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, 1.4 \bigwedge Used where potential dangers exist.

⚠ Used where high voltage and electric danger exist.

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

2. Operation panel instruction

2.1 The control box operation panel describe

As shown in the right figure.

2.2 sewing function setting

Operation panel default mode:

Needle position, trimming, start bartack and end bartack

1: choice of needle position a: 0 up needle position; 1 lower needle position
2: choice of trimming b: 0 no-trimming trimming 1 trimming

2: choice of trimming b: 0 no-trimming trimming 1 trimming 3: choice of start bartack c: 0 no; 1 AB double; 2 ABAB four

4: choice of end bartack c: 0 no; 1 CD double; 2 CDCD four



Press the P key long to enter the function parameter setting state at the default interface.

Abcd postion show parameter value, can be modified by the key 34; ef postion show parameter index, can be modeified by key 12.

Press P can save the current parameter values, then exit the parameter setting mode. Press 1234 key short time, then update every time, press long time, update continuance and faster.

Note: When the system is running, can not enter the parameter setting mode; unless you exit the parameter setting mode, otherwise the system can not run.

2.4 System monitor state

3. Error codes

E403

E501

Pedal zero position fault

Safety switch fault

Power off Display

Press the P key, at the same time press key 1 , can enter this interface at the default interface

JJ	Work pieces	DX	Bobbin thread value	1	Motor speed	2	Motor current	3	Bus voltage
4	Pedal voltage	5	mechanical angle	6	motor angle	7	Software Version	8	machine model

Contents Possible reasons Checking and treatment Code If electric engine plug is well E011 contacted; Motor position sensor signal E012 if electric engine signal detecting Motor signal error E013 failure device has been broken; E014 if sewing machine handwheel correctly installed. Unable identify operating E015 Model type error Check operating box $\,$ box model type If electric engine plug is well contacted; E021 if machine head or thread-cutting motor stall E022 Motor overload mechanism has been blocked completely;f motor overload E023 materials are too thick; Electrical signal detection signal whether the normal. Current detection loop system is working Current detection abnormal E101 Hardware drivers fault properly; Whether the damage to the Driving hardware error System into line voltage is too high; High input voltage E111 Braking resistance are working properly; Voltage too high Brake circuit fault E112 System voltage detection circuit are Voltage detection error working properly. If the voltage on the inlet wire is too E121 Actual low voltage low Whether the system voltage detection Voltage too low E122 Voltage detection is wrong circuit the normal work. Current detection loop system is working E131 Current circuit fault Current detection abnormal properly. E133 Oz circuit fault Oz circuit fault Oz circuit system is working properly. If machine head magnet suffers short circuit: Magnet circuit error E151 Over current magnet circuit Electromagnet circuit is working properly. Current detection loop system is working Current detection error E201 Electrical signal is norma If electric engine plug is well E211 Current or voltage detection Abnormal motor operation contacted; E212 If electric engine signal is matched if operation box plug is well contacted; E301 Communication error Sci circuit error if operation box components are damaged. To check whether the operating box is Operation inner failure E302 Sci circuit error damaged. Pedal connection is loosen. E402 Pedal ID fault Pedal verification fault

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

The pedal zero position over

Safety switch effective

- 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.

