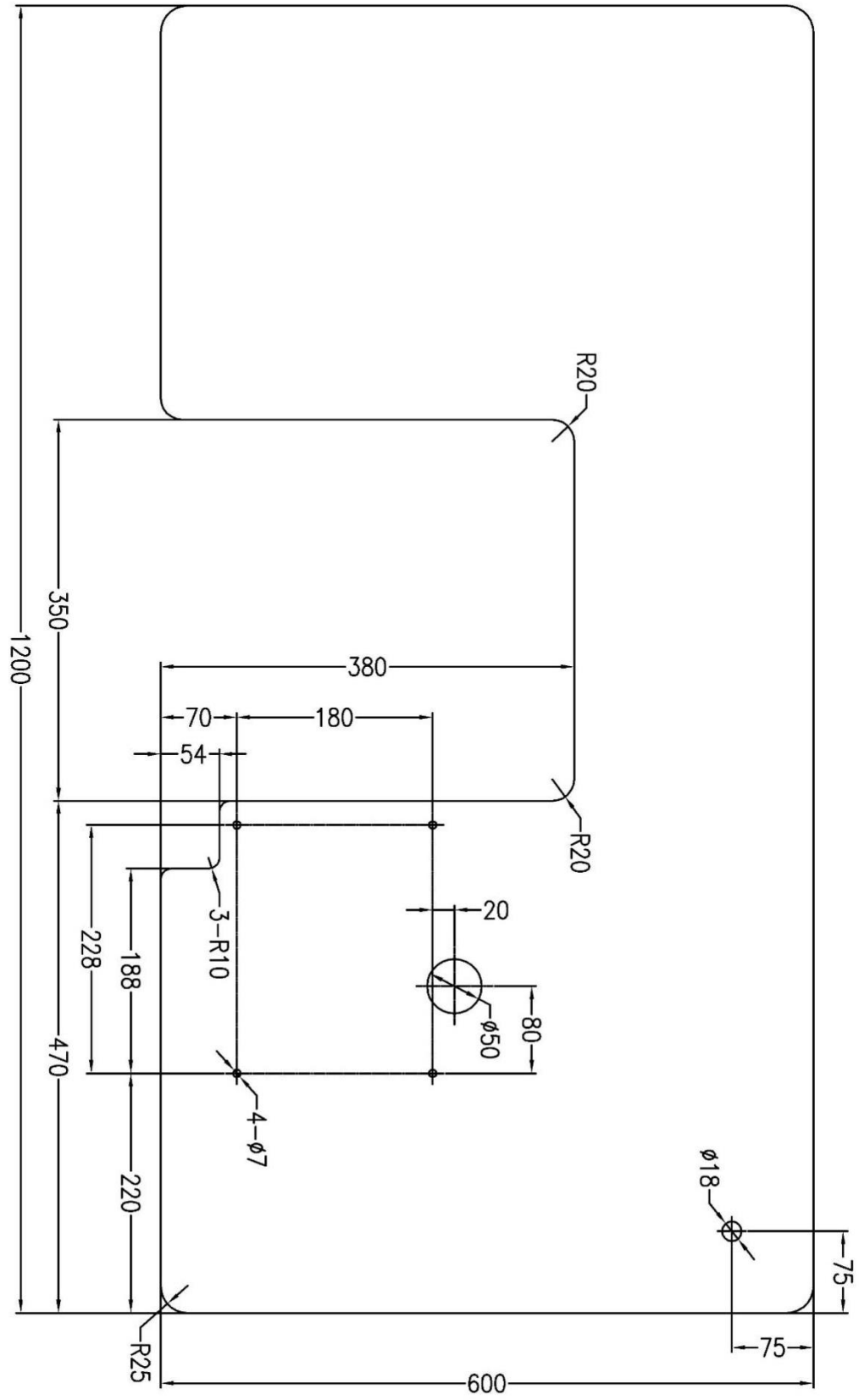


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# 1. Installation

## 1.1 Tabletop diagram

- Tabletop



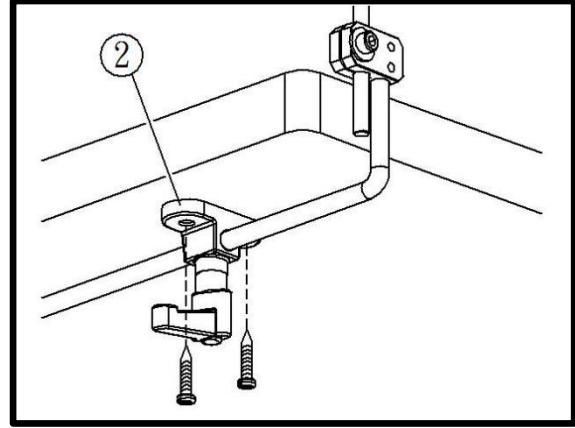
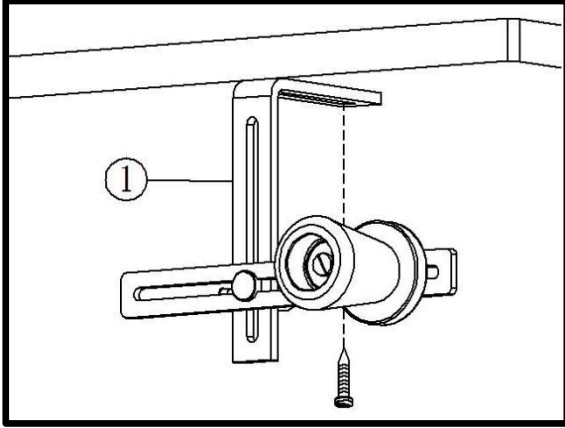
# 1. Installation

---

## 1.2 Roller

Fix the tension roller support set ① under the table.

Fix the bracket holder ② correctly under the table.



## 2.Sewing Speed

---

### 2.1 Sewing speed

The maximum sewing speed of the sewing machine is 5,000 rpm, with the commonly-used speed reaching 4,500 rpm.

When using a new sewing machine, operate it at the speed of about 4,000 rpm for the first 200 hours (about a month) to prolong the service life of the machine.

