HL989 Instructions v1.1

1. Safety instruction

- 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 Imin 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.

1.4 Lead where potential dangers exist.

Used where high voltage and electric danger exist.

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

2. Operation box use

. Operation box	-				
front Reinforcing-sewing	141	circulation: front Reinforcing-sewing / front double Reinforcing-sewing / front Four solid Reinforcing-sewing /turn off			
back Reinforcing-sewing	M	circulation: back Reinforcing-sewing / back double Reinforcing-sewing /back Four solid Reinforcing-sewing /tum off			
Fixed seam pattern key	A≈D €®	After this function is enabled, the front and rear fixed seams can be sewn according to the self-editing pattern			
Continuous Reinforcing-sewing	₩	circulation:w sewing Free seam			
Scissors function key	>3	Scissors function on and off			
Stop needle selection key	\$ ₽	Up and down needle selection key			
The speed and key	25	Speed up. Keeping pressing to increase speed, the display will automatically switch to speed set. Simple seam, free seam effective.			
The speed reduction key	£	Speed down. Keeping pressing to lower speed, the display will automatically switch to speed set. Simple seam, free seam effective.			
Presser foot function cycle key	門	Foot presser function cycle: middle stop lifting foot/cutting line after lifting foot/middle stop cutting line after lifting foot/closing			
Parameters setting key	P	1. Enter the level of different parameters (parameters are divided into 3) sewing set interface under short press P into the parameter interface, the level for the I parameter display parameter list. Long press the "P" button in the sewing setting interface to enter the "password input interface". After entering the correct maintenance password, press the "P" button to enter the "parameters interface". At this time, the parameters of level I and II in the parameter list are displayed			
Identify key	S	identify key (2) for the belt clip line function model, the strength of long press this button to display the thread clamp, LCD display "[7]", press the key again to exit			
Left or right key	<>	Under normal sewing interface display around several switch Figure shows around several switch gap setting			
add-substract key	+ -	Under normal sewing interface 1. Adjust the stitch size 2. According to several numerical and subtract (S key seam free mode into the display number segment) 3. The parameter value plus or minus			
A seam	ļ=	Circulation: multiple seams/free seams Able to set several sections of several stitches, each section can set a range of 0 ~ 99 stitches			
Several seams	PI	Circulation: multiple seams/free seams Able to set several sections of several stitches, each section can set a range of $0 \sim 99$ stitches			
Section stitch pattern self-knitting mode	x1 ~ xH ——⇒	Circulation: multi - section self - stitch/free stitch Able to set several sections of number sewing, each section can set the range of 0 ~ 99 stitches, each section of stitch length pattern can be knitting			
Trigger function key Settings	0	1. Effective (on/off) in fixed-length seam mode (one-section seam, multi-section seam, multi-section seam self-knitting pattern) 2. W seam mode Open automatically			
Motor Angle adjustment/trial teaching function	T	Neam mode - Open automatically Debug mode shortcut key in free seam mode (long press for more than 3 seconds) In fixed-length seam mode, try teaching mode (press for longer than 1 second)			
Thread clamp function	-)}(2. in incovering in scali mode, by teaching mode (pless for longer than 1 sections) Thread clamp function on and off. Electronic tension is enabled after open it			
Anti-nest function	8	Anti-nest function on and off,is suitable for the machine with Anti-nest equipment			
Close stitch function	13	Close stitch function on and off. After opening, add one more stitch, Enhance the reinforcing-sewing effect and reduce thread			
Three - segment mode switching		Short press to switch one-stitch sewing/multi-stitch sewing/free sewing			
Reset setting	(NRA/NR Reser	Under standby interface, long press the Reset button for 1.5 seconds			
special sewing	N	special reinforcing-sewing			
	1				

Notw: This key pattern is adopted by the standard graph, and the actual graph is mainly pasted on the film. The table is for reference only o

3. Mode Settings

Debug mode: After entering the normal sewing mode, press the right side 4 seconds " T ", enter debug mode. If you want this pattern to return to normal mode, press " P

