

奥德克
AUDAC

MODEL : 891H

操 作 手 册

OPERATION MANUAL

全自动一体机使用说明书 V1.0

Integrated machine Instruction manual V1.0

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1. 安全上的注意事项:

使用前请详细阅读本技术资料与所搭配的缝制机械说明书，配合正确使用。

1. 1

(1) 电源电压与工作频率：请遵照马达与控制箱铭牌所标之规格。

(2) 电磁波干扰：请远离高频磁波机器或电波发射器等，以免所产生的电磁波干扰本驱动装置因而发生错误动作。

(3) 接地：为防止杂讯干扰或漏电事故，请做好接地工程（包括缝纫机、马达、控制箱、定位器）。

1. 2

拆卸马达或控制箱时勿带电拔插；控制箱里面有危险高压电，所以关闭电源后要等 1 分钟以上方可打开控制箱盖。

1. 3

为保证人身安全，请在维修机械或进行穿针作业时关闭电源。

1. 4



这个标示符号表示机器安装时，如有错误恐会伤害到人体或机器会受到损坏，所以机器方面有危险性的地方会有此标志。

1. 5



这个标志符号表示有高压电等，电气方面有危险性的地方会有此标志。

1. 6

本装置保证在正常工作情况且无人为失误的操作下，保修期为一年。

1. 7

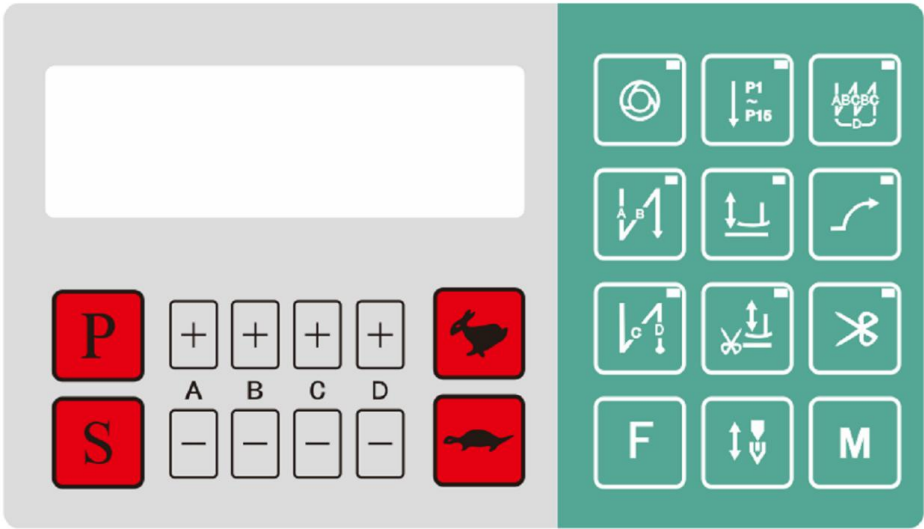
接地方法说明

(1)  用电安全提示：为防止杂讯干扰或漏电事故，请做好接地工程。

(2) 接地步骤一，要求  O 型接地端子一端接机头端，固定在机头下方有螺丝处。

(3) 接地步骤二，要求  鳄鱼夹端固定接地端（可夹在生产线铁架或者接地的铁架上）。

2. 操作盒使用说明



2.1 按键介绍

功能	按键	描述
起始固缝		执行起始固缝来回 1~2 次
终止固缝		执行终止固缝来回 1~2 次
连续固缝		1. 前踩踏板可自动执行来回缝纫动作，次数由 D 段设定，最高可达 15 次。 2. 连续固缝模式默认为触发模式，无需一直踩踏板。 3. 该功能有效时，前后固缝设定无效。
定针缝触		1. 此键定针缝有效。触发踏板，系统自动执行 E、F、G、H 段的针数，无需一直踩踏板。

发		2. 连续固缝模式，此键对应的灯常亮，表明连续固缝模式默认为触发模式。
剪线选择		设定或取消剪线功能。
停针位		设定停针位快捷键，按键有效为上停针，取消按键功能设定为下停针。
中间压脚		中间抬压脚使能设定快捷键：设定或取消中间抬压脚功能。
剪线压脚		剪线后抬压脚设定快捷键：设定或取消剪线后抬压脚功能。
软启动		软启动设定快捷键：设定或取消踏板软启动功能。
示教功能		设定或取消示教功能。（适用液晶操作面板）
多段设定		段针缝设定，最多可设定 P1~PF 共 15 段的针数（适用液晶操作面板）
功能切换键		自由缝/W 缝/多段缝功能切换

