

561-P Instructions v1.0

1. Safety instruction

Please read the operation manual and related sewing machinery datasheet carefully before correct use.

1.1 (1)Power voltage and frequence: please refer to motor and control box nameplate.

(2) Interference from electromagnetic wave: please keep far away strong magnetic or high radiation environment in order to avoid obstructions and make to misoperation.

(3)Grounding: to avoid the noise obstructions or leakage of electricity accident(inculding sewing machine,motor,control box and positioner) .

1.2 Please make sure power off at least 1min and then can open control box cover, because there are dangerous high voltage.

1.3 Please turn off the power while repairing or wearing needle in order to protect operator’s safty.

1.4  Used where potential dangers exist.

 Used where high voltage and electric danger exist.

1.5 Product warranty is one year on condition that the machine is operated correctly and no man-made damage.

2.Install Requirements

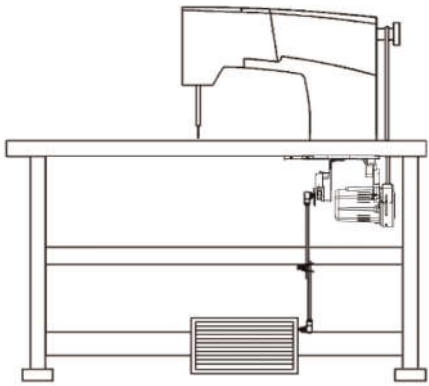
Install Instruction（Photo in the right side）

2.1、Belt Install Instruction:

Make sure the sewing machine hand wheel and motor pulley in the same level; and control the tightness of belt(use two fingers hold belt tight, two belts cannot be touched and not too tight);

2.2、Connecting Rod install instruction:

Make sure the perpendicularity of the rod, or it will affect the life and performance of the pedal.



3. Operation Manual

Panel Instruction	Function	Operation Instruction
	Rotation setting	Long press▲key, enter P12, show 0/1（0: clockwise 1: anti-clockwise）, after setting press S key to save, then press P key to exit.
P：Function Key	Parameter Setting	Under sewing interface, Press P key for 1 second, enter to normal parameter mode, show P01: press▲▼key to change parameter, after press S key, show relevant parameter, press▲▼key to change: 300 。A) After press S key to save, will show next parameter, press P to exit; B) If press P key directly ,save the parameter and exit.
	Aging mode	Press P key to enter aging mode, press“P key+▼key”or“thread pedal”to start or stop.
S：Save Key, up and down needle position	Monitoring Mode	Long press S key for 2 seconds, enter to monitoring mode, press▲▼key to chance monitoring parameter, monitoring value cannot change. Detail monitoring interface see below chart.
	Save Key	Under parameter interface: save key
	Display position switch key	Under password interface: Display position switch key
	Motor Angle Test	Press S key to enter working mode, press“P key+▼key”or“thread pedal”to start or stop.
▲ Up Key	Speed up key	Long press under sewing interface:speed up key
	Number up key	Up key under parameter interface
	Up and down needle position adjust	Short press under sewing interface: up and down needle position switch
	Advanced Parameter mode	Long press P key for more than 3 seconds, enter to password interface, system shows: 000flicking from left to right, Press▲▼key to change, from 0~F, press S key to change position. Press P key to check password, if password correct, show advanced parameter No.: P-01, if password wrong, back to 000(again flicking from left to right), then press P key to exit.
▼ Down Key	Speed down key	Long press under sewing interface:speed slow down key
	Number down key	Down key under parameter interface
	Soft start	Short press under sewing interface: stitch’s number of soft start switch during 0~9
	Reset Password	Press▼key while start power, enter password reset interface, enter old password, it will show: 000flicking from left to right, press S key to change position, press▲▼key to change, press P key confirm to enter. If password right, then decimal point turn light, again flicking from left to right, set new password, after setting press P to enter confirm interface: press▲▼key to choose YES, press S key save and show OFF, remind power off, press P key exit → 。

Note:

1、When P2 is set to 1, is without synchronizer mode, the needle position and soft start setting of standby interface fail.

2、After entering the correct password into parameter interface of level II , P20 ranges from 0~2。

3、Change P20 and P50, press S to enter the confirmation interface, choose "YES" or "No", and press S to confirm.

4. Monitoring Mode

Item No.	Item Name	Unit		Item No.	Item Name	Unit
JJ	quantity	set		st	Machine head mechanical Angle	degree
spd	Motor Speed	rpm		ia	Motor initial Angle	degree
cur	Motor Current	0.01A		id	Master program version/Mchine type	/
udc	Busbar voltage	V		ver	Machine type/Master program version	/
pdl	Pedal Voltage	0.01V		dsp	DSP Number	

