G SERIES USER MANUAL

CONTENTS

- 3. Panel instructions





HSVPG1U01-2





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EC Declaration of Conformity

eby declare that the following products are in conformity with the provision of the EC directives as following:

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EC Low Voltage Directive (2006/85/EC)

-EC Electronappetic Compatibility Directive (2004/108/EC)

-EC Blactronappetic Compatibility Directive (2004/108/EC)

-EC Machinery Directive (2006/42/EC)

Applied harmonized standards :

EN 60204-31 : Electrical equipment of industrial machines. Particular requirements for sewing machines. Particular requirements for sewing machines, sewing units and sewing system.

EN 292-1 : Safety of machines, technical guidelines and specifications.

EN 61000-6-2 : EMI for machines inchring the service of the control o

Declaration of Conformity for Concentration Limits for Certain Hazardous Substances

We hereby declare that the following products:

requirements:

Leuropean Union RoHS Directive (2002/95/EC) and the concentration limits for certain hazardous substances (2005/618/EC).

People's Republic of China Electronic Business Standad: Requirements for concentration limits for certain hazardous obstances in electronic information products (SJ/17 1303-2006).

products (SJT 11383-2008)

Our product itself (motor, control box) or its packing materials and accessories (box, screws package, user manual, sticker, label, print...etc.) or the suppliers of parts and raw materials are all in conformity with the provision of the European Union RoHS Directive and People's Republic of China Electronic Business Standard to conform the following concentration limits for the six hazardous substances.

Hazardous Substance	Permissible Values				
Lead (Pb)	Less than 240 ppm				
Mercury (Hg)	Less than 800 ppm				
Cadmium (Cd)	Less than 80 ppm				
Hexavalent chromium (Cr VI)	Less than 800 ppm				
Polybrominated Biphenyl (PBB)	Less than 800 ppm				
Polybrominated Diphenyl ether	Less than 800 ppm				

(PBDE) ration of lead in the lead-free pro PCB shall be less than 800 ppm.

*For packing materials shipped with our products or parts, the hazardous substances shall be 80 ppm cless in sum of Pb+Hg+Cd+Cr VI.

H. S. Machinery. Co., Ltd.

Mr. C. C. Lee Plant Manager

1. Safety Precaution:

Please read this manual with sewing machine manual thoroughly and pay attention for the

Installation and operation must be done by the trained personnel, also turn off the power switch and remove the plug

• Only use the power voltage as described on the name plate of the motor and control box in ±10 % ranges

power outlet, otherwise the error will occur and motor is not functional. If that $% \left(1\right) =\left(1\right) \left(1\right)$ happened, please turn off the power switch immediately and check the power voltage. Continue supply the 380V power over 5 minutes might damage the fuses and burst the electrolytic capacitors and even might endanger the person safety.

- In order to prevent abnormal operation, keep the product away from the high frequency machines.
 Don't operate in direct sun light · outdoors area and the room temperature is 45°C above or 5°C under.
 Don't operate near the heater · dew area and the humidity is 30 % less or 95% more.
- Don't operate in dusty \(\cdot \) evaporate \(\cdot \) combustible gas area, and stay away from corrosive material

- Don't apply heavy objects or excessive force on the power cord, also don't bend or pull the power cord.
 Power cord must keep 3 cm or above distance away from the V-belt and the pulley.
 In order to prevent the static interference and current leakage, all grounding works must be done properly.
 After power on the machine for the first time, use low speed to operate and check the correct rotation direction.
 During machine operation, don't touch any moving parts.
- · All moving parts must have protective device to avoid the body contact and objects insertion.
- · Maintenance and repair must be done by the properly trained technician, also all the spare parts for repair must be
- approved or supplied by the manufacturer.

 Don't use any objects or force to hit or ram the product.

Danger and caution signs

◮

Risks that may cause personal injury or risk to the machine are marked with this symbol in the instruction manual.

⋬

This symbol indicates electrical risks and warnings.

Limited Warranty

Warranty period of this product is 1 year from purchasing, or 18 months from our manufacturing date.

Warranty Detail

Any trouble found within warranty period under normal use condition in conformance with this manual, it will be repaired free of charge. Repair will be chargeable in the following cases even if within warranty period:

Inappropriate use include: wrong connecting high voltage, wrong application, disassemble, repair, modification by incompetent personnel, or operate the product without the precaution, or operate the products out of its specification range. Insert odd objects or liquids into the product.

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.

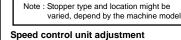
3. Dropping after purchase, or damage in transportation by customer himself. (or by customer's shipping

Note: We put our best effort and mind in testing and manufacturing for assuring the quality and reliable of this product. But it is possible this product can still 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 be well-connected to this product and it's also recommended to install a fallsafe device.

following safety precaution.

- from outlet and wait for 5 minutes before any installation.

 This product is designed for the specific sewing machines and must not be used for other purpo
- *Attention : If the control box is AC 220V system, please don't connect to the AC 380V



Mounting the Synchronizer onto the flange of

hand wheel and match the stop groove of the

synchronizer with the stopper of the machine head then tighten and secure 2 hexagonal screws of the synchronizer rotor, then connect the synchronizer cable to the control box.

Synchronizer installation

2. Installation : a). Install the motor and

G installation

table

control box under the



Caution:

3

Parameter

For person safety, turn off the power switch and remove the power plug from outlet before any adjustme

Term of adjustmen

Toeing forward

force adjustment

Heeling backward

force adjustment Pedal stroke

adjustment

Components of speed control unit : see figure

A: Spring for toeing forward force adjustment Bolt for heeling backward force adjustment

Setting screw

Photo disc (A)

Bearing cover plate

Caution

For person safety, turn off the power switch and remove

the power plug from outlet before any adjustment.