Stitch length Adjustment Mode: After entering sewing mode normally, long press. "" "3seconds. Entering debug mode, press. "" "or. "", switch to parameter P-6, press. then the meahine can be zero position correction, switch to parameter P-7, press. can correct the go-stitch length; switch to parameter P-8, press. can correct the reverse-stitch length; all the corrections are savec to exit by press. "" enter parameter interface, enter "P79" will displays "0", Press "+" to "8", press. "" display "no", Then press. "+" to "yes", press. "" display "no", Then press. "+" to "yes", press. "" "

Pattern editing settings interface. After entering the normal sewing mode, press the "Exercise to enter the setting, screen display "1" 3.0 01", In this case, the number of stitches and the stitch length of the first stage can be carried. outIn this case, the number of stitches and the stitch length of the first stage can be carried out, Press left or right to select the item to be set: The first paragraph is set up. Press left or right to switch to the left. the number flashes. Press the plus or minus key to switch to other segments settings. If the current number of stitches is zero, the next setting can not be made: After all the needle distance and frame count settings are complete, press the "S" key to save and return to the "d1" screen. Press the "P" key to exit without savings. If you war this pattern to return to normal mode, press "P" key to exit into normal mode.

4. Error codes

Error Code	Contents	Possible reasons	Checking and treatment	
E011 E012	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.	
E021 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 properly; Whether the damage to the device driver.	
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;	
E121 E122	Voltage too low	Actual low voltage Voltage detection is wrong	System voltage detection circuit are working properly. 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.	
E134	DBFLT malfunction	Automatic resistance circuit failure	Brake resistor plug is in good contact Brake resistance is damaged	
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	
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	check whether the operating box is damaged.	
E303	SPI Communication breakdown	Sci circuit error	check whether the main control board is damaged.	
E304	HMI From the main chip communication failure	Sci circuit error	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 E502	Safety switch fault Fuel fault alarm	Safety switch effective Fuel fault alarm	Put down the head or check turned up switch. Add oil Tips	
E601	Hardware drivers fault	Feed motor STEP2 hardware overcurrent	Current detection loop system is working properly;Whether the damage to the device driver.	
E602	Hardware drivers fault	Feed motor STEP2 software overcurrent	Current detection loop system is working properly;Whether the damage to the device driver	
E603	Hardware drivers fault	Feed motor STEP2 Current detection circuit	Current detection loop system is working properly;Whether the damage to the device driver.	
E604	Motor signal error	Feed motor STEP2 The initial mechanical angle	Feed motor connector is a good contact	
E605	Motor signal error	Feed motor STEP2 at the start, Encoder or rotor stuck	Feed motor connector is a good contact Machinery is stuck	
E606	Hardware drivers fault	Feed motor STEP2 Motor winding circuit	Current detection loop system is working properly; Whether the damage to the device driver.	
E607	Hardware drivers fault	Presser foot trimming motor STEP1 hardware overcurrent	Current detection loop system is working properly;Whether the damage to the device driver.	
E608	Hardware drivers fault	Presser foot trimming motor STEP1 software overcurrent	Current detection loop system is working properly;Whether the damage to the device driver.	
E609	Hardware drivers fault	Presser foot trimming motor STEP1 Current detection circuit	Current detection loop system is working properly;Whether the damage to the device driver.	
E610	Motor signal error	Presser foot trimming motor STEP1 The initial mechanical angle	Presser foot trimming motor connector is a good contact	
E611	Motor signal error	Presser foot trimming motor STEP1 at thestart,Encoder or rotor stuck	Presser foot trimming motor connector is a good contact Machinery is stuck	
E612	Hardware drivers fault	Presser foot trimming motor STEP1 Motor winding circuit	Current detection loop system is working properly;Whether the damage to the device driver.	
E613	Hardware drivers fault	The feed motor STEP2 is running ,Encoder or rotor stuck	Feed motor connector is a good contact Current detection loop system is working properly; Whether the damage to the device driver.	
E614	Hardware drivers fault	The Presser foot trimming motor STEP is running ,Encoder or rotor stuck	Feed motor connector is a good contact Current detection loop system is working properly; Whether the damage to the device driver.	
P.oFF	Power off Display	Power off	Wait for power supply to resume.	
EvAL	Trial expired	Trial expired	Contact the dealer processing	
L.bob	The bottom line tips	The bottom line count value is negative	After replacing the bottom line, press P to cancel the Alert Status	
P.bob	Remind of counting by piece	The number of counting is 0	Press S key to enter the interface, and long press "front seam" button for more than 2 seconds to cancel the prompt state	

