



USER'S MANUAL

# Frame Change

TMEZ-SC, TMEZ-KC  
TMAR-KC TYPE-2  
TMBR2-SC, TMBP2-SC  
TMBP2-XC



# Foreword

Thank you for purchasing the TAJIMA embroidery machine.

Please read this manual thoroughly, understand the contents, and then use the machine.

This manual may contain discrepancies in detailed specifications when compared with the actual product. If you have any question, please ask the distributor for information.

## Purpose of This Document

This manual and other documents contain the following information. Refer to the necessary documents depending on the application and purpose. The user's manual and other documents are stored as PDF files on the supplied DVD.

### ■ USER'S MANUAL

#### For Safe Use

This manual contains instructions on using the machine safely. Make sure to read the manual before use.

#### Basics

This manual describes the basic knowledge and procedures that are common to all the models and required to use the machine.

If you are a novice to or unfamiliar with the machine, be sure to read this manual first.

#### Operation

This manual describes the procedures for operating the machine, performing embroidery, and performing maintenance.

#### Parameter Setting

This manual describes various parameters.

#### Frame Change (This Document)

This manual describes how to change the frames.

This does not come with some models.

#### Various Documents

Electrical system diagrams and other technical documents.

### ■ Other manuals

#### Quick Guide

This sheet is the Quick reference regarding embroidery methods as well as frequently used functions and their operation procedures.




Keep the Quick Guide handy so that you can reference it quickly.

#### Optional Device

This manual describes how to set up, operate, and maintain various optional devices.

# Safety Precautions and Symbols




Items that require your special attention on handling the machine are specified below.

Description	Meaning
 <b>DANGER</b>	Indicates that there is a lot of danger of death or serious injuries* <sup>1</sup> .
 <b>WARNING</b>	Indicates that there is a likelihood of death or serious injuries* <sup>1</sup> .
 <b>CAUTION</b>	Indicates a potentially hazardous situation which may result in minor or moderate injury* <sup>2</sup> or physical damage.



\*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.

The symbols used throughout this document have the following meanings.

Symbol	Meaning
	Item to be prohibited
	Items that may cause electric shock if not observed
	Items to keep safety

## Other Precautions

Description	Meaning
	Items that may affect sewing if not observed.
	Recommended and useful tips.

## Disclaimer, etc.

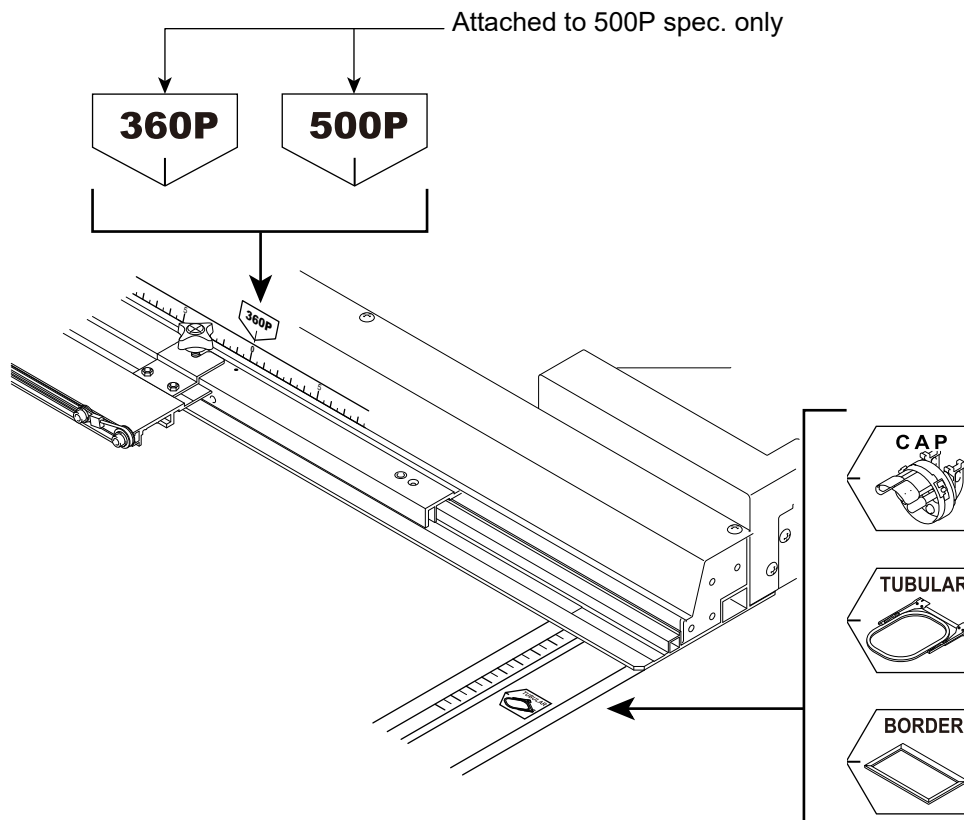
- The external views and specifications of the machine and the contents of this manual are subject to change without notice due to improvement.
- The screen captures and figures contained in this manual may differ depending on the machine specifications, the number of heads or needles, and the presence of optional device.
- TAJIMA bears no responsibility regarding any damage arising from not observing the instructions in the manual or any fault or damage resulting from repair, disassembly, or modification not indicated in the manual.
- You may not copy, reproduce, or transcribe a part or whole of this manual without consent of TAJIMA.

## About the Label (accessory)

The labels is used to distinguish the center of embroidery space for each frame type. Attach the label according to need of the frame you use.



- Sticking-on position is different depending on a frame spec. and a size.



**Chapter 1**

## **Changing the Height of Table**

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- 1. Removing Table ..... 7
- 2. Adjusting Height ..... 10

**Chapter 2**

## **Cap Frame 2 (including pocket frame)**

---

- 1. Attaching Cap Frame 2 Unit ..... 11
- 2. Changing Frame Type ..... 13
- 3. Setting Material ..... 15

**Chapter 3**

## **Tubular Goods Frame**

---

- 1. Attaching the Tubular Goods Frame Unit ..... 20
- 2. Changing Frame Type ..... 22
- 3. Setting Material ..... 24

**Chapter 4**

## **Border Frame**

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- 1. Attaching the Border Frame Unit ..... 26
- 2. Changing Frame Type ..... 31
- 3. Setting Material ..... 33

**Chapter 5**

## **Adjustment and Maintenance**

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- 1. Cap Frame 2 ..... 34
  - 1-1. Attaching the drive ring shaft ..... 34
  - 1-2. Adjusting the tension of drive wire ..... 35
  - 1-3. Adjusting the position of frame unit ..... 37
  - 1-4. Periodic inspection ..... 38

# Chapter 1

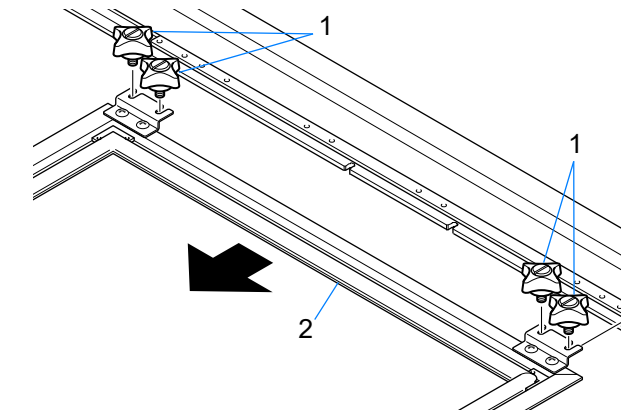
## Changing the Height of Table

### 1. Removing Table

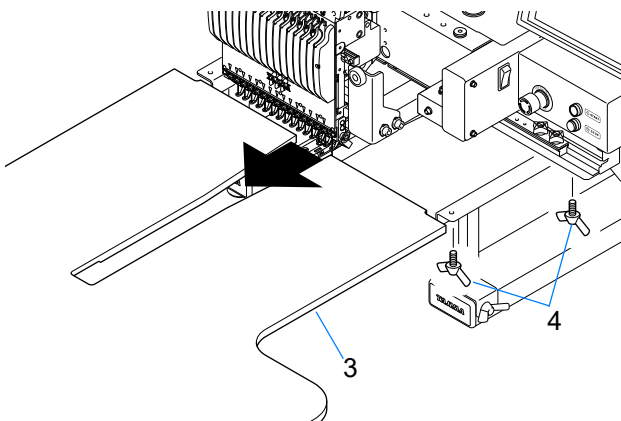
#### Warning

**!** To prevent an accident due to an unexpected startup, be sure to turn off the power before accessing the machine.

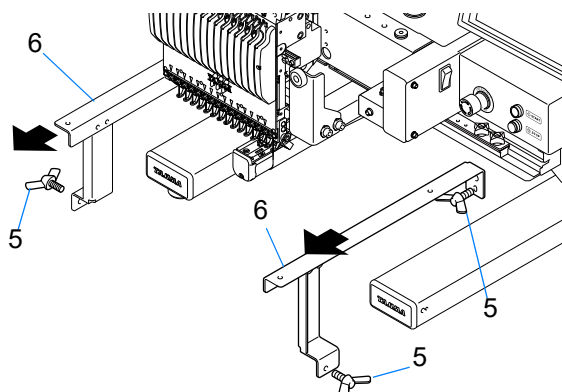
#### TMEZ-SC, TMBR2-SC, TMBP2-SC



1 Remove knob 1 and then remove border frame 2.



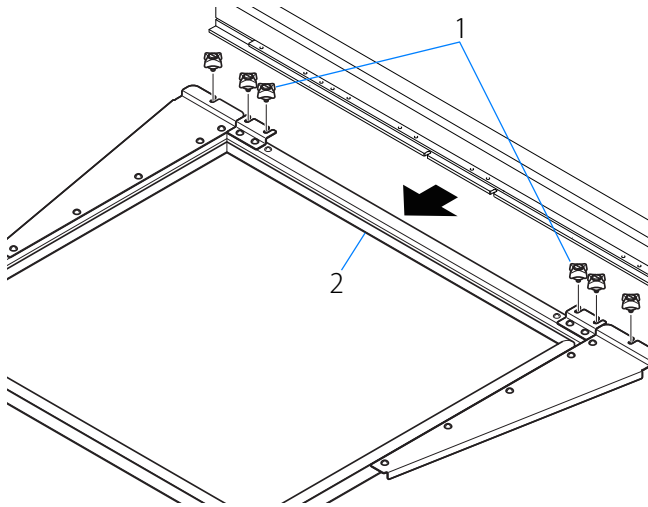
2 Remove wing bolts 4 underneath table 3 and then remove table 3.



