

# HIKARI®

专注高端 电脑包缝机的领导者

FOCUSING ON HIGH-END  
COMPUTERIZED OVERLOCK MACHINE LEADER

HP-700 OPERATION PANEL  
操作显示盘

使用说明书  
INSTRUCTION MANUAL BOOK

CE



通过 ISO9001:2008  
质量管理体系认证

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Thank you for selecting our product. The introduction provides necessary knowledge and notes for using.

Please read safety introduction carefully and understand them before using.

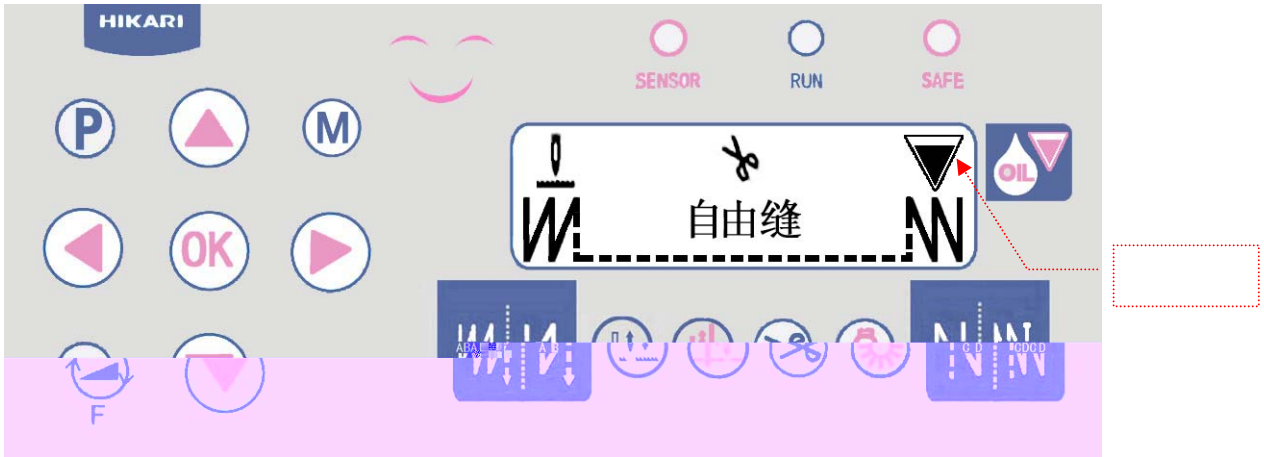
' The content of the introduction will be amended with the improvement of our product, the notice is not announced.

' If you have any doubts or comments about our product and service, please contact after-sale service.

## List

1.	1	1. Instruction of the panel display region	9
2.	1	2. Button instructions of the panel	9
3	2	3. Oil display icon	10
4.	2	4. Sewing pattern	10
5	2	5. Definition of key combination	10
6.	3	6. Display mode and operating method	11
6.1	3	6.1 Technical parameter set	11
6.2	3	6.2 Sewing mode	11
6.3	3	6.3 Fore-tacking sewing mode	11
6.4	3	6.4 Back-tacking sewing mode	12
6.5	3	6.5 Thread trimming set	12
6.6	4	6.6 User parameter set	12
6.7	4	6.7 Adjusting the speed	13
6.8	5	6.8 Needle stop position set	13
6.8	5	6.9 LED brightness adjust	13
7.	5	7. Stitch tracking compensation adjustment	13
7.1	5	7.1 Preparation before adjustment	13
7.2	5	7.2 Adjustment step	13
8.	6	8. Description table of operating panel parameter	15

1.

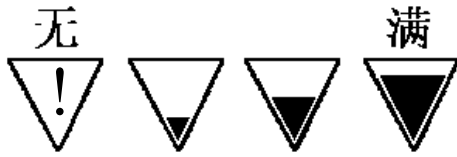


2.

1			1. ; 2.
2			
3		/	1. 2.
4			
5			
6			
7			
8			
9			
10			
11			
12			
13		LED	
14			

3.

油量显示



1		
2		
3		
4		
5		定长缝针数: 15
6	W	

(1)



(2)



(3)



(4)



(5)



(6)





.

