WR58L High series manual V1.2

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 operater's safty,
- ⚠ Used where potential dangers exist.

Used where high voltage and electric danger exist.

5 Product warranty period of one year on condition that this machine is operated correctly and no man-made damage.

		ter table	

No	Project	Content	Setting range	default value	Lev el
1	Sewing speed	Set sewing speed	200~3000rpm	2000	I
2	Soft-start function	0 : No soft-start function 1~99 : Soft start stitches	0~99	3	I
3	Ornamental bartacks	0: Invalid 1: Effective	0/1	1	I
4	Fixed-length seam sewing speed	Set fixed-length seam sewing speed	200~3500rpm	2000	I
5 9	Sewing mode Reverse limitted feed speed	0 : Free sewing 1 : Simple Sewing Reverse limitted feed speed, when the manual switch	0/1 500~1500rpm	700	I
19	Function of stop after bartack at the start of sewing	closed Function of stop after bartack at the start of sewing 0 : Invalid 1 : Effective	0/1	0	I
20	The manual switch function of the reverse	0 : Only reverse feed stitching 1 : And needle compensation	0/1/2	0	I
21	feed stitching of sewing Soft-start speed 1	2 : Only reverse feed stitching , standby does not work The first stitch speed	100~3000rpm	400	I
22	Soft-start speed 2	The second stitch speed	100~3000rpm	600	I
23	Soft-start speed 3	The third stitch speed	100~3000rpm	600	I
24 25	Function of soft-down of presser foot Enable presser foot lift	0: Invalid 1: Valid 0: Disable 1: Enable	0/1	0	I
25 27	Up -position function	0: Invalid 1: Valid	0/1 0/1	0	I
28	Safety switch signal mode	0: Normally open 1: Normally closed 2: No protection	0/1/2	0	I
29	The time of soft-down of pressure foot	The time of soft-down of pressure foot(time longer,down more slower)	50~500ms	300	II
30	The bottom line magnification setting	0: Invalid 5/10/15/20: Bottom line rate	0/5/10/15/20	0	I
31	Initial baseline setting	Initial baseline setting	200~4000	1600	I
32	Ornamental bartacks pause time	Ornamental bartacks pause time	5~500ms	50	I
34	Standard bartacks, pedal speed source choice	0: automatic standard bartacks speed 1: pedal analog speed	0/1	0	II
35	Piece-rate setting	0:No piece-function 1~50:(Piece multiples)+1	0~20	0	I
36	Initial set piece count	Initial set piece count	0~1000	100	I
11	Slow speed	The lowest pedal speed	100~400rpm	200	I
12	Pedal curve selection	0: Normal 1: Slow acc. 2: Fast acc	0/1/2	0	I
4	Cutting speed	Cutting speed	100~400rpm	200	I
15	Reverse limitted feed speed enable	0 : Disable 1 : Enable	0/1	0	I
16	Delay Sewing time, when presser foot down	Delay Sewing time, when presser foot down	0~800ms	50	II
17	Time of presser foot magnet full voltage output	Time of presser full voltage output	0~800ms	150	II
8	Presser foot magnet voltage output duty	Presser foot voltage output duty cycle	0~100	40	II
9	cycle Presser foot magnet lift holding time	Presser foot magnet lift holding time	1~60(s)	12	II
	Time of reverse feed stitching magnet full	Time of reverse feed stitching full voltage output			
0	voltage output	, , ,	0~800ms	150	II
1	Reverse feed stitching magnet duty cycle	Reverse feed stitching magnet duty cycle	0~100	45	II
3	Reverse feed stitching magnet holding time Speed of bartack at the start of sewing	Reverse feed stitching magnet holding time Speed of bartack at the start of sewing	1~60(s)	12 700	II
	Bartack at the start of sewing compensation	i i	100~3000rpm		I
4	1	Bartack at the start of sewing compensation 1	0~100	20	I
55	Bartack at the start of sewing compensation 2	Bartack at the start of sewing compensation 2	0~100	12	I
6	Speed of bartack at the end of sewing	Speed of bartack at the end of sewing	100~3000rpm	700	I
7	Bartack at the end of sewing compensation 1 Bartack at the end of sewing compensation 2	Bartack at the end of sewing compensation 1 Bartack at the end of sewing compensation 2	0~100 0~100	20	I I
