JIN

NA-35DUT-1

Direct Drive, 1-needle, Post-bed, Top and Bottom Wheel-Feed and Needle-Feed, Lockstitch Machine with Automatic Thread trimmer (Digital Stitch Length Control)

INSTRUCTION MANUAL (Panel)

NA-35DUT Operation Instructions for Stepping Rolla

I.Security considerations

1. safety precautions:

- Please read this technical information and the matching sewing machine instructions before use, with the correct use. 1.1(1) Power supply voltage and operating frequency: pleasefollow the specifications of the nameplate of motor and control box. (2) Electromagnetic wave interference: Please keep away from high frequency magnetic wave machine or radio wave transmitter,
- etc., so as not to cause the electromagnetic wave to interfere with the wrong action of this drive device. (3) Grounding: In order to prevent noise interference or leakage accidents, please do a good grounding project (including sewing
- machines, motors, control boxes, positioners). 1.2 Do not pull in when removing the motor or control box; there is dangerous high voltage in the control box, so wait more than 1 minute before opening the control box cover.
- The arrow of the power supply during maintenance of machinery or needle piercing.
 4 This symbol indicates that when the machine is installed, any error may damage the human body or the machine. So there will
- This symbol indicates that there is high voltage and so on, electrical danger will have this sign.

II. Instructions for the operation of the box



Serial number	Function	Pres s button	Description
1	Number of stitches shown	0 15 8 15 0 15 0 15 C C C C C C C C C C	 Adjust and display the number of trips back and forth between the free / W joints; Under the pattern seam for the various pattern number editor;
2	Synchronization key	+ 1 4.0 ★1 4.0 mm	Adjust the needle distance of upper roller;
3	Lower Synchronous Distance Adjustment Key	+ 4.0 + i+ mm	Lower roller needle distance adjustment;
4	Speed keys	3000 rpm	Each sewing interface under the addition and reduction of the key to play the role of speed regulation;
5	Sewing mode switch key	Ļ	Contact switchable W seam / pattern seam / free seam;
6	Front Seam Bond		Front fixed joint / front double fixed joint / front four fixed joints / closing cycle;
7	Post-sewn bond		Rear fixed joint / rear double fixed joint / rear four fixed joints / closed cycle;
8	Parameter keys	\$	One key into the internal parameter settings;
9	One key recovery key	11	Under the standby interface, the touch is used to restore the factory setting;
10	Surface line count display		Surface line count display;
11	Trigger key	5	Continuous fixed seam mode, this key corresponding to the light, indicating that the continuous fixed seam mode default to trigger mode;
12	Key to Lift Foot Function		Automatic lifting foot function on and off;
13	Bottom line count		Bottom line count shows;
14	Compensation left and right	R/L	Shortcut keys for left and right corner compensation:
15	Scissors Function Key	×	Scissors function on/off;
16	Soft Start Function Key	1	Soft start function on / off;
17	Pattern Cycle Startup Key	\odot	In pattern seam mode, automatic operation can be opened;
18	Lift the foot after the middle pause		The function of lifting and pressing the foot after cutting the wire in the middle is on / off;
19	Upper and lower needle selection		The function switch between the upper stop needle position and the lower stop needle position;
20	Lock screen function keys		Lock screen function on / off;
21	Close stitch function keys	1 4	Front stitch / rear stitch / front stitch / close;

IV, System Parameter Table:

No	Proje	ct	Content		Scope	Default	Leve
Sewing 1	Front reinforcement sp	ront reinforcement speed Pre-reinforcement Joint Speed		200~1800 rpm	1200	Ι	
2 3	Post-reinforcement Spe Prior reinforcement	ost-reinforcement Speed Post-reinforcement Joint Speed		200 ⁻¹⁸⁰⁰ rpm	1200	I	
4	compensation Post-reinforcement		Compensatory parameters of nost-fix stitch		0~100	0	Ι
5	Compensation Continuous		Continuous reinforcement joint speed		200~1800 rpm	1500	Ι
6	reinforcement speed Continuous reinforcem	ent	Continuous refinitoreement joint speed		200 1000 100	1000	Ι
7	compensation1		ompensatory parameters of continuous stitch		0~100	0	Т
	compensation2	ent (Compensatory parameters of continuous stitch		0~100	0	
9	Reinforcement Speed Mo Number of needle locks	de	0: Auto Fix Speed 1: Pedal Speed Number of needle locks		0/1 0~10	0	I
10	Direction of locking n Wheel gauge for lockin	eedle g needle /)irection of locking needle Wheel gauge for locking needle		0/1 0~50	0	I
12 ssing Foo	Wheel needle distance ot Parameters	, in the second s	heel needle distance		0~50	0.8	Ι
1	Press the foot so that Hold your foot down so	you can	ift foot enable set 0: invalid 1: valid : invalid 1: valid		0/1 0/1	0	I
3	Start-up delay after d Maintain duty cycle	rop	Melay to confirm that the pin has been lowered Nuty cycle of lift pin output		~800 ms 0~60	100 30	I
5	Lift hold time Slow Down Time	't hold time Force off when lifting foot holds w Down Time Slow down output time of lifting foot			1~12(s) 0 500 ms	12 150	I
7	Full pressure time of lifting foot	1	otal pressure output time of lifting foot		~800 ms	150	Ι
8	Press the foot to lift the duty cycle	F	ress the foot to lift the duty cycle		$50 \sim 95$	90	Ι
9 meters (Soft drop duty ratio of shear line	£	oft drop duty ratio		1~30	10	Ι
1	Loose electromagnet du	ty cycle	.oose electromagnet duty cycle		10~100	60 80	I
3	Cutting Speed	ectromagnet	utting speed		rpm 100 500	250	I
4 5	Starting adjustment of Cut-off adjustment	shear line	etting line suction angle setting betting of release angle of shear line		$10 \sim 200$ $300 \sim 360$	45 346	I
6 7	Starting adjustment of Loose end adjustment	loose line	tarting Angle of Loose Line .coose ends angle		0~360 0~360	300 350	I
neters o	of sewing section Soft start enable	ſ	• invalid 1: valid		0/1		T
2	Number of soft start p	ins	99: number of soft-start pins		0~9 200 800 rpm	3	Î
4	Second speed		oft Start Needle 2 Speed		900~1200 rpm 1300~1800 spm	1000	I
6	Automatic running		i: invalid I: valid		0/1	0	I
8	Follow the needle pitch	ch of the upper and	Collow the needle pitch of the upper and lower rolle	°S	0~10	5. U 0	I
ework pa	arameters	I			· · ·	·	
1 2	Bottom line rate setti Bottom line count	ng	: invalid 5/10/15/2 0: bottom line rate ottom line initial setting		$0 \sim 50$ $0 \sim 1000$	10 100	I
3	Piecework rate setting Number of pieces		: no piece function 1 5 pieces + multiple 1 Number of pieces initial setting		$0\sim 50$ $0\sim 1000$	10 100	I
5	Machine Lubricating Sw	itch	: invalid 1: valid : No Lubricating Counting Function 1.2.0: Lubrica	ting Parts by	0/1	0	Î
b param	Lubrication count eters		ultiple +1		$0 \sim 9999$	0	1
1	Selection of key funct	ion	: suture flip 1: patch 2:Reverse stitch		0/1/2	1	I
3	Tilt switch		lead Safety Switch Signal Mode Setting		0/1/2	2	I
4	Automatic screen lock		fter turning it on, the screen cannot operate on the i	n nterface after the	0/1	1	I
5	Lock screen time	s	et time: .ock screen time setting		0~240	10	I
parame	eters Pedal speed curve	ſ	 Normal 1: Acceleration Slow 2: Acceleration Fast 		0/1/2	0	I
2	Pedal neutral position Running high-speed		edal neutral trim	the medal neutral	0~200	100	I
3	travel Foot lifting command t	unning high-speed Kun to the highest speed pedal position relative to the pedal neutral stroke Scalifician Stroke		command is valid	0~300	210	I
5	Start-up trip	Tine I	he starting position of the pedal relative to the str	oke when the pedal	0~200	125	Î
6 Start the acceleration Th		1	The position of the pedal starting to accelerate, relative to the stroke		0~300	150	I
7	The rising stroke of t	he foot	The position of the pedal in which the foot is lifte	d, relative to the	0~200	70	Ι