4. System parameter sheet

BEN: interlock BEN2: cylinder bed interlook sewing machine

BAO: overlock PIN: lockstitch

	Project	Content	Applicable models	Setting range	The default value	Leve
			BEN BEN2	200~6000 (rpm)	4000	
1	Pedal the fastest	Set the maximum speed of the pedal	BAO	200~9000 (rpm)	5000	I
			PIN	200~5000 (rpm)	2000	
2	Soft-start function	Low-speed sewing needle sewing start function 0: No soft-start function 1^9: Soft start stitches	BEN BEN2 BAO PIN	0~99	3	I
4	Fixed-length seam maximum	0 . 1 . 1	BEN BEN2 BAO	200~5000 (rpm)	3500	т
4	speed	Set as long slit maximum speed	PIN	200 5000 (rpm)	2000	Ι
		The sewing mode setting (without a nose				
5	Sewing mode	operation box)	BEN BEN2 BAO PIN	0~2	0	I
		0: Free sewing; 1: Simple Sewing;				
	The number of steps of the	2: Fixed stitches; 3: Overlapped sewing				
10	fixed stitches		BEN BEN2 BAO PIN	1~7 (SEGMENTS)	1	I
11	Step 1 stitches		BEN BEN2 BAO PIN	1~99 (NEEDLE)	15	I
12	Step 2 stitches	The number of steps of the fixed stitches	BEN BEN2 BAO PIN	1~99 (NEEDLE)	15	I
13	Step 3 stitches	(without nose operation box)	BEN BEN2 BAO PIN	1~99 (NEEDLE)	15	I
14	Step 4 stitches		BEN BEN2 BAO PIN	1~99 (NEEDLE)	15	I
15	Step 5 stitches		BEN BEN2 BAO PIN	1~99 (NEEDLE)	15	I
16 17	Step 6 stitches		BEN BEN2 BAO PIN BEN BEN2 BAO PIN	1~99 (NEEDLE) 1~99 (NEEDLE)	15 15	I
11	Step 7 stitches	The fixed stitches one-shot mode (without nose	DEN DENZ DAU FIN	1 99 (NEEDLE)	15	1
18	The fixed stitches	operation box set)	BEN BEN2 BAO PIN	0/1	0	I
	one-shot mode	0: Invalid 1: Effective				
21	Soft-start speed 1	The first stitch speed	BEN BEN2 BAO PIN	100~3000 (rpm)	600	I
22	Soft-start speed 2	The second stitch speed	BEN BEN2 BAO PIN	100~3000 (rpm)	1000	I
23	Soft-start speed 3	The third stitch speed	BEN BEN2 BAO PIN	100~3000 (rpm)	1500	I
		Prevent damage to the fabric, slowing down the				
24	Pressure decreased Jiaoruan function	rate of decline of the presser foot set	BEN BEN2 BAO PIN	0/1	0	I
	Jiaoruan Tunction	0: Invalid 1: Valid				
25	Presser foot lift to enable	Presser foot lift enable set	BEN BEN2 PIN	0/1	1	1
20	Fresser foot fift to enable	0: Invalid 1: Valid	BAO	0/1	0	1
	Enable automatic presser	Automatic presser foot lift can be set				
26	foot lift	0: Invalid 1: Shut down automatically when	BEN BEN2 BAO PIN	0/1	0	I
		the presser foot lift				
27	Power-positioning	Power-on timing head first needle position automatic operation function is set0	BEN BEN2 BAO PIN	0/1	0	1
21	rower-positioning	0: Invalid 1: Valid	DEN DENZ DAO I IN	0/1	0	1
		Head turned lift or safety switch signal mode	BEN BEN2		1	
28	Raising the safety switch	is set		0/1/2		٠,
20	signal mode	0: Normally open 1: NC	BAO PIN	0/1/2	0	I
		2: remove protection				
29	The pressure decreased	The pressure decreased Jiaoruan (the longer	BEN BEN2 BAO PIN	50~500 (ms)	300	I
	Jiaoruan time	the presser foot drop, the slower time setting) Unit of bobbin thread counting down			-	
30	Unit of bobbin thread	0: Invalid	BEN BEN2 BAO PIN	0/5/10/15/20	0	I
	counting down	5/10/15/20: count5/10/15/20 stitches				
31	The bobbin thread initial	The bobbin thread initial total	BEN BEN2 BAO PIN	200~4000	1600	I
	total		BEN BENE BIO TIN	200 1000	1000	
25	C	0: No function	DEN DENG DAG DIN	0~20	1	,
35	Cutting rate	1~20: Every cutting rate 1~20, workpiece plus	BEN BEN2 BAO PIN	0 20	1	I
	Thread-cutting speed time	Thread-cutting speed setting	BEN BEN2			
36				0~800 (ms)	120	I
	Thread wiping operation					
	time	Thread wiping operation time	BEN BEN2	0~800 (ms) 0~800 (ms)	120 40	
37	time Thread-cutting delay time	Thread wiping operation time Thread-cutting delay time setting				I
37 38	time Thread-cutting delay time Thread wiping operation	Thread wiping operation time	BEN BEN2	0~800 (ms)	40	I
37 38 39	time Thread-cutting delay time Thread wiping operation delay time	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting	BEN BEN2 BEN BEN2 BEN BEN2	0~800 (ms) 0~200 (ms) 0~300 (ms)	40 0 40	1
37 38 39 40	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms)	40 0 40 30	1 1 1
37 38 39 40	time Thread-cutting delay time Thread wiping operation delay time	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed	BEN BEN2 BEN BEN2 BEN BEN2	0~800 (ms) 0~200 (ms) 0~300 (ms)	40 0 40	1 1 1
37 38 39 40 41	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms)	40 0 40 30	1 1 1
37 38 39 40 41	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust;	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm)	40 0 40 30 200	1 1 1