5. System Parameter Table:

0. 2,2	stem Parameter Table:			I .	The	ı
D.O.I	Project	Content	Setting range	step pitch	default value	Level
P-01 P-02 P-04	Sewing speed Soft-start function Fixed-length seam sewing speed	Set sewing speed 1-9; Soft start stitches Set fixed-length seam sewing speed	200~5000(rpm) 0~9 200~4000(rpm)	100 1 100	3700 2 3000	I I
P-06	Zero pitch correction value	When the needle pitch is set to 0mm, fine the value so that the actual sewing needle pitch is zero	50~150	1	100	I
P-07 P-08	Positive needle distance correction value Anti-needle distance correction value	Magnification positive sewing distance (Sewing needle fixed distance) Enlarge reverse stitches Distance Scale	50~150(%) 50~150(%)	1	100	I I
P-09	Back stitch speed limitation	(Sewing needle fixed distance) can keep needle from breaking while backstitching 0:Set the number of stitches to set the value	500~1500(rpm)	50	800	I
P-10	Set the length of the stitch from the set number	1:When the length is set to self-made, the number is the number of the pattern, that is, the total number of stitches is the number of stitches × set the value	0/1	1	1	I
P-12 P-13	Height of middle presser foot lifting (valid stepping) Maximum height of presser foot lifting	Setting height of presser foot lifting when sewing half Setting Maximum height of presser foot lifting after trimming	0~100 0~100	1	60	II
P-14	(valid stepping) Speed of presser foot lifting (valid stepping)	Stepping speed of presser foot lifting	20~300(rpm)	10	200	II
P-15 P-16	Speed of presser foot releasing (valid stepping) Loose wire electromagnet duty cycle	Stepping speed of presser foot releasing Loose wire electromagnet intensity adjustment(Thin cloth)	20~300(rpm) 0~100	10	120	II
P-17		Cutting line for electromagnet: When the shear line loose line duty ratio (too small will affect the shear line	0~100	1	50	II
F-1/	Cut and loosen duty cycle	electromagnet suction strength) Cutting line for step: Loose line efforts to adjust the (light)	0~100	1	30	11
P-18	Front reinforcing-sewing setting after the front fixed joint is connected	Immediately after the end of front reinforcing-sewing, step on the cutting line without the function setting of back reinforcing-sewing 0: unavailable 1: available	0/1	1	0	I
P-19 P-20	Solid after before sewing stop Function selection of machine head button	O: unavailable l: available O: invalid 1: Manual thread cutting while standby 2: Manual presser foot after trimming	0/1 0/1/2	1	0	I
P-21 P-22 P-23	soft start speed 1 soft start speed 2 soft start speed 3	speed of the 1 st needle of soft start speed of the 2 nd needle of soft start speed of the 3 rd-9 lh needle of soft start	100~3000(rpm) 100~3000(rpm) 100~3000(rpm)	50 50 50	400 1000 1500	I I
P-24	Presser foot soft lowering function	Setting to protect damaged the fabric to slow down the presser foot lowering speed	0/1	1	1	I
P-25 P-26	Presser foot lift function Function of over thickness	0: unavailable 1: available Setting the function of over thickness 0: unavailable 1: available	0/1/2 0/1	1	0	I
P-27	Power on and positioning	The function setting of automatically finding the needle position when the power is on 0; unavailable 1; available	0/1	1	0	I
P-28	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	1	0	I
P-29 P-30	Presser foot soft lowering time Baseline count enable	To set presser foot soft lowering time The longer time the lower speed of the presser foot 0: unavailable 1: available	100~500 (ms)	5	50	II
