

QD3606 系列控制系统说明书 V1.2.07

No. 10404263

⚠安全指示

- 1) 在安装或使用本产品前，使用者必须详细阅读本操作手册。
- 2) 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，必须确定工作电压符合本产品标识中规定的额定电压值。
- 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) 在安装完成第一次通电后，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：

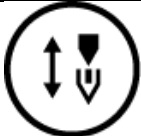
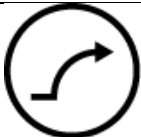
- 1. 不当使用包括误接高压电源、将产品移做其它用途、自行拆卸、维修、更改、或不依规格范围使用、进水进油及插入异物于本产品。
- 2. 火灾、地震、闪电、风灾、水灾、盐蚀、潮湿、异常电压及其它天灾或不当场所造成的损害。
- 3. 客户购买后摔落本产品，或客户自行运输（或托付运输公司）造成的损害。

*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应电源，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）。

1 按键显示及操作说明

1.1 按键说明

名称	按键	注明
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功能键		若点击，进入或退出用户参数设定界面。
确认键		对所选参数号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。
上键		若点击，增加参数值/加速。 若长按，连续增加参数值/连续加速。
下键		若点击，减少参数值/减速。 若长按，连续减少参数值/连续减速。
切线键		若点击，设定使用或取消切线功能。 若长按，快捷进入 P41 项计数器参数值界面。
停针位键		若点击，切换缝制后机针的停止位置（上停针位/下停针位）。
慢速起缝键		若点击，设定使用或取消慢速起缝功能。

1.2 辅助功能

1.2.1 高级参数界面

长按  开机，进入高级参数项界面。

1.2.2 恢复出厂设置

长按  和  开机，进入 P44 项参数项界面，再按  跳转至主界面时表示完成恢复出厂设置。

1.2.3 整机厂参数值保存功能

在参数值界面，长按  3 秒可保存当前参数为整机出厂默认值，保存成功显示“SAVE”。

2 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（rpm）	100-5000	3700	

参数项	中文说明	范围	初始值	内容值名称说明与备注
P02	加速曲线调整 (%)	10-100	80	控速器爬升斜率设定。 斜率值愈大，速度愈陡；斜率值愈小，速度愈慢。
P03	停针位选择	UP/DN	DN	UP：上停针；DN：下停针
P07	慢速起缝速度 (rpm)	200-1500	400	
P08	慢速起缝针数	1-9	2	
P14	慢速起缝功能设定	ON/OFF	OFF	
P15	补针方式	0-4	2	0：半针；1：一针；2：连续补半针；3：连续补一针；4：连续补针，快速停车
P21	踏板加速位置	30-1000	520	
P22	踏板回中位置	30-1000	420	
P24	踏板切线位置	30-1000	130	
P27-N06	自动件选择	0-50	1	0：P41 项切线计数器不自动计数 1-50：计数器切线次数
P27-N12	开机显示计数器界面选择	0-1	0	0：关闭；1：开启
P27-N13	切线计数器模式选择	0-1	0	0：加数缝制计数器；1：减数缝制计数器
P29	切线停车力度	1-45	32	
P38	自动切线功能设定	ON/OFF	ON	
P41	切线计数器显示	0-9999	0	车缝完成件数显示；长按减号键可计数清零。
P42-N01	电控版本号			
P42-N02	选针盒版本号			
P42-N03	转速			
P42-N04	脚踏板 AD 值			
P42-N05	机械角度（上定位）			
P42-N06	机械角度（下定位）			
P42-N07	母线电压 AD 值			
P43	马达转动方向设定	CCW/CW	CCW	CW：顺时针方向；CCW：逆时针方向
P44	中途停车时刹车力度	1-45	30	
P46	切线后，反转提针功能选择	ON/OFF	OFF	
P47	切线后，反转提针角度的调整	50-200	160	切完线后，由上针位算起，以反向运转作提针的角度调整。
P48	最低速度（定位速度）(rpm)	100-500	210	
P49	切线速度 (rpm)	100-500	300	
P54	切线动作时间 (ms)	10-990	200	
P56	开电后自动找上定位	0-2	0	0：始终不找上定位；1：始终找上定位；2：若电机已经处于上定位时不再找上定位
P58	上定位调整	0-2399	1950	上定位调整，数值减少时会提前停针，数值