.1



6.2



W

6.3



6.4

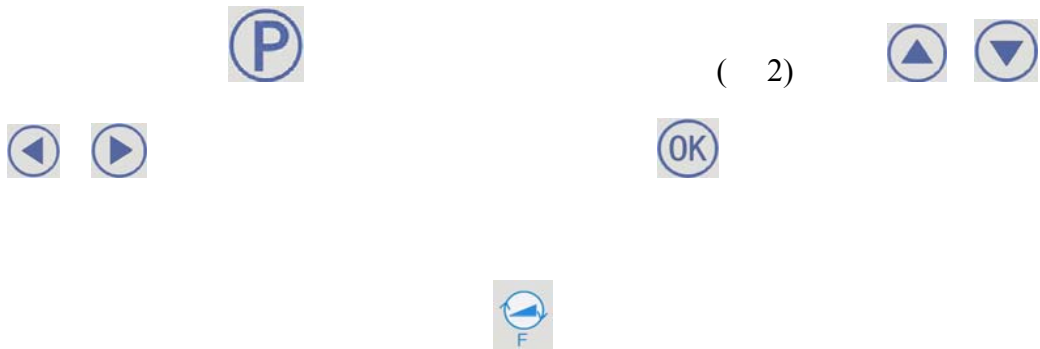


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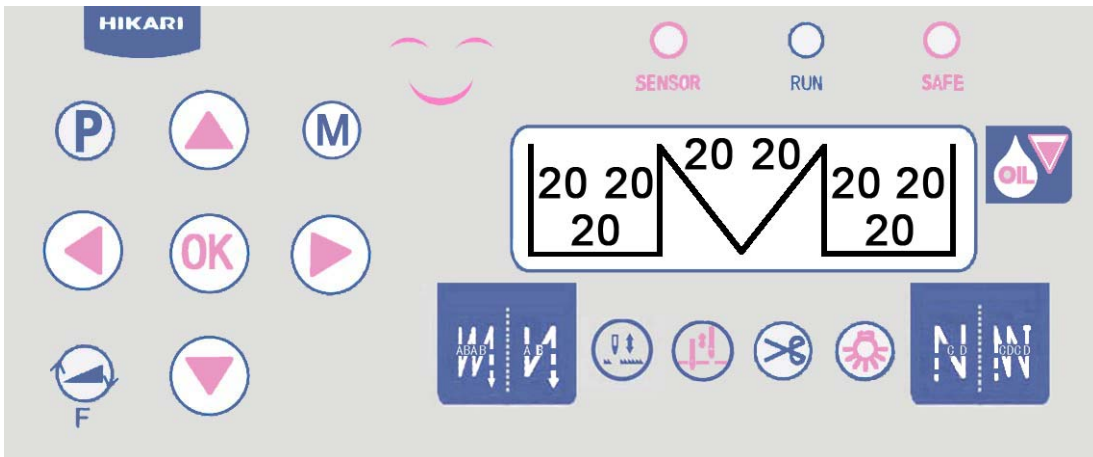




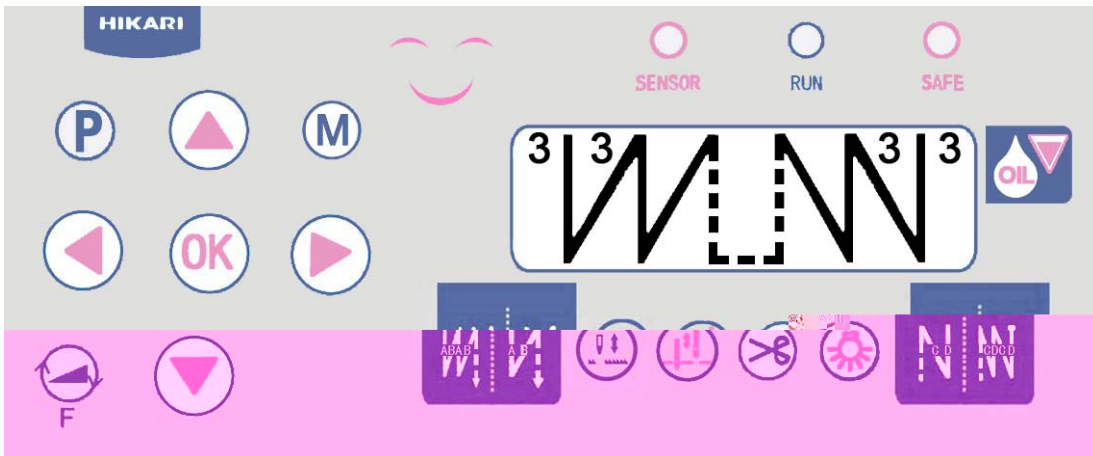
6.6



1



2



6.7



6.8



6.9



4

7.