针数 设定 /查 看选 择		1、执行该键，可循环切换显示屏上中下针数设定的显示值。 上端：A、B、C、D 段针数，对应水平灯亮； 中段：E、F 段针数，与之对应水平灯亮； 下端：G、H 段针数，与之对应水平灯亮。 2、对应 A、D 段针数，可设范围 0~15 针，B、C 段针数，可设范围 1~15 针，其中，液晶显示 A、b、C、d、E、F 字样各代表 10、11、12、13、14、15 针。对应 E、F、G、H 段针数，可设范围 0~99 针。 3. 对于带夹线功能机型，长按此按键可显示夹线力度调整（上中下三个指示灯同时亮，液晶显示“[_7]”），再次按该键退出
参数 设定		进入不同参数级别 缝纫设定界面下短按 P 键进入【参数界面】，此时显示参数列表中级别为 I 的参数。 缝纫设定界面下长按 P 键进入【密码输入界面】，输入正确维修密码后按 P 键进入【参数界面】，此时显示参数列表中级别为 I 和 II 的参数。
调速 键		减调速键。连续按下，缝纫速度降低，显示屏自动切换为速度设定值。简易缝，自由缝有效。（适用液晶操作面板）
		增调速键。连续按下，缝纫速度升高，显示屏自动切换为速度设定值。简易缝，自由缝有效。（适用液晶操作面板）

3 系统参数表

NO	项目	内容	设定范围	级别
1	踏板最高速	设定踏板的最高转速	200~3000rpm	I
2	踏板曲线选择	0: 正常 1: 加速慢 2: 加速快	0/1/2	I
3	计件倍率设定	0: 无计件功能 1~20: 计件按倍数+1	0~20	I
4	前固缝速度	前加固缝速度	100~3000rpm	I
5	后固缝速度	后加固缝速度	100~3000rpm	I
6	连续固缝速度	连续加固缝速度	100~3000rpm	I
7	倒缝开关限速速度	可以防止倒缝断针	500~1500rpm	I
8	软起动功能	0: 无软起动功能 1~99: 软起动针数	0~99	I
9	定长缝最高速	设定定长缝最高度	200~3500rpm	I
10	简易缝纫模式设定	0: 自由缝纫 1: 简易缝纫	0/1	I
11	倒缝开关功能设定	0: 仅倒缝 1: 倒缝加补针 2: 仅倒缝, 待机不动作	0/1/2	I
12	装饰性固缝设定	实现完美装饰性固缝针迹的功能 0: 无效 1: 有效	0/1	I

13	前固缝结束后停止	0: 无效 1: 有效	0/1	I
14	软启动速度 1	软启动第 1 针速度	100~3000rpm	I
15	软启动速度 2	软启动第 2 针速度	100~3000rpm	I
16	软启动速度 3	软启动第 3~9 针速度	100~3000rpm	I
17	压脚软下降功能	0: 无效 1: 有效	0/1	I
18	前固缝补偿 1	前固缝针迹补偿参数	0~100	I
19	前固缝补偿 2	前固缝针迹补偿参数	0~100	I
20	上电定位	0: 无效 1: 有效	0/1	I
21	标准固缝速度模式	0: 自动固缝速度 1: 踏板速度	0/1	II
22	缝纫最高速度	缝纫最高转速	200~3500spm	II
23	倒缝开关限速	防止倒缝断针 0: 无限速 1: 有限速	0/1	I
24	加重功能	0: 无效; 1~15 力度调节	0~15	II
25	后固缝补偿 1	后固缝针迹补偿参数	0~100	I
26	后固缝补偿 2	后固缝针迹补偿参数	0~100	I
27	装饰固缝停顿时间	装饰固缝停顿时间设定	5~500ms	I

