Full automatic integrated postbed machine sewing series manual V1.1

4. Operation box

Button

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Described

Execute starting reinforcing-sewing $2\ {\rm times},\ {\rm to}\ {\rm and}\ {\rm fro}.$

Execute ending reinforcing-sewing 2 times, to and fro.

Function

reinforcing-

Starting

sewing ending reinforcing-

sewing

free-stvle

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.

volt	age.	ast imin and then can open control box cover,			ous nign	free-style sewing	Ľ			the middle, behind for thread-cutting and thread w			
1.4	Used where potential dange Used where high voltage and				damago	continuous reinforcing sewing	- <u>M</u>	2、Continuous pressed, and	reinforcing-sewing is in trigger corresponding trigger light of pr	o and fro, which is set at D and can reach 15timm mode by default, treadle doesn't need to be kept eset sewing is solid lit. is invalid if this function is valid.			
	System parameter table	ear on condition that this machine is operated o	correctly and n	o man-made	damage.	preset sewing	je Izža	2.Sewing will 3.Ending rein		set at E or E, F, G, H. fted; press treadle again, it will go on with the read-cutting and thread wiping will be automati			
o	Project	Content	Setting range	default value	Level	parameter setting	Ô	1. For preset sewing. Trigger treadle and the system will automatically cor sections; the treadle doesn't need to be kept being pressed.					
	Sewing speed Soft-start function	Set sewing speed 1 [°] 9: Soft start stitches	200~3500rpm 1~9	2500 3	I	thread-cutt	ti 😽		thread-cutting function.	g mode means that it is trigger mode by default.			
	Ornamental bartacks Fixed-length seam sewing speed	0: unavailable 1: available Set fixed-length seam sewing speed	0/1 200~3500rpm	1 2000	I	ng needle-lift			-	to the length of time is different, complementar			
	Simple sewing mode Settings	0: free-style sewing 1: Simple sewing 2: preset sewing 3: continuous reinforcing-sewing	0/1/2/3	0	Ι	ng/stitch			dle or continuous feeding half ne				
-	Back stitch speed limitation Solid after before sewing stop	can keep needle from breaking while backstitching 0: unavailable 1: available	500~1500rpm 0/1	700 0	I I	Needle position	15	Set the needl stop pin.	e position shortcut keys, Key is	effective for needle, The cancel key function is			
)	Setting of reverse sewing switch function	Reverse sewing switch mode 0: Only reverse sewing 1: Reverse sewing and fill needle	0/1/2	0	I	The middl presser for	ot 🔛	Presser foot to set shortcut keys: set or cancel the presser foot function.					
	soft start speed 1	2: Only reverse sewing, standby without operating speed of the 1 st needle of soft start	100~3000rpm	400	I	Shear lin pressure foot	ne 🔝	The shear lin	e and presser foot set shortcut k	eys: set or cancel trimmer and presser foot func			
2 3	soft start speed 2 soft start speed 3	speed of the 2 nd needle of soft start speed of the 3 ^{nd*} 9 th needle of soft start	100~3000rpm 100~3000rpm	600 600	I	Soft start		Soft start to	set shortcut keys: set or cancel	the nodal soft start function			
1 5	Presser foot soft lowering function Presser foot lift function	0: unavailable 1: available 0: unavailable 1: available	0/1 0/1	0	I	Soft Start				ch display 3 pin number to set the display value			
7	Power on and positioning	0: unavailable 1: available Setting of signal mode of turn/lift switch of machine	0/1	0	Ι			upper end:A,	B, C, DPeriod of pin number, Light FPeriod of pin number, Light corre	corresponding level;			
3	signal mode for turn/lift switch	head 0: always open 1: always close 2: forbid a protection	0/1/2	0	Ι	Pinnumberse /check	et 🛞	lower extreme	:G、HPeriod of pin number,Light c				
,	Presser foot soft lowering time	To set presser foot soft lowering time The longer time the lower speed of the presser foot	$50\!\sim\!500 \mathrm{ms}$	300	II	choice				I crystal display A B C D E F on each for 10 11 12			
