

WR5817 Simple Integrated Motor Manual for Overlock Sewing MachineV1.0

1.Safety Precautions:

- Before use, please read carefully both the technical data and the operation instructions of the corresponding sewing machine for proper operation.
- (1) Power supply voltage and working frequency: please follow the specification of the motor and the nameplate of control cabinet.
 - (2) Electromagnetic wave interference: please keep the machine away from the high frequency magnetic wave machine or radio transmitters, etc., in order to avoid malfunctions caused by the electromagnetic interference to the driving gear.
 - (3) GND: To prevent noise interference or the electric leakage accident, please ensure proper earthing (including the sewing machine, motor, control box, and locator).
- 1.2 Before tearing down the motor or control box, make sure the plug is not charged; to avoid the dangerous high voltage in the control box, only more than 1 minute after the power is off can the cover be opened.
- 1.3 To guarantee personal safety, make sure the power is off when repairing the machinery or needling work is on.
- 1.4  This symbol signifies that in the machine installation any mistakes could cause harm to human body or damage to the machine.
-  This symbol, which can be seen in places of electrical dangers, is a warning of such dangers as high voltage.
- 1.5 The warranty period will be one year if the machine is working under normal condition and not mistakenly operated.

2. Parameter Table:

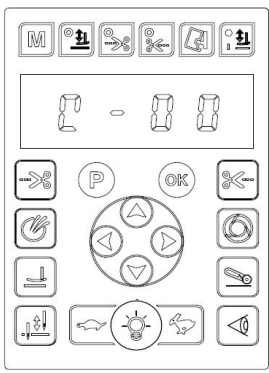
Serial number	Function parameter	Default	Range	Step	Parameter specification	Grade
1	Operation Mode Selection	1	1		1: manual	I
19	Presser foot function	1	0-1	1	0: invalid 1: valid	I
21	Needle position selection	0	0~1	1	0: upper needle position 1: lower needle position	I
22	Power on to find the above needle position	0	0~1	1	0: invalid 1: valid	I
23	Needle bar lamp brightness	3	0~5	1	0: no brightness 5: high brightness	I
40	Soft start pin number	0	0~9	1	0: no soft start 1~9: soft start pin number	I
41	Soft start speed	800	200~3000(rpm)	100	Soft start speed	I
42	Low-speed speed	300	200~400(rpm)	100	Minimum sewing speed	I
44	Sewing speed	4000	200~ P50 (rpm)	100	Actual sewing speed setting	I
49	Restore to factory parameter	0	0~15	1	5: restore the current level factory parameters 8: restore the current level and sewing factory parameter set According to S button, select yes, then press the S key execution	I
50	maximum sewing speed	4500	300~6500(rpm)	100	Maximum sewing speed	II
55	Presser foot confirmation time	80	10~300(ms)	10		II
56	Presser foot electromagnet full pressure time	150	0~800(ms)	10	output time of total pressure of pressor foot lifting	II
57	Presser foot electromagnet duty ratio	40	0~100%	1	output duty cycle of pressor foot lifting forced shut-down after hold time of pressor foot lifting	II
58	Presser foot electromagnet hold time	12	1~60(s)	1	output duty cycle of pressor foot lifting	II
60	Pedal curve selection	0	0~2	1	0: normal 1: slow down increasingly 2: speed up increasingly	II
61	Pedal neutral position	0	-15~15	1	Trimming the neutral position of the pedal	II
62	Start pedal stroke	25	10~50	1	Pedal position upon start Travel relative to medium pedal	II
63	Accelerate pedal stroke	50	10~100	1	Pedal position upon start acceleration Travel relative to medium pedal	II
64	High-speed pedal stroke	110	10~150	1	Pedal position at highest rotating speed Travel relative to medium pedal	II
65	Presser foot up stroke	-30	-100~~10	1	Pedal position upon pedal lift Travel relative to medium pedal	II
66	Presser foot down stroke	10	5~50	1	Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal	II
67	Back step stroke1	-30	-100~~10	1		II
68	Back step stroke2	-60	-100~~10	1		II
69	Lower stop needle angle	175	120~240 (degrees)	1	To adjust down needle position	II
75	Nose benchmark position	120	0~240	1	Needle position adjustment	II

3.System Monitoring State:

In the default mode of the operation panel, normally, when the p key combined with  mode key are pressed, the monitoring state will be activated. Then, pressing the up or down arrow key will make you known to the relevant monitoring parameter. Enter the System monitoring state. Press the + or - key to choose the item you want to view and key S to enter or return the selected item. If you want to exit the monitoring interface, press the P key.

