

USER'S MANUAL

ESQ-C



Foreword

This user's manual describes about the correct using method and instructions for use of this product. Please use this machine after understanding the contents of the manual.

This manual may contain discrepancies in detailed specification as compared with the actual production. If you have any question about this manual, consult your TAJIMA distributor.

We believe that "BASICS TAJIMA EMBROIDERY MACHINES" and "MACHINE SETUP INSTRUCTIONS" are useful to deepen your knowledge about this product. Please also read those booklets.

Regarding how to handle the products related, refer to the user's manual exclusive for them included in the manual CD.

TISM Co.,Ltd.

SAFETY PRECAUTIONS

To prevent any harm or damage to the person who use this product or other person, we describe items that must be surely followed as below.



Indicates that there is a lot of danger of death or serious injuries [*1] if handled by mistake.




Indicates that there is a likelihood of death or serious injuries [*1] if handled by mistake.





Indicates a potentially hazardous situation which may result in minor or moderate injury [*2] or property damage if handled by mistake.

*1: A condition caused by electric shock, injury, fracture of a bone, etc., that leads to aftereffects, or an injury that necessitates hospitalization or visits to a hospital over a long period.

*2: An injury that does not necessitate hospitalization or visit to a hospital over a long period.

 : Prohibited items

 : Items that may cause electric shock if not observed

 : Items that must be followed carefully to ensure safe operation

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Chapter 1 Outline of the device

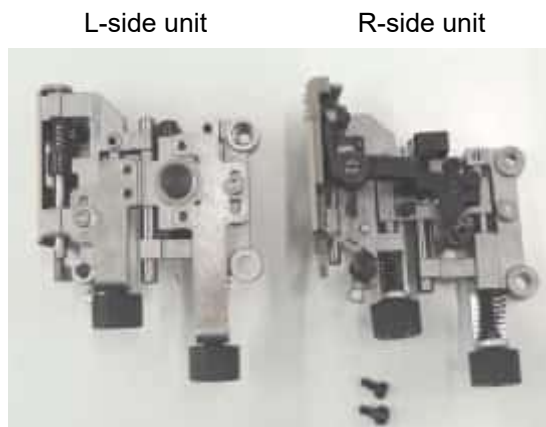
1. Instructions for use

CAUTION

-  Do not change the frame spec. that is set at shipment. If this is changed, troubles such as no actuation, malfunctioning of the device, etc. will occur.
-  When turning ON the power or performing Color change of the needle bar, do not put your hands, etc. near the needle or on the machine table. You could be injured by moving up the device.
-  When you perform other works than those described in "Setting · operating instructions" in this user's manual, turn "OFF" the power switch. Performing works with the power switch turned "ON" could cause unexpected malfunctioning of the machine and you could be injured.
-  When you use sequin device, embroidery space will be limited. Before performing embroidery, keep this device raised, then check embroidery space by "Trace" operation to confirm that this device does not hit the frame.
-  To perform color changing automatically, it is necessary to use data made of TAJIMA binary format (TBF) including sequin output 2 code.
-  When you perform threading, replacement of material (Sequin) or other adjustment, pay attention to the protruding parts of the device because your face or head comes in contact with the protruding parts and you could be injured.

2. Attaching the L-side unit and the R-side unit

In some models, the L-side unit and the R-side unit are packed separately at shipment from the factory. In this case, attach them to ESQ-C in the following steps.



Stepped screw M3*6



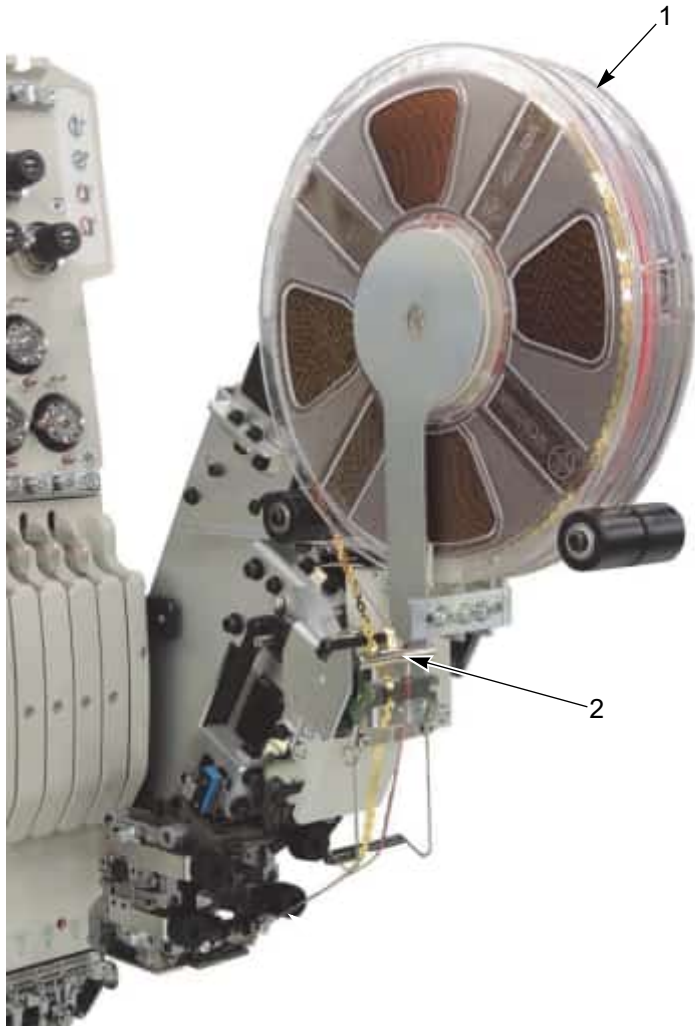
(1) Fit the L-side unit to the straight pin.



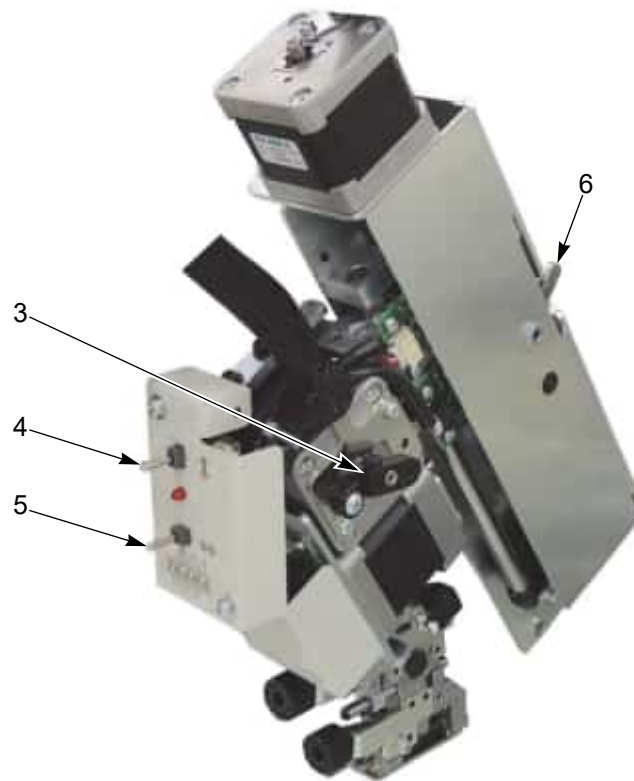
(2) Fix it with the stepped screw.
Attach the R-side unit in the same manner.

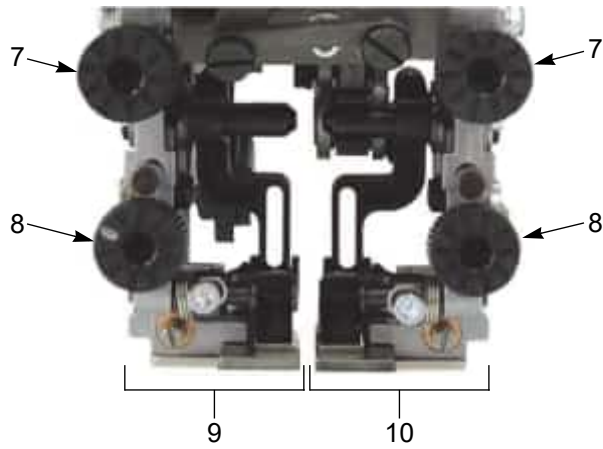
3. Name of each part

3-1. Device main body

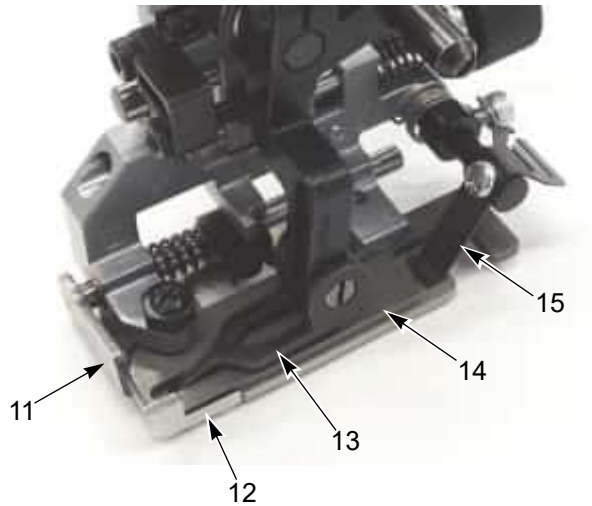


1. Sequin reel (→ p.18)
2. Material run-out detector (option)
3. Sequin lever
4. Up/down switch (→ p.25)
5. Color change switch (→ p.28)
6. Intermediate stop lever (→ p.11)

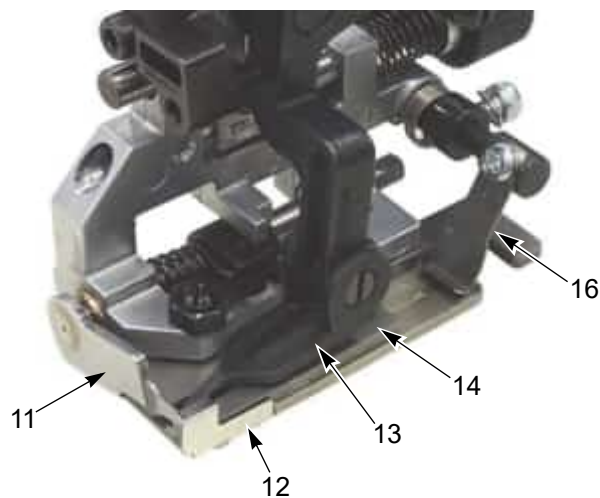




[Sequin specification]



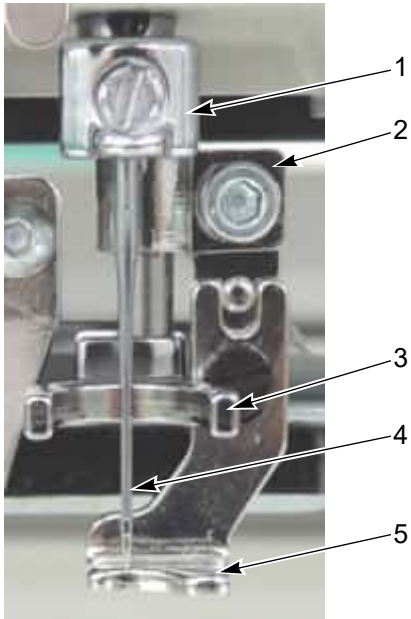
[Beads cord specification]



- 7. Needle locating position (back and forth) adjusting knob (→ p.33)
- 8. Sequin cut position adjusting knob (→ p.29)
- 9. L side unit
- 10. R side unit
- 11. Movable knife (→ p.38)
- 12. Movable knife guard (→ p.73)
- 13. Sequin feed
- 14. Sequin guide (→ p.7)
- 15. Pressure guide plate spring (→ p.74)
- 16. Presser plate spring (→ p.74)

The difference between sequin specifications and beads code specifications is part 15 and 16.

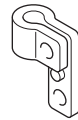
3-2. Surrounding needle (TMCR-VF, TMAR-KC TYPE-2, TMEZ-SC, TMEZ-KC)



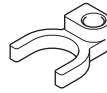
1. Sequin needle clamp



2. Sequin presser foot base



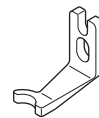
3. Movable knife presser



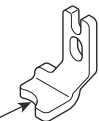
4. Exclusive needle for 2 mm sequins (DB-K5SS#65/9)



5. Sequin presser foot



2 to 4 mm sequins



Sequins of 7 mm or less

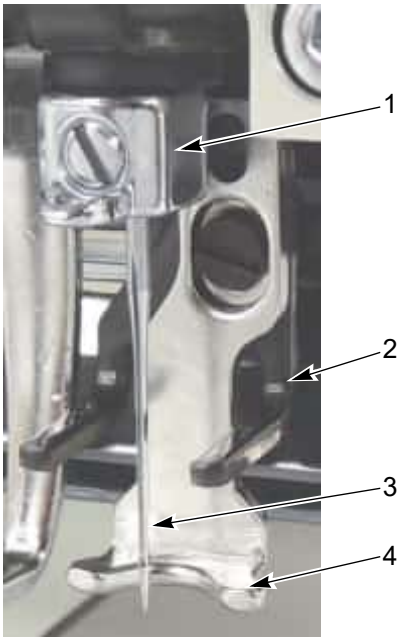
Radius 4 mm



Sequins of 9 mm or less

Radius 5 mm

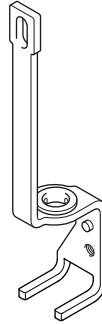
3-3. Surrounding needle (TMCP-VF, TLMX mixed type, TCMX mixed type)



- 1. Sequin needle clamp



- 2. Sequin presser foot base



- 3. Exclusive needle for 2 mm sequins (DB-K5SS#65/9)



- 4. Sequin presser foot



2 to 4 mm sequins



Sequins of 7 mm or less



Sequins of 9 mm or less

3-4. Sequin guide

Sequin guide has two types, one is for L side unit (Sequin guide L), and another is for R side unit (Sequin guide R). Their shapes are bilaterally symmetrical.

Sequin guide R



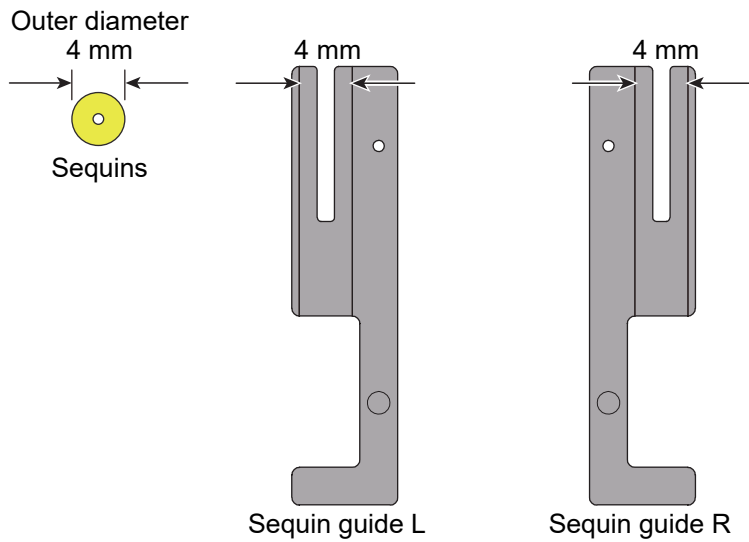
R side unit



Sequin guide R

Type of sequin guide

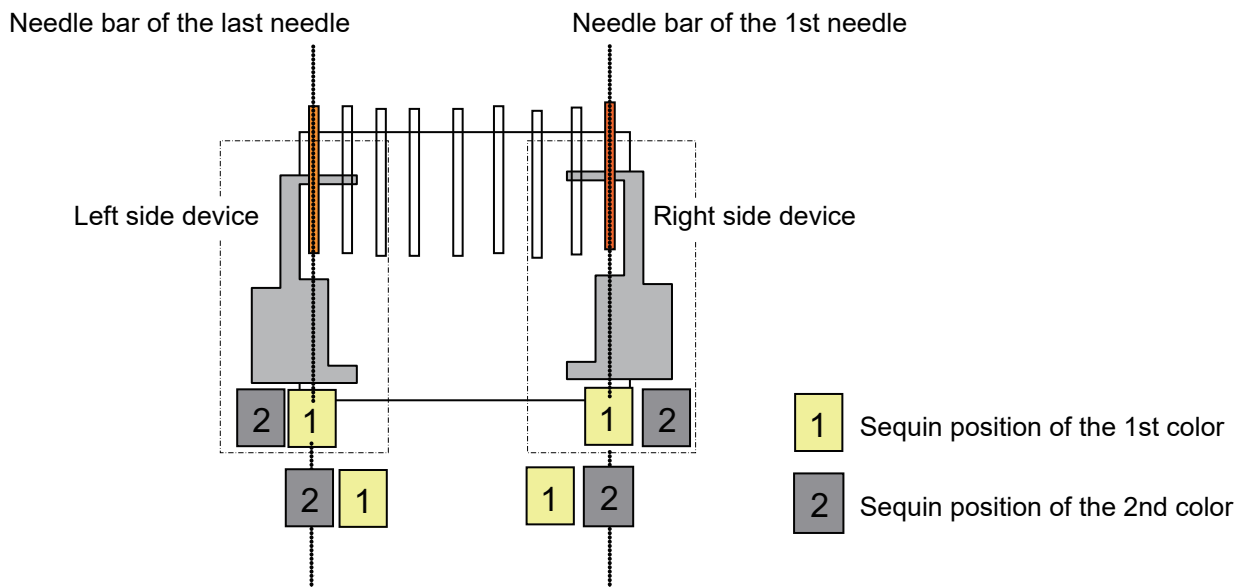
Use the sequin guide of which outer diameter is the same as that of sequin. When the size of sequin is 4 mm, use the sequin guide L (4 mm) or the sequin guide R (4 mm).



4. Movement of the device

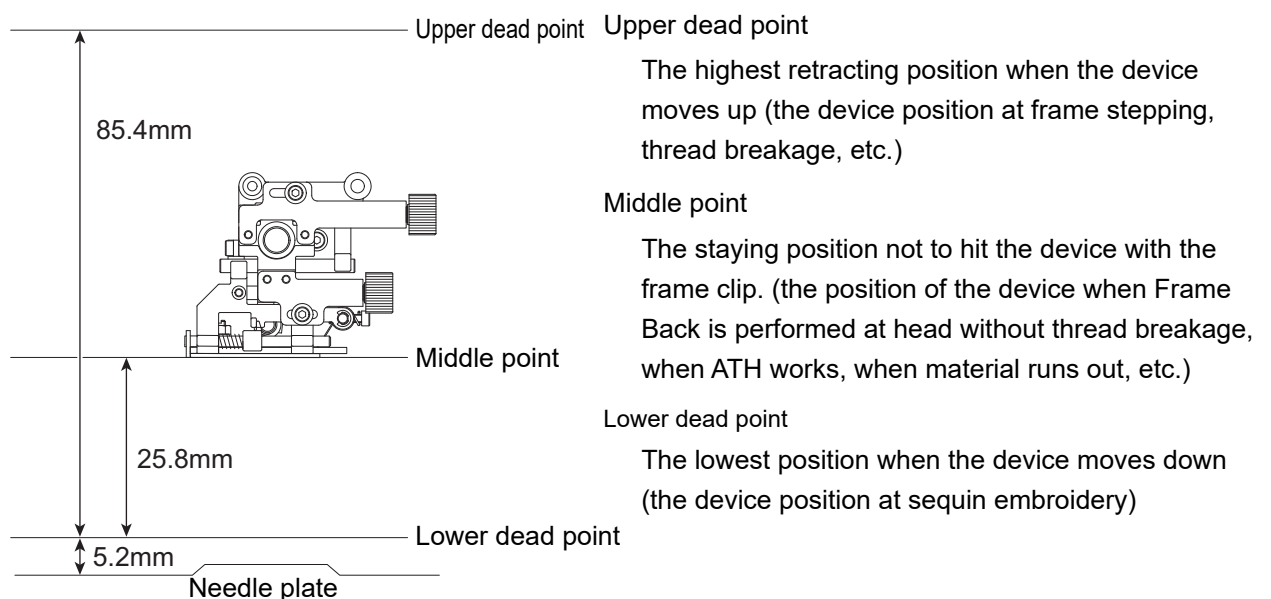
4-1. Color Change

The 1st color of the device becomes the reference position, and the device will always move once to this reference position before sequin embroidery starts.

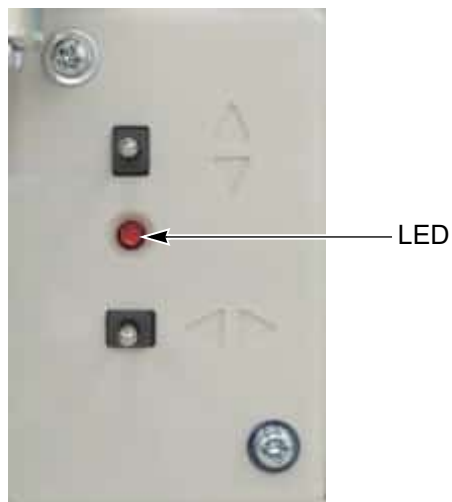


4-2. Moving up/down

The device locates at one of the upper dead point, the middle point or the lower dead point while working. The relationship of positions is shown as the figure below..



5. LED display



If the upper/under thread breaks or sequins run out while working (option), the display of LED and Up/down position of the device will be as shown in the table below.

Type	LED display		Up/down position	
	Corresponding head	Other heads than the corresponding head	Corresponding head	Other heads than the corresponding head
Upper thread breakage	Lit	Unlit	As setting of parameter 45 (→ p.58)	Lower dead point
Under thread breakage	Lit	Unlit	Lower dead point	Lower dead point
Running out of material (Option)	Blinking	Unlit	As setting of parameter 45 (→ p.58)	Lower dead point

6. Moving up/down at Frame Back

When you start frame back irrespective of frame back method, up/down position will become as shown in the table below.

Head	Up/down position
Head with thread breakage	Upper dead point (or middle point)
Heads without thread breakage	Middle point

(1) Movement at the beginning of repair stitches

At the head with thread breakage, the machine will start embroidery after the device moves down to the lower dead point.

At the head without thread breakage, the up/down position of the device will be left at the middle point.

(2) Movement at the start of all head sewing

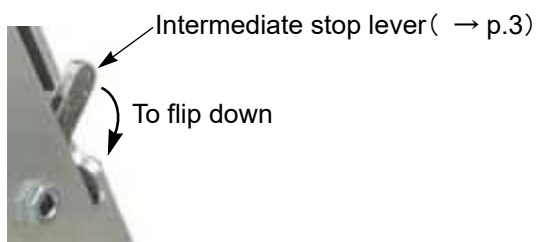
The embroidery machine will once stop, and the embroidery will start after devices of all heads move down to the lower dead point.

[Method that does not sew extra sequins in repair stitches after performing Frame Back at thread breakage]

It is possible to perform repair stitches without sewing extra sequins by using the intermediate stop lever.

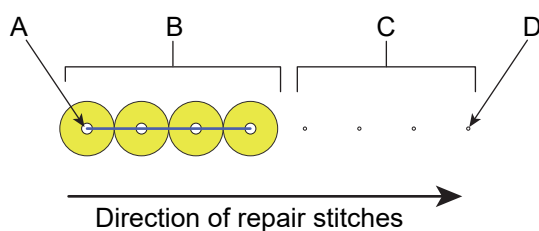
When the thread breakage occurs in the middle of sewing sequins, follow the procedure below.

- a. Perform Frame Back. The device will move up to the upper dead point. The device may locate at the middle position depending on the setting condition. In this case, move up the device to the upper dead point by operation of the up/down switch.
- b. Flip down the intermediate stop lever at the head with thread breakage.



- c. Start the machine (Inching operation). The device will move down slightly and repair stitches will be performed. After finishing the sewing of the section B (refer to the figure 1) where sequins have been sewn, stop the machine.

Fig. 1



- A: Position where Frame Back ends
- B: Section where sequins have been sewn
- C: Section where sequins have not been sewn
- D: Position where Frame Back starts

- d. Cut sequins fed out by hand.
- e. Return the intermediate stop lever.
- f. Start the machine. The device will move down to the lower dead position, and it will sew the section C where sequins have not been sewn (refer to the figure 1).

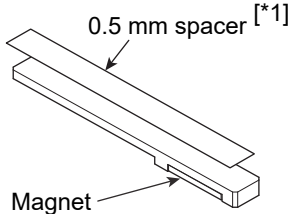


Chapter 2 Basic operation

1. Before using the device


1-1. Height gauge

Before using the device, check the height of the device.

