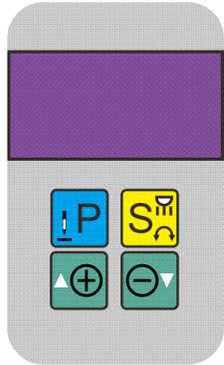


# Servo Motor User Manual

## I. Front Panel



	Name	Description
	Display area	Display parameter and operating mode
	Parameter	Parameter and needle position function
	Setup	Parameter and rotation, LED light function
	Add	Parameter select or set
	Sub	Parameter select or set

## II. Normal function set

### 1. Max speed set

The max speed can be adjusted through and , the step is 100spm.

### 2. Needle position function set

Press to turn on or turn off the needle position function. The left dot of the screen is ON after the needle position function is enabled. And flip to change the position of needle, when the position of needle is down position, the screen will display “DW”; when the position of needle is up position, the screen will display “UP”.

### 3. Rotation function set

The default rotation is anticlockwise, press until the right dot of the screen is ON, and then the rotation will change to clockwise.

### 4. LED light function set

Flip to turn on or turn off the LED light, five different bright.

### 5. Parameter set

Press and at the same time to enter the parameter. Chose the parameter NO. by or , and flip showing the value, and change the parameter value by or , at last flip again to save it.

## III. Parameter Table

	Index	Range	Default	Description
	P-01	100~900	500	Startup speed (spm)
	P-02	500~5000	3000	Max speed (spm)
	P-03	0~1	0	Needle stop position. 0: down; 1:up
	P-04	OFF~ON	OFF	Synchronizer function. OFF: close, ON: open <b>Note: Do not open the parameter if not connected to synchronizer.</b>
	P-05	OFF~ON	OFF	Motor reverse rotation. OFF: close, ON: open
★	P-09	0~*	*	Up position adjustment
★	P-10	0~*	*	Down position adjustment
★	P-11	OFF~ON	OFF	Speed-lock function. OFF: close, ON: open
★	P-13	1~3	2	Synchronizer type. 1: internal single signal, 2: external single signal, 3: external double signal
★	P-20	0~9	0	Stitch for soft start
★	P-21	100~900	400	Speed for soft start (spm)
★	P-22	500~5000	4500	System speed limitation, motor speed never exceeds this parameter (spm)

## IV. Error Code Table

Code	Cause	measurement
E3	Over current	Check motor connector, or replace control box
E4	Pedal fault	Check pedal connector
E5	Synchronizer fault	Check Synchronizer connector and position signal
E6	Hall fault	Check motor connector, or replace motor
E7	Lock rotor fault	Check motor connector, or machine head

## V. Check Function

Press until display “T” during power on, the press to switch the index.

No.	Item	Method
A	Pedal	Press pedal, from back to front, it will be shown: B, S, L, 1~9.
B	Synchronizer	Turn the hand wheel, “U” will display to show signal.
C	Hall	Rotate motor to display hall value, “E” indicate fault state.

VI. Display Characters Table

0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
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Arabic Number

A	A	B	b	C	C	D	d	E	E	F	F	G	G	H	H	I	i	J	J
K	k	L	L	M	m	N	n	O	o	P	P	Q	q	R	r	S	s	T	t
U	U	V	v	W	w	X	x	Y	y	Z	z								

English Alphabet

VII. Others

- Press  during power on can be accessed parameter after P-05.
- Press  and  together exceed 3 seconds will restore all parameters.