## 3. Operation Procedures

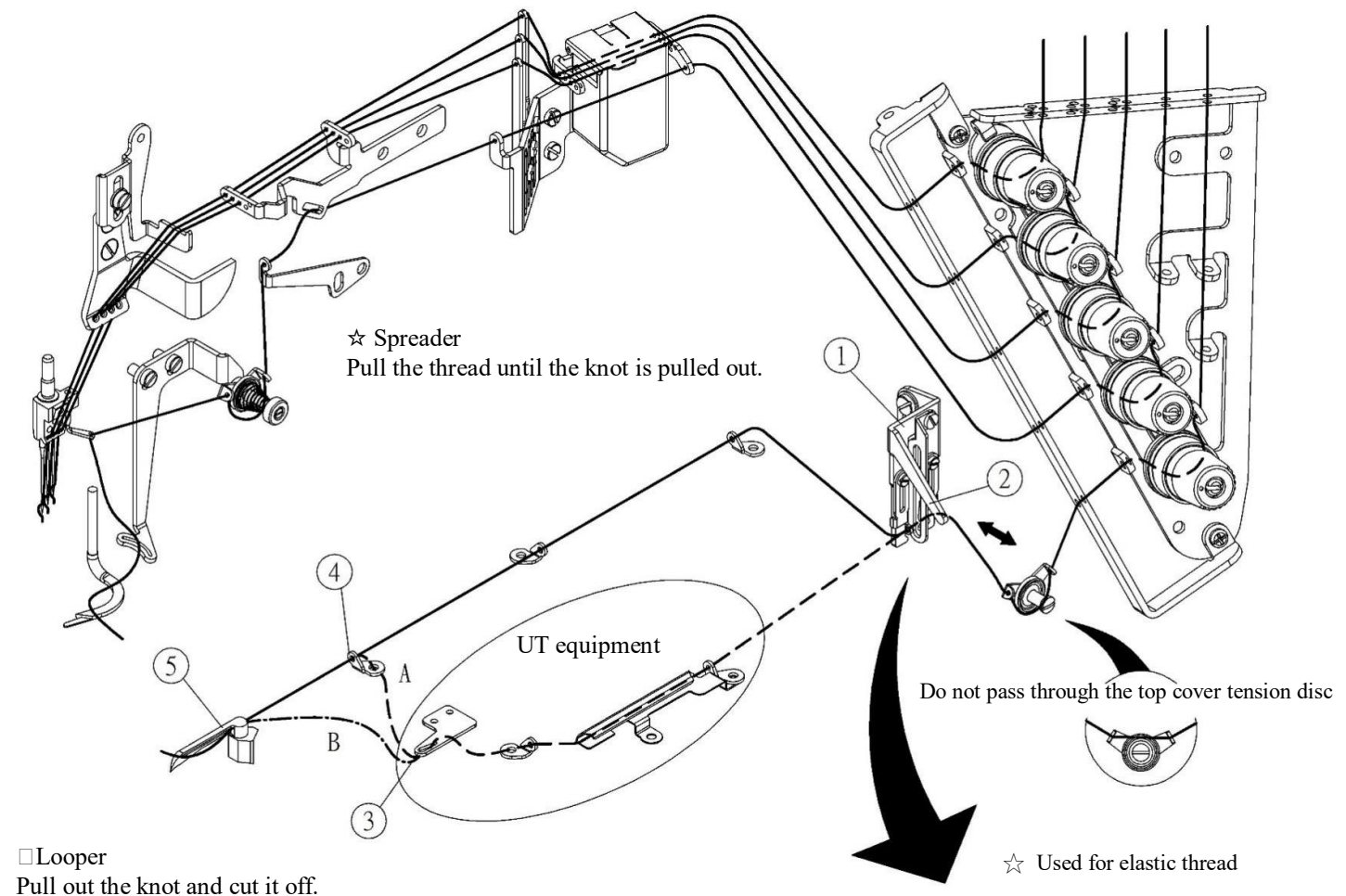
### 3.1 Threading

When not threaded, please refer to the following diagram to thread the machine.

When threaded, apply a new thread and tie a dead knot and pull the thread again.

☆ Needle thread: Pull the thread until it reaches the front of the needle. Then cut off the knot in front of the needle hole and re-thread the thread.

The correct threading method is to thread the left needle at the innermost position as shown in the diagram.



Note: Threading for sewing machines with UT equipment.

1. For standard type of thread, pass through the tension release block ④, then through the looper thread crossing hole (left) ③. (Thread A)
2. For cotton thread or fiber thread, pass through the tension release block ⑤, then through the Looper ③. (Thread B)

Note: To facilitate threading, please pull the lever ① of the thread take-up eyelet bracket ②. After threading, push the lever ② to return the thread take-up eyelet bracket ① to its original position.