37 38 39 40 41 42	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm)	40 0 40 30 200	1 1 1 1
37 38 39 40 41	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm)	40 0 40 30 200]]]]
337 338 339 40 41 42 442	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm)	40 0 40 30 200]]]]
337 338 339 40 41 42 442	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust: 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN BEN BEN2 BAO PIN BEN BEN2 BAO PIN BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm) 0/1/2 0~800 (ms)	40 0 40 30 200 0 200	1 1 1 1 1
337 338 339 40 41 41 42 46	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust: 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms)	40 0 40 30 200 0 200 150 40	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
337 338 339 40 41 41 42 46 47	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~300 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms)	40 0 40 30 200 0 200 150 40 30	1 I I I I I I I I I I I I I I I I I I I
337 338 339 40 41 42 442 446 447	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0; Normal 1; Accelerate the slow; 2; Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms)	40 0 40 30 200 0 200 150 40	
337 338 339 40 41 42 46 47 48	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle Presser foot magnet lift	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~300 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms)	40 0 40 30 200 0 200 150 40 30	
337 338 339 40 41 41 42 46 47 48 49 69	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle Presser foot magnet lift holding time Down needle position	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust: 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle Presser foot magnet lift holding time	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms) 1~100 0~100 1~60 (s) 0~240	40 0 40 30 200 0 200 150 40 30 12	
36 37 38 39 40 41 42 46 47 48 49 69 75	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle Presser foot magnet lift holding time	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust: 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle Presser foot magnet lift holding time Down needle position	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms) 100~100 1~60 (s)	40 0 40 30 200 0 200 150 40 30 12 177	
37 38 39 40 41 42 46 47 48 49 69	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle Presser foot magnet lift holding time Down needle position Needle position adjustment	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle Presser foot magnet lift holding time Down needle position Down needle positioning position; this parameter interface can tread pedal running Set to 5: Restore the current level of the	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms) 1~100 0~100 1~60 (s) 0~240	40 0 40 30 200 0 200 150 40 30 12 177 0	
37 38 39 40 41 42 46 47 48 49 69	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle Presser foot magnet lift holding time Down needle position	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle Presser foot magnet lift holding time Down needle position Down needle positioning position; this parameter interface can tread pedal running	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~100 0~100 1~60 (s) 0~240 0~15	40 0 40 30 200 0 200 150 40 30 12 177 0 120 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
37 38 39 40 41 42 46 47 48 49 69 75	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle Presser foot magnet lift holding time Down needle position Needle position adjustment Parameter restore	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle Presser foot magnet lift holding time Down needle position Down needle positioning position; this parameter interface can tread pedal running Set to 5: Restore the current level of the factory parameters	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms) 0~100 0~100 1~60 (s) 0~240 0~240 0~15 200~6000 (spm)	40 0 40 30 200 0 200 150 40 30 12 177 0 120 0 5000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
37 38 39 40 41 42 46 47 48 49 69 75	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle Presser foot magnet lift holding time Down needle position Needle position adjustment	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle Presser foot magnet lift holding time Down needle position Down needle positioning position; this parameter interface can tread pedal running Set to 5: Restore the current level of the	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms) 0~100 0~100 1~60 (s) 0~240 0~240 0~15 200~6000 (spm) 200~9000 (spm)	40 0 40 30 200 0 200 150 40 30 12 177 0 120 0 5000 8000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