3 Remove wing bolts 5 and then remove table supports 6.

**TMBP2-XC**

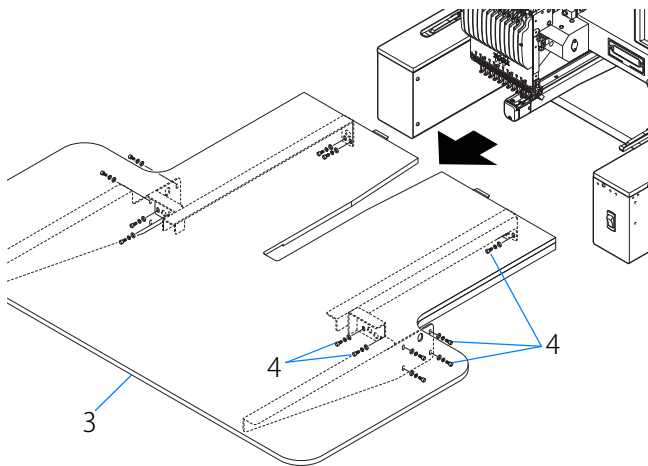
Border frame (350×500 and 550×600)



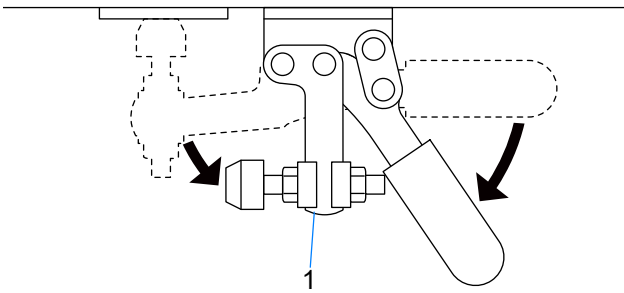
1 Remove knob 1 and then remove border frame 2.



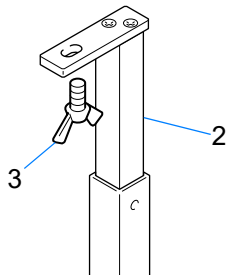
• The illustration is an example for border frame (550×600).



2 Remove screws 4 which are fixing table 3 and then pull table 3 to the front.

**TMEZ-KC, TMAR-KC TYPE-2**

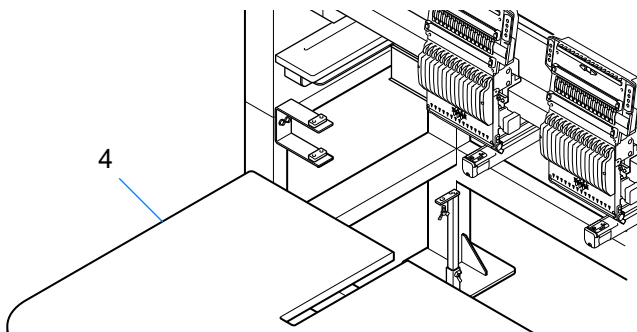
- 1 Release all toggle clamps 1 positioned at bottom of table.



- 2 Remove wing bolts 3 of the stay 2 under the table.



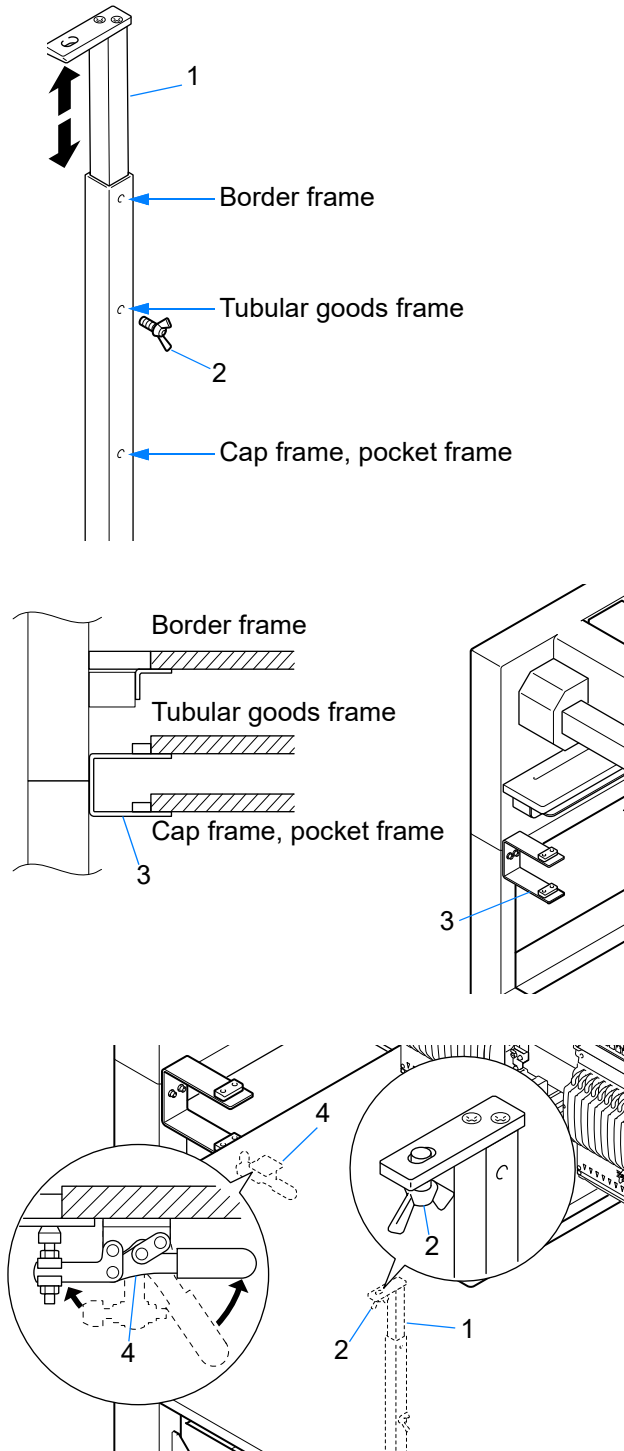
- Keep in mind that the table will move when the toggle clamp and wing bolts are removed.



- 3 Remove table 4.

## 2. Adjusting Height

### TMEZ-KC, TMAR-KC TYPE-2



1 Remove wing bolt 2 of table stay 1.

2 Adjust the length of table stay 1 to the position that suits the type of frame and fasten it with wing bolt 2.

3 Place the table on the position of table holder 3 that matches the frame type.

4 Attach wing bolt 2 of table stay 1 to the table.

5 Secure the table with toggle clamp 4.

# Chapter 2

## Cap Frame 2 (including pocket frame)

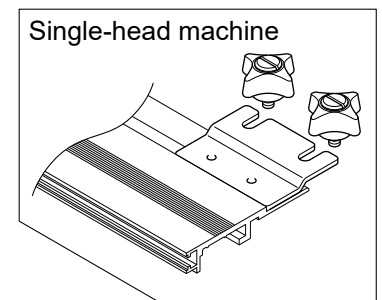
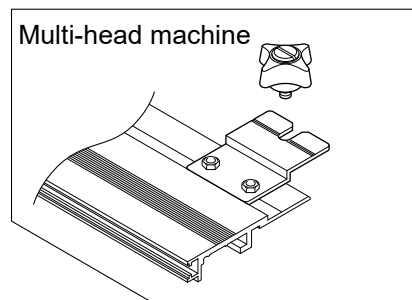
### 1. Attaching Cap Frame 2 Unit

#### Warning

! To prevent an accident due to an unexpected startup, be sure to turn off the power before accessing the machine.

#### Caution

! There are two types of cap frame units, one of them is for single-head machines, and the other one is for multi-head machines (including machines with a smaller number of heads).

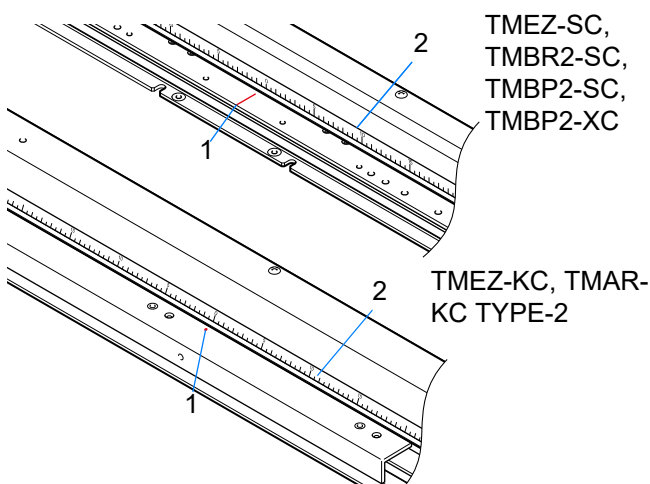


- Hereafter, "Cap frame 2" is referred to as "Cap frame" in the text of this manual.
- Attach the cap frame unit even if you use a pocket frame.

This section explains how to attach a frame unit after detaching the currently attached frame unit.

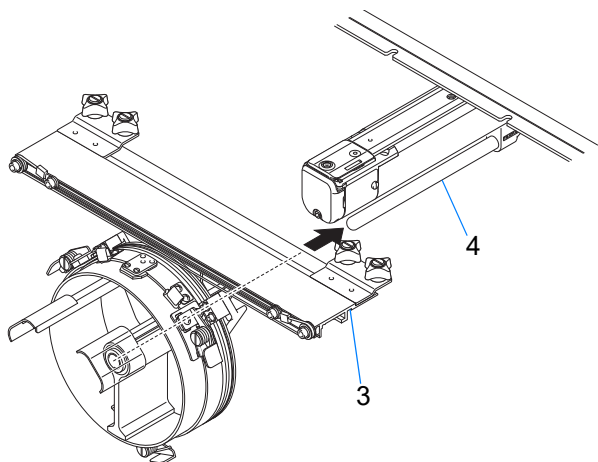


- Refer to the attaching method (described below) of each frame unit and detach them in the reverse procedure.  
Tubular goods frame: "Chapter 3 1. Attaching the Tubular Goods Frame Unit"  
Border frame: "Chapter 4 1. Attaching the Border Frame Unit"



1 Move the frame in right/left direction to align mark-off line 1 or punched mark 1 of the drive system with the value (chart below) of traverse scale 2.