## 3. Operation Procedures

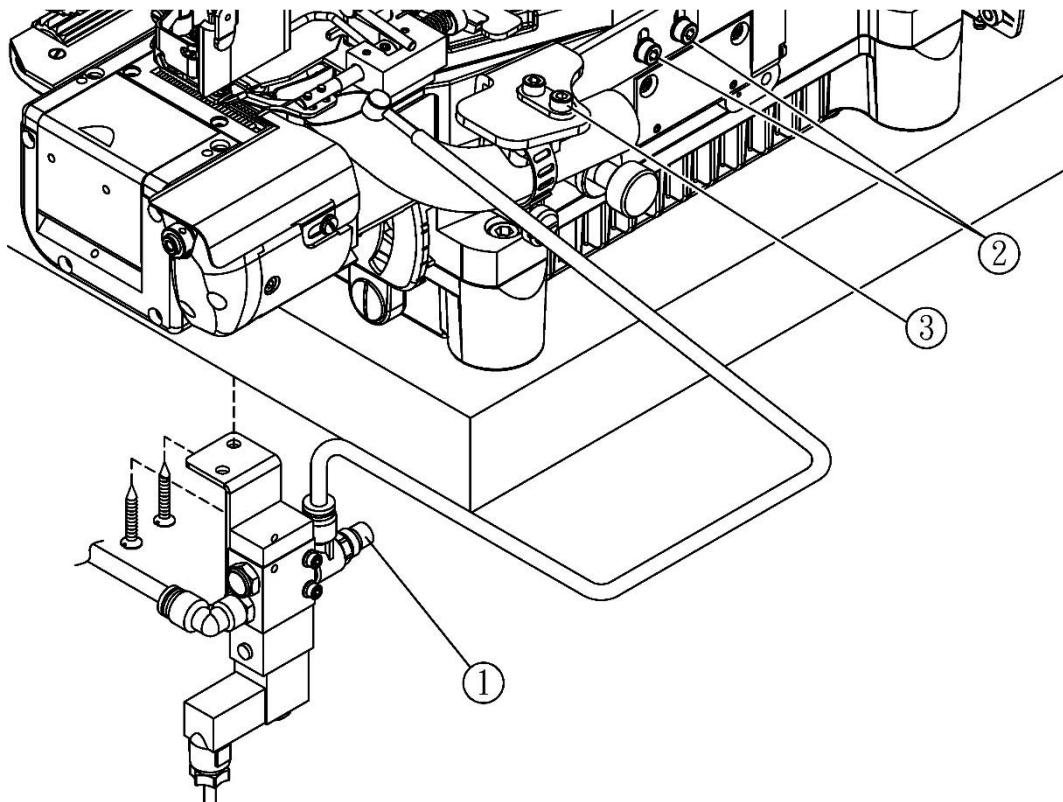
### 3.2 Adjustment of the suction pipe

The manual value ① on the solenoid can adjust the strength of the suction.

Reduce the pressure on the suction device to the minimum suction strength that can suck up the scraps.

Be aware of light fabric. If the suction pressure is too high, it may suck in the main fabric.

After changing the trim strip width, it's necessary to loosen the screw ② and screw ③ to adjust the location of suction pipe.



## 4. Adjustment of Devices

### ! Warning !

Before adjustment, be sure to turn off the power and check if the machine has stopped running.

### 4.1 Stitch tension

#### Stitch hole position:

The standard position of each stitch hole is shown in the figure.

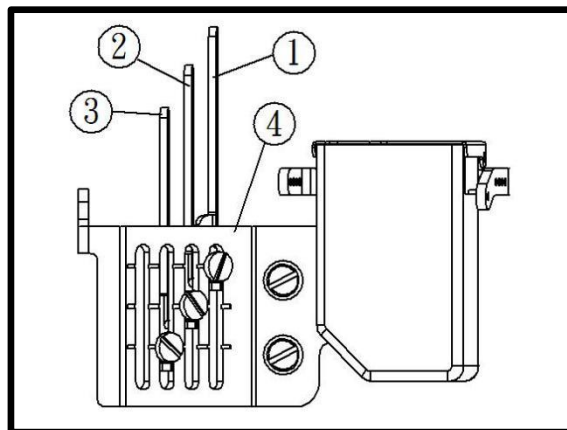
Pay attention to align the center of the screw with the stitch hole holder □.

Right stitch hole □: Top thread.

Middle stitch hole □: center line.

Left needle thread hole □: Bottom thread.

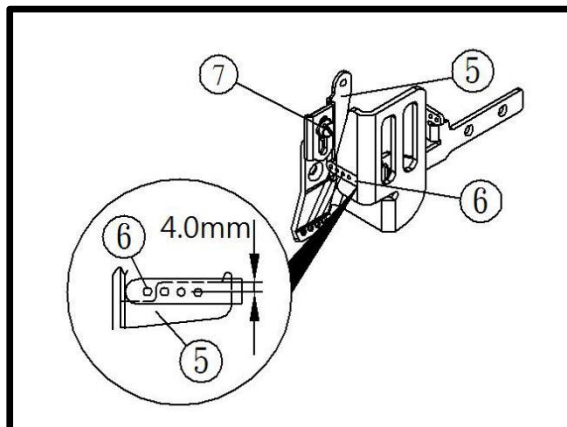
- To tighten the needle thread, raise the needle thread hole.
- To loosen the needle thread, lower the needle thread hole.



#### Stitch top piece:

When the thread picker take-up □ is at the bottom, the standard position is 4.0mm from the center of the thread hole of the thread picker take-up □ to the top of the stitch top piece □.

- To increase the thread loop or to use a retractable thread, loosen the screw □ and raise the thread top □.
- To reduce the needle loop, loosen the screw □ and lower the top piece of the needle thread □.

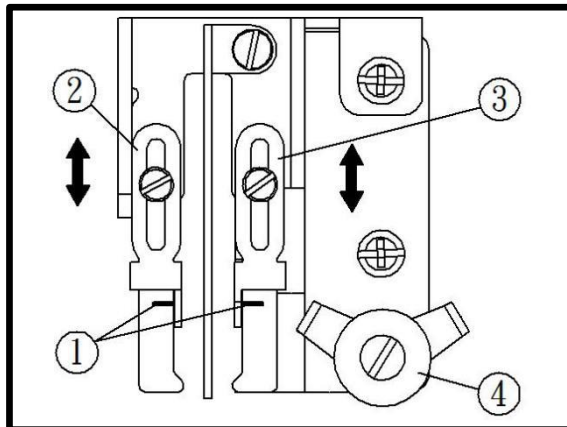


### 4.2 Looper thread tension

Align the lead hole (left) □ and (right) □ with the marker line □ on the lead hole holder as a standard.

Loosen the threads of the two lead holes for adjustment.

- Tighten the looper thread tension and raise the thread holes (left) □ and (right) □.
- Loosen the looper thread tension and lower the thread holes (left) □ and (right) □.