Needle up position : Rotate the machine pulley to reach mechanical needle up position and turn the photo disc (A) until its red mark is

Note: Instruction above is the standard adjustment. If you feel the position wasn't

aligned with the red mark on the bearing cover plate.

Synchronizer Adjustment (Please open the top cover first)

accurate, please do the fine tuning by yourself.

- Pedal arm

Spring A move to right = force increased

Spring A move to left = force decreased

Rod D secure at right = stroke is longer

Rod D secure at left = stroke is shorter

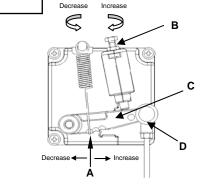
Bolt B turn = force decreased

Bolt B turn = force increased

To control box

D: Pitman rod for pedal

Adjustment result



High

Cover stitch

c). Install the V-Belt on the motor and

belt to its appropriate tension.

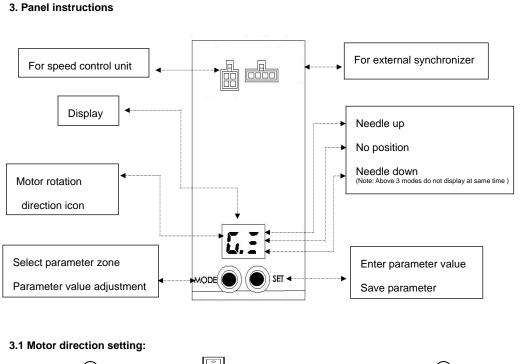
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0

4. Parameter settings

Function Name

NO.	Function Name	Range	Value	Lockstitch	needle	Post	lock	Cover stitch
P0	Maximum sewing speed	1~65	*100spm	40	20	15	60	38
P1	Low speed	10~50	*10spm	23	23	23	23	23
P2	Motor's pulley dimension	50~G0	*1m/m	90	75	65	90	A0
P3	Machine's pulley dimension	50~G0	50 ~ 160	75	80	70	55	65
P4	Pulley's ratio setting mode selection	ON/OFF	ON: Refer to P2.P3 OFF: Calculate Automatically	OFF	OFF	OFF	OFF	OFF
P5	Sewing speed							
P6	Needle up position	0 ~ 35	*10°	0	0	0	0	0
P7	Virtual down A position edge angle	9~30	*10°	18	18	18	18	18
P8	Single signal synchronizer	ON/OFF	ON: Valid OFF: Invalid	OFF	OFF	OFF	OFF	OFF
P9	Selected needle up position	L/H	L:LOW H:HIGH	L	L	L	L	L
PA	Slow start operation mode	ON/OFF	ON: Valid OFF: Invalid	OFF	OFF	OFF	OFF	OFF
РВ	Soft start speed	10~50	*10spm	20	20	20	20	20
PC	Stitch numbers for soft start	1~9	*1 Stitch	2	2	2	2	2
PD	Soft start at the first cycle of power ON	ON/OFF	ON: Slow speed at first stitch OFF: Refer to P7	OFF	OFF	OFF	OFF	OFF
PE	Motor braked at normal stop	ON/OFF	ON: Locked OFF: Unlocked	OFF	OFF	OFF	OFF	OFF
PF	Weak braking torque scale	0.1~5.0	Ampere value	2.0	2.0	2.0	2.0	2.0
PG	Acceleration time	10~50	*10ms	30	30	30	30	40
PH	Deceleration time	10~50	*10ms	26	26	30	26	26
PI	Reverse after pedal heel down	ON/OFF	ON: Valid OFF: Invalid	OFF	OFF	OFF	OFF	OFF
PJ	Setting of reversing angle	10~30	*10°	18	18	18	18	18
PK	Needle up after pedal heel down	ON/OFF	ON: Valid OFF: Invalid	OFF	OFF	OFF	OFF	OFF
PL	One stitch on way of sewing	ON/OFF	ON: Valid OFF: Invalid	OFF	OFF	OFF	OFF	OFF
РМ	Half stitch at first stitch after needle up	ON/OFF	ON: Valid OFF: Invalid	OFF	OFF	OFF	OFF	OFF
PZ	Select machine code	A0 ~ E9		A0	В0	C0	D0	E0
FL	Recovery to factory setting	Y/N	Y: Recover factory presetting N:					
FS	Save factory setting	Y/N	Y: Saves factory presetting N:					



Press the " MODE
" and turn on the power at same time . Enter the setting mode , press "MODE " key to select C(CW) / CC(CCW). Press "SET" key to save.

3.2 How to set needle position while fixed the synchronizer :

Press the " SET" key and turn on the power at same time. Enter the setting mode , press "MODE " key To select UP /

DOWN , press " SET" key to save. 3.3 Selected machine code:

Enter "PZ" PARAMETER , press "

SET" display snowes A0 then press "MODE

"and hold it to adjust decimal A~E , press "

SET" and hold it to adjust digit 0~9.

3.4 Adjust step at parameter zone: Step1: Press "MODE" key to enter setting mode.

Step2: Press "MODE" key select the parameter you want to adjust.

Step3: Press "SET" key enter the parameter value adjustment

Step4: Press "MODE" key increase the value.

Step5: Press "SET" key to save.