

QD9623系列绷缝500简易说明书2017.12版

△安全指示

NO. 10403176

在安装或使用本产品前，使用者必须详细阅读本操作手册。

本产品须由受过正确训练的人员来安装或操作。安装作业时必须关闭所有电源，切记不可带电操作。

3) 所有标有△符号的指示，必须特别注意并按照说明书上的执行，以免造成不必要的损害。

4) 为安全起见，禁止以延长线作电源座供应二项以上的电器产品使用。

5) 在连接电源线时，必须确定工作电压低于 AC 250V，且符合本产品标识中规定的额定电压值。

*注意：电控箱电源规格如为 AC220V 时，请勿插接至 AC380V 的电源插座上，否则将出现异常且电机无法动作。此时请立即关闭电源开关，重新检查电源。持续供应 380V 超过五分钟以上，将可能烧损电控箱内器件，而危及人身安全。

6) 请不要在日光直接照射的场所、室外及室温 45℃ 以上或 0℃ 以下的场所操作。

7) 请不要在暖气（电热器）旁、有露水的场所及在相对湿度 10% 以下或 90% 以上的场所操作。

8) 请不要在灰尘多的场所、具有腐蚀性物质的场所及有挥发性气体的场所操作。

9) 请注意所有电源线、信号线、接地线等接线时不要受压或过度扭曲，以确保使用安全。

10) 电源线的接地端须以适当大小的导线和接头连接到生产工厂的系统地线，此连接必须被永久固定。

11) 所有可转动的部分，必须以所提供的零件加以防范露出。

12) 在安装完成第一次开电后，先关闭切线功能以低速操作缝纫机并检查转动方向是否正确、运转是否稳定。

13) 在进行以下操作前，请先关闭所有电源：

1. 在控制箱与马达上插拔任何连接插头时。

2. 穿针线时。

3. 翻抬缝纫机机头时。

4. 修理或做任何机械上的调整时。

5. 机器闲置不用时。

14) 修理或高层次的保养工作，仅能由受过训练的机电技师来执行。

所有维修用的零件，须由本公司提供认可，方可使用。

15) 使用本产品请远离高频电磁波和电波发射器等，以免所产生的电磁波干扰伺服驱动装置而发生误动作。

16) 请不要以不适当物体来敲击或撞击本产品及各装置。

保修期限

本产品保修期限为购买日期起一年内或出厂月份起两年内。

保修内容

本产品在正常情况使用且无人为操作失误的前提下，于保修期间无偿为客户维修使能正常操作。但以下情况于保修期间将收取维修费用：

1. 不当使用包括误接高压电源、将产品移做其它用途、自行拆卸、维修、更改、或不依规格范围使用、进水进油及插入异物于本产品。

2. 火灾、地震、闪电、风灾、水灾、盐蚀、潮湿、异常电压及其它天灾或不当场所造成的损害。

3. 客户购买后摔落本产品，或客户自行运输（或托付运输公司）造成的损害。

* 本产品在生产及测试上皆尽最大努力和严格控制使其达到高品质及高稳定的标准，但外部的电磁或静电干扰或不稳定的供电电源，仍可能对本产品造成影响或损害，因此操作场所的接地系统一定要确实做好，并建议用户安装故障安全防护装置（如漏电保护器）。

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1. 按键说明

功能参数编辑键		进入或退出功能参数的编辑。
参数查看保存键		对所选参数内容进行查看和保存：选择好参数号后按此键可以进行查看和修改操作，修改参数值后按此键则退出并保存参数。
上调节键		1、参数选择区内参数项递增键 2、参数内容区内设定数值递增键
下调节键		1、参数选择区内参数项递减键 2、参数内容区内设定数值递减键
慢速起缝选择键		在开机界面，短按此键为慢速起缝选择键；对应小数点亮起为打开，熄灭为关闭；

2. 操作说明

2.1 恢复出厂设置

1. 在关机状态下，同时按住上键和下键开机，再按 S 键确认即可恢复；

2.2 进入用户模式及修改保存

1. 一般模式下按 P 键进入【用户参数区】。

2. 按 S 键进入参数内容值；通过“上”、“下”键更改内容值，按 S 键保存。

2.3 进入技术员模式及修改保存

1. 在关机状态，按住 P 键开机进入【技术员参数区】。

2. 按 S 键进入参数内容值；通过“上”、“下”键更改内容值，按 S 键保存。

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3. 用户参数表&技术员参数表

3.1 用户参数表

参数项	中文说明	范围	初始值	内容值名称说明与备注
P01	最高转速	200-6000	5000	车缝时的最高转速设定（显示的数*10=实际速度）
P02	停针位选择	0-2	0	停针位设定（0：上停针；1：下停针；2：无定位）
P03	慢速起缝开关	0-1	0	慢速起缝开关设定（0：关1，开）
P04	慢速起缝速度	200-1500	400	慢速起缝时的速度设定（显示的数*10=实际速度）
P05	慢速起缝针数	1-15	1	慢速起缝时的针数设定，每一单位代表半针
P06	最低转速	200-500	200	车缝时的最低转速设定（显示的数*10=实际速度）