P-31 P-34	Baseline initial value setting Standard joint speed mode selection	Baseline initial value setting Select 0 automatic for standard joint speed mode; 1 pedal control	20~4000 (0.1m) 0/1	20	1600	I II
P-35 P-36	multiple ratio of counting by piece Setting initial value of counting by piece	Setting of multiple ratio of counting by piece Setting initial value of counting by piece	0~50 0~1000	1 5	0 100	I
P-37 P-38	Time of thread wiper Setting function of choosing counting by	Time of thread wiper 0: add 1: subtract	0~800 (ms) 0/1	10	40 0	II
P-41 P-42	Low speed Pedal curve selection	The lowest speed of pedal Pedal speed adjustment 0: normal 1: Slow acceleration 2: Ouick	100~500(rpm) 0/1/2	10	200	I I
P-44	thread-cutting speed	acceleration thread-cutting speed	100~500(rpm)	10	300	I
P-45 P-46	Back-tracking speed limit function presser foot lifting delays sewing	Back-tracking speed processing can prevent reverse sewing needle breakage 0:1: infinite speed limit 2: the speed limit delay with presser foot lowered	0/1/2 0~800(ms)	1	0	I II
P-47 P-48	When running, the knee presses the foot to judge the speed When running the knee is raised by the foot	When running the knee presses the foot to judge the speed When running the knee is raised by the foot	200~1000(rpm) 1~100	50	500	II
P-48 P-49 P-50	Press foot holding time output time of total pressure of presser foot	When running the knee is raised by the foot Lift the pressure foot after holding time to force off output time of total pressure of presser foot lifting	1~100 1~60(s) 0~800(ms)	1 10	25 150	II II
P-51	lifting output duty cycle of presser foot lifting hold time of presser foot lifting	output duty cycle of presser foot lifting hold time of presser foot lifting	0~800(ms) 0~100	1	40	II
P-53 P-56	starting reinforcing-sewing speed	starting reinforcing-sewing speed	100~3000(rpm)	50	2200 2200	I I
P-56 P-59	ending reinforcing-sewing speed Continuous reinforcing-sewing speed	ending reinforcing-sewing speed Continuous reinforcing-sewing speed	100~3000(rpm) 100~3000(rpm)	50	2200	I
P-60	Bartack stitch cancel speed limit	The software has speed limited 1: No speedlimited (The stitch length may be unstable when stitch length is large and the speed is high)	0/1	1	0	I
P-61	A switch to cancel the angle limit when change stitch length	0: Change the stitch length within the limiting angle 1: Vhange stitch length at any angle	0/1	1	0	I
P-62	Pedal travel upon start	(The stitch length may not coincide, or the needle may break) Pedal position upon start Travel relative to medium pedal	10~50(0.1°)	1	25	II
P-63	Pedal travel upon acceleration	Pedal position upon start acceleration Travel relative to medium pedal	10~100(0.1°)	1	50	II
P-64	Pedal travel at highest rotation speed	Pedal position at highest rotating speed Travel relative to medium pedal Pedal position upon pedal lift	10~150(0.1°)	1	110	II
P-65 P-67	Pedal travel upon presser foot lift Pedal travel 1 upon thread	Travel relative to medium pedal Pedal position upon start trimming without presser foot function	-100~-10(0.1°) -100~-10(0.1°)	1	-30 -30	II
P-68	Pedal travel 2 upon thread	Travel relative to medium pedal Pedal position upon start thread trimming with presser foot function	-100~-10(0.1°)	1	-60	II
P-69	Down needle positioning position	Travel relative to medium pedal To adjust down needle position Reversal of needle lift function after thread	0~240	1	175	I
P-70 P-71	Reverse needle lift function Reversal of needle lift angle	trimming 0: unavailable 1: available Reversal of needle lift angle	0/1 0~45°	1	20	I
