

# Manual of Simple separated systemV1.0

## 1.Safety precautions

Before use, please read this manual and lockstitch machine's manual at the same time, thanks for your cooperation.

- 1.1 (1) The voltage and working frequency: please according the name plate of motor and contorlling box.  
(2)Electromagnetic interference:Please stay away from high-frequency magnetic wave machines or Radio wave transmitter etc.In order to prevent the generated electromagnetic waves from interfering with the drive device and causing wrong action  
(3)Grounded:To prevent noise interference or leakage accidents,Please do grounding works including sewing machine, motor and control box.
- 1.2 If Disassemble motor and controlling box,please Turn off the power in advance.Dangerous high voltage electricity in the electric control box, so please waiting more than 1 mins after Turn off the power, then to disassemble the control box
- 1.3 To ensure the safety of life,Please turn off the power when repair the machine or threading needles.
- 1.4 ⚠This symbol indicates when the machine is installed,if made a mistake,the human body or the machine may be damaged,Therefore, there will be this mark in the dangerous place of the machine.  
⚡This symbol indicates that there is high voltage, etc.Electrically dangerous places have this mark.
- 1.5 This products guarantees a one-year warranty under normal working conditions and no-one error operation

## 2.Install Requirement

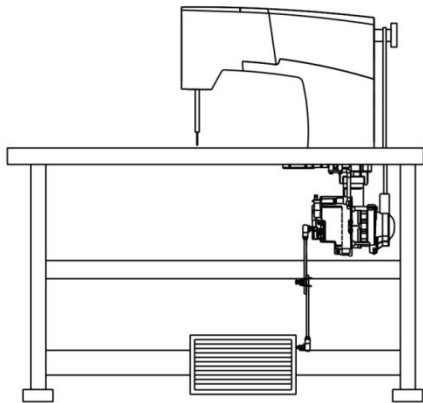
### Install Instruction （Photo in the right side）

#### 2.1、Belt Install Instruction:

Make sure the sewing machine hand wheel and motor pulley in the same level; and control the tightness of belt(use two fingers hold belt tight, two belts cannot be touched and not too tight);

#### 2.2、Connecting Rod install instruction:

Make sure the perpendicularity of the rod, or it will affect the life and performance of the pedal.



## 3、Key Description

|                                    |  |                                                                                                                                                                                                                                       |
|------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Function parameter edit key        |  | Enter or exit the editing of function parameters                                                                                                                                                                                      |
| Parameter view save key            |  | View and save the content of the selected parameter number: After selecting the parameter number, press this key to view and modify the operation, after modifying the parameter value, press this key to exit and save the parameter |
| Up selection key                   |  | 1.Increment key for parameter item in parameter selection area<br>2. Set the value increment key in the parameter content area                                                                                                        |
| Down Select key                    |  | 1.Decrease key of parameter item in parameter selection area<br>2.Set the value decreasing key in the parameter content area                                                                                                          |
| Slow start key                     |  | 1.To setting open or cancel the slow start sewing function<br>2.If this key and the‘down selection key’are combination to one key, press and hold for 1 second to turn on or cancel the slow start sewing function                    |
| Stop needle position selection key |  | 1.Switch the stop position of the needle after sewing (upper position/down position)<br>2.If this key and the‘up selection key’are combination to one key, press it for 1 second to switch the needle position                        |

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## 4.Instructions

### 4.1 Monitoring mode

Press the S key for 2 seconds to enter the monitoring state, press ▲▼ to change the monitoring serial number, the monitoring value cannot be modified. The specific monitoring interface is shown in the table below.

|             |             |       |
|-------------|-------------|-------|
| Display No: | Item number | unit  |
| SPd         | Speed       | 10rpm |
| CUr         | Current     | 0.1A  |
| UdC         | Voltage     | V     |
| PdL         | Pedal       | /     |

|             |             |      |
|-------------|-------------|------|
| Display No: | Item number | unit |
| HAL         | HAL         | /    |
| id          | model       | /    |
| vEr         | version     | /    |
|             |             |      |

### 4.2 Quick operation mode

- 1.In normal power-on state, press P+slow start sewing key to switch between forward and reverse
- 2.In normal power-on state, press P+ up and down needle position keys to switch with or without needle stop position

