hg 2022_07056ab 001@DATA.NSP 001@韩国1.NSP 002@ATA.NSP	
003@NEW456789azsdf USB pattern (U disk:/mnt/hg 2022_07070ak 001@DATA.NSP 001@韩国1.NSP 002@DATA.NSP 002@韩国1大头.NS	rfs/share/udisk/DH_PATJ
003@NEW456789azsdf USB pattern (U disk:/mnt/hg 2072_0705hak です 001@DATA.NSP 001@韩国1.NSP 002@DATA.NSP 002@韩国1大头.NS 003@DATA.NSP	rfs/share/udisk/DH_PAT.

2. Select the object to read (memory/U disk)

To enter the interface, the memory read mode is selected by default (see figure). Switch to the U disk read mode through the switch button, and the U disk read mode interface is shown in the following figure.

[NOTE] when performing the above operation when the USB disk is not inserted, the message "USB disk has been unplugged" will be displayed.

3. Select the drawing number and confirm

Select the drawing number to be sewn and then press the OK button. After successful selection, it will directly return to the Main interface. (pressing the OK button will bring up the function buttons)

[Note] If the selected number also exists in the memory when reading the pattern from the U disk, the prompt message "Whether to overwrite the pattern data in the memory" will be displayed, and you can operate according to the specified information.

4. Other operations

If there are many designs, use the page button



to browse the screen, and use the sort button

to view the list of designs more intuitively.



No.	Function	Content	
		The selected pattern can be copied, click the copy button and then click the	
А	Copy To U Disk	OK button to copy the pattern to the U disk.	
		The selected design can be cut, click the cut button and then click the OK	
В	Cut To U Disk	button violation to cut the design to the U disk.	
С	Save Key	Save the pattern to the U disk, please refer to 3.4.4 for details	
D	Delete Key	Delete Key Delete the selected pattern, please refer to 3.4.2 for details	
Е	Open In Program	Click the icon to enter the icon printing interface	
Б	Souring	After selecting the pattern, click the icon and confirm to enter the Main	
Г	Sewing	interface to sew the currently selected pattern	
G	Modify Graphics The selected pattern can be modified		
п	Convert Crophics	The selected pattern can be converted, there are various conversion buttons in	
Н	Convert Graphics	the interface	
Ι	Return Key	Return to the previous interface	
Κ	Enter	Confirm to enter the current mode	



2.4.6 Pattern Copy



When copying the pattern, you need to select the pattern to modify first, then click the OK button

to enter the Function selection, click the copy

, then the modification button will pattern button. turn blue. Then, click the OK button to copy the selected pattern to the U disk.

[Note]: The exportew/vdt format can be set by operating the B-6 parameters (export other formats), which is stored in the root directory of the U disk by default.

2.4.7 Pattern Shearing



When cutting the pattern, first select the pattern

to

to be modified, and then click the OK button enter the Function selection, click the pattern shearing

button , the modifier button will turn blue, and then click the OK button to cut the selected pattern to the U disk.

2.4.8 Save Pattern As



2022/07/05(Tue) 10:43 Name: DATA Number: 101 Clea << >> En Backspace 0 2 9 1 3 4 5 6 7 8 0 q W e t u р а d k g h b m Caps C V keep the same number pattern

When saving the pattern, first select the pattern to

be modified, then click the OK button to enter the Function selection, click the Save Pattern button

, the modification button will turn blue, and then click the OK button to save the selected pattern as sewing format NSP.



No.	Function	Content
Α	Pattern name input display	Display the entered pattern name.
В	Pattern number input display	Display the pattern number entered.
С	Memory remaining function	Check the amount of memory left
D	Display storage location	: The storage location is memory : The storage location is U disk
Е	Input keyboard	Used to enter a name or number.
F	OK button	Save the current settings and exit to the previous interface
G	Display Memory Content	Display memory content
Н	Select Memory/U Disk	Select read memory or U disk pattern, switch to choose U disk or memory
I	Keep the same number pattern	 ✓ 保留同号花样 :Select Keep the same number pattern to save the same pattern but different pattern numbers ■ tep INSERVE rounder pattern : Do not select Keep the same number pattern
J	Clear all input characters	Clears all entered characters when pressed.
K	Return button	Return to the previous interface

2.4.9 Pattern Delete



When deleting a pattern, first select the pattern to

be deleted, then click the OK button



the Function selection, click the delete button to delete the selected pattern. NOTE: The current sewing pattern cannot be deleted.

Memory pattern (U disk:/mnt/hgfs/share/udisk/DH, Memory pattern (U disk:/mnt/hgfs/share/udisk/DH

When opening a pattern in another program, first

select the pattern, then click the OK button to enter Function selection, click the program button

, the program button will turn blue, and then click the OK button to enter another program.





2.4.10 Open the Pattern in Another Program

2.4.11 Sewing Pattern



When sewing a pattern, first select the pattern to



select , at this time the car seam key will turn blue, and then click the confirm key will enter the car seam interface.

be sewn, then click the confirm button

Enter the sewing interface, you can sew patterns.



2.4.12 Modify the Pattern



 Modify mode
 2023/09/13(Wed) 15:24

 Image: Constraint of the system of the sys

When modifying a pattern, first select the pattern

to be modified, then click the OK button and the back-to-origin button to enter the Function

selection, click the modifier button , then the modifier button will turn blue, and then click the confirm button to modify the selected pattern.

Enter Modify mode to modify various functions. For details.



No.	Description		
А	Modify sewing data		
В	Modify sewing machine speed		
С	Modify the input code		
D	Modify outline shape points		
Е	Modify the starting point		
F	Delete a point		
G	Insert a point		
Н	Move a point in a line segment		
Ι	A line segment can be moved in a graph		
J	Modify a segment in a graph		
K	Insert a segment in a drawing		
L	Modify Pitch		
М	Second origin position modification		
N	laser cutting		
Ο	Modify material thickness		
Р	Return to main directory		
Q	Parameter settings		
R	Enter		

2.4.13 Modify the Input Code







Click the button **to** enter the interface of modifying the input code. There are the following functions to choose from. For details, please refer to the pattern-making manual**







Delete the code



Modify the code



Knee point deceleration

2.4.14 Modify Outline Shape Points



Click the button to enter the interface of modifying contour points, and the following functions can be selected. For details, please refer to the version description**



Move shape points



Delete shape points



Add shape points

Sharp and smooth





 Modify mode
 2022/07/05(Tue) 10:

 Image: Constraint of the state point
 Image: Constraint of the state point

 X+: 19.90
 X-: -20.00
 Y+: 0.00
 Y-: -39.90

 X+: 19.90
 X-: -20.00
 Y+: 0.00
 Y-: -39.90

 Stitch: 46
 Image: Constraint of the state point
 Image: Constraint of the state point
 Image: Constraint of the state point

 Move shape point
 Image: Constraint of the state point
 Image: Constraint of the state point
 Image: Constraint of the state point

 Image: Constraint of the state point
 Image: Constraint of the state point
 Image: Constraint of the state point
 Image: Constraint of the state point

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 Image: Constraint of the state point

 Image: Constraint of the state point
 Image: Constrate point
 Image: Constraint of the state point
2.4.15 Conversion Mode



Pattern convert mode2023/09/13(Wed) 15:31VV<td

When converting a pattern, you need to select the pattern to be converted first, then click the

OK button in and the Origin button to enter the Function selection, click the shift button

, the shift button will turn blue, and then click the OK button to modify the selected pattern. .

Entering the conversion mode, various functional modifications can be made. For details, please refer to ** (playing board)

2.4.16 Supported Data Formats

Currently, the imported pattern formats are: NSP format, VDT format, EMB format, DST format, DSB format, DSZ format, SEW format.

2.5 Function Mode



Operate the function catalog button in the Main interface to open the function catalog

mode, and then press the tool button is to display a variety of function tools, that is, enter the function Setting Mode.

Function setting interface:



Function Description:

No.	Function	Content
А	Panel Setting	Query the system software version.
В	Update	Enter software upgrade mode.
С	Parameter record	Mechanical parameter setting status preview
D	Error Note	Backlight, keylock, brightness and other display settings are available.
Б	Varsian	Users can edit this shortcut according to their favorite functions, which is
E	version	displayed on the main page for easy user operation.
F	Legend	
G	Password	Provide user installment password function.
Н	Backup/Recov.	The parameter settings are saved to a USB stick for future restore operations.
Ι	Fuc.Shortcut	View alarm statistics.
J	Run Note	View operational statistics
K	Default Para.	Provides recovery of default parameters and custom read-write capabilities.
L	Para.Conflg	System parameters and TD system parameters can be set
М	TD-Para.	Master parameters can be read
N	Para.Update	The password is set for each action entry in parameter mode.
0	Detection	You can detect whether the parts are functioning properly
Р	Return	Click Back to the parent page
Q	Main interface	Click back to the main interface
R	Confirm key	Confirm that the command is executed

2.5.1 Software Version Query Mode

Software v	ersion mode 2023/08/29(Tue) 15:15		
Panel:	6T41X-KD-A-v1.0.1184(20230828)-P		
Main-Control:			
Main-Motor:	MM-		
S-Motor-1:	MD1-		
S-Motor-2	MD2-		
Fs:	FS-v		
Os:	OS-v-Pro-SG		
Firmware versio	FW-v0		
×	*		

Press the version query button in the function setting interface to enter the version query mode.

Press the button to export the software version to the root directory of the U disk, the file name is version.png.

2.5.2 Software Version





The upgrade software needs to be placed in the "update" directory of the U disk.



First,	click	the	[Sele	ct Directe	ory] bi	itton
elect directo	to s	alaat	tha	diractory	whore	tha

to select the directory where the software to be upgraded is located.

📕 Update program ar	nd correla 2023/0	8/29(Tue) 15:16
U disk upgrade path: up	pdate directory	
		×.
· · · · · · · · · · · · · · · · · · ·		
Directory Detail	Version	Screen
	All	\sim
~		
~		

After selecting it, click the OK button to return to the software upgrade interface and display all the upgradeable software information in the directory.

grade 2023/08/29(Tue) 15:1
Main-control file ———
mControl 66
incontroi_ou
mControlPara_6G
Dsp2StepPara_6G
Dsp2StepCurve_6G
Dsp3StepPara_6G
Dsp3StepCurve_6G
Dsp4StepPara_6G
Dsp4StepCurve_6G
inout.sp
لــ

Then click the [Detailed Settings] button

Click the confirm button to return to the software upgrade interface, press the confirm button again to upgrade the corresponding software.



Software ve	rsion mode 2023/08/29(Tue) 15:15			
Panel:	6T41X-KD-A-v1.0.1184(20230828)-P			
Main-Control:				
Main-Motor:	MM-			
S-Motor-1:	MD1-			
S-Motor-2	MD2-			
Fs:	FS-v			
Os:	OS-v-Pro-SG			
Firmware version	FW-v0			
×	+			

2.5.3 Panel Settings

Display settings	2023/08/29(Tue) 15:19
Back-Light auto Off	Valid
Touch key lock	Valid
Sound setting	Valid
Boot waiting interface	On Off
<u>5</u>	

press the panel setting button in the function setting interface to enter the display Setting Mode, and some settings related to display and operation can be adjusted in this interface.

Display s	ettings	2023/	'08/29(Tue) 15:1
Back-Light au	uto Off	Valid	Invalid
Touch key loo	:k	Valid	Invalid
Sound setting	g	Valid	Invalid
Boot waiting	interface	On	Off
5	合	Ì	

1. Automatically turn off the backlight When the set time is up, the screen backlight will be turned off automatically

Set range: 1:9 minutes

Factory set value: "disabled"

Release method: when the backlight is off, just click anywhere on the panel to light up the screen.



