

QD8623 简易平缝一体式伺服控制系统

琦星智能科技股份有限公司 2017年09月18日 20:52

QD8623 简易平缝一体式伺服控制系统

QD8623

SIMPLE-FUNCTION INTEGRATED
SERVO CONTROL
SYSTEM FOR LOCKSTITCH

简易平缝一体式
伺服控制系统



功能介绍 Functions



无极调速
Stepless
speed



上下停针
Up-Down needle
positioning



慢速起缝
Soft start



点动补针
Inching
pitch



QD8623



QD587

技术参数 Technical Parameters



功率
POWER

550W



额定电压
RATED
VOLTAGE

AC 220V



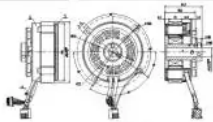
转速范围
SPEED
REGULATION

100-5000RPM



扭矩
TORQUE

1.42Nm
[3700RPM]



安装尺寸图
Installation drawing

琦星电子

QD8623系列说明书

中文版：

△安全指示

- 保修期限

木产品保
加坡山德

本产品在日常情况使用且无人为操作

但以下情

1. 不当使用包括从高压电源、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本产品以及插入异物于本产品。

- 1997

3 操作说明

3.4 恢复出厂位置



3.2 进入用户模式及修改保存



3.3.1 进入技术员模式及修改保存



4. 用户参数&技术员参数

變數名	中文說明
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4.2 技术人员培训内容表					
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参数项	中文名称
log	日志控制参数

199	81.51	100-013		
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1 安装

▲ 加性用于电源供应

1.2 马达的安装



1.3 控制系統振力的調整



1.4 数码显示字体与实际字体对照表

英文字母	A	B	C	D	E	F	G	H	I	J
中文	0	1	2	3	4	5	6	7	8	9

114

1.5 上下停车、横道启停调试

1.5 上下停車、慢速自檢調試



2. 按鍵式

5. 设计材料为普通碳素结构钢

5. 續編代碼表:

是否移性戒指。

6t 端口示意图

6.1.1: 各个端口说明:



3. Safety Instructions

- Users are required to read the operation manual completely and carefully before installation or operation.
- All the instructions marked with sign **A**, must be observed or executed; otherwise, bodily injuries might occur.
- The product should be installed and pre-operated by well trained persons.
- For perfect operation and safety, it is prohibited that using extension cable with multi-outlet for power connection.
- When connecting power supply cords to power sources, it is necessary to make sure that the power voltage is lower than 250 VAC and matches the rated voltage indicated on the motor's name plate.
- Warning:** If the Control Box is AC 220V system, please don't connect the Control Box to AC 380V power outlets. Otherwise, the error will occur and motor will not work. If that happens, please turn off the power immediately and check the power voltage.
- Don't operate in direct sun light, outdoors area and where the room temperature is over 45°C or below 5°C.
- Don't operate in area with heavy dust, corrosive substance or volatile gas.
- Avoid power cord being applied by heavy objects or excessive force, or over bend.
- 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.
- All the moving portions must be prevented to be exposed by the parts provided.
- Turning on the machine in the first time, operate the sewing machine at low speed and check the correct rotation direction.
- Turn off the power before the following operation:
 - Connecting or disconnecting any connectors on the control box or motor.
 - Threading needle.
 - Raising the machine head.
 - Repairing or doing any mechanical adjustment.
 - Machines idling.
- Repair and high level maintenance work should only be carried out by electronic technicians with appropriate training.
- All the spare parts for repair must be provided or approved by the manufacturer.
- Don't use any objects or force to hit or run the product.

Warranty Time

Warranty period of this product is 6 months from date of purchase against manufacturing defect.

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:
- Inappropriate use, including: wrong connecting high voltage, wrong application, disassembly, repair, modification by incompetent personnel, or operation without the permission, or operation out of its specification range, or inserting other objects or liquids into the product.
 - Damage by fire, earth quake, lightning, wind, flood, salt corrosive, moisture, abnormal power voltage and any other damage caused by the natural disaster or by the inappropriate environments.
 - 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 by ensuring 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 faultless device. (Such as residual current breaker)

1. Installation

- 1.1 Power Connection**
- 1.2 Motor Installation**

Installation of Internal Motor



1.3 Adjust The Force Required To Operate The Foot Pedal

For General Application For Footers Device Attached



- Loosen the foot pedal adjustment.
- Loosen the foot pedal adjustment.
- Loosen the foot pedal adjustment.

1.4 Comparison Table of LCD Display Feet and Actual Feet

Actual	0	1	2	3	4	5	6	7	8	9
Display	0	1	2	3	4	5	6	7	8	9

English Alphabet	A	B	C	D	E	F	G	H	I	J
Display	A	B	C	D	E	F	G	H	I	J

Actual	U	V	W	X	Y	Z
Display	U	V	W	X	Y	Z

1.5 Upper and lower stop debugging. Slow start joint debugging



2. Key Functions

Function	Key	Description
Setting Parameter	S	After setting the function code, press this key to check the parameter and then save the parameter successfully.
Check And Save	P	When the parameter is finished, press this key to save the parameter and exit.
Entering the parameter mode	Enter	Press this key to enter the parameter setting mode.
On the adjustment key Select the parameter mode	Enter	Press this key to select the parameter mode.
Under the adjustment key Select the parameter mode	Enter	Press this key to select the parameter mode.