28	反转提针功能	0: 无效 1: 有效	0/1	I
29	反转提针角度	反转提针角度	0~90°	I
30	恢复出厂参数	设置 5, 按 S 键确认后, 选择 YES, 再按 S 键确认恢复出厂值	0~15	I
31	松线释放角度	松线释放角度	270~360	II
32	踏板抬压脚命令时间	踏板后踩, 抬压脚命令有效时确认时间	10~300ms	II
33	踏板中立位置	踏板中立位置微调	-15~15 (0.1)	II
34	机头按键功能	0: 固缝翻转 1: 补针	0/1	I
35	连续固缝补偿 1	连续固缝针迹补偿参数	0~100	I
36	连续固缝补偿 2	连续固缝针迹补偿参数	0~100	I
37	开始运行的踏板行程	开始运行的踏板位置, 相对于踏板中立时的行程	10~50	II
38	开始加速的踏板行程	开始加速运行的踏板位置, 相对于踏板中立时的行程	10~100	II
39	运行高速的踏板行程	运行到最高速的踏板位置, 相对于踏板中立时的行程	10~150	II
40	压脚升起	压脚抬起动作的踏板位	-100~-10	II

	的踏板行程	置，相对于踏板中立时的行程		
41	压脚降下的踏板行程	压脚放下动作的踏板位置，相对于踏板中立时的行程	5~50	II
42	剪线动作的踏板行程 1	无抬压脚功能时，开始剪线踏板位置相对于踏板中立时的行程	-100~-10	II
43	剪线动作的踏板行程 2	有抬压脚时，开始剪线的踏板位置相对于踏板中立时的行程	-100~-10	II
44	底线倍率设定	0：无效 5/10/15/20：底线倍率	0/5/10/15/20	I
45	底线初值设定	底线初值设定	200~4000	I
46	装饰性固缝停针角度调整	装饰性固缝停针角度调整	0~120	II
47	剪线时倒缝动作功能	0：关闭 1：开启	0/1	I
48	面线检测功能设定 预留功能	0：无效 1：有效	0/1	II
60	低速速度	踏板最低速度	100~400rpm	I
61	剪线速度	剪线速度	100~400rpm	I
62	放压脚延迟时间	为确认压脚已放下的延时	0~800ms	II
63	抬压脚保持时间	抬压脚保持时间强制关断	1~60(s)	II

64	抬压脚全压时间	抬压脚全压输出时间	0~800ms	II
65	抬压脚输出占空比	抬压脚输出占空比	0~100	II
66	压脚软下降时间	时间越长压脚下降越慢	50~500ms	II
67	倒缝全压输出时间	倒缝全压输出时间	0~800ms	II
68	倒缝输出占空比	倒缝输出占空比	0~100	II
69	倒缝保持时间	倒缝保持时间后强制关断	1~60(s)	II
70	抬压脚使能	抬压脚使能设定 0: 无效 1: 有效 2: 剪线后抬压脚 3: 按键控制抬压脚	0/1/2	I
73	整机参数保存	0: 无效 1: 有效	0/1	III
75	翻抬开关信号模式	机头翻抬开关信号模式设定 0: 常开 1: 常闭 2: 禁止保护	0/1/2	I
76	上停针脚微调	上停针脚微调	90~110	I
77	上死点角度	上死点角度	270~360	I
78	剪线释放角度	剪线释放角度设定	300~360	II
79	下停针位	下停针位位置调整	0~240	I
81	机针位置	调整机针位置	0~240°	I

	调整			
82	剪线吸合角度	剪线吸合角度设定	150~200	II
83	剪线加力角度	剪线加力角度设定	200~300	II
84	减噪音功能	0~15 减噪音调节	0~15	II
87	松线吸合角度	松线吸合角度	150~250	II
88	旋钮调速功能	0: 无效 1: 有效	0/1	I
89	试用时间设定	0: 无效; 1~1000 时间调整	0~1000	II
90	松线保持时间	松线保持时间	1~60	II
132	语音喇叭功能	语音选择: 0-无语音, 1-中文, 2-英语, 3-印度语, 4-越南语,	0~4	I
133	语音大小调整	语音大小调整	0~31	II

3.1 示教模式:

在定长缝（一段、四段、程序缝）模式下，长按“F 键”，就可进入示教界面。作用如下：加减键 12：更改示教段数，段数值只能向上累加(进入下一段示教自动保存上次的针数值)，减‘—’键无效。须注意：当踏板踩下运行时，按键无效； 加减键 34：修改示教针数，在停止运行时可对针数进行调整。 补针键：按下后可以手动补针，更改针数。F 键：退出示教界面，完成对当前段数的示教（段数值覆盖原模式的各段设定）。后踩踏板剪线，将直接退出示教并保存针数值，返回之前的定长缝模式。

