

S7 super-silent intelligent control computerized post bed roller feed sewing machine training PPT



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instruction

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1.Naming rules



Brand	Model	—	Type	Needle	Feature 1	Feature 2
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Brand	
S	Jack

Type	
8	Thin column
9	Standard column

Feature 1	
/	Import hook

Model	
7	Stepper roller machine
7+	IoT Stepper roller machine

Needle no.	
1	Single needle
2	Double needle

Feature 2 (optional)	
X	Short trimmer
D	Upper active feeding backtack (upper roller)
Sequence : : XD	

Feature 3	
T	Touch panel
/	Button screen



2. Electric control operation instruction

1. Panel operation instructions

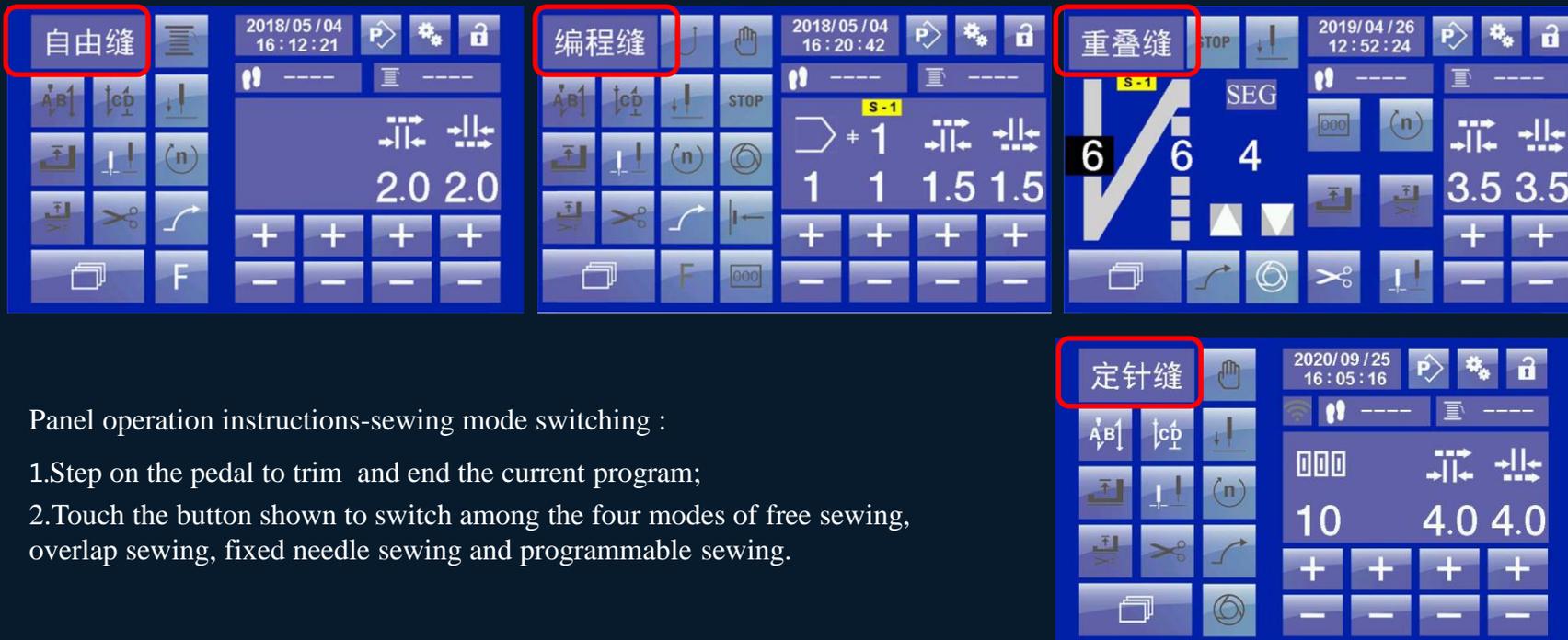


Power on:

1. Turn on the power switch; (when the machine is powered on, the machine will automatically find the upper needle stop position to avoid hurting your hands. Please do not put your hands in the needle position.)
2. Touch the key to enter the sewing state.

2.Touch operation panel

5.0 inches big touch panel makes you easy to operate and understand. Operators can freely switch sewing mode between free sewing mode, overlap sewing mode, fixed needle sewing mode and programmable sewing mode.



Panel operation instructions-sewing mode switching :

- 1.Step on the pedal to trim and end the current program;
- 2.Touch the button shown to switch among the four modes of free sewing, overlap sewing, fixed needle sewing and programmable sewing.

3 Panel operating instructions - setting of speed and needle gauge under free sewing

The number of stitches cannot be set in free sewing mode.



Speed, white indicates that the setting is activated



upper roller needle gauge



lower roller needle gauge

Speed and needle gauge setting:

1. The needle gauge of the upper roller is adjusted by 0.1 for the corresponding column; the needle gauge of the lower roller is adjusted by 0.1; the needle gauge of the lower roller is adjusted by 0.1; the needle gauge of the upper and lower rollers is different to realize differential sewing according to the sewing needs;
2. Touch the speed icon and the page turning button to adjust the + - of the corresponding column of the speed number, and the speed changes with 100. AB SPD is the front reinforcement speed, the maximum is 1500, and CD SPD is the rear reinforcement speed, with the maximum of 1500.