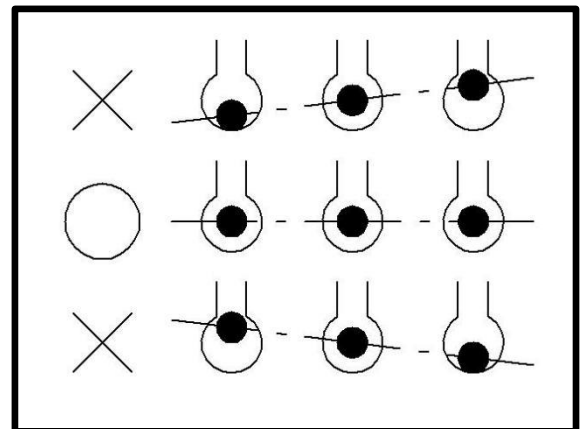
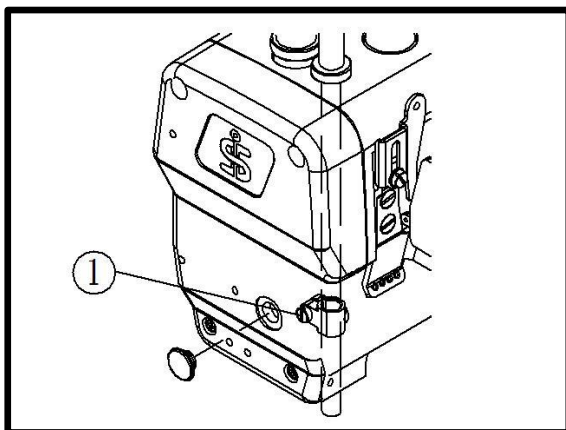
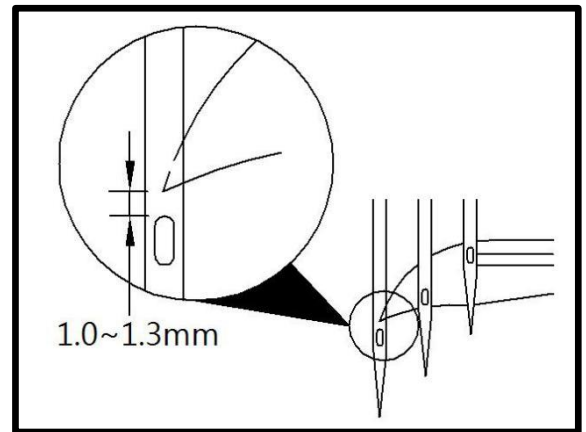


Note: When using an elastic thread, move the thread guide holes □ and □ to the lowest point and do not pass through the top cover tension plate □.

## 4. Adjustment of Devices

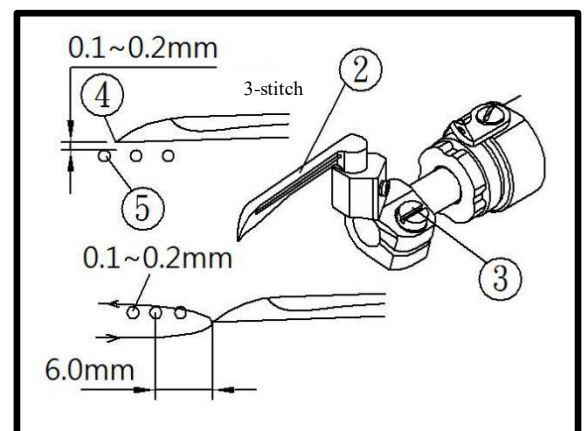
### 4.3 Needle height

- (1) Attach the needle to the left hole of the needle clamp.
- (2) Check that the looper is fully inserted in the looper holder.
- (3) Turn the handwheel until the needle tip and the center of the left needle meet.
- (4) Loosen the screw □ on the needle bar holder and move the needle bar up and down so that the tip of the looper is 1.0 mm to 1.3 mm above the top of the needle eye.
- (5) Tighten the screw □ and check that the needle falls in the center of the needle hole of the stitch plate.



### 4.4 Front and rear position of needle and looper

- (1) Turn the hand wheel until the tip of the looper □ moves to the center of the left needle □.
- (2) Loosen the screw □ and move the looper so that the distance between the back of the left needle □ and the tip of the looper is 0.1 mm to 0.2 mm. Then tighten the screw □.



Note: After tightening the screws □, the positions of the front and back of the looper may move. Check the position again after tightening.

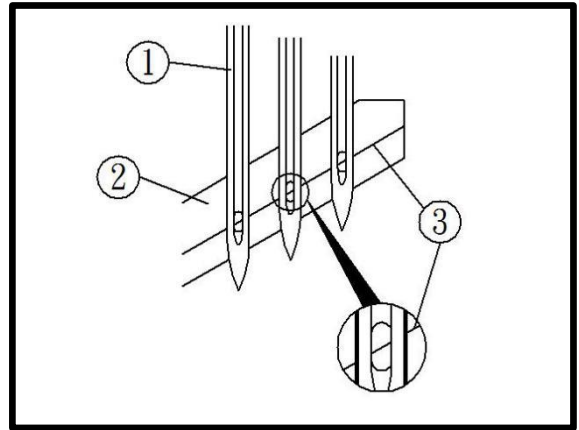


## 4. Adjustment of Devices

### 4.5 Needle and needle guard (rear)

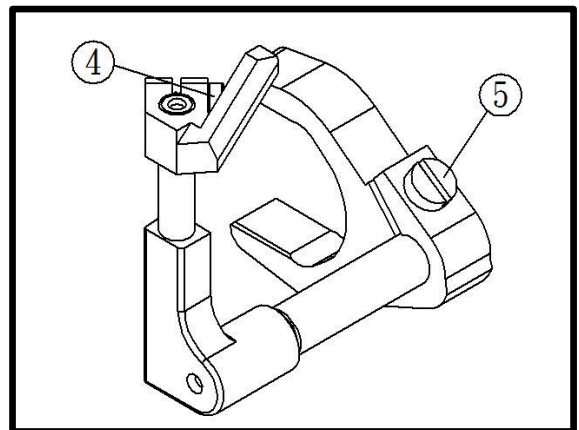
#### □ Needle guard (rear) height

- (1) Turn the hand wheel until the needle is lowered to the lowest point.
- (2) Loosen the screws □.
- (3) Adjust the needle guard (rear) ② so that the line ③ of the needle guard (rear) is aligned with the center of each needle hole.
- (4) Temporarily tighten the screws □.



