⚠Safety Instruction

1. Users are required to read the operation manual completely and carefully before installation or

operation.

2. The product should be installed and pre-operated by well-trained persons. All power supplies must be turned off during the installation work, remember not to operate with power on.

3. All the instruction marked with sign △ must be observed or executed. Otherwise, bodily

3. All the instruction marked with sign. \(\Delta\). must be observed or executed. Otherwise, bodily injuries angiant occur.
4. For perfect operation and anticy, it is prohibited that using extension cable with multi-outlet of the perfect operation of the proper cond. It must be determined that the operating voltage conforms to the rated voltage value specified in the product identification.
Don't operating indirect un light, outdoors are and where the room temperature is over 45°C or below 0°C.
Please avoid operating near the heaster at dew area or at the humidity below 10% or above

90%.

8. Don' t operate in area with heavy dust, corrosive substance or volatile gas.

1. reuses avoid operating near the heater at dee wares or at the humidity below 10% or above 90%.
90%.
90%.
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90%.
1. receive the receive heater of the provided part of the p

				press "S" key to save the current position (value) as down needle position.
P76	Lower thread trimming engage stroke	0-800	580	
P77	Height of press foot stroke	0-1000	580	
P78	Lower thread trimming engage acceleration	1-30	10	
P79	Lower thread trimming retract acceleration	1-40	12	
P80	Acceleration of presser foot lifting	1-60	20	
P81	Acceleration of presser foot lowering	1-60	12	
P86	Up and down needle position distance	0-2399	1200	
P87	Return delay of upper thread trimming (ms)	10-990	15	10 He 11 He
P88	Upper thread trimming solenoid output duty cycle	0-100	75	
P89	AC overvoltage setting	500-1023	880	The State of the Control of the Cont
P92	Motor electrical angle correction		160	Reading the initial Angle of encoder, the factory default was set, please do not change the values (parameter value cannot be changed manually, random change it will result the control box and motor abnormal or damaged).
P93	Half back pedal delay time (ms)	10-900	150	Augustina and a second
P100	Lower knife test mode	0-800	0	When the value is 0, the knife will be closed by default. When it is greater than 0, the stroke of the corresponding value will be taken (for example, if it is adjusted to 200, and then press save, the scissors will take a stroke of 200). After exiting P100, the knife will be closed by default.
P105	Output selection of upper knife trimming port	0-3	1	0: Upper knife trimming 1: Upper thread sweeping 2: Upper knife trimming and Upper thread sweeping 3: Air blow
P107	Suction action time (s)	0-60	0	
P108	DC motor drive output enable	0-1	0	0: OFF 1: ON
P110	Thread trimming / presser foot stepping motor zero point correction	-500-500	0	Company of the second of the s
P111	Presser foot steady current (0.1A)	7-25	10	
P112	Current compensation for presser foot (0.1A)	0-9	5	
P119	Electromagnet overcurrent	0-1	1	0: No alarm, turn off the output. 1: Alarm and shutdown.

P119 Construction 0-1 1 U. No altern, turn of the output.

1 I. Altern and Suddown.

Note: the initial value of parameters is for reference only, and the actual value of parameters is subject to the real object.