3.2 技术员参数表

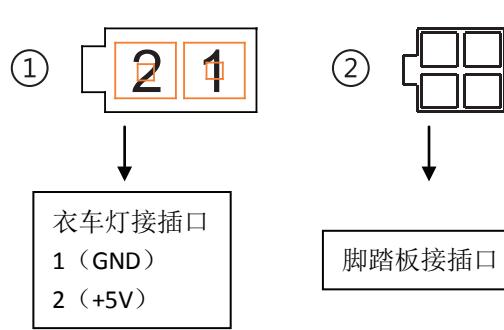
参数项	中文说明	范围	初始值	内容值名称说明与备注
P07	上定位调整	0-24	0	
P08	下定位调整	0-24	12	
P09	开机自动找上定位	0-1	1	0：开机不找上定位； 1：开机找上定位
P11	加速曲线调整 (%)	1-100	32	控速器的加速爬升斜率设定
P15	补针方式	0-3	0	0：半针； 1：一针； 2：连续补半针； 3：连续补一针；
P16	机头灯亮度	0-4	4	0：熄灭； 1→4 亮度等级，数字越大亮度越大
P21	马达运转方向	0-1	0	马达运转方向设定（0：顺时针；1：逆时针）
P22	自动跑合速度	200-6000	3500	跑合速度的设置（显示的数*10=实际速度）
P23	自动跑合跑时间	1-250	20	测试中，设置跑时间
P24	自动跑合停时间	1-250	20	测试中，设置停时间
P25	A 项测试	0-1	0	A 项测试设定（速度持续运行）
P26	B 项测试	0-1	0	B 项测试设定（执行定位循环运行）
P29	吸气功能选择	0-2	1	0：关闭； 1：吸气功能； 2：半反踏气动拍压脚功能
P36	机型	1-10		

4. 错误代码表

错误码	内容	对策
E01	超电压	关闭系统电源，检测供应电源电压是否正确。（或是否超过使用规定的额定电压）。若正确，请更换控制箱并通知售后服务。
E02	低电压	关闭系统电源，检测供应电源电压是否正确。（或是否低于使用规定的额定电压）。若正确，请更换控制箱并通知售后服务。
E05	控速器接触异常	关闭系统电源，检查控速器接头是否松动或脱落，将其恢复正常后重启系统。若仍不能正常工作，请更换控速器并通知售后服务。

5. 端口示意图

5.1 各个端口说明



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⚠ Safety Instruction

- 1) Users are required to read the operation manual completely and carefully before installation or operation.
 - 2) The product should be installed and pre-operated by well trained persons
 - 3) All the instruction marked with sign ⚠, must be observed or executed; otherwise, bodily injuries might occur.
 - 4) For perfect operation and safety, it is prohibited that using extension cable with multi-outlet for power connection
 - 5) When connecting power supply cords to power sources, it is necessary to make sure that the power voltage is lower than 250V AC and matches the rated voltage indicated on the motor's name plate.
 - 6) Attention: If the Control Box is AC 220V system, please don't connect the Control Box to AC 380V power outlet. Otherwise, the error will occur and motor will not work. If that happens, please turn off the power immediately and check the power voltage. Continue supply 380V power over 5 minutes might damage the fuse F2, burst the electrolytic capacitors and the power module U14 of the main board and even might endanger the person safety.
 - 7) Please don't operate in direct sun light, outdoors area and where the room temperature is over 45°C or below 0°C.
 - 8) Please avoid operating near the heater at dew area or at the humidity below 10% or above 95%.
 - 9) Please don't operate in area with heavy dust, corrosive substance or volatile gas.
 - 10) Avoid power cord being applied by heavy objects or excessive force, or over bend.
 - 11) The earth wire of power cord must be connected to the system ground of the production plant by proper size of conductors and terminals. This connection should be fixed permanently.
 - 12) All the moving portions must be prevented be exposed by the parts provided.
 - 13) Turning on the machine in the first time, operate the sewing machine at low speed and check the correct rotation direction.
 - 14) Turn off the power before the following operation:
 1. Connecting or disconnecting any connectors on the control box or motor.
 2. Threading needle.
 3. Raising the machine arm.
 4. Repairing or doing any mechanical adjustment.
 5. Machine is out of work.
 - 15) Repairing and high level maintenance work should only be done by electronic technicians with appropriate training.
 - 16) All the spare parts for repairing work must be provided or approved by the manufacturer.
 - 17) Don't use any objects to hit or ram the product.
- Guarantee Time**
Warranty period of this product is 1 year dated from purchasing, or within 2 years from ex-factory date.
- Warranty Detail**
Any trouble found within warranty period under normal operation, it will be repaired free of charge. However, maintenance cost will be charged in the following cases even if within warranty period:
1. Inappropriate use, including: wrong connecting high voltage, wrong application, disassemble, repair, modification by incompetent personnel, or operation without the precaution, or operation out of its specification range, or inserting other objects or liquids into the product.
 2. Damage by fire, Earthquake, lightning, wind, flood, salt corrosive, moisture, abnormal power voltage and any other damage cause by the natural disaster or by the inappropriate environments.
 3. Dropping after purchasing or damage in transportation by customer himself or by customer's shipping agency.
- * Note: We make our best effort to test and manufacture the product for assuring the quality. However, it is possible that this all a failsafe device. (Such as residual current breaker).