4 Panel operating instructions —— setting of overlap sewing mode

Number 3: digital representation

Number of repeated segments

Number 1: digital representation

Number of stitches in the direction shown

Number 1: digital representation

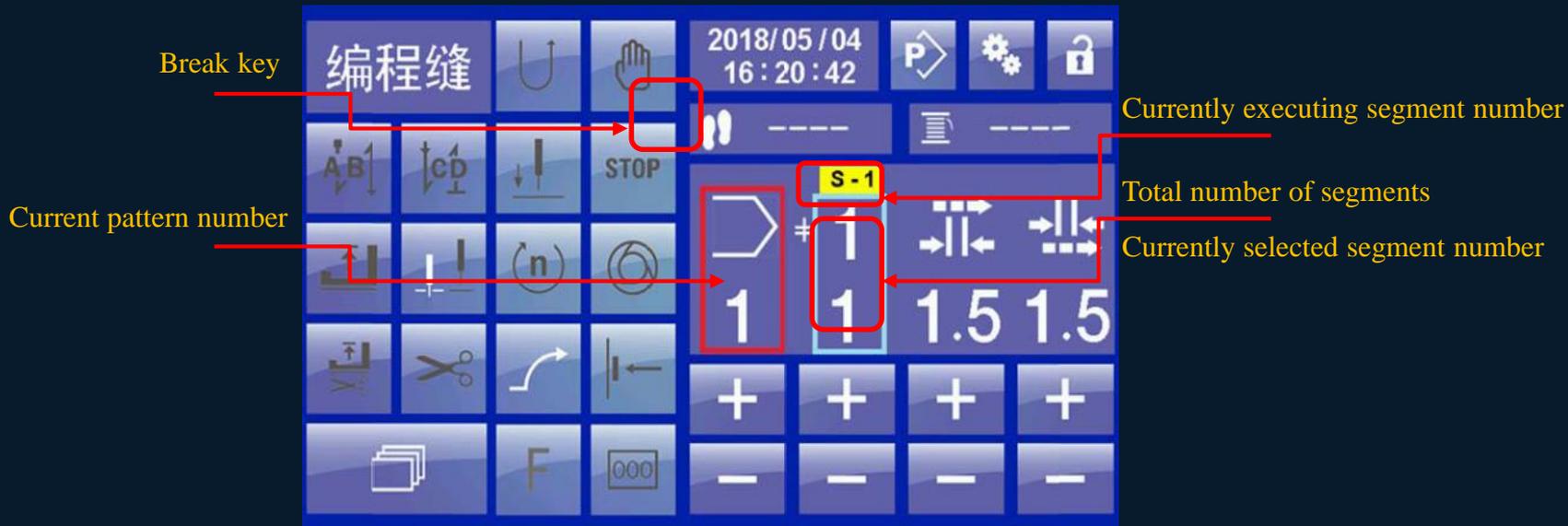
Number of stitches in the direction shown



Stitch gauge adjustment button:

1. Overlapping sewing is similar to W sewing, switch to overlapping sewing mode;
2. Tap the number 1 to modify the number of stitches, tap number 2 to modify the number of stitches,
3. Tap the number 3 to modify the number of segments

5 Panel operating instructions —— setting of programmable sewing mode

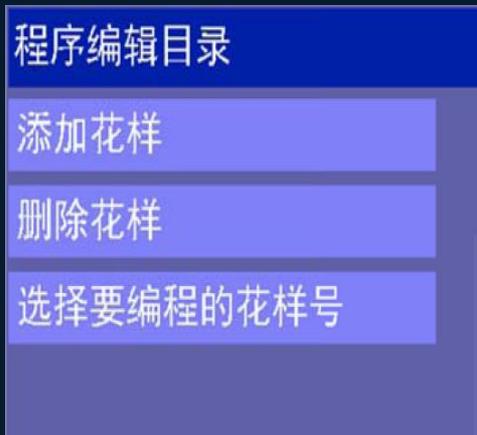


Pattern sewing button-segment switching:

1. The pattern number, total segment number and current segment number on the display interface are shown in the figure above;
2. The method of switching program segments on the display interface: when sewing is finished, touch the break key, the symbol turns white; touch the +- key corresponding to the total number of segments to switch the segment number; at this time, after "S-" The number of will change accordingly;
3. If the break key is not pressed, the current segment number will change, and the number after S- will remain unchanged, indicating that the currently executing segment has not changed.

6 Panel operating instructions — programmable sewing mode for patterns

Long press P to enter the edit directory interface, for example: if you want to edit 3# pattern, you need to add the pattern number 3 first, then select the pattern to edit, select 3#



Add pattern number first

Select the pattern number to edit

The following functions can be set for each segment

Currently edited segment



Page key



Modify the number of segments of the program

Trigger button:

1. The idea of pattern programming is to first determine the number of segments required for sewing, and then determine the stitch length, number of stitches, direction, speed, and reinforcement of each segment of the program;
2. Touch the page key to confirm the total number of segments, return to the interface, and modify the above parameters of each program segment to get a pattern.