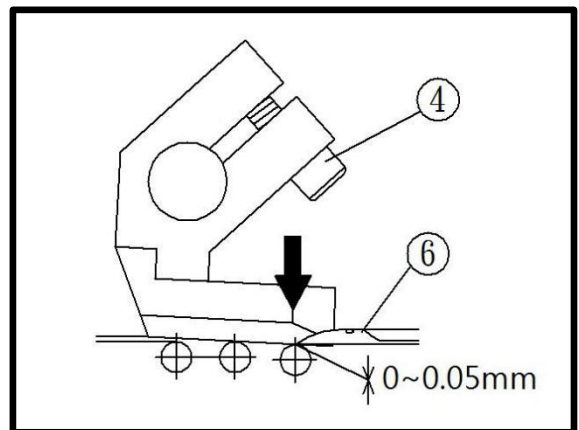
☆ Loosen screws 4 and 5 to adjust the position and angle between the needle guard (rear) and the needle, while maintaining the following three conditions.

- (1) When the looper ⑥ moves from right to left, the looper tip ⑥ passes through the rear of each needle, the needle guard (rear) pushes the right needle, so that the gap between them is 0~0.05mm.

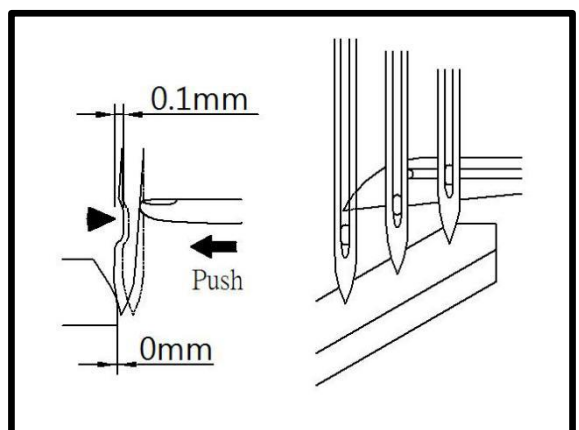
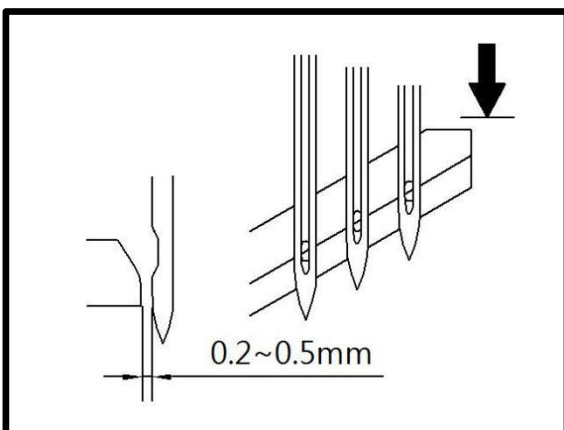


- (2) Turn the handwheel, align the upper needle bar of the left needle with the line on the needle guard (rear), so that the gap between them is 0.2~0.5mm

- (3) When the looper tip ⑥ comes to the center of the left needle, check whether the gap between the left needle and the needle guard (rear) is 0~0.05mm. At this point, the gap between the looper and left needle is 0~0.05mm.



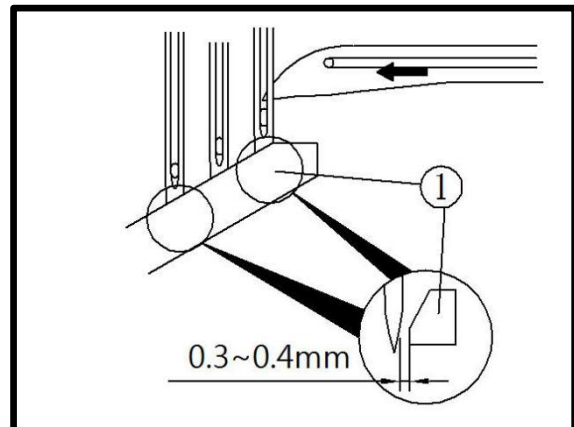
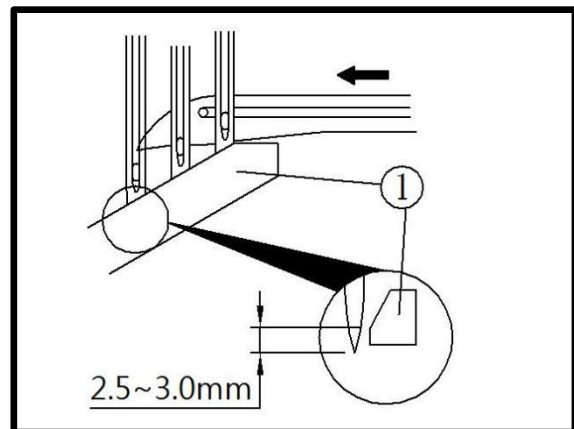
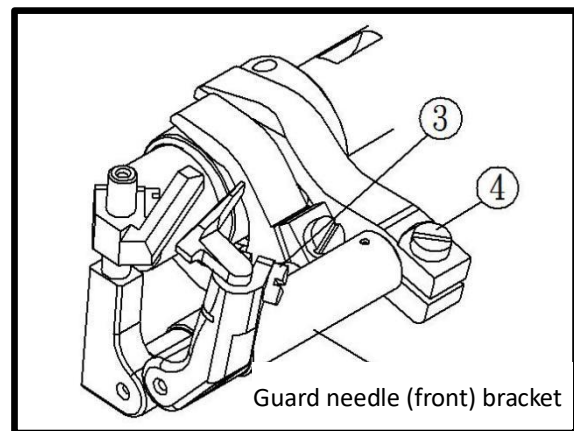
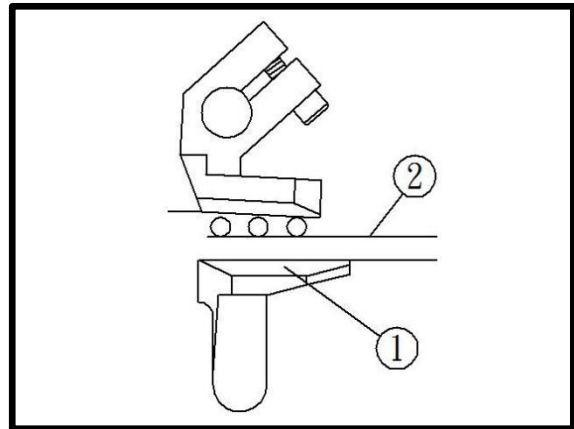
After the adjustment, tighten the screws ④ and ⑤.



