

1/8

A2B Direct Drive Power Operation Manual

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杰克科技股份有限公司

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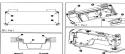
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Operation Manual

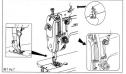
riens its oil reservoir has been filled with oil.
,check the direction of motor rotation. To check it, Jurn the hand wheel
zow, and turn the power switch DN. while observing the hand wheel, the
aeroclockies as observed from the hand wheel side).

**Amanhinging or 3-phase)are correct by checking them against the ratings



2/8

2.THREADING THE MACHINE HEAD







3/8

用途	一般有料、用料、中學科	中原料、原料
機切迹療	製商4,000rpm	服高3,500rpm
最大計算核度	Smm	
40.9f	DBx1 #9-#18(14#)	DPx5 #20-#23(#21)
狂胸高度(自动地狂脚)	9mm(初度)12mm(最大)	9mm(根准)12mm(最大
使用机油	New Defrix Oil NO.108	Lia

Application	General fabrica/light -weight and mdelum-weight materials	Mdeium-weight materials, Heavy-weight materials
Sewing speed	Max. 4,000rpm	Max. 3,500rpm
Max.Stitch length	Smm	
Needle	DBx1 #9-#18 (14#)	DPxS #20-#23 (#21)
Presser foot lift	9mm(standard);'Qmm(Max.)	9mm(standard);12mm(Hax.)

5. THREAD TENSION

6.THREAD TAKE UP SPRING







5/8

6/8

ZB-A2B Operation Manual

fety instruction.

Please read this manual carefully, also with related manual for the machinery before use the

controllers. In summer cases, now that return annual no in analogy cover to the controllers where the controller properly and sirely, quitility promoted are required. Please by to say may from an over using equipment, in order to record electromagnetic. When the control is the control is the control is the control in the control in the control in the control is the control in the control in the control in the control in the control is the control in th

1 Product installation

1.1 Plug connection

Connecting plugs of the the pedal or machine head to the related socket on the control box, the name of each socket is shown in Figure 1-1. After connecting, please check whether the plug is





1-2 Controller interface definition

Note: please check if the plug and socket match or the direction of the plug is right when we can't plug in under normal condition.

1.2 Wiring and grounding

1-1 A2B series control box

①pedal & upgrade socket;

Please make qualified grounding system with professional technicians. Make sure the AC plug is grounded safely before power on. The yellow and green wire is for grounding, and please make sure it is grounded before operating thus can prevent abnormal conditions.

Note: please don't twist or press while grounding power wire, signal wire, grounding wire etc for making sure safety

2 Operation panel instructions

2.1 Operation panel display instructions

According to the system working state, The Digital pipe of the operation panel will display the current sewing status , contains (stop needle position, thread trimming indication). The operation panel looks as follows.



2.2 The description of each key function

number	diagram	name	Function description
1	P	Enter the parameter area function key	Parameter function entry key
2	S	Parameter view save key	View and save the selected parameter number
3	\oplus	Parameter up(Speed plus)	Enter the parameter function number / value plus, under initial standby situation speed plus
4	Θ	Parameter down(Speed down)	Enter the parameter function number / value down, under initial standby situation speed down
5	\bigcirc	Left key	Enter the parameter function to select the parameter item

3/8

6	\odot	Right key	Enter the parameter function to select the parameter item
7	Decad ###*	Reset key	Long press for 3S to restore the factory settings
8	×	Trimming function keys	Trimming fluction selection key The decimal point of the rightmost digital tube lights up to indicate the thread trimming is on The decimal point of the rightmost digital tube is off to indicate thread trimming off
9	15	Stop needle position selection key	Up / down stop needle position selection button. The horizontal light on the rightmost digital tube indicates the upper needle position. The bottom of the rightmost digital tube lights horizontally to indicate the needle position. The rightmost digital tube does not light up and down,

3 Parameters adjustment

3-1 Enter into operator's parameter and save

In free time, pressor for a long time, enter into operator parameter, and then press of a short time,enter into parameters Press QuoQuo enter into parameter, and press QuoQuo modify related

parameters. If not modified, press to back: if modified successfully. press and save parameter shows ok and back to main menu, press to exit the parameters mode.

3-2 Method to enter into operators parameter and save

press 1,5 for a long time and turn on the power to enter the operator' parameter, same method as

3-3 Speed adjustment

In free time. press on to change the speed 100 difference once a time and can press

3-4 Factory setting

Long press for factory setting

3-5 method to monitors mode

In free mode, long press . It show monitoring parameter number . press . The solver database onding digit value flashes, then pressall on increase or decrease monitor parameter number display. press center the parameter value corresponding to the monitoring parameter item. and press . back to monitor's parameter number short press . exit monitor mode.

