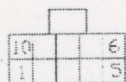
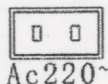


# TH-550S Series Servo System

## USER MANUAL

### 1. Controller



Motor



Speed Adjuster

















Synchronizer

### 2. Panel





### 3. Operating Instruction

3.1...Speed Adjusting Setting, Rotation Direction Setting, Needle Positioning setting, Speed of Motor Stop setting Keep pressing , then press , the nixietube shows 2222, then press  adjust it to 2226, then press  to enter parameter setting interface P-01, press  or  to choose P-01 to P-06, then press , the nixietube shows parameters, press  to add, press  to minus, then press  to save it; then press  to exit, back to the Stand-by interface.

3.2. Shortcut of setting Needle Position: Enter P-05, adjust into 0000, press , the third decimal point is light, means needle up position, then press , the fourth decimal point is light, means needle down position, reversely step down the pedal, needle would immediately return up. Then press , the decimal point is extinct, needle position function is off.

### 4. Parameter Description

4.1. Turn the controller on, enter the Stand-by interface, the nixietube shows 0000;

4.2. Keep pressing , then press , the nixietube shows P-01 to P-06, enter the parameter setting interface.

P-01: Speed Limitation, range from 500 to 5000rpm, factory set is 3800rpm;

P-02: Lowest Speed, range from 300 to 800rpm, starting speed of factory set is 500rpm;

P-03: Motor Rotation

When the nixietube shows 0000; it's anti-clockwise ( same as rotation of lockstitch machine);

when the nixietube shows 0001; it's clockwise ( same as rotation of overlock machine); factory set is anti-clockwise.








P-04: Sewing machine type . 0001---lockstitch machine 0002---overlock machine.

P-05: Needle Positioning

0000---- needle positioning function is on; 0001---needle positioning function is off. Factory set is off.

P-06: Speed of Motor Stop: the nixietube shows 0 to 30, stands for 0 to 3000rpm; the faster the motor runs, the faster it stops; conversely, the slower the motor runs, the slower it stops.

### 5. Measure Function

At the Stand-by interface, keep pressing , then press  for two seconds, the nixietube shows F-01, press  to get the current parameter, then press  return to F-01, press  to F-02, then press  to F-03, press  back to the Stand-by interface.

F1: Measure the Hall signal of motor: Turn the wheel a circle, if the nixietube shows 01-02-03-04-05-06 or in reverse order, it's normal; if skip number or shows 00, please check the connection between motor and plugs, and make sure they are reliable; and make sure the contact pins are in their places;

F2: Measure the speed adjuster, if the nixietube shows 1.9-2.0, it's normal; if shows 1.7 or less, please adjust or replace the speed adjuster.

F3: Measure the Hall signal of needle positioning: turn the wheel to the mark of needle positioning, if the nixietube shows 01-00-01 alternatively, it's normal; if shows 00, it's no signal. please check the connection between motor and plugs, and make sure they are reliable; and make sure the contact pins are in their places.

### 6. Error Code and Diagnosis Instruction

Error Code	Meaning	Solution
E1	Hardware Overflow	Turn off the power, reset it after 10 seconds;
E2	Over Voltage Protection	Turn off the power, check the input power voltage, restart the controller after the voltage resumes;
E3	Error of Needle Positioning	Please check Needle Positioning function P-05, 0000---fuction is on, check and make sure the plugs of synchronizer is well; if don't need needle positioning, please adjust it to 0001.
E7	Motor Stalled	Please check if anything makes the loading heavier, such as material thickness, machine lubrication etc