37 38 39 40 41 42 46 47 48 49 69 75 79	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle Presser foot magnet lift holding time Down needle position Needle position adjustment Parameter restore Sewing maximum speed	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle Presser foot magnet lift holding time Down needle position Down needle positioning position; this parameter interface can tread pedal running Set to 5: Restore the current level of the factory parameters Sewing maximum speed	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~300 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms) 0~100 1~60 (s) 0~240 0~15 200~6000 (spm) 200~9000 (spm) 200~5000 (spm)	40 0 40 30 200 0 200 150 40 30 12 177 0 120 0 5000 8000 4200	
37 38 39 40 41 42 46 47 48 49 69 75 79	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle Presser foot magnet lift holding time Down needle position Needle position adjustment Parameter restore	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle Presser foot magnet lift holding time Down needle position Down needle positioning position; this parameter interface can tread pedal running Set to 5: Restore the current level of the factory parameters Sewing maximum speed 0: Invalid; 50~1000: Suggestion time	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~800 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms) 0~100 0~100 1~60 (s) 0~240 0~240 0~15 200~6000 (spm) 200~9000 (spm)	40 0 40 30 200 0 200 150 40 30 12 177 0 120 0 5000 8000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
337 338 339 440 441 442 446 447 448 449 669 775 779	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle Presser foot magnet lift holding time Down needle position Needle position adjustment Parameter restore Sewing maximum speed	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle Presser foot magnet lift holding time Down needle position Down needle positioning position; this parameter interface can tread pedal running Set to 5: Restore the current level of the factory parameters Sewing maximum speed	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~300 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms) 0~100 1~60 (s) 0~240 0~15 200~6000 (spm) 200~9000 (spm) 200~5000 (spm)	40 0 40 30 200 0 200 150 40 30 12 177 0 120 0 5000 8000 4200	
37 38 39 40 41 42 46 47 48 49 69	time Thread-cutting delay time Thread wiping operation delay time Presser foot delay time Slow speed Pedal curve selection Delay Sewing time, when presser foot down Time of presser foot magnet full voltage output Presser foot magnet voltage output duty cycle Presser foot magnet lift holding time Down needle position Needle position adjustment Parameter restore Sewing maximum speed Lubrication prompts	Thread wiping operation time Thread-cutting delay time setting Thread wiping operation delay time setting Presser foot delay time The pedal the lowest speed Pedal speed control function to adjust; 0: Normal 1: Accelerate the slow; 2: Acceleration Delay Sewing time, when presser foot down Time of presser full voltage output Presser foot voltage output duty cycle Presser foot magnet lift holding time Down needle position Down needle positioning position; this parameter interface can tread pedal running Set to 5: Restore the current level of the factory parameters Sewing maximum speed 0: Invalid; 50~1000: Suggestion time This function is used when needle cannot pierce	BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BEN BEN2 BAO PIN	0~800 (ms) 0~200 (ms) 0~300 (ms) 0~300 (ms) 100~400 (rpm) 0/1/2 0~800 (ms) 0~800 (ms) 0~100 1~60 (s) 0~240 0~15 200~6000 (spm) 200~5000 (spm) 0~1000 (Hour)	40 0 40 30 200 0 200 150 40 30 12 177 0 120 0 5000 8000 4200 0	

5. accessory

NO	Product name	Amount	Specification	Confirm	Remarks
1	Pull rod	Amount	Specification	Confirm	Remarks
	Puli rod	1			
2	Ctrolling box	1			
3	Pedal	1	PL-303		Including stand
4	Screws accessory box	1	WR596		
5	Using instruction	1			
6	Certifiction	1			
7	Desiccant	1			

The pedal is damaged or it is not under

Put down the head or check turned up

Wait for power supply to resume

switch.