Release button lock

When the unlock button lock is "valid", it will enter the state of preventing misoperation, all buttons will be inactive state (displayed in

gray), and the OK button will directly return to Main interface P1 after operation.

Factory setting: "Disabled"

Release method: Press and hold the time display on the Main interface for more than 5 seconds, and wait for the "beep" sound to complete the release. (After the release, the release button lock function will be set to "Disabled")

Main interface speed setting method

Divided into two categories: gear and true value, factory setting: "Gear"

Main interface pattern display setting Setting range: 0~6 (0: black, 1: cyan, 2: red,

3: green, 4: blue, 5: purple, 6: yellow) Factory setting: 0: Black Adjust LED light brightness Adjustment range: 0~100 Factory setting: 50

2.5.4 Function Shortcut Buttons



The shortcut button function is used to set the four function buttons of Main interface, and users can set common function buttons by themselves.

Set function shortcuts

Press

to enter the function setting

directory, find the tool it to enter, and then click the function shortcut button to enter the shortcut button setting mode.

The shortcut buttons include functions such as test thread trimming, XY Origin Detection, start, RFID, segment movement, human child sewing pattern, move to the starting point, letter embroidery, starting point modification, frame pressing, graphic zoom, needle machine up and down, back button pattern, origin, jump, and quick modification; four shortcut buttons can be arbitrarily Selection in the shortcut button content.

🛢 Shortcu	t setting	2023/08/3	0(Wed) 10:04
Func. Sho	ortcut	Off	-
Shortcut k	ey content —		
20	Test Trim		
X	Pattern Scale		
	Jump		
*	X/Y origin de	tection	
		_	
×		//	



Function Description:

No.	Function	Content
		Click the test thread trimming button when the pattern number of the Main
A	Test Trim	interface is not flashing, and the thread trimming action will be executed at this
		time.
D	VV Origin Detection	Check the position of the XY sensor by moving the arrow buttons to confirm
D	A 1 Origin Detection	whether the sensor is normal
C	Dun	Click the start button when the pattern number on the Main interface does not
C	Kull	flash, and then start sewing.
D	DEID	Click this function to enter the RFID Settings interface. For details of the
	KFID	function, please refer to 2.2.11
E	Move Black	Modify the position of any pattern
		Set Click to enter the pattern setting of the herringbone stitching template. After
F	Zigzag pattern	setting the applicable parameters, click the tick button to pop up the prompt
		module, click the error button to save and exit.
G	Move to start point	The frame moves to the seam start position
Н	letter	Enter the interface of letter embroidery and pattern making
Ι	Modify Start Pos.	Modify the seam start position
J	Clamp	control frame lifting
K	Pattern Scale	Make the pattern zoom in and zoom out settings
L	Needle up or down	Adjusting the current needle position
м	De de la contra contra	Generate the back button pattern, click to enter the value setting interface, after
M	Back buckle pattern	setting the parameters, click the Enter button to save the pattern at this time

N	Origin	Click the origin button to return to the origin
0	Jump	Jump to specify Stitch
Р	Quick modification	Enter pattern making, pattern modification and conversion mode
Q	Shortcut parameter	You can customize the parameters on the parameter setting screen. You can
	Shortcut parameter.	open the shortcut parameters and use the selected parameters directly
R	Pause setting	Pause setting
S	Tension setting	Tension setting
Т	Open-pocket design	Open-pocket design
U	Automatic shuttle	Automatic shuttle show as
	change	Automatic snuttle change



After opening the function shortcut button, return to the Main interface. The icon of the shortcut button is displayed on the Main interface.

Convert/Scale m	ethod 2023/	08/30(Wed) 10:06
Method	Needles fixed	Pitch fixed
X-Proportion	100.0%	20.0
(1.0%~400.0%)	100.0%	33.5
Y-Proportion	100.0%	39.9
(1.0%~400.0%)	100.070	
Center set	2	!
7 4 1 0	89 56 23 +-	
X	C	Ļ

1. Graphic zoom shortcut buttons



button to enter the graphics zoom interface. This interface is used to set input method, horizontal ratio, vertical ratio and set center point. After setting, click OK button



NOTE: Save can be overwritten, overwriting the previous parameters;

It is also possible to save a new document and exit without saving.





2. Jump to the specified Stitch

Click the button to move forward and back in a single step, set the number of needles through the number key, click the button to determine the direction of the appropriate action. Press the button to directly jump to the sewing position of the previous section/next section, and directly jump to the location of the next/previous function code.

3. XY Origin Detection

Click the XY Origin Detection shortcut in the Main interface to enter the XY Origin Detection interface. For details, see [3.7.5 XY Origin Detection]

2.5.5 Instalment Password Function



Press	the	button		in	the	function	setting
interfa	ice to	o enter th	ne func	tion	mod	e interface	e. Click

the button to import the password, please contact the manufacturer for details.





2.5.6 Restore Backup Mode

Recovery/Backup paramete 2023/08/30(Wed) 10:03
Backup parameter
Restore parameters
Save user defaults
Clear user defaults
Restore settings (not restored)
Counter
Zero position angle of main motor
XY origin offset
Change language

Press the restore and save button in the function setting interface to enter the restore and save mode.

Save the changed parameter settings to the U disk for subsequent restoration operations.

For details, please refer to [3.6.4 Parameter Restoration and Saving] section.

2.5.7 Alarm Record Mode



Press the alarm record button function mode to open the alarm record.



2.5.8 Alarm Record Mode



Press the alarm recording button in the function setting interface to enter the alarm recording mode.

The alarm content recently occurred in the system is displayed in the alarm recording mode, and the smaller the sequence number is, the newer the time of occurrence of the alarm information is.





After pressing the number button , the error message and solution will be displayed.



1

Press the "Data Statistics View" button enter the alarm record statistics interface.

2.5.9 Operation Record Mode



Power on/off time notes On-Time(On)2022-07-05 10:16 On-Time(On)2022-07-05 09:49 On-Time(On)2022-07-05 09:46 On-Time(On)2022-07-05 09:18 4 On-Time(On)2022-07-05 08:54 On-Time(On)2022-07-05 08:38 6 On-Time(On)2022-07-04 17:11 On-Time(On)2022-07-04 16:48 On-Time(On)2022-06-30 13:16 9 On-Time(On)2022-06-29 10:33 10 On-Time(On)2022-06-27 09:35 On-Time(On)2022-06-25 10:22 001/042 In the function directory interface, enter the tool

and press the operation record button

Run Note, and it will ask to enter the manufacturer ID. After the input is correct, the operation record mode can be entered.

A. Cumulative running time: record the total sewing time of the machine

B. Cumulative sewing pieces: record the total number of sewing patterns

C. Cumulative Power Time: Record the sum of machine Power time

D. Cumulative sewing count: record the sum of machine sewing Stitch

In addition, click the "Clear" button to clear the count value.

[NOTE] If the accumulated number of sewing pieces is cleared, the "cumulative count" in the auxiliary information column of the Main interface will also be cleared to zero.

Press the [On Time] button in the

operation record mode interface to view the list of historical start times.

Use the page button





and click the clear button to delete the boot record.

2.5.10 Description of Detection Mode





and then press the detection function button to enter the detection mode.

NOTE: Power-on standby mode can also be used in detection mode

Function Description:



No.	Function	Content
А	LCD detection	Used to detect liquid crystal displays. [For details, see 2.2.6]
р	Input signal	Used to detect various types of switches, sensors and other
D	input signal	input signals. [For details, see 2.2.4]
C	Output signal	Used to detect various types of Presser foot, thread trimming
C	Output signal	and other output signals. [For details, see 2.2.5]
D	Speed detection	Used to detect the spindle motor speed. [For details, see
D	speed detection	2.2.7]
Б	VV Origin	Used to detect the origin of the X and Y axes. [For details, see
E	A i Origin	2.2.9]
Б	Spindle colibration	Used to display and set the installation angle of the spindle
Г	Spindle canoration	motor. [For details, see 2.2.10]
G	Mid-Presser detection	Used to detect Middle Presser foot [see 2.2.8 for details]
Н	RFID	Used to set up RFID [see 2.2.11 for details]
Ι	Wireless module	Used for wireless module 2 detection.
J	Multi IO	Multifunctional IO
K	Exit	Exit detection mode and return to the Main interface.

2.6 Operation Setting Instructions

The operation setting is mainly used to set each parameter. For the description of each parameter, please refer to [3.6.6 Parameter Setting Table].

2023/09/13(Wed) 14:38 CAUTION PROGRAM No. X-SCALE Y Y-SCALE 001 RESE COUNTER 100 SPLIT No. SELECT 11/1 F03 F08 F10 001 DATA (H) 39.90 39.80 (T) 00046 00000 FEED 09999 00000

2.6.1 Operation Settings

1. How to enter the operation setting:

Enter the display function menu button in the Main interface, that is, open the

function setting menu mode, and then press the

operation setting button

8	Program mode	2023/08/29(Tue) 15:29
	Mechanical	Other
	LCD Screen	Editting settings
	Maintenance	Counter
>	Modified	Shortcut para.

E Progra	am mode	2023/08/29(Tue) 15:29
Me	echanical	Other
LC	D Screen	Editting settings
Ma	intenance	Counter
×	Modified	Shortcut para.

Select the parameter type as shown in the figure.

3. Example Description:

A. Mode selection

Press the button to select the parameter item to be set, and the "Internal parameter setting screen" will be displayed. The "LCD screen" button is selected here.



B-3 So	und volun	ne of butto	nc	
		Range:0	7	
Sound vo	olume of b	outton	- 51	
	[7 8	9	
	Ľ	4 5	6	
		1 2	3	
			ل	
	C	lr		
V				
2.5				

B. Internal parameter setting screen

Pressing the button to select the parameter to be set displays the "setting value change screen". (The "B-3" button was pressed here.)

C. Change parameter settings

After inputting the setting value and changing the setting Content of the parameter, press the OK button to confirm.

NOTE: The parameters can be changed freely within the displayed range, and the parameter values cannot be set outside the range.

Setting mode <lcd p="" screen<=""></lcd>	1> 2023/08/29(Tue) 15:31
B-1 Change language	
Sound setting	
B-2 ON (ON)	
B-3 Sound volume of	button
B-5 DXF file conversio	on method
B-6 Export to other fo	ormats
B-7 B-7 2 (Panel voice + alarm	ng
B-9 OFF (Disable auto off)	ff set
B-10 Wait time of back	-light auto off
B-12 Button display sty ICN (Icon)	yle of modification and
Custom	01/02
Program mode	2023/08/29(Tue) 15:29
Program mode	2023/08/29(Tue) 15:29
Program mode	2023/08/29(Tue) 15:29 Other
Program mode	2023/08/29(Tue) 15:29 Other
Program mode Mechanical LCD Screen	2023/08/29(Tue) 15:29 Other Editting settings
Program mode Mechanical LCD Screen	2023/08/29(Tue) 15:29 Other Editting settings
Program mode Mechanical LCD Screen Maintenance	2023/08/29(Tue) 15:29 Other Editting settings Counter

D. Changed parameter setpoint check

Return to the "Internal parameter setting" screen. To check the changed settings, Press the Exit button to leave.

E. Return to the mode selection screen

Return to the "Mode Selection" screen. Because the setting value has been modified, the "Modified Setting" button will appear.

Press the button to return to the Main interface.

To view the "Modified Settings" content, please click the "Modified Settings" button.



F. Enter the modified parameter Setting Mode

The content of the parameter changes will be displayed in this interface. To change again, change it again in this interface (here you can press the "B-3" button).