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1. Keys Function

Entering the Parameter Mode	(P)	Press key P to enter into user parameter setting mode.
Setting Parameter Check and Save	(S)	After setting the function code, press this key to check the preset parameter and parameter accordingly; When the parameter is fixed, press key S to save the setting and quit.
On the Adjustment Key	(△)	1. Choose the region parameter items of incrementing key 2. Parameter setting value incrementing key
Under the Adjustment Key	(▽)	1. Choose the region parameter items of diminishing key 2. Parameter setting value decrementing key
Slow Play Seam Selection Shortcut	(←)	Slow play seam selection shortcuts.

2. Operating Instructions

2.1 Reset the System

1. Under the shutdown state, hold on the "up" key and "down" key to boot, then double-click the S key to confirm it, shutdown restart.

2.2 Enter the User Argument and Save Changes

1. Under normal mode, press key P enter to 【Use Parameter Area】
2. Press S key enter to parameter content value; Changed the value through "up" "down" key

2.3 Enter Technician Mode and Save Changes

1. In the shutdown state, hold on key P to turn on machine and enter 【Technical Parameter Area】
2. Press S key enter to parameter content value, changed the value through "up" "down" key, and then press S key to save the value.

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3. User Parameter & Technician Parameter

3.1 User Parameter

Parameters	Parameter Function	Range	Default	Description
P01	Maximum Speed	200-6000	5000	Set the max sewing speed (show the actual number *10= speed).
P02	Needle Stop Position Selection	0-2	0	Set the needle stop position (0: Needle up 1: Needle down 2: OFF).
P03	Soft Start Switch	0-1	0	Soft start switch setting (0: OFF 1: ON).
P04	Soft Start Sewing Speed	200-1500	400	Soft start sewing speed setting (Show the actual number * 10= speed).
P05	Stitches Number of Soft Start	1-15	1	Set the stitches number of soft start, each unit is half stitch.
P06	Minimum Speed	200-500	200	Set the minimum speed (Show the actual number * 10= speed).

3.2 Technician Parameter

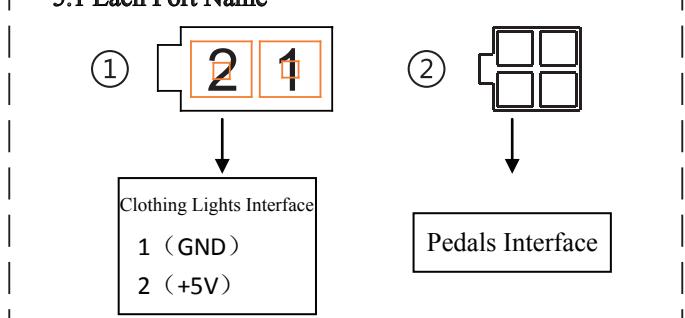
Parameters	Parameter Function	Range	Default	Description
P07	Up Position Adjustment	0-24	0	
P08	Down Position Adjustment	0-24	12	
P09	Needle Goes Up Automatically as Power Turned On	0-1	1	0: No Function 1: Power turned on, needle goes up position automatically
P11	Speed Curve Adjustment (%)	1-100	32	The larger the value, the faster to increase speed
P15	Stitch Correction Mode	0-3	0	0: Half stitch 1: One stitch 2: Continuous correct half stitch Continuous correct stitch and quickly stop machine
P16	Machine Head Lamp Brightness	0-4	4	0: OFF 1-4 the brightness grade, the more value the more brightness.
P21	Motor Rotate Direction	0-1	0	Motor rotate direction setting (0: clockwise 1: counter-clockwise)
P22	Auto Running Speed	200-6000	3500	Auto running speed setting (show the actual number * 10= speed)
P23	Auto Running Time	1-250	20	Set the auto running time in testing
P24	Auto Running Stop Time	1-250	20	Set the auto running stop time in testing
P25	Item A Test	0-1	0	Item A test setting (continue running with constant speed)
P26	Item B Test	0-1	0	Item B test setting (carry out the set loop running)
P29	Inhale Feature Selection	0-2	1	0: OFF; 1: Inhale feature; 2: Foot Lifting when half-heeling the pedal
P36	Type	1-10		

4. Error Code List

Error Code	Problem description	Measure
E01	Over-voltage	Turn off the machine, check the power supply voltage.(Or whether exceed the rated voltage of use). If there are still errors, please replace the control box and call for customer service..
E02	Low-voltage	Turn off the machine, check the power supply voltage.(Or whether under the rated voltage of use). If there are still errors, please replace the control box and call for customer service.
E05	Pedal connection error	Turn off the machine, please check if the pedal in bad connection or is too loose. To get it right and turn on. If there are still errors, please replace the control box and call for customer service.

5. Schematic Diagram of Port

5.1 Each Port Name



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