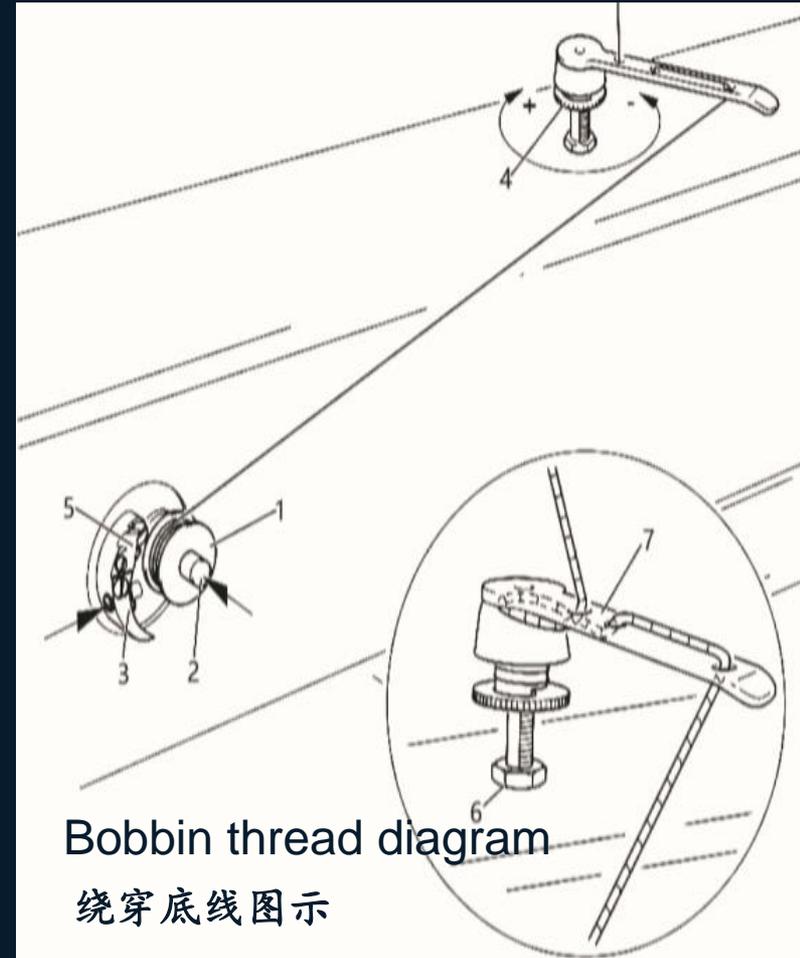
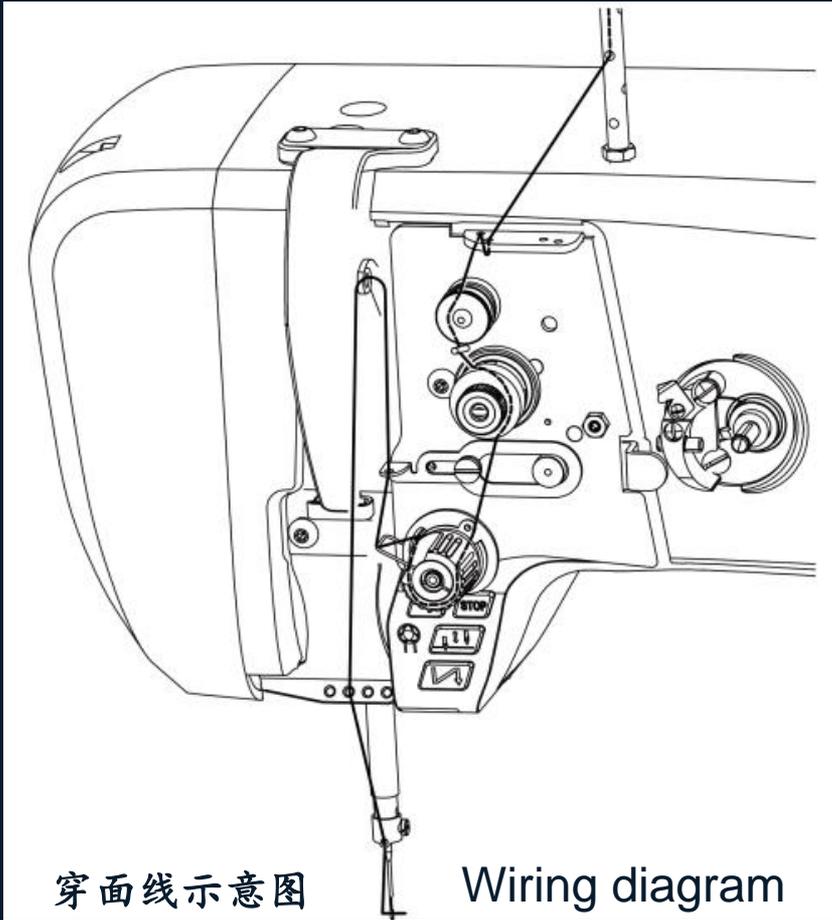
7 Operating instructions for fault alarm (1/2) (QiXing)

Fault code	Code meaning	Solutions
3100	Software not licensed	Reinitialize parameters
3101	Out of range Parameter	Reinitialize parameters
3110	Pedal setting error / or pedal fault	Incorrect pedal value
3111	Encoder or reference point sensor failure or motor failure	Check whether the spindle is stuck or the encoder is faulty
3112	Data error	Data processing error, reset sewing parameters
3114	Head open	The nose is pulled down or the nose tilt sensor is faulty
3118	Electromagnet failure	Check the electromagnet for short circuit
3119	Abnormal spindle	The spindle is locked or the encoder is abnormal
3120	Abnormal needle motor	The needle does not rotate due to locked rotation or other reasons
3121	Communication failure	The data returned by the upper computer is not received
3122	Communication data validation error	Error in data received
3123	Abnormal Spindle drive	Spindle motor over current

8 Operating instructions for fault alarm (2/2) (QiXing)

Fault code	Code meaning	Solutions
3124	Abnormal needle drive	Over current of cycloid motor
3125	Pattern transmission error	Pattern transmission error, communication problem
3126	Parameter transfer error	Parameter transmission error, communication problem
3127	Knee control switch sewing section failed	When switching the sewing section, the upper computer does not respond
3128	Abnormal position of swing needle	The position of the swing needle exceeds the normal range
3129	Overvoltage	Supply voltage too high
3130	Under voltage	Supply voltage too low
21	The control board did not find the origin	The spindle or pendulum needle does not find the origin. First, judge whether the spindle works normally, and then judge the swing needle