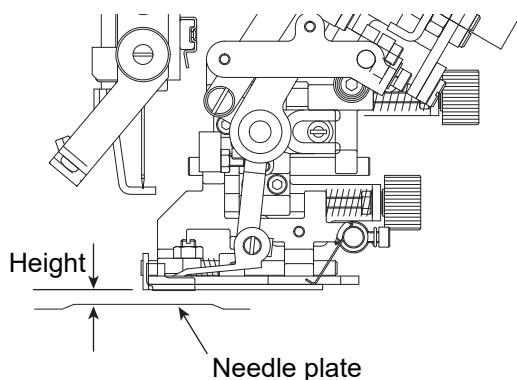
For the height adjustment of the device, use the accessory height gauge. Use the height gauge as shown in the photo below.

Height gauge	How to use	
	TMCR-VF, TMCP-VF, TLMX mixed type, TCMX mixed type	TMAR-KC TYPE-2, TMEZ-SC, TMEZ-KC
 <p>0.5 mm spacer [*1]</p> <p>Magnet</p> <p>[*1] For beads cord unit, add 0.5 mm spacer.</p>		

CAUTION

 When you perform this work, keep your hands, face, etc. away around the needle bar case. Moving the sequin device could injure you.

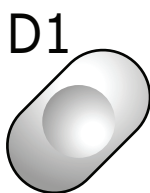
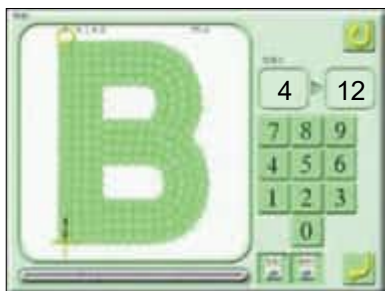
The height of the device is already adjusted at the factory. However, before using the device for the first time after setting up the machine, check the height of the device by the following procedure. If the height of the device is improper, It may cause trouble in cutting sequins.



(1) Perform Color Change to the needle equipped with the device.

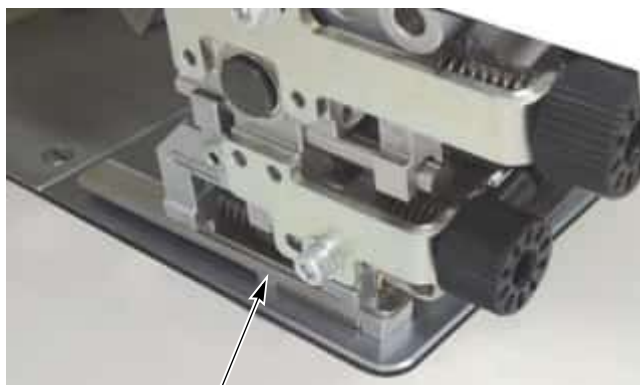
Model with LCD operation panel^[1],

TLMX mixed type, TCMX mixed type



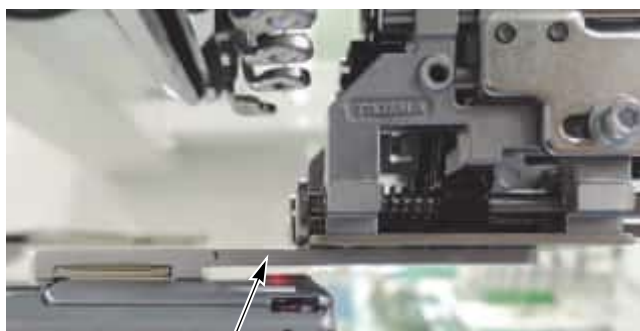
[1] TMCR-VF, TMCP-VF, TMAR-KC TYPE-2, TMEZ-SC, TMEZ-KC

(2) Put the height gauge (accessory) on the needle plate, and set the device to the lower dead point by operating Up/down switch.



TMCR-VF, TMCP-VF,
TLMX mixed type, TCMX mixed type

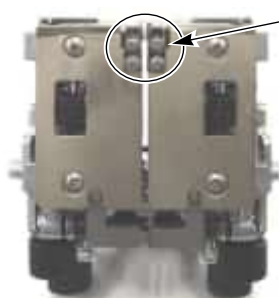
Height gauge



TMAR-KC TYPE-2, TMEZ-SC,
TMEZ-KC

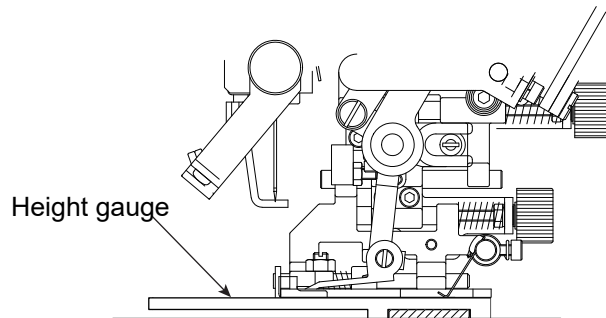
Height gauge

Back of the lower unit



Put the height gauge on the position where the height gauge does not hit screws.

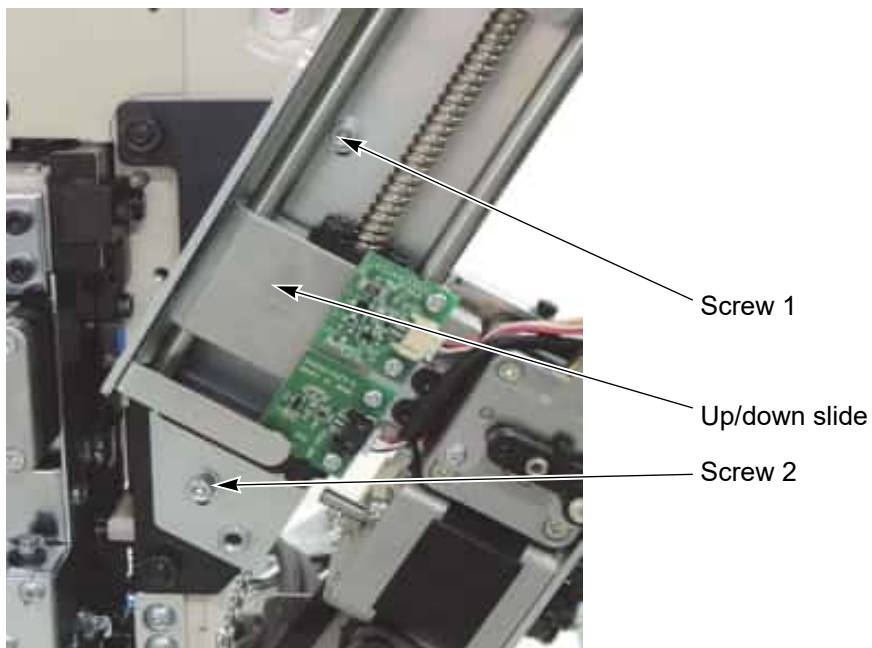
- (3) Check the height of the device by using the height gauge (accessory). When the device touches the height gauge lightly, the condition is normal.



- (4) When adjusting, loosen the screw 1 and the screw 2 to adjust the height of the device with setting the device to the lower dead point.

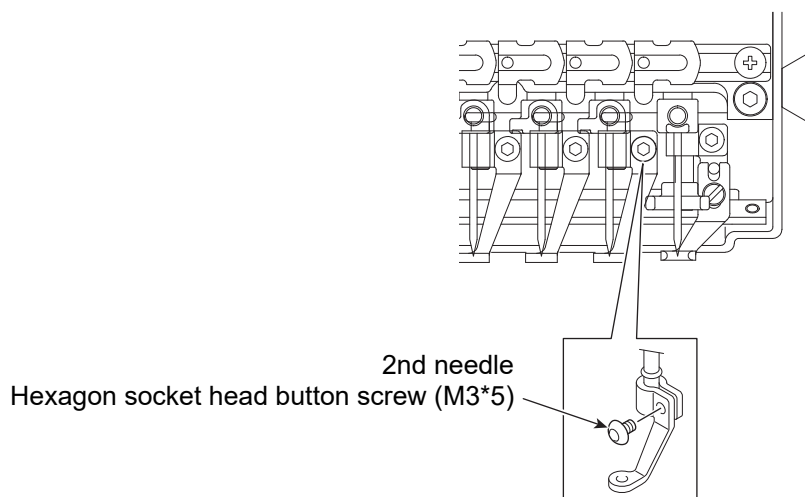
! CAUTION

⊘ Do not move up/down the device with the screw 1 loosened. The screw 1 could interfere with the up/down slide.




1-2. Right side device, 2nd needle presser foot set screw (TMCR-VF, TMAR-KC TYPE-2, TMEZ-SC, TMEZ-KC)

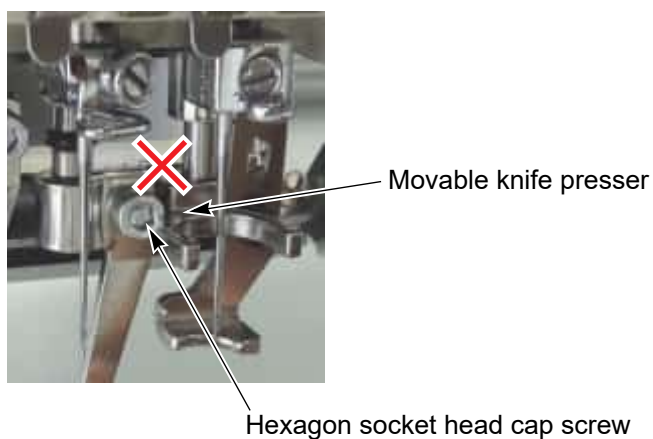
In case of the right side device, the 2nd needle presser foot set screw is the hexagon socket head button screw (M3*5). Check it before working.



CAUTION

-  Do not attach the hexagon socket head cap screw as the set screw of the 2nd needle presser foot. The hexagon socket head cap screw could hit the movable knife presser resulting in damage of parts.

When the hexagon socket head cap screw touches the movable knife presser

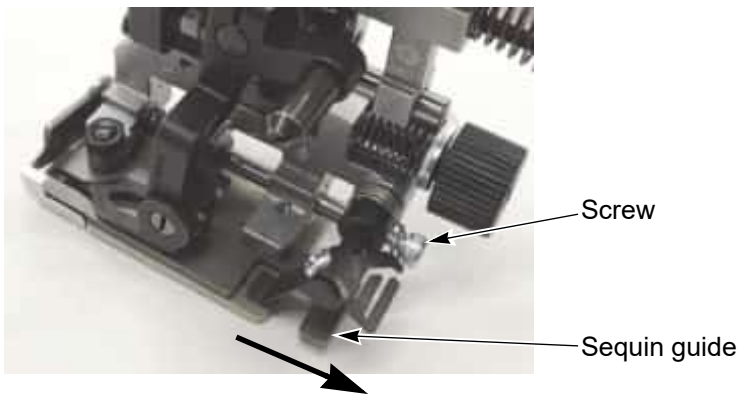


2. When replacing sequins

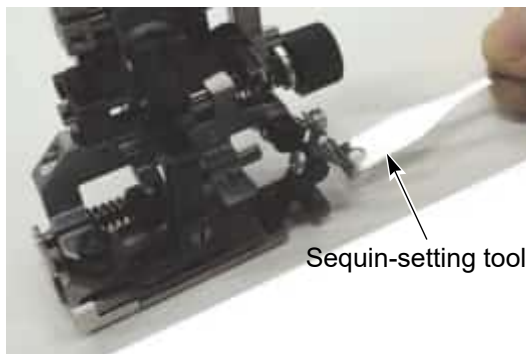
2-1. Replacement of sequin guide

When stitching various sizes of sequins, replace the sequin guide by the following procedure.

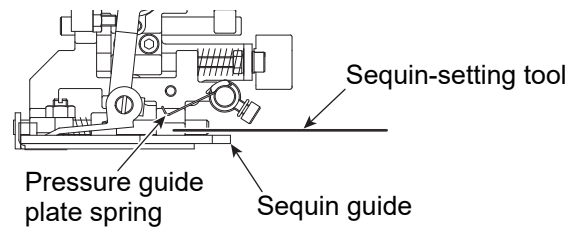
- (1) Push down the screw to detach the sequin guide.



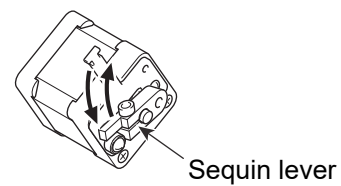
For beads, 2 mm and 3 mm sequin guides, detach the sequin guide by using the sequin-setting tool (accessory).



1. Insert the sequin-setting tool between the sequinguide and the presser guide plate spring.

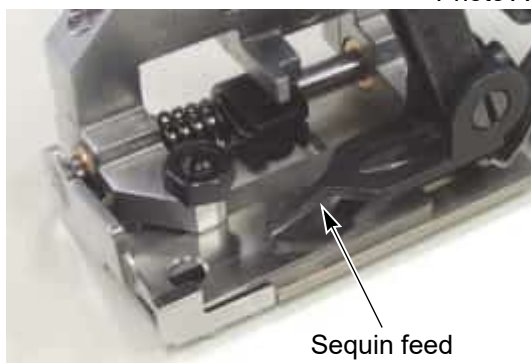


2. Move the sequin lever, and shift the sequin feed to the front.

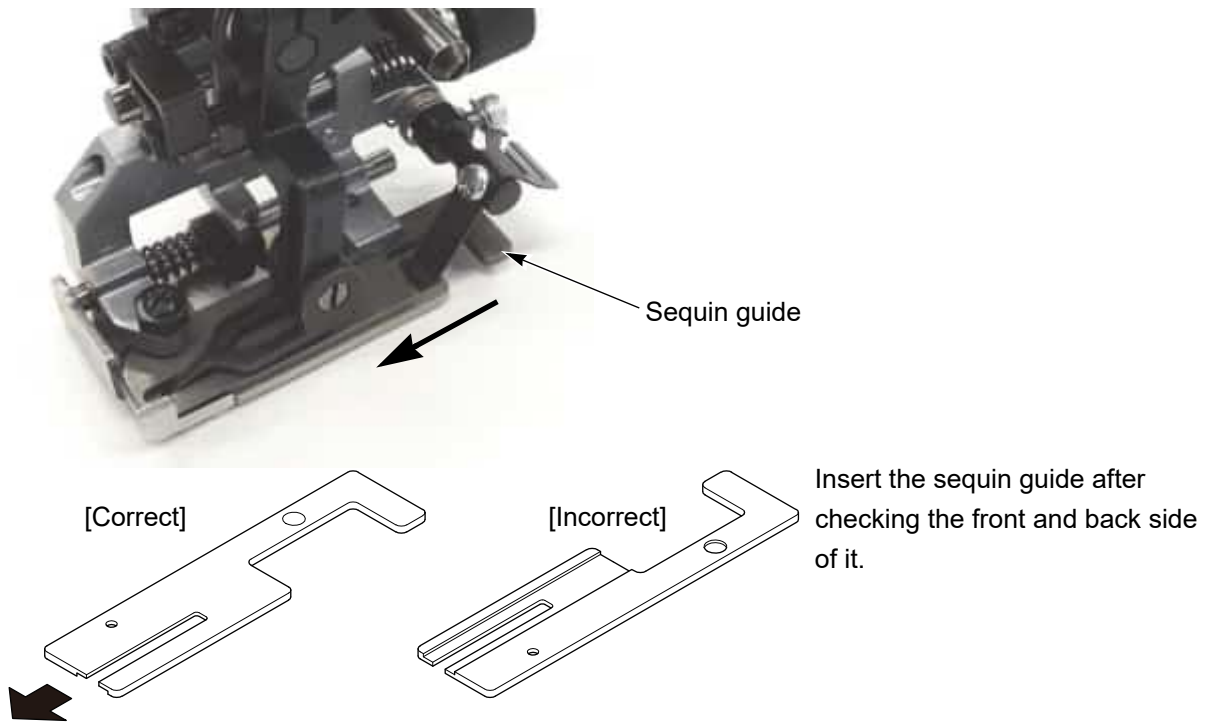


3. Remove the sequin guide.

Photo A



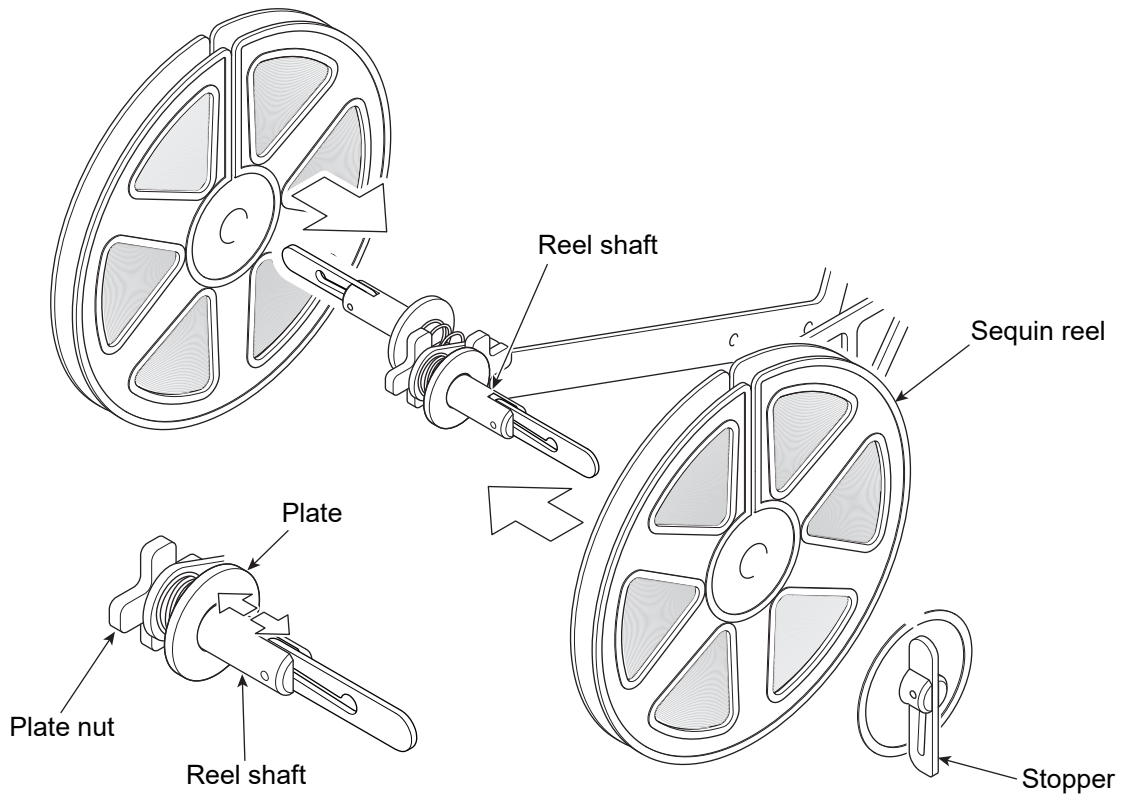
- (2) Check the front side and the back side of the sequin guide R, insert and push it into R side unit until you hear a "Click" sound.



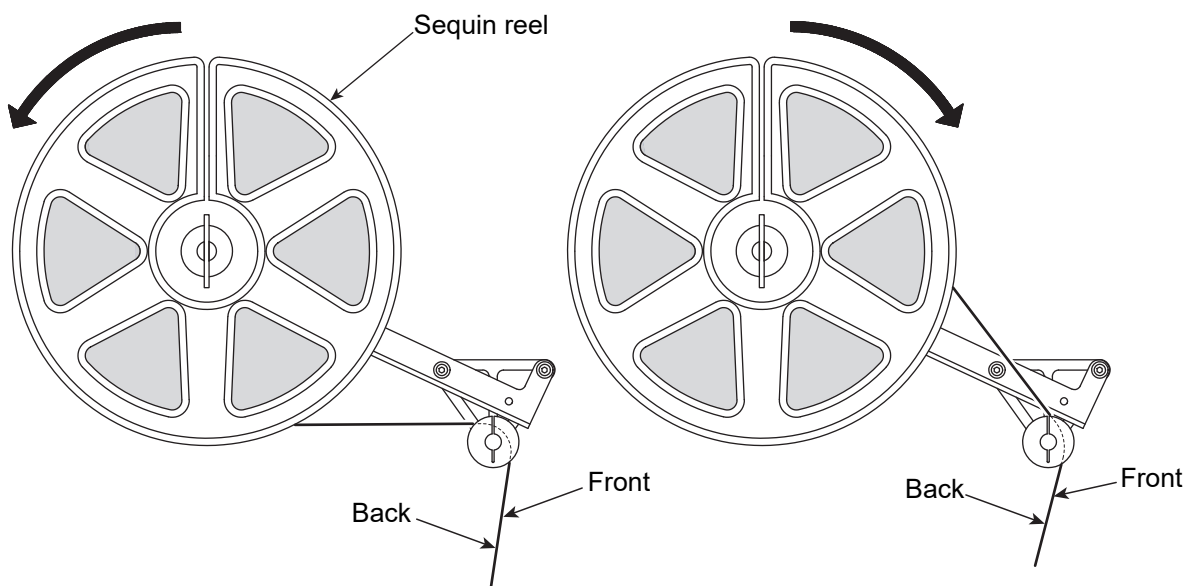
2-2. Rotation adjustment of sequin reel

(1) Insert the sequin reel to the reel shaft and lower the stopper.

If the sequin reel does not rotate smoothly or the sequin size is changed, loosen the plate nut and turn the reel shaft to adjust the position of the plate.



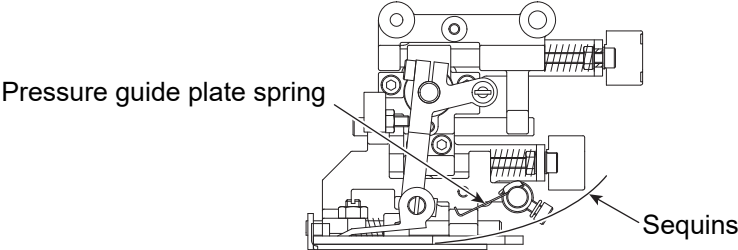
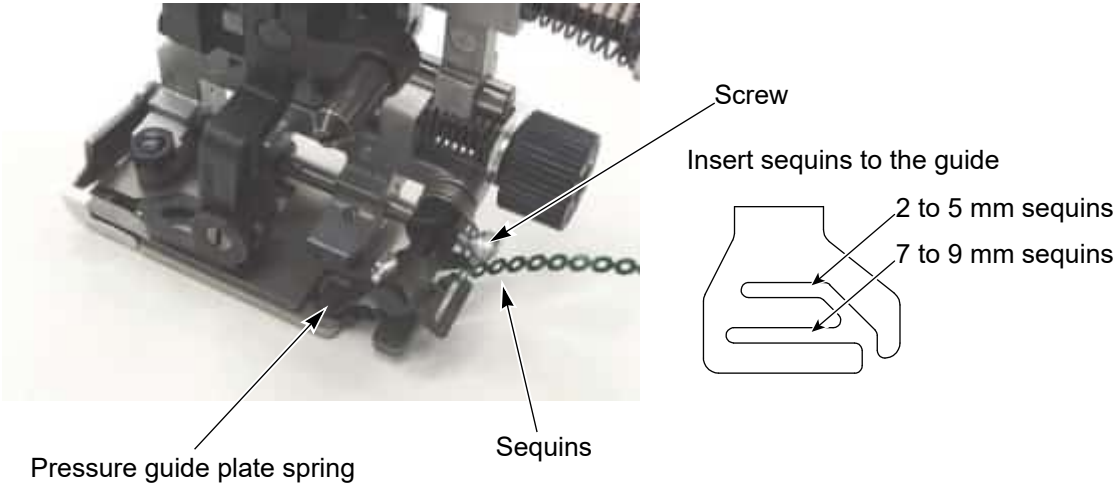
The front side or the back side of sequin becomes opposite depending on the style of placing the sequin reel.



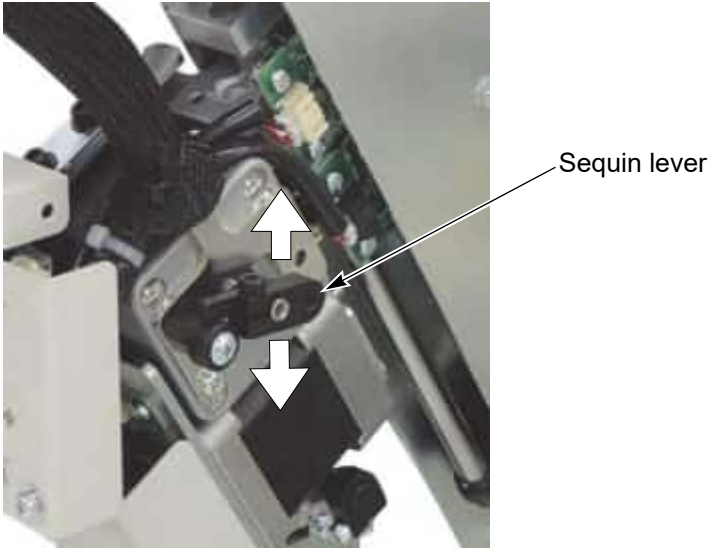
(2) When the material run-out detector (option) is attached, pass sequins as shown in the photo below.