## 4. Adjustment of Devices

### 4.6 Needle and needle guard (front)

- (1) Loosen the screw □ when the looper tip enters the center of the right needle. Looking down from the top, place the thimble piecenedeedle guard (front) □ parallel to the alignment line □ and temporarily tighten the screw □.
- (2) Turn the handwheel clockwise until the looper tip enters the center of the left needle.
- (3) Loosen screw 3 and adjust the needle guard (front) □ so that the needle tip is 2.5~3.0mm below the tangent of the needle guard (front) □.
- (4) Tighten the screws □
- (5) Loosen the screws ③ and ④. Make the gap between the top needle guard(front) ① and the right and left needles 0.3~0.4mm.
- (6) Tighten the screws ③and ④.



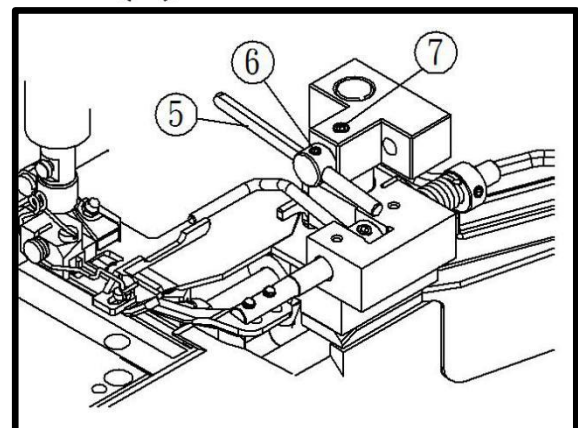
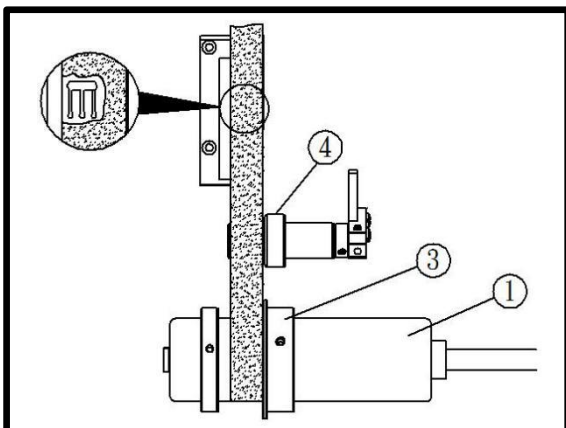
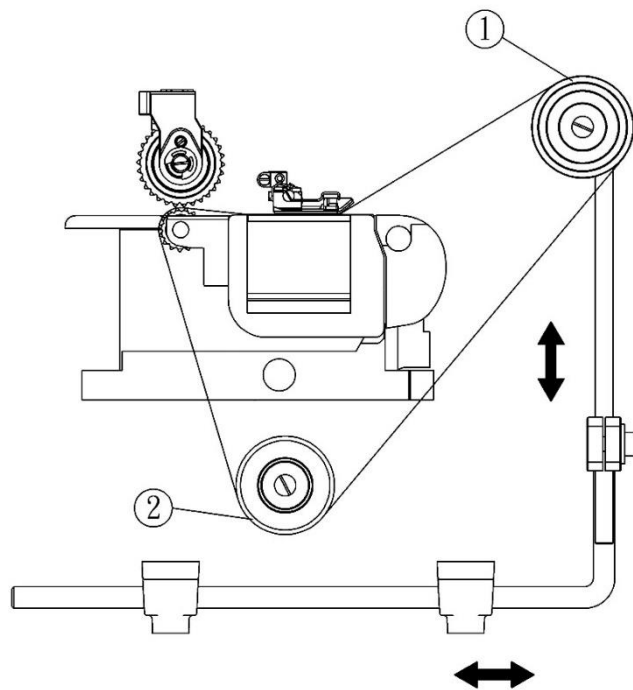
## 4. Adjustment of Devices

! Warning !

Before adjustment, be sure to turn off the power and check if the machine has stopped running.

### 4.7 Adjustment of roller

- Adjust the position of the front roller① and tension roller② of the elastic band according to the size of the fabric to be sewn.
- Either the front roller① or tension roller② can be adjusted front and back, either way. The standard position of the front roller must be higher than the stitch plate.
- The left and right positions of the elastic band are set to the right side of the elastic band leaning against the edge guide③ of the elastic band of the front roller① and the locating ring④ of the small roller. The left end of the elastic band will be slightly to the left of the leftmost needle.
- Attach the elastic guider⑤ to the right side of the elastic band and place the guider⑤ as close to the presser foot as possible without touching it.  
When adjusting, loosen screws⑥ and ⑦.

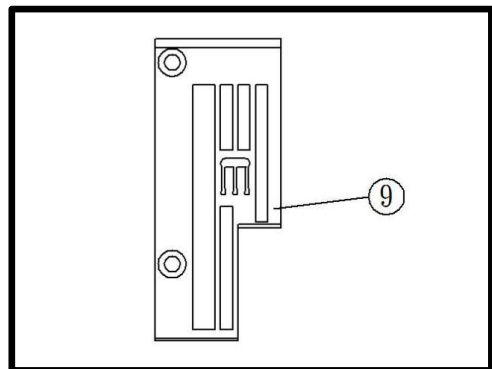
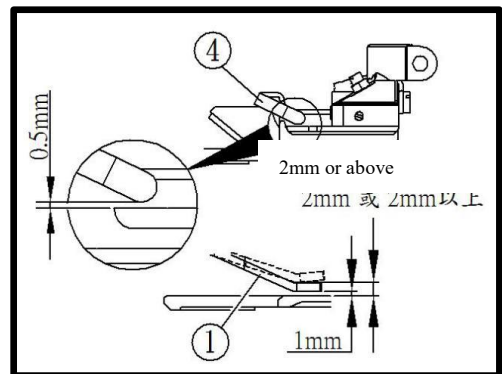
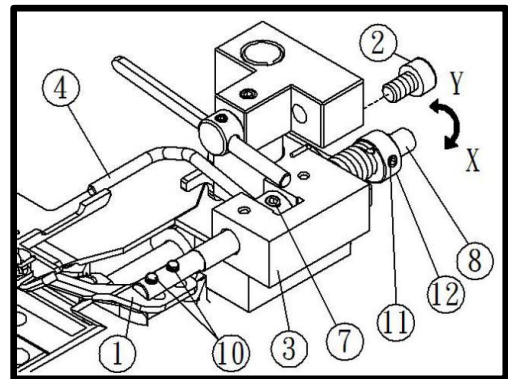