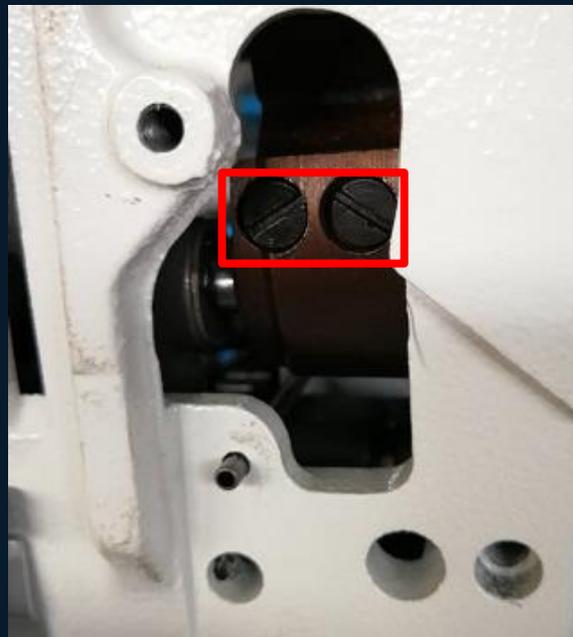
3 Mechanical adjustment



Thread take-up stroke adjustment



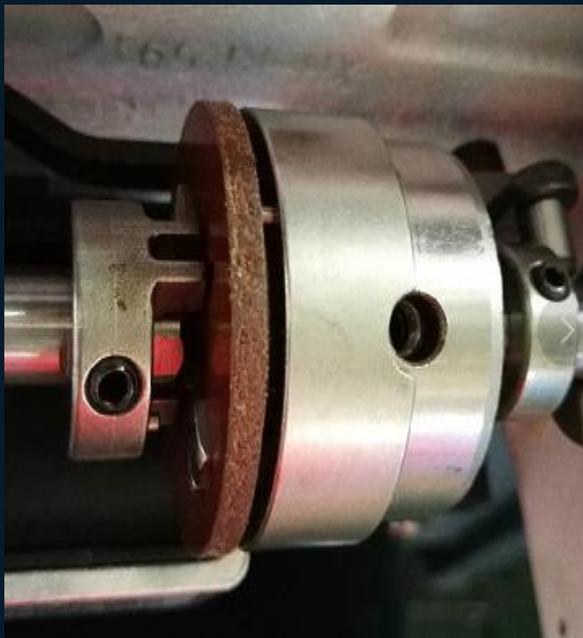
Step 1: Figure 1 The standard stroke of the thread take-up lever from bottom to top is 62mm.



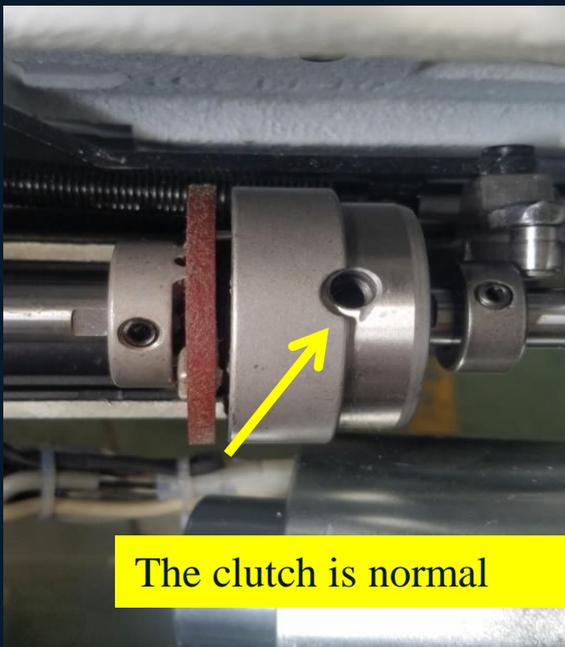
Step 2: Stroke adjustment method: first loosen the tightening screws of Figure 2 (2 flat-blade screws) and Figure 3 (2 3mm hexagon socket screws), and then press the thread take-up lever and turn the hand wheel to fine-tune. Tighten the screws in Figure 2 and Figure 3 after the line stroke.



Installation of the lower shaft rotary hook clutch assembly **JACK 杰克**



Step 1: Figure 1 Align the screws in the red circle in Figure 1 with the plane of the lower shaft and tighten.



Step 2: Figure 2 Turn the hand wheel clockwise until the clutch is turned to the pinball position (there will be a sound when it is locked)



Step 3: Figure 3 The three screws at the arrow in the figure 3 can adjust the clutch resistance, so that it will not easily get out of position.

Steps for removing and installing the hook

Step 1: Take off the bobbin case and loosen the 3 screws of the bobbin cover.



Step 2: Position the shuttle bladder between the groove on the opposite side of the iron and the groove on the hook, and take out the shuttle bladder.



Step 3: Install the oil supply hole gasket.



Step 6: Reinstall the shuttle bladder cover and tighten the 3 screws of the cover.



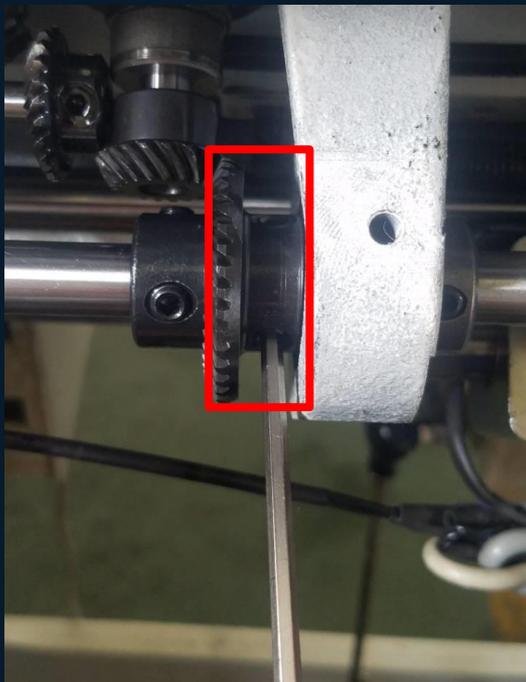
Step 5: Position the shuttle bladder at the position of the groove on the opposite side of the iron to the groove of the rotary hook, and put the shuttle bladder.



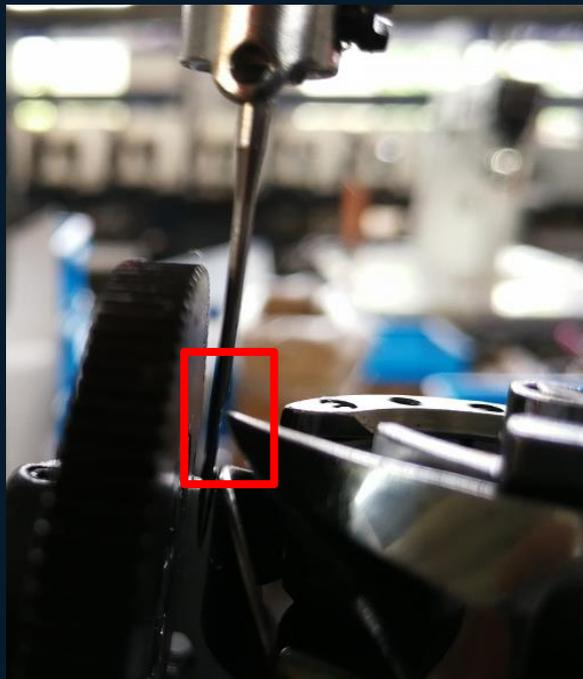
Step 4: Install the rotary hook and tighten the screws.