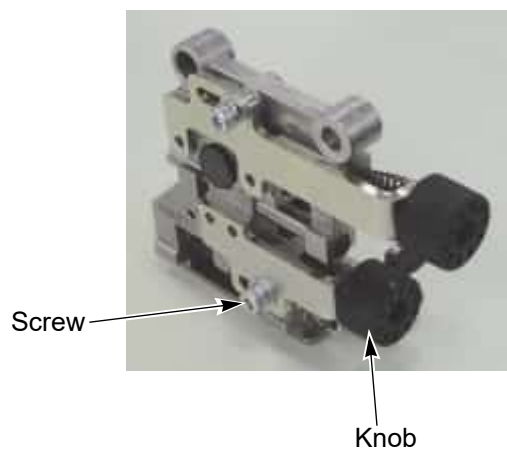
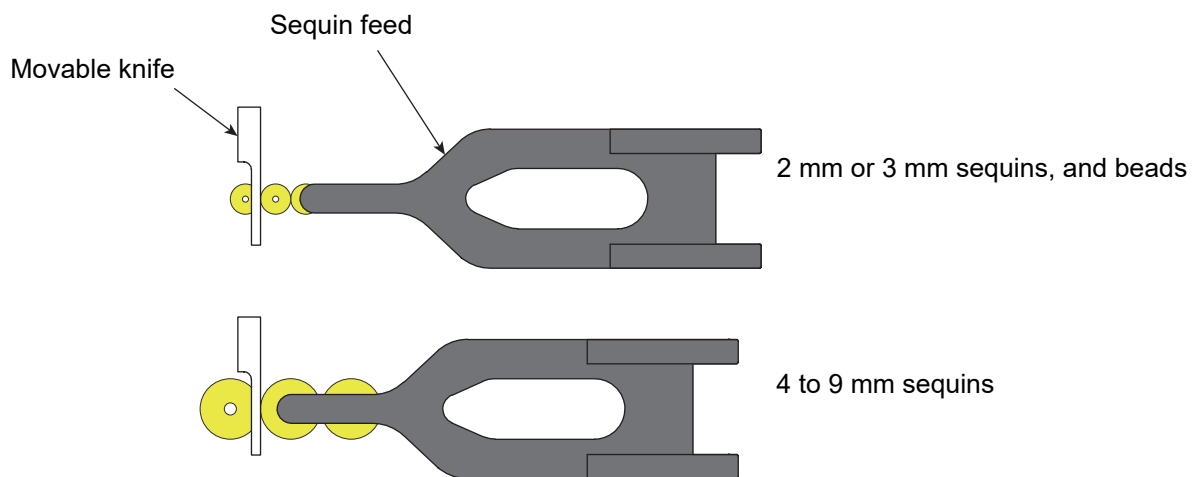
(3) Push down the screw to lift up the presser guide plate spring, and insert sequins.



(4) Move up/down the sequin lever of the pulse motor to feed sequins manually.



In the case of 2 mm or 3 mm sequins and beads, fit the sequin feed to the 2nd sequin from the movable knife.



Regarding adjustment method, loosen the screw, and turn the knob. After adjusting, tighten the screw.

(5) After that, perform the following works.

4-1. Sequin cut position (→ p.29)

4-2. Needle locating position (back and forth) (→ p.33)

4-4. Needle locating position (right and left) (→ p.41)

2-3. Replacement, height adjustment of sequin presser foot (TMCR-VF, TMAR-KC TYPE-2, TMEZ-SC, TMEZ-KC)

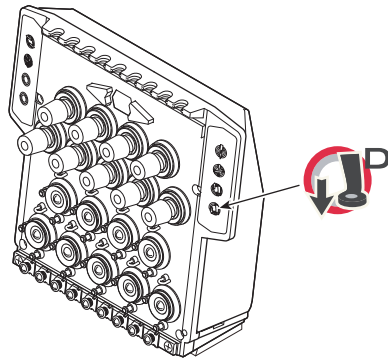
Check if the sequin presser foot suitable for the size of sequin is equipped.

To replace the sequin presser foot, follow the procedure below.

CAUTION

! If you neglect to perform this work, the load is applied to the presser foot motor resulting in occurrence of error.

- (1) Press D switch at the tension base twice. The presser foot will move down to the lower dead point.



- (2) Set the main shaft angle to 178° (Needle bar lower dead point), and lower the needle bar.

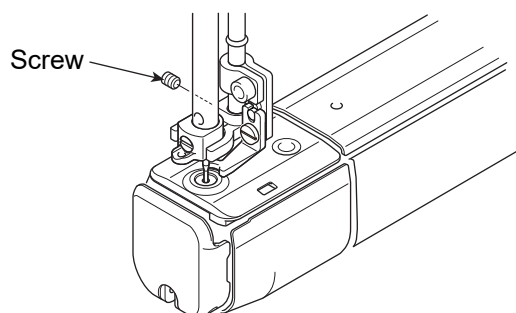
- (3) Tighten the screw under the following conditions.

[Figure A]

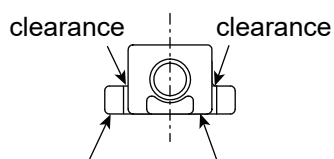
A clearance between the sequin needle clamp and the movable knife presser should be the same.

[Figure B]

The bottom surfaces of the movable knife presser and the sequin needle clamp should be aligned.

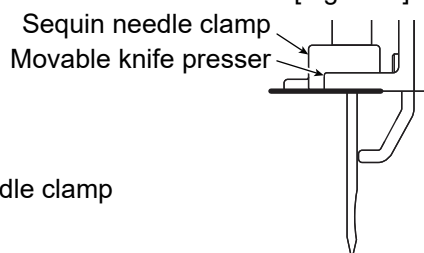


[Figure A]

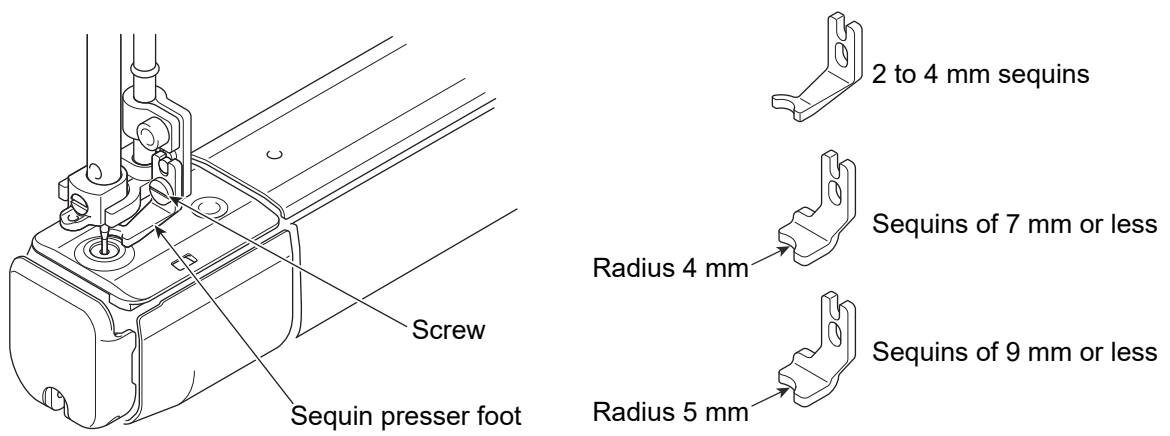


Movable knife presser Sequin needle clamp

[Figure B]



- (4)** Remove the screw to replace the sequin presser foot. When attaching the sequin presser foot, adjust the height of the sequin presser foot depending on the thickness of the fabric to use.

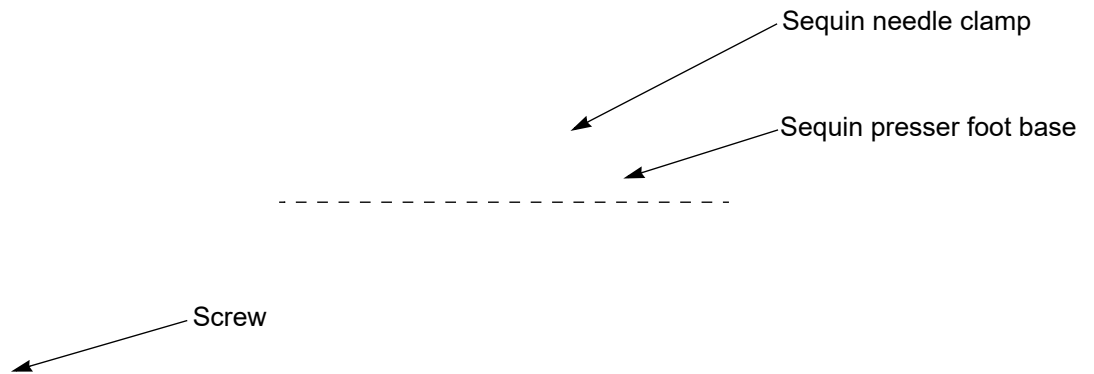


2-4. Replacement, height adjustment of sequin presser foot (TMCP-VF, TLMX mixed type, TCMX mixed type)

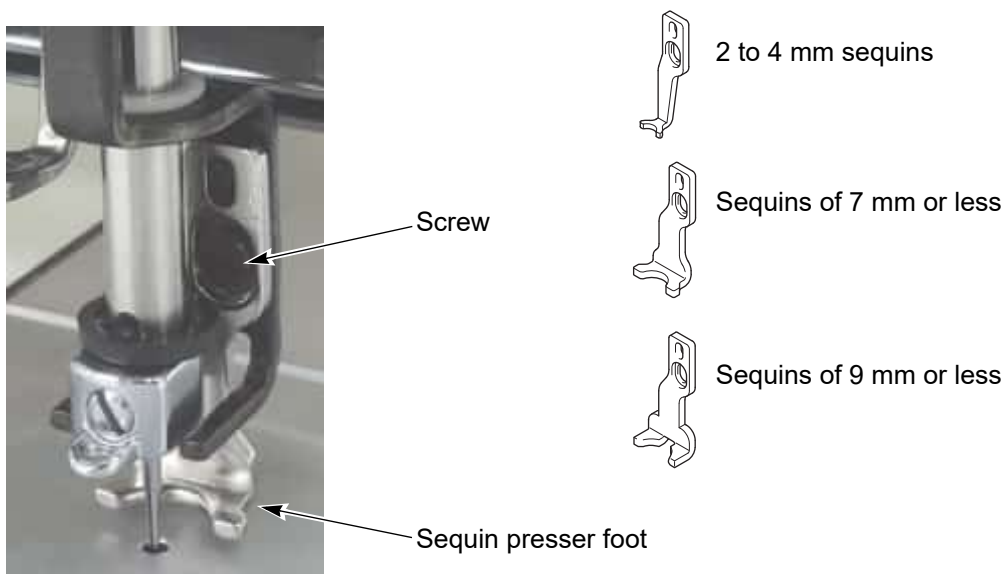
Check if the sequin presser foot suitable for the size of sequin is equipped.

To replace the sequin presser foot, follow the procedure below.

- (1) Set the main shaft angle to 178° (Needle bar lower dead point), and lower the needle bar.
- (2) Adjust the height of the sequin presser foot base so that the lower side of the sequin presser foot base is at the same height as the lower side of the sequin needle clamp, and tighten the screw.
Fix the sequin needle clamp and the sequin presser foot base so that they do not touch each other.



- (3) Remove the screw to replace the sequin presser foot. When attaching the sequin presser foot, adjust the height of the sequin presser foot depending on the thickness of the fabric to use.




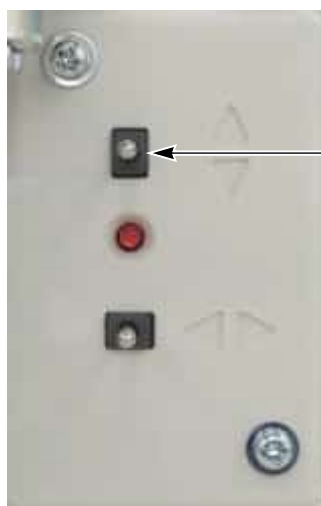
3. Up/down of device, Color change (Manual operation)

3-1. To move up/down individually

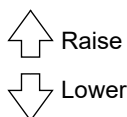
This function can be operated only when the needle bar equipped with the device is selected.

CAUTION

 When performing this operation, keep your hands, face etc. away from the needle bar case. The moving Sequin Device could injure you.



Up/down switch



Flipping the switch during raising/lowering will cause the device to stop.

**3-2. To raise/lower Sequin devices at all heads together in a batch
(TMCR-VF, TMCP-VF, TMAR-KC TYPE-2, TMEZ-SC, TMEZ-KC)**

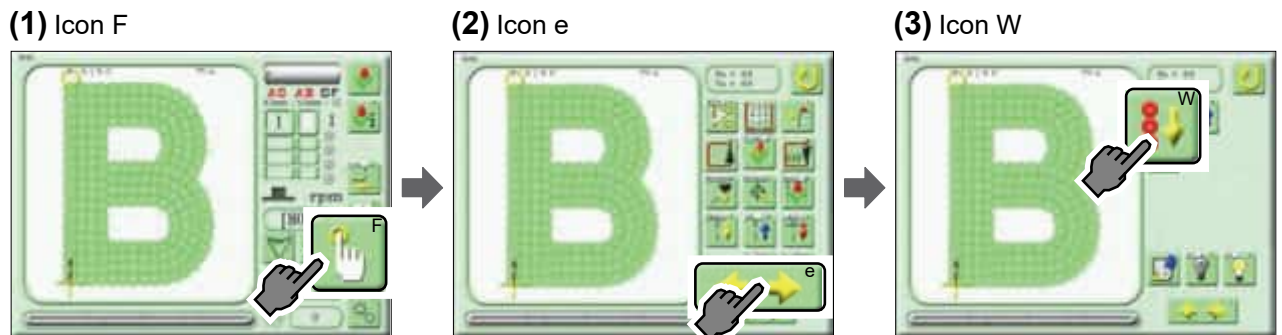
This function can be operated only when the needle bar equipped with the device is selected.


CAUTION

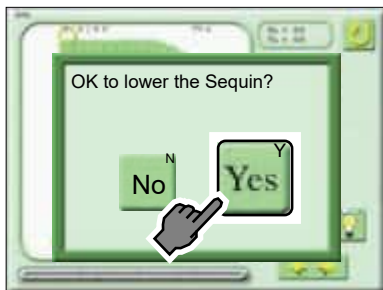
 When performing this operation, keep your hands, face etc. away from the needle bar case. The moving Sequin Device could injure you.

[How to operate]

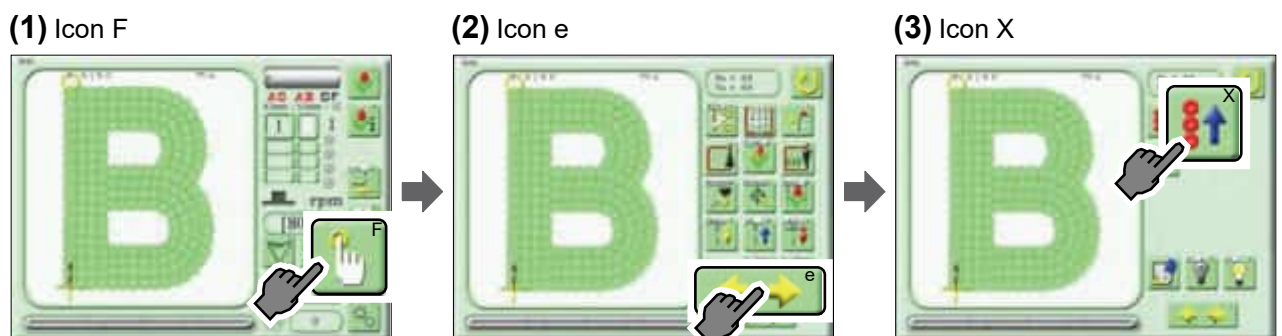
The following explanation is the example of moving down the device.

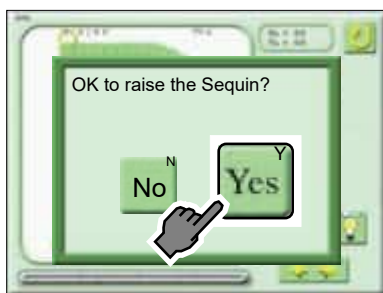


(4) Yes (Completed)




The following explanation is the example of moving up the device.

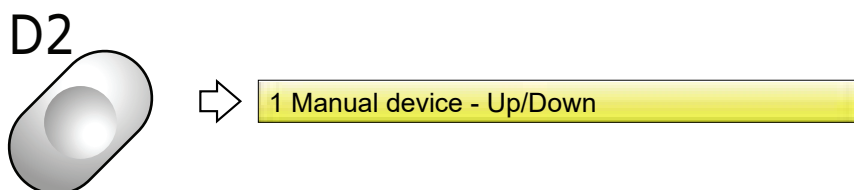
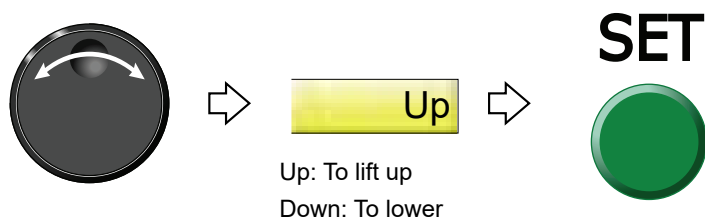


(4) Yes (Completed)**3-3.** To raise/lower Sequin devices at all heads together in a batch (TLMX mixed type, TCMX mixed type)

This function can be operated only when the needle bar equipped with the device is selected.

 When performing this operation, keep your hands, face etc. away from the needle bar case. The moving Sequin Device could injure you.


[How to operate]

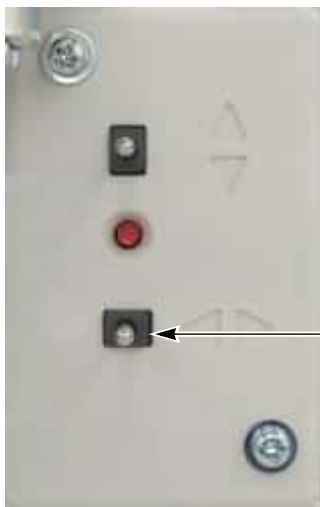
(1) To open screen**(2)** To raise the Sequin device

3-4. Color Change

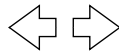
This function can be operated only when the needle bar equipped with the device is selected.

CAUTION

 When performing this operation, keep your hands, face etc. away from the needle bar case. The moving Sequin Device could injure you.



Color change switch

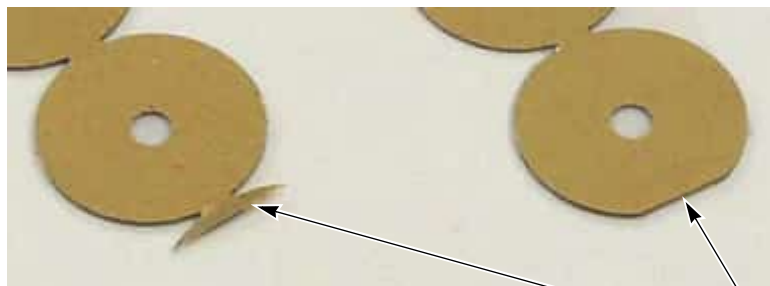


The sequin unit will slide to right and left.

4. Checking and adjustment of each section

4-1. Sequin cut position

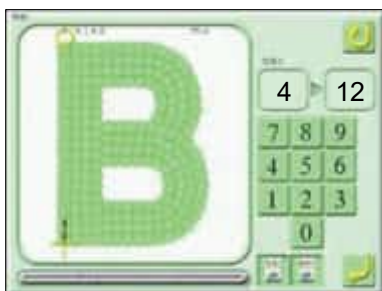
Perform this work when the condition of the cut sequin is bad.



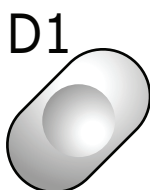
Bad example

(1) Perform Color Change to the needle equipped with the device.

Model with LCD operation panel



TLMX mixed type, TCMX mixed type



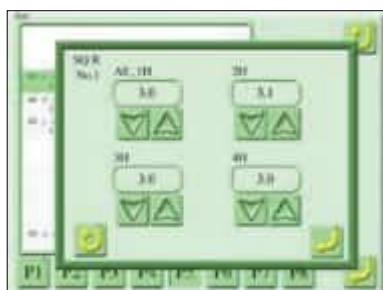
2 Manual Color Change

12

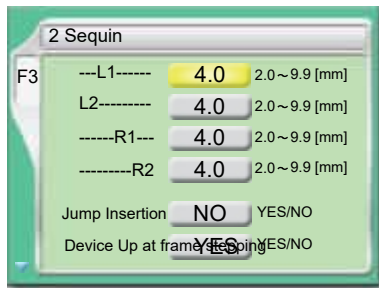
(2) Check if the sequin chip feed amount is adequate for the sequin size.

Rough standard of sequin feed amount is +1.0 mm for sequin size. Select the feed amount according to the outer diameter of sequin.

Model with LCD operation panel: 2. Setting of sequin chip feed amount (→ p.55)



TLMX mixed type, TCMX mixed type: 2. Setting of sequin chip feed amount (→ p.66)

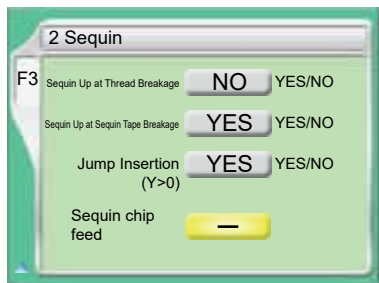


(3) Change to the following parameter setting.

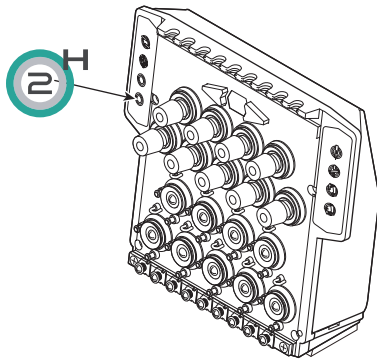
Model with LCD operation panel: 5. To feed sequins one by one manually (→ p.59)



TLMX mixed type, TCMX mixed type: 5. To feed sequins one by one manually (→ p.70)

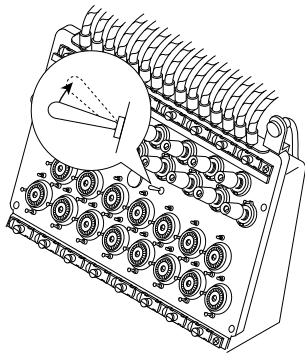


(4) Feed out 1 pce of sequin chip by the switch on the tension base.



[Model with LCD operation panel]

Press H switch.

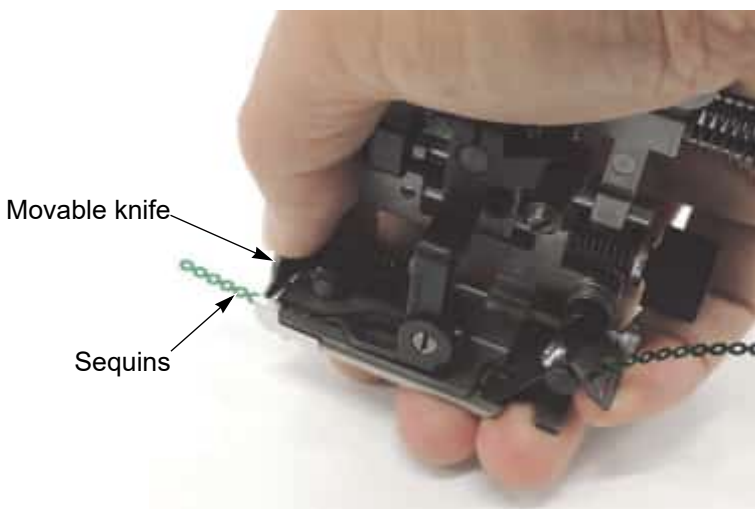


[TLMX mixed type, TCMX mixed type]

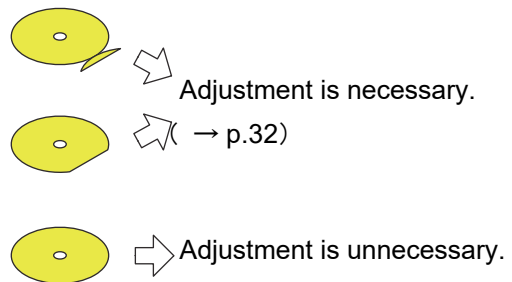
Raise the switch on the tension base.

(5) Press the movable knife manually to cut sequin.