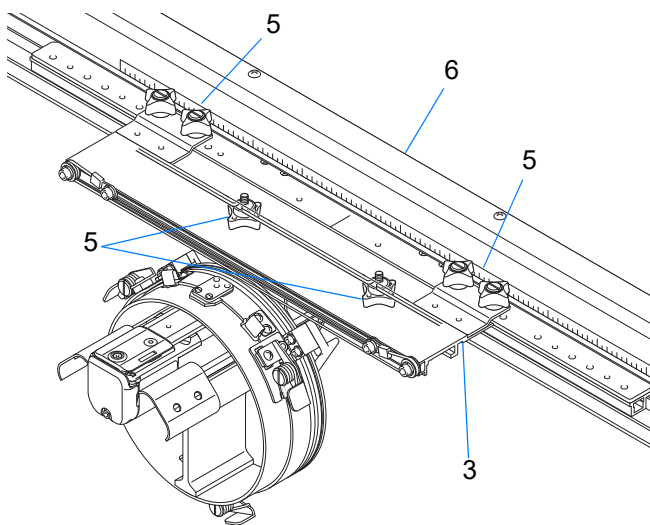
Machine type, frame spec.	Value
TMEZ-SC, TMBR2-SC, TMBP2-SC, TMBP2-XC	0
TMEZ-KC (360P), TMAR-KC TYPE-2 (360P)	0
TMEZ-KC (500P), TMAR-KC TYPE-2 (500P)	7



2 Fit the cap frame unit 3 into drive ring shaft 4.



- If the drive ring shaft is not attached, attach it by referring to "Chapter 5 1-1. Attaching the drive ring shaft".
- When attaching the cap frame unit to the machine for the first time, loosen the screws (four positions) on the drive ring base and then fit them on the drive ring shaft. For details, refer to "Chapter 5 1-3. Adjusting the position of frame unit".

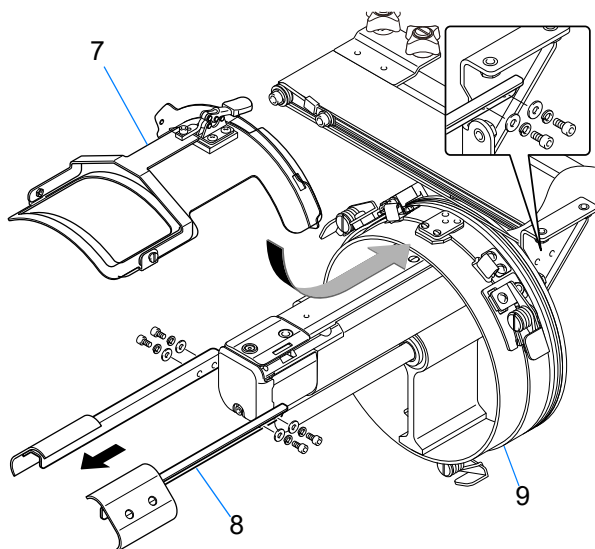


3 Connect cap frame unit 3 and drive system 6 using knobs 5 (four positions).



- Firmly press the cap frame unit all the way in to connect it.

**When attaching a pocket frame**




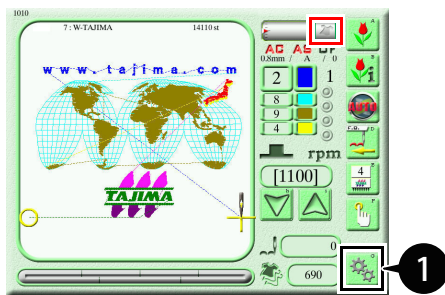
- Attach the pocket frame 7 to the drive ring 9 after detaching the needle plate bracket 8.
- Set the frame type to "Cap".


## 2. Changing Frame Type

Change the drive mode according to the frame type in the case of frame change. Setting cannot be changed during embroidery. Set to “Cap” for the pocket frame. Contents of display differ depending on model.


### ⚠ Caution

-  Do not put your hands, etc. on the table when you perform this operation. Failure to observe this may result in injury due to the frame travel.




- 1 Press  on the main screen.

The frame type being set is displayed in the red frame.

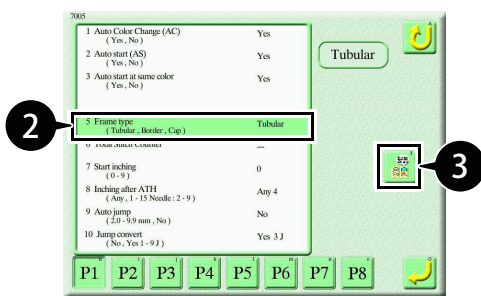
 : Border frame


 : Cap frame

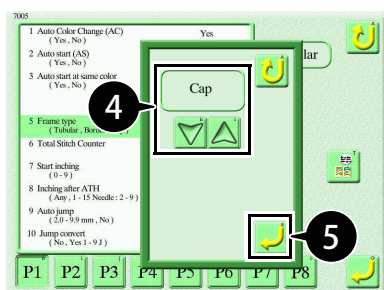
 : Tubular goods frame

- 2 Select “5. Frame type”.

- 3 Press .



- For TMEZ-KC, TMAR-KC TYPE-2, press  and select “Cap”.



- 4 Press  and select “Cap”.



- For the setting range for each machine, refer to "The setting range of cap frame" of page 14.

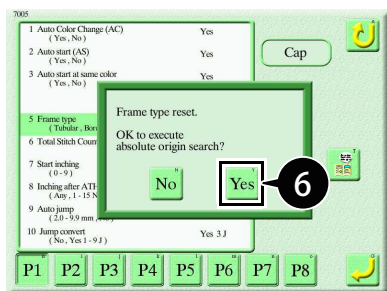
- 5 Press .

The frame type will be changed.



- The data set will be canceled when the frame type is changed.

## 2. Changing Frame Type



6 Press **Yes** .

The frame will move to the absolute origin and return to the original position.



- The embroidery space changes when the frame type is changed. Therefore, perform an absolute origin search.

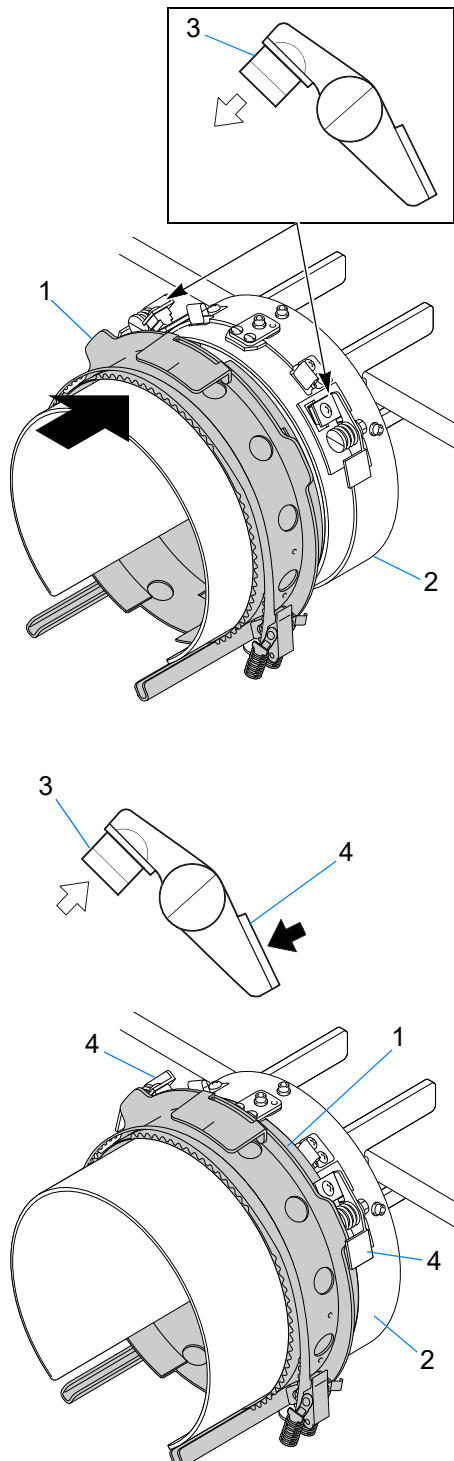
### ■ The setting range of cap frame

Machine	Setting range	FS mode
TMEZ-SC	Cap	No
TMEZ-KC		No
TMAR-KC TYPE-2		No
TMBR2-SC, TMBP2-SC		Yes
TMBP2-XC		Yes

## 3. Setting Material



- Embroidering on the following caps may result in poor finishing or a machine malfunction.
  - Hats that are not of cap type
  - Fabric caps that wrinkle and stretch easily
  - Caps that cannot be set in the cap frame (small caps or extremely shallow caps)
- Even if the design fits within the embroidery space (75\*360 mm), embroidery may not be possible depending on the shape and depth of the cap.

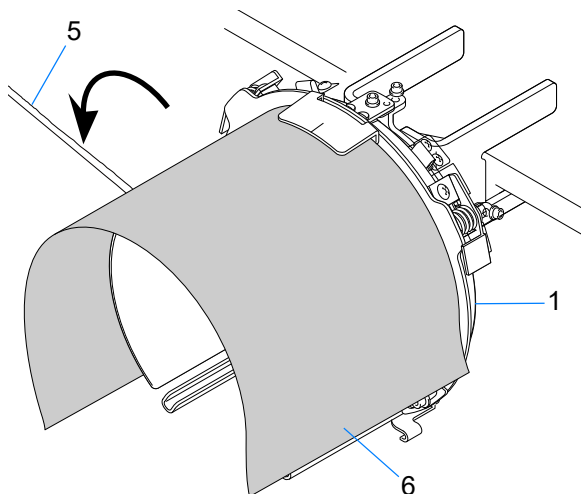


- 1 Push cap frame 1 until it is fixed by lock pins 3 (two positions) of setting frame 2.



- To detach the cap frame 1 from the setting frame 2, push the left and right attaching/detaching levers 4 and detach the lock pin 3.

### 3. Setting Material

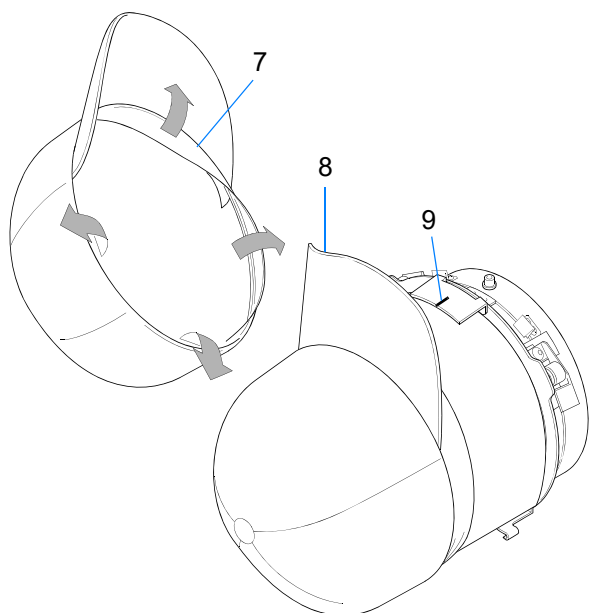


2 Release lid frame 5.

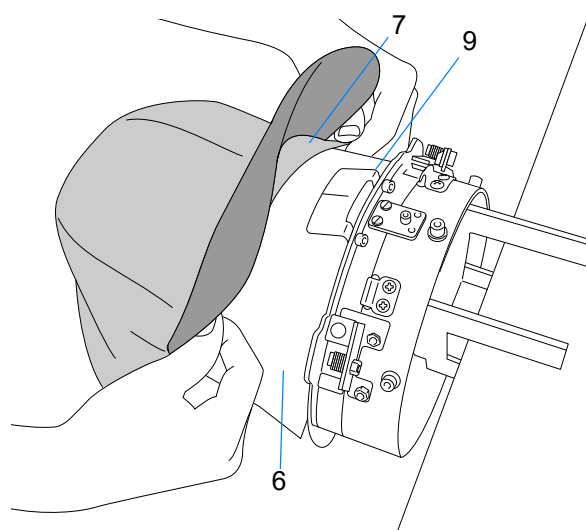
3 Set interlining cloth 6 to cap frame 1.