## 4. Adjustment of Devices

### 4.8 Adjustment of fabric presser

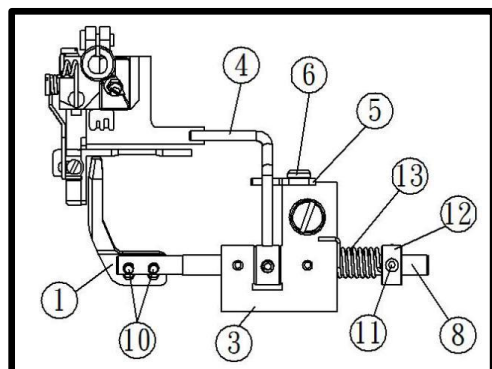
#### Height of fabric presser

- (1) Loosen the screw ② to adjust the height of the fabric presser bracket ③. When the feeddogs are at the highest point, the bottom of the fabric presser ① will touch the feeddogs lightly and parallel to the top of the feeddogs.
- (2) When the feeddogs' stroke is at the maximum point, the elastic band is placed under the presser foot, and there is a gap of 0.5mm between the right top surface of presser foot and the guide bar ④ of fabric presser. Loosen the screw ⑥ of guide bar stop plate ⑤ to adjust.
- (3) After removing the elastic band, the distance between the bottom of the fabric presser and the top surface of the stitch plate is 1.0mm. Loosen the screw ⑦ on the guide bar of the fabric presser and turn the driving shaft ⑧ of the fabric presser to adjust it.
- (4) When lifting the presser foot with the needle bar at the highest point, confirm that there is a gap of more than 2.0mm between the fabric presser and the top of the feeddogs.



#### Front, back, left and right position of fabric presser plate

- (1) Loosen the screw ⑩ and align the end of the fabric presser ① with the front end of the stitch plate ⑨.
- (2) The left and right ends of the fabric presser ① should be located above the differential feeddogs and as close to the upper knife as possible. Loosen the screws ⑦ and ⑪ and then move the driving shaft ⑧ of fabric presser left and right ⑧ to adjust.



#### Pressure of fabric presser

Loosen the screw ⑪ on the collar ⑫ and turn the collar ⑫ in the arrow X direction to increase the pressure.

Turn the collar ⑫ in the arrow Y direction to decrease the pressure.

Keep the spring ⑬ pressure to a minimum to avoid too much noise.

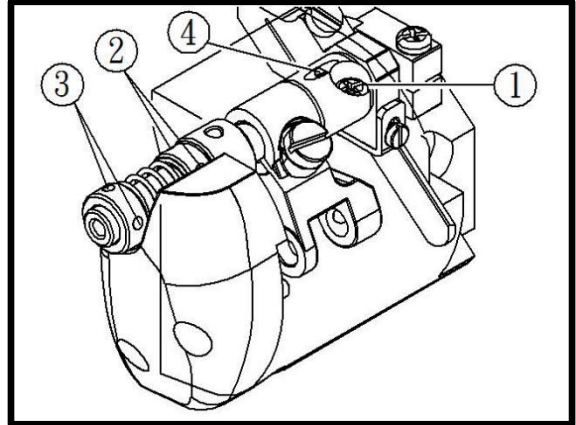
## 5. Adjustment of Knife Mechanism

**! Warning !**

Before adjustment, be sure to turn off the power and check if the machine has stopped running.

### 5.1 Trim strip width (fabric cutting position)

- (1) Remove the elastic band guide.
- (2) Loosen the screw ① of lower knife holder.
- (3) Loosen the screw ② of collar (right).
- (4) Set the knife holder in the required position according to the trim strip width.
- (5) Tighten the screw ① of knife holder.
- (6) Loosen the screw ③ of collar (left) and push the collar laterally to apply appropriate spring pressure to tighten the screw ③ of collar (left).
- (7) Tighten the screw ② of collar.

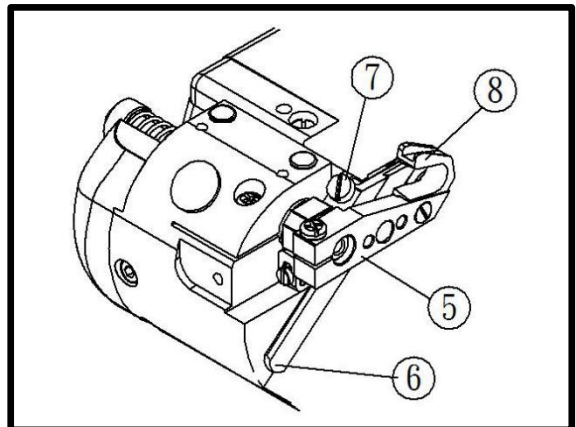


Note: regular supplement oil to oilhole ④.

### 5.2 Removal and installation of lower knife

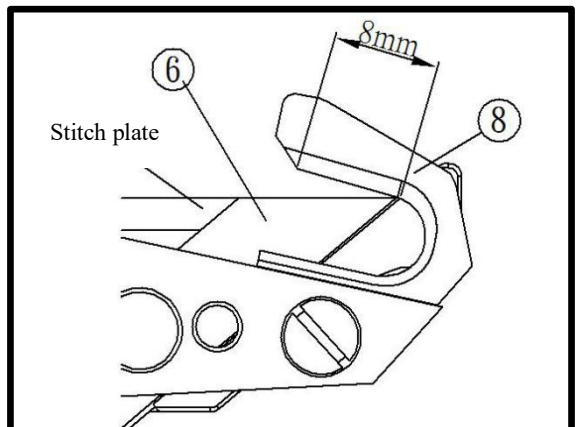
Remove the lower knife

- (1) Remove the elastic band guide.
- (2) Loosen the screw ② of collar (right).
- (3) Pull up the knife holder ⑤ to the right to leave space between the upper and lower knife.
- (4) Temporarily tighten the screw ② of collar (right).
- (5) Loosen the screw ⑦ of lower knife and take down the lower knife ⑥.



