

WR580G Easy TypeLockstitch Control SystemInstructionsV1.2

1. Safety instruction:

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

- 1.1 (1) Power voltage and frequency: 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 disoperation.
- (3) Grounding: to avoid the noise obstructions or leakage of electricity accident (including 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 safety.
- 1.4 ⚠Used where potential dangers exist.
- ⚡Used where high voltage and electric danger exist.
- 1.5 If the M6*16 hexagon socket fastening screw comes off, remove it and reinstall it.
- 1.6 M6*16 hexagon socket fastening screw should be tightened before use. It is not allowed to use without tightening.
- 1.7 Product warranty period of one year on condition that this machine is operated correctly and no man-made damage.

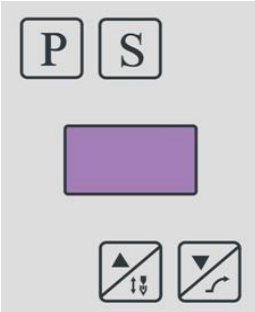
2. Parameter Table:

No	Project	Content	Settingrange	The default value
1	Sewing speed	Set sewing speed	300~4500 rpm	3000 rpm
2	Simple sewing mode Settings	0: Stopped 1: No stop function	0/1	0
3	Up and down needle position selection	0: On the needle position 1: Lower needle position	0/1	1
4	Motor rotation	0: Forward 1: Reversal	0/1	0
5	Soft-start function	1~10: Soft-start function	1~10	2
6	Soft start speed 1	speed of the 1 st needle of soft start	300~2000 rpm	600rpm
7	Soft start speed 2	speed of the 2 nd needle of soft start	300~2000 rpm	1000rpm
8	Soft start speed 3	speed of the 3 rd ~10 th needle of soft start	300~2000 rpm	1500rpm
12	Signal mode for turn/lift switch	Setting of signal mode of turn/lift switch of machine head 0: always open 1: always close 2:forbid a protection	0/1/2	0
13	Minimum sewing speed	Minimum sewing speed	300~1000 rpm	300rpm
20	Return to factory-set parameter	0: Do not restore parameters 1: Restore normal parameters	0~1	0
21	Highest speed of sewing	highest speed of sewing	200~4500 rpm	3000 rpm
31	Aging speed	Aging speed	300~4500 rpm	3000 rpm
32	Aging running time	Aging running time	1~600ms	30ms
33	Aging pause time	Aging pause time	1~600ms	20ms
59	Down needle positioning position	To adjust down needle position	6~18	12

3. Operation Manual:

3.1 Panel Instruction

No.	button	description
1		Function key
2		Save key
3		▲: Up key/Up-down needle position compound key
4		▼ : Down key/Soft start compound key



3.2 Operating mode

3.2.1 Parameter setting

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:

(1) After press S key to save, will show next parameter, press P to exit;

(2) If press P key directly, save the parameter and exit.

3.2.2 System Info:

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.

show framenumbers	Item Name	unit		show framenumbers	Item Name	unit
SPD	speed of motor control	(*10) rpm		UDC	Motor Voltage	V
CUR	Motor Current	0.01A		VER	Voltage	/

3.2.3 Aging mode: Press P key to enter aging mode, press “P key+▼key” start or stop. system shows: 

4. Error Codes:

ErrorCode	Contents	Possible reasons	Checking and treatment
E1	Hardware drivers fault	Current abnormal detection Driving hardware error	Current detection loop system is working properly;Whether the damage to the device driver.
E3	Voltage too high	Actual high voltage detection is wrong	If the voltage on the inlet wire is too high Whether the system voltage detection circuit the normal work.
E4	Voltage too low	Actual low voltage detection is wrong	If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work.
E7	Motor HALL signal error	Motor sensor signal error	Motor signal detect IC damage or not;
E8	Motor overload	Motor stall motor overload	If electric engine plug is well contacted; If machine head or thread-cutting mechanism has been blockedcompletely; if materials are too thick; Electrical signal detection signal whether the normal.
E11	HALL A signal lost	HALL A signal lost	Motor damage;
E13	EEPROM error	Memory IC read abnormal	Memory IC read abnormal;
E15	Pedal ID fault	Pedal verification fault	Pedal connection is loosen.
E16	Oz circuit fault	Oz circuit fault	Oz circuit system is working properly.
E23	Down needle position signal error	Down needle position signal error	Check down needle sensor damage or not;
E25	Up needle position signal error	Up needle position signal error	Check up needle sensor damage or not;

5. Accessories:

NO.	Product name	Amount	Product specification	Confirm
1	Electric control box	1		
2	Pedal	1	PL-313	
3	Ballsection connecting rod	1		
4	Screw	3	M5×25	
5	The instructions	1		
6	Tensioner	1	Lockstitch series clamp/length 35mm,width 25mm/M4	
7	Disc head with gasket self-tapping screw	2	M3*5	
8	Machine head key box	1		
9	Fixed plate	2	Cold-rolled sheet	
10	Fixed plate triple combination connection screw	2	M5*20	
11	Nut	2	M5	
12	Thread cutter	1	Lockstitch series cutter/double holeΦ 3.8	
13	Adapter plate	1		
14	Hexagon socket fastening screw	5	M6*16	