58 59	Overlapped sewing speed	Overlapped sewing speed	0~100 100~3000rpm	12 700	I
60	Overlapped sewing speed compensation 1	Overlapped sewing speed compensation 1	0~100	20	I
61	Overlapped sewing speed compensation 1	Overlapped sewing speed compensation 2	0~100	12	I
52	Pedal travel upon start	Pedal position upon start	10~50		II
		Travel relative to medium pedal	10 00	95	
14	·	I Pedal nosition upon start acceleration		25	
	Pedal travel upon acceleration	Pedal position upon start acceleration Travel relative to medium pedal	10~100	25 50	
i3	·	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to	10~100 10~150		II
63 64	Pedal travel upon acceleration	Travel relative to medium pedal		50	II
63 64 65	Pedal travel upon acceleration Pedal travel at highest rotation speed	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position	10~150	50 110	11
63 64 65 66	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function	10~150 -100~-10	50 110 -30	II
53 54 55 66	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot	10~150 -100~-10 5~50 -100~-10	50 110 -30 10 -30	111
533 54 55 56 66 67	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser	10~150 -100~-10 5~50	50 110 -30 10	111
533 54 55 666 57	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal	10~150 -100~-10 5~50 -100~-10 -100~-10	50 110 -30 10 -30 -60	111
53 54 55 56 66 67 58 69	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position	10~150 -100~-10 5~50 -100~-10 -100~-10 0~240	50 110 -30 10 -30 -60 60	11 11 11 11 11
53 54 55 55 66 57 68 69 70	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position 0: Disable 1: Enable	10~150 -100~-10 5~50 -100~-10 -100~-10 0~240 0/1	50 110 -30 10 -30 -60 60	
53 54 55 66 66 57 68 69 70 71	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversal of needle lift angle	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position 0: Disable 1: Enable Reversal of needle lift angle	10~150 -100~-10 5~50 -100~-10 -100~-10 0~240 0/1 0~90°	50 110 -30 10 -30 -60 60 0	
53 54 55 56 57 57 58 58 59 70 71 75	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversal of needle lift angle Needle position adjustment	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position 0: Disable 1: Enable Reversal of needle lift angle Needle position adjustment	10~150 -100~-10 5~50 -100~-10 -100~-10 0~240 0/1 0~90° 0~240°	50 110 -30 10 -30 -60 60 0 45 214	111 111 111 111 111 111 111 111
63 64 65 66 67 68 69 70 71 75 76	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversal of needle lift angle Needle position adjustment Stop needle position minor adjustment	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position 0: Disable 1: Enable Reversal of needle lift angle Needle position adjustment Stop needle position minor adjustment Needle bar maximum angle 0: Fixed sewing reverse 1: Supplementary needle	10~150 -100~-10 5~50 -100~-10 -100~-10 0~240 0/1 0~90° 0~240° 90~110	50 110 -30 10 -30 -60 60 0 45 214 100	
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3 4 5 6 7 8 9 0 1 5 6 7 8 9 9 0 2 3 3 4 4 4 5 5 6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversal of needle lift angle Needle position adjustment Stop needle position minor adjustment Needle bar maximum angle Key switch function selection return to factory-set parameter highest speed of sewing Set period of use Aggravating function/ Machine needle emphasis function Reduce noise Cutting magnet pull angle	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position 0: Disable 1: Enable Reversal of needle lift angle Needle position adjustment Stop needle position minor adjustment Needle bar maximum angle 0: Fixed sewing reverse 1: Supplementary needle 5: restore the current level factory parameters 8: restore the current level and sewing factory parameter set According to S button, select yes, then press the S key execution highest speed of sewing 0: Disable; 1~1000(Take hours as a unit) Needle wear through cloth when used 0: invalid; 1~15 strength regulation 0~15 Reduce noise Cutting magnet pull angle	10~150 -100~-10 5~50 -100~-10 -100~-10 -100~-10 0~240 0/1 0~90° 0~240° 90~110 270~360 0/1 0~15 200~3500spm 0~1000 0~15 0~15 150~200	50 110 -30 10 -30 -60 60 0 45 214 100 290 0 0 0 0 0 0 0 60	