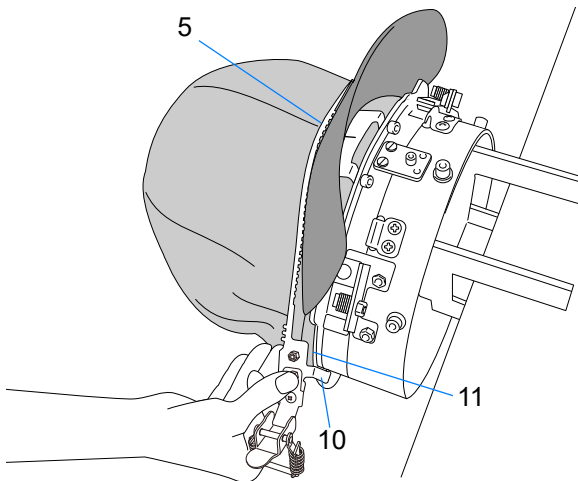
- When embroidering on a cap, set an interlining cloth such as an unwoven cloth under the cap. Failure to observe this may result in poor finishing or a machine malfunction.



4 Pull sweatband 7 outside and align the center of the cap with mark-off line 9 so that visor 8 of the cap comes to the top.



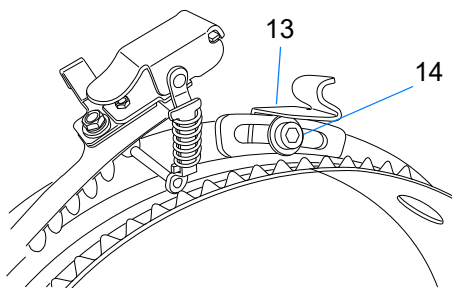
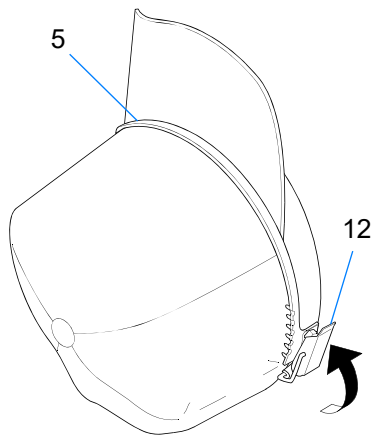
5 Perform setting so that sweatband 7 is clipped between holder 9 and interlining cloth 6.



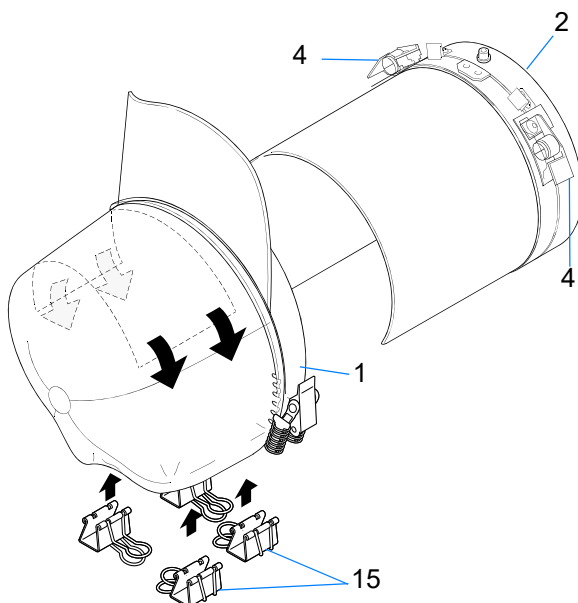
- 6 Close lid frame 5 and set hook 10 to rail 11 of the cap frame and fix the hook with lock 12.



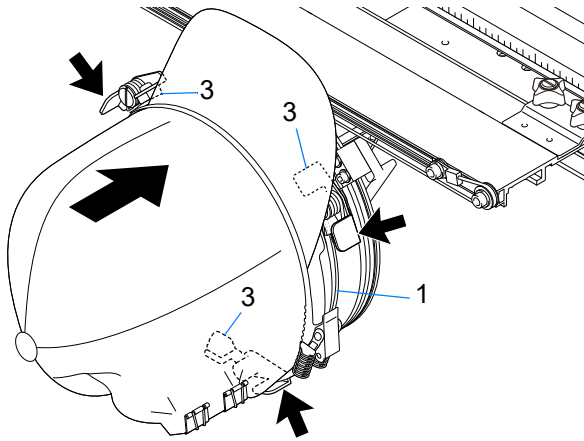
- Fix the lid frame aligned to the seam of the visor.



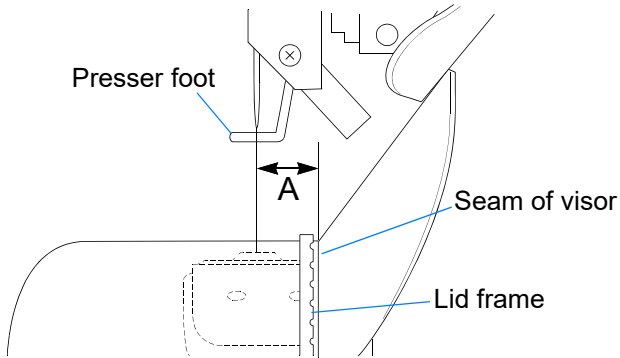
- When the fabric thickness of the cap is changed, loosen screw 14. Then, adjust the position of the lid frame holder 13 in accordance with the fabric thickness of the cap.



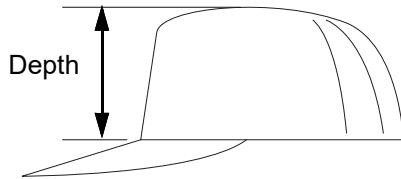
- 7 Push left and right attaching/detaching levers 4 and detach cap frame 1 from setting frame 2.
- 8 Stretch the fabric insofar as the roundness of the cap does not disappear and fix the cap by using clip 15.



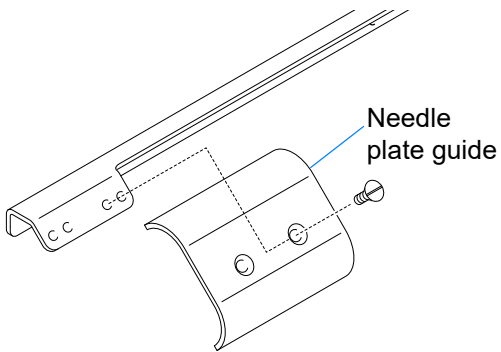
9 Push cap frame 1 until it is locked by lock pins 3 (three positions).



- To prevent the presser foot from coming in contact with the lid frame when embroidering, make a distance of at least 15 mm at section A as shown on the left-hand side.



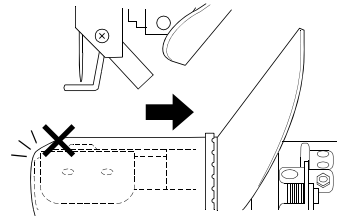
- When the cap depth is changed, change the attaching position of the needle plate guide.



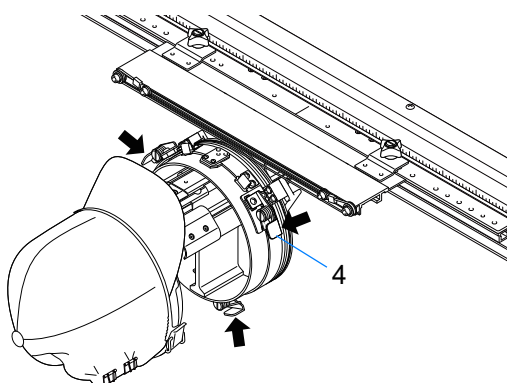
**⚠ Caution**



Before starting embroidery, confirm the embroidery space. If you embroider near the top of a cap, the needle plate or rotary hook cover will come in contact with the inner part of the cap, which will cause design displacement.

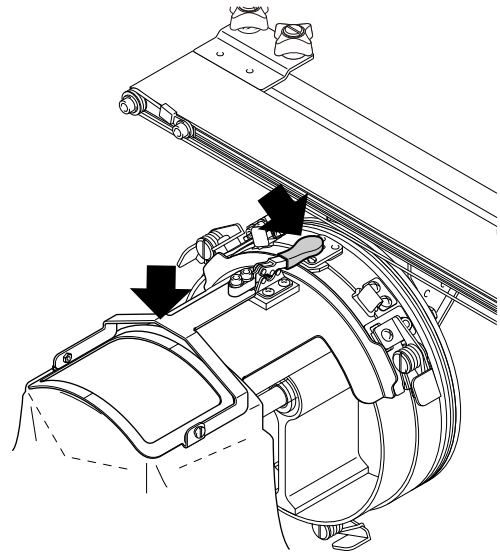
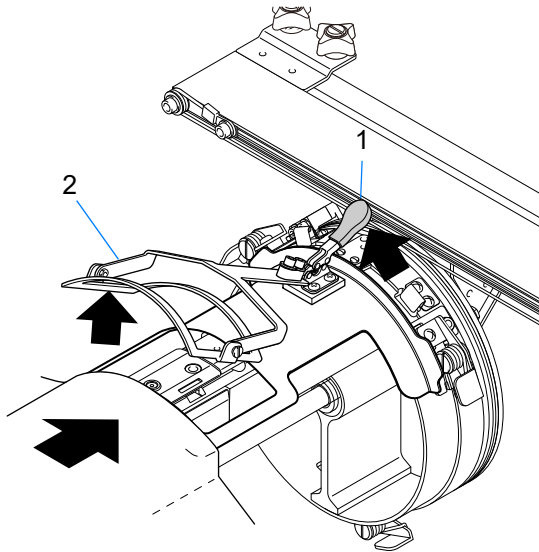


- To detach the cap frame, push the attaching/detaching levers 4 (three positions). The cap frame is pushed forward by the force of the spring.



### ■ Pocket Frame

Raise lever 1 to open presser frame 2 and set the frame and cylinder bed so that they will be inserted in the pocket. After stretching the fabric, lower lever 1.