To select some modified parameters to restore, you can choose to press the button marked with the parameter name (here you can press the "foot pedal operation mode"). Then press the "Select Restore" button, and then follow the prompt information Content to operate.

To restore all the changed settings to the factory settings, please press the "Restore All" button, and then follow the prompt message Content to operate.

2.6.2 Description of Parameter Setting Classification

There are two types of parameter settings: selection type and input type, as shown in the following figure:

🖶 Pr	ogram mode <value 08="" 15:31<="" 2023="" 29(tue)="" modifi="" th=""></value>
B-1	Change language 01/03
CH	中文
EN	English
Bu	Burmese
KR	한국어
ТК	Turkish
×	

Selection type



Input type

2.6.3 Restore and save parameters



Save the changed parameter settings to the U disk for subsequent restoration operations.

1. Enter the method of parameter restoration and saving:

Display the function catalog button

in the Main interface, that is, open the multi-category catalog mode, and then press

1

the tool button *is* to enter the function mode.

Press the restore button in the function mode interface.



Function mode	2023/08/29(Tue) 15:38
X X	
Panel Setting	Update
Parameter record	Error Note
Version	Legend
Password	Backup/Recov.
5 î	┙┙

	Backup para	rameter	
	Restore par	ameters	
	Save user o	defaults	
	Clear user (defaults	
- Restore s Ma	ettings (not resto intenance	red)	
Con Zer XY	unter ro position angle o origin offset	of main motor	
Chi			

2. Save parameters

Enters the restore backup parameter interface, which is backup user parameters by default.

After inserting the U disk, press the OK



Once the operation is successful, a "bakParam" directory will be automatically created on the U disk, and the "backup. broparam" file in this directory is the parameter backup file.

[NOTE]If there is a file with the same file name, it will be overwritten with new data, and the original data will disappear.

Rec	overy/Backup parameter 2023/08/29(Tue) 15:38
	Backup parameter
	Restore parameters
	Save user defaults
ſ	Clear user defaults
	Advintemance Counter Gero position angle of main motor
	(Y origin offset Change language
1	
🛢 Rec	overy/Backup parameter 2023/08/29(Tue) 15:38

Restore parameters Save user defaults Clear user defaults tore settings (not restored) Maintenance Counter
Save user defaults Clear user defaults tore settings (not restored) Maintenance Counter
Clear user defaults tore settings (not restored) Maintenance Counter
ore settings (not restored) Maintenance Counter
Zero position angle of main motor XY origin offset Change language

3. Restore parameters

Click the "Restore Mode" button, you can select the parameters not to be restored at the bottom of the interface, and then press the OK

button to execute the parameter restoration operation, and return to the previous screen after the operation is successful.

4. Write user default values

Select the "Write user default value" button, press the OK button , the system will prompt to enter the permission 2 password, and you can use the current parameter value as the default value for parameter recovery after the input is successful.

(The permission password is obtained from the administrator)

Recovery/Backup parameter 2023/08/29(Tue) 15:38
Backup parameter
Restore parameters
Save user defaults
Clear user defaults
Restore settings (not restored) Maintenance
Counter
Zero position angle of main motor
XY origin offset
Change language

5. Clear user defaults

After the user default value is successfully written, the "Clear User Default Value" button is optional. After selecting it, press the OK

button to clear the user default value.

2.6.4 Restore Default Parameters

The parameter setting value is restored to the factory value, and the user can also save the parameters set by themselves for future calls.



1. How to enter the default parameter recovery method:

Display the function catalog button on the Main interface to open the multi-category catalog

mode, and then press the tool button to enter the function mode.





🛢 Default parameter	2023/08/30(Wed) 09:50
T1310	NG_PARAN
T2210	NGJARAM
T2210F1	NO PARAM
T2210F3	NO, PARAM
T3020	NO_PARAM
6040	NO PARAM
NG PARAM	NO MARAM
NGPARAM	NO PARAM
NO PARAM	MASAY EN
Name	Sync
	ault User Restore

Pressing the default parameter button in the function setting interface will require you to enter a password (the initial password is the manufacturer ID). When the password is entered correctly, enter the default parameter mode.

2. Call default parameters

Click the corresponding default parameter item and press the "Model Default" button to reload the corresponding default parameter.

After loading, it will automatically return to the previous screen.

[NOTE] Some important parameters (such as "Spindle Motor Parking Angle", etc.) cannot be restored to factory defaults during this operation.

🛢 User parameter	2023/08/30(Wed) 09:51		
	User parameter10(None)		
User parameter02(None)			
User parameter03(None)	User parameter12(None)		
User parameter04(None)	المتابعة أحار		
User parameter05(None)	User parameter14(None)		
User parameter06(None)	User parameter15(None)		
User parameter07(None)	User parameter16(None)		
User parameter08(None)	User parameter17(None)		
User parameter09(None)	User parameter18(None)		
Name	ear Sync		
Save Defau	ult User Restore		

🛢 User parameter	2023/08/30(Wed) 09:51
- territori	User parameter10(None)
User parameter02(None)	
User parameter03(None)	User parameter12(None)
User parameter04(None)	والالأراجي متعر إحدا
User parameter05(None)	User parameter14(None)
User parameter06(None)	User parameter15(None)
User parameter07(None)	User parameter16(None)
User parameter08(None)	User parameter17(None)
User parameter09(None)	User parameter18(None)
Name	lear
Save Defa	ult User Restore

3. Save user parameters

Press the "Custom" button to enter the custom parameter setting interface, where the user can save the set parameters.

Press any one of these buttons

User parameter02(None)<mark>~</mark>User parameter18(None)<mark>to</mark>

determine where the parameters are saved, and then click the button to save. Rename and clear custom parameters.

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

4. Call the user to save the parameters

The method of entering this interface is the same as above. Observe that the "custom parameter xx (yes/no)" button displays Content, if the parentheses display "yes", it means that user parameters are stored in this position. Click this button, and then press the button to reload the corresponding parameter setting value. After the operation is successful, it needs to be restarted.

2.6.5 Parameter Setting Table

Mechanical Parameters

Code	Description	Details	Unit	Step	Range	Factory Default	Туре
001	Presser foot rise time after sewing	Presser foot rise time after sewing			OFF: Raise at the end position of the needle ON: Move to the sewing start point and rise	1	Selec tion
002	Lowering left and right separation presser foot (pneumatic)	Left and right separation Presser foot lowering action			0: Left and right Presser feet descend at the same time 1: Presser foot descends first left and then right 2: Presser foot descends right and then left	0	Selec tion
003	Clamp lowering action (Motor)	Motor press frame to simulate pedal control mode			0: Simulate descending (Presser foot descends in proportion to the pedal stepping amount, and starts after all stepping on it) 1:1 gear down (down when the pedal is stepped into the 1st gear, start after the 2nd gear) 2: 2nd gear down (the pedal stops in the middle after the 1st gear, and starts after the 2nd gear is stepped down)	2	Selec
050	Work mode of presser foot	Presser foot working mode			 Standard single pedal, Presser foot automatically rises the seam The single pedal does not rise, the Presser foot rises due to the stepping of the foot switch Standard double pedals, the Presser foot automatically rises, and 	2	Selec tion

		the Presser foot falls	
		due to the pressing of	
		the Presser foot switch,	
		the left and right order	
		can be changed with the	
		storage switch NO.002	
		4: When the double	
		pedals do not rise, the	
		Presser foot rises during	
		the pressing of the	
		Presser foot switch.	
		5: Left and right Presser	
		foot The 2-stage	
		Presser foot of the	
		intermittent Presser	
		foot, press the Presser	
		foot switch to step into	
		the first gear, the left	
		and right Presser foot,	
		when stepping into the	
		second gear, the order	
		of the intermittent	
		Presser foot descends	
		(rises at the same time)	
		6: The left and right	
		alternating 2-stage	
		Presser foot, the left and	
		right sequence of the	
		2-stage Presser foot	
		action can be	
		interchanged every time	
		the sewing is started,	
		from right to left when	
		starting	
		7: Forward/reverse	
		pedal, when the start	
		switch is stepped in,	
		press the Presser foot	
		down-sewing machine	
		to start the sequence to	
		control the forward,	
		when the Presser foot	
		switch is stepped in, it	
		will rise in the opposite	
		order, and the left and	
		right order can be used	

	for Memory switch						
	NO.002 to change						
	8: Based on the						
	two-stage Presser foot						
	that is stepped in twice,						
	in the case of						
	electromagnetic						
	specification (single						
	pedal), when the foot						
	switch is stepped in.						
	Press the Presser foot to						
	stop at the middle						
	positionPresser foot						
	descendsthe sequence						
	of sewing machine						
	start-up is controlled to						
	move forward, and the						
	Presser foot rises when						
	the foot switch is						
	retracted						
	9: Standard triple pedal.						
	electromagnetic						
	specification, presser						
	foot stops at the middle						
	position when stepping						
	on the left pedal,						
	presser foot descends						
	when the pedal (center)						
	is pressed, and the						
	sewing machine starts						
	when the pedal (right)						
	is activated. For						
	pneumatic						
	specifications, the left						
	and right pedals (center)						
	control the up and down						
	movements of the left						
	Presser foot and the						
	right Presser foot,						
	respectively.						
	10: For triple pedals						
	with Origin Detection,						
	use the right pedal						
	(center) exclusively for						
	Origin Detection, use						
	the left pedal for the up						
					and down movements of the left and right Presser feet, and use the start pedal (right) to start the sewing machine 11: For the special triple pedal Origin Detection, use the right pedal (center) exclusively for Origin Detection, use the left pedal for the up and down movements of the left Presser foot, step on the start pedal (right), and start the sewing machine after the right Presser foot is lowered 12.Double pedal quick		
-----	---	---	----	---	--	-----	---------------
051	Clamp action before origin detection	Whether the front pressure plate of Origin Detection is allowed to move			single step start mode OFF: Before Origin Detection, the up and down movements of the Presser foot cannot be performed ON: Before Origin Detection, the up and down movements of the Presser foot can be performed	1	Selec tion
052	Presser foot movement during the seam break program	Presser foot movement during the seam break program			0:Presser foot automatically rises 1: Step into the foot switch, Presser foot rises 2:Function code decision	0	Selec tion
053	Delay time after intermediate presser up	Delay time to prevent clliding with mold in movement	ms	1	0~999	100	Input
054	Intermittent Presser foot fall time	Intermittent Presser foot fall tim			0: The lowering is linked with the Presser foot switch, but does not lower at the feed	0	Selec tion

				retreat position		
				1: Link down through		
				the Presser foot switch		
				2: Presser foot switch is		
				not interlocked, it		
				descends when sewing		
				starts		
				0: disabled		
				1: The valve output of		
	D			the pneumatic		
	Pneumatic	Pneumatic		specification is reversed		
	pressure	pressure frame		2: Since the two		Selec
055	frame output	output polarity		positioning valves are	0	tion
	polarity	reversal		corresponding, the		
	reversal			output of the reverse		
				valve is output at the		
				same time		
	Whether			Sume time		
	winding is	Whether winding				
056	allowed	is allowed before		OFF: Can not be wound	0	Selec
030	h of one onigin	is allowed before		ON: can be wound	0	tion
		origin detection				
	D					
	Presser foot	Presser foot		OFF: Presser foot is		
	movement	movement		pressed down after		
	when the	when the sewing		returning to the origin		Selec
057	sewing start	start point moves		ON: Presser foot lifts	1	tion
	point moves	after Origin		up after returning to		
	after Origin	Detection		origin		
	Detection					
				OFF: The platen is		
	Presser foot			automatically lifted		
	movement at	Presser foot		after sewing is		Selec
058	the end of	movement at the		completed	0	tion
	covving	end of sewing		ON: The platen does		tion
	sewing			not lift up after sewing		
				is completed		
	Claure mainly	Claure mainly		-1: light		C - 1
059	Clamp weight	Clamp weight		0: Standard	0	Selec
	selection	selection		1: heavy		tion
				OFF: The speed of 1~5		
				stitches at the start of		
				sewing depends on the		
100	Sewing start	Sewing start		setting of Memory	0	Selec
100	speed	speed speed		switch No 151~155	, in the second s	tion
				ON· 1st stitch 400rnm		
				2nd stitch Annorm 2rd		
		1		2nd sulon +001pm, 31d	1	