	Decorative bar-tacking dwell time	To set decorative bar-tacking dwell time	$5{\sim}500 \mathrm{ms}$	50	Ι			3. To take the thread clamp function model, according to the b		rding to the buttons can show long thread clamp str crystal display [7]), again according to the key			
	To select standard bar-tacking pedal speed mode	Standard bar-tacking pedal speed Mode selection	0/1	0	II			1. Entering di	fferent parameter level	<u> </u>			
┥		0: Auto bar-tacking speed ; 1: Pedal speed 0: No by-piece function						the Level I p	arameters in the parameter list w				
	By-piece rate setting	$1\ensuremath{^{\sim}20}\xspace$ Plus 1 to by-piece value for each set thread trimming	0~20	1	I			Password Enter	ring Interface. After entering the	keep pressing the button for a few seconds to ent right maintenance password, then the user can pre			
	Low speed	The lowest speed of pedal Pedal speed adjustment 0: normal	100~400rpm	200	I			will display.					
-	Pedal curve selection thread-cutting speed	1: Slow acceleration 2: Quick acceleration thread-cutting speed	0/1/2 100~400rpm	0 200	I				setting interface, the user can keep pressing the button P for a few seconds to ent				
	Reverse sewing speed limit switch	Reverse sewing speed limit switch processing can prevent reverse sewing needle breakage	0/1	0	т	parameter setting	Ρ	enter the Pass	sword Resetting Interface. The thr	e button combination of "burst button + cutting button e three indicators (respectively are Indicator S1, S2 a			
		0: infinite speed 1: have the speed limit		-	1	20001115		lights up, old	n, among which one is on) corresponding to the button S indicates the current statu password input, ending the key combination trigger key + tangent key, if the correct pas ord reset interface (mistakes have stayed the S1 state), and at the same time S2 1 input new password and click confirm S3 S key input again when the light is the new pass				
	pressor foot lifting delays sewing output time of total pressure of	delay with pressor foot lowered output time of total pressure of pressor foot lifting	0~800ms 0~800ms	50 150	II								
+	pressor foot lifting output duty cycle of pressor foot	output time of total pressure of pressor foot lifting	0 80000	150	11			according to S	g the input new password and click confirm 55 S key input again when the light is the new pass g to S key after two input if consistent, then set success, return to parameter interfacel words entered are not the same, the Indicator SI will be on and the LC screen will be r				
_	lifting hold time of pressor foot lifting output duty cycle of pressor foot	forced shut-down after hold time of pressor foot lifting output duty cycle of pressor foot lifting	0∼100 1∼60(s)	30 12	II			and the user s back to the in 0 to 9 or the 1	hall enter the old password again. nterface parameters and no modific	If the user presses the button P, the user will be b ation will be saved. You can choose from the numb haracter of the password. Please do keep the new pa			
,	lifting output time of total pressure of					Teeshinn		in mind.					
	reverse-sewing output duty cycle of reverse-sewing	output time of total pressure of reverse-sewing output duty cycle of reverse-sewing	0~800ms 0~100	150 45	II II	Teaching function		Set or cancel the teaching function.					
	hold time of reverse-sewing	forced shut-down after hold time of reverse-sewing	1~60(s)	12	II	Sewing set	P1 ~P15	The number of	needles sowing set. Set up a tet	al of 15 cogmont poodlo number P1^PF			
	starting reinforcing-sewing speed starting reinforcing-sewing	starting reinforcing-sewing speed parameter of starting reinforcing-sewing stitch	100~3000rpm 0~100	700 20	I	program	↓ P15						
5	compensation 1 starting reinforcing-sewing	compensation parameter of starting reinforcing-sewing stitch			-	speed key		Speed down. Keeping pressing to lower speed, the display will automatically switch to s seam, free seam effective.					
-	compensation 2 ending reinforcing-sewing speed	compensation ending reinforcing-sewing speed	0~100 100~3000rpm	12 700	I	speed key	₹.	Speed up. Keep seam, free se		ne display will automatically switch to speed set.			