8	Trip under foot pressu	stroke when the pedal is neutral The position of the pedal in which the foot is lowered, relative to the		0~200	110	Ι	
9	Cut-line action stroke	1	hen there is no lifting function, the pedal position	of the starting	0~150	70	Ι
10	Cut-line action strok	e 2	When the foot is lifted, the pedal position of the s	tarting shear line	0~150	40	Ι
dle Para	ameters	ji	s relative to the stroke when the pedal is neutral				
2	Maximum speed Minimum speed		lax1mum sewing speed		2000 3500 rpm 150 300 rpm	2500	I
3	Upper dead angle Lower pin position		pper dead angle 'osition adjustment of lower stop needle		$\frac{250 \sim 360}{0 \sim 200}$	290 60	I
5 6	Stop angle Noise Reduction Functi	on	150 Noise Reduction Regulation		180~360 0~150	360 8	I
7 8	Motor weighting Motor weighting		i invalid 1: valid 15 Strength regulation		0/1 0~15	0 2	I
9 10	Reverse lift enable Reverse lift angle		everse needle angle		0/1 0~45°	0 20	I
11	Fine tuning of the pin Maximum pedal speed		ine tuning of the pin et the maximum nedal speed		0~200 200 2500 rpm	100 2500	I
13	Pin mode settings Needle angle		'in mode settings eedle angle		0/1/2/3 0~200	0	I
15	Upper angle		pper angle		0~360	300	I
10	Layout angle settings		ayout angle settings ayout angle setting		150~300	40 195	I
18 and 10	Pin position enables 0: invalid 1: valid over roller compensation			0/1			
1 2	upper roller compensat Lower roller compensat	ion I	pper roller compensation ower roller compensation		0~40 0~40	0	I
3	Positive compensation f of the upper roller	for the first needle	ositive compensation for the first needle of the up	per roller	0~100	0	Ι
4 Positive compensation for the first needlep of the lower roller		for the first needle	Positive compensation for the first needle of the lower roller		0~100	0	I
5	Negative compensation f of the upper roller	for the first needle	egative compensation for the first needle of the up	per roller	0~100	0	I
6	Negative compensation for the first needle of the lower roller High-speed current of the upper roller High-speed current of lower roller High-speed current of lower roller High-speed current of lower roller		egative compensation for the first needle of the lo	wer roller	0~100	0	Ι
7 8				$1\sim 5$ $1\sim 5$	5 5	I	
9 10	Upper roller low speed Lower roller low speed	current current	pper roller low speed current ower roller low speed current		1~5 1~5	3	I
em debu 1	gging-system aging Mode selection		utomatic test mode setting			 T	
			: Standard time mode : Stitch number mode (P98 sets the number of stitch : Simple time mode : Factory aging mode (do not use this mode on the m	es) achine head)	0~3	1	Ι
2	Running speed Automatically test the maximum speed setting operation hours Automatic test run time		200~3000rpm 0~360	2200 30	I		
4	Pause time Automatic test pause time setting Pun switch D. involid 1. wolid		0~360	20	I		
and ri	ght boundary compensati	on	oft and right house and right house		02	4	
1 2	Left and right boundary compensation switch Left and right boundary compensation switch Left compensation upper scroll wheel value Left compensation upper scroll wheel value		0~2 0.0~10.0	0.0	l I		
3	Left compensation lower Number of left compens	compensation lower scroll wheel value eft compensation lower scroll wheel value er of left compensation stitches Number of left commensation stitches		0.0~10.0	0.0		
5	Right compensation upper scroll wheel value Right compensation upp		light compensation upper scroll wheel value	pper scroll wheel value		0.0	1
6 7	Kight compensation lowe Number of right compen	er scroll wheel value sation stitches	and the second s		$0.0 \sim 10.0$ $0 \sim 9$	0.0	
Fr	ror codes						
de F	Fault display F	ault content	Possible causes of failure	Inspe	ection items, proce	ssing	1.2.
2	Notor sim	nal malfunction	Notor position sensor signal malfunction	Electrical plugs a Detector Damage to	are in good contact	Electrica	al Sig
	EUTI EUT2			Sewing Machine Ha Whether the motor	nuwneel Installed plug is in good con	tact with	the r
'8	E021 E023 Motor over	rload	Motor plug motor overload	or the shearing m Sewing fabric ove:	r gauge thickness		
	Current dete		Whether the system	signal is normal icurrent detection	circuit i	s work	
3	LIVI Hardware-d	ariven fallures	ue rec l 1011	property			