					stitch 600rpm, 4th stitch 900rpm, 5th stitch		
					2000rpm		
150	Reverse stitch up	Reverse stitch up			OFF: disabled ON: The motor reverses when the upper shaft stops, and the needle bar returns near the dead center	0	Selec tion
151	Fast start speed of 1 st stitch	Fast start speed of 1 st stitch	x100R PM	1	2~30	4	Input
152	Fast start speed of 2 nd stitch	Fast start speed of 2 nd stitch	x100R PM	1	2~30	8	Input
153	Fast start speed of 3 rd stitch	Fast start speed of 3 rd stitch	x100R PM	1	2~30	12	Input
154	Fast start speed of 4 th stitch	Fast start speed of 4 th stitch	x100R PM	1	2~30	27	Input
155	Fast start speed of 5 th stitch	Fast start speed of 5 th stitch	x100R PM	1	2~30	27	Input
156	5 stitches speed before the end of sewing	5 stitches speed before the end of sewing	x100R PM	1	4~27	27	Input
157	4 stitches speed before the end of sewing	4 stitches speed before the end of sewing	x100R PM	1	4~27	27	Input
158	3 stitches speed before the end of sewing	3 stitches speed before the end of sewing	x100R PM	1	4~27	27	Input
159	2 stitches speed before the end of sewing	2 stitches speed before the end of sewing	x100R PM	1	4~27	12	Input
161	Penetration enhancement	Penetration enhancement			OFF: invalid ON: When the Sewing machine motor is locked, the penetration force enhancement action is performed	0	Selec tion

162	Sewing speed change regulation based on sewing pitch change	Sewing speed change regulation based on sewing pitch change			OFF: The sewing speed fluctuates according to the sewing pitch of the sewing data ON: The sewing speed matches the maximum pitch of the sewing data and is fixed at the minimum speed (ON when the sewing speed is to be changed according to the pitch change)	0	Selec
163	The max sew speed	The max sew speed	x100R PM	1	2~30	27	Input
164	No trimming	No trimming			OFF: Thread trimming according to sewing data ON: All thread trimming actions are disabled	0	Selec tion
165	Reverse needle rising angle	Usually the upper needle position, the needle bar height increases in the negative direction, each digit corresponds to 4 °	0	1	-15~0	0	Input
200	1 stitch detection feed 1 stitch detection feed mode	1stitch detection feed 1stitch detection feed mode			OFF: Press the foot switch to automatically run to the last stitch ON: Press the foot switch to advance stitch by stitch. After the feeding starts, feed the cloth stitch by stitch by turning the handwheel	0	Selec tion
250	Machinical origin reset at the end of sewing	Whether search home position at sew end			OFF: At the end of sewing, the feed plate returns to the starting position ON: At the end of sewing, the feed plate returns to the starting position through the	0	Selec tion

				machine origin		
				1:100mm/s delay		
				2: 200mm/s delay		G 1
251	Feed speed	Feed speed		3:300mm/s delay	2	Selec
				4:400mm/s delay		tion
				5:500mm/s delay		
				OFF: Usually, step in		
				the foot switch at a slow		
	TT: h and d			speed and the first gear		C - 1
252	High-speed	High-speed test		is high-speed feeding	0	Selec
	lest leed	leeu		ON: The test feed is the		uon
				same as the sewing		
				speed		
				OFF: Step on the foot		
				switch (start switch)		
				when the program		
				number is flashing		
	Origin	Origin		ON: When the program		Selec
253	Detection	Detection method		number is flashing,	0	tion
	method	Detection method		press the dedicated		tion
				external input switch		
				(IN3, the foot		
				switch/start switch is		
				invalid		
				0:1 (upper right), 3		
			(lower left) quadrant			
				XY linkage, 2 (upper		
				left) quadrant X first		
				then Y, 4 (lower right)		
				quadrant first Y then X		
				1: First X and then Y to		
				the origin; first Y and		
	Movement			then X to the starting		
	route from the	Movement route		point		
254	machine	from the machine		2: First Y and then X to	0	Selec
	origin to the	origin to the		the origin; first X and		tion
	origin	origin position		then Y to the starting		
	position			point		
				3: First Y through the		
				center to the front, X		
				through the center to		
				the right, Y then to the		
				center, Y reverse back,		
				X reverse to the center;		
				starting point: X first,		
				then Y		

260	Change all feed synchronizati on	-10: Advance, 0: Standard, 10: Delay. Each number corresponds to 8 °.		1	-10~10	0	Input
261	Chang the feed synchronizati on of the first stitch at the sewing start	-10: Advance, 0: Standard, 10: Delay. Each number corresponds to 8 °.		1	-10~10	0	Input
262	Change the feed synchronizati on of the second stitch at the sewing start	-10: Advance, 0: Standard, 10: Delay. Each number corresponds to 8 °.		1	-10~10	0	Input
263	Change the feed synchronizati on of the third stitch at the sewing start	-10: Advance, 0: Standard, 10: Delay. Each number corresponds to 8 °.		1	-10~10	0	Input
264	Change the feed synchronizati on of 3 stitches before the end of sewing	-10: Advance, 0: Standard, 10: Delay. Each number corresponds to 8 °.		1	-10~10	0	Input
265	Change the feed synchronizati on for 2 stitches before the end of sewing	-10: Advance, 0: Standard, 10: Delay. Each number corresponds to 8 °.		1	-10~10	0	Input
266	Change the feed synchronizati on for 1 stitch before the end of sewing	-10: Advance, 0: Standard, 10: Delay. Each number corresponds to 8 °.		1	-10~10	0	Input
267	Feeding	When all the feed	stitch	1	0~99	0	Input

				-		-	
	synchronizati	synchronization					
	effctive	is changed from					
	stitches	the initial value					
		(No.260 setting),					
		specify its					
		effective Stitch:					
		0: no limit					
		1~99: If the					
		Stitch specified					
		at the start of					
		sewing is					
		exceeded, return					
		to the standard					
		feed					
		synchronization					
	Change the				0: Feed start reference		
	reference of	Change the			1: Upper needle		Salaa
268	feed	reference of feed			benchmark	1	selec
	synchronizati	synchronization			2: Feed end reference		tion
	on				3: Speed linkage		
					0: Do not perform		
					origin search operation		
	Origin action	Origin action			1: Do not perform		G 1
270	when	when switching			origin search, but pass	0	Selec
	switching	patterns			through the area center		tion
	patterns				2: Perform origin search		
					operation		
	Due les die u				OFF: Bottom thread		
200	Production	Production			counter display	0	Selec
300	counter	counter display			ON: Production counter	0	tion
	display				display		
					0: There is no		
					restriction on changing		
					the value set on the		
					operation panel		
					1: Prohibit the change		
					of program number, XY		
	Control panel	Control panel			scale, sewing speed,		~ 1
350	change	change			lower thread count,	0	Selec
	restrictions	restrictions			intermittent height,		tion
					digital tension value		
					2: Prohibit the change		
					of program number, XY		
				1			
					scale, sewing speed.		
					scale, sewing speed, intermittent height.		

				3: Prohibit the change		
				of the program serial		
				number		
				4: Prohibit the change		
				of program serial		
				number and XY scale		
				5. It is forbidden to		
				change the program		
				number XV scale and		
				sewing speed		
				6: Prohibit the		
				expansion of XV scale		
				(can be reduced)		
				7: Change of sewing		
				speed is prohibited		
	Change of			speed is promoted		
351	memory	Change of		OFF: Allowed	0	Selec
551	switch	memory switch		ON: Prohibited	0	tion
	Bottom Line	Bottom Line		0. Count in sewing data		
	Counting	Counting		units		
	Counting,	Counting,		1: Count by tangent		Selec
352	Methods for	Methods for		2. Count when the	0	tion
	Production	Production		sewing data is finished		tion
	Counting	Counting		or the seam is stopped		
	Count	Count		OFF: Counting at the		
	synchronizati	synchronization		end of sewing		Selec
353	on for bottom	for bottom line		ON. Counting at the	0	tion
	line count	count		start of sewing		non
	Switch the	0: invalid		6		
	program	1~9: Switch the				
	number	process No.NO.				
354	according to	according to the	1	0~9	0	Input
	the external	selection input				
	switch	(IN1~IN5) 5bit				
		0: invalid				
		1~9: According				
	Switch the	to the selection				
	broken seam	input (IN1~IN5)				
	number	5bit, switch the				
355	according to	sewing No	1	0~9	0	Input
	the external	corresponding to				
	switch	No. 1-31 (only				
	Switch	valid for single				
		sewing mode)				
	Action after	Action after		0: off		Selec
356	scanning	scanning		1: After scanning the	0	tion
	scanning	scanning		1: After scanning the		uon

				barcode,switch to the		
				scanned pattern number		
				2: After scanning the		
				barcode,switch to the		
				pattern number and		
				move to the pattern		
				origin		
				3: After scanning the		
				barcode,switch to the		
				pattern number, move to		
				the pattern origin, and		
				automatically sew once		
				OFF: Disabled		Salaa
400	User program	User program		ON: User program	0	sciec
				mode is valid		tion
				OFF: Disabled		
				ON: When sewing with		
401	avala nno anom			the user program, the	0	Selec
401	cycle program	cycle program		sewing is performed in	0	tion
				sequence according to		
				the set program		
	Expansion	Expansion and				
402	and reduction	reduction ratio		OFF: Display in %	0	Selec
402	ratio mm	mm display		ON: Display in mm	U	tion
	display					
				0: Continuous seam		
				breaking mode (before		
				seam breaking		
				detection, the seam		
				breaking menu is		
403	Selection of	Selection of seam		invalid)	0	Selec
	seam pattern	pattern		1: Continuous seam	-	tion
				breaking mode (the		
				seam breaking menu is		
				always valid)		
				2: Separate break seam		
				mode		
				OFF: After stepping on		
	Starting point			the pedal to start, move		
	movement	Starting point		to the starting point of		
450	during user	movement during		the new pattern	0	Selec
	program	user program		ON: When switching	Ť	tion
	transition	transition		patterns, move to the		
				starting point of the		
				new pattern		
452	Restriction of	Restriction of		OFF: Unlimited	0	Selec

	setting change	setting change in			ON: Prohibit the		tion
	in user	user program			content change of the		
	program				user program		
460	Sewing area	Sewing area	mm	1	0~2000	300	Input
100	X direction	direction			0 2000	500	mput
	Sewing area	Sewing area					
461	limitation in	limitation in Y	mm	1	0~2000	200	Input
_	Y direction	direction					1
					0: The center position		
	Expand and	Expand and			within the Sewing range		Selec
462	shrink the	shrink the datum			1: Sewing start point	0	tion
	datum point	point			2: Pattern Center		
					OFF: Disabled		
					ON: The setting of the		
1.64	XY linkage of	XY linkage of			enlargement/reduction	0	Selec
464	enlargement/r	enlargement/redu			ratio is the same on XY	0	tion
	eduction ratio	ction ratio			(invalid in user		
					program)		
					OFF: Changes in		
					program numbers or		
					expansion/reduction		
	M				ratios are initialized		
	Memory of	Memory of			when the power is		
	parallel	parallel			turned OFF.		C.1.
465	movement	movement			ON: When the power is	0	Selec
	amount of	amount of			turned off, the program		tion
	sewing	sewing pattern			number or		
	pattern				expansion/reduction		
					ratio change cannot be		
					initialized, and		
					initialization is invalid.		
	Switch the	Switch the			OFF: Disabled		
	position to be	position to be			ON: Store the position		Selec
468	avoided after	avoided after the			after parallel movement	0	tion
	the parallel	parallel			as the point to be		tion
	movement	movement			avoided		
					OFF: none		
	Needle	Needle cooling			ON: Yes, the pin		Selec
550	cooling	device			cooling pin is specified	0	tion
	device				in the output IO		non
					configuration		
	Thread	Stitch setting for					
551	loosening	the thread	stitch	1	0~3	0	Input
	setting at the	releaser to open					
	start of	at the start of					