P-72	Thread clamp strength adjustment	Adjust the thread clamp strength size 0: Cli p line function is invalid 1-9: Three Intensity Adjustment	0~9	1	7	I
P-73 P-74	Thread pressing actuation angle Thread pressing release angle	Thread pressing actuation angle Thread pressing release angle	10~150° 160~300°	5	100 270	I I
P-75 P-77	Needle position adjustment Setting of beauty sewing Beauty sewing (close sewing) mode setting	Needle position adjustment 0; unavailable 1; available 1; Close stitch on start sewing 2; Close stitch on end-sewing 3;	0~240 0/1	1	33	I
P-78 P-79	return to factory-set parameter	Close stitch on both start nad end sewing Special functional parameters 5/8: Restore factory parameters	1/2/3 0~15	1	0	II
P-80 P-81	highest speed of sewing Pedal speed percentage	highest speed of sewing Pedal speed percentage	300~5000(rpm) 50~100	100	4000 100	II
P-83 P-84	Strength function Function of cutting line and adding force	Try if the needle can't penetrate the cloth. 0: invalid; $1\sim15$: intensity adjustment Effective when the cutting wire is an electromagnet; 0: invalid; $1\sim15$: intensity	0~15 0~15	1 1	0	II
P-88 P-89	Loose line suction Angle Loose line release Angle	adjustment Loose line suction Angle Loose line release Angle	0~360 0~360	2 2	180 350	II
P-90 P-91	Language selection setting Change pitch selection	Setting of language: 0: turn off 1: Chinese 2: English Change pitch selection 0:Changes Allowed 1:Allowed to change	0~2 0~1	1	0	II
P-92 P-93	Pedal presser foot lift confirm time The neutral position of the pedal	Pedal presser foot lift confirm time Trimming the neutral position of the pedal	10~300(ms) -15~15(0.1degree)	10	80	II II
P-95	Anti-nest function selection	Anti-nest function selection: 0: hread clamp type 1: Anti-next type 2: thread wiper type	0/1/2	1	0	II
P-100 P-101	The voltage at the zero position of the knee sensor	Knee by function setting: 0: unavailable 1: available The voltage at zero position of knee by's presser foot (Unit:0.01V)	0/1 0~500	5	270	II
P-102	Knee sensor's voltage of maximum travel distance	Knee sendor's voltage of maximun stravel distance (unit:0.01V) 0:Line tension control	0~500 0/1	5	60	II
P-103 P-104	Line tension / loose line function switch Pattern stop function enable	Cordinary loose line electromagnet control unavailable 1: Stop the needle need to go through the current number of pattern striches	0/1	1	0	II
P-105 P-106	Presser foot height sensor function setting The voltage adjustment at zero position of presser foot height sensor	Presser foot height sensor function setting 0: unavailable 1: available The voltage adjustment at zero position of presser foot height sensor (unit:0.01v) (presser foot drop, feed dog is under the table)	0/1 0~250	1 1	1 215	II II
P-107	Overthickness detection sensitivity setting	Presser foot height sensor's coltage setting of overthickness detection Unit:mv) (Relative to the zero position voltage)	0~500	5	100	II
P-109	Force adjustment of electromagnet for presser foot lifting	Ont.im/ (Relative to the zero position voltage) Force adjustment of electromagnet for presser foot lifting (Cushion when press foot is absorbed) Increase tension when sewing thick material	50~100 0~10	1	80	II
P-110 P-111 P-112	Material thickness and tension control Overthickness sewing speed Overthickness stitch offset coefficient	Limit speed of overthickness Overthickness stitch offset deals	0~10 500~3000(rpm) 50~150(%)	1 50 1	0 1500 120	II II
P-113	Needle compensate stitch length mode	Needle compensate stitch length mode0: Invaild:vaild (press P114 to set stitch length) Needle compensate stitch length setting	0/1	1	0	I