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63 64 65 66 67 68 69 70 71 75 76 77 78 80 82 83 84 85 86 87 88 88 88 88 88 88 88 88 88	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversal of needle lift angle Needle position adjustment Stop needle position minor adjustment Needle bar maximum angle Key switch function selection return to factory-set parameter highest speed of sewing Set period of use Aggravating function/ Machine needle emphasis function Reduce noise Cutting magnet pull angle Power angle of shear line Cutting magnet release angle Loose magnet pull angle	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position 0: Disable 1: Enable Reversal of needle lift angle Needle position adjustment Stop needle position minor adjustment Needle bar maximum angle 0: Fixed sewing reverse 1: Supplementary needle 5: restore the current level factory parameters 8: restore the current level and sewing factory parameter set According to S button, select yes, then press the S key execution highest speed of sewing 0: Disable; 1~1000(Take hours as a unit) Needle wear through cloth when used 0: invalid; 1 ~ 15 strength regulation 0~15 Reduce noise Cutting magnet pull angle To set power angle of shear line Cutting magnet release angle Loose magnet pull angle	10~150 -100~-10 5~50 -100~-10 -100~-10 -100~-10 0~240 0/1 0~90° 0~240° 90~110 270~360 0/1 0~15 200~3500spm 0~1000 0~15 0~15 150~200 200~300 300~360 150~250	50 110 -30 10 -30 -60 60 0 45 214 100 290 0 0 0 0 0 0 0 60 260 340 300	
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63 64 65 66 67 68 69 70 71 75 76 77 78 80 82 83 84 85 86 87 88 89 90 92	Pedal travel upon acceleration Pedal travel at highest rotation speed Pedal travel upon presser foot lift Pedal travel upon presser foot lowering Pedal travel 1 upon thread trimming Pedal travel 2 upon tread trimming Down needle positioning position Reverse needle lift function Reversal of needle lift angle Needle position adjustment Stop needle position minor adjustment Needle bar maximum angle Key switch function selection return to factory-set parameter highest speed of sewing Set period of use Aggravating function/ Machine needle emphasis function Reduce noise Cutting magnet pull angle Power angle of shear line Cutting magnet release angle Loose magnet pull angle	Travel relative to medium pedal Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift Travel relative to medium pedal Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal Pedal position upon start trimming without presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal To adjust down needle position 0: Disable 1: Enable Reversal of needle lift angle Needle position adjustment Stop needle position minor adjustment Needle bar maximum angle 0: Fixed sewing reverse 1: Supplementary needle 5: restore the current level factory parameters 8: restore the current level and sewing factory parameter set According to S button, select yes, then press the S key execution highest speed of sewing 0: Disable; 1~1000(Take hours as a unit) Needle wear through cloth when used 0: invalid; 1 ~ 15 strength regulation 0~15 Reduce noise Cutting magnet pull angle To set power angle of shear line Cutting magnet release angle Loose magnet pull angle	10~150 -100~-10 5~50 -100~-10 -100~-10 -100~-10 0~240 0/1 0~90° 0~240° 90~110 270~360 0/1 0~15 200~3500 spm 0~1000 0~15 150~200 200~300 300~360 150~250 270~360	50 110 -30 10 -30 -60 60 0 45 214 100 290 0 0 0 0 0 0 60 260 340 300 320	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

