

WR56A-C01 simple sewing specification V1.0

1.Safety considerations

Before use, please read the technical data and the collocation of sewing machine instructions, cooperate to use correctly.

1.1 (1) the power supply voltage and working frequency: please follow the specification of the motor and control box nameplates.

(2) electromagnetic interference: please stay away from the high frequency magnetic wave machine or radio transmitters and so on, in order to avoid the electromagnetic interference of the driving gear and wrong action occurred.

(3) the ground: in order to prevent noise interference or the leakage accident, please get the grounding engineering (including sewing machine, motor, control box, the locator).

1.2 Remove the motor or control box, not charged pull plug: There is danger high voltage control box, and so have to wait more than 1 minute after shut off the power before open the control box cover.

1.3 In order to guarantee the personal safety, please repair machinery or needle shut off the power when working.

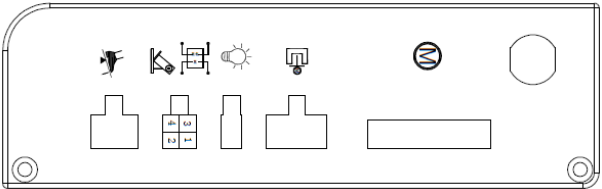
1.4⚠ The marking symbol machine installation, if there are any mistakes could harm to human or machine will be damaged.

So there will be the machine has a dangerous place.

⚠ This flag symbol such as high voltage, electrical dangerous places will have this flag.

1.5 This device to ensure the normal working condition and no human error under the action of warranty period is one year.

2.Electric control interface definition



Ⓜ : Servo motor power socket.

Ⓜ : Servo motor encoder socket.

Ⓜ : The pedals socket.

💡 : 20V clothes lamp.

Ⓜ : Valve drive 20 v(The positive, 3 feet negative 1 foot)Connect a relay to control the ac power, equipped with a suction device, suction function can be realized.

Ⓜ : Turned Taiwan switch(2, 4 feet)

Sewing without this feature, applies only to flat car product.

3.Electrical installation method

1.Nose needle under the needle bar (corresponding to the nose on the right side of the shaft lever recess upwards), as shown in figure A and B.

2.The nose on the right side of the shaft lever on the fan, tighten the two screws on the fan, as shown in figure C.

Note: fan is one of the screws to aim at the groove on the shaft lever.

3.The nose on the right side of the connecting shaft rod on metal (rubber) one-piece shafts screw down the screws, as shown in figure D.

Note:

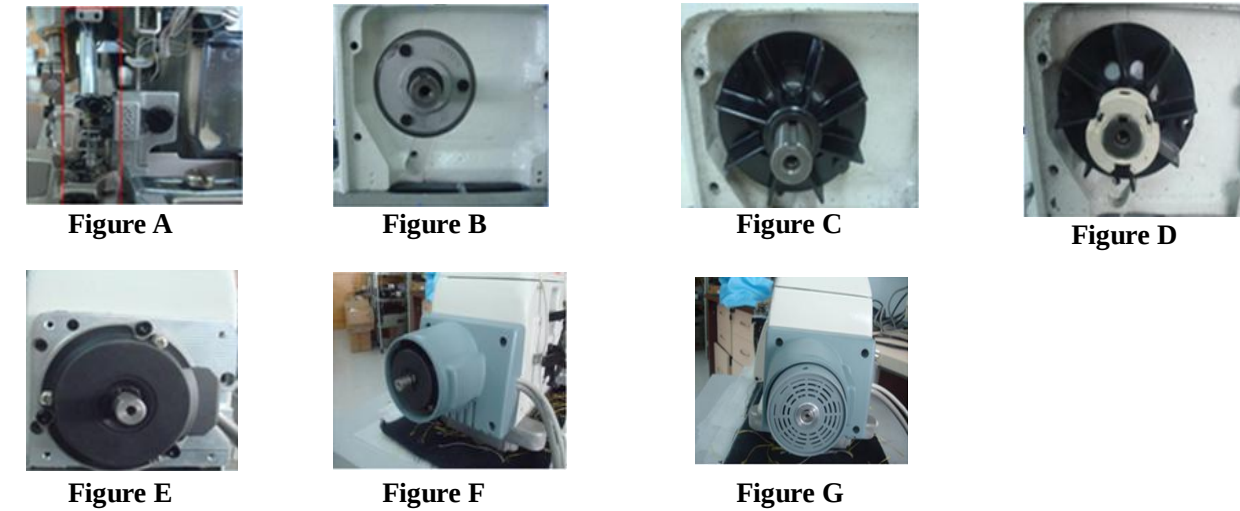
3.1Even the shaft on one of the screws to aim at even the shaft lever recess, The coupling plane and head to the shaft connecting rod level.