7.1

1.

3mm

2.5mm

2.

7.2

1)

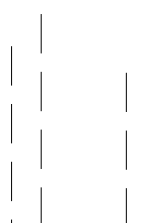
C

4

4

C  
C

1-1  
1-2



1-1

1-2

P42

P42

D

4

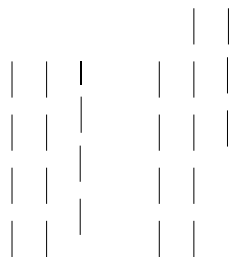
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D  
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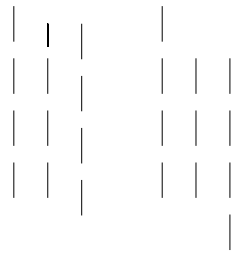
1-3  
1-4







1-3



1-4

P43  
P43

.

P0		50	1~100	%	
P1		8	1 8		8
P2		200	150~500	RPM	
P3		3600	150~5000	RPM	
P4		3000	150~4000	RPM	
P5		1800	200~3000	RPM	
P6		1800	200~3000	RPM	
P7		off	On/off		
P8		off	On/off		
P9	W	1800	200~3000	RPM	W
P15		2500	200~3000	RPM	
P16		50	20~1000	ms	
P17		on	On/off		
P18	/	0	0~1		0 1
P19*		On	On/off		
P21		0	0-2		0: 1: 2:

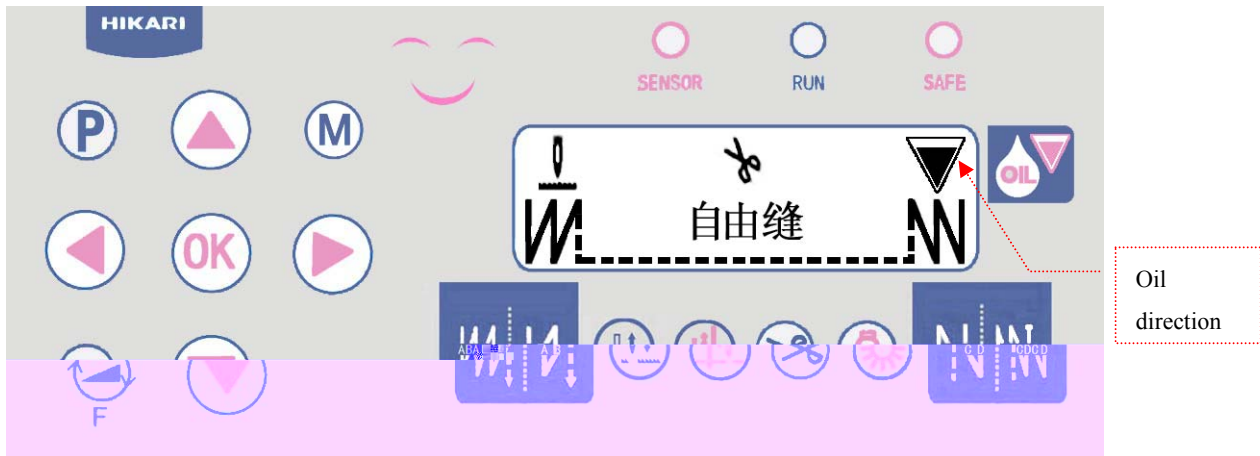


P22		2	0~15		
P23		500	200~3000	RPM	
P24		10	1-100		1
P25		2000	1-9999		
P26		2000	0-9999		
P27		200	20~500	ms	
P28		2	1~50	ms	
P29		2	1~50	ms	
P31		1	0/1		0 1
P34*		On	On/off		
P36		250	200~500	RPM	
P37*		on	On/off		
P40	1	7	0-16		1
P41	2	5	0-16		2
P42	1	7	0-16		1
P43	2	5	0-16		2
P44	W	1	7	0-16	W 1
P45	W	2	5	0-16	W 2
P46		0	0/1		0 1
P47		2000	100-9999	ms	
P48		2000	100 9999	ms	
P54		0	0/1		0 1
P55		1	0/1		0 1
P57		250	20~1000	ms	
P58		2	1~50	ms	
P59		3	1~50	ms	
P60		20	1~120	s	

P61		50	20~800	ms	
P62		50	20~800	ms	
P64*		0	0-900	s	
P65		0	0 1		0 1
P67		800	200-5000	RPM	
P69		1000	100-9999	ms	
P73		off	On/off		
P74	/	0	0 3		0 1 2 3
P76		0	0-9999		1,
P98		0000h	0-9999		
P99		2222h	0-9999		



1. ( : RPM / ; ms ; s ; hour ; )  
1. \*

## 1. Instruction of the panel display region



## 2. Button instructions of the panel

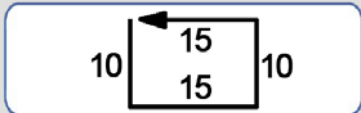
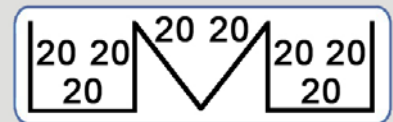
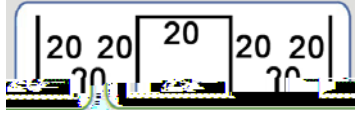
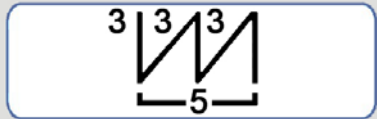
NO.	Icon	Key name	Button function description
1		Parameter set	1. Press once enter the technical parameter adjustment mode; 2. Holding the button 3s Turn on/off the thread clamp
2		Left button	Left move editing area
3		Multi-function button	1. Continuously press the button twice enter sewing speed adjustment mode; 2. Press the button once ,_switch parameter display when machine is sewing.
4		Increase button	Increase parameter
5		OK button	saving confirm
6		Reduce button	Reduce parameter
7		Sewing mode	Select sewing pattern.
8		Right button	Right move editing area
9		Fore-tacking sewing	Circulate selection of non- single- double- four- fore-tacking sewing
10		Mending stitch	Mending half stitch when pressing the key once, it will continuously mend stitch while holding press.
11		Needle stop position	Selection of needle up position or needle down position when stopping the needle.
12		Thread trimming set	Trimming and sweep when pattern operation finished once or canceling the function.

13		LED brightness adjust button	
14		Back-tacking sewing	Circulate selection of non- single- double- four- ,back-tacking sewing







### 3. Oil display icon

















### 4. Sewing pattern

NO.	Pattern name	For example
1	Four-section sewing	
2	Eight-section sewing	
3	Seven-section sewing	
4	Free sewing	
5	Fixed sewing	定长缝针数: 15
6	W sewing	










### 5. Definition of key combination

- (11)   Enter or exit the technical parameter set.
- (12)   Display the version of the panel software.
- (13)   Display the version of the main control box software.


- (14)   Display the type of the machine.
- (15)   Turn on/off the function of foot.
- (16)   Turn on/off the slow-startup
- (17)   Display the current amount of lower thread.
- (18)   Reset the lower parameter will.
- (19)   Turn on/off the oil alarm
- (20)   Turn on/off the auto sewing.

## 6. Display mode and operating method


### 6.1 Technical parameter set

Press  and  at the same time it will enter the technical parameter adjustment mode showing “PSD-0000”. Then input the password(the password is stored in the control box, the default password is 2222).Through pressing the   we can change the corresponding number Through pressing the   will switch editing area then pressing  If the password is correct it enters the technical parameter adjustment mode.Press  saving confirm , Press  exit the technical parameter adjustment mode.