3. System Info

Operation panel default mode, press the button at the same time in P made sewing needle trigger select key, enter the system monitoring state through the +-key choose need to look at the project, according to the S button

e <u>r,</u>	exit the select	ted projects suc	n as the need to	exi	t monitoring	interface, according	to P keys can be
	show frame numbers	Item Name	unit		show frame numbers	Item Name	unit
	JJ	Plan number	piece		U6	Motor initial Angle	limit
	U1	speed of motor control	rpm		U7	Master control program version/ Head type	/
	U2	Motor Current	0.01A		U8	Head type/ Master control program version	/
	U3	Motor Voltage	V		U9	Dsp no	1
	U4	Pedal voltage	0.01V		vEr	Operation box version of the program	/
	U5	Mechanical Angle with	limit		TYPE	Software no	1

4.Operation box use

	ı	1		
Function Starting	Button	Described		
reinforcing -sewing	141	Execute starting reinforcing-sewing 2 times, to and fro.		
ending reinforcing -sewing	M	Execute ending reinforcing-sewing 2 times, to and fro.		
continuous reinforcing -sewing		Press treadle ahead for automatic sewing, to and fro, which is set at D and can reach 13times.(F) Continuous reinforcing-sewing is in trigger mode by default, treadle doesn't need to be kept being pressed, and corresponding trigger light of preset sewing is solid lit. Previous ending reinforcing-sewing setting is invalid if this function is valid.		
parameter setting	0	1.For preset sewing. Trigger treadle and the system will automatically conduct sewing at E, F, G, H sections; the treadle doesn't need to be kept being pressed.2.Solid light for continuous reinforcing-sewing mode means that it is trigger mode by default.		
thread- cutting	%	Set or cancel thread-cutting function.	Man 1	
Needle position	\$₩	Set the needle position shortcut keys , Key is effective for needle , The cancel key function is set to stop pin。.	PS	
The middle presser foot	<u>t_</u>	Presser foot to set shortcut keys: set or cancel the presser foot function.	0	
Shear line pressure foot	<u>*</u>	The shear line and presser foot set shortcut keys: set or cancel trimmer and presser f	oot function.	
Soft start	\bigcirc	Soft start to set shortcut keys: set or cancel the pedal soft start function.		
Pinnumber set/check choice	\square	1.Implementation of this key, circulating switch display 3 pin number to set the displupper end:A, B, C, DPeriod of pin number,Light corresponding level; Middleend:E, FPeriod of pin number,Light corresponding level; lower extreme:G, HPeriod of pin number, Light corresponding level; 2.Corresponding to AD period of pin number, can set range 0 ~ 15 needle, B paragra needle, among them, the liquid crystal display ABC DEF on each for 10 11 12 13 14		
parameter setting	\mathbb{P}	1.Entering different parameter level On the sewing setting interface, the user can press the button P to enter the Parameter Interface, then the Level I parameters in the parameter list will display. On the sewing setting interface, the user can keep pressing the button for a few seconds to enter the Password Entering Interface. After entering the right maintenance password, then the user can press the button P to enter the Parameter Interface, now the Level I and Level II parameters in the parameter list will display. 2.Password setting On the sewing setting interface, the user can keep pressing the button P for a few seconds to enter the Password Entering Interface, and press the button combination of "burst button + soft start button" to enter the Password Resetting Interface. The three indicators (respectively are Indicator 51, 52 and 53 from left to right/before three lamp, among which one is on) corresponding to the button S indicates the current status. S1 lights up, old password input, ending the key combination trigger key + tangent key, if the correct password into the password reset interface (mistakes have stayed the S1 state), and at the same time 52 light, prompting the input new password and click confirm 33 S key input again when the light is the new password, according to S key after two input if consistent, then set success, return to parameter interfacelf the new password again. If the user presses the button P, the user will be brought back to the interface parameters and no modification will be saved. You can choose from the numbers of 0 to 9 or the letters of A to F for every single character of the password. Please do keep the new password in mind.		
Teaching function		Set or cancel the teaching function.		
Sewing set program	Fis	The number of needles sewing set , Set up a total of 15 segment needle number P1-	PF.	
speed key	€>(Speed down. Keeping pressing to lower speed, the display will automatically switch effective.	to speed set. Simple seam, free seam	
speed key)\$	Speed up. Keeping pressing to increase speed, the display will automatically switch effective.	to speed set.Simple seam, free seam	

Teaching function:
In the long slot (a, four, program seam) mode, long press "T" one second, you can enter the teaching interface, this interface has buttons:
T key, two groups of add-substract key, fill needle key. Role is as follows:
Add-substract key 12: change teaching segments, segment numerical only to accumulate (into the next section teaching automatically save the last needle numerical reduction), '-' key is invalid. Note: when the pedal operation, the key is invalid;
Add-substract key 34: modify teaching pin number, to stop running when the adjust pin number. Fill needle keys: press can manually fill needle, needle change.
T: exit show interface, complete the current segment number teaching (section numerical covering the original mode).
After the pedal shear line, will directly from the show and save the needle numerical, before returning to the fixed length of stitch pattern.