4. 系统监控状态

操作面板默认模式下，按 P 键后同时按下定针缝触发选择键，进入系统监控状态。通过 +、- 键选择需要查看的项目，按 S 键进入 / 返回所选项目。如需退出监控界面，按 P 键即可。

显示序号	项目名称	单位
JJ	计件数	件
U1	电机速度	rpm
U2	电机电流	0.01A
U3	母线电压	V
U4	踏板电压	0.01V
U5	机头机械角	度
U6	电机初始角	度
U7	主控程序版本/机型	/
U8	机型/主控程序版本	/
U9	DSP 编号	
VEr	操作盒程序版本	/
TYPE	软件编号	

5. 标准固缝模式针迹补偿调整

前固缝 No.18 No.19	正缝 倒缝 接合		倒缝针数变少或变短，调大参数 No.18
			正缝针数变少或变短，调小参数 No.18
	倒缝 正缝 接合		正缝针数变少或变短，调大参数 No.19
			倒缝针数变少或变短，调小参数 No.19
后固缝 No.25 No.26	正缝 倒缝 接合		倒缝针数变少或变短，调大参数 No.25
			正缝针数变少或变短，调小参数 No.25
	倒缝 正缝 接合		正缝针数变少或变短，调大参数 No.26
			倒缝针数变少或变短，调小参数 No.26
连续 固缝 No.35 No.36	正缝 倒缝 接合		倒缝针数变少或变短，调大参数 No.35
			正缝针数变少或变短，调小参数 No.35
	倒缝 正缝 接合		正缝针数变少或变短，调大参数 No.36
			倒缝针数变少或变短，调小参数 No.36

6. 故障代码

故障显示	故障内容	故障可能原因	检查项目、处理
E011 E012 E013 E014	电机信号故障	电机位置传感器信号故障	电机插头是否接触良好 电机信号检测器件是否损坏 缝纫机手轮是否安装到位
E021 E022 E023	电机超负荷	电机堵转 电机超负荷	电机插头是否接触良好 机头或剪线机构是否卡死 是否缝制规格厚度以上布料 电流检测信号是否正常
E101	硬件驱动故障	电流检测非正常 驱动器硬件损坏	系统电流检测回路是否工作正常 驱动器是否损坏
E111 E112	系统电压过高	实际电压偏高 制动回路故障 电压检测有误	系统进线电压是否过高 制动电阻是否工作正常 系统电压检测回路是否工作正常
E121 E122	系统电压过低	实际电压偏低 电压检测有误	系统进线电压是否过低 系统电压检测回路是否工作正常
E131	电流检测回路故障	电流检测非正常	系统电流检测回路是否工作正常
E133	OZ 回路故障	OZ 回路非正常	系统 OZ 回路是否工作正常
E151	电磁铁故障	电磁铁回路过流	机头电磁铁是否短路 电磁铁回路是否工作正常

E201	电机电流过大	电流检测非正常 电机运转非正常	系统电流检测回路是否工作正常 电机信号是否正常
E211 E212	电机运转非正常	电机运转非正常	电机插头是否接触良好 电机信号是否不匹配
E301	操作盒通讯不良	机头操作盒通讯数据丢失	操作盒插头是否接触良好 操作盒器件是否损坏
E302	操作盒故障	操作盒内部故障	检查操作盒器件是否损坏
E402	踏板 ID 故障	踏板辨识故障	踏板接头松动
E403	踏板零位校正故障	踏板零位校正值超出范围	踏板损坏或者校正时踏板不是停止状态
E501	翻抬开关故障	翻抬开关有效	放下机头或者检查翻抬开关
P.oFF	掉电显示	电源关闭	等待电源重新开通
EvaL	试用期限到期	试用期限到期	联系经销商处理

Integrated machine Instruction manual V1.0

ENGLISH

English manual catalog

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1. Safety instruction

Please read the operation manual and related sewing machinery data sheet carefully before correct use.

1.1 (1) Power voltage and frequency: please refer to motor and control box nameplate.

(2) Interference from electromagnetic wave: please keep far away strong magnetic or high radiation environment in order to avoid obstructions and make to misoperation.

(3) Grounding: to avoid the noise obstructions or leakage of electricity accident ,inculding sewing machine,motor,control box and positioner.

1.2 Please make sure power off at least 1min and then can open control box cover, because there are dangerous high voltage.

1.3 Please turn off the power while repairing or wearing needle in order to protect operater' s safty.

1.4  Used where potential dangers exist.

 Used where high voltage and electric danger exist.

