

JK-E4 Power-saving Overlock Operation Manual

1. Display and Operation Panel

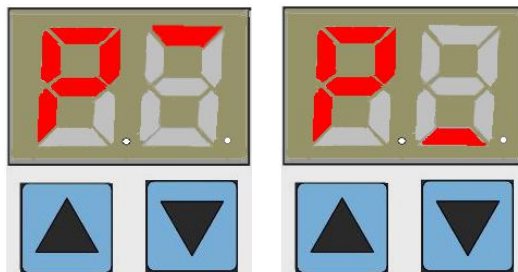


No.	Icon	Description	Remark
1		UpKey	Max. speed setting and parameter adjustment
2		DownKey	Reset to factory defaults parameter, enter into setting mode, set max. speed and so on.

Note: The panel can't be operated when machine is running

2. Standby mode

The left digital display shows “P” on standby mode, the right digital display shows the current needle position, picture 1 shows the upper and lower needle position



Picture 1: upper and lower needle position mode

3. Speed adjust

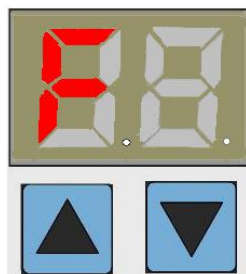
The panel shows “P”, short press or to adjust speed up 100RPM and down 100RPM, long-press () speed rapidly up (down), parameters are autosaved.

4. Needle position adjust

The panel shows “P”, press to set the position up or down. Parameters are autosaved.

5.Parameter settings

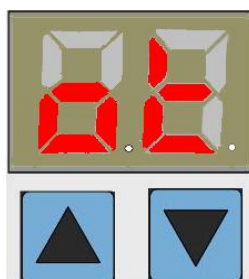
In the standby interface press ▲ and ▼ for 3 seconds, enter the interface of parameter settings. The first tube display F, the second tube doesn't display.(it called F interface, one of the setting interfaces) , showed as picture 2



F interface

after entering the parameter setting interface press ▲ to change the parameter number, press ▼ ,will show the corresponding parameter values, then press ▼ again to change the parameter values, after changing it, press ▲ to save it, on the panel will show OK (showed in the picture 3), then return to the interface of parameter number, if the parameter doesn't change, it will directly return to the interface of parameter number. In the parameter setting interface motor will back to standby interface. The serial number on will be recycling on the F interface as followed:

Serial NO.	parameter	range	Factory settings	noted
k	LED light adjustment	0 - 3	2	0:off 1:level 1 2:level 2 3:level 3
L	Limited sewing speed	05 - 55	50	Decline by 500rpm every time
M	Switch of needle position	0 - 1	1	0: off 1: on
H	Dormancy time	0 - 6	3	unit: 10min 0:off
v	Speed display	0 - 1	0	0: off 1: on
w	Power display	1-99		1:≤10W, 99:≥990W
r	Undervoltage alarm value	0、14、15	15	0: off 14: 144VAC 15: 154VAC
Y	Overvoltage alarm value	0、26、27	26	0: off 26: 264VAC 27: 274VAC
J	Serial NO query	Can't be set		Showed on the machine



picture 3 oK

6.Power Display

Enter into “system parameter setting mode”, press ▲ and change to “w” parameter mode, then press ▼ will real-time display the current power consumption of machine. When the machine is not working ,press ▲ will return “w” parameter mode.

7. Reset to Factory Defaults Parameter

In stand-by mode, press ▼ for 3 seconds, All the parameters of the restore factory Settings, the panel shows “oK”.

8.Durability test

Press ▲ for 3s enter durability test, during onely the first digital tube show “T” . Durability parameters are described as follows. If the motor is running when setting the durability parameter, it exits to the standby interface, In the setting of durability parameters if the motor is running out to the standby interface in the durability of the short button after the machine will enter ▼ he durable mode of operation in the short duration of the short button ▼ to exit the normal sewing mode.

Number	Function parameter	Range	Default value	Parameter description
	Working time	1 - 9	3	unit: s
	Stop time	1 - 9	3	unit: s











Note:the parameters are used to set the durable model

9.A Key to clear the error



























When machine shows error, Please press the ▲ to recheck if the error still exist. If is not, it means already clear. Or still exist shows the error (this function only for E4, E5 and E6); when the system show the E5 (Position signal error), please press the ▼ to turn off the needle position function until the error clear. If still error, please check the machine with error code as follow:

10. Digital tube display Introduction


Number Part:

Number	0	1	2	3	4	5	6	7	8	9
Digital tube display										

Part of the English alphabet:

English alphabet	A	B	C	D	E	F	G	H	I	J
Digital tube display										
English alphabet	K	L	M	N	O	P	Q	R	S	T
Digital tube display										
English alphabet	U	V	W	X	Y	Z				
Digital tube display										

11. Error code list

Error code	Reasons	Solutions
E1	Motor stuck The plug of motor loose or drop	The motor run out of load capacity, please reduce the load capacity for the motor and then restart the motor Please check if the plug of motor loose or drop Please check if the sewing material is too heavy Please check if the machine needs lubrication.
E2	Motor controller abnormal	Motor used too much ,Restart machine after several minutes, then please check if the fabric much too heavy.
E3	Parameter save abnormal	Restart machine after several minutes or reset machine (press  3s). If the problem unsolved, please contact dealers.
E4	Hall of the motor with problem	Please check if the 10core line connect well or not, please check if the connect line of hall is well or not

E5	Needle position with problem	Please turn the handwheel, if can't eliminate alarm, after switching the machine off and restarting, if the positioner connect well. Please check if the positioner connect well (if the positioner damage or don't need needle position function and with Er5 code, please press the right side key around 3seconds, enter the parameter adjustment model, to set the parameter M value into 0 can turn off the needle position function)
E6	Speed governor abnormal	Please check the plug connect or not. If plug connect well, check the coder wire broken or not. If can't eliminate the alarm, please replace speed governor
E7	Current detection and circuit fault	Please check whether the circuit board is clean. Please check whether the power voltage is normal Please wait after restarting the power or reset (please carefully check each function of the power board)
EA	Hardware over-current	Please cut off the power and restart Please check whether the supply voltage is normal Please try to restore factory defaults
Eb	System over-voltage	Immediately cut off the power, and check whether the supply voltage is too high, if yes, please adjust the rated voltage, then start to work (rated voltage: 220v)
EC	System under-voltage	Immediately cut off the power, and check whether the supply voltage is too low, if yes, please adjust the rated voltage, then start to work (rated voltage: 220v)
Ed	Brake resistor protection	Please check whether the plug of brake resistor is loose or drop off Please check whether the supply voltage is normal Please try to restore factory defaults or restart

Note: If still can't eliminate the error alarm after trying the above methods, please contact dealers to deal with in time.