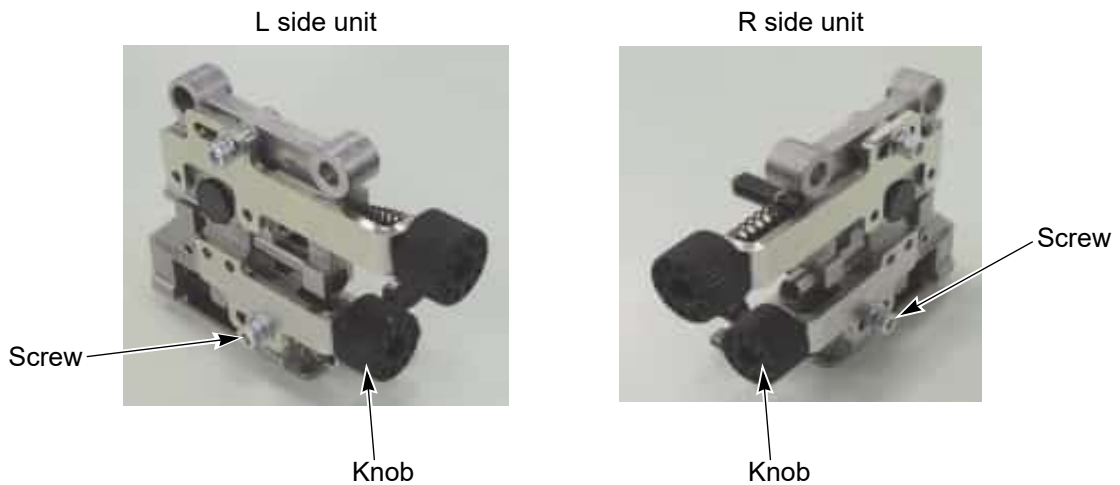
In the photo below, the sequin unit is detached for easily understandable explanation. Actually, perform the work in the state that the sequin unit is equipped in this device.



Check the condition of the cut sequin.

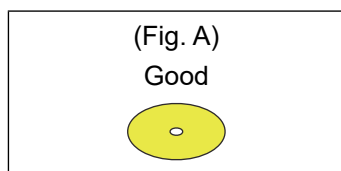


- (6) When adjustment is necessary, loosen the screw. Refer to the chart below, and turn the knob to adjust the cutting position so that the cut shape of sequin becomes as shown in the figure A. After adjusting, tighten the screw.



Rotating the knob by one turn will move sequins about 0.5 mm back and forth. Turning directions of R side unit and L side unit are the same.

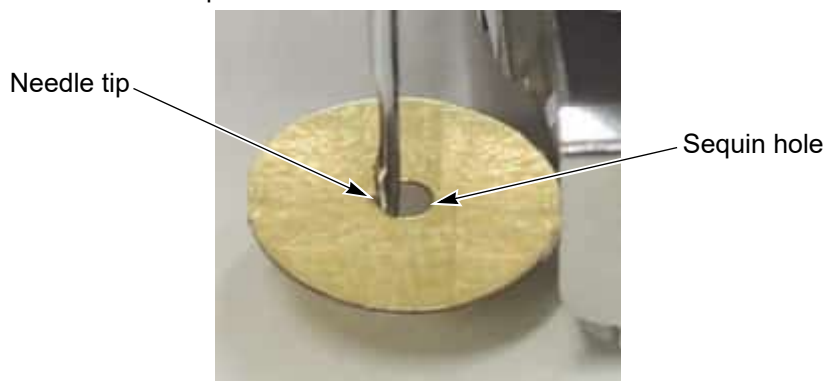
Cut sequin	Turning direction to adjust	Movement of feed pawl
<p>Bad</p>	<p>Counterclockwise direction</p>	<p>2 mm or 3 mm sequins, and beads</p> <p>4 to 9 mm sequins</p>
<p>Bad</p>	<p>Clockwise direction</p>	<p>2 mm or 3 mm sequins, and beads</p> <p>4 to 9 mm sequins</p>



4-2. Needle locating position (back and forth)

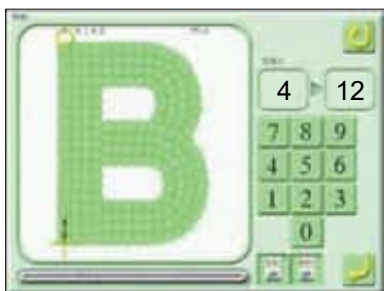
Perform this work when the needle locating position comes off back and forth against the sequin hole.

An example when the needle locating position comes off

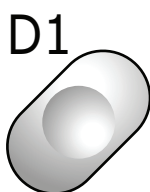


(1) Perform Color Change to the needle equipped with the device.

Model with LCD operation panel

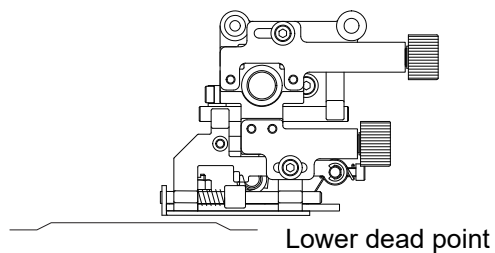


TLMX mixed type, TCMX mixed type



2 Manual Color Change 12

(2) Set the device to the lower dead point by the operation of Up/down switch. (→ p.25)

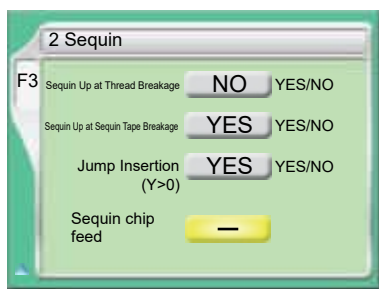


(3) Change to the following parameter setting.

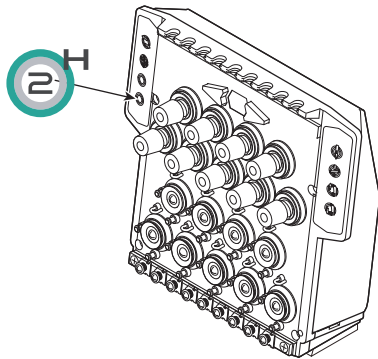
Model with LCD operation panel: 5. To feed sequins one by one manually (→ p.59)



TLMX mixed type, TCMX mixed type: 5. To feed sequins one by one manually (→ p.70)

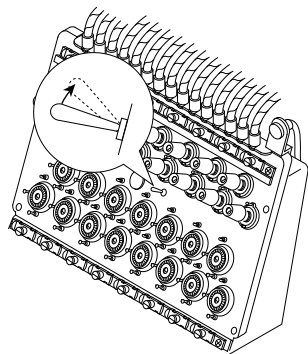


(4) Feed out 1 pce of sequin chip by the switch on the tension base.



[Model with LCD operation panel]

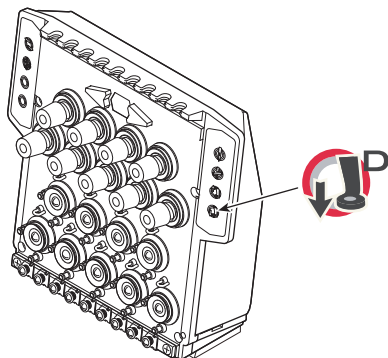
Press H switch.



[TLMX mixed type, TCMX mixed type]

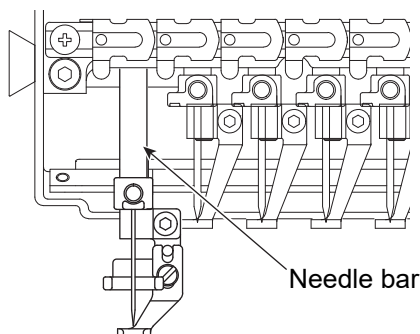
Raise the switch on the tension base.

- (5) For the model with LCD operation panel (excluding TMCP-VF), press D switch on the tension base once. The presser foot will lower to the frame back position.



This work is not necessary for TMCP-VF, TLMX mixed type, and TCMX mixed type. Proceed to the next procedure.

- (6) Lower the needle bar by hand.



The presser foot is moving down.

The left figure is for TMCR-VF.

For TMCP-VF, TLMX mixed type, and TCMX mixed type, the figure is different.

[Model with LCD operation panel (excluding TMCP-VF)]

While the presser foot is moving down, Color Change and Up/down operation of the device is not available. If Color change or Up/down operation is performed, the code No. 376 appears on the operation panel.

- (7) Check if the needle locates at the center of the sequin hole by using the mirror (accessory).

TMCR-VF, TMCP-VF,
TLMX mixed type, TCMX mixed type

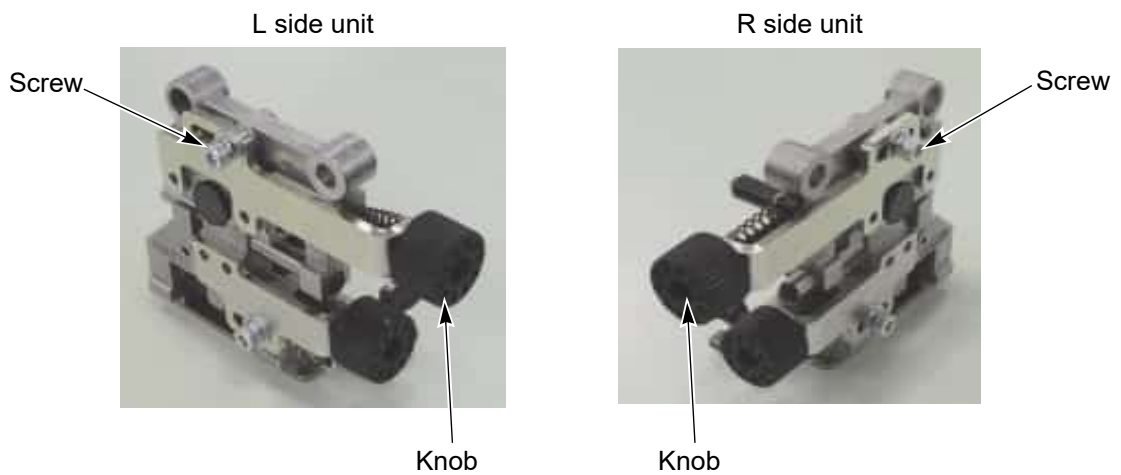
TMAR-KC TYPE-2, TMEZ-SC,
TMEZ-KC



Mirror (accessory)

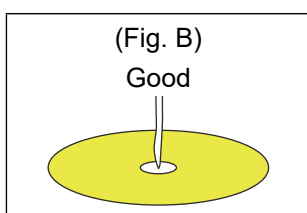


- (8)** When adjustment is necessary, loosen the screw. Refer to the chart below, and turn the knob to adjust so that the needle locating position becomes as shown in the figure B. After adjusting, tighten the screw.

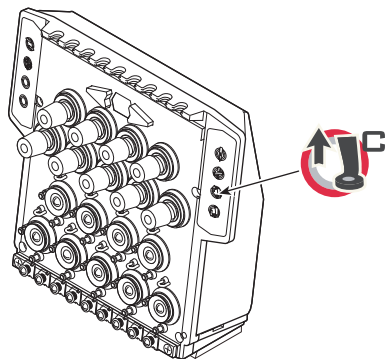


Rotating the knob by one turn will move sequins about 0.5 mm back and forth. Turning directions of R side unit and L side unit are the same.

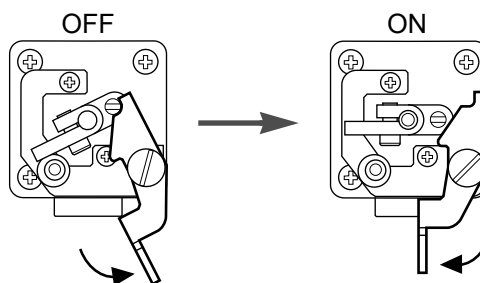
Needle locating position	Turning direction to adjust	Movement of unit
<p>Bad</p>	<p>Counterclockwise direction</p>	
<p>Bad</p>	<p>Clockwise direction</p>	



- (9) For the model with LCD operation panel (excluding TMCP-VF), press C switch. The presser foot and needle bar will be raised.




For TMCP-VF, TLMX mixed type, and TCMX mixed type, turn OFF/ON the clutch on the left side of the arm. The presser foot and needle bar will be raised.






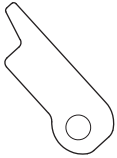


4-3. To open or close the movable knife

Perform this work when adjusting the needle locating position (right and left) of sequin. This work needs to move up and down the device. Before moving up and down, observe items to notice described below.

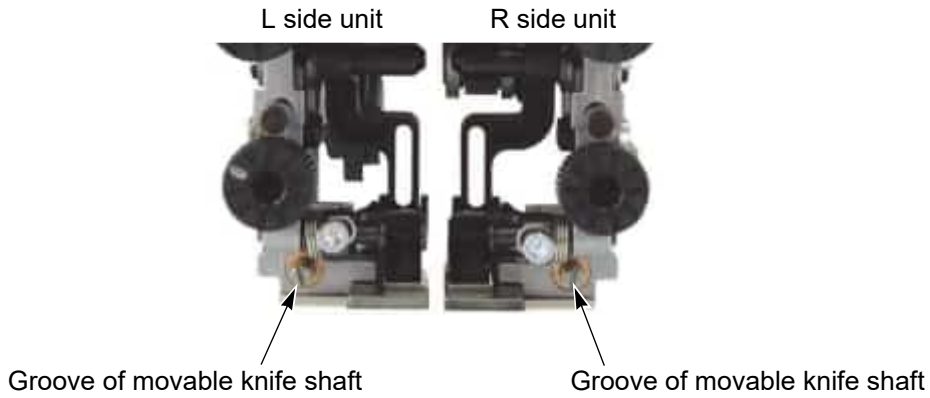
 **CAUTION**

! To move up/down the device, perform the work under the conditions as photo A or photo B. If you move up/down the device under the condition as photo C, some part could be damaged.

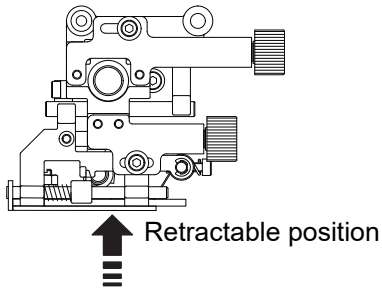
<p>Photo A</p> 	<p>Closed state</p>  <p>→ The device can be moved up and down.</p>
<p>Photo B</p> 	<p>Opened state</p>  <p>→ The device can be moved up and down.</p>
<p>Photo C</p> 	<p>In the state of incompleteness</p>  <p>→ The device cannot be moved up and down.</p>

(1) To open the movable knife

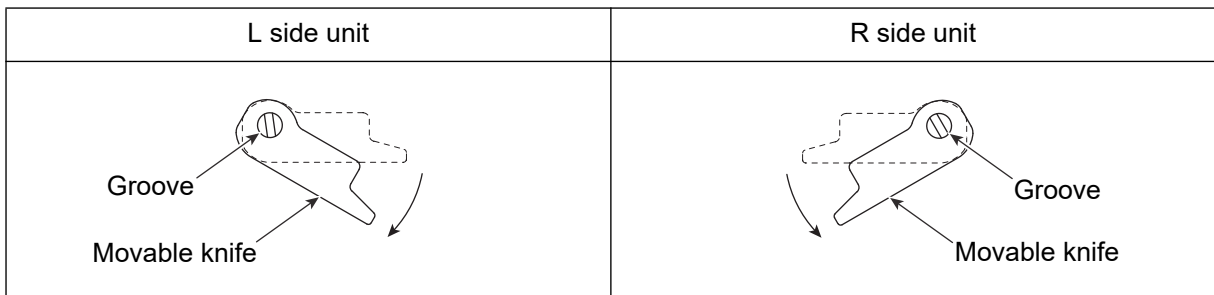
Turn the groove direction of the movable knife to open/close the movable knife. Open/close the movable knife after pulling out sequin chips.



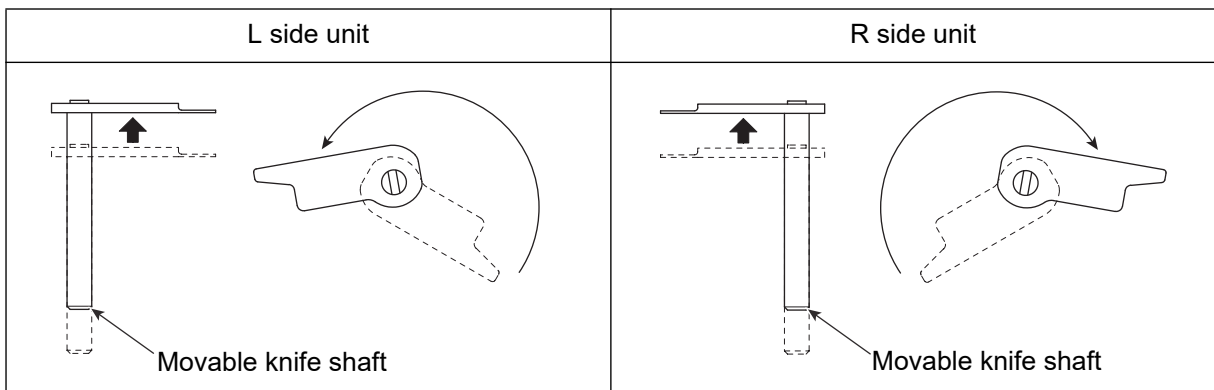
1. Set the device to the retractable position by the operation of Up/down switch. (→ p.25)



2. Insert the flat head screwdriver into the groove to turn the movable knife to the direction indicated by arrow.

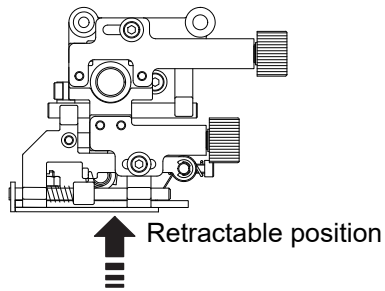


3. Thrust the movable knife shaft to turn the movable knife to the direction indicated by arrow.

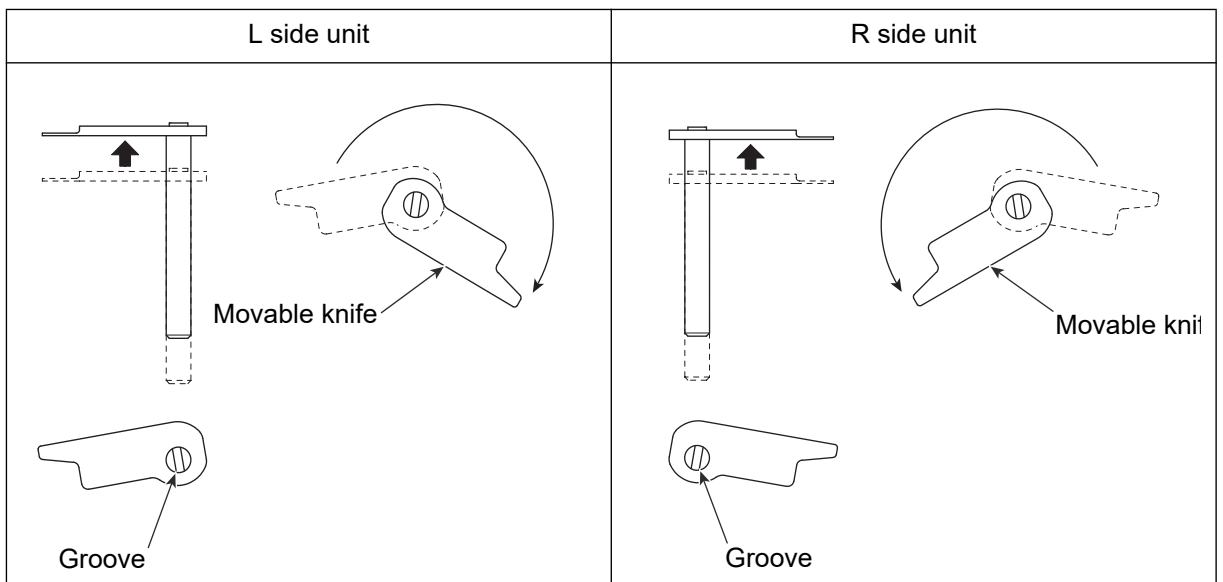


(2) To close the movable knife.

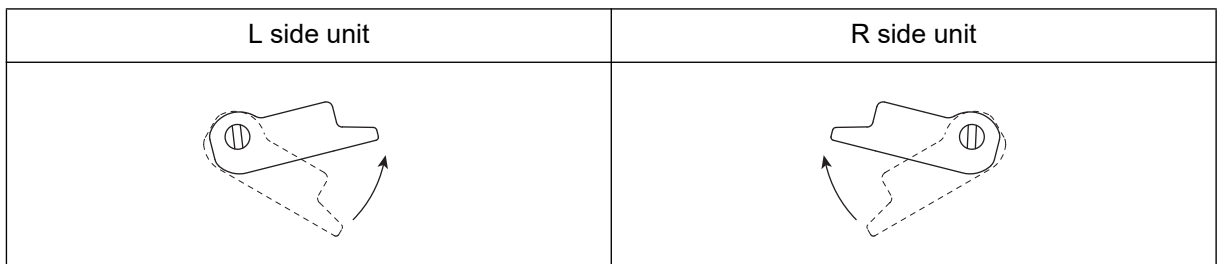
1. Set the device to the retractable position by the operation of Up/down switch. (→ p.25)



2. Turn the movable knife to the direction indicated by arrow by pushing the flat head screwdriver into the groove.



3. When it is released, the movable knife will return to the retractable position by spring force.

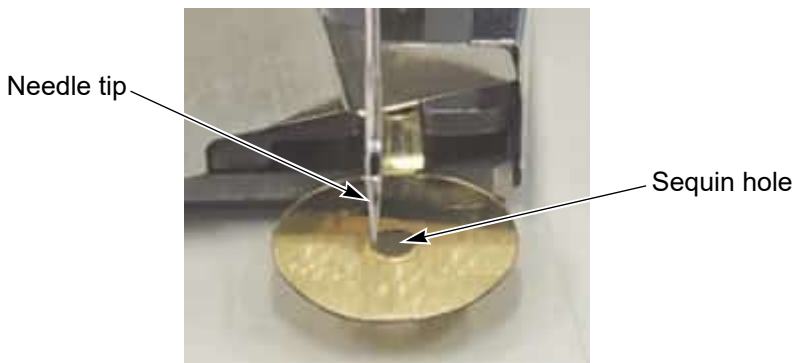


4. After that, push the movable knife by hand to check if it moves normally.

4-4. Needle locating position (right and left)

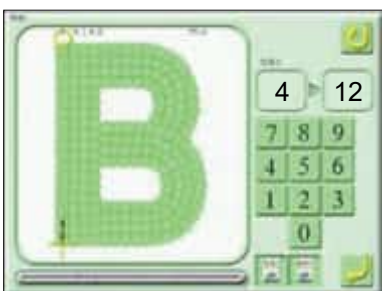
Perform this work when the needle locating position comes off right and left against the sequin hole.
 For this work, we herewith explain by using the example of the left side device.

An example when the needle locating position comes off

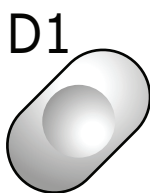


(1) Perform Color Change to the needle equipped with the device.

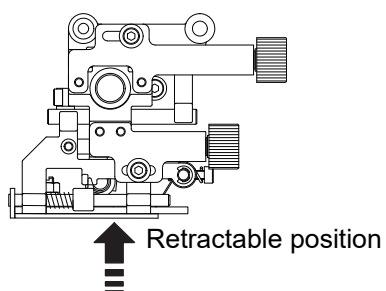
Model with LCD operation panel



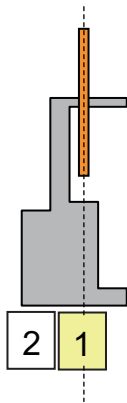
TLMX mixed type, TCMX mixed type



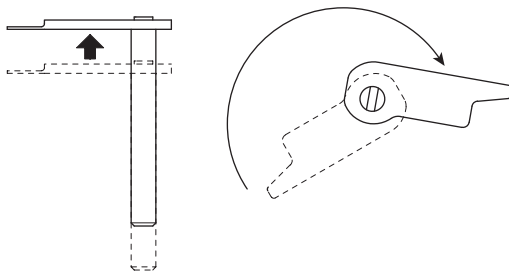
(2) Set the device to the retractable position by the operation of Up/down switch. (→ p.25)



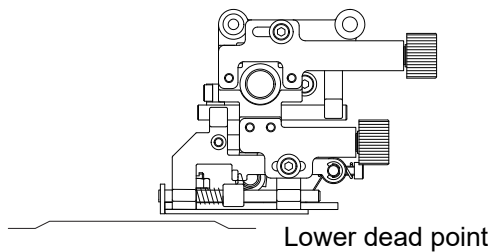
- (3) Perform Color change to the 1st color sequin by the operation of the color change switch. (→ p.28)



- (4) Open the movable knife at the 1st color sequin. (→ p.39)



- (5) Set the device to the lower dead point by the operation of Up/down switch. (→ p.25)

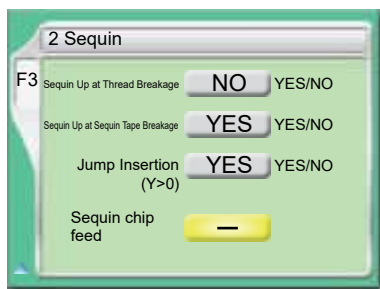


- (6) Change to the following parameter setting.