5. Parameter Chart

No	Item	Content	Setting range	Default	Level
1	Sewing speed	Setting the highest speed	20～500rpm（10ratio）	500rpm	I
2	Easy sewing mode	0: With synchronizer 1: Without synchronizer	0~1	1	I
3	Choose needle position	0: up needle position 1: down needle position	0~1	0	I
5	Soft start Number of thread	Number of threads when start sewing at low speed 0: No soft start function 1~9: Thread number of soft start	0~9	2	I
6	Soft start speed 1	Speed of the 1st needle of soft start	30~200	60rpm	I
7	Soft start speed 2	Speed of the 2nd needle of soft start	30~200	100rpm	I
8	Soft start speed 3	Speed of the 3rd~9th needle of soft start	30~200	150rpm	I
10	Front cut stitch	0: No front cut stitch 1~50: Stitch cut setting based on the UP signal pulse number (Valid with synchronizer, suit for overlock machine)	0~50	0	II
11	Back cut stitch	0: No back cut stitch 1~50: Stitch cut setting based on the UP signal pulse number (Valid with synchronizer, suit for overlock machine)	0~50	0	II
12	Back step trimming function selection	0: Without trimming function 1: With trimming function Back cut stitch valid as P11, back step trimming based on P11	0~1	0	I
13	Lowest sewing speed	Lowest sewing speed	10~100（10 ratio）	30rpm	I
14	Suction function selection	0: No Suction function 1: Long Suction function 2~5: Pin number(50 ratio)	0/1/2/3/4/5	1	I
15	Suction and off time	Set the suction and off time	1~50（Unit:0.1S）	10	I
16	Back step presser foot function selection	0: Without presser foot function 1: With presser foot function	0~1	0	I
18	Down needle position adjust	Down needle position adjust	-12~12	-2	I
19	Up needle position adjust	Up needle position adjust	-12~12	0	I
20	Default setting	0: No reset 1: Reset normal parameter 2: Reset all parameter	0~2	0	II
21	Highest sewing speed	Highest sewing speed	200~500 rpm（10 ratio）	500rpm	II
22	Pedal track of start running	The pedal position before running, relative to the pedal neutral position track	90~300	210	I
23	Pedal track of start speeding up	Pedal track of start speeding up , relative to the pedal neutral position track	90~300	230	I
24	Pedal track of high speed running	Pedal track of running the highest speed, relative to the pedal neutral position track	90~300	290	I
25	Pedal track of foot lifting	Pedal track of foot lifting, relative to the pedal neutral position track	90~300	160	I
26	Pedal track of trimming 1	Pedal position of trimming when without foot presser function, relative to the pedal neutral position track	90~300	160	I
27	Pedal track of trimming 2	Pedal position of trimming when with foot presser function, relative to the pedal neutral position track	90~300	100	I
31	The aging speed	The aging speed	30～500rpm（10 ratio）	350rpm	II
32	Running time of ageing	Running time of ageing	1~250 (0.1s)	30	II
33	Pause time of aging	Pause time of aging	1~250 (0.1s)	20	II
34	Aging mode	0: Time mode（press 31/32/33） 1: Factory mode	Reserved	1	II

6. Error Code

Error Code	Error Detail	Error Reason	Error Solution
E1	Hardware overcurrent	Current abnormal;Driver hardware damaged	Check current circuit work normal or not; Check driver damaged or not
E2	Software overcurrent	Current abnormal; Driver software damaged	Check current circuit work normal or not; Check driver damaged or not
E3	Overvoltage while stopping	Actual voltage higher; Voltage detect wrong	Whether system incoming voltage is higher; Whether system voltage circuits work normal or not
E4	Under voltage while stopping	Actual voltage lower; Voltage detect wrong	Whether system incoming voltage is lower; Whether system voltage circuits work normal or not
E7	Motor HALL signal error	Motor sensor signal error	Motor signal detect IC damage or not
E8	Motor stalling	Motor stalling	Whether sewing thicker material than motor specifiction; Machinery is jammed or not
E9	Motor overload	Motor overload	Whether sewing thicker material than motor specifiction; Turn on soft start function, Reduce frequency
E10	Trimming stalling	Trimming stalling	Whether the machine is stuck;Whether sewing material than motor specifiction
E11	Moto UP signal error	Moto UP signal error	Motor encoder damaged
E12	Synchronizer signal error	Synchronizer signal error	Outter synchronizer damaged;The induction distance between magnetic tile and sensor is wrong, signal cannot be detected
E13	EEPROM error	Memory IC read abnormal	Memory IC read abnormal
E14	Current detection circuit error	Current detection abnormal	Whether system current circuits work normal or not;Restart control box
E15	Pedal AD fault	Pedal verification fault	Pedal zero position deviation
E16	OZOZ circuits error	OZ circuits abnormal	Check OZ circuits work or not
E17	Abnormal motor operation	Abnormal motor operation	If electric engine plug is well contacted;Motor angle adjustment
E18	Motor reserval	Abnormal motor operation	If electric engine plug is well contacted;Motor angle adjustment
E19	Voltage too high	Actual high voltage Voltage detection is wrong	Whether the voltage on the inlet wire is too high;Whether the system voltage detection circuit the normal work.
E20	Voltage too low	Actual low voltage Voltage detection is wrong	Whether the voltage on the inlet wire is too low;Whether the system voltage detection circuit the normal work.
E23	Down needle position signal error	Down needle position signal error	Check down needle sensor damage or not
E24	Pedal ID fault	Pedal verification fault	Pedal connection is loosen.
E25	UP needle position signal error	UP needle position signal error	Check down needle sensor damage or not
E26	Rockover switch error	Rockover switch valid (resumable)	Put down the machine or check the rockover switch
OFF	No power display	Turn off the power	Waiting for the power
EvaL	Trial period expired	Trial period expired	Contact with distributors