3. Operating Instructions

3.1 Reset the system



3.2 Enter the user agreement and user changes



3.3 Enter technician mode and user changes



4. User Parameter & Technician Parameter

Parameter	Parameter Function	Range	Default	Description
P01	Machine speed	000-000	000	Set the max sewing speed (the actual number is 1000).
P02	Machine stop position	000-000	000	Set the machine stop position (0: machine head).
P03	Soft start setting	000-000	000	Set the soft start setting (0: no soft start).
P04	Soft start setting	000-000	000	Set the soft start setting (0: no soft start).
P05	Soft start setting	000-000	000	Set the soft start setting (0: no soft start).
P06	Soft start setting	000-000	000	Set the soft start setting (0: no soft start).
P07	Soft start setting	000-000	000	Set the soft start setting (0: no soft start).
P08	Soft start setting	000-000	000	Set the soft start setting (0: no soft start).

Parameter	Parameter Function	Range	Default	Description
T01	1. Power on (Machine start)	000-000	000	1. Power on (Machine start)
T02	2. Power on (Machine start)	000-000	000	2. Power on (Machine start)
T03	3. Power on (Machine start)	000-000	000	3. Power on (Machine start)
T04	4. Power on (Machine start)	000-000	000	4. Power on (Machine start)
T05	5. Power on (Machine start)	000-000	000	5. Power on (Machine start)
T06	6. Power on (Machine start)	000-000	000	6. Power on (Machine start)
T07	7. Power on (Machine start)	000-000	000	7. Power on (Machine start)
T08	8. Power on (Machine start)	000-000	000	8. Power on (Machine start)
T09	9. Power on (Machine start)	000-000	000	9. Power on (Machine start)
T10	10. Power on (Machine start)	000-000	000	10. Power on (Machine start)
T11	11. Power on (Machine start)	000-000	000	11. Power on (Machine start)
T12	12. Power on (Machine start)	000-000	000	12. Power on (Machine start)
T13	13. Power on (Machine start)	000-000	000	13. Power on (Machine start)
T14	14. Power on (Machine start)	000-000	000	14. Power on (Machine start)
T15	15. Power on (Machine start)	000-000	000	15. Power on (Machine start)
T16	16. Power on (Machine start)	000-000	000	16. Power on (Machine start)
T17	17. Power on (Machine start)	000-000	000	17. Power on (Machine start)
T18	18. Power on (Machine start)	000-000	000	18. Power on (Machine start)
T19	19. Power on (Machine start)	000-000	000	19. Power on (Machine start)
T20	20. Power on (Machine start)	000-000	000	20. Power on (Machine start)
T21	21. Power on (Machine start)	000-000	000	21. Power on (Machine start)
T22	22. Power on (Machine start)	000-000	000	22. Power on (Machine start)
T23	23. Power on (Machine start)	000-000	000	23. Power on (Machine start)
T24	24. Power on (Machine start)	000-000	000	24. Power on (Machine start)
T25	25. Power on (Machine start)	000-000	000	25. Power on (Machine start)
T26	26. Power on (Machine start)	000-000	000	26. Power on (Machine start)
T27	27. Power on (Machine start)	000-000	000	27. Power on (Machine start)
T28	28. Power on (Machine start)	000-000	000	28. Power on (Machine start)
T29	29. Power on (Machine start)	000-000	000	29. Power on (Machine start)
T30	30. Power on (Machine start)	000-000	000	30. Power on (Machine start)
T31	31. Power on (Machine start)	000-000	000	31. Power on (Machine start)
T32	32. Power on (Machine start)	000-000	000	32. Power on (Machine start)
T33	33. Power on (Machine start)	000-000	000	33. Power on (Machine start)
T34	34. Power on (Machine start)	000-000	000	34. Power on (Machine start)
T35	35. Power on (Machine start)	000-000	000	35. Power on (Machine start)
T36	36. Power on (Machine start)	000-000	000	36. Power on (Machine start)
T37	37. Power on (Machine start)	000-000	000	37. Power on (Machine start)
T38	38. Power on (Machine start)	000-000	000	38. Power on (Machine start)
T39	39. Power on (Machine start)	000-000	000	39. Power on (Machine start)
T40	40. Power on (Machine start)	000-000	000	40. Power on (Machine start)
T41	41. Power on (Machine start)	000-000	000	41. Power on (Machine start)
T42	42. Power on (Machine start)	000-000	000	42. Power on (Machine start)
T43	43. Power on (Machine start)	000-000	000	43. Power on (Machine start)
T44	44. Power on (Machine start)	000-000	000	44. Power on (Machine start)
T45	45. Power on (Machine start)	000-000	000	45. Power on (Machine start)
T46	46. Power on (Machine start)	000-000	000	46. Power on (Machine start)
T47	47. Power on (Machine start)	000-000	000	47. Power on (Machine start)
T48	48. Power on (Machine start)	000-000	000	48. Power on (Machine start)
T49	49. Power on (Machine start)	000-000	000	49. Power on (Machine start)
T50	50. Power on (Machine start)	000-000	000	50. Power on (Machine start)
T51	51. Power on (Machine start)	000-000	000	51. Power on (Machine start)
T52	52. Power on (Machine start)	000-000	000	52. Power on (Machine start)
T53	53. Power on (Machine start)	000-000	000	53. Power on (Machine start)
T54	54. Power on (Machine start)	000-000	000	54. Power on (Machine start)
T55	55. Power on (Machine start)	000-000	000	55. Power on (Machine start)
T56	56. Power on (Machine start)	000-000	000	56. Power on (Machine start)
T57	57. Power on (Machine start)	000-000	000	57. Power on (Machine start)
T58	58. Power on (Machine start)	000-000	000	58. Power on (Machine start)
T59	59. Power on (Machine start)	000-000	000	59. Power on (Machine start)
T60	60. Power on (Machine start)	000-000	000	60. Power on (Machine start)