	sewing	sewing				
552	Thread release synchronizati on during thread tangent	-10 Advance, 0: Standard, 10: Delay, each number corresponds to 8 degrees	1	-10~10	0	Input
554	Thread-Break Detection Device	Thread-Break Detection Device		0: Turn off 1: Normal (BRK) 2: Pulse (IN1) 3: Chronograph (IN1)	0	Selec tion
555	Detection Sensitivity of Thread-Break Detection Device	Detection Sensitivity of Thread-Break Detection Device		OFF: 5 stitches at the start of sewing, 3 stitches in the middle of sewing ON: 10 stitches at the start of sewing, 3 stitches in the middle of sewing	0	Selec tion
556	Flip telescopic device	Toggle and telescoping control pins are specified by the output IO configuration		0: none 1: Flipped Presser foot (insert the flip code to confirm the flip position) 2: Telescopic Presser foot (parking, the designated action position of the plate flip code) 3: Telescopic Presser foot (without parking, the designated action position of the plate flip code)	0	Selec
557	External wire sweeping device	External wire sweeping device		0: invalid 1: Use electromagnetic sweeping device 2: Use the pneumatic wire sweeping device, and specify the wire pulling function pin in the output IO configuration	1	Selec tion
558	External error monitoring input	External error monitoring input		OFF: Disabled ON: Valid, the pin is configured by the input	0	Selec tion

			 -			
				IO to specify the		
				detection pin		
				corresponding to		
				insufficient air pressure		
				OFF: Disabled		
				ON: In the output IO		
	Output for			configuration, specify		
550	work	Output for work		two output pin	0	Selec
557	indicator	indicator		functions as work	0	tion
	indicator			indicator (work) and		
				standby indicator		
				(error)		
				0: invalid		
				1: Standard work		
				2: Sewing starts		
	Automatic	Automatic return		because the cassette	0	Selec
560	return device	device		platen sensor is ON	0	tion
				3: The start switch is		
				valid even if the card		
				platen sensor is OFF		
561	When setting the automatic injection device to start automatically	(Memory Switch NO.560=2) Timing from sensor detection to start of sewing 0~999: The time until the automatic start after the box is checked	1	0~999	100	Input
562	Change of digital tension setting value	Change of digital tension setting value		OFF: Tension No. can be changed irrespective of sewing data ON: Only the tension No. 0 detected in the tension No. 0 and	1	Selec tion
				changed		
	Permission			0 . 1.1		
	for 2-stage	Permission for		U: invalid		
563	tension (when	2-stage tellsion		2. Use two tensions	0	Selec
505	using	spring_type main		2. Use two tensions	U	tion
	spring-type	adjuster)		J. Use two tensions		
	main adjuster)					
561	Maximum	Maximum thread		0: Invalid (at the end of	0	Selec
304	thread release	release force		sewing, the loose thread	U	tion

	force when	when raising the	is open)		
	raising the	spring-loaded	1: Thread loosening		
	spring-loaded	main adjuster	force is strengthened (at		
	main adjuster		the end of sewing, the		
			thread loosening state is		
			closed. When the thread		
			loosening is opened, it		
			will be closed after		
			about 5 minutes)		
			2: Maximum thread		
			release force (The		
			thread release is closed		
			at the end of sewing.		
			When the thread release		
			is opened, it will be		
			closed after about 1		
			minute.)		
	Thread		,		
	clamping	Thread clamping			
	device (thread	device (thread	OFF: Disabled		Selec
566	sweeping	sweeping	ON: Use the wire	0	tion
	replacement	replacement	clamping device		
	tvpe)	type)			
	Tension				
	condition	Tension			
567	when	condition when	OFF: release	0	Selec
	loosening the	loosening the	ON: do not release	-	tion
	thread	thread			
			OFF: Disabled		
			ON: Use auxiliary		
			thread release device		~ .
568	Thread	Thread release	(thread release	0	Selec
	release aid	aıd	operation is valid when		tion
			Memory switch		
			NO.564=0)		
			0: Press the RESET		
			button		
	How to cancel	How to cancel	1: Press the RESET		
650	the error stop	the error stop	button or Pause Switch	0	Selec
	state	state	2: Press the RESET		tion
			button or external		
			switch (IN3)		
	Needle stop	Needle stop	0: Stop at the lower		
	position when	position when	needle		Selec
651	sewing is	sewing is	1: Stop at the Upper	0	tion
	interrupted	interrupted	needle		
	1			1	

	according to	according to	2: Stop at the Upper						
	pause switch	pause switch	needle after thread						
			trimming						
			OFF: When returning						
			from a pause, thread						
	Tangent	Automatic thread	tangent operation		Selec				
652	action when	trimming when	ON: When returning	0	tion				
	paused	paused	from a pause, the thread						
			tangent does not run						
			OFF: Pause						
			Switch>RESET						
	Entry method	Entry method	button>DN						
653	from pause to	from pause to	button>Sewing start	0	Selec				
	resewing	resewing	ON: Pause		tion				
			Switch>RESET						
			button>Sewing start						
			OFF: The sensor is						
	Upper needle	Upper needle	valid and the upper		~ 1				
655	stop position	stop position	needle stop position	0	Selec				
	monitoring	monitoring	error is detected [E110]		tion				
	sensor invalid sensor invalid	sensor invalid	ON: invalid						
			OFF: After reset, move						
			to the sewing start point						
	Return-to-orig in during	Return-to-origin	ON: Return to origin is		G 1				
656			not performed, and	0	Selec				
	pause	during pause	move backward on the		tion				
							sewing path to the		
			sewing start point						
			0: invalid						
			1: During the period of						
			continuously stepping						
			on the foot switch, after						
			the Presser foot runs up						
			and down once, it will						
			work continuously						
			(Presser foot does not						
750	Coasting	Coasting mode	move up and down	0	Selec				
/ 50	mode	Coasting mode	when Memory switch	0	tion				
			NO.050=2, 4)						
			2: During the period of						
			continuously stepping						
			on the foot switch, after						
			the Presser foot runs up						
			and down twice, it will						
			work continuously						
			(Presser foot does not						

					move up and down		
					when Memory switch		
					NO.050=2, 4)		
					3: During the period of		
					continuously stepping		
					on the foot switch, after		
					the Presser foot runs up		
					and down 3 times, it		
					will work continuously		
					(the Presser foot does		
					not move up and down		
					when Memory switch		
					NO.050=2, 4)		
751	Coasting cycle time adjustment timer	Coasting cycle time adjustment timer	10ms	1	0~255	20	Input
					OFF: Disabled		
	Spindle angle display mode	Spindle angle display mode			ON: The spindle angle		C 1
756					is displayed when the	0	Selec
					sewing machine is		tion
					started		
	Legat No				OFF: Disabled		
	hased on	Input No based			ON: The sewing		Selec
950	expansion	on expansion			machine starts when the	0	tion
	selection	selection			expansion selection		uon
	selection				input IN1 is ON		
					OFF: Disabled		
	Program No	Program number			ON: Output V1~V4		Selec
951	Program No. output	ogram No. Program number output output			Output the lower 4 bits	0	tion
					of the program number:		uon
					1~15 are valid		

Other

Code	Description	Details	Unit	Step	Range	Factory Default	Туре
A-1	Trimming speed	Needle positioning angle after thread trimming	x10RP M		10~40	35	Input
A-2	Wire nipper type	Select a type of thread nipper			0: Mechanical clamp 1: Electronic clamp	0	Select ion
A-3	Outer Presser foot type	Outer Presser foot type			0: Pneumatic (V5) 1: Electromagnet	0	Select ion

				2: Motor		
A-4	The pinemaker turns on the current when threading the thread	The pinemaker turns on the current when threading the thread		0~250	0	Input
A-5	Intermittent Presser type	Intermittent Presser foot valve, stepping solenoid selection		0: Air valve 1: Step 2: Electromagnet	1	Select ion
A-6	Setting for stroke of Intermediate presser	Intermittent Presser up and down standard value		0~220	150	Input
A-7	Second stage Presser foot enable	Second stage Presser foot enable		OFF: Disable ON: Enable	0	Select ion
A-8	Second stage Presser foot height	Second stage Presser foot height		0~255	80	Input
A-9	Whether the presser raised when return to the origin	Whether the presser raised when return to the origin		0: do not lift the clamp 1: Lift the clamp	0	Select ion
A-10	When returning to the origin,the stretch presser foot moves	When returning to the origin,the stretch presser foot moves		0: No action 1: Move out first and return to the origin 2: Return to the origin first and then move out	2	Select ion
A-11	Delay time of putting out stretch presser	Delay time of putting out stretch presser		0~255	30	Input
A-12	Delay time of ascending stretch presser	Delay time of ascending stretch presser		0~255	45	Input
A-13	Delay time of descending stretch presser	Delay time of descending stretch presser		0~255	30	Input
A-15	X direction offset of laser cutting	X direction offset of laser cutting		-5000~5000	0	Input

	Y direction	Y direction			Input
A-16	offset of laser	offset of laser	-2000~20	00 0	
	cutting	cutting			
A-17	Laser cutting	Laser cutting	1~9	1	Input
	speed	speed			
A-18	Laser suction	Laser suction	0: OFF: tur	n off 0	Select
	switch	switch	1: ON: Tur	n on	101
	Laser	Laser inhalation		-	
A-19	aspiration	on delay	0~6553:	5 100	Input
	opening delay				
	Laser	.			
A-20	aspiration	Laser aspiration	0~6553	5 100	Input
	shutdown	shutdown delay			
	delay				
A-21	Delay before	Delay before	0~6553:	5 100	Input
	laser startup	laser startup			
	Delay after the	Delay after the	0 (552)	5 100	Turnet
A-22	laser nead	laser nead	0~6353.	5 100	Input
	Deless of the star	Deless effect the			
A 22	Delay after the	Delay after the	0.6552	5 100	Turnet
A-23	laser nead is	laser field is	0~0555.	5 100	Input
	Taised	Taiseu	0: OEE: do no	at start	
			I. L-ON. L	aser	
	Inflection point leaderation			iny	
			iy the	Salaat	
A-24		activated		ion	
	mathad	method	2: ALL: Doth t	u ha lasar	1011
	method		5. ALL. Bourt	d the	
			segment and	a the	
			activate	A	
	Halt switch		0: Normally	alosed	Select
A-25	type	Halt switch type	1: Normally	open 1	ion
	Safe switch		0: Normally	closed	Select
A-26	type	Safe switch type	1: Normally	open 1	ion
	Ratio of	Ratio of sewing			
A-31	sewing speed	speed	70~100	100	Input
		- spece	0: OFF: Ra	nge	
	Cancel range	Cancel range	nrotection	off	Select
A-32	notection protection		1: ON: Ra	nge 1	ion
	1	1	protection	on	
	Spindle motor	Spindle motor	r		
A-33	parking angle	parking angle	30~63	59	Input
A-34	Template	Template identity	0: OFF: tur	n off 0	Select