参数项	中文说明	范围	初始值	内容值名称说明与备注
				增加时会延迟停针
P59	下定位调整	0-2399	750	下定位调整，数值减少时会提前停针，数值增加时会延迟停针
P60	测试速度（rpm）	100-4000	3500	设置测试速度
P61	A 项测试	ON/OFF	OFF	持续运行测试模式
P62	B 项测试	ON/OFF	OFF	全功能启停测试模式
P63	C 项测试	ON/OFF	OFF	无定位、无功能启停测试模式
P64	测试时测试运行时间	1-250	30	
P65	测试时测试停止时间	1-250	10	
P66	机头保护开关	0-1	1	0：不检测；1：检测零信号
P70	机型选择	1-45		
P72	上定位快捷调整	0-2399		调整上停针位，显示的数值会随手轮位置变化而变化，按“S”键可保存当前位置（数值）为上停针位。
P73	下定位快捷调整	0-2399		调整下停针位，显示的数值会随手轮位置变化而变化，按“S”键可保存当前位置（数值）为下停针位。
P80	切线进刀角度	5-359	18	
P82	切线退刀角度	5-359	172	
P83	切线后停车力度	10-100	20	
P86	上下定位距离	100-1400	1200	上下定位距离角度（每 4 个数值为 1 度）。
P88	中途停车刹车距离	10-100	40	
P89	交流过压值设定	500-1023	880	
P92	电机电角度校正		160	读取编码器起始角度，出厂已设置，请勿随意更改（参数值不可手动更改，随意更改会导致控制箱、电机出现异常或损坏）。
P110	切线回程时间（ms）	60-990	60	确保切线机构回到原位。
P119	电磁铁过流保护报警选择	0-1	1	0：不报警，关闭输出；1：报警，并停机

注：参数初始值仅供参考，实际参数值以实物为准。

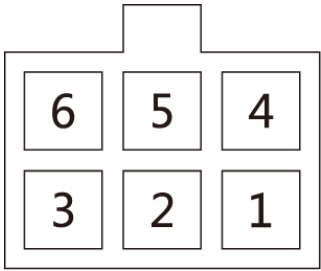
3 错误代码表

错误码	内容	对策
E01	电压高	1、电网电压是否高于 AC260V。 2、如果是自行发电供电，请降低发电机功率。 3、若仍不能正常工作，请更换控制箱并通知售后服务。
E02	电压低	1、是否插入低电压。 2、恢复出厂设置。 3、若仍不能正常工作，请更换控制箱并通知售后服务。

E03	主 CPU 与面板 CPU 通信异常	1、关闭系统电源，检测显示屏的连线是否松动或脱落，将其恢复正常后重启系统。 2、关闭系统电源，拆下电控箱只插电源线通电，是否报警 E03，如还是报警 E03，更换控制箱并通知售后服务。
E05	控速器信号异常	1、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。 2、若仍不能正常工作，请更换控制箱或控速器并通知售后服务。
E07	主轴电机堵转	1、关闭电源，检查手轮是否可以顺畅转动（手转手轮），如果无法转动请排查机械。 2、关闭电源，检查电机电源接口是否松动，插好后重启。 3、检查上停杆位是否正确，如果不正确请调整上定位位置。 4、若仍不能正常工作，请更换控制箱或主轴电机并通知售后服务。
E10	电磁铁过流保护	1、拔除电磁铁接口，如报警 E10，更换控制箱并通知售后服务。 2、如果拔除电磁铁接口后不再报警，请插回接口。 1) 前踏踏板让缝纫机进行夹线和加固缝，如果报警，请关闭前加固和后加固，重启电控，再进行前踏，如果报警，请关闭夹线功能重启电控，再次前踏，如果不报警，请更换夹线器。 2) 前踏踏板让缝纫机进行夹线和加固缝，如果报警，请关闭前加固和后加固，重启电控，再进行前踏，如果不报警，请关闭夹线功能重启电控，并打开前加固缝功能，再次前踏，如果报警，请更换倒缝电磁铁。 3) 前踏踏板让缝纫机进行夹线和加固缝，如果不报警，请半反踏进行抬压脚，如果报警请更换压脚电磁铁。 4) 前踏踏板让缝纫机进行夹线和加固缝，半反踏抬压脚，如果不报警，请全反踏剪线，如果报警请更换剪线电磁铁。
E09 E11	主轴电机编码器定位信号异常	1、关闭系统电源，检查主轴电机编码器接口是否松动或脱落，将其恢复正常后重启系统。 2、检查电机零点校正设置是否正确；重新设置电机零点校正，编码器码盘是否有油，如果有请清理干净。 3、若仍不能正常工作，请更换控制箱或主轴电机并通知售后服务。
E14	主轴电机编码器信号异常	1、关闭系统电源，检查主轴电机编码器接口是否松动或脱落，将其恢复正常后重启系统。 2、检查光栅安装是否正确（光栅螺丝有没有固紧，光栅是不是在编码器头居中位置）。 3、检查光栅码盘是不是有油，如果有，请清理干净，复原后重启系统。 4、若仍不能正常工作，请更换控制箱或主轴电机并通知售后服务。
E15	主轴电机驱动过流	1、请检查电机电源线有没有接触不良。 2、请检查电机电源线有没有被压破。 3、请更换控制箱或主轴电机并通知售后服务。