Name	key	Indicate			
Function key P		If press, enter or exit function parameter edit mode.  If long press, switch to the password input interface. Enter the correct password, press the S key to confirm, you can enter the advanced parameter setting, interface.			
Enter key		For the content of the selected parameters check and save: after select parameter press this key to check and modify operation, after modified parameter value press this key to exit and save the parameter.			
Speed increase		If press, increase the speed.  If long press, the speed will be increased continuously.			
Speed decrease	-	If press, decrease the speed.  If long press, the speed will be decreased continuously.			
LED brightness adjustment		In the main interface, if press, adjust LED brightness.  In the perameter interface, if press, the value of thousands digit will be increased.			
Slow launch setting		In the main interface, if press, set used or cancelled slow Isuach function in the parameter interface, if press, the value of hundreds digit will be increased.			
Automatic presser foot lifting setting		In the main interface, if press, switch function off, automatic presser for lifting after trimming, automatic presser foot lifting after pause, full function successively.  In the parameter interface, if press, the value of tens digit will be increar.			
Auto-suction		In the main interface, if press, set used or cancelled auto-suction function.  In the parameter interface, if press, the value of units digit will be increased.			
Needle stop position selection	1.	In the main interface, if press, set needle stop position.  In the parameter interface, if press, the value of thousands digit will be decreased.			
Thread sweep key		In the main interface, if press, set used or cancelled thread sweeping function.  In the parameter interface, if press, the value of hundreds digit will be decreased.			
Upper knife trimming		In the main interface, if press, set used or cancelled upper knife trimmin function.  In the parameter interface, if press, the value of tens digit will be decreased.			
Lower knife trimming		In the main interface, if press, set used or cancelled lower knife trimming and upper knife trimming function. In the parameter interface, if press, the value of units digit will be decreased.			

I Button displays and operating instructions

Error	Problem description	Solutions	
E01	High voltage	Whether the grid voltage is higher than AC260V.     If it is self-generated power supply, please reduce the generator power.     If it still does not work normally, please replace the control box and notify the after-sales service.	
E02	Low voltage	Whether to connect to low voltage.     Reset.     Sife is mill does not work normally, please replace the control box and notify the after-sales service.	
E03	CPU communication abnormal	<ol> <li>Turn off the system power and check whether the connection of the display screen is loose or disconnected, restart the system after returning it to normal.</li> <li>Turn off the system power, remove the control box and only plug in the power cord to power on, whether alarm EOS, if it still alarms EOS, replace the control box and mostly the after-alses service.</li> </ol>	
E05	Pedal signal abnormal	1. Check whether the pedal connector is loose or is system after returning it to normal.      2. If it still does not work normally, please replace.	Check whether the pedal connector is loose or fall off, and restart the system after returning it to normal.     If it still does not work normally, please replace the control box or spec controller and notify the after-sales service.
E07	Main shaft motor locked-cotor	1. Turn off the power and check whether the hands-heel can be turned. Jonascobly from the hands-heel by hands, if it cannot be turned, please check the reachine. 2. Turn off the power, check whether the motor power commetter is lower, plug it in and restart it. 3. Checks whether the upper needle using position is correct, if not, please adjust the superport positioning position. 4. If it mill does not work turnettly, please replace the control box or spetide motor and order the article.	
E10	Electromagnet overcurrent protection	Turn off the system power and check the solenoid (solenoid valve) for damage or short circuit.	
E09 E11	The positioning signal of main shaft motor encoder is abnormal	1. Turn off the system power, check whether main shaft motor encoder connector is loose or fall off, restore it to normal and restart the system. C. Check whether the motor zero point correction setting is correct. Reset the motor zero point correction. Whether there is oil on the encoder code plate, please chem it if there is any. 3. If it still does not work normally, please replace the control box or main shaft motor and norify the after-sales service.	
E14	Main shaft motor encoder signal is abnormal	1. Turn of the system power, clock whether the main shall motor encode connector is lose or a fill, effector is to comain and restart the system. 2. Check whether the garning is installed correctly (whether the garning stereous are lightered and whether the garning is in the center of the encoder). 3. Check whether there is of on the encoder code class, if there is, please 3. Check whether there is of on the encoder code class, if there is, please 4. Life still does not work nearmally, please replace the control to or main staff more on the code of the class of the c	
E15	Main shaft motor drive overcurrent	Please check whether the motor power cord has bad contact.     Please check whether the motor power cord is crushed.	

1.2 Auxiliary function

Long press S in the main interface, switch to the debugging parameter interface. P92 motor electrical angle correction, P72 quick adjustment of upper positioning and P100 lower knife test mode.