T61	61. Power on (Machine start)	000-000	000	61. Power on (Machine start)
T62	62. Power on (Machine start)	000-000	000	62. Power on (Machine start)
T63	63. Power on (Machine start)	000-000	000	63. Power on (Machine start)
T64	64. Power on (Machine start)	000-000	000	64. Power on (Machine start)
T65	65. Power on (Machine start)	000-000	000	65. Power on (Machine start)
T66	66. Power on (Machine start)	000-000	000	66. Power on (Machine start)
T67	67. Power on (Machine start)	000-000	000	67. Power on (Machine start)
T68	68. Power on (Machine start)	000-000	000	68. Power on (Machine start)
T69	69. Power on (Machine start)	000-000	000	69. Power on (Machine start)
T70	70. Power on (Machine start)	000-000	000	70. Power on (Machine start)
T71	71. Power on (Machine start)	000-000	000	71. Power on (Machine start)
T72	72. Power on (Machine start)	000-000	000	72. Power on (Machine start)
T73	73. Power on (Machine start)	000-000	000	73. Power on (Machine start)
T74	74. Power on (Machine start)	000-000	000	74. Power on (Machine start)
T75	75. Power on (Machine start)	000-000	000	75. Power on (Machine start)
T76	76. Power on (Machine start)	000-000	000	76. Power on (Machine start)
T77	77. Power on (Machine start)	000-000	000	77. Power on (Machine start)
T78	78. Power on (Machine start)	000-000	000	78. Power on (Machine start)
T79	79. Power on (Machine start)	000-000	000	79. Power on (Machine start)
T80	80. Power on (Machine start)	000-000	000	80. Power on (Machine start)
T81	81. Power on (Machine start)	000-000	000	81. Power on (Machine start)
T82	82. Power on (Machine start)	000-000	000	82. Power on (Machine start)
T83	83. Power on (Machine start)	000-000	000	83. Power on (Machine start)
T84	84. Power on (Machine start)	000-000	000	84. Power on (Machine start)
T85	85. Power on (Machine start)	000-000	000	85. Power on (Machine start)
T86	86. Power on (Machine start)	000-000	000	86. Power on (Machine start)
T87	87. Power on (Machine start)	000-000	000	87. Power on (Machine start)
T88	88. Power on (Machine start)	000-000	000	88. Power on (Machine start)
T89	89. Power on (Machine start)	000-000	000	89. Power on (Machine start)
T90	90. Power on (Machine start)	000-000	000	90. Power on (Machine start)
T91	91. Power on (Machine start)	000-000	000	91. Power on (Machine start)
T92	92. Power on (Machine start)	000-000	000	92. Power on (Machine start)
T93	93. Power on (Machine start)	000-000	000	93. Power on (Machine start)
T94	94. Power on (Machine start)	000-000	000	94. Power on (Machine start)
T95	95. Power on (Machine start)	000-000	000	95. Power on (Machine start)
T96	96. Power on (Machine start)	000-000	000	96. Power on (Machine start)
T97	97. Power on (Machine start)	000-000	000	97. Power on (Machine start)
T98	98. Power on (Machine start)	000-000	000	98. Power on (Machine start)
T99	99. Power on (Machine start)	000-000	000	99. Power on (Machine start)
T100	100. Power on (Machine start)	000-000	000	100. Power on (Machine start)

5. Error Code Table:

Error	Problem	Measure
E01	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E02	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E03	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E04	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E05	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E06	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E07	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E08	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E09	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E10	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E11	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E12	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E13	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E14	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E15	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E16	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E17	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E18	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E19	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E20	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E21	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E22	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E23	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E24	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E25	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E26	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E27	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E28	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E29	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E30	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E31	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E32	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E33	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E34	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E35	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E36	1) When power on, detected main voltage too low. 2) When the supply voltage is too low.	Turn off the system power supply, and detect whether the supply voltage is correct. (Or exceed the rated voltage.) If correct, please replace the control box and return the factory.
E37	1) When power on, detected main voltage too high. 2) When the supply voltage is too high.	Turn off the system power supply, and detect whether the