1

2

3

4

5

# Chapter 3

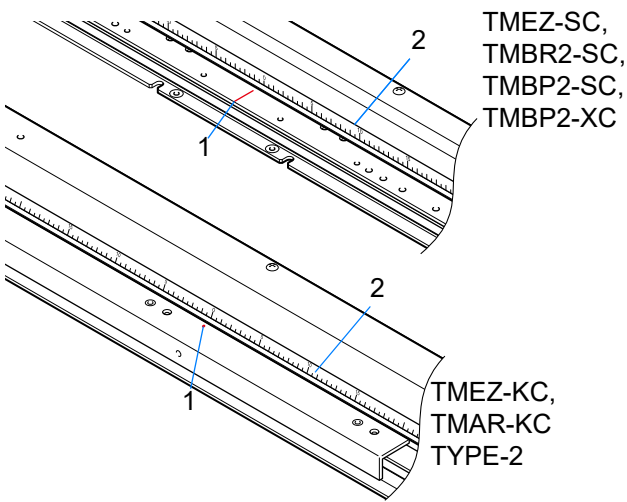
## Tubular Goods Frame

### 1. Attaching the Tubular Goods Frame Unit

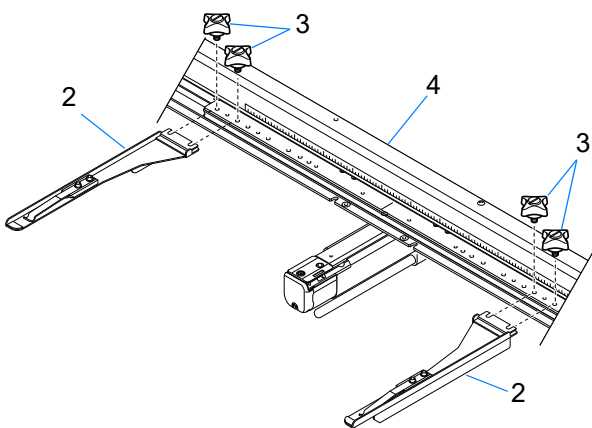
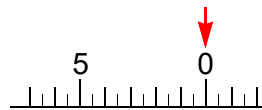
This section explains how to attach a frame unit after detaching the currently attached frame unit.



- Refer to the attaching method (described below) of each frame unit and detach them in the reverse procedure.  
Cap frame 2: "Chapter 2 1. Attaching Cap Frame 2 Unit"  
Border frame: "Chapter 4 1. Attaching the Border Frame Unit"



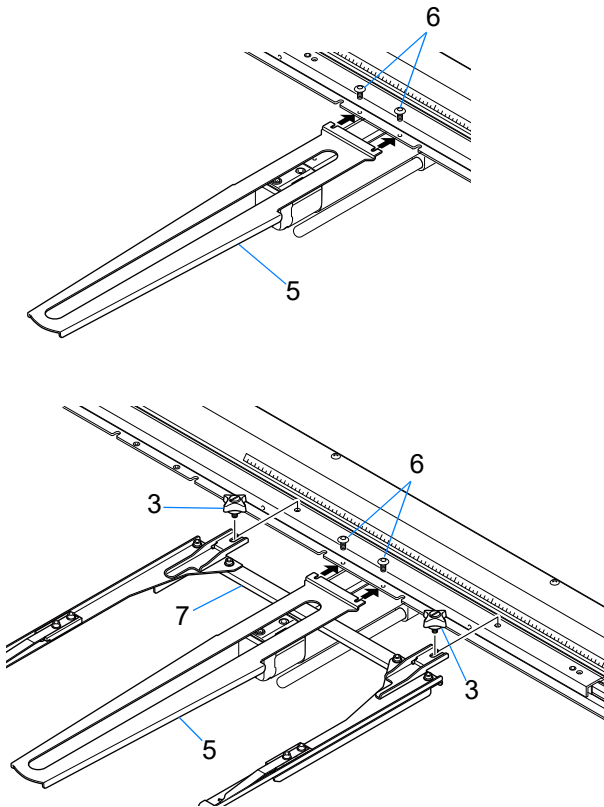
- 1 Move the frame in right/left direction to align mark-off line 1 or punched mark 1 of the drive system with the value "0" of traverse scale 2.



- 2 For TMBR2-SC, TMBP2-SC, TMBP2-XC, TMEZ-SC: Attach frame holders 2 with knobs 3.



- Mount frame holder 2 vertically to the drive system 4.



**3** For TMBP2-XC:

Attach tubular goods frame holders 5 with screws 6.



- Mount frame holder 5 vertically to the drive system.

**4** For TMEZ-KC, TMAR-KC TYPE-2:

Attach joint plate 7 with knobs 3 (two positions).

Attach tubular goods frame holder 5 with screws 6.

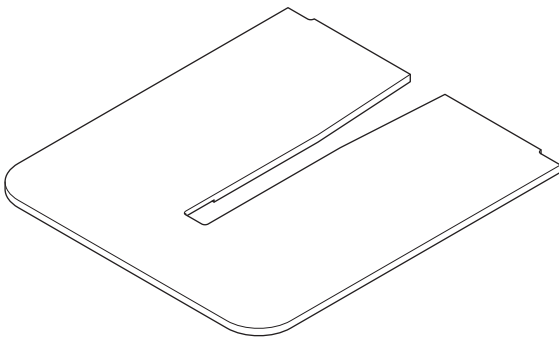


- Mount tubular goods frame holder 5 vertically to the drive system.

**[When attaching the table for the tubular goods frame]**

The tubular goods frame embroidery may be performed with the table attached depending on the weight of the embroidery goods. Attach the table using the following steps.

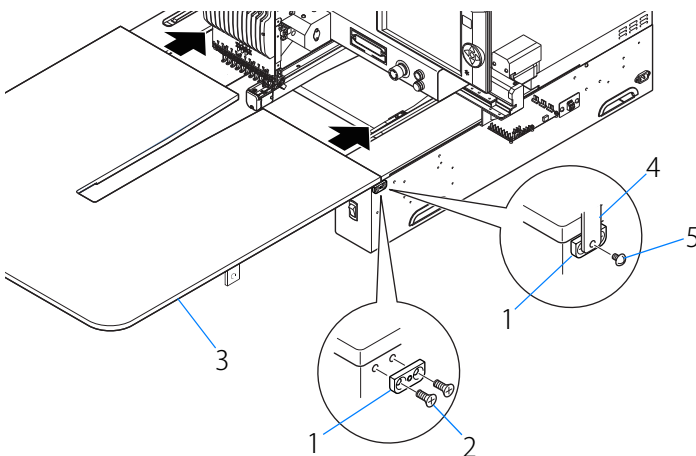
**Table for tubular goods frame**



TMEZ-SC, TMBR2-SC & TMBP2-SC

Attach the table in a reverse step in accordance with the following step.

"Chapter 1 1. Removing Table"




TMBP2-XC

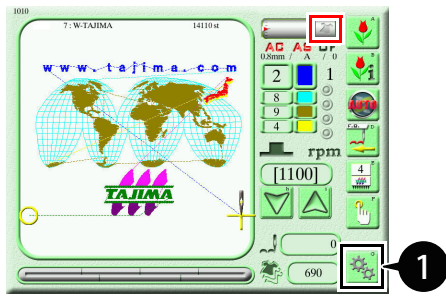
- 1** Attach bracket base 1 to the both sides of the machine with screw 2 (round countersunk head screw M4×8).
- 2** Push the table 3 to the machine and fix table bracket 4 to bracket base 1 with screw 5 (truss head screw M4×6).


# 2. Changing Frame Type

Change drive mode according to the frame type in the case of frame change. Setting cannot be changed during embroidery. Contents of display differ depending on model.


## ⚠ Caution

 Do not put your hands on the table when you operate the machine. Failure to observe this may injure your hands or fingers due to the frame travel.




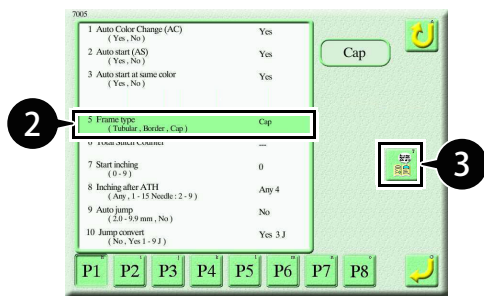
1 Press  on the main screen.

The frame type being set is displayed in the red frame.

 : Border frame

 : Cap frame


 : Tubular goods frame

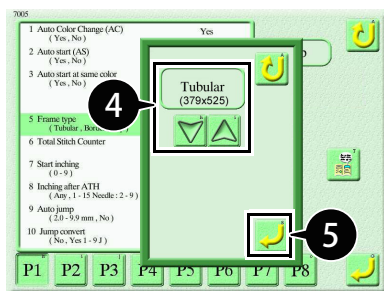


2 Select "5. Frame type".

3 Press .



- For TMEZ-KC, TMAR-KC TYPE-2, press  and select frame type and FS mode (Yes/No).



4 Press  and select "Tubular".



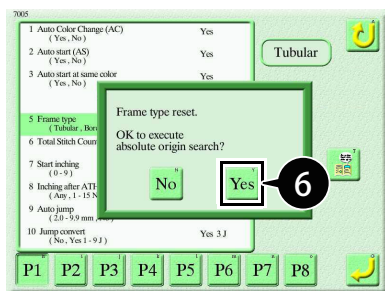
- For the setting range for each machine, refer to "The setting range of tubular goods frame" of page 23.

5 Press .

The frame type will be changed.



- The data set will be canceled when the frame type is changed.



6 Press **Yes**.

The frame will move to the absolute origin and return to the original position.

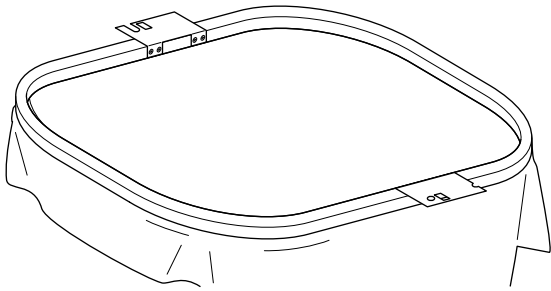


- The embroidery space changes when the frame type is changed. Therefore, perform an absolute origin search.

