

# Power Max DD motor

## USER MANUAL

### 1. SAFETY INSTRUCTIONS:

- 1.1. Instruction and trial-run must be done by professional technician;
- 1.2. Pls ensure the grounded wire working well;
- 1.3. Do not step on foot pedal when motor turns on;;
- 1.4. Control box and motor cover are forbidden to open when power turn-on;;
- 1.5. Pls Ensure power off during below operations:
  - a) When threading, changing needle and inner stitching thread;
  - b) When installing machine and maintaining;
  - c) When turning over the machine

### 2. OPERATION PANEL INSTRUCTIONS:

#### 2.1. Each Key purpose:

KEY	SEWING MODEL	FUNCTION MODEL
P	Needle position choice	Confirm the operation, it will enter into setting model with other keys;
S	LED light on-off	Confirm the parameter setting.
+	Sewing speed-up	Key to add parameter and index
-	Sewing slow-done	Key to reduce parameter and index

#### 2.2. ADJUSTING TECHNICIAN MODEL PARAMETER:

- a) Press key "P", meanwhile press key "+" once, the screen will show P-00;
- b) Press key "+" or "-" till the parameter model no. required;
- c) Press key "P" into parameter, the screen will show the parameter;
- d) Press key "or" "-" till the required parameter;
- e) Press key "S" to save parameter and quit.

#### 2.3. RESTORE FACTORY SETTING;

Press key "P", meanwhile press key "+", the screen will show P-00; Then press key "S" 3 seconds, it will resource factory settings;

### 3. TECHNICIAN MODEL PARAMETER DIAGRAM

PARAMETER CODE	DESCRIPTION	ADJUSTING SCOPE	FACTOYR SETTING	REMARK

P-02	Direction of rotation	0: Reverse turn 1: Clockwise turn	1	
P-03	The needle Angle	6-18	12	
P-04	Sewing-begin speed	200-800rpm	250	
P-05	Speed-up and slow-down	2000-4000rpm	3500	
P-06	Setting the seam	0-999needle	0	
P-10	Automatic clearance run	0: normal sewing 1: automatic clearance run	0	Turn off the power, running stop
P-14	Maximum current limit	50-1000	280	
P-15	The location of topper needle	0: No detecting 1: Detecting needle	1	

### 4. FAULT SOLUTION

ERROR CODE	CONTENT	REASON
Er01	No found needle position	The gap between handle wheel and motor cover is too big; Nine plug connects not well; Motor hall broken, it should change new motor; The magnet in handle wheel is lost;
Er02	The speed regulator is not found when power-on;	Speed regulator plug not plug-in or badly connected The speed regulator wire is broken
Er03	Motor hall or phase error	Nine plug not connected well; Motor not installed well; hall broken;
Er04	Lock-rotor protection;	Motor overloaded Motor is not well connected
Er05	Hardware over-current protection	Motor overloaded Signal wire badly connected or broken;
Er07	Serial port communication timeout error	The wire between display and main board is not good or main board broken;

## 使用说明书

### 1. 安全说明:

- 1.1. 本产品需专业人员安装、调试;
- 1.2. 必须保证系统可靠接地;
- 1.3. 电机接通电源时请不要把脚放在脚踏板上;
- 1.4. 严禁在通电时打开控制箱和电机盖;
- 1.5. 在进行以下操作时,请务必关闭电源:
  - a) 穿线、换针和更换底线时;
  - b) 安装、维修机器时;
  - c) 翻抬缝纫机时;

### 2. 操作面板使用说明:

#### 2.1. 各按键的用途:

按键	车缝模式	功能模式
P	停针位选择键	确定操作、与其它键组合进入参数设定模式
S	LED车灯开关	主要起确认参数设置的作用
+	提高车缝速度	参数和索引值增加键
-	降低车缝速度	参数和索引值减小键

#### 2.2. 技术员模式参数的调整方法:

- a) 按住“P”键不放的同时按一下“+”键,屏幕显示为 P-00;
- b) 按“+”或“-”键,调至需调整参数号;
- c) 按“P”键进入参数,屏幕显示为参数值;
- d) 按“+”或“-”键,调至需要的参数值;
- e) 按“S”键保存参数并退出。

#### 2.3. 恢复出厂设置:

按住“P”键不放的同时按一下“+”键,屏幕显示为 P-00,再按住“S”键 3 秒后放开。

### 3. 技术员模式参数表

参数号	注释	参数范围	出厂值	备注
P-02	电机方向	0: 逆时针; 1: 顺时针	1	
P-03	下停角度	6-18	12	
P-04	起缝速度	200-800 转	250	
P-05	加速快慢	2000-4000 转	3500	
P-06	定针缝	0-999 针	0	
P-10	自动跑合	0: 普通缝纫; 1: 自动跑合;	0	关掉电源 停止跑合
P-14	最大电流限制	50-1000	280	
P-15	是否检测上针位	0: 不检测; 1: 检测;	1	

### 4. 故障处理:

错误码	错误内容	产生错误的原因
Er01	找不到停针位	手轮与电机壳间隙太大; 九针插头接触不良; 电机霍尔坏,需更换电机; 手轮上的磁铁掉落;
Er02	开机没有检测到调速器	调速器插头没有插或接触不良; 调速器线断了;
Er03	电机霍尔或相位线错误	九针插头接触不良; 电机没有安装好; 霍尔坏;
Er04	堵转保护	电机过载; 电机与电控相连接的四心线接触不好;
Er05	硬件过流保护	电机过载; 信号线接触不好或断了;
Er07	串口通信超时错误	显示屏与主板的连接线不良或主板坏;