3.2After the pack to confirm the nose on the right side of the shaft lever recess upwards.

4.The motor shaft (perfectly on the handwheel position) milling face up, behind the electrical outlet in the nose, even the rod into the nose, with three screw, as shown in figure E.

5.The shielding set of motor, the motor protective gap position toward the electrical outlet, motor qualification card first into the gap, with four screw, as shown in figure F.

6. Put the hand wheel on the motor shaft, one of the screws on the handwheel to aim at the motor shaft milling surface, tighten the screws, as shown



4.The instructions on operation panel

4.1 Keys function description

Serial number	Keys	Describe	Serial number	Keys	Describe
1	P	The function keys	3	⬆⬇⬆	Add key/needle up and down a composite key
2	S	The storage of key	4	⬆⬇⬆	Key/soft start composite key

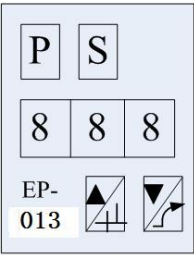
4.2 Monitoring mode

Standby mode, press the S key for 2 seconds long, into the monitoring status, the serial number keys according to the change of monitoring, monitoring value cannot be modified.

Specific content are as follows:

According to the	Project name	unit		According to the	Project name	unit
SPD	speed	(*10) rpm		DJ	The Angle	The degree of
CUR	current	0. 01A		VER	version	/
UDC	voltage	V				
ID	Machine code	C01				

Press the S key, enter the specific value, press P to exit and return to standby mode.



5.Operating mode

5.1Parametric model

Setting parameters: ordinary parameters, senior parameters; Enter the advanced parameters need to enter a password. Parametric model ban system (P23 parameters except)!!!! The motor running, the key block.

Short press P 1 second, into the common parameter model, display P01 serial number: P 0 1

Press ▲▼key change parameters of the serial number, press the S key, according to corresponding parameters, press the ▲▼key changes: 3 7 0

a) Press the S key saved, display the next parameter number, press P key to exit.

b) If direct press P, parameter save exit.

5.2 Advanced mode

Enter the advanced parameters, need password. Long press P more than 3 seconds, enter the password input interface, the system shows: 0 0 0 Starting from the highest flashing, press ▲▼ key change, the range of 0 ~ F, press the S key switch position. If P key check the password, if the password is correct, according to senior parameters serial number: P 0 1

If the wrong password, return 000 display (still flashing from that high). Again according to the P key to exit. The default password 111. Software should be set a master password. After entering to senior parameters, can display the same common parameters. Reset password: electricity at the same time, according to the ☑ key, enter the password reset interface, the system is required to enter your old password, the screen display first: 0 0 0

Starting from the highest level, through the S key switch position, ▲▼key change, press P to confirm input.

1) If the correct password (assuming 111), the decimal point lights up, starting from the highest twinkle again, setting A new password (555) for “every” 0 ~ 9 “values” A to Z “”, set after press P to confirm interface:S key ▲▼ key select YES, save and show oFF, suggests power, according to the P key exit: 1.1.1. → 5.5.5. n 0 → y E S → o F F

2) If the wrong password, it returns 000 show. After the mistyped 3 times, will show oFF, prompt without electricity.

5.3The motor Angle test mode

Press the S key on electricity, into the motor Angle test mode, the system shows: d J , Press “P + ▼ key” to begin testing, after testing, show the motor Angle. 1 5 6 Only using, exit from this mode.

Note: the above display Numbers only for your reference, the actual data shall prevail.

5.4 Needle bar lamp switch:Standby mode, every short press the “S” key, needle bar lights on or off, circulation in turn.

5.5 Pedal zero calibration: Press ▲key boot, operation box shows “PDL”, according to the key of “P + ▼”, zero success will display the current zero value, for example” - 5 “; If the pedal and electric control does not match the displayed “E15,” is to replace the pedal tests.