### 6.2 Sewing pattern set

Press Sewing mode ,will be select sewing pattern Circulate selection of four-section sewing, eight-section sewing, seven-section sewing, free sewing, fixed sewing, W sewing.




### 6.3 Fore-tacking sewing mode

Except W mode press the fore-tacking sewing button  the fore-tacking sewing symbol at the corresponding region will be lighted up according to the fore-tacking sewing parameter. Circulate selection of non- single- double- four-, fore-tacking sewing.







## 6.4 Back-tacking sewing mode


Press the back-tacking sewing button  the back-tacking sewing symbol at the corresponding region will be lighted up according to the back-tacking sewing parameter, except W sewing mode. Circulate selection of non- single- double- four- back-tacking sewing.

## 6.5 Thread trimming set

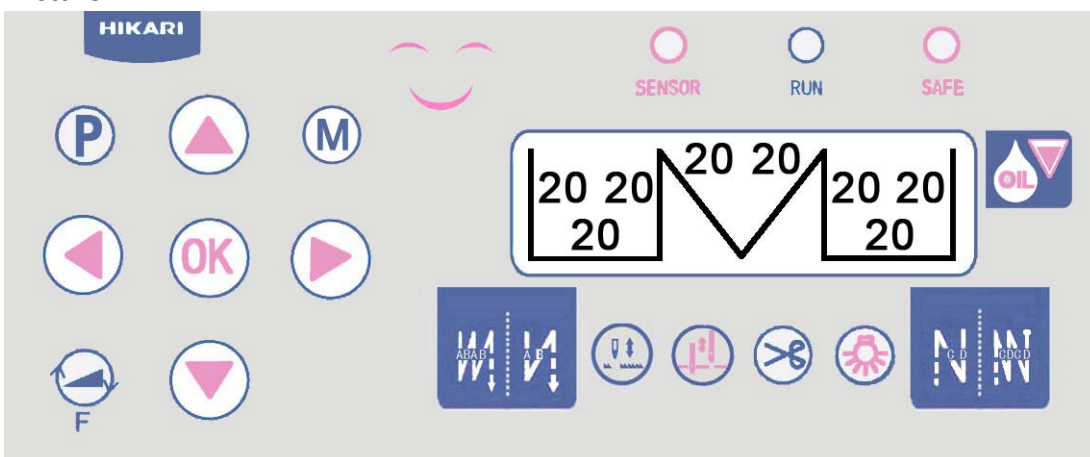
Press the  once the  will be lighted up. It means the trimming function is startup. Then pressing it again the function will be off and  will disappear.

## 6.6 User parameter set

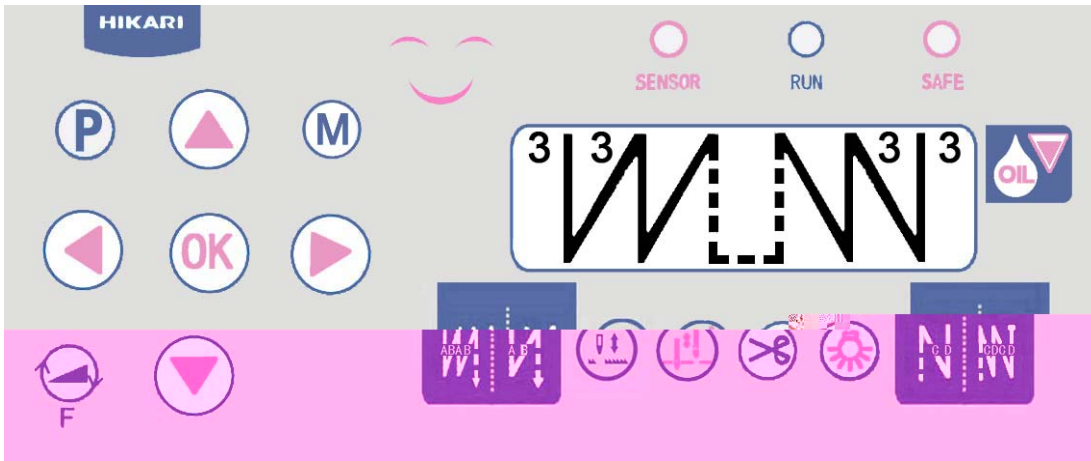
Without the non- Free sewing press once  it will enter the user parameter adjustment mode (picture 2). Through pressing the   to modify parameter number through pressing the   will switch editing area. Press  saving confirm and exit the user parameter adjustment mode.