Install the lower knife

- (1) Align the cutting edge of the lower knife ⑥ with the top surface of the stitch plate, and then lock the screw ⑦.
- (2) Loosen the screw ② of collar (right).
- (3) Place a thread between the upper and lower knife and manually turn the equipment to check the sharpness of the knife.
- (4) When the upper knife is opened to the maximum, the top of the lower knife ⑥ and the tip of the upper knife ⑧ shall have a distance of 8.0mm, and then tighten the screw ②.
- (5) Check the sharpness of the knife again.



## 5. Adjustment of Knife Mechanism

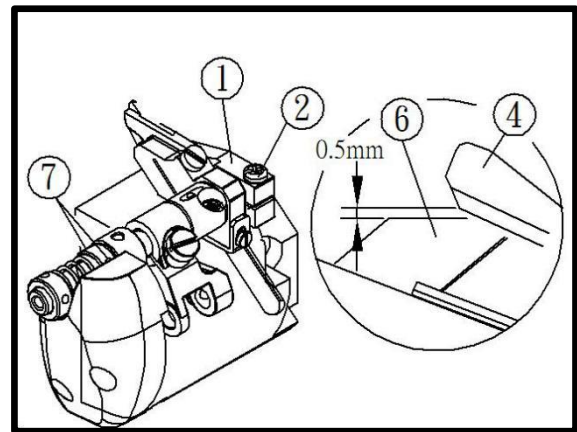
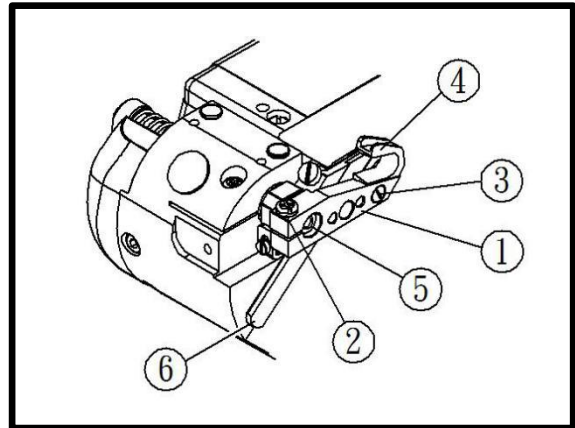
### 5.3 Removal and installation of upper knife

Remove the upper knife:

- (1) Loosen the screw ② of the upper knife holder and remove the upper knife holder ①.
- (2) Loosen the screw ③ of upper knife and remove the upper knife ④.

Install upper knife:

- (1) Fix the upper knife ④ to the upper knife holder ① with screw ③.
- (2) Align the right side of the upper knife ④ with the right end face of the upper knife shaft ⑤, and then temporarily tighten the screw ②.
- (3) When the upper knife ④ is in the lowest position, move the upper knife holder ① and leave a 0.5mm gap between the upper knife tip and the top of the lower knife ⑥, and then tighten the screw ②.
- (4) Loosen the screw ⑦ of the collar (right), so that the upper knife ④ and the lower knife ⑥ mesh with each other under the spring pressure.
- (5) Set a line between the upper knife ④ and the lower knife ⑥ and manually rotate the equipment to check the sharpness of the knife.
- (6) Tighten the screw ⑦ of collar (right).
- (7) Check the sharpness of the knife again.



### 5.4 Knife sharpening

If the knife is badly worn, resharpen the lower knife ⑥.

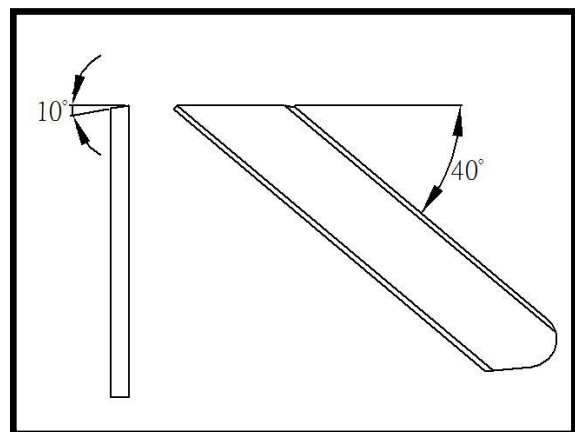
Prepare cold water and resharpen the lower knife while keeping it cool.

Readjust the correct angle as shown in the picture.

Note:

It's impossible for the ordinary sharpening machine to resharpen the upper knife made of superhard alloy.

Please contact us or the distributor to resharpen it.



## 6. Specifications

Model	MU 735
Descriptions	High-speed Cylinder-bed 3-needle, 5-thread Interlock Sewing Machine with Right Trimming Mechanism
Dimensions	L 445mm x W 220mm x H 405mm
Working Space	Circumference 370 mm
Weight	45kg
Application	For attaching the elastic band intended to be sealed to the fabric (width available for sewing elastic band: a maximum of 35mm)
Sewing Speed	Max.5000rpm
Stitch Distance	1.4mm-3.6mm 7 to 18 stitches per inch; 8-21 stitches per 30mm
Needle Type	UY x 128GAS #9-#14(Standard:#10)
Needle Distance	Three needles: : 4.8mm, 5.6mm, 6.4mm (Two needles: 2mm, 4.0mm)
Stitch Stroke	31mm
Lifting Presser Foot	5.6mm stitch length with trim line: 5.5mm, without trim line: 7.0mm
Feeding Method	Adjusting screw (fine adjustment)
Differential Ratio	Standard: 1:0.9 – 1:1.4 1:0.9 – 1:1.8 (for normal differential stitch lengths up to 2.5mm or less) 1:0.6 – 1:1.1 (adjustable by changing the position of the feed rod connection)
Differential Feed Adjustment	Fine adjustment of the regulator can be adjusted by moving the external lever even during operation
Lubrication	Automatic lubrication of oil pump
Lubrication oil	OIL No.22
Oil Tank Capacity	800 cc
Installation Form	Table installation