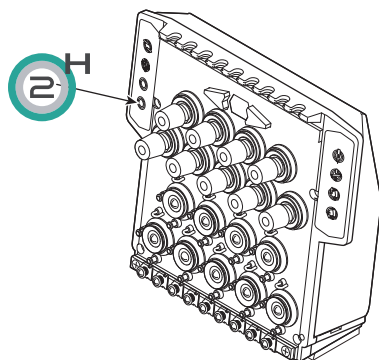
Model with LCD operation panel: 5. To feed sequins one by one manually (→ p.59)



TLMX mixed type, TCMX mixed type: 5. To feed sequins one by one manually (→ p.70)

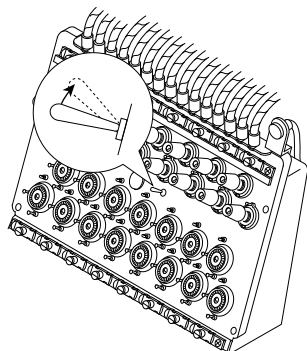


(7) Feed out 1 pce of sequin chip by the switch on the tension base.



[Model with LCD operation panel]

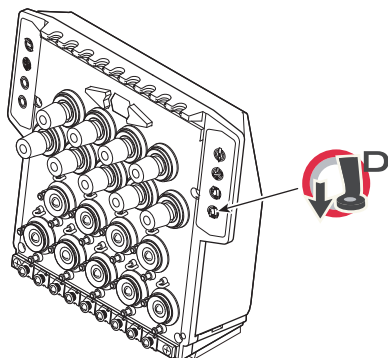
Press H switch.



[TLMX mixed type, TCMX mixed type]

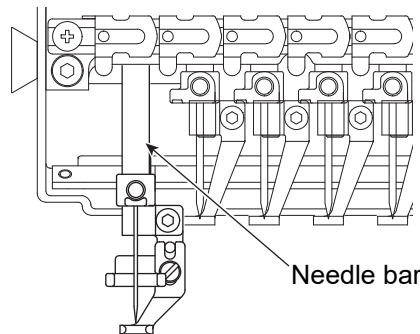
Raise the switch on the tension base.

(8) For the model with LCD operation panel (excluding TMCR-VF), press D switch on the tension base once. The presser foot will lower to the frame back position.



This work is not necessary for TMCP-VF, TLMX mixed type, and TCMX mixed type. Proceed to the next procedure.

(9) Lower the needle bar by hand.



The presser foot is moving down.

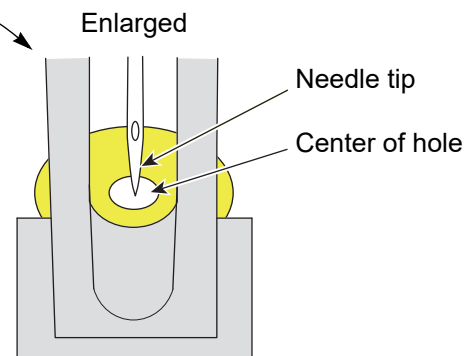
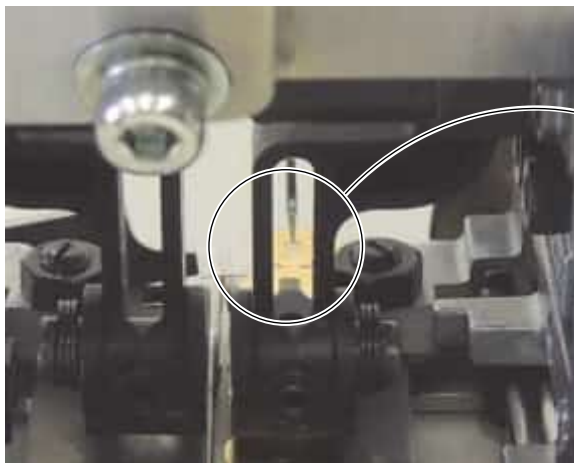
The left figure is for TMCR-VF.

For TMCP-VF, TLMX mixed type, and TCMX mixed type, the figure is different.

[Model with LCD operation panel (excluding TMCR-VF)]

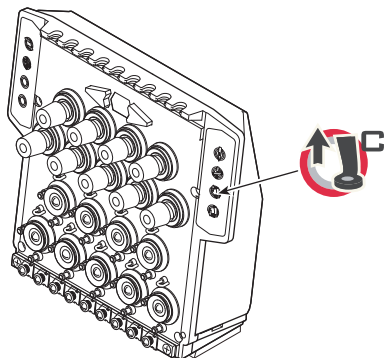
While the presser foot is moving down, Color Change and Up/down operation of the device is not available. If Color change or Up/down operation is performed, the code No. 376 appears on the operation panel.

(10) Check the needle locating position at the 1st color sequin.

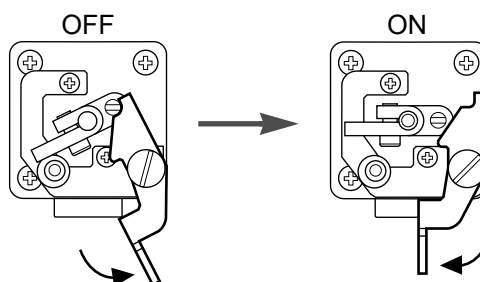


When the needle locating position at the 1st color sequin is normal, follow the procedure below.

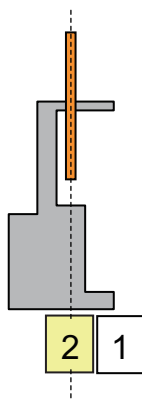
- a. For the model with LCD operation panel (excluding TMCR-VF), press C switch. The presser foot and needle bar will be raised.



For TMCP-VF, TLMX mixed type, and TCMX mixed type, turn OFF/ON the clutch on the left side of the arm. The presser foot and needle bar will be raised.



- b. Perform Color change to the 2nd color sequin by the operation of the color change switch.
(→ p.28)

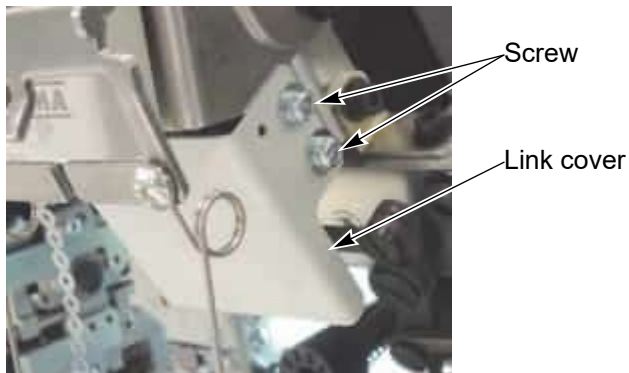


- c. After that, proceed to the next work.
(18) Change to the following parameter setting. (→ p.48)

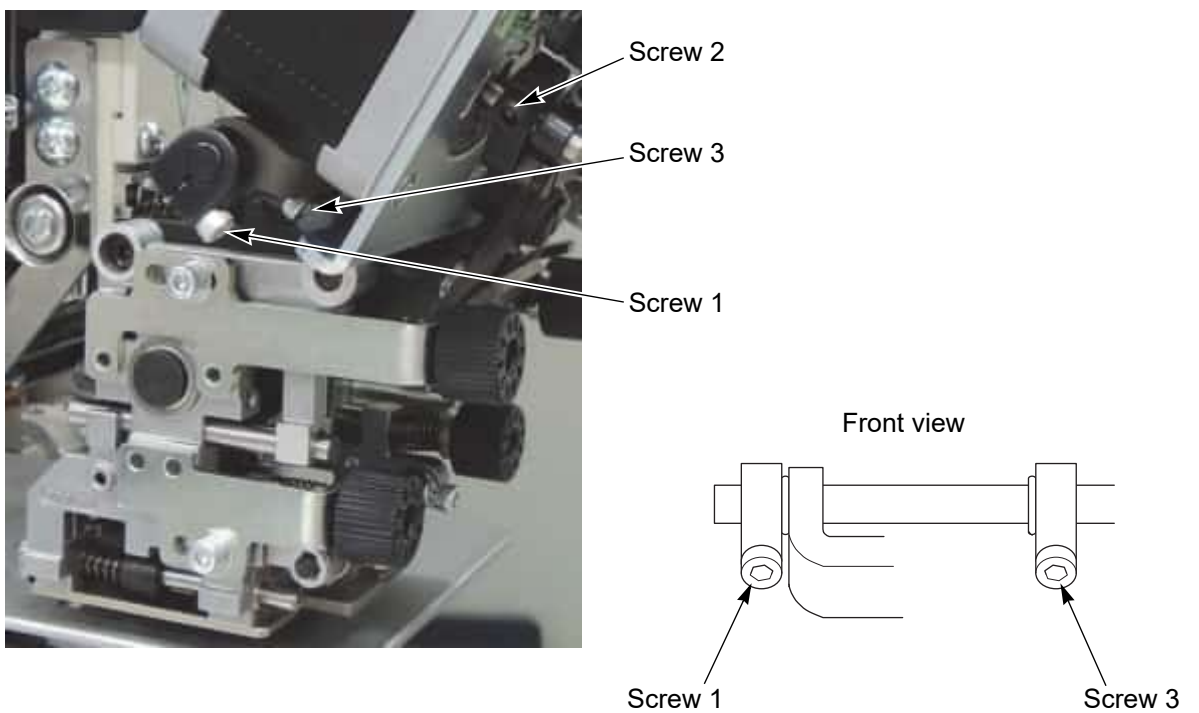
When the needle locating position at the 1st color sequin comes off right and left, follow the procedure below.

- (11) Loosen the screws, and remove the link cover. (→ p.46)

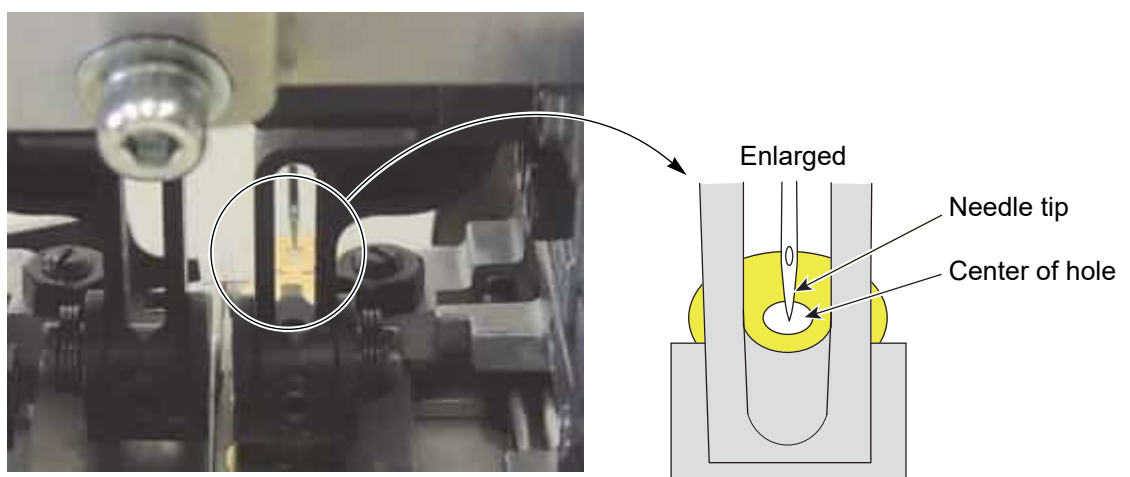
(11) Loosen the screws, and remove the link cover.



(12) Loosen screws 1, 2 and 3.

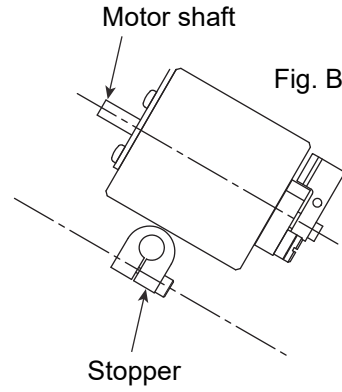
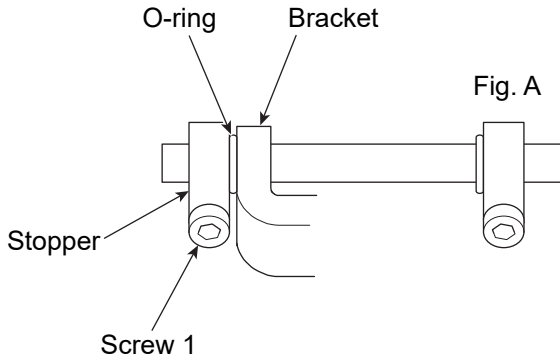


(13) Adjust right/left position of the 1st color sequin so that the needle tip locates at the center of the sequin hole.

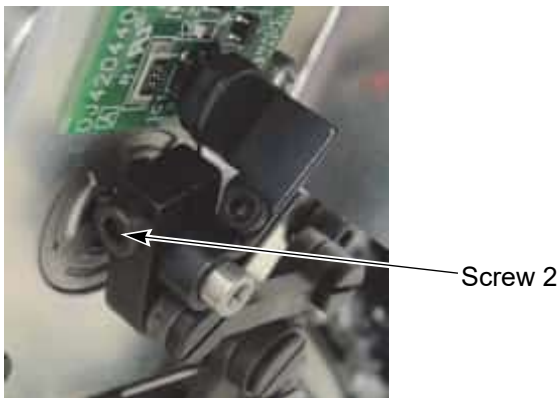


- (14)** At the 1st color sequin, touch the stopper to the bracket lightly and tighten the screw 1 in the state that the tip of the needle locates at the center of the sequin. (Figure A)

Set the direction of the stopper in parallel to the motor shaft. (Figure B)

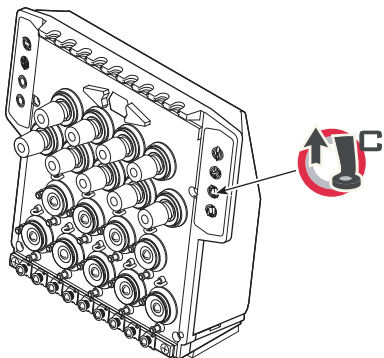


Next, tighten the screw 2 in this state.

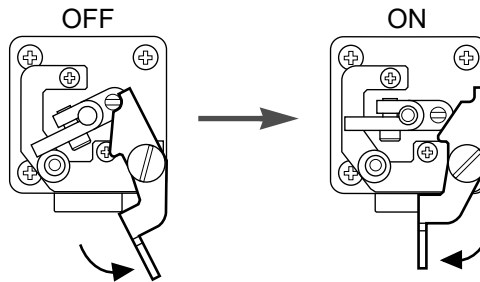


After that, check if there is no play in right/left direction of the sequin unit.

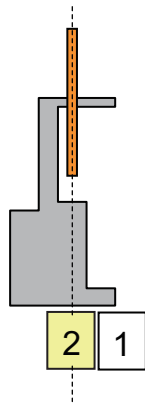
- (15)** For the model with LCD operation panel (excluding TMCR-VF), press C switch. The presser foot and needle bar will be raised.



For TMCP-VF, TLMX mixed type, and TCMX mixed type, turn OFF/ON the clutch on the left side of the arm. The presser foot and needle bar will be raised.

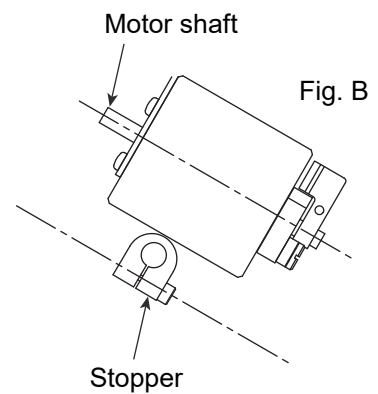
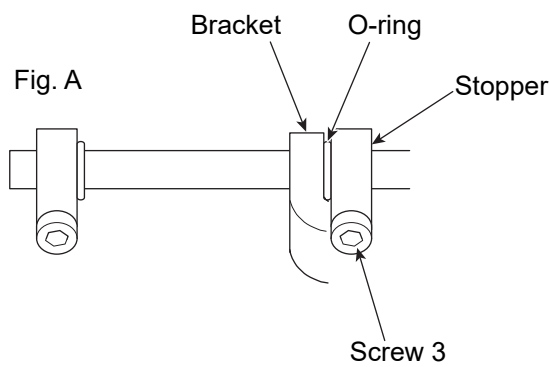


- (16) Perform Color change to the 2nd color sequin by the operation of the color change switch. (→ p.28)



- (17) Tighten the screw 3 with the stopper touched the bracket lightly. (Figure A)

Set the direction of the stopper in parallel to the motor shaft. (Figure B)



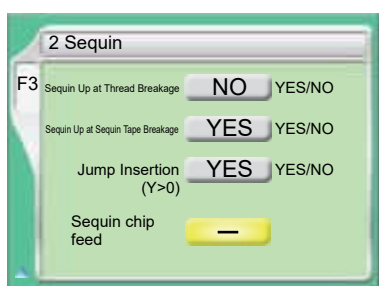
After that, check if there is no play in right/left direction of the sequin unit.

- (18) Change to the following parameter setting.

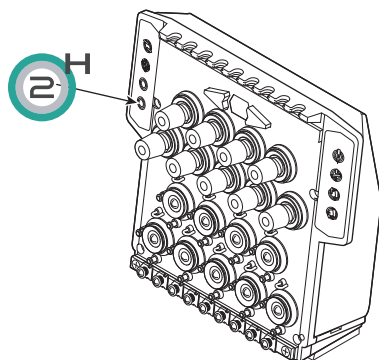
Model with LCD operation panel: 5. To feed sequins one by one manually (→ p.59)



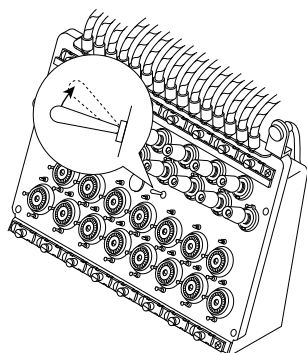
TLMX mixed type, TCMX mixed type: 5. To feed sequins one by one manually (→ p.70)



(19) Feed out 1 pce of sequin chip by the switch on the tension base.

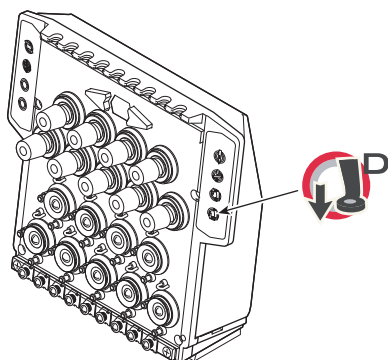


[Model with LCD operation panel (excluding TMCR-VF)]
Press H switch.



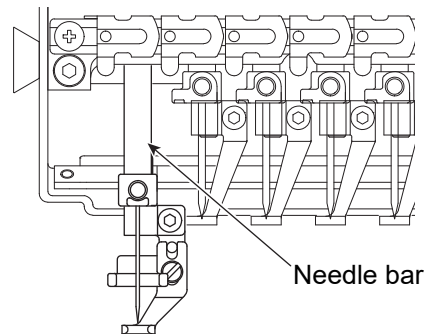
[TLMX mixed type, TCMX mixed type]
Raise the switch on the tension base.

(20) For the model with LCD operation panel (excluding TMCR-VF), press D switch on the tension base once. The presser foot will lower to the frame back position.



This work is not necessary for TMCP-VF, TLMX mixed type, and TCMX mixed type. Proceed to the next procedure.

(21) Lower the needle bar by hand.



The presser foot is moving down.

The left figure is for TMCR-VF.

For TMCP-VF, TLMX mixed type, and TCMX mixed type, the figure is different.

[Model with LCD operation panel (excluding TMCR-VF)]

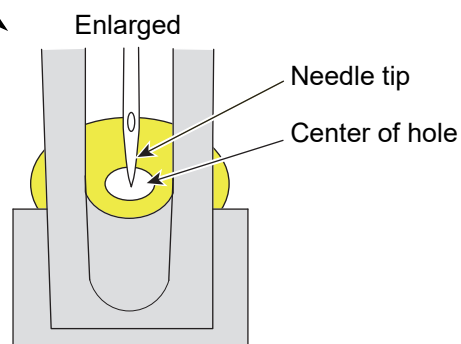
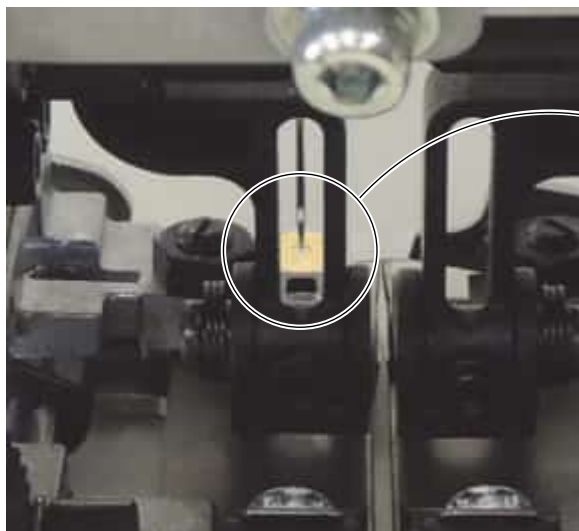
While the presser foot is moving down, Color Change and Up/down operation of the device is not available. If Color change or Up/down operation is performed, the code No. 376 appears on the operation panel.

(22) Loosen the screw D.

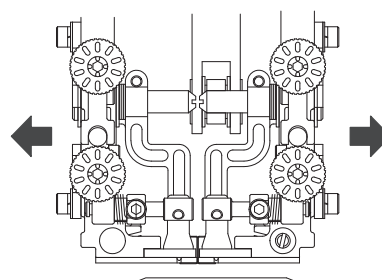


Screw D

- (23)** Adjust the position of the sequin unit by turning the screw E so that the needle tip locates at the center of the sequin hole.

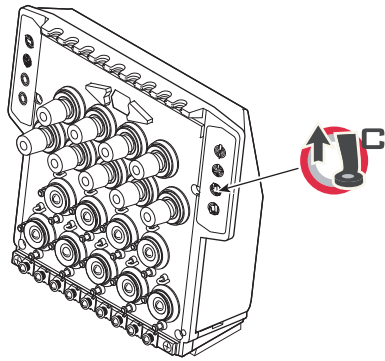


If you turn the screw E, the sequin unit can be moved to right and left.

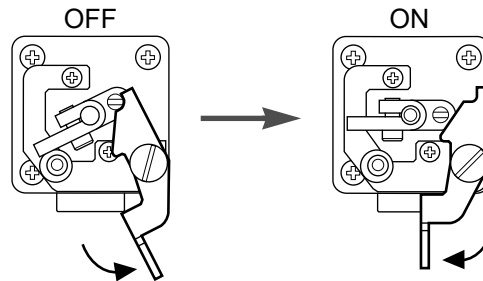


- (24)** After adjusting, tighten the screw D. (→ p.50)

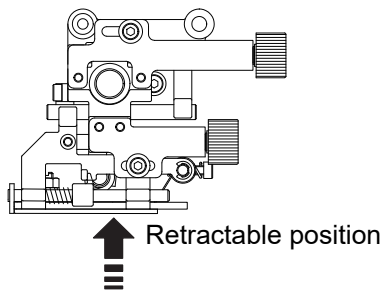
- (25)** For the model with LCD operation panel (excluding TMCR-VF), press C switch. The presser foot and needle bar will be raised.



For TMCP-VF, TLMX mixed type, and TCMX mixed type, turn OFF/ON the clutch on the left side of the arm. The presser foot and needle bar will be raised.



- (26)** Set the device to the retractable position by the operation of Up/down switch. (→ p.25)



- (27)** Pull out sequins from the sequin unit.
- (28)** Return the movable knife of the 1st color sequin and the 2nd color sequin to the previous position. After returning the movable knife, check if the movable knife moves normally by pushing with finger.