Needle bar height positioning adjustment



Step 1: Figure 1 First, loosen the transmission gear screw that adjusts the hook thread hooking time.



Step 2: Figure 2 When lowering the needle bar to the lowest point, turn the hook so that the tip of the hook and the needle are short



Step 3: The height of the needle bar can be determined by loosening the screw in Figure 3, moving the needle bar up and down and then tightening the screw. The distance between the single needle and the double needle from the needle plate is 24.5 and 23.5mm respectively.

Hook adjustment

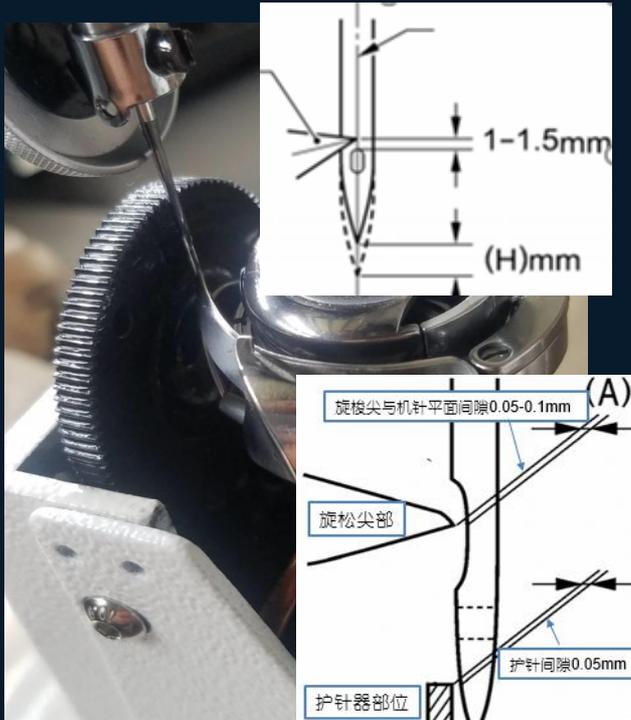
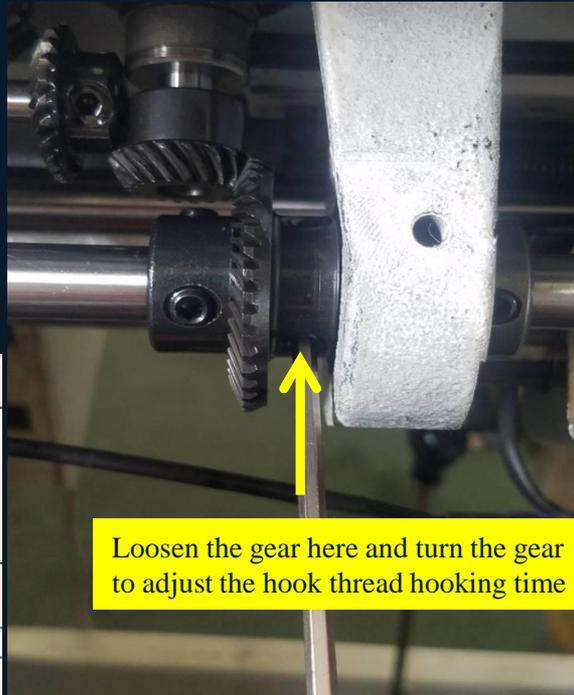
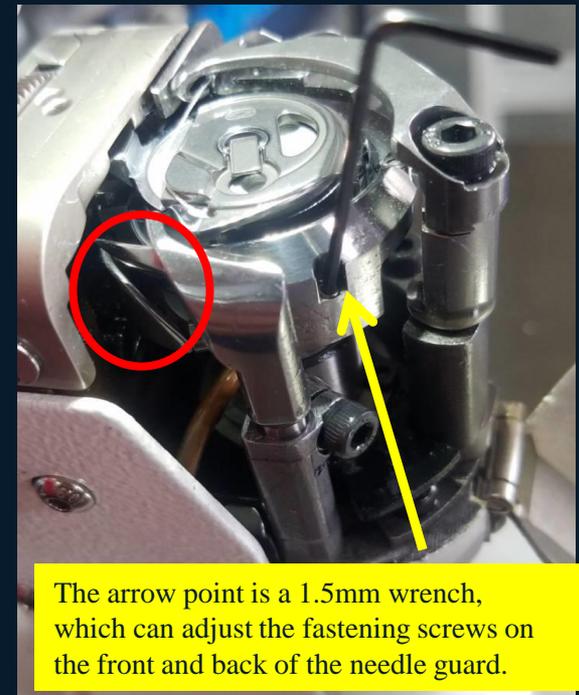


Figure 1. When the needle rises from the lowest point, the hook thread hooking time is about 1.5mm above the needle hole, and the gap between the hook tip and the short groove side of the needle is 0.05-0.1mm.



Loosen the gear here and turn the gear to adjust the hook thread hooking time

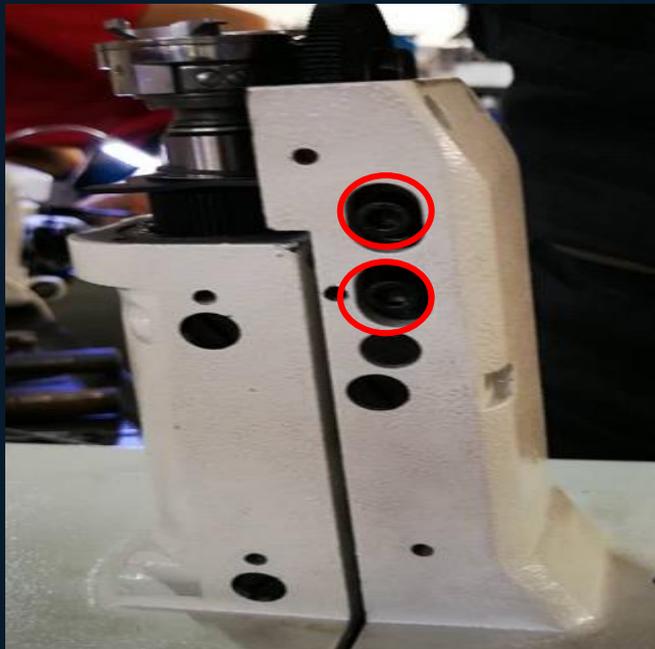
Figure 2. The hook thread hooking time can be adjusted at the arrow.