E17	机头翻倒	1、关闭系统电源，检查机头是否翻倒。 2、检查机头保护开关检测设置是否正确。 3、若仍不能正常工作，请更换控制箱或面板并通知售后服务。
E20	主轴电机启动失败	1、关闭系统电源，检查主轴电机电源线接口、编码器接口是否松动或脱落，将其恢复正常后重启系统。 2、检查电机零点校正设置是否正确；重新设置电机零点校正。 3、若仍不能正常工作，请更换控制箱或主轴电机并通知售后服务。

4 端口示意图



- 1. 补针按键：1（信号）、4（DGND）
- 2. 剪线电磁铁：2、5（+32V）
- 3. LED灯：3（DGND）、6（+5V）

QD3606 Series Control System Instruction Manual V1.2.07

No. 10404263



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. All power supplies must be turned off during the installation work, remember not to operate with power on.
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 the power cord, it must be determined that the operating voltage conforms to the rated voltage value specified in the product identification.
6. Don't operate in direct sun light, outdoors area and where the room temperature is over 45 °C or below 0 °C.
7. Please avoid operating near the heater at dew area or at the humidity below 10% or above 90%.
8. Don't operate in area with heavy dust, corrosive substance or volatile gas.
9. Avoid power cord being applied by heavy objects or excessive force, or over bend.
10. The earth wire of power cord must be connected to the system ground of the production plant by proper size of conductions and terminals. This connection should be fixed permanently.
11. All the moving portions must be prevented to be exposed by the parts provided.
12. Turing on the machine in the first time, operate the sewing machine at low speed and check the correct rotation direction.
13. 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 head.
 4. Repairing or doing any mechanical adjustment.
 5. Machines idling.
14. Repairs and high level maintenance work should only be carried out by electronic technicians with appropriate training.
15. All the spare parts for repair must be provided or approved by the manufacturer.
16. Don't use any objects or force 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, Earth quake, lighting, wind, flood, salt corrosive, moisture, abnormal

power voltage and any other damage cause by the natural disaster or by the inappropriate environments.

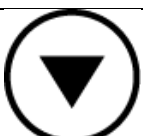
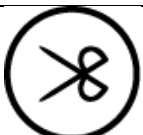
3. Dropping after purchasing or damage in transportation by customer himself or by customer's shipping agency

* We make our best effort to test and manufacture the product for assuring the quality.

However, it is possible that this product can be damaged due to external magnetic interference and electronic static or noise or unstable power source more than expected; therefore the grounding system of operate area must guarantee the good earth and it's also recommended to install a failsafe device (Such as residual current breaker).

1 Key displays and operating instructions

1.1 Key description

Name	key	Indicate
Function key		If press, enter or exit the user parameter setting interface.
Enter key		For the content of the selected parameters check and save: after select parameter press this key to check and modify operation, after modified parameter value press this key to exit and save the parameter.
Parameter increasing		If press, the parameter / speed will be increased. If long-press, the parameter / speed will be increased continuously.
Parameter decreasing		If press, the parameter will be decreased. If long-press, the parameter / speed will be decreased continuously.
Thread trimming		If press, set used or cancelled thread trimming function. If long-press, switch P41 counter parameter value interface quickly.
Stopping position selection of the needle		If press, the stopping position of needle after sewing is switched (upper position / lower position).
Soft start		If press, set used or cancelled soft start function.

1.2 Auxiliary function

1.2.1 Advanced parameter interface

Long-press  to turn on the power and enter the advanced parameter interface.

1.2.2 Restore factory settings

Long-press  and  to enter the P44 interface, then press  to switch to the

main interface indicates that the factory settings have been restored successfully.

1.2.3 Initial parameter values saving function

On the parameter value interface, long press  for 3 seconds to save the current parameter to the

factory default value, “SAVE” will appear after saving successfully.