Chapter 3 Setting of operation panel

(TMCR-VF, TMCP-VF, TMAR-KC TYPE-2, TMEZ-SC, TMEZ-KC)

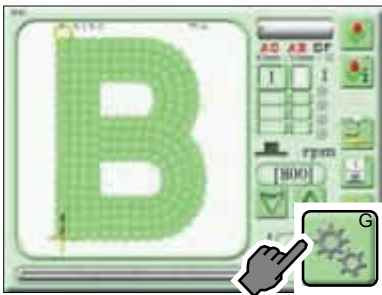
1. Basic settings

To actuate the device, it is necessary to set the following settings.

[How to operate]

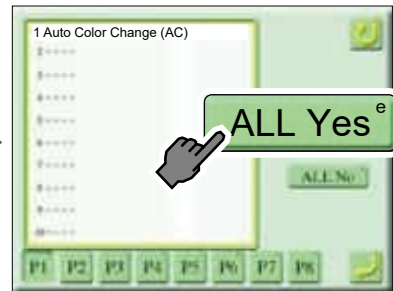
The following explanation is the example when the functional limit level is "1". For the details of functional limit level, refer to the chapter "Parameter" in the user's manual

(1) Icon G

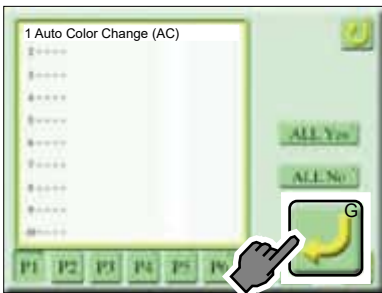


After that, release the functional limit level.

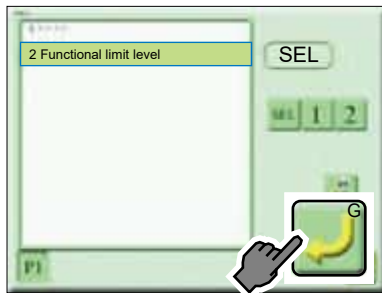
(2) ALL Yes



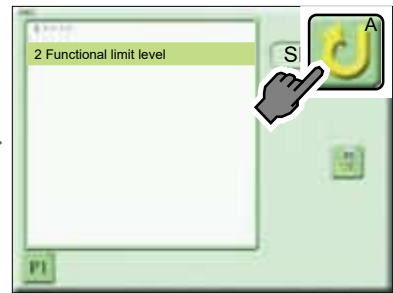
(3) To set



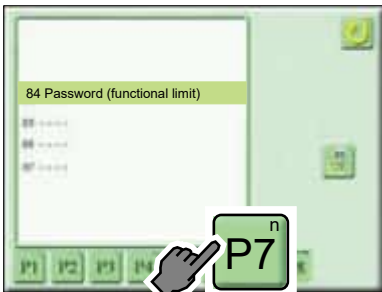
(4) To set



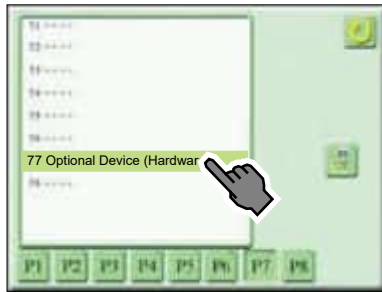
(5) Icon A



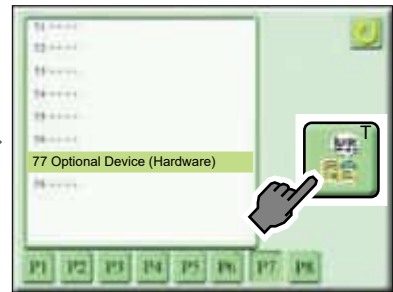
(6) P7



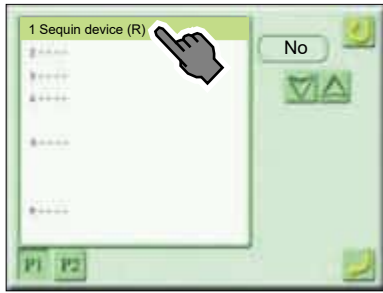
(7) 77 Optional Device (Hardware)



(8) Icon T

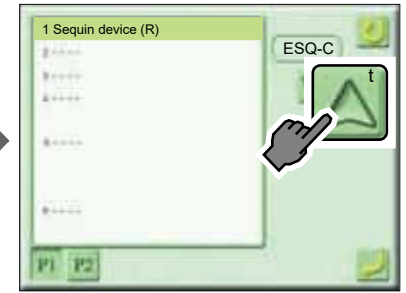


(9) 1 or 2

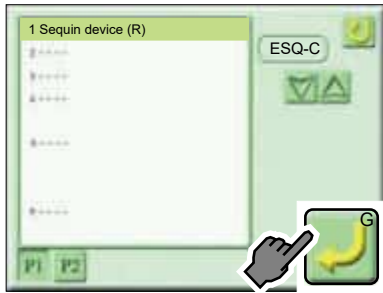


1 Sequin device (R): To equip to the right side
2 Sequin device (L): To equip to the left side

(10)ESQ-C



(11)To set



2. Setting of sequin chip feed amount

Set sequin feed amount.

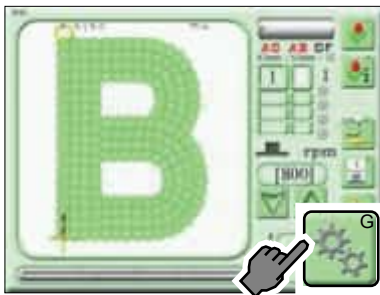
Rough standard of sequin feed amount is +1.0 mm for sequin size. Select the feed amount according to the outer diameter of sequin. Rough standard of the feed amount is shown in the chart below.

Outer diameter (mm)	Feed amount (mm)
2	3.0
3	4.0
4	5.0
5	6.0
7	8.0
9	9.9

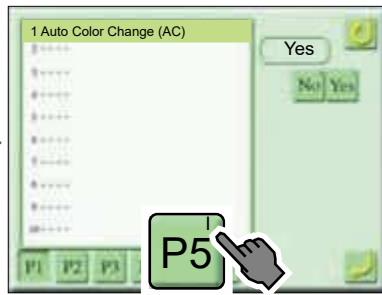
[How to operate]

The following explanation is the example of setting sequin feed amount of the 1st color sequin at the right side device when the functional limit level is "1",

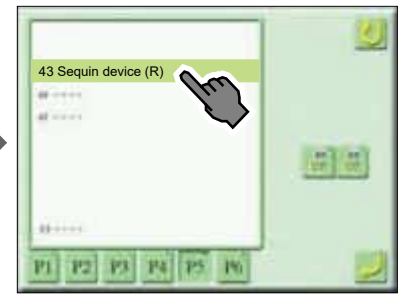
(1) Icon G



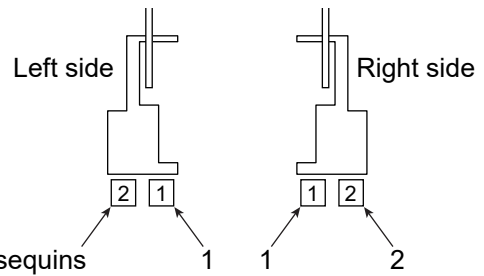
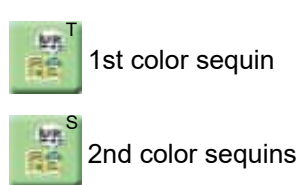
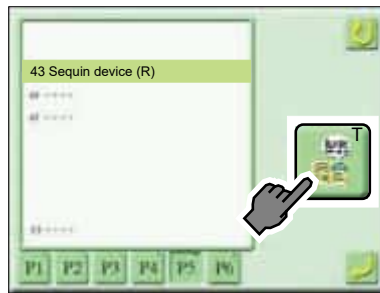
(2) P5



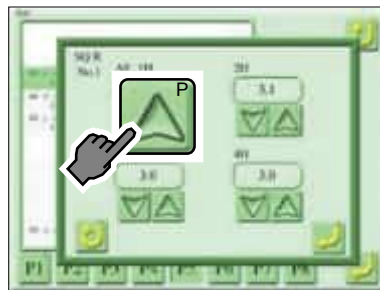
(3) 43 Sequin device (R)



(4) Icon T



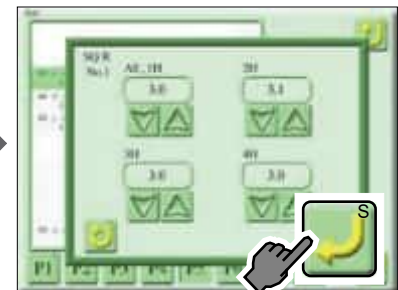
(5) Input the value of ALL, 1H



When using head group, it is possible to set individually.

For details of head group, refer to the user's manual of the machine.

(6) To set



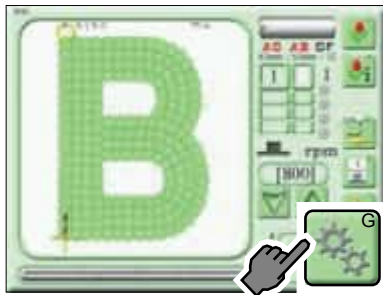
3. Insertion of Jump at Sequin

Select whether one stitch of non-data jump code is inserted before or after sequin output or not.

[How to operate]

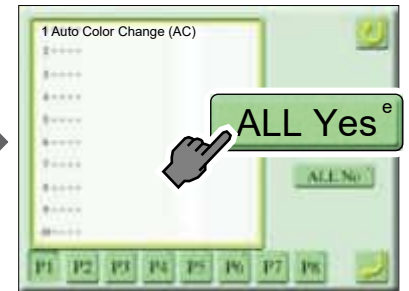
The following explanation is the example that the functional limit level is "1" and "After output" is set to "Yes".

(1) Icon G

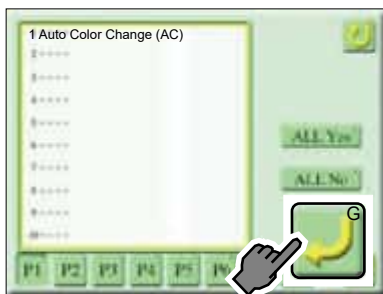


After that, release the functional limit level.

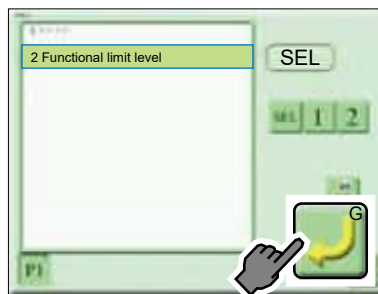
(2) ALL Yes



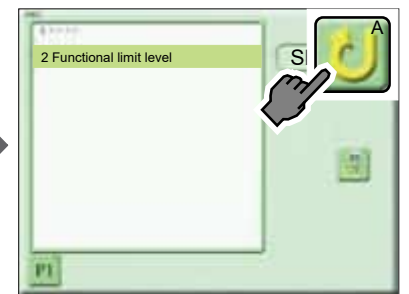
(3) To set



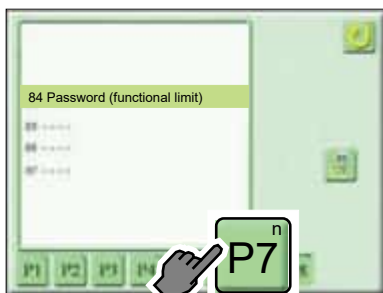
(4) To set



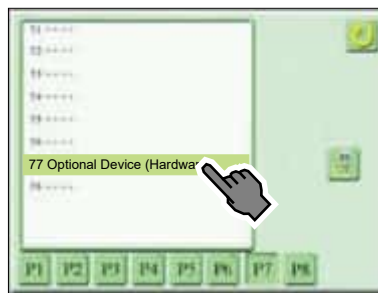
(5) Icon A



(6) P7



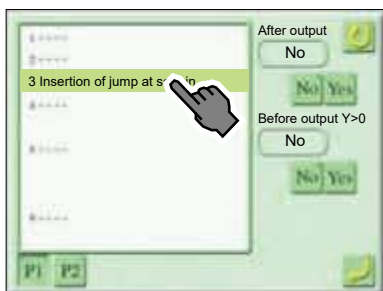
(7) 77 Optional Device (Hardware)



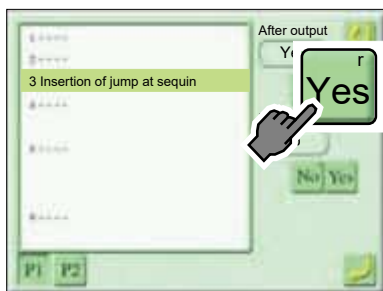
(8) Icon T



(9) 3 Insertion of jump at sequin



(10) Set "After output" to "Yes"



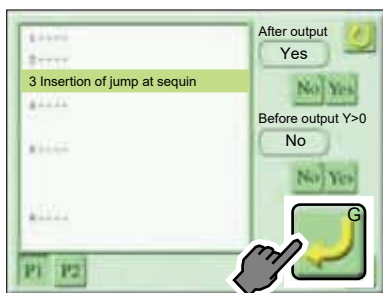
[After output]

Select whether one stitch of non-data jump code is inserted just after sequin feed (output) or not. When you want to tighten thread forcibly after sequin feed, select "Yes". Usually select "No".

[Before output Y>0]

When color changing is overlapped with frame travel of Y-axis data (0.1 mm or more) , select whether one stitch of non-data jump code is inserted or not. If the thread breakage is increased depending on the design or embroidering direction when the movable knife guard is detached, select "Yes". This function inserts a non-data jump code to prevent the thread breakage.

(11) To set



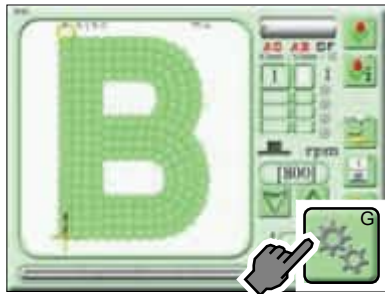
4. Auto lifting - Sequin device

Select whether sequin device moves up automatically or retracts at ATH working by frame stepping.

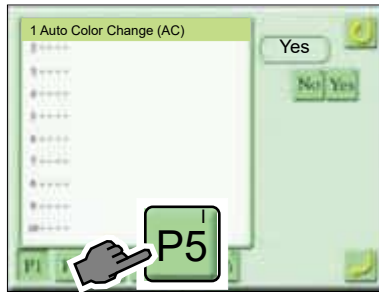
[How to operate]

The following explanation is the example that the functional limit level is "1", and the device is raised automatically at ATH working by frame stepping and at thread breakage.

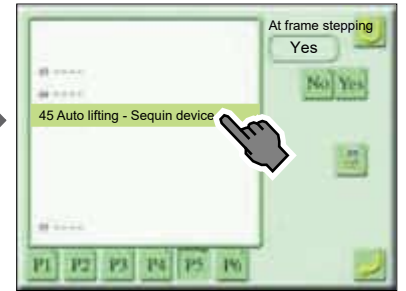
(1) Icon G



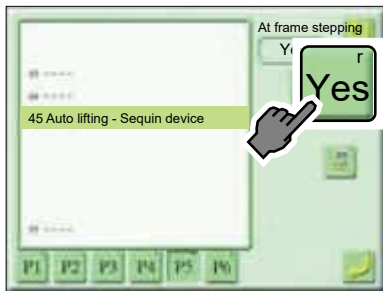
(2) P5



(3) 45 Auto lifting - Sequin device



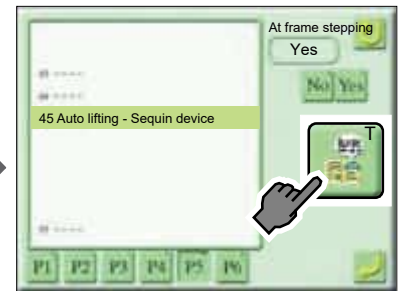
(4) Move up automatically



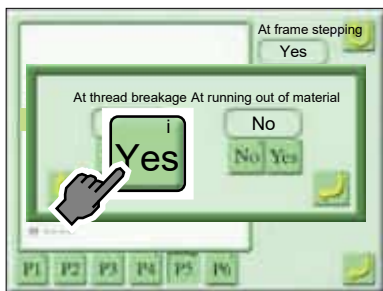
No:
The device stays at the lower dead point during ATH working. (Hook does not work.)

Yes:
The device retracts to the middle point during ATH working. (Hook works.) (Recommended)

(5) Icon T



(6) Yes



At upper thread breakage

No: Not to raise the device

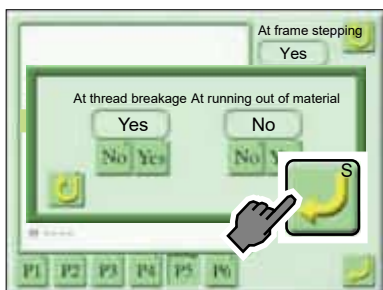
Yes: To raise the device to the upper dead point (Recommended)

At running out of material

No: Not to raise the device

Yes: To raise the device to the middle point (Recommended)

(7) To set



5. To feed sequins one by one manually

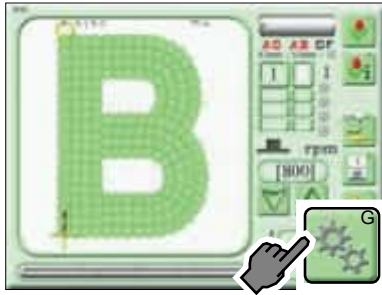
When adjusting the sequin cut position or needle locating position, feed sequins by the following operation.

The feed amount of sequins is applied by the value of "Setting of sequin chip feed". (→ p.55)

The following explanation is the example when the functional limit level is "1".

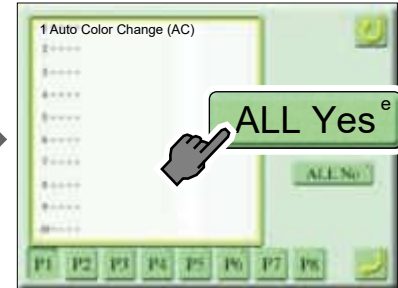
(1) Perform Color Change to the needle equipped with the device.

(2) Icon G

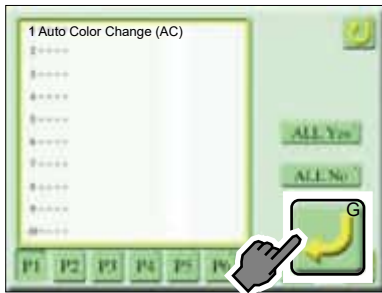


After that, release the functional limit level.

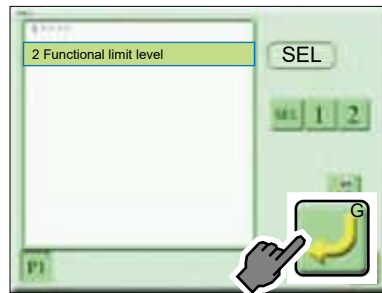
(3) ALL Yes



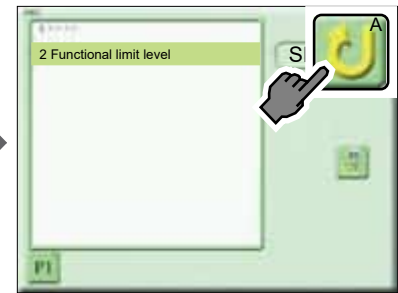
(4) To set



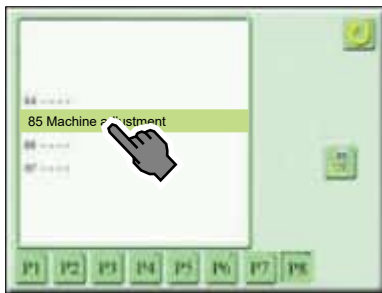
(5) To set



(6) Icon A



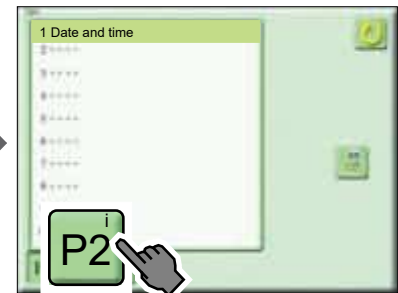
(7) 85 Machine adjustment



(8) Icon T



(9) P2



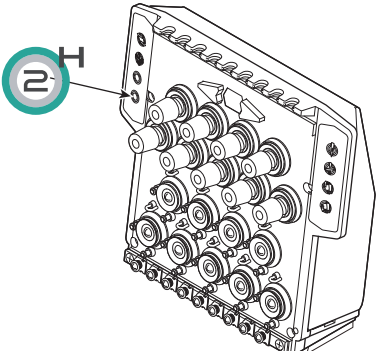
(10) Sequin chip feed



(11) Chip Feed



(12) Press H switch at the tension base. Sequins will be feed out.

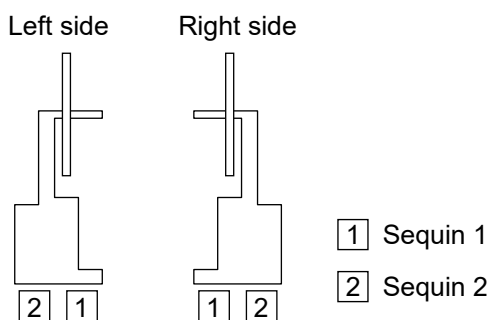


(13) To finish



6. To replace Sequin 1 with Sequin 2 (Step unit)

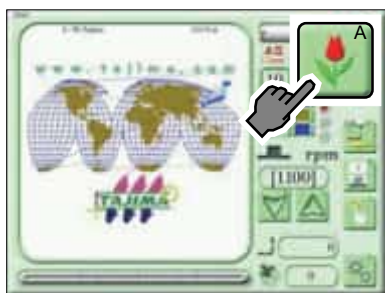
Reverse Sequin 1 and Sequin 2 of the Sequin Device by step unit of needle bar. This function is available only for ESQ-C.



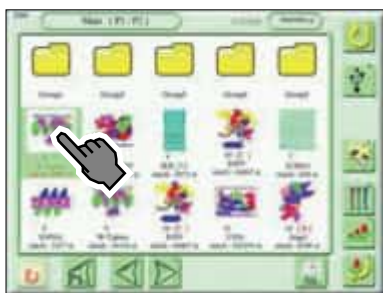
[How to operate]

Example: Reverse sequin embroidery of step 6 of the right side Sequin Device.

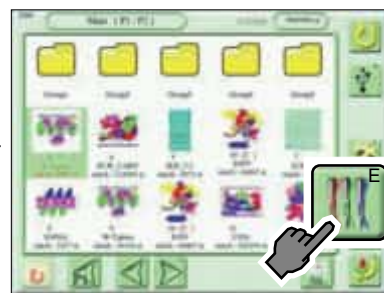
(1) Icon A



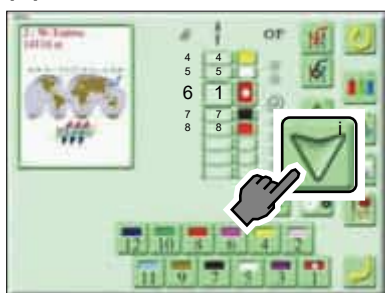
(2) Design



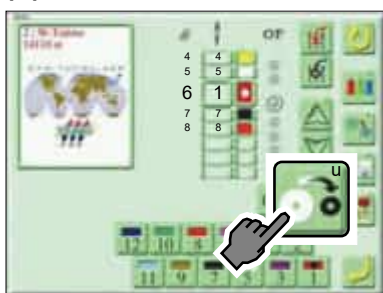
(3) Icon E



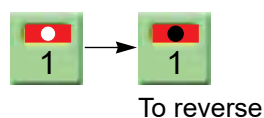
(4) Step 6



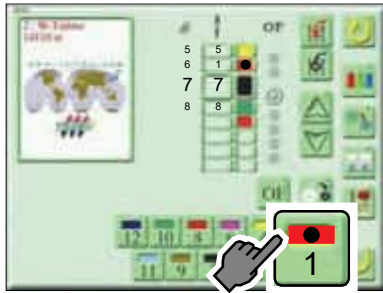
(5) Icon u



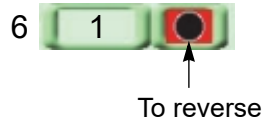
If icon u is pressed, the display of the needle bar icon of the 1st needle will be switched.



(6) Needle bar No. 1

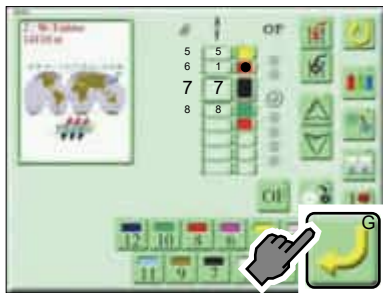


If the needle bar No.1 is pressed, step 6 will be switched on the display as shown below.