	ending reinforcing-sewing compensation 1	parameter of ending reinforcing-sewing stitch compensation	0~100	20	Ι	Teaching fu			····) 1 "T"	nd, you can enter the teaching interface, this int			
	ending reinforcing-sewing	parameter of ending reinforcing-sewing stitch	0~100	12	I	has buttons	s: T key, two	groups of add-	substract key, fill needle key. R	ole is as follows:			
	compensation 2 ending reinforcing-sewing speed	compensation ending reinforcing-sewing speed	100~3000rpm	700	Ι					l only to accumulate (into the next section te lid. Note: when the pedal operation, the key is in			
	continuous reinforcing-sewing compensation1	parameter of continuous reinforcing-sewing stitch compensation	0~100	20	Ι		ostract key 34 e, needle cha		ng pin number, to stop running when t	he adjust pin number. Fill needle keys: press can ma			
	continuous reinforcing-sewing compensation2	parameter of continuous reinforcing-sewing stitch compensation	0~100	12	Ι	T: exit	t show interf	face, complete t		g (section numerical covering the original mode)			
:	Pedal travel upon start	Pedal position upon start Travel relative to medium pedal	10~50 (0.1°)	25	II	After t of stitch p		ar line, will di	irectly from the show and save the	needle numerical, before returning to the fixed			
1	Pedal travel upon acceleration	Pedal position upon start acceleration Travel relative to medium pedal	10~100 (0.1°)	50	II	5. Error	codes						
	Pedal travel at highest rotation	Pedal position at highest rotating speed Travel	$10 \sim 150$	110	II	Error Code	Co	ntents	Possible reasons	Checking and treatment			
	speed Pedal travel upon presser foot lift	relative to medium pedal Pedal position upon pedal lift	(0.1°) -100~-10	-30	II	E011				If electric engine plug is well contacted; if electric engine signal detecting device has			
;	Pedal travel upon presser foot	Travel relative to medium pedal Pedal travel from presser foot lowering position to	(0.1°) 5~50	10	II	E012 E013	Motor sign	nal error	Motor position sensor signal failure	been broken; if sewing machine handwheel correctly			
-	lowering Rodal travel 1 upon thread trimming	neutral position Travel relative to medium pedal Pedal position upon start trimming without presser	(0.1°) -100~-10	-30		E014			Unable identify	installed.			
+	Pedal travel 1 upon thread trimming	foot function Travel relative to medium pedal Pedal position upon start thread trimming with	(0.1°)	90	II	E015	Model type	error	Unable identify operating box model type	Check operating box			
	Pedal travel 2 upon tread trimming	presser foot function Travel relative to medium pedal	-100~-10 (0.1°)	-60	II	E021				If electric engine plug is well contacted; if machine head or thread-cutting mechanism has			
	Down needle positioning position	To adjust down needle position	0~240	60	I	E021 E022 E023	Motor over	:load	motor stall motor overload	<pre>been blocked completely;f materials are too thick;</pre>			
	Reverse needle lift function	Reversal of needle lift function after thread trimming 0: unavailable 1: available	0/1	0	Ι	5020				Electrical signal detection signal whether the normal.			
	Reversal of needle lift angle Needle position adjustment	Reversal of needle lift angle Needle position adjustment	0~45° 0~240°	45 105	I I	E101	Hardware d	rivers fault	Current detection abnormal	Current detection loop system is working properly;Whether the damage to the device			
T		5: restore the current level factory parameters 8: restore the current level and sewing factory							Driving hardware error	driver. System into line voltage is too high;			
	return to factory-set parameter	according to S button, select yes, then press the S key execution	0~15	0	I	E111 E112	Voltage to) high	High input voltage Brake circuit fault Voltage detection error	Braking resistance are working properly; System voltage detection circuit are working properly.			