1.5 Product warranty period of one year on condition that this machine is operated correctly and no man-made damage.

1. 7

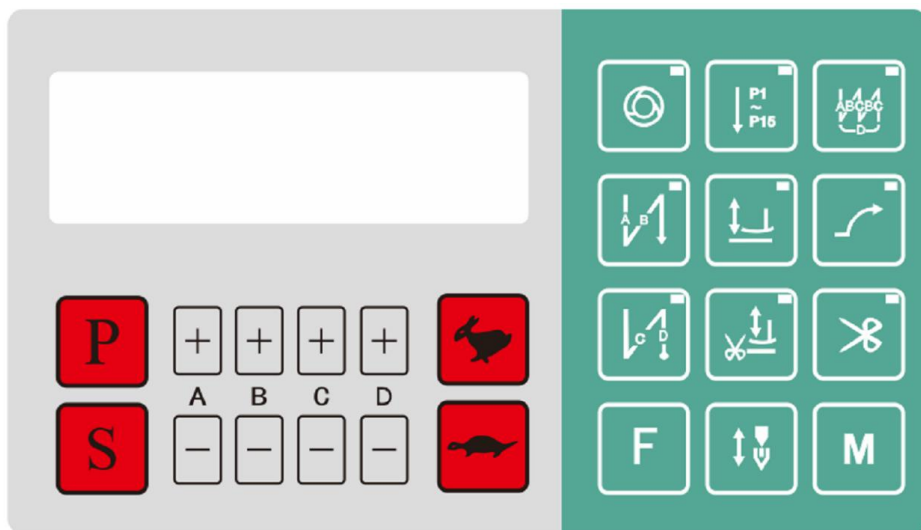
Connects to the earth method

(1)  Electric safety tips : In order to prevent noise interference or leakage accident, please do the grounding engineering.

(2) Step one , requirement  Type O terminal Connecting machine

(3) Second step , requirement  terminal Connecting earth

2.Operation box use



2.1 Button introduction

Function	Button	Described
Starting reinforcing-sewing		Execute starting reinforcing-sewing 2 times, to and fro.
ending reinforcing-sewing		Execute ending reinforcing-sewing 2 times, to and fro.
continuous reinforcing-sewing		1、 Press treadle ahead for automatic sewing, to and fro, which is set at D and can reach 15times.(F) 2、 Continuous reinforcing-sewing is in trigger mode by default, treadle doesn' t need to be kept being pressed, and corresponding trigger light of preset sewing is solid lit. 3、 Previous ending reinforcing-sewing setting is invalid if this function is valid.

parameter setting		1.For preset sewing. Trigger treadle and the system will automatically conduct sewing at E, F, G, H sections; the treadle doesn' t need to be kept being pressed.2.Solid light for continuous reinforcing-sewing mode means that it is trigger mode by default.
Starting reinforcing-sewing		Set or cancel thread-cutting function.
Needle position		Set the needle position shortcut keys , Key is effective for needle , The cancel key function is set to stop pin. .
The middle presser foot		Presser foot to set shortcut keys: set or cancel the presser foot function.
Shear line pressure foot		The shear line and presser foot set shortcut keys: set or cancel trimmer and presser foot function.
Soft start		Soft start to set shortcut keys: set or cancel the pedal soft start function.
Teaching function		Set or cancel the teaching function.
Function switch		one piece seam/several pieces seam/continuous reinforcing-Sewing Function switch
Pin number set/check choice		1.Implementation of this key, circulating switch display 3 pin number to set the display value upper end:A、 B、 C、 DPeriod of pin number,Light corresponding level; Middleend:E、 FPeriod of pin number,Light corresponding level; lower extreme:G、 HPeriod of pin number,Light corresponding level; 2. Corresponding to A D period of pin number, can set range 0 ~ 15 needle, B paragraph C pin number, can set range 1 ~ 15 needle, among them, the liquid crystal display A B C D E F on each for 10 11 12 13 14 15 stitches.
parameter setting		Entering different parameter level On the sewing setting interface, the user can press the button P to enter the Parameter Interface, then the Level I parameters in the parameter list will display. On the sewing setting interface, the user can keep pressing the button for a few seconds to enter the Password Entering Interface. After entering the right maintenance password, then the user can press the

		button P to enter the Parameter Interface, now the Level I and Level II parameters in the parameter list will display.
Sewing set program		The number of needles sewing set , Set up a total of 15 segment needle number P1~PF.
speed key		Speed down. Keeping pressing to lower speed, the display will automatically switch to speed set. Simple seam, free seam effective.
		Speed up. Keeping pressing to increase speed, the display will automatically switch to speed set.Simple seam, free seam effective.