1.2.1 Reset

In the main interface, press and an an an an an an an an an are time, you can restore factory settings

No.	Items	Range	Default	Description
P01	Maximum sewing speed (rpm)	100-9000	3500	Maximum speed of machine sewing.
P02	Set accelerated curve (%)	10-100	80	Set the acceleration slope.  The greater the slope value, the steeper the speed the smaller the slope value, the slower the speed.
P03	Needle UP/ DOWN	UP/DN	UP	UP: Needle stops at up position DN: Needle stops at down position
P04	Upper sweeping solenoid output duty cycle	0-100	75	
P05	Upper sweeping action time (ms)	10-990	20	
P06	Upper sweeping return time (ms)	10-990	15	
P07	Soft start speed (rpm)	200-1500	1000	
P08	Stitch numbers for soft start (stitch)	1-99	2	100
P14	Slow start function selection	ON/OFF	OFF	
P21	The position of the pedal for accelerating	30-1000	500	PANEL CONTRACTOR
P22	The position of the pedal for the stop	30-1000	420	
P23	The position of the pedal for presser foot lifting	30-1000	280	The state of the s
P24	The position of the pedal for thread trimming	30-1000	130	Description 1
P27-N06	Automatic piece counting selection	0-50	1	0: P41 item trimming counter does not automatically count 1-50: Counter thread trimming times
P29	The stopping force when thread trimming	1-45	20	CAMINE TO THE STATE OF THE
P37	Upper knife thread trimming output function setting	0-11	1	
P38	lower knife thread trimming output function setting	ON/OFF	ON	A SKINNEY TO STATE OF
P39	Automatic presser foot lifting when pause	UP/DN	DN	UP: ON DN: OFF
P40	Automatic presser foot lifting after trimming	UP/DN	DN	UP: ON DN: OFF
P41	Counter display	0-9999	I Jessey	Display the quantity of finished sewing piece.  Long-press "-" key to clear the count.
P42-NO1	The control system version number	STREET, STREET		
P42-NO2	The panel version number	WHEN BUTTON	100	
P42-NO3	Sneed			The second secon

		<ol> <li>Please replace the control box or main shaft motor and notify the after-sales service.</li> </ol>				
E16	The thread trimming switch is not in the correct position	Turn off the system power and check if the thread trimming mechanism returns to the correct position.				
E20	Main shaft motor failed to start	returns to our tecture, possions.  1. Thus off the system power, these whether main thaff motor power cost connector and encoder connectors and consider connectors and consider connectors and consider the system.  2. Chock, whether the motor zero point correction setting is correct, reset the motor zero point correction setting is correct, reset the motor zero point correction.  3. If it still does not work normally, please project the control box or main shaft motor and notify the after-sales service.				
E92	Overcurrent when the stepping motor is trimming	1. Turn off the power of the system and observe whether the suppring motor for freed trimming (presen fool) is suck. If it is suck, remove the mochanical filiation of muchaches fil. filis or such check whether the thread trimming (presen fool) suppring motor interface is loose of falling off, and then restart the system after remining in too comal. 2. If it still does not work normally, please replace the costnol but or the thread trimming (presen fool) suppling motor and notify the after-sales service.				
E94	The positioning signal of trimening (presser foot) stepping motor encoder is abnormal	1. Turn of the system power and observe whether trimming (presers both suppring motors is such. If it is such, remove the mechanical failure of the suscession fairs. If it is success, tensive the motor interesting the present force suppring motor encoder connector is loose or failing off, and whether there is on the succession of paint in flower in, please clean it sup, restore it to normal and motorator the system.  2. If it will does not work normally, please replace the contribit not or more information of the present place of the contribit not or more information of the present place of the contribit not or more information of the present place of the contribit not or more information of the present place of the contribit not or more information of the place				
E95	Trimming (presser foot) stepping motor encoder signal is abnormal	<ol> <li>Tun off the system power, check, if the thread trimming (presser foot) stepping motor encoder connector is loose or fall off, resistor is to normal and restart the system.</li> <li>If it still does not work normally, please replace the control box or the thread trimming (presser foot) stepping motor and notify the after-sales service.</li> </ol>				
E96	Trimming (presser foot) stepping mocer failed to start	1. Turn off the power of the system, check whether the thread trimming (greater food) stepping notes power cord connector and encoder connector are locos or fall find an elevant the system after returning it to anomal. 2. If it sail those not work normally, please replace the control box or the thread trimming (greaser food) stepping motor and notify the after-sales service.				
E97	The stepping motor is locked-rotor when thread trimming	1. Turn off the system power and observe whether the thread trimming (presser foot) stepping motor is stuck. If it is stuck, remove the mechanici fisilare of the machine first. If it is normal, check whether the thread trimming (presser foot) stepping motors power cord connector and encode connector are loose or fall off, restore them to normal and restart the				