)	highest speed of sewing	highest speed of sewing Needle wear through cloth when used	200~3500spm	3000	II	E121	Voltage to	o low	Actual low voltage	If the voltage on the inlet wire is too low Whether the system voltage detection circuit			
	Aggravating function Suction angle of shear line	0: invalid; 1 ~ 15 strength regulation To set suction angle of shear line	0~15 0~200	0 60	II	E122			Voltage detection is wrong	the normal work. Current detection loop system is working			
	Power angle of shear line	To set power angle of shear line	200~300	260	II	E131	Current cir		Current detection abnormal	properly.			
	Release angle of shear line loosen pressing actuation angle	To set release angle of shear line loosen pressing actuation angle	$300 \sim 360$ $150 \sim 350$	340 300	II	E133 E151	Oz circuit Magnet circ		Oz circuit fault Over current magnet circuit	Oz circuit system is working properly. If machine head magnet suffers short circuit			
-	loosen pressing release angle Pedal presser foot lift confirm time	loosen pressing release angle Pedal presser foot lift confirm time	270~360 10~300ms	320 80	I II	5101	magnet Cir(oit CIIVI	Sver current magnet diffuit	Electromagnet circuit is working properly. Current detection loop system is working			
	The neutral position of the pedal	Trimming the neutral position of the pedal	-15~15(0.1)	0	II	E201	over curre	ıt	Current detection error	properly Electrical signal is normal.			
	nstallation and adjustment					E211 E212	Abnormal me	otor operation	Current or voltage detection	If electric engine plug is well contacted;			
	Press the P key for seconds into Select the No.75 parameter ,run					E212 E301	Communicat	-	error Sci circuit error	If electric engine signal is matched. if operation box plug is well contacted;			
3	Stop sewing machine, after runni		ALA			E302		inner failure	Sci circuit error	if operation box components are damaged. To check whether the operating box is damaged.			
	the needle's point touchs the	board (as shown in the right	T			E402	Pedal ID fa		Pedal verification fault	Pedal connection is loosen.			
		75 will change at the same time) that if the needle's point touchs				E403	Pedal zero	position fault	The pedal zero position over range	The pedal is damaged or it is not under stop state when correction.			
	the board after the machine stop if not,adjust the hand wheel aga	pped,				E501 P. off	Safety swi Power off		Safety switch effective	Put down the head or check turned up switch.			
	if not,adjust the hand wheel aga Press the P key,and then end the		(PT)	and the local		P. oFF EvaL	Power off Trial expir		Power off Trial expired	Wait for power supply to resume. Contact the dealer processing			
. 9	. System Info					Note 1 S	Sewing abnorm	al action (snee	d electromagnet work abnormal) .	in the control interface view model is correct.			

85	Suction angle of shear line	To set suction angle of shear line	$0 \sim 200$	60	II
86	Power angle of shear line	To set power angle of shear line	$200 \sim 300$	260	II
87	Release angle of shear line	To set release angle of shear line	$300 \sim 360$	340	II
88	loosen pressing actuation angle	loosen pressing actuation angle	$150 \sim 350$	300	Ι
89	loosen pressing release angle	loosen pressing release angle	$270 \sim 360$	320	Ι
92	Pedal presser foot lift confirm time	Pedal presser foot lift confirm time	10~300ms	80	II
93	The neutral position of the pedal	Trimming the neutral position of the pedal	$-15 \sim 15(0.1)$	0	II

4. 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 to enter/exit the selected projects such as the need to exit 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	/
U4	Pedal voltage	0.01V	vEr	Operation box version of the program	/
U5	Mechanical Angle with	limit	TYPE	Software no	/

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.

6. Accessories

NO	Product name	Amount	Product specification	Confirm	Remarks
1	Electric control box	1			
2	Ball section connecting rod	1			
3	pedal	1	PL-302		with bracket
4	screw	3	M5×25		screw
5	The instructions	1			