3.System parameter table

No	Project	Content	Setting range	Level
1	Sewing speed	Set sewing speed	200 ~ 3000rpm	I
2	Pedal selection	0 : Normal 1 : Slow acc. 2 : Fast acc	0/1/2	I
3	Piece-rate setting	0:No piece-function 1 ~ 20:(Piece multiples)+1	0 ~ 20	I
4	Speed of bartack at the start of sewing	Speed of bartack at the start of sewing	100 ~ 3000rpm	I
5	Speed of bartack at the end of sewing	Speed of bartack at the end of sewing	100 ~ 3000rpm	I

6	Overlapped sewing speed	Overlapped sewing speed	100 ~ 3000rpm	I
7	Reverse limited feed speed	Reverse limited feed speed,when the manual switch closed	500 ~ 1500rpm	I
8	Soft-start function	0 : No soft-start function 1~99 : Soft start stitches	0~99	I
9	Fixed-length seam sewing speed	Set fixed-length seam sewing speed	200 ~ 3500rpm	I
10	Sewing mode	0 : Free sewing 1 : Simple Sewing	0/1	I
11	The manual switch function of the reverse feed stitching of sewing	0 : Only reverse feed stitching 1 : And needle compensation 2 : Only reverse feed stitching , standby does not work	0/1/2	I
12	Ornamental bartacks	0 : Invalid 1 : Effective	0/1	I
13	Function of stop after bartack at the start of sewing	Function of stop after bartack at the start of sewing 0 : Invalid 1 : Effective	0/1	I
14	Soft-start speed 1	The first stitch speed	100 ~ 3000rpm	I
15	Soft-start speed 2	The second stitch speed	100 ~ 3000rpm	I
16	Soft-start speed 3	The third stitch speed	100 ~ 3000rpm	I
17	Function of soft-down of presser foot	0: Invalid 1: Valid	0/1	I
18	Bartack at the start of sewing compensation 1	Bartack at the start of sewing compensation 1	0 ~ 100	I
19	Bartack at the start of sewing compensation2	Bartack at the start of sewing compensation 2	0 ~ 100	I
20	Up - position function	0: Invalid 1: Valid	0/1	I
21	Standard bartacks,pedal speed choice	0: automatic standard bartacks speed 1: pedal analog speed	0/1	II

22	highest speed of sewing	highest speed of sewing	200 ~ 3500spm	I I
23	Reverse limited feed speed enable	0 : Disable 1 : Enable	0/1	I
24	Aggravating function/ Machine needle emphasis function	Needle wear through cloth when used 0: invalid; 1 ~ 15 strength regulation	0 ~ 15	I I
25	Bartack at the end of sewing compensation 1	Bartack at the end of sewing compensation 1	0 ~ 100	I
26	Bartack at the end of sewing compensation 2	Bartack at the end of sewing compensation 2	0 ~ 100	I
27	Ornamental bartacks pause time	Ornamental bartacks pause time	5 ~ 500ms	I
28	Reverse needle lift function	0 : Disable 1 : Enable	0/1	I
29	Reversal of needle lift angle	Reversal of needle lift angle	0 ~ 90°	I
30	return to factory-set parameter	5: restore the current level factory parameters According to S button, select yes, then press the S key execution	0 ~ 15	I
31	Up dead position angle	Up dead position angle	270 ~ 360	I I
32	Pedal presser foot lift confirm time	Pedal presser foot lift confirm time	10 ~ 300ms	I I
33	dial line / clip line Type selection	Type selection ; 0 : dial line 1 : clip line	-15 ~ 15(0.1)	I I
34	Key switch function selection	0 : Fixed sewing reverse 1 : Supplementary needle	0/1	I
35	Overlapped sewing speed compensation 1	Overlapped sewing speed compensation 1	0 ~ 100	I
36	Overlapped sewing speed compensation 1	Overlapped sewing speed compensation 2	0 ~ 100	I