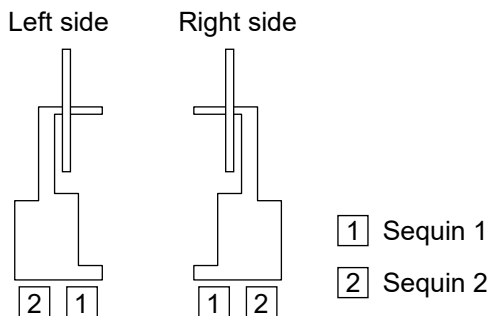
○ Not to reverse	Sequin 1 will be output by sequin output signal 1. Sequin 2 will be output by sequin output signal 2.
● To reverse	Sequin 2 will be output by sequin output signal 1. Sequin 1 will be output by sequin output signal 2.

(7) To set (Completed)



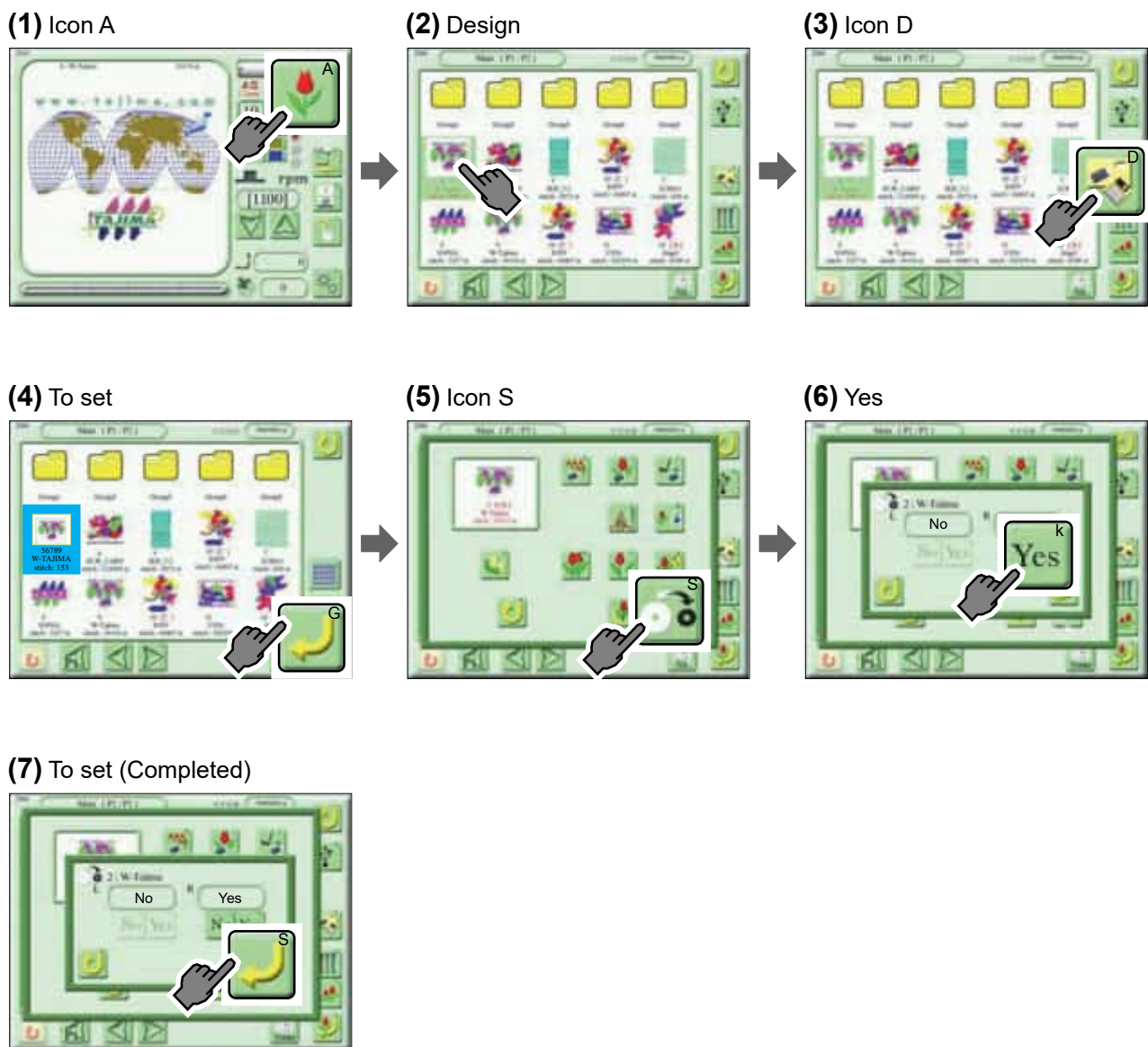
7. To replace Sequin 1 with Sequin 2 (Design data in a batch)

Reverse Sequin 1 and Sequin 2 of the Sequin Device together with the design data in a batch. After reversing, the design data will be overwritten. This function is available only for ESQ-C.



[How to operate]

Example: Reverse sequin embroidery of the right side Sequin Device in a batch.



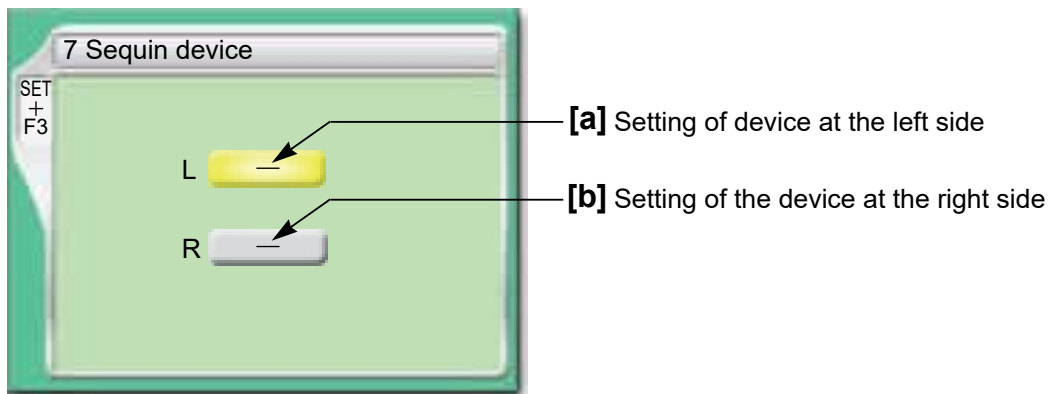
After that, perform the data set for this design.

Chapter 4 Setting of operation panel (TLMX mixed type, TCMX mixed type)

1. Basic settings

To actuate the device, it is necessary to set the following settings.

[Explanation of screen]



[a] Type of Sequin device equipped to left side

—: Not to use the device

SQ: High speed Sequin device

SQ3: Sequin device III (Up/down-by-motor type)

SQ4: Sequin device IV (Up/down-by-air type)

ESQ-C: ESQ-C

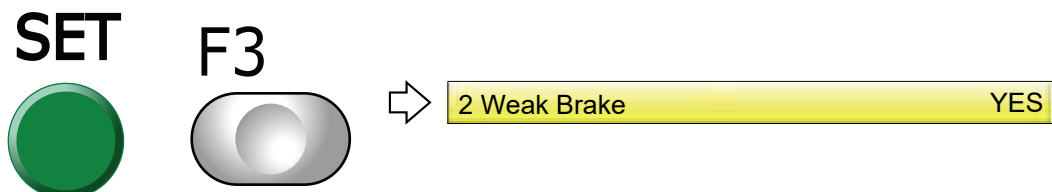
[b] Type of Sequin device equipped to the right side

The contents of settings are the same as [a].

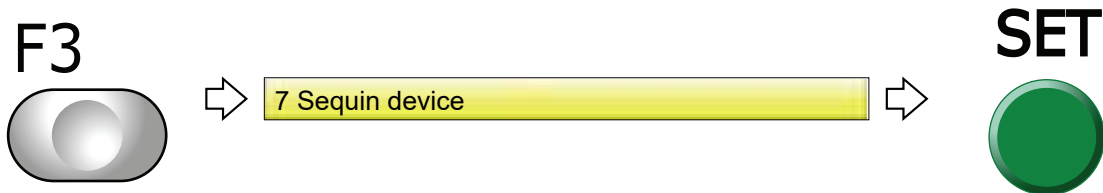
[How to operate]

(1) Set to main screen.

(2) To press F3 key while pressing SET



(3) To press F3 key

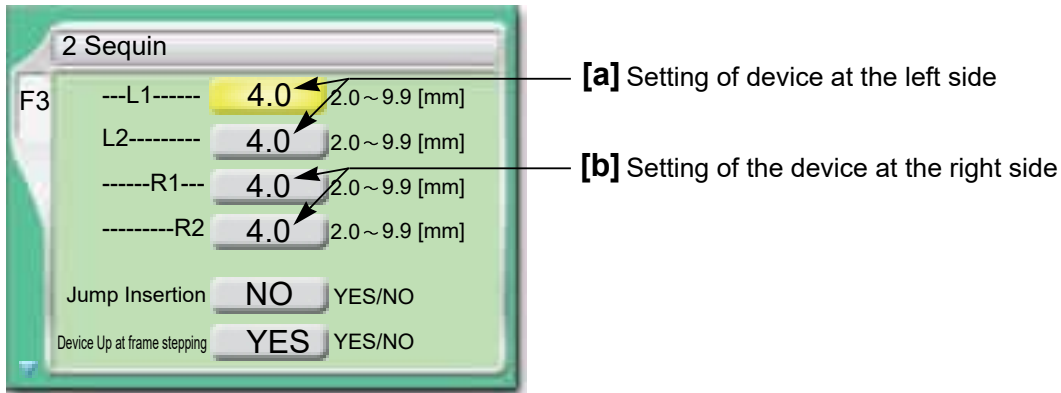


(4) To select type of sequin



2. Setting of sequin chip feed amount

[Explanation of screen]

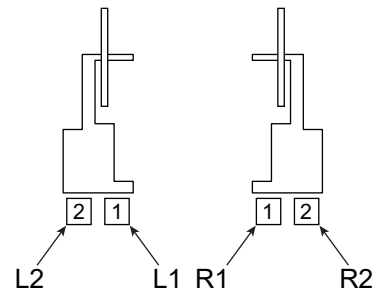


[a] Feed amount of sequin chips for each device L1 and L2 at the left side (refer to the right figure)

Select a value that adds about 1.0 to an external diameter of chip as a rough standard.

[b] Feed amount of sequin chips for each device R1 and R2 at the right side (refer to the right figure)

Select a value that adds about 1.0 to an external diameter of chip as a rough standard.

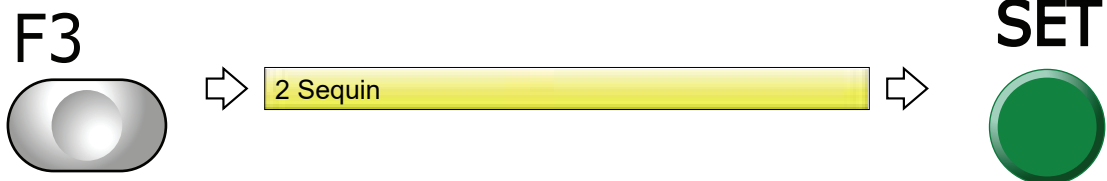


[How to operate]

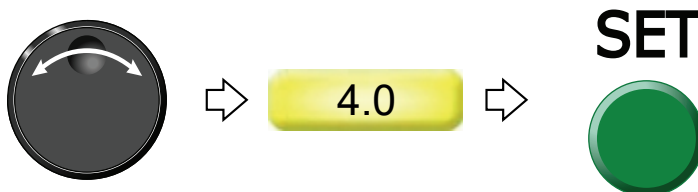
This is an example of setting in the following conditions.

Feed amount of sequin chips of device (L1) at left side: 4.0

(1) To open screen

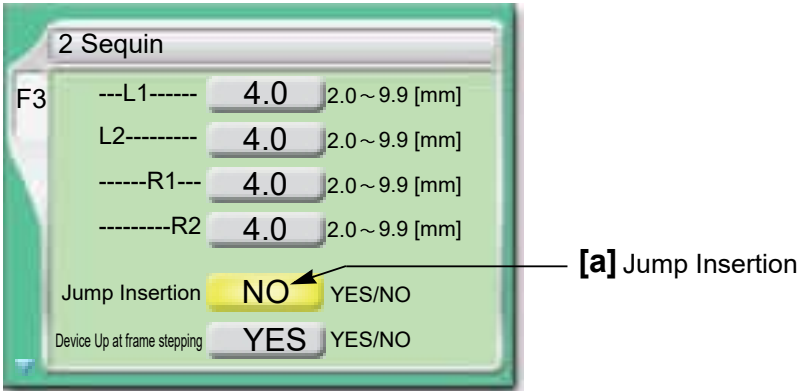


(2) To select feed amount of sequin chips of device (L1) at the left side



3. Insertion of Jump at Sequin

[Explanation of screen]



[a] Insertion of jump data when a sequin chip is sewn on

Select "YES" when sequin chips are not sewn effectually. However, productivity will be decreased.

YES: To perform

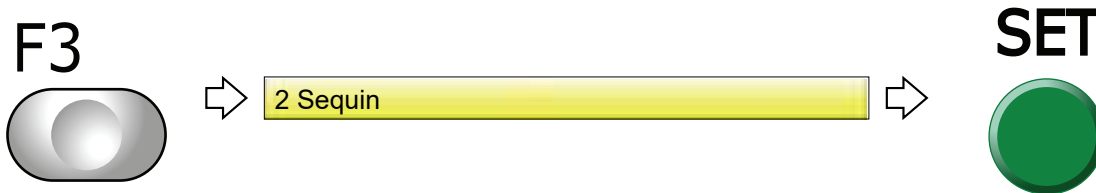
NO: Not to perform

[How to operate]

This is an example of setting in the following conditions.

Insertion of jump data: To perform

(1) To open screen



(2) To move the cursor to "Insertion of jump at sequin".

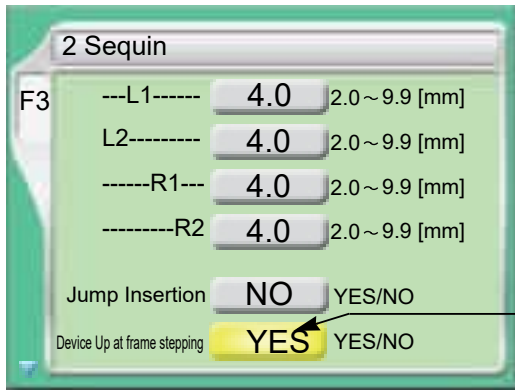


(3) To insert jump data

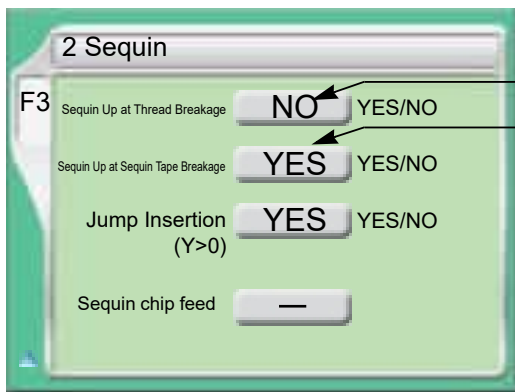


4. Auto lifting - Sequin device

[Explanation of screen]



[a] Moving up of device



[b] Moving up of device

[c] Moving up of device

[a] Moving up of device at frame stepping

YES: To perform

NO: Not to perform

[b] Moving up of device at thread breakage

YES: To perform

NO: Not to perform

[c] Moving up of device when sequin chip runs out

YES: To perform

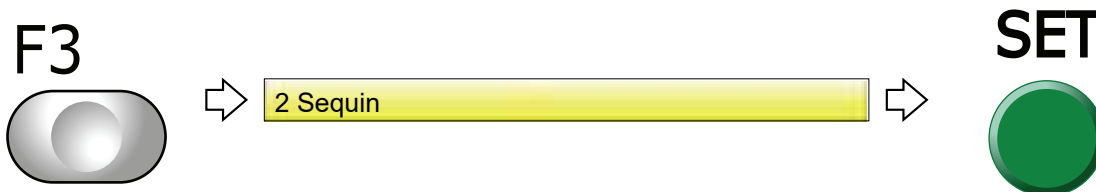
NO: Not to perform

[How to operate]

This is an example of setting in the following conditions.

Moving up of device at frame stepping: To perform

(1) To open screen



(2) To move the cursor to "Device Up at frame stepping"

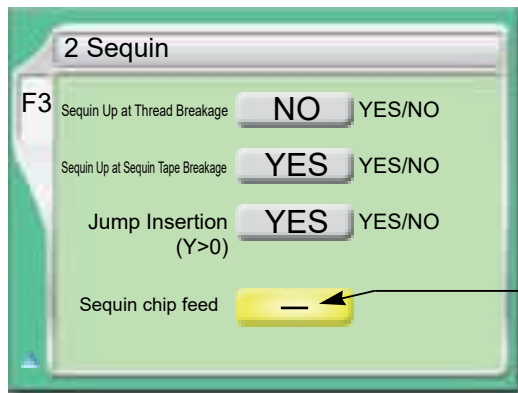


(3) To move up device at frame stepping



5. To feed sequins one by one manually

[Explanation of screen]



[a] To feed sequin chips one by one

[a] To feed sequin chips one by one

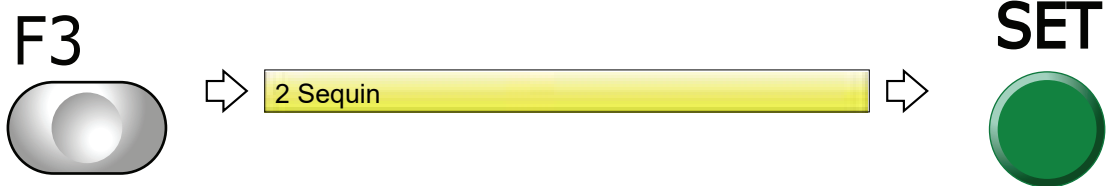
[How to operate]

⚠ CAUTION

⊘ When performing this operation, do not put your hands etc. near the needle or on the machine table. You could be injured by up/down of the device or moving right and left of the needle bar case.

The following is the example of feeding out sequin chips of the right side Sequin device one by one.

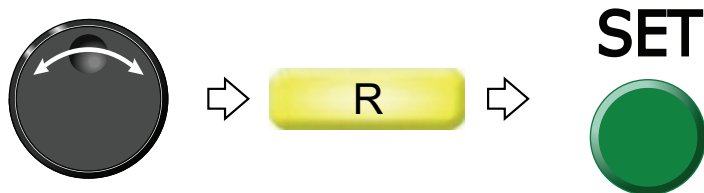
- (1) Set the tension base switch to "Middle" position. (It should not be suspended head.)
- (2) To open screen



- (3) To move the cursor to "Sequin chip feed"



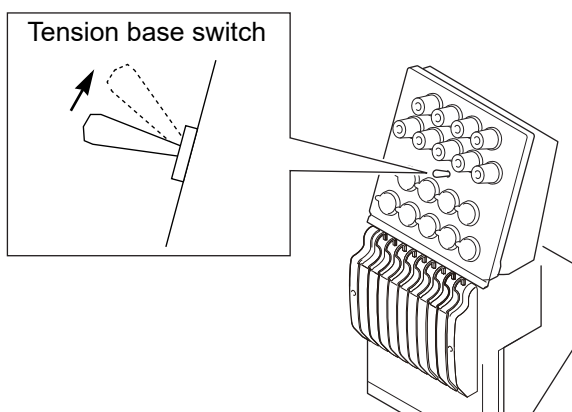
(4) To select R (Right-side Sequin device)



Pressing SET will perform color change to the sequin needle.

(5) To feed sequin chips

Every time raising the tension base switch will feed out sequin chips one by one.



Chapter 5 Troubleshooting

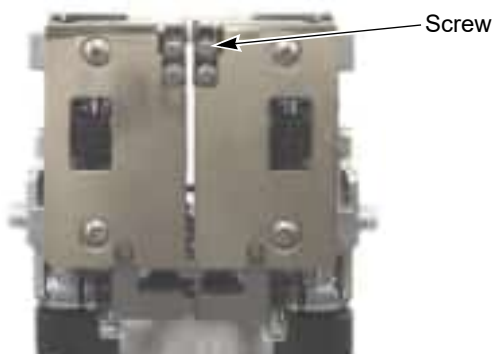
1. Cause and remedy

Contents of trouble	Cause	Remedy
Sequins are not sewn.	Skip stitching	Adjust the clearance between needle and rotary hook when they meet together to adjust lock stitching.
	Needle does not locate to the center hole of sequin.	Perform the following adjustments. 4-2. Needle locating position (back and forth)(→ p.33) 4-4. Needle locating position (right and left)(→ p.41)
	Movable knife does not return and sequins are clogged.	Clean the section of movable knife for smooth movement. Open/close the movable knife.(→ p.38)
	R.P.M. is too fast.	Decrease R.P.M.
Cut face is misaligned.	Cut position of sequin is not normal.	Perform the following adjustments. 4-1. Sequin cut position(→ p.29)
	Unevenness of pitch of sequins	Check pitch of sequins.
Thread breakage	Needle is too thick against the center hole of sequin.	Replace with the regular needle.
	Thread touches movable knife, etc.	Check if thread pass the regular thread course. Clean the section of movable knife for smooth movement.
Misfeeding of sequins	The setting of sequin feed amount is wrong.	Perform the following setting. 2. Setting of sequin chip feed amount (→ p.55) 2. Setting of sequin chip feed amount (→ p.66)
Sequins are turned over.	The head of the screw at the bottom of the fixed knife turns over sequins.	Perform the following work. 1-1. When sequins are turned over(→ p.73)
The sequin position is displaced to right and left.	The pressure guide plate spring does not press sequins evenly.	Perform the following work. 1-2. When sequin position is displaced to right and left(→ p.74)

1-1. When sequins are turned over

Sequins may be turned over by the head of screw positioned at the bottom of the fixed knife of the device according to design, shape of sequin and sewing direction, which has a disadvantage for embroidery. In this case, manage the problem with the following procedure.

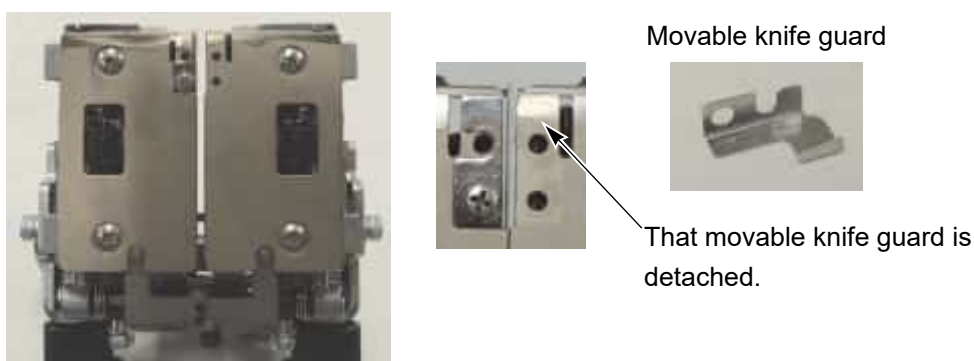
- (1) Remove the screw at the position (the 1st sequin or the 2nd sequin) where sequins are turned over.



- (2) If the problem is not solved yet even by the method described above, remove another screw.



- (3) If the problem is not solved yet even by the method described above (2), detach the movable knife guard at the position where sequins are turned over.



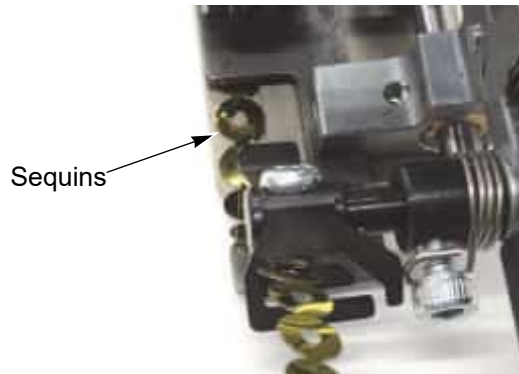
- (4) When thread breakage is increased by the method described above

Set "After output → NO", "Before output Y>0 → YES" of sequin jump insertion by panel setting.

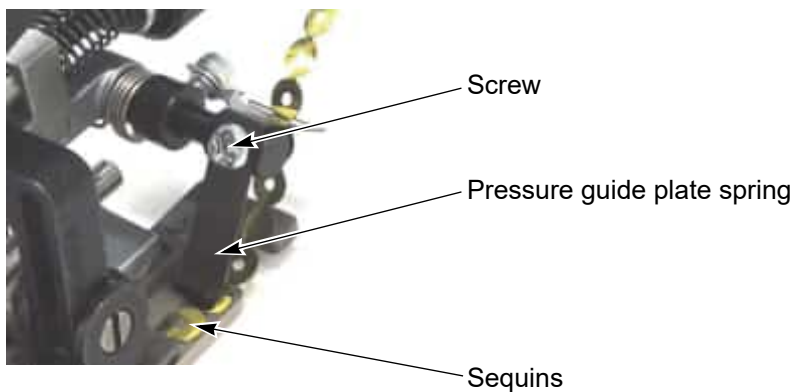
1-2. When sequin position is displaced to right and left

In the middle of sewing, the sequin position is displaced to right and left as shown in photos below, and it may cause bad effect on the embroidery. In that case, manage the problem in the following procedure.