The arrow point is a 1.5mm wrench, which can adjust the fastening screws on the front and back of the needle guard.

Figure 3. The hook needle guard can be adjusted at the arrow, and the gap between the needle guard and the needle is 0.05-0.1mm.

Feeding golden wheel tooth height adjustment



Picture 1: Adjust the screw of the tooth height of the feeding wheel



Figure 2: The teeth of the feeding wheel are 0.8-1.0mm higher than the needle plate; for ultra-thin leather, the teeth of the feeding wheel are 0.3-0.5mm higher than the needle plate.

Loosening electromagnet mechanism (thread trimming)

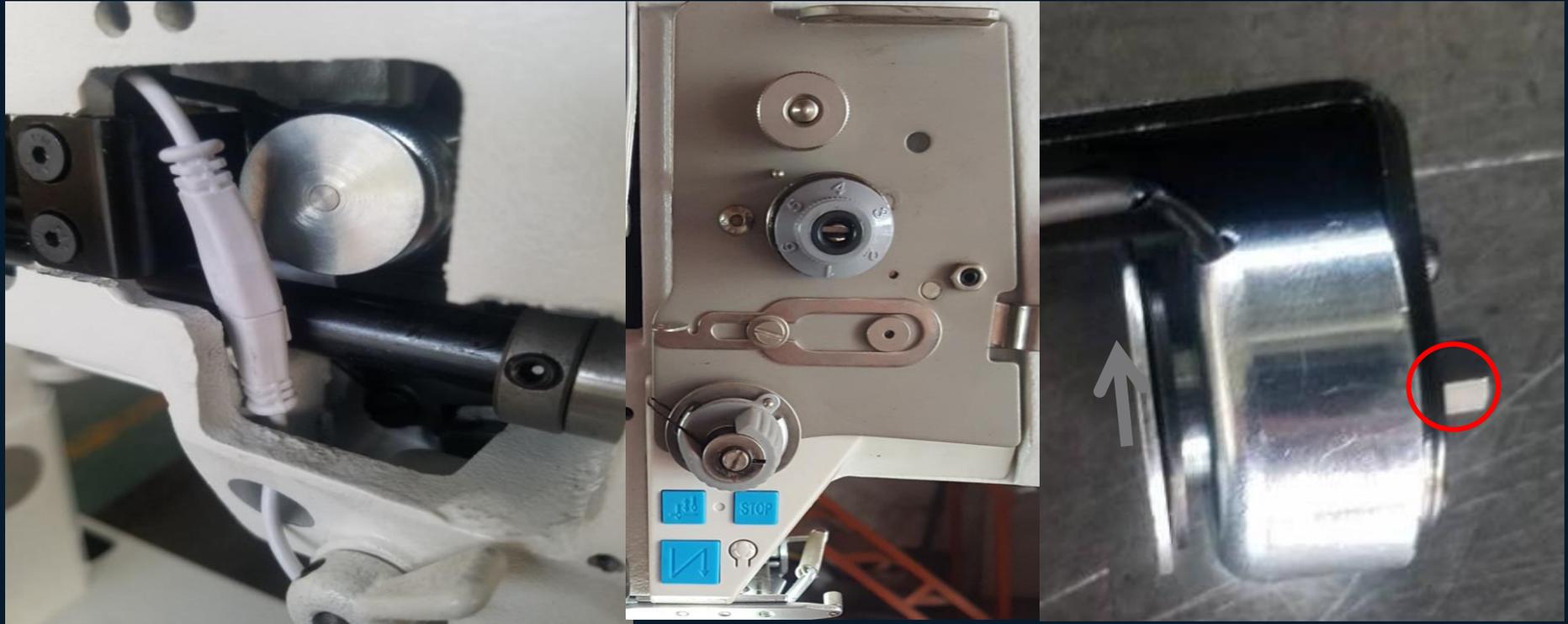


Figure 1 The installation of the loose wire electromagnet should have a pull-in action, and the front thread clamp can open about 2mm (small picture), and the action is smooth and no jams.

Figure 2 The working stroke of the loose wire electromagnet is 3mm, and the stroke gap can be adjusted at the mark in the red circle.

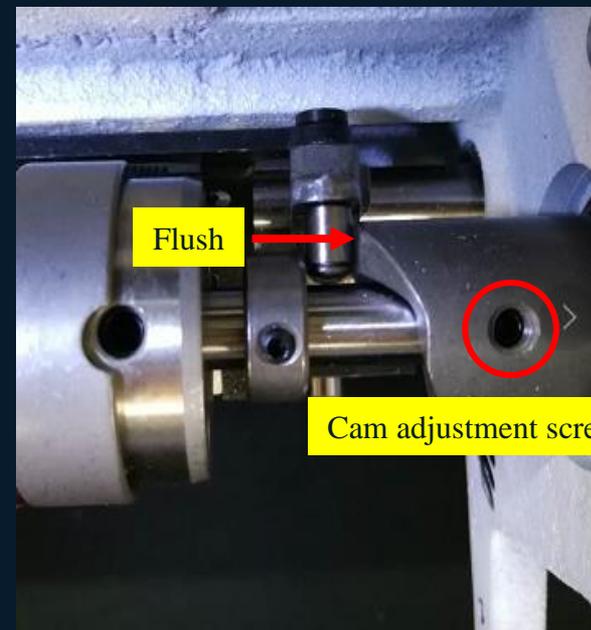
Upper positioning and trimming cam position adjustment (thread trimming)



Step 1: When the needle bar moves down, the highest point of the thread take-up lever.