3-6 Quick adjustment of stop needle position

In free mode, long press . then enter into up and below stop needle position.PS8. P59

4 parameters

4-1 Operator parameter

parame ter	description	Factory	range	Content Value Name Description and Rema
P01	Highest speed (r/min)	3600	200-5000	The maximum speed setting during sewing. Adjustment unit: 100RPM
P03	Needle position	DN	OFF-UP-D N	OFF: close UP: up needle position DN; below poedle position/When the needle stop position shortest key is pressed, it does not week, and the corresponding digital tube does no light up and down)
P07	Slow starting sewing speed(s/min)	800	200-2000	Adjustment unit: 100RPM
P06	Slow starting sewing stackes	2	1-9	unit: Half-stisch
P09	Slow starting sawing stitches	ON	ON-0FF	OFF:close ON:open
P15	Needle repair function	0	0-3	0) Patching by time 1: Half stitch 2: One stitch 3: off
P24	Pedal thread trimmer position	655	0-4095	
P30	thick force switch	ON	ON-0FF	OFF:close ON:open
P31	Trimming force coefficient	100	10-300	Trimming force coefficient Adjustment unit: 10
P38	Trimming switch	ON	ON-OFF	OFF:close ONorpen

4-2 Technicians parameters

parame tera	description	Factory	range	Content Value Name Description and Remarks	
P49	Trimming speed	300	200-500	Motor speed when adjusting thread trimming cycle adjustment unit: 10RPM	
P55	sleep time	0	0-60	unit: min Set 0 to turn off the sleep function	
P56	Boot up and find the needle position enable	ON	ON-OFF	OFF: Don't find the upper needle position when starting up ON: Automatically find the upper needle position when rower on	
P58	Upper needle position angle adjustment	3	0-11	Control the upper needle stop ungle to fine-time within a small range (Note: Needle bur jitter may occur when the needle stops after some parameters are medified)	
P59	Below needle position angle adjustment	8	0-8	The needle stop angle can be fine-tuned within a small range under the control (Note: Needle bur jitter may occur when the needle is stoped after some parameters are modified)	
P61	Aging runtime	3	1-255	Running time writ: s	
P62	special operating mode	0	0-4	0: normal 1: aging (for Zhongbung workshop) 2: reserved 3: automatic test mode 4: electromagnet run and (only run and electromagnet)	
P63	Aging stop time (s)	2	1-255	Stop time unit: s	
P64	Operator parameter	0	0-2	0: no action 1: Save current parameters as user parameters 2: restore user parameters	
P65	preset	- 0	0-1	01 no action 11 Restore factory default parameters	
P66	Safety switch	ON	ON-OFF	OFF: close ON: open	
P68	maximum speed limit	3600	500-5000	Adjust the maximum speed limit adjustmen unit: 100RPM	
P72	Running start position before pedaling	350	0-4095	Relative to the back-to-center position	
P73	Pedal low speed running end position	650	0-4095	Relative to the back-to-center position	
P74	Pedal analog maximum	3600	0-4095		
P75	Pedal return to center position setting	1450	0-4095		
P96	Under voltage alarm parameters	0	0. 10-15	0:close 10:100VAC 15:150VAC	
P97	Over voltage Alarm Parameters	27	0. 26-30	0xlose 26:264VAC 30:305VAC	

paramet er	description	Content Value Name Description and Remarks
	mmber	
1(3)	bus voltage	
121	head speed	Show real-time speed
1822	Motor line current	Display line current AD value
1025	The meximum value of analog quantity before pedal	
106	Pedal return to analog sample value	
1027	Electronic control cumulative running time	Display the cumulative running time of the electronic control (hours)
1028	Pedal thread trimmer analog sample value	
M30-M37	Historical fault code monitoring	Display historical fault codes (only the latest 8 are displayed, and E-00 is displayed when there is no fault code)
108	Power monitoring	Displays real-time power during operation
1139	The highest voltage in history	Display the historical input highest voltage
1000	Needle stop signal up and down	Digital tube one digit display: 0: low level 1: high level

Content Value Name Description and Romarks

5 Error code

met description

5-1 Error code table

If the system shows error or alarm, please first check the following items:

1. first, confirm if the machine's connection cable is intact; 2. Confirm whether the electronic control box and the machine is matched or not; 3. Confirm whether the factory reset is accurate or

ot.				
Error ode	Code meaning	countermeasure		
Err-01	Hardware overeurent	Turn off the system power, re-connect the power after 30 seconds, if the controller		
Err-02	Software overcurrent	still can not work, replace the controller and notify the factory.		
Err-03	Excessive shutdown	Disconnect the controller power and check if the input supply voltage is low (under 154V). If the supply voltage is low, restart the controller after the voltage has returned to normal. If the voltage is still normal, start the controller still can not work properly, please epilose the controller and notify the factory.		
Err-04	Running over voltage	Disconnect the controller power and check that the input supply voltage is high (above 264V). If the supply voltage is high, restart the controller after the voltage has returned to normal. If the voltage is still normal, if restart the controller still con not work property, please replace the controller and notify the factory.		
Err-07	Current detection circuit failure	Turn off the system power, re-connected after 30 seconds to observe whether the normal work. Retry several times, if the fault occurs frequently, replace the controller and inform the resunfacturer.		

6/8

5-2 Security alarm table

Alarm code	Code meaning	solution		
OFF	Power off / power supply voltage is too low	Hease check the supply voltage		
OF.	Motor sleep	When the machine is in standby for about the time set by parameter P55, it does not run, and it enters the sleep state displays OF, and the decimal point of the last digital tube flashes, press any key to wake up the machine;		
A-UP flip switch alarm		Straighten the nose to ensure that the flip switch is restered Press and hold the S key to clear the alarm and turn off the dump detection fraction		
A-01	The signal of the needle is abnormal	Hence check whether the acceller repleziolment button of fet reachine hand can be closed and spectral neurally is always closed, please replace the needle repleziolment button of the medicine level. (This altern will automatically turn off the needle repleziolment function, but it will not affect the operations of the netter. After 38s, the altern will be closed automatically for annual by wheet pressing the Phys.)		

6 Foot pedal sensitivity adjustment

1)The polal movement starts from the initial position 0 (parameter 75), slowly stepping forward so 0 (2* + 75 parameter) is start the low-speed serving, and thus proceed to step (75* + 73 to start accelerating Does spot to 0 of 0 parameters) to share the lightest speed. Between 0 segment to maintain the starting speed, between 0 0 segment is the no-level speed control

2) When the foot pedal starts from the initial position ① (parameter 75) Slowly after the step to ③ (24 parameters) automatically cut the line when the finished the cutting action;

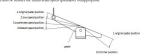
3) Make sure the perameter value should be arranged as below: (parameter No. 24)

«[parameter No. 70] «[parameter 75] «[parameter 75 + 72] «[parameter 75 + 73] «[parameter 74]

[Parameter No. 70] [Parameter 75] [Parameter 75 + 72] [Parameter 75]

[Parameter 75] [Parameter 75

4) It can be monitored by the mode of 025.026.028 parameters in real time to monitor the d) It can be monitored by the mode of 025,056.08 permateria in real time to monitor the pollul anning ansamine, modal back to the voltage consigning value, quick interming voltage sampling value, the operation mode with the sub-position on the set, difficient positions of the poll. The sampling value is used as the reference volte for occlumement. If the nation is to sensitive, took the pold mackine to start running, may be appropriate of the machine is to sensitive, at as appropriate to replace the ZP parameters used for all the meeting possible promoter TS, you can improve the sensitivity of the previous sky; thecase the ZP grammeters, that one was the promoter SD, with a falling reaching the good of the rapid macroes model by formal another, they appropriate is a falling reaching the good of the rapid macroes model by formal another than by a paperpoint is can to be Robinet to the all macroes of the promisers of the production of the pold for speed rangely, can to be Robinet the initial scan speed (parameter Voltpropropriate).



8/8

Packing List

序号 No	名 称	名 称 Description		备注 Note
1	说明书	Instruction	1 set (套)	
2	机头	Sewing machine head	1	
3	油造组件	Oil reservoir asm	1 set (套)	
4	抬压牌项杆	Knee press lifter rod	1	
5	模级杆组件	Knee lifter asm	1 set (套)	
6	机头支柱	Machine rest pin	1	
7	拉杆组件	Rodasm	1	
8	词遮器组件	Speed adjust asm	1	
9	机头连接勾组件	Machine hinge plate asm	2	
10	机头连接勾座	Rubber cushion	2	
11	螺钉起子(大)	Screw driver, L	1	
12	螺钉起子(中)	Screw driver, M	1	
13	螺钉起子(小)	Screw drivers S	1	
14	油並	Oil reservoir	1	
1.5	钉子	Nail	6	
16	机针	Needle	1 bag(%)	
17	模花	Hobbin	1	
18	磁块	Magnet	1	
19	油益支座	Oil reservoir rubber cushion	2	
20	油盘座整	Oil reservoir felt cushion	2	
21	线架组件	Spool thread stand rod asm	1 set (套)	