III. system monitoring status

Operation panel default mode, press parameter settings key to enter the list of internal parameters, and then click on the system debugging-system information into the monitoring

interface.

Project name	Unit	Project name		Unit	
Motor speed	rpm		Motor Current	0.01 A	
Bus voltage	V		Pedal voltage	0.01 V	
Mechanical Angle of Head	Degree		Initial motorangle	Degree	
Master version number /			HMI versionnumber	/	
Main control model	/		HMI model	/	

15	E133	OZ circuit fault	Abnormal OZ circuit	Does the system OZ loop work properly
				Automatic Resistance Plug in Good Contact with Automatic
16	E134	DBFLT fault	Automatic Resistance Circuit Unnormal	Resistance Damage
18	E201	Excessive motor current	Abnormal current detection Abnormal operation of motor	System current detection circuit is working properly Motor signals are normal
19/20	E211 E212	Abnormal operation of motor	Abnormal operation of motor	Motor plugs are in good contact with motor signals
24	E402	Foot pedal ID malfunction	Pedal Identification Fault	Loose pedal joint
25	E403	Pedal Zero Correction Fault	Pedal zero correction beyond range	The pedal is not stopped when the pedal is damaged or corrected
26	E501	Troubleshooting switch	Turnover Switch	Drop the nose or check the flip switch
27	P. oFF	Power-down display	Power off	Waiting for power to re-open
28	EvAL	Trial protection failures	Trial time	Contact Agent
31	E601	Hardware-driven failures	Hardware overcurrent STEP2 pendulum motor	Whether the system current detection circuit is working properly
32	E602	Hardware-driven failures	Current STEP2 Software of Swing Needle Motor	System current detection circuit is working properly Damage to drivers
33	E603	Hardware-driven failures	STEP2 Current Detection Circuit of Swing Needle Motor	Whether the system current detection circuit is working properly
34	E604	Motor signal malfunction	Initial mechanical angle STEP2 swing needle motor	Electrical plugs are in good contact
35	E605	Motor signal malfunction	An initial encoder or rotor STEP2 a pendulum motor is stuck	Is the motor plug in good contact with the machine
36	E606	Hardware-driven failures	Electric winding circuit STEP2 swing motor	System current detection circuit is working properly Damage to drivers
40	/	Failure of the upper roller stepper motor	Hardware overcurrent of upper roller stepper motor	The upper roller stepper motor plug is in good contact Damage to drivers
41	/	Down Roller Stepping Motor Failure	Down Roller Stepping Motor Hardware Overcurrent	Whether the lower wheel stepping motor plug is in good contact with the drive device damage
/	L. bob	Bottom line tips	The bottom line count is negative	After changing the bottom line, press the S button to cancel the prompt
/	P. bob	Piecework Tips	The count value is zero	Press the S key to enter the interface, long press the "front fixed seam" key more than 2 seconds to cancel the state of prompt
43	E613	Fan failure	Fan stalled	Whether the fan plug is in good contact Whether the fan blades are contacted by foreign objects and cannot rotate

ailure of brake circuit with over-voltage Error in voltage detection

in detection of actual low

bnormal current detection

rror i oltage

ver-voltage system

ow voltage system

10/11

12/13

14

E111 E112

E121 E122

E131

the incoming voltage of the system is too high ake resistance will work properly e system voltage detection loop works properly

w incoming voltage ne system voltage detection loop works properly

System current detection circuit is working properly

Note: 1, abnormal sewing action (abnormal steering, electromagnet action, etc.): enter the monitoring interface to see if the model is correct
2, flip the fault E501: determine whether the switch detection is normal, temporary use can change Turnover safety switch parameters.
3. if the above failure can not be eliminated according to the inspection items, please seek technical support.