WR58LC High series manual 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.

		tion that this machine is operated correctly and no man-man-man-man-man-man-man-man-man-man-			
	tem parameter table			default	T ,
0	Project	Content	Setting range	value	L
	Sewing speed	Set sewing speed	200 ~ 3000rpm	2000	
	Soft-start function	0: No soft-start function 1~99: Soft start stitches	0~99	3	T
	Ornamental bartacks	0: Invalid 1: Effective	0/1	1	Т
	Fixed-length seam sewing speed	Set fixed-length seam sewing speed	200 ~ 3500rpm	2000	Т
	Sewing mode	0: Free sewing 1: Simple Sewing	0/1	0	
	Reverse limitted feed speed	Reverse limitted feed speed,when the manual switch closed	500 ~ 1500rpm	700	
	Function of stop after bartack at the start of sewing	Function of stop after bartack at the start of sewing 0: Invalid 1: Effective	0/1	0	T
	The manual switch function of the reverse	0: Only reverse feed stitching 1: And needle compensation	0/1/2	0	1
	feed stitching of sewing	2: Only reverse feed stitching , standby does not work			1
	Soft-start speed 1	The first stitch speed	100 ~ 3000rpm	400	╙
	Soft-start speed 2	The second stitch speed	100 ~ 3000rpm	600	\perp
	Soft-start speed 3	The third stitch speed	100 ~ 3000rpm	600	
	Function of soft-down of presser foot	0: Invalid 1: Valid	0/1	0	
	Enable presser foot lift	0: Disable 1: Enable	0/1	1	T
	Up - position function	0: Invalid 1: Valid	0/1	0	Τ
٦	Safety switch signal mode	0: Normally open 1: Normally closed 2: No protection	0/1/2	0	T
7		The time of soft-down of pressure foot(time		-	T
	The time of soft-down of pressure foot	longer,down more slower)	50 ~ 500ms	300	\perp
	The bottom line magnification setting	0: Invalid 5/10/15/20: Bottom line rate	0/5/10/15/20	0	
7	Initial baseline setting	Initial baseline setting	200 ~ 4000	1600	T
7	Ornamental bartacks pause time	Ornamental bartacks pause time	5~500ms	50	十
-	Standard bartacks,pedal speed source	0: automatic standard bartacks speed			+
	choice	1: pedal analog speed	0/1	0	L
	Piece-rate setting	0:No piece-function 1 ~ 50:(Piece multiples)+1	0~20	0	Ī
	Initial set piece count	Initial set piece count	0~1000	100	t
_	Slow speed	The lowest pedal speed	100 ~ 400rpm	200	十
	Pedal curve selection	0: Normal 1: Slow acc. 2: Fast acc	0/1/2	0	+
-					+
4	Cutting speed	Cutting speed	100 ~ 400rpm	260	+
4	Reverse limitted feed speed enable	0: Disable 1: Enable	0/1	0	+
	Delay Sewing time, when presser foot down	Delay Sewing time, when presser foot down	0 ~ 800ms	50	
	Time of presser foot magnet full voltage output	Time of presser full voltage output	0 ~ 800ms	150	T
	Presser foot magnet voltage output duty	Presser foot voltage output duty cycle	0~100	30	
-	cycle Presser foot magnet lift holding time	Presser foot magnet lift holding time	1 60(-)	12	+
-	Time of reverse feed stitching magnet		1 ~ 60(s)	12	╁
	full voltage output	Time of reverse feed stitching full voltage output	0 ~ 800ms	150	L
	Reverse feed stitching magnet duty cycle	Reverse feed stitching magnet duty cycle	0~100	60	
	Reverse feed stitching magnet holding	Reverse feed stitching magnet holding time	1 ~ 60(s)	25	
+	time Speed of bartack at the start of sewing	Speed of bartack at the start of sewing	100 ~ 3000rpm	1200	+
-	Bartack at the start of sewing	·			+
	compensation 1	Bartack at the start of sewing compensation 1	0~100	20	ļ
	Bartack at the start of sewing compensation2	Bartack at the start of sewing compensation 2	0~100	12	
	Speed of bartack at the end of sewing	Speed of bartack at the end of sewing	100 ~ 3000rpm	1200	Ţ
	Bartack at the end of sewing compensation 1	Bartack at the end of sewing compensation 1	0~100	20	
1	Bartack at the end of sewing compensation 2	Bartack at the end of sewing compensation 2	0~100	12	T
-	Overlapped sewing speed	Overlapped sewing speed	100 ~ 3000rpm	1200	+
-	Overlapped sewing speed compensation	., , ,			+
	1	Overlapped sewing speed compensation 1	0~100	20	Ļ
	Overlapped sewing speed compensation 1	Overlapped sewing speed compensation 2	0~100	12	
	Pedal travel upon start	Pedal position upon start Travel relative to medium pedal	10 ~ 50	30	T
1	Pedal travel upon acceleration	Pedal position upon start acceleration Travel relative to medium pedal	10 ~ 100	55	Τ
1	Pedal travel at highest rotation speed	Pedal position at highest rotating speed Travel	10~150	110	t
-	Pedal travel upon presser foot lift	relative to medium pedal Pedal position upon pedal lift	-100~-10	-30	t
		Travel relative to medium pedal Pedal travel from presser foot lowering position to			H
	Pedal travel upon presser foot lowering	neutral position Travel relative to medium pedal Pedal position upon start trimming without presser	5~50	10	+
	Pedal travel 1 upon thread trimming	foot function Travel relative to medium pedal	-100 ~ -10	-30	
	Pedal travel 2 upon tread trimming	Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal	-100 ~ -10	-60	
	Down needle positioning position	To adjust down needle position	0~240	60	Т
7	Reverse needle lift function	0: Disable 1: Enable	0/1	0	T
	Reversal of needle lift angle	Reversal of needle lift angle	0~90 *	45	T
	Needle position adjustment	Needle position adjustment	0~240°	10	T
_	Stop needle position minor adjustment	Stop needle position minor adjustment	90~110	100	+
		The state of the s	90~110	. 100	
7	Needle bar maximum angle	Needle bar maximum angle	270 ~ 360	360	+