	identity setting	setting	1: ON: Turn on		ion
A-35	Template identity device	Template identity device	0: Useless 1: Barcode scanning equipment 2: RFID reading and writing equipment	0	Select ion
A-36	X offset of mark pen	X offset of mark pen	-5000~5000	0	Input
A-37	Y offset of mark pen	Y offset of mark pen	-2000~2000	0	Input
A-38	Running speed of mark pen	Running speed of mark pen	1~9	1	Input
A-41	The stroke height of the outer pressure of motor	The stroke height of the outer pressure of motor	15~25	20	Input
A-43	Presser foot to lower the number of stitches	Presser foot to lower the number of stitches	0~15	1	Input
A-44	Needle-up presser foot lowering height	Needle-up presser foot lowering height	0~40	0	Input
A-45	End presser foot to lower the number of stitches	End presser foot to lower the number of stitches	0~15	0	Input
A-46	End presser foot lowering height	End presser foot lowering height	0~40	0	Input
A-47	Traversal data whether to lift the needle	Traversal data whether to lift the needle	OFF:NO ON:YES	OFF	Select ion
A-48	Middle presser lowering delay	Middle presser lowering delay	0~255	0	Input
A-49	Skip slot air feed speed gear	Skip slot air feed speed gear	0~9	3	Input
A-50	Back seam speed setting	Back seam speed setting	0~9	3	Input
A-51	Template	Template	0: anytime	1	Select

	recognition	recognition	1: Falls the outer		ion
	timing	timing selection	pressure frame		
	selection				
	Number of	Number of			
A 52	automatically	automatically	1:1 sensors	2	Select
A-32	activated	activated	2:2 sensors	2	ion
	sensors	sensors			
			0: No hardening		
	Din	Din	1:1 stitch shrinkage		
۸-53	reinforcement	reinforcement	2: V hardening	0	Select
A-53 reinforc	method	method	3: Type N	0	ion
	linethod	memou	reinforcement		
			4: W reinforcement		
	Number of	Number of			
A-54	reinforcement	reinforcement	2~5	3	Input
	stitches	stitches			
			0: No hardening		
	End		1:1 stitch shrinkage		
۸-55	Hardening	End Hardening	2: Half stitch back	0	Select
11-55	Mode	Mode	3: V hardening		ion
	Widde		4: Type N		
			reinforcement		
	End Number	End Number of			
A-56	of reinforcing	reinforcing pins	2~5	3	Input
	pins				
	Laser bag	Laser bag			
A-57	opening	opening			
	function	function			

LCD Screen

Code	Description	Details	Unit	Step	Range	Factory Default	Туре
	language	ge language on selection			CH: Chinese		
					EN:English		
					Bur: Burmese		
B-1					KR:Korean		
					TK:Turkish	0	Select
	selection				JP: Japanese	0	ion
					VI:Vietnamese		
					ITA:Italiano		
					PT:Portuguese		
					ES: Español		
	Same 1 antting a	Sound function			OFF: turn off	1	Select
B- 2	Sound settings	settings			ON: turn on		ion
В-3	Sound volume	Sound volume of		1	0~31	25	Input

	of button	button					
В-5	DXF file conversion method	DXF file conversion method			0: Simplify 1: Complex	0	Select ion
B-6	Export to other formats	Export to other formats			OFF:OFF SEW:SEW VDT:VDT	1	Select ion
B-7	Buzzer voice setting	Buzzer voice setting			0: Mute 1: Panel voice 2: Panel voice+alarm	2	Select ion
В-9	Back-Light auto off set	Back-Light auto off set OFF: disable auto off, ON: enable auto off			OFF: Disable auto off ON: Enable auto off	0	Select ion
B-10	Wait time of back-light auto off	Wait time of back-light auto off	min	1	1~9	3	Input
B-12	Button dispiay style of modification and conversion	Button dispiay style of modification and conversion			ICN: Icon TXT: Text	0	Select ion
B-13	Large Stitch pattern support	Large Stitch pattern support			OFF: OFF ON: ON	0	Select ion
B-14	Pitch setting of convering vector graphics	Pitch setting of convering vector graphics	x0.1m m	1	10~127	30	Input
B-16	Communicatio n speed increase	Communication speed increase		1	0~1	0	Input
B-20	Preset time reminder	Preset time reminder		1	0~7	0	Input
B-22	Main interface pattern display function code	Main interface pattern display function code			YES: On NO: Do not show	NO	Select ion
B-23	SEW pattern export path	SEW pattern export path			0: Root directory 1: Borther/ISM/ISMDB0 0	1	Select ion

B-24	Home screen button display style	Home screen Key Display style Sets the key display style on the home screen		0: icon 1: Text	0	Select ion
B-25	Background color of the main screen	Background color of the main screen		0: Deep 1: Light	0	Select ion
B-26	Flash drive file preview	Flash drive file preview		0: Off 1: Open	0	Select ion

Pattern Settings

Code	Description	Details	Unit	Step	Range	Factory Default	Туре
C-1	Algorithm of backtack in multisewing	Algorithm of backtack in multisewing			0: According to segment 1: Only start and end	0	Selecti on
C-2	Insert second origin code after first feed line	Insert second origin code after first feed line			OFF: OFF ON-S: ON (switch sewing) ON-F: ON(continue feed)	1	Selecti on
C-3	Shortcut keys for break point of curves	Shortcut keys for break point of curves			OFF:OFF ON: ON	1	Selecti on
C-4	Restore sewing after input feed	set restore sewing style after input feed			0: Keep 1: Straight line	1	Selecti on
C-5	Needle reduction after editing	Needle reduction after editing			OFF: No ON: Yes	0	Selecti on
C-6	Reference point setting for modification	Reference point setting for modification			0: Home 1: 2HP	0	Selecti on
C-7	Display Sew Point?	Display Sew Point?			0: No 1: Yes	1	Selecti on
C-8	Method of pattern convert	Method of stitch index selection in multi-sew,offset- sew,backtack,zig zag or swap start/end			0: Stitch 1: Elements	0	Selecti on

C-9	Scale unit	Scale unit			0: Percent	0	Selecti
C-10	Scale mode of	Scale mode of			0: Variable	0	Selecti
C-11	Size calculation method of	Size calculation method of zoom	Size calculation method of zoom		0: From home 1: Form start sew point	0	on Selecti on
C-12	zoom function Return method after modify finishing	Return mode after modification (point and code)	Return mode after modification (point and code)		0: Function selection 1: Continue to modify	0	Selecti on
C-13	Mode of multi-sewing offest-sewing convert and insert section	Mode of multi-sewing offest-sewing convert and insert section(whether impact position of fillowing elements)			0: Relative modification 1: Absolute modification	1	Selecti on
C-14	Whether or not to save the initial feed when setting pattern center	Pattern center setting in pattern scale or rotation			0: Reserve 1: Remove	1	Selecti on
C-15	Whether 2HP is rotated in rotatefunction	Whether 2HP is rotated in rotatefunction			0: No 1: Yes	0	Selecti on
C-16	Algorithm of parallel curve	Criterion of angle to form a cornerpoint:0:non e,180:all			A1: Algorithm 1 A2: Algorithm 2 A3: Algorithm 3	2	Selecti on
C-17	Criterion of angle to form a corner point	Criterion of angle to form a corner point		1	0~180	90	Input
C-18	Feed pitch setting	Feed pitch setting	x0.1m m	1	10~120	120	Input
C-20	Show scale of shape point	Show scale of shape point			OFF: OFF ON:ON	0	Selecti on
C-21	Shape outline display of pattern edit	Shape outline display of pattern edit			OFF: OFF ON:ON	1	Selecti on
C-22	Edit following action setting	Edit following action setting			OFF: Disable ON: Enable	0	Selecti on
C-23	Small stitch	Only for straight			OFF: OFF	0	Selecti

	Shape Fusion	lines, shape	ON:ON		on
		points within			
		1 mm distance			
		will merge the			
		previous feature			
	Middle Presser	Middle Presser			G 1
C-26	foot height	foot height	0: Stitch	0	Selecti
	modification	modification	1: Segment		on
	mode	mode	0.51.		C 1
C-27	segment	segment	0: Simple	0	Selecti
	movement type	movement type			on
	Turnert	T	0: single(absolute and		C 1 t
C-28	Import	Import graphics	relative mode	0	Selecti
	graphics data	data	modification)		on
			1: Multi		
	Point movement and	Point movement			
C 20		and segment	0: OFF	0	Selecti
C-29	segment	movement	1:ON	0	on
	abanga traak	change track			
	Empty line	Empty line			
C 30	combine after	combine after	0: No	0	Selecti
C-30	point move	point move	1 : Yes	0	on
	point niove	How to Move			
	Ranid	Two Points			
C-31	movement	ineditting and	LINE: Line	1	Selecti
0.51	mode(Editting)	pattern	PAT: Pattern	1	on
		modification			
	Auto trimming	Auto trimming	OFF: OFF		Selecti
C-32	for pattern edit	for pattern edit	ON:ON	1	on
	Whether 2HP				<u> </u>
C-34	position is	Whether 2HP	OFF: No	1	Selecti
	scaled	position is scaled	ON: Yes		on
	D (PRE: 预设固定值		
0.25	Reference	Reference point	FRE: Freely choose	EDE	Selecti
C-35	point 2 setting	2 setting method	any point of the	FRE	on
	method		pattern		
	Whether the	Whether the			
C 26	presser foot	presser foot	OFF:ON	ON	Selecti
C-30	moves during	moves during	ON:Yes	UN	on
	trial sewing	trial sewing			
	Continue	Continue pattern	0. End of prev		Selecti
C-37	pattern pause	pause code	1. Start of current seg	0	on
	code position	position			
C-39	Stitch creation	Stitch creation	0: Stitch priority	1	Selecti

	method	method	1: Equal division		on
C-40	Command editting display style	Command editting display style	0: Command key on the right 1: Command key on the left	0	Selecti on
C-41	Support input curve corner points	Support input curve corner points	0:No 1: Yes	1	Selecti on
C-43	The middle inverted seam method	The middle inverted seam method	0:Element 1: Dotted seams		Selecti on
C-47	Select the frame transfer mode	Select the frame transfer mode	0: Slow speed 1: Shift frame at uniform speed		Selecti on

Maintenance

Code	Description	Details	Unit	Step	Range	Factory Default	Туре
D-1	The remain value of replacing needle	The remain value of replacing needle	x1000 pins	1	0~9999	0	Input
D-2	The set value of replace needle	The set value of replace needle	x1000 pins	1	0~9999	0	Input
D-3	The remain value of clean time	The remain value of clean time	Hour	1	0~9999	0	Input
D-4	The set value of clean time	time Clean time		1	0~9999	0	Input
D-5	The remain value of replacing oil	The remain value of replacing oil	Hour	1	0~9999	0	Input
D-6	The set value of replacing oil	The set value of replacing oil	Hour	1	0~9999	0	Input

Counter

Code	Description	Details	Unit	Step	Range	Factory Default	Туре
E-5	Sets counter clear method atpower supply on	Sets counter clear method atpower supply on			0: clear 1: reserved	1	Selecti on
E-8	The operation	The operation of			OFF: Stop sewing	0	Selecti

	of the sewingmachine when the set value of the adder (production count)isreache d	the sewingmachine when the set value of the adder (production count)isreached		ON:Sewing operation can be continued		on
E-9	Operation of the sewing machine when the set value of the sub tractor (lower thread count)is reached	Operation of the sewing machine when the set value of the sub tractor (lower thread count)is reached		OFF: Stop sewing ON: Sewing operation can be continued	0	Selecti on
E-11	Shuttle change with counter	Shuttle change with counter		OFF: OFF ON:ON	0	Selecti on

2.7 Mitsubishi version



🖶 Input mode	2023/08/30(Wed) 09:47		
Retain	CLR		
HIGH MD1	MD2	SLOW	
Pitch: 3.0mm	78	9	
	4 5	6	
	1 2	3	
	0 +	<u> </u>	
	cir		
		÷	

In Main interface, click Function Setting



to enter the

pattern-making interface.