6.System parameter list

Serial numbe	Parameters are defined	Set the range	Default value	note
1	Sewing speed	20~700	550	Actual representative 5500, the actual value shown multiplied by 10
2	Soft start pin number	1~10	2	
3	Soft start speed 1	20~200	60	Actual representative 600, the actual value shown multiplied by 10
4	Soft start speed 2	20~200	100	Actual representative 1000, the actual value shown multiplied by 10
5	Soft start speed 3	20~200	150	Actual representative 1500, the actual value shown multiplied by 10
*6	To speed up the time	1~250	15	Actual representative 300ms, the actual value of the show multiplied by 20ms
*7	Deceleration time	1~250	15	Actual representative 300ms, the actual value of the show multiplied by 20ms
8	Simple sewing mode setting	0~1	0	0: invalid 1: effective
9	Electricity location choice	0~1	0	0: Don't find a needle 1: Automatically find the needle
11	Pedal curve to choose	0~2	0	0: normal 1: To speed up slow 2: Speed is fast
14	Air suction mode selection	0~250	1	0: Shut down 1: Long suction 100: 100 needle suction 150: 150 needle suction 200: 200 needle suction 250: 250 needle suction
15	Suction time	1~50	5	For 0.5 seconds, the actual number is multiplied by 0.1 seconds
19	Under the needle Angle	30~240	177	Relative to the needle on the point of view
20	Restore the factory parameter	0~2	0	0: Don't back 1: Restore normal parameters 2: Restore all the parameters
*21	High speed sewing	30~700	600	Actual representative 6000, the actual value shown multiplied by 10
*22	Low speed torque gear selection	0~15	0	0: There is no strength 1~15: A thick strength gear
23	Benchmark position adjustment	0~240	234	Degree of unit
*25	Simulation step neutral position	-15~+15	0	
*26	Began to run the pedal stroke	10~50	25	
*27	Began to accelerate pedal stroke	10~100	50	
*28	Running high-speed pedal stroke	10~150	110	
*29	After stepping motion pedal stroke	-99~-10	-30	
*30	Aging model	0~3	3	0: Time pattern 1: Pin number pattern 2: The simple model 3: The factory pattern
*31	The aging speed	30~700	400	Actual representative 4000, the actual value shown multiplied by 10
*32	Running time of ageing	1~200	30	For 3 seconds, the actual number is multiplied by 0.1 seconds
*33	Pause time aging	1~200	20	For 2 seconds, the actual number is multiplied by 0.1 seconds
*34	Aging run pin number	1~99	30	Only in aging model 1
*40	Models set	-----	C01	Artificial setting machine with the function of automatic switching application

Note: without * id for ordinary parameters, with * mark for advanced parameters, only into the advanced parameters, P20 can be set to 2, P20 restore automatically return

7.Fault code

Fault display	Fault content	Check the project	Fault display	Fault content	Check the project
E1	Hardware flow	Grounding is good; Drive device is damaged	E12	Motor overload	Check whether the head is stuck; The actual operation of frequent deceleration
E2	Software flow	Grounding is good Current sampling circuit is normal	E13	EEPROM error	Seek technical support
E3	When stop overvoltage	System into the line voltage is too high	E14	Current detection circuit malfunction	Seek technical support
E4	When stop owe voltage	System into the line voltage is too low	E15	pedal sampling malfunction	Whether the peda plug good contacts
E5	Runtime overvoltage	System into the line voltage is too high	E16	OZ circuit fault	Seek technical support
E6	needle signal failure	Check the needle signal and plug	E17	Motor reversal	Check the motor phase sequence and signal lines
E7	Motor HALL signal failure	Whether the motor plug good contacts	E18	Motor Angle test failure	Check the motor phase sequence and signal lines; Check whether the motor is stuck
E8	Motor stalling failure	Check whether the motor line plug Whether the load is too large	E19	Safety switch failure	Please check whether the safety switch is damaged
E9	Speeding fault	Check the motor line plug	E21	No model identification code	That model
E10	Runtime owe voltage	Grounding is good Current sampling circuit is normal	E22	Model identification code overrun	That model
E11	HALLA Signal loss	Check the motor line plug	E25	Z encoder signal failure	Whether the motor plug good contacts

Note: if the fault cannot be ruled out according to the inspection items of the above, please seek technical support.

8. accessories

Serial numbe	Product name	Qty:	Specifications	Serial numbe	Product name	Qty:	Specifications
1	Electric abinet	1	WR56A-C01	7	handwheel	1	WR569-C01/ diameter of 78mm
2	pedal	1	PL-302	8	Screw attachment	1	
3	ball string rod	1		9	Custom line	1	CS1545A1/ Needle bar lights custom line
4	motor	1	80SF90-B5000 (7AD2)	10	fan	1	
5	instructions	1	English version	11	Even the shaft device	1	
6	shielding	1	WR569-04-01A				