5.Standard needle stitch compensation adjustment

Starting reinforcing	Forward sewing and reverse stitching joint		Reverse stitch number Become less and shorter , To adjust the parameters to a higher value.No.54	1	Forward sewing number Become less and shorter, Adjust the parameters to lower values No.54
-sewing No.54 No.55	Reverse sewing and forward stitching joint		Forward sewing number Become less and shorter ,To adjust the parameters to a higher value No.55	1/1	Reverse stitch number Become less and shorter , Adjust the parameters to lower value No.55
ending reinforcing	Forward sewing and reverse stitching joint		Reverse stitch number Become less and shorter , To adjust the parameters to a higher valueNo.57	1	Forward sewing number Become less and shorter , Adjust the parameters to lower valuesNo.57
-sewing No.57 No.58	Reverse sewing and forward stitching joint		Forward sewing number Become less and shorter ,To adjust the parameters to a higher value No.58	1	Reverse stitch number Become less and shorter , Adjust the parameters to lower value No.58
continuous reinforcing	Forward sewing and reverse stitching joint	M	Reverse stitch number Become less and shorter , To adjust the parameters to a higher value No.60	1/1/	Forward sewing number Become less and shorter , Adjust the parameters to lower valuesNo.60
-sewing No.60 No.61	Reverse sewing and forward stitching joint	1	Forward sewing number Become less and shorter , To adjust the parameters to a higher value No.61	1	Reverse stitch number Become less and shorter , Adjust the parameters to lower value No.61

5. Error codes

Error Code	Contents	Possible reasons	Checking and treatment
E011 E012 E013 E014	Motor signal error	Motor position sensor signal failure	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed.
E015	Model type error	Unable identify operating box model type	Check operating box
E021 E022 E023	Motor overload	motor stall motor overload	If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely;f materials are too thick; Electrical signal detection signal whether the normal.
E101	Hardware drivers fault	Current detection abnormal Driving hardware error	Current detection loop system is working
E111 E112	Voltage too high	High input voltage Brake circuit fault Voltage detection error	properly; Whether the damage to the device driver. System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly
E121 E122	Voltage too low	Actual low voltage Voltage detection is wrong	If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work.
E131	Current circuit fault	Current detection abnormal	Current detection loop system is working properly.
E133	Oz circuit fault	Oz circuit fault	Oz circuit system is working properly.
E151	Magnet circuit error	Over current magnet circuit	If machine head magnet suffers short circuit Electromagnet circuit is working properly.
E201	over current	Current detection error	Current detection loop system is working properly Electrical signal is normal.
E211 E212	Abnormal motor operation	Current or voltage detection error	If electric engine plug is well contacted; If electric engine signal is matched.
E301	Communication error	Sci circuit error	if operation box plug is well contacted; if operation box components are damaged.
E302	Operation inner failure	Sci circuit error	To check whether the operating box is damaged
E402	Pedal ID fault	Pedal verification fault	Pedal connection is loosen.
E403	Pedal zero position fault	The pedal zero position over range	The pedal is damaged or it is not under stop state when correction.
E501	Safety switch fault	Safety switch effective	Put down the head or check turned up switch.
P.oFF	Power off Display	Power off	Wait for power supply to resume.

Note: 1. Sewing abnormal action (speed electromagnet work abnormal) : in the control interface view model is correct;

- 2. Turn up E501 fault when: sure it is normal to switch detection, temporary use can change the P-28 parameters;
 - 3. If the above according to check the project cannot rule out fault, please seek technical support.

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