2 User parameter

No.	Items	Range	Default	Description
P01	Maximum sewing speed (rpm)	100-5000	3700	
P02	Acceleration curve adjustment (%)	10-100	80	Set the acceleration slope. The greater the slope value, the steeper the speed; the smaller the slope value, the slower the speed.
P03	Stopping position selection of the needle	UP/DN	DN	UP: Upper position DN: Lower position
P07	Soft start speed (rpm)	200-1500	400	
P08	The number of stitches for soft start (stitch)	1-9	2	
P14	Soft start function	ON/OFF	OFF	
P15	Darning stitch mode	0-4	2	0: Half stitch 1: One stitch 2: Continuous half stitch 3: Continuous one stitch 4: With back-tacking when machine sewing or pause
P21	The position of the pedal for accelerating	30-1000	520	
P22	The position of the pedal for the stop	30-1000	420	
P24	The position of the pedal for thread trimming	30-1000	130	
P27-N06	Automatic piece counting function	0-50	1	0: P41 function disabled 1-50: Counting times of thread trimming setting
P27-N12	Power-on display counter interface selection	0-1	0	0: OFF 1: ON
P27-N13	Counting of thread trimming mode selection	0-1	0	0: Incremental piecework mode 1: Diminishing piecework mode

No.	Items	Range	Default	Description
P29	Stopping strength when thread trimming	1-45	32	
P38	Automatic thread trimming function selection	ON/OFF	ON	
P41	Counter of thread trimming display	0-9999	0	Display the quantity of finished sewing piece. Long-press “-” key to clear the count
P42-N01	The control system version number			
P42-N02	The panel version number			
P42-N03	Speed			
P42-N04	The pedal AD			
P42-N05	The mechanical angle (upper position)			
P42-N06	The mechanical angle (lower position)			
P42-N07	Busbar voltage AD			
P43	Direction of motor rotation	CCW/CW	CCW	CW: Clockwise CCW: Counterclockwise
P44	Brake strength during stopover	1-45	30	
P46	After trimming, needle lifting function when main shaft motor rotates in opposite direction	ON/OFF	OFF	
P47	After trimming, needle lifting angle adjustment when main shaft motor rotates in opposite direction	50-200	160	Start from the upper needle position and adjust the angle of the needle lifting in reverse operation after trimming.
P48	The minimum speed (positioning speed) (rpm)	100-500	210	
P49	Thread trimming speed (rpm)	100-500	300	
P54	Thread trimming action time (ms)	10-990	200	
P56	Automatically find the upper position after power-on	0-2	0	0: OFF 1: ON 2: If the motor is already at the upper position, it will not find the upper position.
P58	Upper positioning	0-2399	1950	Upper positioning adjustment, the needle

No.	Items	Range	Default	Description
	adjustment			will advance stop when the value decreased, the needle will delay stop when the value increased.
P59	Lower positioning adjustment	0-2399	750	Lower positioning adjustment, the needle will advance stop when the value decreased, the needle will delay stop when the value increased.
P60	Testing speed (rpm)	100-3700	3500	Set testing speed.
P61	Testing A	ON/OFF	OFF	Continuous running testing.
P62	Testing B	ON/OFF	OFF	Start and stop testing with all functions.
P63	Testing C	ON/OFF	OFF	Start and stop testing without all function.
P64	Test running time	1-250	30	
P65	Test stopping time	1-250	10	
P66	Machine protection switch selection	0-1	1	0: No detection; 1: Detection of zero signal
P70	Model selection	1-45		
P72	Upper positioning quick adjustment	0-2399		Adjust upper needle stop position, the displayed value will change with the position of the handwheel, press "S" key to save the current position (value) as up needle position.
P73	Lower positioning quick adjustment	0-2399		Adjust lower needle stop position, the displayed value will change with the position of the handwheel, press "S" key to save the current position (value) as down needle position.
P80	Trimming engage angle	5-359	18	
P82	Trimming retract angle	5-359	172	
P83	Braking distance after thread trimming	10-100	20	
P86	Upper and lower positioning distance	100-1400	1200	Upper and lower positioning distance angle (1 degree for every 4 values).
P88	The stopping distance during machine pause	10-100	40	
P89	AC overvoltage value setting	500-1023	880	
P92	Electrical angle correction of main shaft motor		160	Reading the initial Angle of encoder, the factory default was set, please do not change the values (parameter value cannot be changed manually, random change it will result the control box and motor abnormal or damaged).

No.	Items	Range	Default	Description
P110	Trimming return time (ms)	60-990	60	Make sure the thread trimming device returns to its original position.
P119	Electromagnet overcurrent protection detection switch	0-1	1	0: No alarm, output off 1: Alarm and shut down

Note: the initial value of parameters is for reference only, and the actual value of parameters is subject to the real object.