A. Whether to re-enter

If the entered data is to be replaced with a new

one, press the button (clear the last printing data and re-print).

If to continue to make a version of the entered

data, press the button (continue to the last print data).

B. Set the speed

Click the four speed buttons in the interface to set the sewing speed for editing pattern data:



C. Set Pitch

Use the number buttoms



to input Pitch, the range is

0.1mm~12.7mm.

D. Graphical parameter modification

There are parameter buttons in the pattern-making,

modification and conversion interface

gather the relevant parameters, which is convenient for users to set.

E. Determine the input

After the above data setting is completed, press

the button

to enter the pattern making input

interface.

Supplementary Instructions for Pattern Making Interface



No.	Function	Content	
А	X relative coordinates	ordinates Displays the relative coordinate X value of the current movement (the difference between the crosshairs and the pattern position in parentheses)	
В	Y relative coordinates	Displays the relative coordinate Y value of the current movement (the difference between the crosshairs and the pattern position in parentheses)	
С	code	Displays the current input code.	
D	X absolute coordinates	Displays the X value of the current coordinate.	
Е	Y absolute coordinates	linates Displays the Y value of the current coordinate.	
F	F Number of shape points The number of shape points entered by the current editing process		
G	Pitch	Displays the pitch of the settings.	
Н	velocity	Note: The air feed pitch is displayed as 12.0mm	
Ι	Relative value of the height of the medium press	Displays the speed of the current needle.	
J	Absolute value of the height of the medium press	Displays the relative value of the current middle pin height	
K	Magnification key	Displays the absolute value of the current mid-foot height	

No.	Function	Content	
L	Inch key (point move key)	 On the pattern that has been generated, move forward/backward in an inch. (Point movement on already generated patterns) On the pattern that has been generated, move forward/backward in an inch. (Quick point movement on already generated patterns) 	
М	Zoom out key	Narrow down the pattern	
N	The input code is modified	Code setting mode	
0	D-pads	Move the frame in all directions.	
Р	Adjust the frame speed	The range is 1~3	
Q	Determine the key	Confirm the current edit shape.	
R	Close a section of the seam	Closure function.	
S	Modify the item thickness	The thickness of the material can be adjusted for sewing	
Т	Directory key	Enter directory mode.	
U	quit	Return to the previous screen.	
V	Cancel the Last Data Entry key	Press this key to cancel the last determined input point and return to the previous input point.	
W	Toggle sewing machine speed	Press this button to switch the sewing machine speed in turn: low speed, high speed, medium high speed, medium low speed.	
X	Needle position setting key	Raise or lower the needle position	
Y	Medium pressure foot rises	Adjust the medium pressure foot to rise	
Z	Return to origin key	Press and execute the Return to Origin command.	
AA	Enter the needle step	You can enter the needle step, but there is no transfer, and you can transfer it with another click	
AB	Pattern screen display	Displays the current patterned pattern	
AC	Number of needles	Displays the number of pins/total number of needles in the current needle position.	
AD	Curve corner point	Use the curve function to move the frame, click the corner point key to generate a 90° right angle point	

3 Appendix 1

3.1 List of Alarm Information

Error No.	Error Content	Solutions
E-010	Pause Switch not in normal position	Please release the Pause Switch and press the RESET button to clear the error.
E-011	Pause Switch pressed	Please press the RESET button to cancel the error, and press the direction button to move to the place where to continue sewing to continue the interrupted sewing.
E-025	Did not put down the Presser foot board	Please step on the Presser foot switch first and lower the Presser foot board.
E-050	The sewing machine head is raised and the Safe Switch is activated.	Turn off the power, confirm that the Safe Switch plug is inserted, and raise the handpiece to confirm that the Safe Switch is not pressed tightly.
E-081	Insufficient bottom line	After replacing the bottom line, press the OK button to restore
E-082	Laser offset out of range	Reset the laser offset value
E-086	Failed to write the driver program	Please restart the system and perform the upgrade again.
E-091	Unidentified template	Please relocate the template
E-097	The card reading module is abnormal	Power off to check whether the reader module is damaged or disconnected
E-099	Model does not match	The panel does not match the type of the control box, re-upgrade
E-111	Insufficient bottom line	Press the Confirm button to deactivate the alarm.
E-131	The spindle encoder is in poor contact.	Turn off the power and confirm the insertion of the spindle encoder plug
E-132	An abnormal rotation speed of the sewing machine main shaft was detected.	Turn off the power and confirm the insertion of the spindle encoder plug
E-133	Sewing machine spindle motor is running abnormally	Turn off the power, please confirm the insertion of the spindle encoder and spindle power cable plug
E-150	Abnormal heat or overload of the Sewing machine motor.	Turn off the power and turn the handwheel to confirm whether the sewing machine is locked.
E-152	The extension module is not connected	Shut down the system and check the cable connection and power supply between the expansion module and the system
E-153	The expansion module overflows	Close the system, check whether there is a short circuit of the external air valve, and remove the air valve one by one
E-200	The origin of the X-axis feed motor cannot be detected.	Turn off the power and confirm the insertion of the X-axis sensor plug.
E-201	The X-axis feed motor stopped abnormally.	Turn off the power, and check whether there is any abnormality in the X-axis feeding direction.
E-210	The origin of the Y-axis feed motor	Turn off the power and confirm the insertion of the Y-axis

	cannot be detected.	sensor plug.
E 211	The Y-axis feed motor stopped	Turn off the power and check whether there is any
E-211	abnormally.	abnormality in the Y-axis feeding direction.
E 212	V axis avanaument protoction	Turn off the power and check whether there is any
E-212	X-axis overcurrent protection	abnormality in the distribution direction of X axis.
E 212	V axis overeurrent protection	Turn off the power and check whether the Y-axis distribution
E-213	1-axis overcurrent protection	direction is abnormal.
E 214	Wire cutting motor overcurrent	Turn off the power, and make sure that the direction of the
L-214	protection	wire cutting motor is abnormal.
F-215	X-axis motor blocked	Turn off the power and check whether there is any
E-215		abnormality in the distribution direction of X axis.
F-216	V-axis motor is blocked	Turn off the power and check whether the Y-axis distribution
L-210		direction is abnormal.
F-217	The wire cutter motor is blocked	Turn off the power, and make sure that the direction of the
L-217	The wife editer motor is blocked	wire cutting motor is abnormal.
F-218	The thread trimmer motor does not	Turn off the power and check whether the thread trimmer
E-210	find the origin	motor operates abnormally.
E 210	V avis UVW signal failure	Turn off the power and confirm the insertion of the Y-axis
E-219	I -axis 0 V W signal failure	encoder plug.
E-220	X-axis shock failure	Restart, please check the X-axis motor parameters.
E-221	Y-axis shock failure	Restart, please check the Y-axis motor parameters.
E-222	X-axis overspeed fault	Power off. Make sure the X-axis encoder plug is plugged in.
E-223	Y-axis overspeed fault	Power off. Make sure the X-axis encoder plug is plugged in.
E 224	Wine outting motor overspeed foult	Turn off the power and make sure the plug of the cutter motor
E-224	whe cutting motor overspeed raut	encoder is plugged in.
E-225	The X-axis Z signal is faulty	Power off. Make sure the X-axis encoder plug is plugged in.
E 226	The V avia Z signal is faulty	Turn off the power and confirm the insertion of the Y-axis
E-220	The Y-axis Z signal is faulty	encoder plug.
	The origin of the intermittent Dresser	Turn off the power, and check the insertion status of the
E-300	fact mater connet he detected	Presser foot sensor plug and the Presser foot motor power cord
	foot motor cannot be detected.	plug.
	The motor of the intermittent Program	Turn off the power, and check whether there is any
E-301	fact standed abnormally	abnormality in the vertical direction of the intermittent Presser
	foot stopped abnormany	foot.
	Abnormal communication between	Turn off the nower and check the connection between the
E-410	the electric control and the panel is	operation papel and the main control
	detected	operation panel and the main control
E_/11	A communication error with the	Power off, please power on again, and check the configuration
1411	engine board was detected.	parameter Content.
	Detected an abnormality in	Turn off the nower and confirm whether the stenner driver
E-475	communication with the stepper	hoard is abnormal
	drive	
F-476	Detected an abnormality in	Power off, please power on again and check the configuration
Е-4/б	communication with the stepper	parameter Content

	drive	
E-477	Detected an abnormality in communication with the stepper drive	Power off, please power on again and check the configuration parameter Content
E-501	The sewing range of the sewing machine is exceeded during the movement	Please confirm the size of the sewing data.
E-600	Thread-Break Detection exception	Check whether the disconnection sensor and the sense cable are connected properly
E-700	The power supply voltage is abnormally high.	Turn off the power and confirm the input voltage.
E-701	The drive voltage of the sewing machine is overloaded.	Turn off the power, please confirm whether the power supply voltage is normal, equipped with a voltage stabilizer.
E-705	The power supply voltage drops abnormally.	Turn off the power and confirm the input voltage.
E-710	An abnormal current in the sewing machine spindle was detected.	Turn off the power and check whether there is any abnormality in the sewing machine.
E-711	An abnormal current of the X-axis feed motor was detected.	Turn off the power, and check whether there is any abnormality in the X-axis feeding direction.
E-712	An abnormal current of the Y-axis feed motor was detected.	Turn off the power and check whether there is any abnormality in the Y-axis feeding direction.
E-713	Abnormal current detected in Presser foot motor.	Turn off the power and check whether the presser foot is lifted abnormally.
E-730	External error input (AIRSW) detected.	Turn off the power and check the air pressure.
E-740	The cooling fan in the control box is not working.	Turn off the power, and check whether it is caught by lint, etc.
E-743	Auxiliary power failure	Turn off the power and check whether there is a short circuit in the external air valve or solenoid.
E-744	The driver voltage is too high	Turn off the power and confirm the input voltage.
E-745	The drive voltage is too low.	Turn off the power and confirm the input voltage.

Information Code	Information Name	Sub-Information Content
M-001	Production counter reaches maximum value	Please press the OK button
M-002	Bottom line counter reaches maximum value	Please press the OK button.
M-003	Change is prohibited	Please set parameter No. 350
M-004	Pattern data does not exist	Please re-read or type out the input.
M-005	The setting value is too large	Please enter a value within the range.
M-006	Setting value is too small	Please enter a value within the range.
M-007	Please press the home button	
M-008	Storage parameter exception	Please press the OK button to restore the factory defaults.
M-009	No pattern in memory	Please press the OK button to load the factory pattern.
M-010	The number of memory patterns is full	Delete unused sewing data.
M 011	Whether to delete pattern	Press the OK button to perform the delete operation, and
IVI-011	data in memory	press the cancel button to exit the current operation.
M-012	Whether to overwrite the	Press the OK button to perform the overwrite operation, and
111-012	pattern data in the memory	press the cancel button to exit the current operation.
M-013	Pattern data cannot be deleted	The selected sewing data is in use!
M-014	Whether to format the memory	Press the OK button to perform the formatting operation, and press the cancel button to exit the current operation. After formatting, all Memory pattern data will be deleted!
M-015	Detected abnormal communication between electronic control and panel	Detect the connection between the operation panel and the main control
M-016	beyond the Sewing range	Please make sure the pattern data is within the Sewing range!
M-017	Failed to read letter embroidery font file	
M-018	The operating head does not match the control box type	Please check the model and software version
M-019	Incorrect pattern number entered	Please enter the correct pattern number.
M-020	Exceeded max pitch	
M-021	wrong password	please enter again.
M-022	hardware clock failure	If the hardware clock is found to be faulty, please contact the manufacturer for maintenance!
M-023	Stitch out of range	Please enter [Operation Settings]->[LCD Screen], select the parameter of 'Large Stitch Pattern Support' and set it to ON
M-024	Needle pitch input value is too small	Please enter a value within the range.
M-025	Needle pitch input value is	Please enter a value within the range.