37	Pedal travel upon start	Pedal position upon start Travel relative to medium pedal	10 ~ 50	II
38	Pedal travel upon acceleration	Pedal position upon start acceleration Travel relative to medium pedal	10 ~ 100	II
39	Pedal travel at highest rotation speed	Pedal position at highest rotating speed Travel relative to medium pedal	10 ~ 150	II
40	Pedal travel upon presser foot lift	Pedal position upon pedal lift Travel relative to medium pedal	-100 ~ -10	II
41	Pedal travel upon presser foot lowering	Pedal travel from presser foot lowering position to neutral position Travel relative to medium pedal	5 ~ 50	II
42	Pedal travel 1 upon thread trimming	Pedal position upon start trimming without presser foot function , Travel relative to medium pedal	-100 ~ -10	II
43	Pedal travel 2 upon tread trimming	Pedal position upon start thread trimming with presser foot function Travel relative to medium pedal	-100 ~ -10	II
44	The bottom line magnification setting	0 : Invalid 5/10/15/20 : Bottom line rate	0/5/10/15/20	I
45	Initial baseline setting	Initial baseline setting	200 ~ 4000	I
46	Ornamental bartack sposition adjustment	Ornamental bartack sposition adjustment	0~120	II
47	Reverse sewing function when trimming	" 0 " mean turn off, "1" mean "open"	0/1	II
48	Surface line detection function setting reservation function	" 0 " mean invalid , "1" mean valid	0/1	II

60	Slow speed	The lowest pedal speed	100 ~ 400rpm	I
61	Cutting speed	Cutting speed	100 ~ 400rpm	I
62	Delay time,when Sewing presser foot down	Delay Sewing time,when presser foot down	0 ~ 800ms	II
63	Presser foot magnet lift holding time	Presser foot magnet lift holding time	1 ~ 60(s)	II
64	Time of presser foot magnet full voltage output	Time of presser full voltage output	0 ~ 800ms	II
65	Presser foot magnet voltage output duty cycle	Presser foot voltage output duty cycle	0 ~ 100	II
66	The time of soft-down of pressure foot	The time of soft-down of pressure foot(time longer,down more slower)	50 ~ 500ms	II
67	Time of reverse feed stitching magnet full voltage output	Time of reverse feed stitching full voltage output	0 ~ 800ms	II
68	Reverse feed stitching magnet duty cycle	Reverse feed stitching magnet duty cycle	0 ~ 100	II
69	Reverse feed stitching magnet holding time	Reverse feed stitching magnet holding time	1 ~ 60(s)	II
70	Enable presser foot lift	0: Disable 1: Enable 2 : Middle lifting foot is not effective 3 : Button control Disable or Enable	0/1	I
73	Parameter save	0: Invalid 1: Valid	0/1	III
75	Safety switch signal mode	0: Normally open 1: Normally closed 2: No protection	0/1/2	I
76	Stop position needle minor adjustment	Stop needle position minor adjustment	90 ~ 110	I
77	Needle bar maximum angle	Needle bar maximum angle	270 ~ 360	I

78	Cutting magnet release angle	Cutting magnet release angle	300 ~ 360	II
79	Down needle positioning position	To adjust down needle position	0 ~ 240	I
81	Needle position adjustment	Needle position adjustment	0 ~ 240°	I
82	Cutting magnet pull angle	Cutting magnet pull angle	150 ~ 200	II
83	Power angle of shear line	To set power angle of shear line	200 ~ 300	II
84	Reduce noise	0 ~ 15 Reduce noise	0 ~ 15	II
87	Loose magnet pull angle	Loose magnet pull angle	200 ~ 360	II
88	Speed adjustment mode	0 : Operation box button 1 : knob	0/1	I
89	Set period of use	0 : Disable ; 1 ~ 1000(Take hours as a unit)	0 ~ 1000	II
90	Line slack holding time	Line slack holding time	1 ~ 60	II
132	Speaker function	Voice selection: 0-no voice, 1-chinese, 2-english, 3-indian, 4-vietnamese,	0 ~ 4	II
133	volume increase and decrease	volume increase and decrease	0 ~ 31	II

3.1Teaching function :

In the long slot (a, four, program seam) mode, long press "F" one second, you can enter the teaching interface, this interface has buttons: F key, two groups of add-subtract key, fill needle key. Role is as follows:

Add-subtract key 12: change teaching segments, segment numerical only to accumulate .key is invalid. Note: when the pedal operation, the key is invalid;

Add-subtract key 34: modify teaching pin number, to stop running when the adjust pin number. Fill needle keys: press can manually fill needle, needle change.