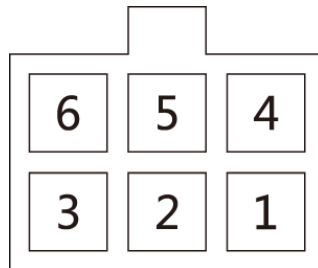
3 Error code list

Error Code	Problem description	Solutions
E01	High voltage	- Whether the grid voltage is higher than AC260V. - If it is self-generated power supply, please reduce the generator power. - If it still does not work normally, please replace the control box and notify the after-sales service.
E02	Low voltage	- Whether to connect to low voltage. - Reset. - If it still does not work normally, please replace the control box and notify the after-sales service.
E03	CPU communication abnormal	- Turn off the system power and check whether the connection of the display screen is loose or disconnected, restart the system after returning it to normal. - Turn off the system power, remove the control box and only plug in the power cord to power on, whether alarm E03, if it still alarms E03, replace the control box and notify the after-sales service.
E05	Pedal signal abnormal	- Check whether the pedal connector is loose or fall off, and restart the system after returning it to normal. - If it still does not work normally, please replace the control box or speed controller and notify the after-sales service.
E07	Main shaft motor locked-rotor	- Turn off the power and check whether the handwheel can be turned smoothly (turn the handwheel by hand), if it cannot be turned, please check the machine; - Turn off the power, check whether the motor power connector is loose, plug it in and restart it; - Check whether the upper needle stop position is correct, if not, please adjust the upper positioning position; - If it still does not work normally, please replace the control box or spindle motor and notify the after-sales service.
E10	Electromagnet overcurrent	- Unplug the solenoid connector, if alarm E10, replace the control box and notify the after-sales service. - If there is no alarm after removing the solenoid connector, please plug it back in 1) Step on the front pedal to let the sewing machine perform

		thread clamping and back-tacking. If alarms, please turn off start back-tacking and end back-tacking, restart the control box, and then step forward. If alarms, please turn off the thread clamping function and restart the electronic control, and step forward again. If there is no alarm, replace the clasper. 2) Step on the front pedal to let the sewing machine perform thread clamping and back-tacking. If it alarms, please turn off start back-tacking and end back-tacking, restart the control box, and then step forward. If there is no alarm, please turn off the thread clamping function and restart the control box, and open start back-tacking function, step forward again, if it alarms, please replace the back-tacking solenoid. 3) Step on the front pedal to let the sewing machine perform thread clamping and back-tacking. If there is no alarm, please step back halfway to raise the presser foot. If it alarms, please replace the presser foot solenoid. 4) Step on the front pedal to let the sewing machine perform thread clamping, back-tacking and half anti-side trample. If there is no alarm, please back step pedal to trim. If it alarms, please replace the thread trimming solenoid.
E09 E11	The positioning signal of main shaft motor encoder is abnormal	1. Turn off the system power, check whether main shaft motor encoder connector is loose or fall off, restore it to normal and restart the system. 2. Check whether the motor zero point correction setting is correct; Reset the motor zero point correction; Whether there is oil on the encoder code plate, please clean it if there is any; 3. If it still does not work normally, please replace the control box or main shaft motor and notify the after-sales service.
E14	Main shaft motor encoder signal is abnormal	1. Turn off the system power, check whether the main shaft motor encoder connector is loose or fall off, restore it to normal and restart the system. 2. Check whether the grating is installed correctly (whether the grating screws are tightened and whether the grating is in the center of the encoder). 3. Check whether there is oil on the encoder code plate, if there is, please clean it up, and restart the system after recovery. 4. If it still does not work normally, please replace the control box or main shaft motor and notify the after-sales service.
E15	Main shaft motor drive overcurrent	1. Please check whether the motor power cord has bad contact. 2. Please check whether the motor power cord is crushed. 3. Please replace the control box or main shaft motor and notify the after-sales service.
E17	Machine overturned	1. Turn off the system power and check if the machine is overturned.

		2. Check whether the machine protection switch detection setting is correct. 3. If it still does not work normally, please replace the control box or panel and notify the after-sales service.
E20	Main shaft motor failed to start	1. Turn off the system power, check whether main shaft motor power cord connector and encoder connector are loose or fall off, restore them to normal and restart the system. 2. Check whether the motor zero point correction setting is correct, reset the motor zero point correction. 3. If it still does not work normally, please replace the control box or main shaft motor and notify the after-sales service.

4 Port diagram



1. Darning stitch key: 1 (signal), 4 (DGND)
2. Thread trimming electromagnet: 2, 5(+32V)
3. LED light: 3 (DGND), 6 (+5V)