389 Up dead position angle Up dead position angle 270~360 320
90 Option into highling time ault mode, press time black of plant is 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 to enter/exit the selected projects such as the need to exit monitoring interface, according to P keys

Needle bar maximum angle

highest speed of sewing

0~15 Reduce noise

Cutting magnet pull angle

Loose magnet pull angle

To set power angle of shear line

Cutting magnet release angle

parameter set

key execution

0: Fixed sewing reverse 1: Supplementary needle

5: restore the current level factory parameters
8: restore the current level and sewing factory

According to S button, select yes, then press the S

0: Disable; 1~1000(Take hours as a unit)

Needle wear through cloth when used

0: invalid; 1 ~ 15 strength regulation

77 Needle bar maximum angle

78 Key switch function selection

79 return to factory-set parameter

80 highest speed of sewing

Aggravating function/

Cutting magnet pull angle

87 Cutting magnet release angle

86 Power angle of shear line

88 Loose magnet pull angle

Machine needle emphasis function

82 Set period of use

84 Reduce noise

83

85

s 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	1
U2	Motor Current	0.01A	U8	Head type/ Master control program version	1
U3	Motor Voltage	V	U9	Dsp no	1
U4	Pedal voltage	0.01V	vEr	Operation box version of the program	1
U5	Mechanical Angle with	limit	TYPE	Software no	1