## 5、Failure description

| Error code | Fault content                       | Reason                                                                             | Inspection items and how to fix                                                                                                                                                                                    |
|------------|-------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E-01       | System voltage is too high          | Actual voltage is too high<br>Brake circuit failure<br>Incorrect voltage detection | Whether the incoming line voltage of the system is too high<br>Whether the braking resistor is working properly<br>Whether the system voltage detection circuit works normally                                     |
| E-02       | System voltage is too low           | Actual voltage is low<br>Incorrect voltage detection                               | Whether the incoming line voltage of the system is too low<br>Whether the system voltage detection circuit works normally                                                                                          |
| E-03       | Operation box communication is poor | The communication data of the head operation box is lost                           | Whether the operation box plug is in good contact<br>Whether the operation box device is damaged<br>Whether the operation box program has been burned                                                              |
| E-05       | Pedal ID failure                    | Pedal recognition failure                                                          | Loose pedal joint                                                                                                                                                                                                  |
| E-07       | Motor overload                      | Motor blocked,Motor overload                                                       | Whether the motor plug is in good contact<br>Whether the machine head or trimming mechanism is stuck<br>Whether to sew fabrics above the specification thickness<br>Whether the current detection signal is normal |
| E-09,E11   | Motor signal failure                | Motor positioning signal failure                                                   | Whether the motor encoder interface is in good contact<br>Whether the needle stop substrate is installed in place                                                                                                  |
| E-14       | Encoder signal is abnormal          | Motor sensor signal failure<br>Motor power cable is damaged                        | Whether the motor encoder interface is in good contact<br>Whether the motor interface is in good contact                                                                                                           |
| E-15       | Motor current is too large          | Current detection is abnormal<br>The motor is running abnormally                   | Whether the system current detection circuit is working normally<br>Whether the motor signal is normal                                                                                                             |
| E-17       | Flip switch failure                 | Flip switch effective                                                              | Put down the machine head or check the flip switch                                                                                                                                                                 |
| E-22       | OZ loop failure                     | OZ loop detection abnormal                                                         | Check whether the OZ circuit is normal                                                                                                                                                                             |

Note: If the above faults cannot be eliminated according to the inspection items, please applicate technical support.

## 6、Parameter list

|     |                                  |              |          |                                                                                                      |
|-----|----------------------------------|--------------|----------|------------------------------------------------------------------------------------------------------|
| P01 | Maximum speed                    | 200-5000 RPM | 3700 RPM | Maximum speed setting during sewing                                                                  |
| P02 | Synchronizer selection           | 0-2          | 2        | "0" :Needle up,"1": Needle down ,"2" :without signal                                                 |
| P03 | Slow start sewing switch         | 0-1          | 0        | "0" :on, "1": off                                                                                    |
| P04 | Slow start sewing speed          | 200-1500 RPM | 400      | Slow start sewing speed setting                                                                      |
| P05 | Slow start sewing stitches       | 1-15         | 1        | 1-15: Slow start sewing stitches                                                                     |
| P06 | Minimum sewing speed             | 200-500 RPM  | 200      | Minimum speed setting during sewing                                                                  |
| P07 | Upper needle position adjustment | 0-100        | 0        | Upper needle position adjustment                                                                     |
| P08 | Down needle position adjustment  | 0-100        | 10       | Down needle position adjustment                                                                      |
| P09 | Acceleration curve adjustment    | 0-4          | 1        | "0" mean can't find upper needle position adjustment, "1" mean find upper needle position adjustment |
| P10 | Motor running direction          | 0-1          | 0        | "0": for interlock, "1" : for overlock                                                               |
| P11 | Reset                            | 0-2          | 0        | "0": don't reset, "1" : Reset normal parameters, "2" : Reset all parameters(lever II interface )     |
| P12 | Trinning function selection      | 0-2          | 2        | "0": off, "1" : on,"2" : Step back output signal                                                     |
| P13 | Trimming action time             | 0-100        | 2        | Unit: 0.1s                                                                                           |
| P14 | Trimming delay time              | 0-100        | 0        | Unit: 0.1s                                                                                           |
| P16 | Suction function selection       | 0-2          | 2        | "0": off, "1" : step back and turn on,"2" : Normally open                                            |
| P17 | Suction action time              | 0-100        | 2        | Unit: 0.1s                                                                                           |
| P18 | Suction delay time               | 0-100        | 0        | Unit: 0.1s                                                                                           |