### ■ The setting range of tubular goods frame

Machine	Setting range	FS mode
TMEZ-SC	Tubular (379×525), Tubular (300×423)	No
TMEZ-KC	Tubular	No
TMAR-KC TYPE-2	Tubular	Yes
TMBR2-SC, TMBP2-SC	Tubular (379×525), Tubular (300×423)	Yes
TMBP2-XC	Tubular (379×525), Tubular (580×595)	Yes

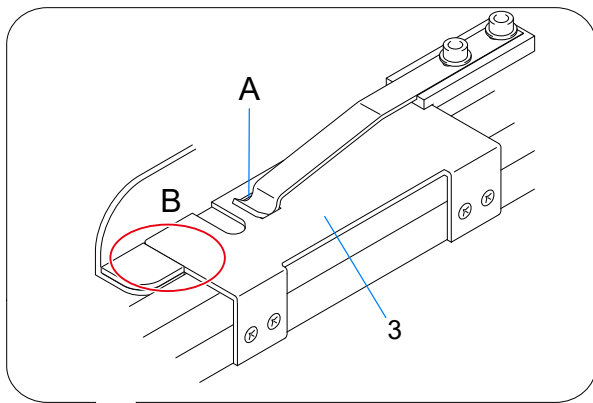
## 3. Setting Material



1 Stretch the fabric on the tubular goods frame.



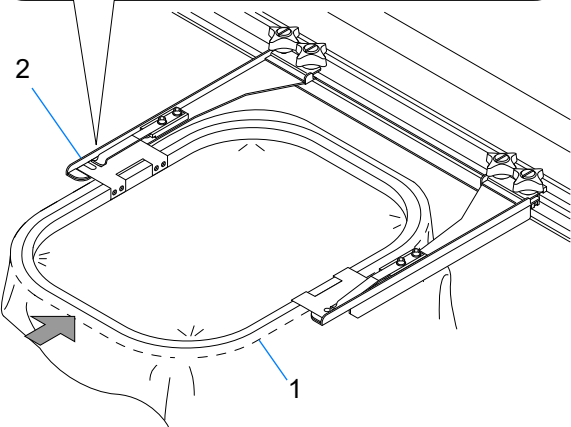
- For how to stretch the fabric, refer to the separate manual "Basics".



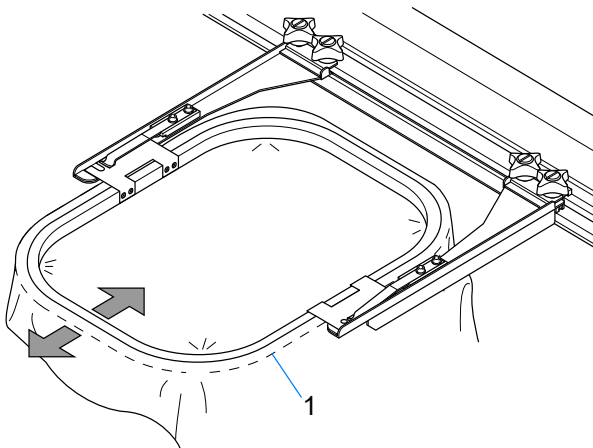
2 Set tubular goods frame 1 to frame holder 2 and push tubular goods frame 1 into the position (section A) where arm 3 is locked.



- Check if there is no step or gap at section B.
- The shape of the arm differs depending on the type of frame.

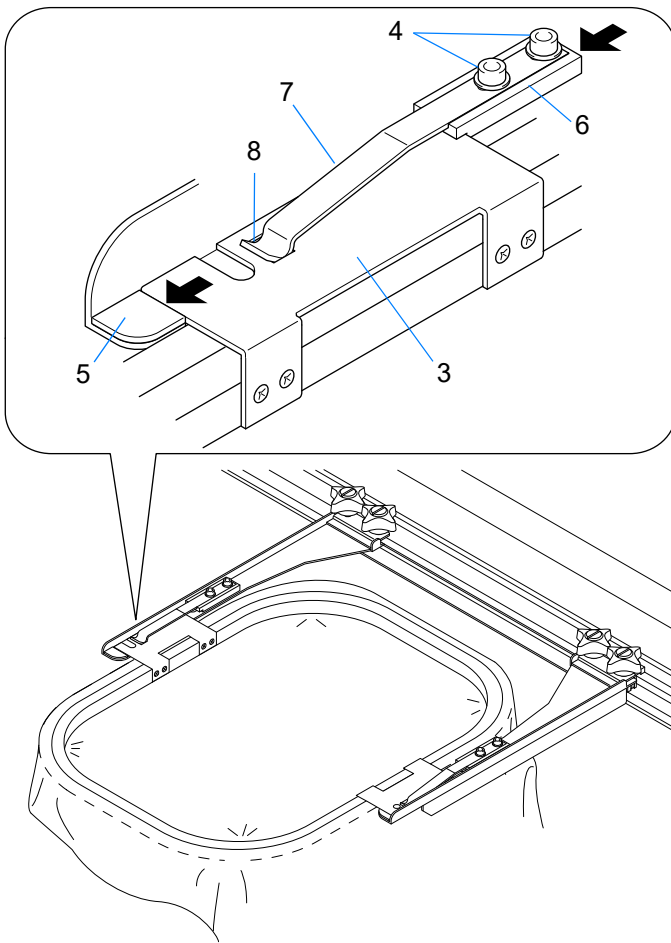


3 After setting tubular goods frame 1, move the tubular goods frame back and forth and check that there is no play.



**[If the set tubular goods frame has play]**

If there is play, loosen hexagon bolt 4, and clip arm 3 between pawl 5 and positioning plate 6. Then, tighten hexagon bolts 4 in the state that frame presser spring 7 is fitted to groove 8.



1

2

3

4

5

# Chapter 4

## Border Frame

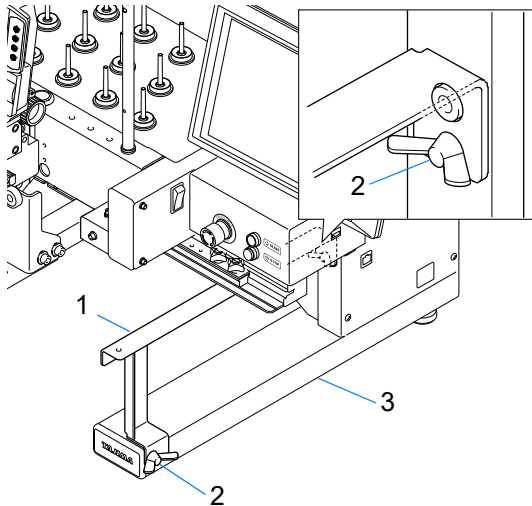
### 1. Attaching the Border Frame Unit

This section explains how to attach a frame unit after detaching the currently attached frame unit.

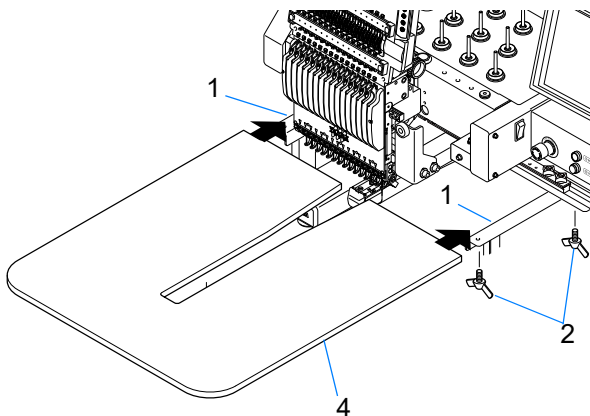
#### ■ TMEZ-SC, TMBR2-SC, TMBP2-SC



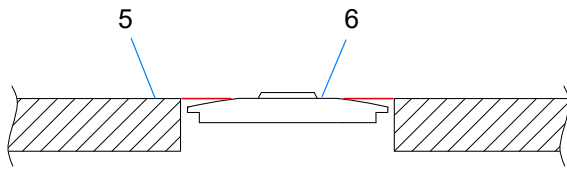
- Refer to the attaching method (described below) of each frame unit and detach them in the reverse procedure.  
Cap frame 2: "Chapter 2 1. Attaching Cap Frame 2 Unit"  
Tubular goods frame: "Chapter 3 1. Attaching the Tubular Goods Frame Unit"



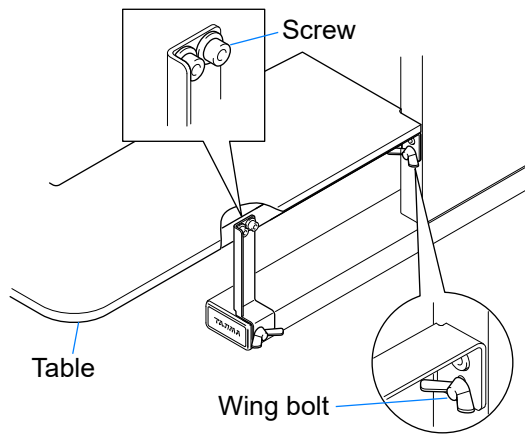
- 1 Attach table support sets 1 (left and right) to stand 3 by using wing bolts 2 (four positions left and right).



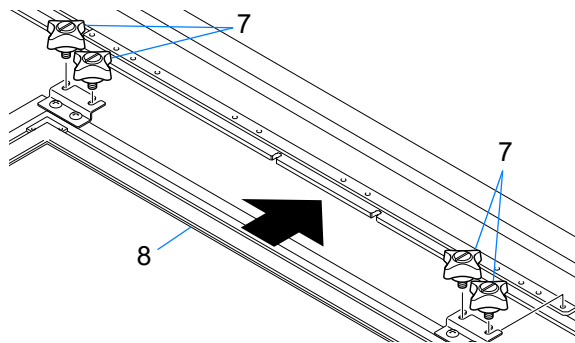
- 2 Mount table 4 on table support sets 1 (left and right) and fix the table by using wing bolts 2 (four positions left and right).



3 Check that table top 5 almost accords in height with needle plate top 6.



- If there is a difference of 0.5 mm or more, loosen the screws (4 on each side) and wing bolts (2 on each side) to adjust the height of the table.
- After adjustment, re-tighten the loosened screws and wing bolts.