Display No.	Project Name	Unit	Display No.	Project Name	Unit
U1	Motor speed	rpm	U6	Initial motor angle	degrees
U2	Motor current	0.01A	D1	DSP version	V
U3	Busbar voltage	V	D2	DSP model	F70
U4	Pedal voltage	0.01V	H1	HMI version	V
U5	Nose mechanical angle	Degrees	H2	HMI model	C76

4. Operating box button:



Function	According to the key	Describe
Motor speed regulation (fast)		
Motor speed regulation (slow)		
The lamp brightness adjustment		
The function keys		
Identify key		
The up and down or so key		
The needle a choice		LCD right of the first one diait (stop the needle) at 0 Switch and 1 (lower needle stop). with immediate effect, the corresponding parameter table P21.

Liquid crystal display shows

From the left the first display	On behalf of the motor rotation direction
Second from the left shows	There is no meaning
From the left third display	On behalf of the soft start function (0 represents off, 1 on behalf of open, corresponding parameter table P40.)
The fourth from the left	On behalf of the needle up and down function

5. Function shortcut Settings:

Password mode: long press " " button to enter the password mode ,after entering parameters continue to press the " "key not to put, liquid crystal display 0000, according to the left and right arrow keys to change the position, according to the up and down keys to change the corresponding location value, if the password is correct, press the " "key, can view the advanced parameters.

Note: the grade I parameters without password; Class II parameter password as "1111".

Restore factory Settings: long press "" button to enter parameter interface, enter the" P49 parameters will show "" 0", then transferred to the "8" right "direction", press "OK" button will be displayed after the "no", then press the "direction key" to "yes", then click "OK" button.

6. Failure code:

Failure Indication	Failure:	Possible Causes	Checking Items and Handling
E011/E012/E013/E014	Electrical failure	Sensor signal failure in motor position	Whether the motor plug connects well. Whether electrical signal detection device is damaged Whether handwheel of the sewing machine is well installed.
E021/E023	Motor overload	Motor stalling Motor overload	Whether the motor plug connects well. Whether sewed material is thicker than that of the standard one. Whether current detection signal is normal
E101	Hardware drive failure	Abnormal current detection Driving device direct connection	Whether circuit for detecting system current works normally Whether drive device is damaged
E111/E112/E113	System voltage is too high	Actual voltage is higher Braking circuit fault Something wrong with voltage	Whether system inlet wire voltage is too high Whether braking resistor works normally Whether system voltage detection circuit works normally
E121/E122	System voltage is too low	Actual voltage is lower Something wrong with voltage	Whether system inlet wire voltage is too low Whether system voltage detection circuit works normally
E131	Current detection circuit malfunction	Abnormal current detection	Whether circuit for detecting system current works normally
E141	System data read/write failure	Abnormal system data reading/writing	Whether system data read circuit works normally Whether data chip is damaged
E201	Motor current is too large	Abnormal current detection Abnormal motor running	Whether circuit for detecting system current works normally Whether electrical signal is normal
E211/E212	Abnormal motor running	Abnormal motor running	Whether the motor plug connects well. Whether electrical signal is correct
E301	Operation box communicates not well	Loss of head operation box communication data	Whether operation box plug connects well Whether operation box is damaged
E302	Operation box saves wrong data	Operation box saves wrong data	Check whether storage chip of operation box is damaged
E402	Pedal fault	Pedal did not answer	Check whether the connected pedal
E403	Pedal zero position correction failure	Pedal zero position correction beyond the scope	Pedal damages or correcting when pedal is not in the stop state

7. Accessories included

Serial number	Product name	Qty:	Specifications	Confirmation	Remark
1	Electric cabinet	1			
2	Ball rod string	1			
3	Foot Plates	1	PL-305		Including stents
4	Pedal set screw	3	M5×25		Hex flange tapping screws
5	Specification	1			
6	Power cord	1			