F: exit show interface, complete the current segment number teaching.

After the pedal shear line, will directly from the show and save the needle numerical, before returning to the fixed length of stitch pattern.

4 . System Info

Operation panel default mode, press the button at the same time in P made sewing needle trigger select key, enter the system monitoring state through the +-key choose need to look at the project, according to the S button to enter/exit the selected projects such as the need to exit monitoring interface, according to P keys can be.

show frame numbers	Item Name	unit
JJ	Plan number	piece
U1	speed of motor control	rpm
U2	Motor Current	0.01A
U3	Motor Voltage	V
U4	Pedal voltage	0.01V
U5	Mechanical Angle with	limit
U6	Motor initial Angle	limit
U7	Master control program version/ Head type	/
U8	Head type/ Master control program version	/
U9	Dsp no	/
vEr	Operation box version of the program	/
TYPE	Software no	/

5. Standard needle stitch compensation adjustment

starting reinforcing-sewing No.18 No.19	Forward sewing and reverse stitching joint		Reverse stitch number Become less and shorter , To adjust the parameters to a higher value.No.18
			Forward sewing number Become less and shorter , Adjust the parameters to lower values No.18
	Reverse sewing and forward stitching joint		Reverse stitch number Become less and shorter , To adjust the parameters to a higher value.No.19
			Forward sewing number Become less and shorter , Adjust the parameters to lower values No.19
ending reinforcing-sewing No.25 No.26	Forward sewing and reverse stitching joint		Reverse stitch number Become less and shorter , To adjust the parameters to a higher value.No.25
			Forward sewing number Become less and shorter , Adjust the parameters to lower values No.25
	Reverse sewing and forward stitching joint		Reverse stitch number Become less and shorter , To adjust the parameters to a higher value.No.26
			Forward sewing number Become less and shorter , Adjust the parameters to lower values No.26
continuous reinforcing-sewing No.35 No.36	Forward sewing and reverse stitching joint		Reverse stitch number Become less and shorter , To adjust the parameters to a higher value.No.35
			Forward sewing number Become less and shorter , Adjust the parameters to lower values No.35
	Reverse sewing and forward stitching joint		Reverse stitch number Become less and shorter , To adjust the parameters to a higher value.No.36
			Forward sewing number Become less and shorter , Adjust the parameters to lower values No.36

6.Error codes

Error Code	Contents	Possible reasons	Checking and treatment
E011 E012 E013 E014	Motor signal error	Motor position sensor signal failure	If electric engine plug is well contacted; if electric engine signal detecting device has been broken; if sewing machine handwheel correctly installed.
E021 E022 E023	Motor overload	motor stall motor overload	If electric engine plug is well contacted; if machine head or thread-cutting mechanism has been blocked completely;f materials are too thick; Electrical signal detection signal whether the normal.
E101	Hardware drivers fault	Current detection abnormal Driving hardware error	Current detection loop system is working properly;Whether the damage to the device driver.
E111 E112	Voltage too high	High input voltage Brake circuit fault Voltage detection error	System into line voltage is too high; Braking resistance are working properly; System voltage detection circuit are working properly.
E121 E122	Voltage too low	Actual low voltage Voltage detection is wrong	If the voltage on the inlet wire is too low Whether the system voltage detection circuit the normal work.
E131	Current circuit fault	Current detection abnormal	Current detection loop system is working properly.
E133	Oz circuit fault	Oz circuit fault	Oz circuit system is working properly.
E151	Magnet circuit error	Over current magnet circuit	If machine head magnet suffers short circuit Electromagnet circuit is working properly.
E201	over current	Current detection error	Current detection loop system is working properly Electrical signal is normal.
E211 E212	Abnormal motor operation	Current or voltage detection error	If electric engine plug is well contacted; If electric engine signal is matched.

E301	Communication error	Sci circuit error	if operation box plug is well contacted; if operation box components are damaged.
E302	Operation inner failure	Sci circuit error	To check whether the operating box is damaged..
E402	Pedal ID fault	Pedal verification fault	Pedal connection is loosen.
E403	Pedal zero position fault	The pedal zero position over range	The pedal is damaged or it is not under stop state when correction.
E501	Safety switch fault	Safety switch effective	Put down the head or check turned up switch.
P.oFF	Power off Display	Power off	Wait for power supply to resume.
EvaL	Trial time expires	Trial time expires	Contact distributor