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4.Operation	box use				
Function	Button	Described			
Starting reinforcing -sewing	(M)	Execute starting reinforcing-sewing 2 times, to and fro.			
ending reinforcing -sewing	(M)	Execute ending reinforcing-sewing 2 times, to and fro.			
continuou s reinforcing -sewing	⊕	Press treadle ahead for automatic sewing, to and fro, which is set at D and can reach 15times.(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 it. Previous ending reinforcing-sewing setting is invalid if this function is valid.			
parameter setting	©	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-cut ting	*	Set or cancel thread-cutting function.	$\langle \mathfrak{p} \rangle \langle \mathbb{P} \rangle \langle \mathbb{S} \rangle$		
Needle position	(10)	Set the needle position shortcut keys, Key is effective for needle, The cancel key function is set to stop pin_{\circ} .			
The middle presser foot	<u>(11</u>)	Presser foot to set shortcut keys: set or cancel the presser foot function.			
Shear line pressure foot	(M)	The shear line and presser foot set shortcut keys: set or cancel trimmer and p	presser foot function.		
Soft start		Soft start to set shortcut keys: set or cancel the pedal soft start function.			
Pinnumber set/check choice	(S)	1.Implementation of this key, circulating switch display 3 pin number to set the display value upper end:A、B、C、DPeriod of pin number,Light corresponding level; Middleend:E、FPeriod of pin number,Light corresponding level; lower extremer.G、HPeriod of pin number,Light corresponding level; 2.Corresponding to A D period of pin number, can set range 0 ~ 15 needle, B paragraph C pin number, can set range 1 ~ 15 needle, among them, the liquid crystal display A B C D E F on each for 10 11 12 13 14 15 stitches.			
parameter setting		1.Entering different parameter level On the sewing setting interface, the user can press the button P to enter the I parameters in the parameter list will display. On the sewing setting interface, the user can keep pressing the button for a 1 Entering interface. After entering the right maintenance password, then the use Parameter interface, now the Level I and Level II parameters in the parameter 2.Password setting On the sewing setting interface, the user can keep pressing the button P for a Entering interface, and press the button combination of "burst button + soft's Resetting interface. The three indicators (respectively are indicator S1, S2 an lamp, among which one is on) corresponding to the button S indicates the curre input, ending the key combination trigger key + tangent key, if the correct interface (mistakes have stayed the S1 state), and at the same time S2 light, and click confirm S3 S key input again when the light is the new password, a consistent, then set success, return to parameter interfacelf the new password, a consistent, then set success, return to parameter interfacelf the new password, a consistent, then set success, return to parameter interfacelf the new password in choose from the numbers of 0 to 9 or the letters of A to F for every Please do keep the new password in mind.	few seconds to enter the Password or can press the button P to enter the r list will display.		
Teaching function	$\langle \mathbb{T} \rangle$	Set or cancel the teaching function.			
Sewing set program		The number of needles sewing set, Set up a total of 15 segment needle numl	ber P1~PF.		
enood kee-	\bigcirc	Speed down. Keeping pressing to lower speed, the display will automatically sw seam effective.	ritch to speed set. Simple seam, free		
speed key	(1)	Speed up. Keeping pressing to increase speed, the display will automatically sw seam effective.	vitch to speed set.Simple seam, free		
Tooching		I .			

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:

I 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.

I: 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

is turratur t	necare street	COMBC	isation adjustinent		
Starting reinforcin	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
g-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 reinforcin	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
g-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	1/1	Reverse stitch number Become less and shorter, Adjust the parameters to lower value No.58
continuou s reinforcin	Forward sewing and reverse stitching joint	1	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
g-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		Reverse stitch number Become less and shorter, Adjust the parameters to lower value No.61

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 be 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 heen blocked completely; materials are too this Electrical signal detection signal whether the normal.
E101	Hardware drivers fault	Current detection abnormal Driving hardware error	Current detection loop system is working properly; Whether the damage to the device driv
E111 E112	Voltage too high	High input voltage Brake circuit fault Voltage detection error	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 Whet the system voltage detection circuit the norma work.
E131	Current circuit fault	Current detection abnormal	Current detection loop system is working proper
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 prope 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 damage
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 sta when correction.
E501	Safety switch fault	Safety switch effective	Put down the head or check turned up switch.

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

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

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270 ~ 360

0/1

0~15

200 ~ 3500spm

0~1000

0~15

0~15

150 ~ 200

200~300

300 ~ 360

150 ~ 250

360

0

0

2200

0

8

60

260

340

300

II

II

II

II

II

II

II

II

II