Step 2: The distance between the needle tip and the needle plate is 8-12mm as the upper needle stop position. If there is an error, enter the P72 parameter to adjust the upper stop position.



Step 3: After adjusting the upper parking space, the highest point of the thread trimming cam (adjusted by two 3mm inner hexagonal fastening screws) is flush with the thread trimming drive roller. The clearance between the roller and the cam is 0.2mm.

Installation and adjustment of thread trimming seat mechanism



1 Fixed knife adjustment fixing screw, **2** Clamping piece clamping force adjustment fixing screw, **3** Moving knife fixing screw.

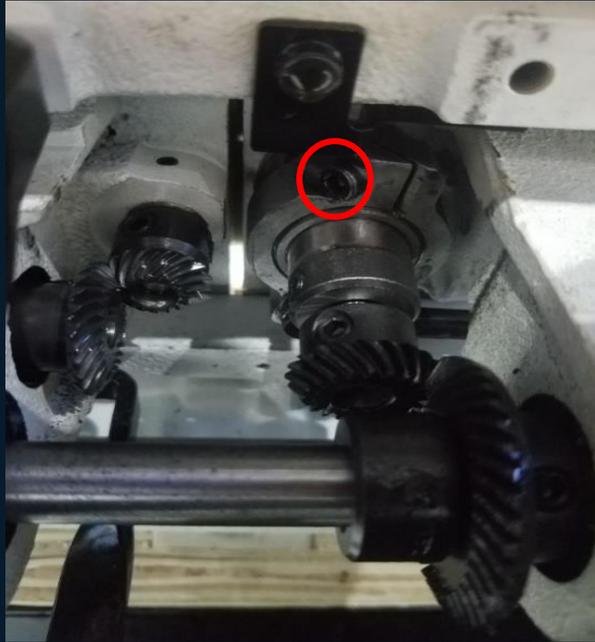


Step 2: Install the movable knife holder. The clearance between the movable knife swing gear and the rotary hook outer shaft gear is $\leq 0.1\text{mm}$, and it can swing freely without any stuck points.



Step 3: There are two 2mm screws at the arrow point to adjust the height of the movable knife. The distance between the lower plane of the movable knife and the upper surface of the bobbin case boss is 0.1mm, and the movable knife should not rub against the bobbin case when it moves.

Installation and adjustment of thread trimming seat mechanism



Step 4: Here you can adjust the front and rear positions of the movable knife to fix the screws.



Step 5: When the movable knife is at the thread trimming position, the amount of engagement between the movable knife tip and the fixed knife edge is 2-3mm.



Step 6: 1 The moving knife and the fixed knife tangent smoothly, and the pressure is as small as possible to complete the tangent action, and the tangent is neat. 2 The clamping piece is stable and reliable when clamping the wire.

Presser foot adjustment



Figure 1 Automatic presser foot lifting electromagnet installation, the distance between the solenoid plunger and the presser foot lifter is 1mm. The upper hole is for the automatic presser foot lifter, and the lower hole is for the knee lifter presser foot lifter.

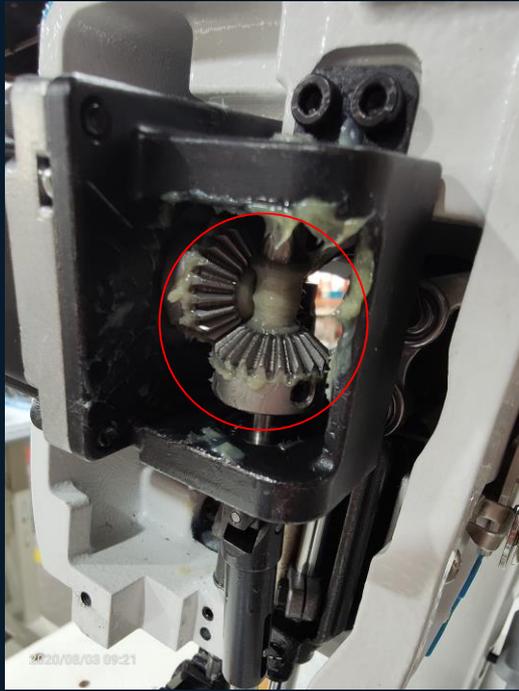


Figure 2 Height of presser foot lift: 6.5mm hand-held, 8.5mm automatic knee-rest 12mm.

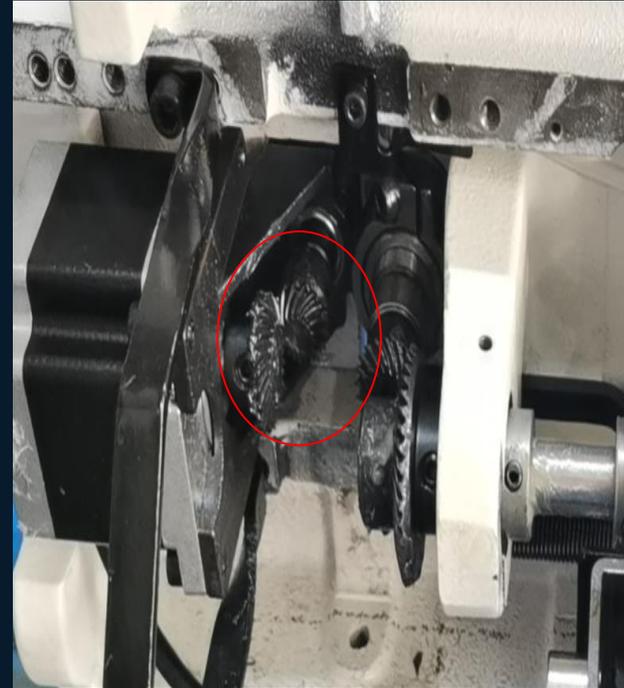


Figure 3 The left side of the adjusting screw for adjusting the height of the presser foot, and the right side is the adjusting screw for the lowest height of the presser foot.