P-114	Needle compensate stitch length setting	Parameter range of Stitch length 5mm type(1.0mm\u00d5.0mm) Parameter range of stitch length 5mm type(1.0mm\u00d7.0mm)	10~50 (70)	1	35	I
P-115	Reverse sewing button function setting	0: reverse sewing 1: tightly sewn 2: reverse sewing 3:reverse sewing+reverse sewing	0~3	1	0	II
P-116	fill needle button function setting	0: reverse sewing 1: tightly sewn 2: reverse sewing 3:reverse sewing 4: reverse sewing 4: reverse sewing 5: reverse sewing 6: reverse sewing 6: reverse sewing 6: reverse sewing 7: reverse sewing 6: reverse sewing 7: reverse sewi	0~3	1	2	II
P-117 P-118 P-119	Dense needle pitch setting Number of pretty sewing needle setting Pretty sewing needle distance setting	Head button stitch set Number of pretty sewing needle setting Pretty sewing needle distance setting	50~150 1~10 50~150	1 1 1	110 1 110	II II
P-121 P-122 P-123	Start trimming angle of Paragraph 1 Paragraph 1 stroke of trimming Start trimming angle of Paragraph 2	Start trimming angle of Paragraph I Paragraph I stroke of trimming Start trimming angle of Paragraph 2	200~300 0~100 250~360	2 1 2	230 40 330	II II
P-123 P-124 P-125	Paragraph 2 stroke of trimming Stop and trimming during fixed-length	Start trimming angle of rangraph 2 Paragraph 2 stroke of trimming 0: invaild 1: vaild	0~100 0/1	1	65	II
P-126 P-127	loose thread enable when start sewing Delay before start-sewing loose	0; invaild 1; vaild Delay before start-sewing loose thread	0/1 0~1000	1 10	1 100	II
P-128	thread Action time of loose thread when start-sewing	Action time of loose thread when start-sewin	0~1000	10	200	II
P-129 P135 P136	Display backlight brightness Setting Midway reverse function selection The number of midway stitch set	Display backlight brightness Setting 0: unavailable 1: available Pin setting	0~10 0~1 1~50	1 1 1	5 0 4	I I I
P137	Seam midway down the number of times back and forth set	Set times	1~10	1	1	I
P-138 P-139 P-140	Lock screen function setting Lock screen time setting Delay time before thread hooking of	Lock screen function setting: 0: invalid 1: valid Lock screen time setting: 0-240 (s) The delay time between the end of trimming and the hook	0~1 0~240 0~500ms	1 1 5	1 2 50	I I II
P-140 P-141 P-142	Anti-nest Thread hooking time of Anti-nest Delay after Anti-nest hook	The delay time between the end of trimming and the hook The action time of the hooked electromagnet The delay time of the hook electromagnet turning off	0~500ms 0~500ms 0~500ms	5 5	50 50 50	II II
P-143	Thread hooking duty ratio of Anti-nest	The delay time of the mook electromagnet turning off Adjust the action force of the hooked electromagnet The work time of the suction valve	0~100	1	100	II
P-144 P-145	Anti-nest suction work time Thread-straight work time of Anti-nest	The work time of a thread-straight solenoid	0~2000ms 0~500ms	10 5	250 50	II
P150	Maximum stitch length setting	Maximum needle distance setting stitch length 5mm model parameter scale (1.0mm-5.0mm) stitch length 7mm model parameter scale (1.0mm-7.0mm)	10~50 (70) mm	1	50	II
P-151	First off-line prevented stitch length	0.invaild 1.vaild	0~1	1	0	II
1-151		Stitch length setting	10~50	1	40	II
P-152	First off-line prevented stitch length setting	Parameter range (1. Ömm~5. Omm)		-		
		Parameter range (1.0mm ² 5.0mm) 0: Invalid 1: valid (Press once valid, press again cancel, such as close sewing, over thickness, presser foot) 0: Needle bar light off 1-5: Adjust the brightness of needle bar lamp of 5	0~1	1	0 5	II