3.2 List of Prompt Information

	too large	
M-026	A second origin already	
	exists	Only one second origin can be entered.
M-027	Feeding action, please press ENTER	If you press the cancel button, return to the main menu
M-028	Whether to copy the specified pattern data	
M-029	Whether to restore factory settings	OK button executes the operation, cancel button exits the operation
M-030	USB drive removed	The USB drive has been pulled out!
M-031	No data found in the USB drive	
M-032	Enter at least one letter	Letter embroidery printing requires at least one letter!
M-033	No alarm record	
M-034	Replace the needle	The needle replacement setting value has been reached, please replace the needle!
M-035	Change the oil	The oil change time set value has been reached, please change the oil!
M-036	cleaning machine	The time set value for cleaning the machine has arrived, please clean the machine!
M-037	different data formats	Please confirm the data format
M-038	Unable to generate curve	Please re-enter according to the precautions for curve input
M-039	The trimmer cannot be inserted at the current position	Please insert trimmer after sewing data
M-040	Cannot insert the same function code in the same position	
M-041	The current position cannot be inserted into the second origin	Please insert second origin after transfer
M-042	Entering points cannot generate arcs and circles	please enter again
M-043	Unable to generate overlapping seam data	Please add overlapping seam after closing the figure
M-044	Unable to join thread trimmer after down pause	
M-045	Unable to add next pause before line cutting	
M-046	Incorrect location selected	
M-047	Can't zoom	
M-048	Incorrect pattern data	
M-049	Generate arc data?	
M-050	Generate circle data?	

M-051	Generate curve data?	
M-052	Generate polygon data?	
M-053	Presser foot not put down	Please step on the pedal
M-054	Incorrect user ID entered	please enter again
	Do not modify the system	The installment password is set, and the system time cannot
M-055	time	be modified
M-056	Failed to write password file	Panel clock error or password file expired
M-057	Failed to read password file	
M-058	Failed to clear all passwords	Password file cannot be deleted
M-059	Failed to clear password	After clearing the password, the file is written abnormally
M-060	Enter the pattern name	
M-061	Input can not be empty	Please enter password
M-062	The current password does	Please re-enter your current password
111 002	not match	
M-063	The new password does not match	Please re-enter the new password and confirm again
M-064	Are you sure to clear the alarm record?	Are you sure?
M-065	whether to delete the selected file	Are you sure?
M-066	Copy all graphics	Overwrite the original graphics?
M-067	Failed to copy file	Please check if the disk space is full!
M-068	Failed to copy file	Please check if the USB stick is unplugged!
M-069	fail to open the file	fail to open the file!
M-070	format mismatch	Format mismatch, discard current read!
	Please create directory and file	Please create a bakParam directory under the U disk, name
M-071		the backup file backup.param, and copy it to the bakParam
		directory!
M-072	file read and write error	File read and write error!
M-073	Please select an entry	Please check the entry to read and write!
M-074	file does not exist	The file corresponding to the current entry does not exist!
M-075	Movement amount not entered	Please enter the amount of movement!
M-076	Are you sure to perform the current operation?	Are you sure? Yes: Enter No: X
	Are you sure to clear the	Are you sure? Yes: Enter No: X
M-077	accumulated operating time?	
M-078	Are you sure to clear the accumulated sewing pieces?	Are you sure? Yes: Enter No: X
M-079	Are you sure to clear the accumulated Power time?	Are you sure? Yes: Enter No: X
M-080	Are you sure to clear the accumulated sewing stitch?	Are you sure? Yes: Enter No: X
M-081	Upgrade entry not selected	Please select items to upgrade, at least one item must be

		selected
M-082	Some of the selected upgrade entries do not exist	Items without upgrade files will be unchecked after returning,
		if you want to upgrade the remaining items, please confirm
		again
M-083	update successed	The upgrade is successful, please restart the machine
M-084	Whether Format USB Data	Press the OK button to perform the formatting operation, and
		press the cancel button to exit the current operation.
		After formatting, all U disk files will be deleted!
M-085	success	The current operation has been successfully performed!
M-086	fail	The current operation failed!
M-087	Whether to overwrite the pattern with the same name in the U disk	Press the OK button to overwrite the file, and press the cancel button to exit the current operation.
M-088	Letter embroidery pattern	Please enter the data reading interface and select the newly
M-088	saved successfully	generated letter embroidery pattern
M-089	This pattern cannot be converted	Please confirm the pattern file
M-090	Whether to reset all settings	Are you sure?
M-091	Whether to restore selected items	Are you sure?
M-092	No item selected	Please select one or more parameters
M 002	noromotor initialization	Clear all data in the storage area, please turn off the power
M-093	parameter initialization	and restore the position of the DIP switch
M-094	Cannot copy and overwrite	The current pattern number exists in the copy queue, and the
111-074	the current pattern	current pattern cannot be overwritten
M-095	Need to convert pattern	The selected pattern is not a standard file format, please use it
111 070	format	after conversion
	This operation cannot be	
M-096	performed in the current	Please restore parameter 400 or 401
	pattern mode	
M-097	Delete the original pattern?	Whether to delete the original pattern after format conversion
M-098	Shut down, bye!	
M-099	Large Pitch Pattern File Format	This pattern format is not supported by this system
M-100	Conversion pattern format error	Please confirm the pattern file
M-101	Converting pattern data is	
	too long	
M-102	The converted pattern cannot	
	be opened	Please confirm the pattern file
M-103	Conversion pattern precision	The resolution in the pattern-making software is set to 0.1mm
	error	(Tools->Option Settings->Resolution
M-104	Recovery parameters	The parameters are restored successfully, please restart the
	succeeded	machine
M-105	Save the software version successfully	The software version has been successfully saved to the root directory of the U disk
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M-106	set successfully	Need to restart the machine
M-107	Verification failed when upgrading the master program	
M-108	threading	
M-109	Whether to restore the saved custom parameters	OK button executes the operation, cancel button exits the operation
M-110	The current pattern is locked by the template	Please unlock template lock!
M-111	parameter load failed	Please contact the manufacturer for maintenance!
M-112	Insufficient bottom line	Please replace the lower thread and count again after pressing the OK button
M-113	Unable to generate multi-seam data	
M-114	Done with graphic duplication?	
M-115	memory allocation error	
M-116	Continued use will convert to point stitching	
M-117	The panel does not match the master password ID	Contact factory to unlock!
M-118	The panel has a password, but the master has no password	If you already know the password, please press the confirm button to synchronize encryption, otherwise contact the technician for guidance
M-119	The current master has a password and needs to be synchronized	The master has a password, but the panel has no password!
M-120	Need to replace the font, please power off and restart	Special languages will turn off the voice function
M-121	Missing language font	Please upgrade the required font file
M-122	number already taken	
M-123	Unable to generate stitches	
M-124	Internal data exception	
M-125	arc exists	Ellipse will be converted to point seam
M-126	Are you sure to clear production records?	Are you sure?
M-127	Check in successfully	
M-128	Failed to punch	
M-129	Condensation conversion succeeded	
M-130	Are you sure you want to clear the switch history?	Are you sure?

M-131	No switch record	
M-132	Failed to upgrade driver	
M-132	Request failed	
101 155	Password information saved	
M-134	successfully	
M-135	Upgrade file does not exist	The directory does not exist or there are no files in the directory
M-136	Are you sure to perform spindle calibration?	Are you sure?
M-137	Invalid group number	
M-138	Deny current operation	
M-139	Receive parameter is empty	
M-140	Parameters have not changed	
M-141	QR code display failed	
M-142	Condensation Stitch exceeds actual Stitch	
M-143	Unable to generate condensation data	
M-144	Can't enter point	Coincidence with the last input point position
M-145	Generate curve data?	
M-146	The start pin contains function code, please confirm whether to modify	OK button means to modify the function code, cancel button to exit and re-select
M-147	The panel is not encrypted, the master is encrypted	Please confirm whether to replace the new panel
M-148	Panel encryption, master not encrypted	OK button to synchronize encryption status
M-149	Remote staging settings already exist in the system	OK button to continue the operation, cancel button to exit the operation
M-150	Wireless module 1 connection failed	The system speed is reduced to the minimum, please contact the manufacturer
M-151	Do you want to update the pattern thumbnail now?	Thumbnails will also be generated after the pattern is used
M-152	The system has been set to offline mode	Can be detected after the networking function is turned on
M-153	join failed	
M-154	Can't convert	
1.177	Whether to delete the	
M-155	selected shape point	
M-156	Whether to modify shape point attributes	
M-157	The pattern does not exist, is it downloaded from the server?	

M-158	Are you sure?	
M-159	The requested pattern is not	
	in standard NSP format	
	The server updates the	
M-160	software, whether to perform	Do you want to upgrade now?
	the upgrade operation	
M 161	Action not completed	
IVI-101	timeout	
M-162	Location query timed out	
M-163	Boot screen upgrade	
	abnormally	
M 164	Please scan the code to start	
M-164	processing	
	The width of the herringbone	
M 165	seam is too large, and a	
IVI-103	horizontal stitch needs to be	
	inserted	
M 166	The panel is not connected to	
111-100	the master	
	The pattern precision is	
M-167	higher than the system	Pattern data will lose precision
	precision	
	Whether to overwrite other	Press the OK button to overwrite the file, and press the cancel button to exit the current operation
M-168	patterns with the same name	
	in the U disk	
	The pattern is generated, do	Yes: Enter continue to set parameters or function codes: No:
M-169	you want to continue	X. exit to save the pattern
	editing?	
	Do you want to restore the	
M-170	stiffness of all pitches to their	Are you sure? Yes: Enter No: X
	original values?	
M-171	Save the laser offset value?	Are you sure? Yes: Enter No: X
M-172	Do you want to save the	Are you sure? Vest Enter Not X
	origin offset value?	
M-173	There is editing data	Whether to end the printing operation
M-174	whether to cut the selected	Are you sure?
	file	
M-175	file format error	
M-176	The current reference pattern	Press the OK button to automatically replace with the default
	is deleted or does not exist	pattern
M-177	Base 2 cannot be in the same	
	place as base 1?	
M-178	The end point must be after	The current operation is terminated
	the start point	

M-179	Enter the user program Settings please turn on parameter 400	The current operation is terminated
M-180	Step on the pedal to get ready to sew	
M-181	Network down	
M-182	Please save by executing the OK key first	
M-183	Unselected hotspot	
M-184	Preset time prompt	
M-185	The Wifi network is set successfully. Procedure	
M-186	SEW pattern with the same name, please select the execution method (only prompted once)	Ok: Duplicate patterns will be removed
M-187	Whether to cover the name SEW pattern	Return: Do not copy the file with the same name
M-188	The laser parameters are set incorrectly	Ok: Duplicate patterns will be removed

4 Appendix 2

4.1 Operating headers installation dimensions



4.2 Control box mounting dimensions

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4.3 System block diagram



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