Feed assembly



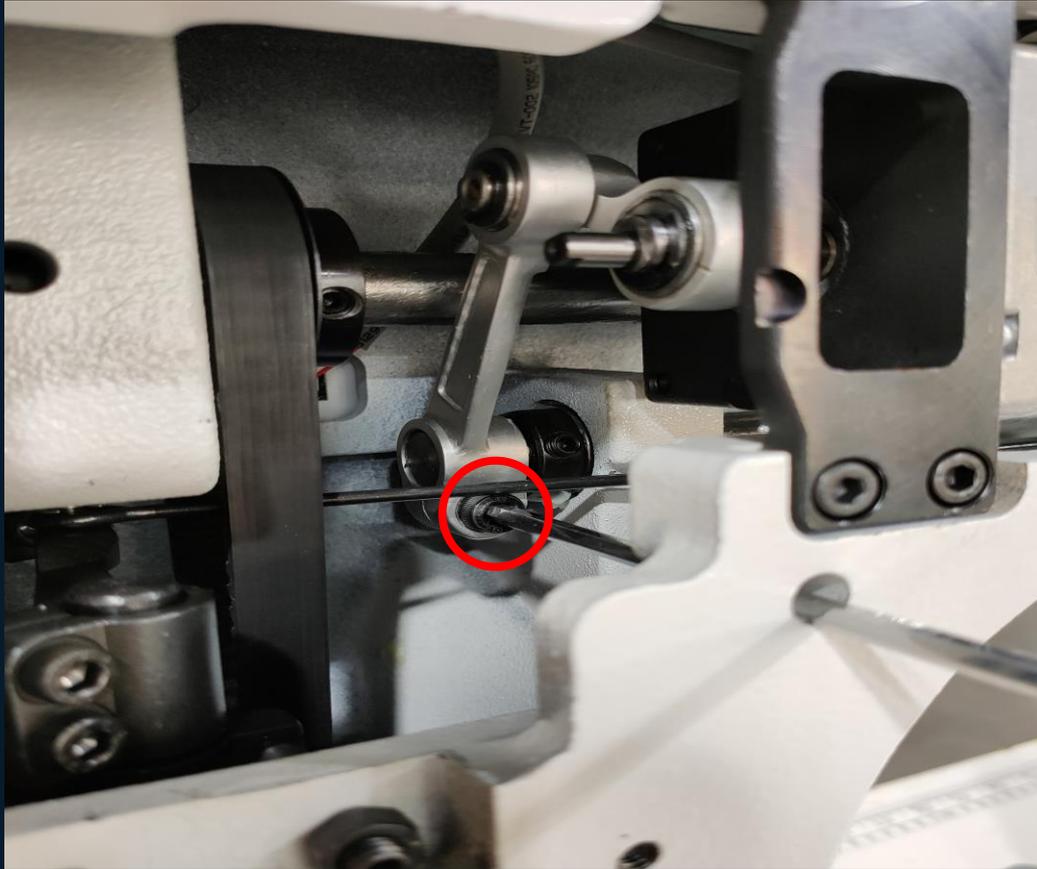
Upper
backstitch
assembly



Lower
backstitch
assembly

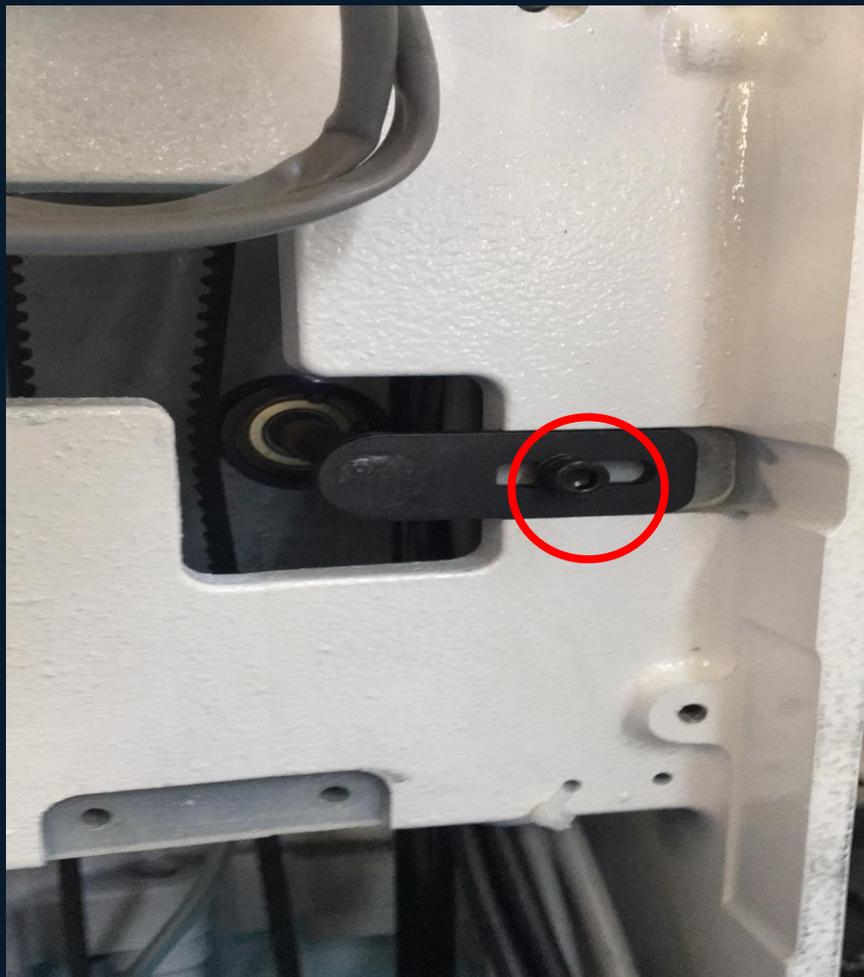
Adjust the clearance between the upper and lower transmission gears to be consistent without sticking point.

Needle bar swing position adjustment



Loosen the screws with a 5mm Allen wrench, move the needle to the middle of the needle plate hole, and do not touch the needle plate during the reverse sewing, and then tighten the screws.

Belt tightness adjustment



Loosen the hexagon screw in the red ring and move the tension pulley left and right to adjust the belt tension.