If there are fixed-parameters, not all parameters can be shown at the same time except free sewing and W sewing. Meanwhile, if you want to check other parameter, press the  to switch display window. Then you can see fixed sewing parameters or sewing stitches. For example, Picture 1 and Picture 12.




Picture 1




Picture 2




## 6.7 Adjusting the speed

At the non-adjustment parameter mode press twice  it will enter the speed adjustment mode. Through pressing the   to modify speed

## 6.8 Needle stop position set

At the non-adjustment parameter mode press once , Selection of needle up position or needle down position when stopping the needle. the symbol at the corresponding region will be lighted up

## 6.9 LED brightness adjust

Press  button will adjusting LED brightness Circulate selection 5 mode.

## 7. Stitch tracking compensation adjustment

### 7.1 Preparation before adjustment

1. Check the default distance of machine head needle.
2. Take the manual reverse sewing mode, sewing eight stitches and check the overlap effect of stitch tracking. If it is fine, carry on to adjust.

### 7.2 Adjustment step

1. Set the sewing mode to be fixed mode after power on, shut the fore-tacking sewing, set backward single-reinforcement sewing, set the parameter of C to be 4 stitch and fixed stitch to be 4 stitches, startup the auto-trigger. Step the pedal forward and check if the stitch tracking is overlap. If overlaps, it indicates that the parameter is suitable.



Otherwise it will cause two situations, and then adjust the parameter according to the situations.

First situation: C section is shorter than normal, as is shown in Figure 1-1

Second situation: C section is longer than normal, as is shown in Figure 1-2

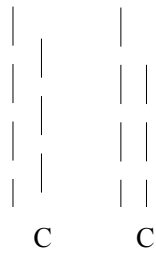


Fig 1-1

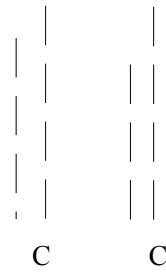


Fig 1-2



## 8. Description table of operating panel parameter

Sequence	Function parameter	Default	Setting range	Unit	Parameter description
P0	pedal slope	50	1~100	%	The bigger the slope is, the larger the low-speed region is, and the faster the speed change is; the smaller the slope is, the narrower the low-speed region is, and the lower the speed change .
P1	Speed proportion	8	1~8		Presser proportion of the maximum speed of reverse sewing. The maximum seed is equally divided into eight parts, current speed can be modified through adjusting parts.
P2	System minimum speed	200	150~500	RPM	The minimum speed of motor when sewing.
P3	Maximum speed of the free sewing	3600	150~5000	RPM	The maximum speed of motor at the free sewing.
P4	Fixed sewing speed	3000	150~4000	RPM	Auto-trigger speed of fixed sewing.
P5	Fore-tacking sewing speed	1600	200~3000	RPM	Sewing speed of fore-tacking during operation.
P6	Back-tacking sewing speed	1600	200~3000	RPM	Sewing speed of fore-tacking during operation.
P7	Suspend when the fore-tacking finished.	off	On/off		Pedal trigger is needed to continue operating when suspend at fore-tacking finishing.
P8	Suspend when the back-tacking finished.	off	On/off		Pedal trigger is needed to continue operating when suspend at back-tacking finishing.
P9	W sewing speed	1600	200~3000	RPM	Sewing speed at W sewing mode.
P15	Maximum speed of reverse sewing	2500	200~3000	RPM	Maximum speed of reverse sewing.
P16	Working time of thread sweep	50	20~1000	ms	Working time of thread sweep electromagnet.