Example of displacing to the left



- (1) Detach R-side unit or L-side unit. (→ p.77)
- (2) Loosen the screw, and adjust the fixing position of the presser guide plate spring so that the presser guide plate spring will press sequins evenly.



2. Error code table

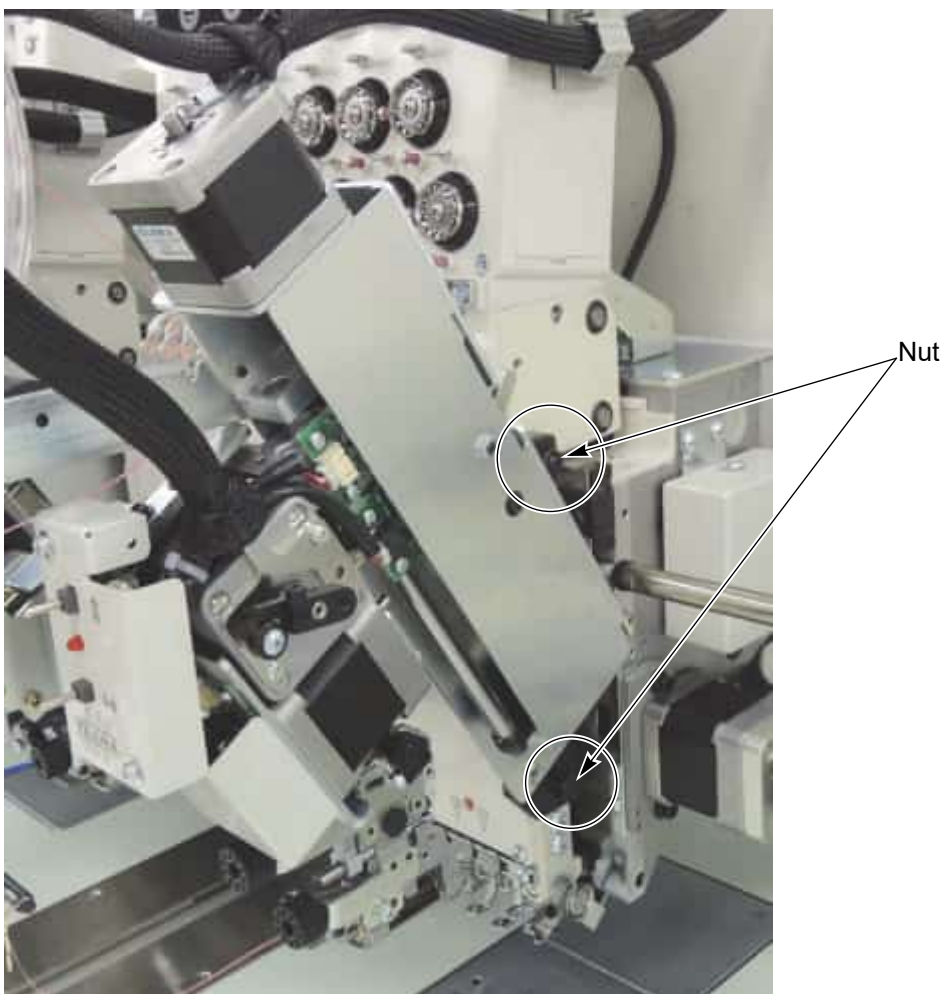
If a code number of 300 series is displayed, contact your local distributor.

258	Sequin device upper dead point sensor failure	Check/replace the upper dead point sensor.
259	Sequin device lower dead point sensor failure	Check/replace the lower dead point sensor.
25A	Sequin color change sensor failure	Check/replace the sequin color change sensor.
294	Running out of sequin material is detected.	Set the sequin material again.
353	Abnormality in sequin driver card	Check sequin driver card and its connection.
3B8	Communication error of color change sequin	Check sequin controller card and its connection.
3B9	Communication error of sequin driver card	Check sequin driver card and its connection. (Occurred only at turning ON the power).
3BA	Communication error of color change sequin	Check sequin controller card and its connection (Occurred only at turning ON the power).
5C2	Operation was performed during moving up/down of the Sequin device.	Do not start the machine during up/down of the device.
5C3	Sequin wrong setting	Check if the parameter setting is performed correctly.

Chapter 6 Maintenance


1. To detach the sequin device

- (1) To detach the sequin device for the maintenance of inside the arm, remove two nuts.
- (2) After that, perform the next works.
 1. Before using the device (→ p.12)
 4. Checking and adjustment of each section (→ p.29)



2. To detach or attach L side or R side unit

CAUTION

 L side or R side unit is shipped after adjusting each head. Do not attach the detached L side or R side unit to other head.

(1) Remove the screw.

L side unit



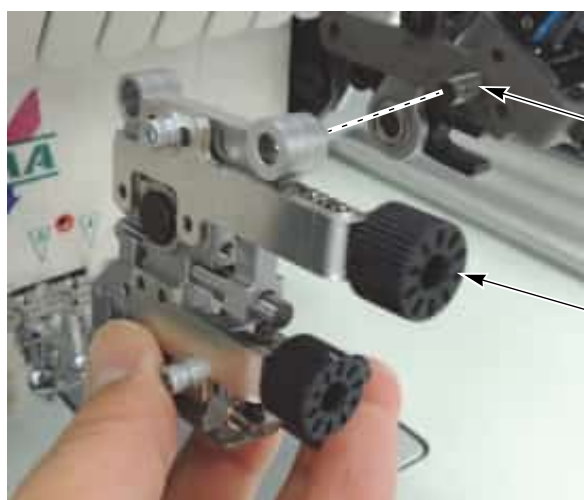
Screw

Screw

R side unit



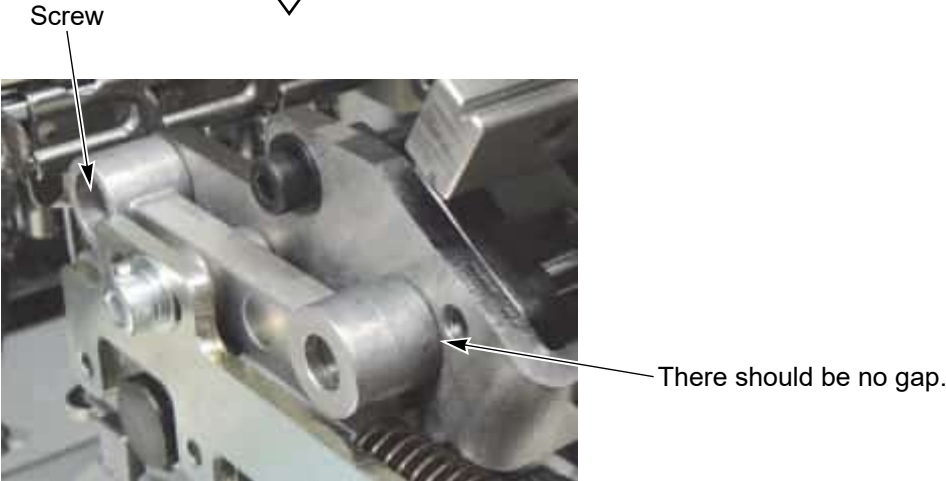
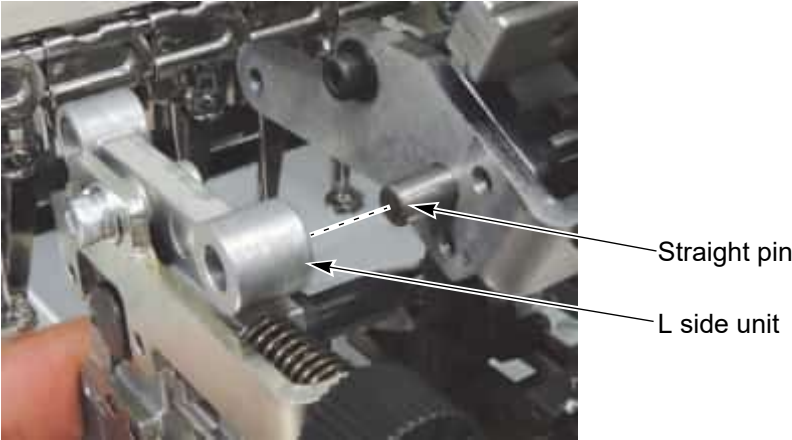
(2) Pull out L side unit from the straight pin to detach.



Straight pin

L side unit

(3) When attaching L-side unit (or R-side unit), insert L-side unit to the straight pin securely, and tighten the screw.



3. Lubrication and greasing

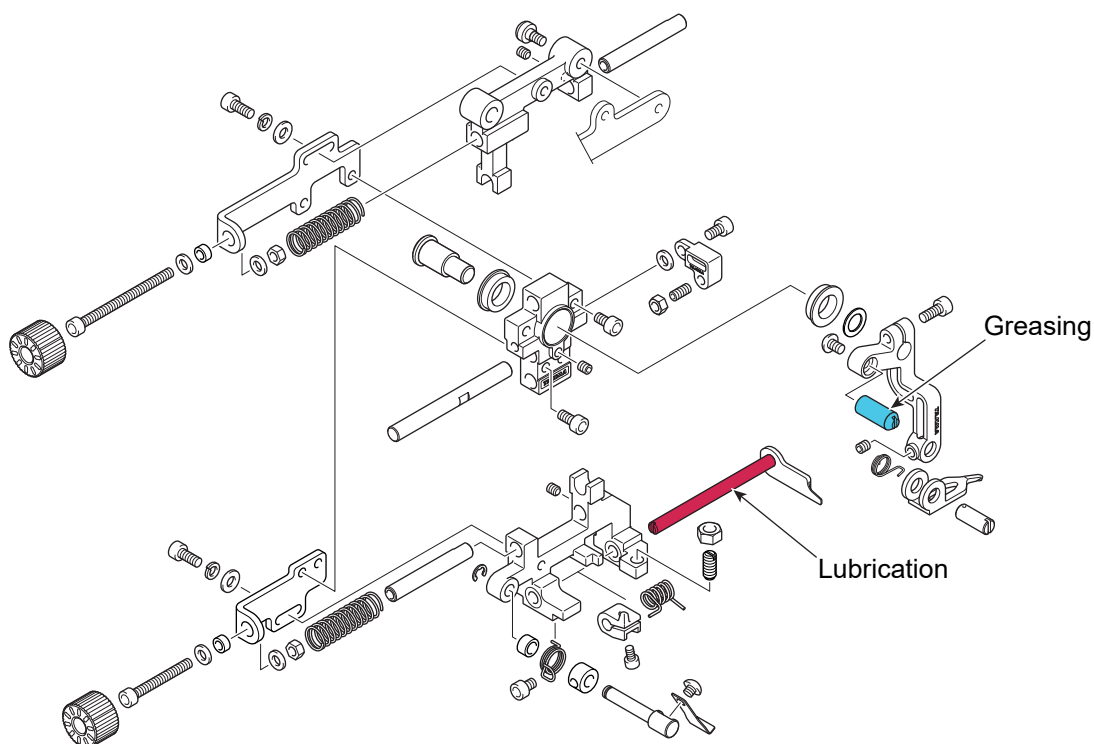
WARNING

- ! When you perform lubrication or greasing, turn OFF the power switch. You could be injured by moving machine.

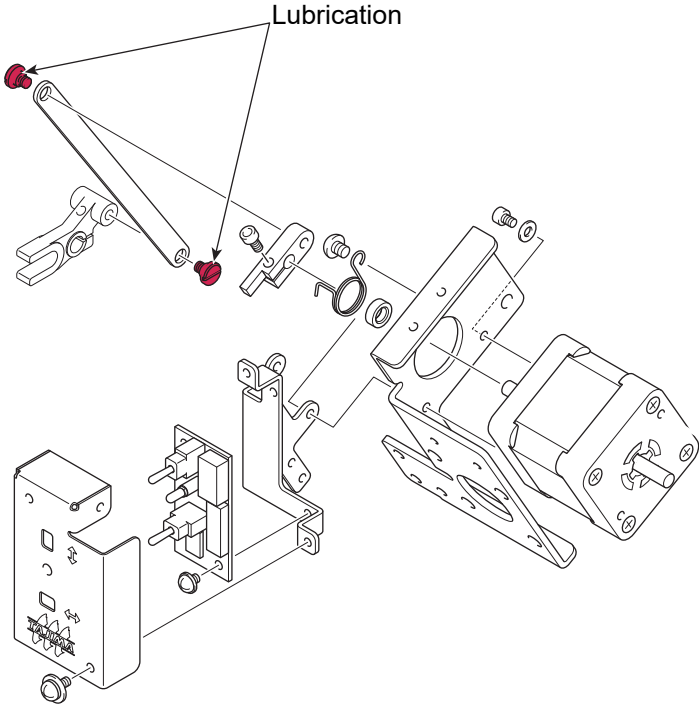
CAUTION

- ! Perform lubrication once per month and greasing once per six months.
- ! Keep the determined lubricating or greasing cycle strictly. If not, mis-cutting could occur or abrasion of parts could become faster.
- ! When performing lubrication, use only Tajima's genuine TF oil or equivalent (ISO viscosity grade=VG20).
- ! When performing greasing, consult the distributor.
- ! When performing greasing, use Tajima's genuine PG grease or the recommended goods (synthetic oil-based lithium grease) or equivalent.

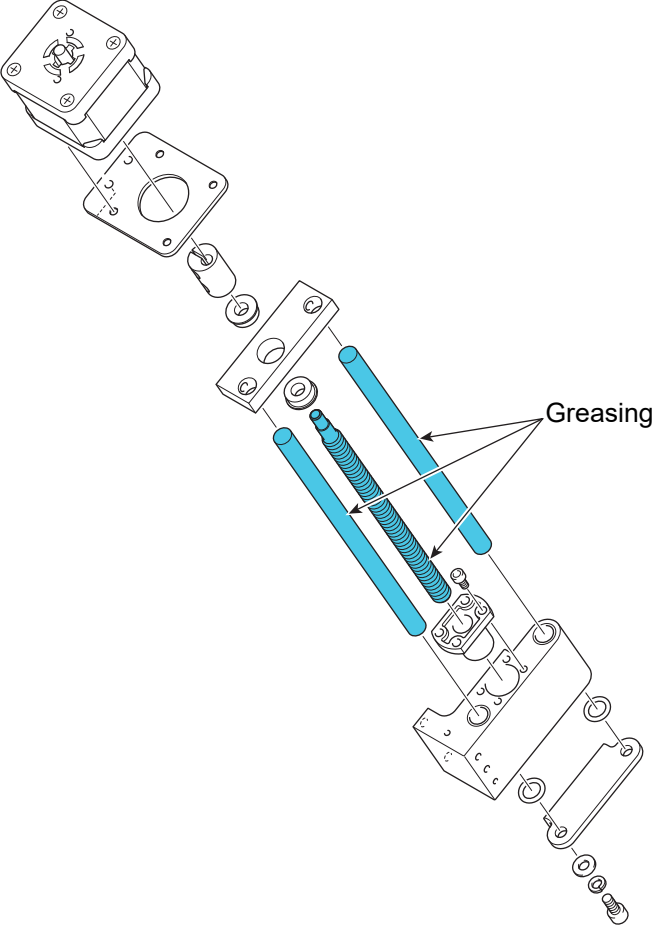
(1) Sequin unit



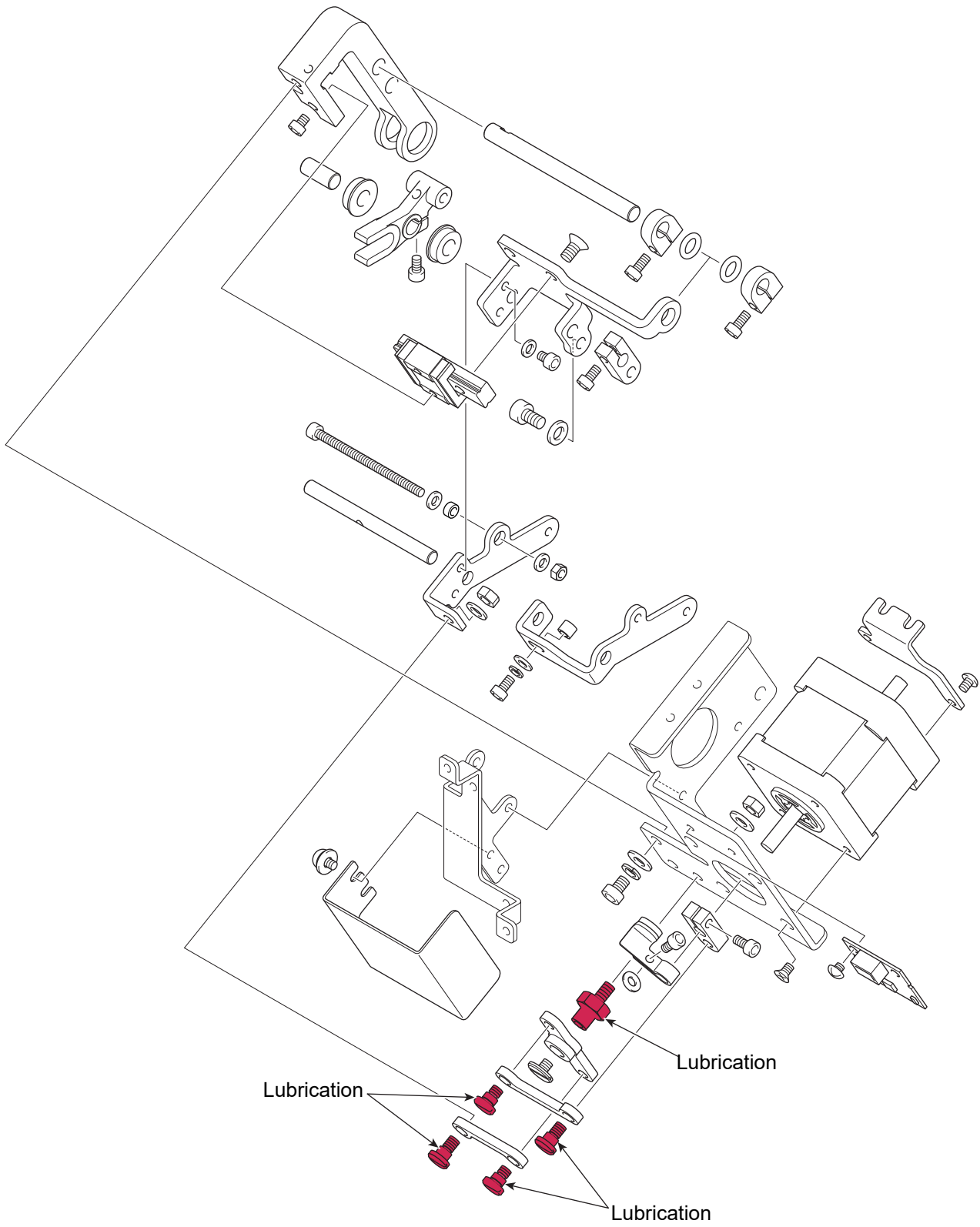
(2) Feed section



(3) Moving up/down section



(4) Switching section



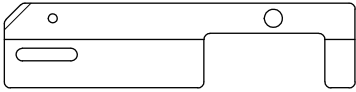
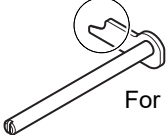
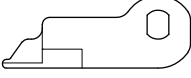
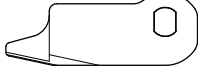
Chapter 7 Appendix

1. Beads cord embroidery

Replacing certain parts of the device allows embroidery of beads.

For details, consult the distributor.

The parts in the table below are required per unit.

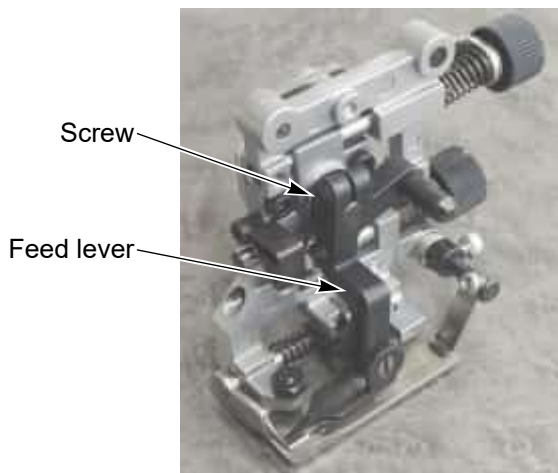
Part No.	Name	Shape
0L048056@000	GUIDE :BEADS :R or GUIDE :BEADS :L	The figure shows the R-side parts 
0L048047@S00	MOVABLE KNIFE :BEADS :R[S] or MOVABLE KNIFE :BEADS :L[S]	The figure shows the R-side parts  For beads, 2mm sequin  For sequin 


CAUTION

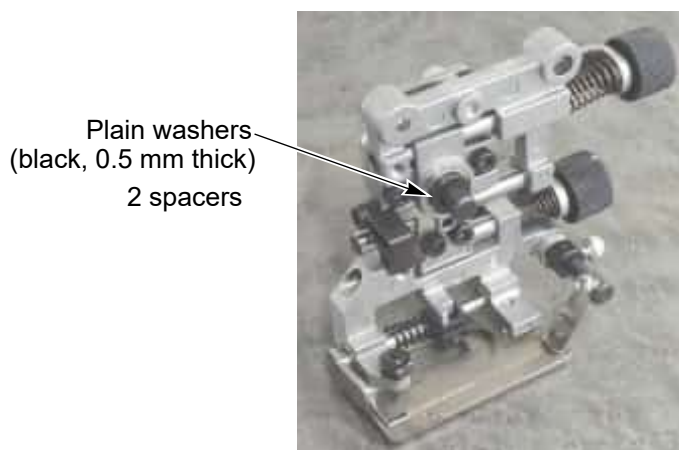
 This work must be performed by your local distributor.

Part replacement involves the following work. It is described below as reference information.

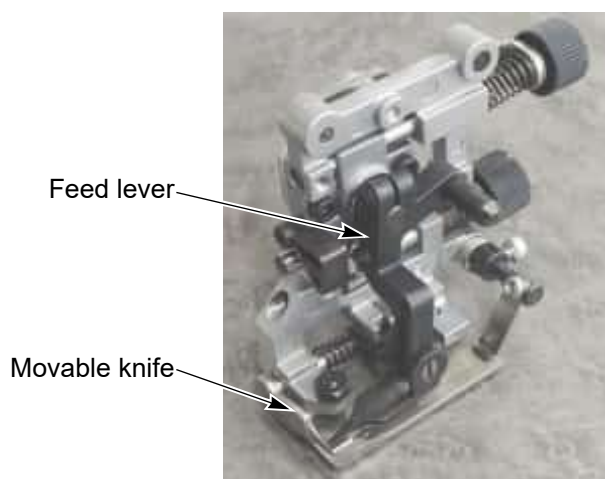
- (1) Loosen the screw to detach the feed lever.



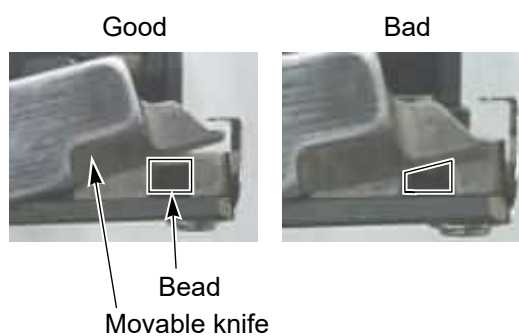
(2) Remove the two plain washers (black, 0.5 mm thick).



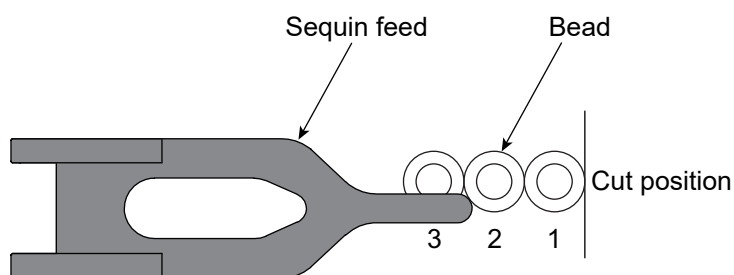
(3) Install the feed lever, which you removed in step (1), and replace the movable knife.



When replacing the movable knife, adjust the movable knife so that it does not come into contact with the beads.



(4) Adjust the position of the sequin feed so as to push out the second bead from the cut position.



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