4 Attach border frame 8 using knobs 7 (four positions).

1

2

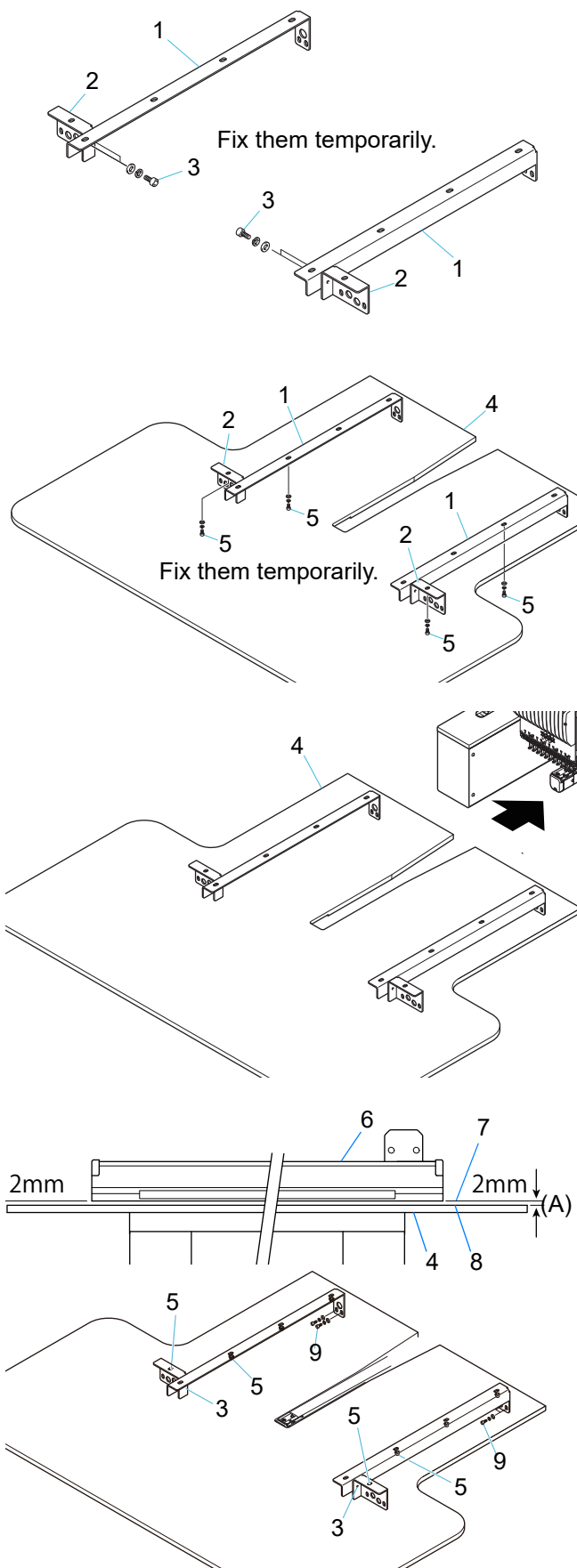
3

4

5

**TMBP2-XC**

Border frame (350×500, 550×600)



1 Temporarily attach table support 2 to table support 1 using screws 3.

- [Screw 3]
- Hexagon socket head cap screw M5\*12
- Spring washer M5
- Plain washer M5\*12\*t0.8

2 Temporarily attach table support 1 and table support 2 under table 4 using screws 5 (10 pcs.).

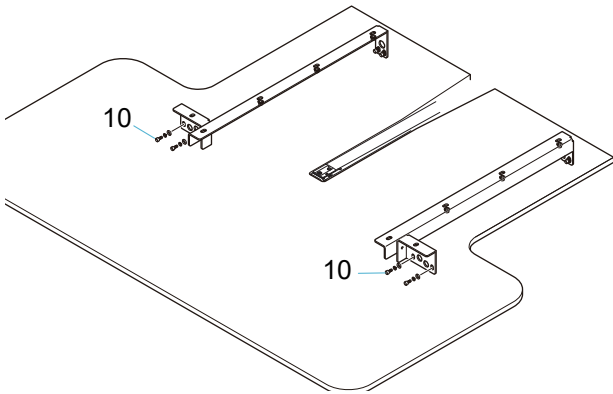
- [Screw 5]
- Hexagon socket head cap screw M5\*15
- Spring washer M5
- Plain washer M5\*16\*t2.0

3 Push table 4 into the machine.

4 Move drive system 6 to the rearmost and frontmost by hand and adjust the height of table 4 in the procedure below so that the gap (A) should be 2mm between drive system bottom 7 and table top 8 on both the left and right sides.

- [HOW TO ADJUST]
- Move drive system 6 to the rearmost.
- Tighten screws 9 (4 pcs.) so that the gap (A) should be 2 mm, then tighten screws 3 (4 pcs.) and screws 5 (10 pcs.).

- [Screw 9]
- Hexagon socket head cap screw M5\*12
- Spring washer M5
- Plain washer M5\*16\*t2.0



Move drive system 6 to the frontmost.

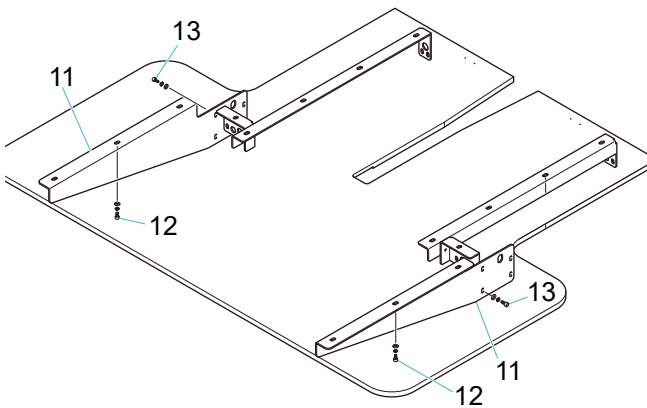
Tighten screws 10 (4 pcs.) so that the gap (A) should be 2 mm.

[Screw 10]

Hexagon socket head cap screw M5\*12

Spring washer M5

Plain washer M5\*16\*t2.0



5 Attach table support 11 under the table using screws 12 (6 pcs.).

[Screw 12]

Hexagon socket head cap screw M5\*15

Spring washer M5

Plain washer M5\*16\*t2.0

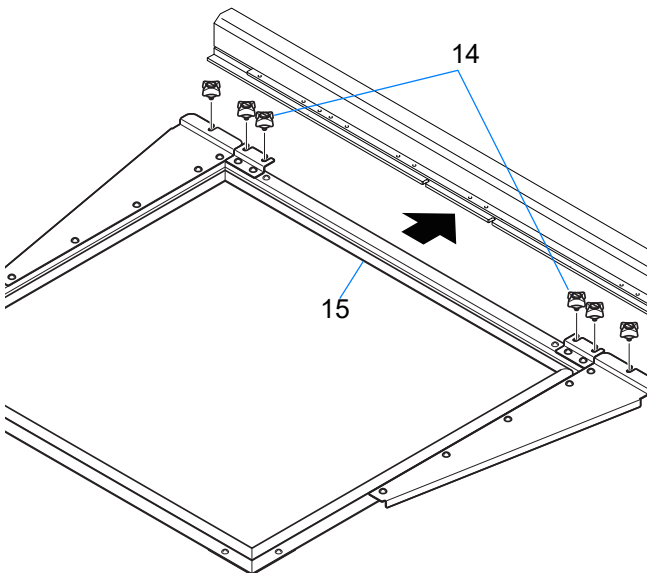
Attach table support 11 to the side of the drive system using screws 13 (8 pcs.)

[Screw 13]

Hexagon socket head cap screw M5\*12

Spring washer M5

Plain washer M5\*16\*t2.0



6 Attach border frame 15 using knobs 14.

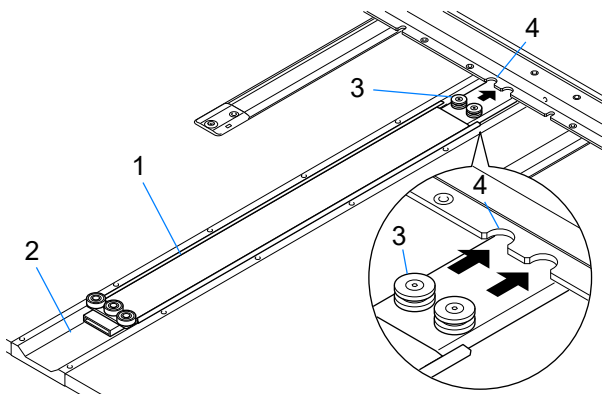


- The illustration is an example for the border frame (550×600).

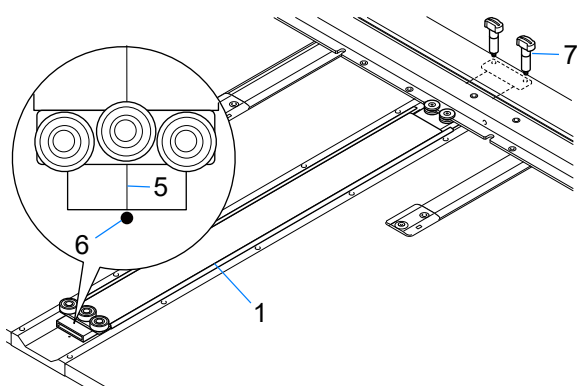
## TMEZ-KC, TMAR-KC TYPE-2



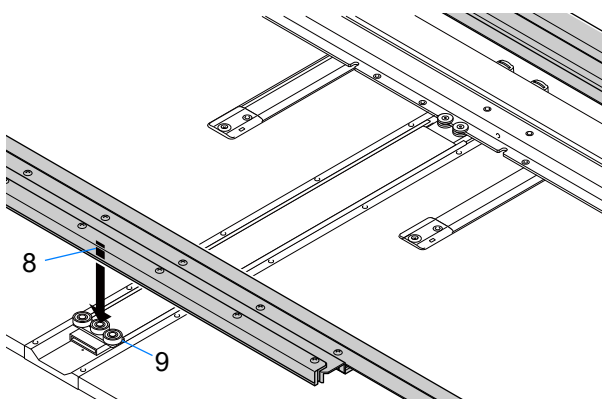
- Refer to "Chapter 1 Changing the Height of Table" and adjust the table to the height of the border frame.



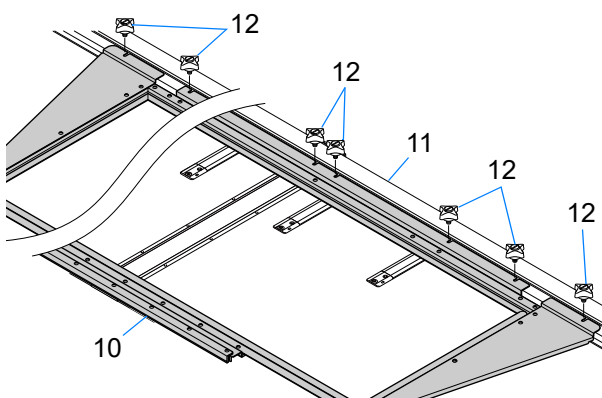
- 1 Put Y-axis connecting plate 1 on the Y-axis feed guide 2 and fit positioning collar 3 into the notch 4 in the Z-spec.



- 2 Align hairline 5 in the center of the Y-axis feed connecting plate 1 with punch mark 6 and secure them with knobbed screw 7.



- 3 Fit groove 8 of the border frame into bearing 9.