P17	Whether the reverse sewing key will be absorbed when the motor stops.	on	On/off		When the motor stops, and the key pressed, whether the electromagnet acts or not.
P18	Stitch/speed priority	0	0~1		Stitch or speed priority setting during sewing: 0:stitch priority 1:speed priority
P19*	Foot presser switch	On	On/off		Turn on/off the function of foot presser.
P21	Selection of counting function	0	0~2		0:Non-counting function 1:Bobbin thread counting function 2:Trimming thread counting function
P22	Slow-startup counting	2	0~15		Stitches when sewing at slow-startup speed
P23	Slow-startup speed	500	200~3000	RPM	The sewing speed at slow-startup.
P24	Lower thread base number	10	1~100		How many stitches changes on lower thread, the current count change one unit.
P25	Total number of Lower thread	2000	1~9999		Total number of lower-thread setting.
P26	Current counting	2000	0~9999		Current amount of lower thread.
P27	Full PWM on time of reverse	200	20~500	ms	Initial startup time of reverse sewing electromagnet.
P28	PWM on time of reverse sewing	2	1~50	ms	PWM on time of reverse sewing when the electromagnet holding on.
P29	PWM off time of reverse sewing	2	1~50	ms	PWM off time of reverse sewing when the electromagnet holding on.
P31	The thread tension switch	1	0/1		Set the electric thread tension. 0 turn off 1 turn on
P34*	Automatic finding needle position	On	On/off		Whether automatic finding the needle up position at PWM on time
P36	trimming speed	250	200~500	RPM	Operating speed when trimming.

P37*	Automatic lift foot presser of half back step	on	On/off		Start or cancel automatic lift foot presser of half back step.
P40	Fore-tacking sewing compensation parameter 1	7	0-16		Fore-tacking stitch sewing compensation parameter 1.
P41	Fore-tacking sewing compensation parameter 2	5	0-16		Fore-tacking sewing stitch compensation parameter 2
P42	Back-tacking sewing compensation parameter 1	7	0-16		Back-tacking sewing stitch compensation parameter 1
P43	Back-tacking sewing compensation parameter 2	5	0-16		Back-tacking sewing stitch compensation parameter 2.
P44	W sewing compensation parameter 1	7	0-16		W sewing stitch compensation parameter 1
P45	W sewing compensation parameter 2	5	0-16		W sewing stitch compensation parameter 2
P46	Manual test mode switch	0	0/1		0 normal operation mode 1 test mode
P47	senescent pause time	2000	100-9999	ms	The interval between each operation
P48	Operating time of test mode	2000	100 9999	ms	Each operating time of the test mode.(valid at no localizer)
P54	safety switch signal type	0	0/1		0: open 1 shut
P55		1	0/1		
P57	Startup time of lifting foot presser	250	20~1000	ms	Initial startup time of lifting foot presser electromagnet.
P58	PWM on time of lifting foot presser	2	1~50	ms	PWM on time of lifting foot presser when the electromagnet holding on
P59	PWM off time of lifting foot presser	3	1~50	ms	PWM off time of lifting foot presser when the electromagnet holding on.

P60	Protection time of foot presser lifting	20	1~120	s	Protecting time of foot presser lifting during working
P61	Delay time of lifting foot presser	50	20~800	ms	How long will it be to start to lift foot presser after the motor stops.
P62	Delay time of downing foot presser	50	20~800	ms	How long is it allowed to startup after foot presser is down.
P64*	Automatic lifting foot presser time after power on	0	0-900	s	Time of automatic lifting foot presser after power on.
P65	Function selection of cloth edge sensor	0	0 1		0 no cloth edge sensor 1 cloth edge sensor
P67	Speed of cloth edge	800	200-5000	RPM	Operating speed when detecting cloth edge signal.
P69	Delay-startup time of cloth margin	1000	100-9999	ms	Delay-startup time when detecting cloth head signal.
P73	Cloth edge sensor	off	On/off		Whether there is an external cloth edge sensor.
P74	Selection of back stitch/ foot presser lifting pneumatic	0	0 3		0 all electromotion 1 backstitch pneumatic 2 presser foot pneumatic 3 all pneumatic
P76	Number of trimming	0	0-9999		Adding 1 to the counter after trim, clear the counter to zero when it reaches max.
P98	Parameter recover to default	0000h	0-9999		
P99	Technical parameter password	2222h	0-9999		

Note 1 common parameter description RPM: round per minute; MS: millisecond S :second  
H :hour

2 The parameters marked with \*means that they should re-power after amended.

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This manual is only for reference.

IF there is any modification , we apologize for the changing hence caused.