P42-NO4	The pedal AD	1000	2000	是不是在一种。但是是是是自己的。
P42-NO5	The mechanical angle(up position)		San tal	
P42-NO6	The mechanical angle(down position)			three Said Self-Magherian
P42-NO7	Bus bar voltage AD			
P42-N11	Status information		127	
P43	Direction of motor rotation	CCW/CW	CCW	CW: Cleckwise CCW: Ceunter clockwise
P44	Normal stopping force	1-45	15	
P45	Periodic signal of suction output (%)	1-80	80	
P48	The minimum speed (positioning speed) (rpm)	200-1000	500	Adjust the minimum speed.
P52	Delay the start of the motor to protect the lowering time of presser foot (ms)	10-990	100	Delay the start time, with automatic presser foot down.
P53	Presser foot lifting function selection	0-2	-1	O: OFF  1: Back pedaling and half back pedaling with lifting presser foot. 2: Half back pedaling without lifting presser foot, back pedaling with lifting presser foot.
P55	Upper thread trimming action time (ms)	10-990	20	MERCATOR SERVICE AND A
P56	Power on and positioning	0-2	.0	O: Always not to find the upper position  1: Always to find the upper0 position  2: If the motor is already in the upper position, no longer find the upper position
P57	Presser foot protection time (s)	1-120	10	Forced to close after lifting the presser foot for a holding time.
P58	Upper positioning adjustment	0-1439	40	Upper positioning adjustment, the needle will advance stop when the value decreased, the needle will delay stop when the value increased.
P59	Down positioning adjustment	0-1439	750	Down positioning adjustment, the needle will advance stop when the value decreased, the needle will delay stop when the value increased.
P60	Testing speed (rpm)	100-6000	4000	Setting testing speed.
P61	Testing A	ON/OFF	OFF	Continuous running testing.
P62	Testing B	ON/OFF	OFF	Start and stop testing with all functions.
P63	Testing C	ON/OFF	OFF	Start and stop testing without all function.
P64	Test run time	1-250	50	
P65	Test stop time	1-250	50	
P69	Motor type selection	0-50	0	ACMINISTRATION OF STREET
P70	Model selection	1-45	31	
P72	Quick adjustment of upper positioning	0-2399	10.00	Adjust up needle position, the displayed value will change with the position of the handwheel, peess "S" key to save the current position (value) as up needle position.
P73	Quick adjustment of down positioning	0-2399		Adjust down needle position, the displayed value will charge with the position of the handwheel,

system.

2. If it still does not work normally, please replace the control box or the thread trimening (presser foot) stepping moter and notify the after-sales then'd trimming (premer from purping moter and only the after-mine service.

1. Then off has system power and observe whether the fined artisming, service from a single premer is small. If it is such, renove the mechanical alithest of the methods from the single premer is small. If it is such, renove the mechanical alithest of the methods from the premer power confidence and except the connection are loss or of purping more power cond connection and except the system.

2. If it is all does not work normally, please regime the control loss or the system.

2. If it is all does not work normally, please regime the control loss or the control loss of the system of the system of the size of the system of the size of the s

4 Port diagram 2P function port description



1. LED lights: 1 (DGND), 2 (+5V)