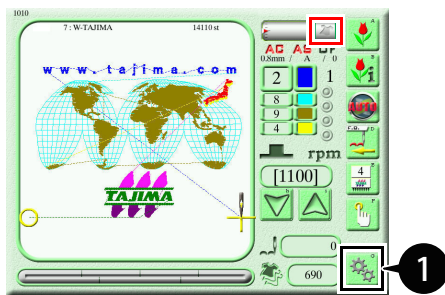
- 4 Press border frame 10 against the Z-spec. 11 and secure them with the knobbed screws 12 on the left and right.
- 5 Secure all other knobbed screws 12 as well.


## 2. Changing Frame Type

Change drive mode according to the frame type in the case of frame change. Setting cannot be changed during embroidery. Contents of display differ depending on model.

### ⚠ Caution

-  Do not put your hands on the table when you operate the machine. Failure to observe this may injure your hands or fingers due to the frame travel.



- 1 Press  on the main screen.

The frame type being set is displayed in the red frame.



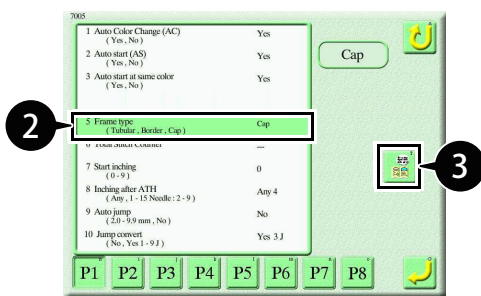
: Border frame



: Cap frame




: Tubular goods frame

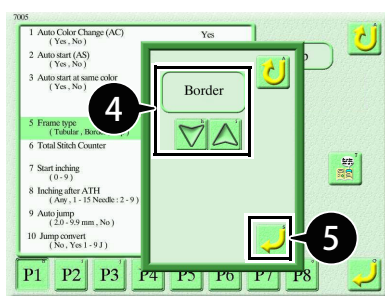



- 2 Select "5. Frame type".

- 3 Press .



- For TMEZ-KC, TMAR-KC TYPE-2, press  and select frame type and FS mode (Yes/No).



- 4 Press  and select "Border".



- For the setting range for each machine, refer to "The setting range of border frame" of page 32.

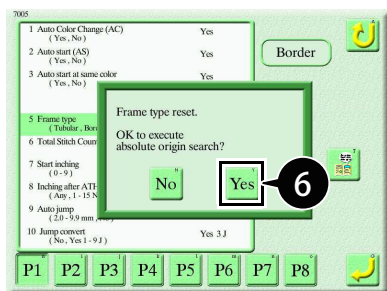
- 5 Press .

The frame type will be changed.



- The data set will be canceled when the frame type is changed.

## 2. Changing Frame Type



6 Press **Yes**.

The frame will move to the absolute origin and return to the original position.



- The embroidery space changes when the frame type is changed. Therefore, perform an absolute origin search.

### ■ The setting range of border frame

Machine	Setting range	FS mode
TMEZ-SC	Border, X-Ext	No
TMEZ-KC	Border	No
TMAR-KC TYPE-2	Border	Yes
TMBR2-SC, TMBP2-SC	Border	Yes
	X-Ext	No
TMBP2-XC	Border (550×600), Border (350×500)	Yes
	X-Ext (550×1200)	No

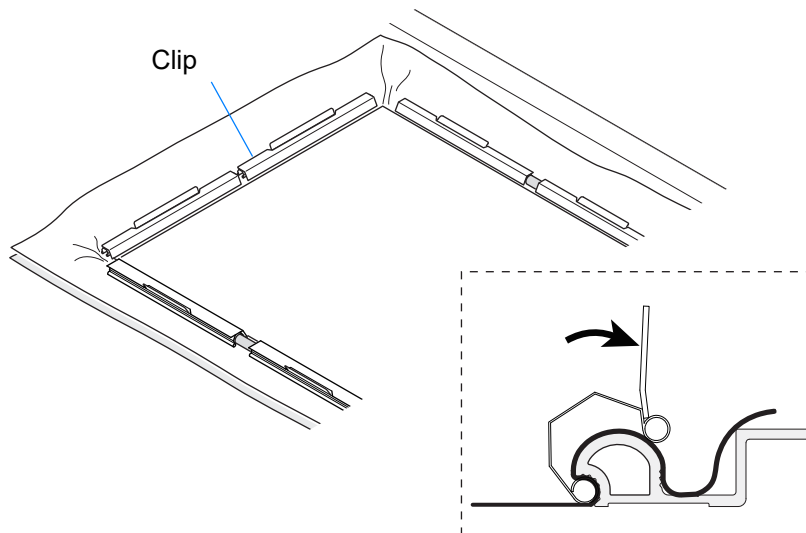
## 3. Setting Material

Set the fabric to the border frame and fit clips.

There are various clip sizes varying with the length. Arrange these clips so that the fabric is fixed equally.



- For how to stretch the fabric, refer to the separate manual "BASICS".



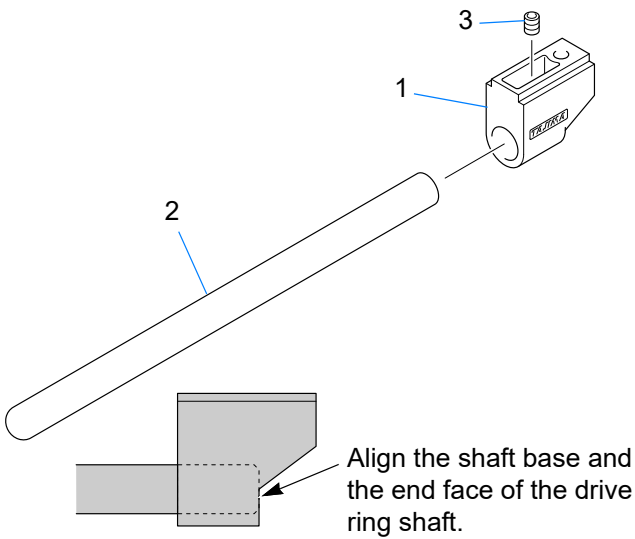
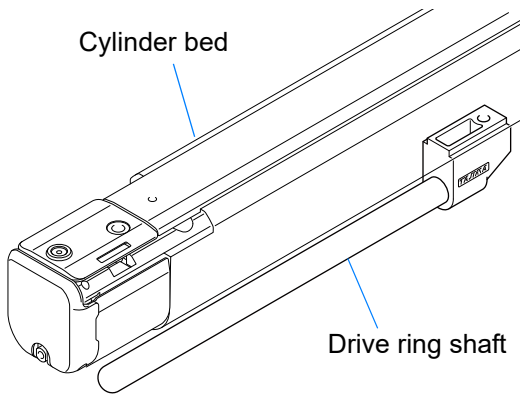
# Chapter 5

## Adjustment and Maintenance

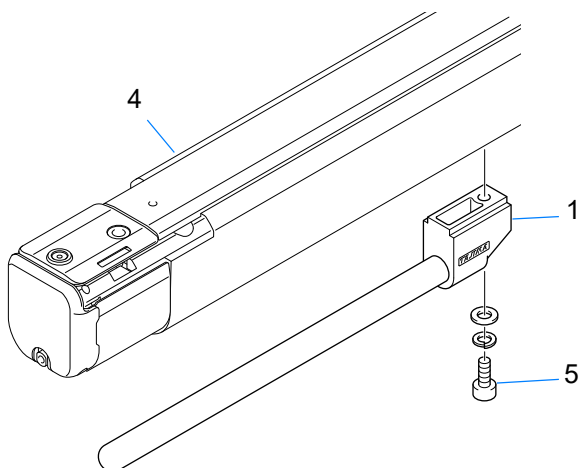
### 1. Cap Frame 2

#### 1-1. Attaching the drive ring shaft

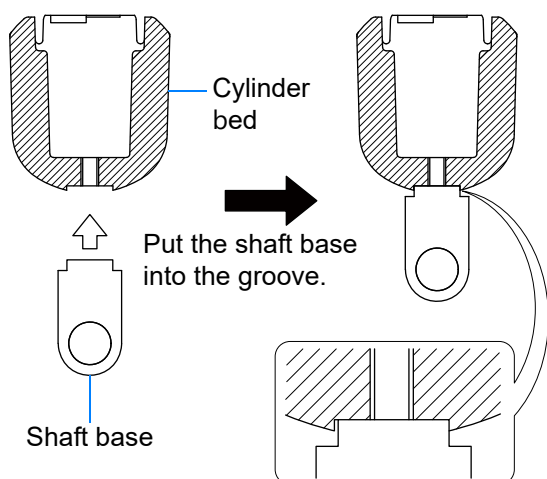
If the drive ring shaft is not attached under the cylinder bed, attach it in the following procedure.



- 1 Attach drive ring shaft 2 to the shaft base 1 and fix the drive ring shaft with screw 3 (hexagon socket head set screw M5\*6).



- 2 Attach shaft base 1 to the bottom face of cylinder bed 4 with screw 5 (hexagon socket head cap screw M5\*25).



- Fix the shaft base so that it touches to the right side of the groove of the cylinder bed.

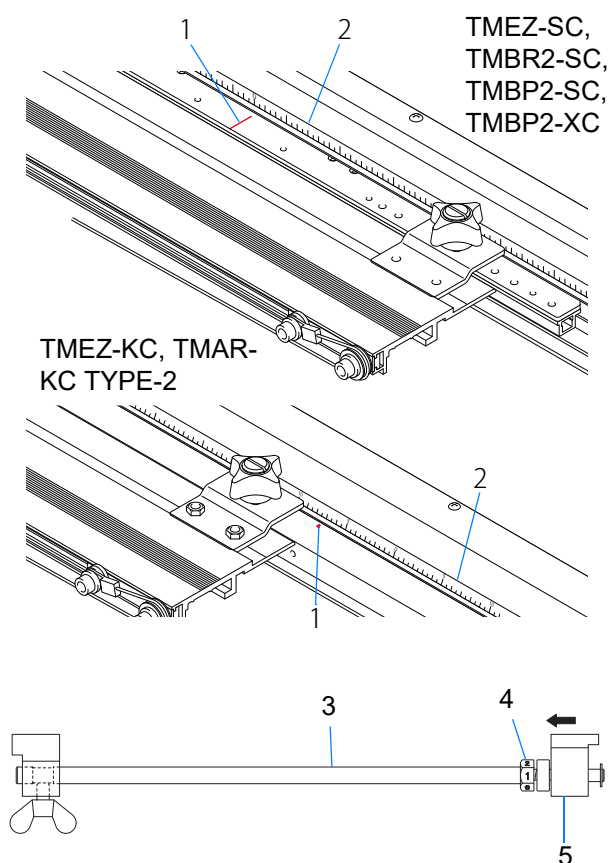
## 1-2. Adjusting the tension of drive wire

Perform this work when the frame unit is assembled or the tension of the drive wire becomes loose or the center of the frame unit is misaligned during the storage of this unit.

### Warning



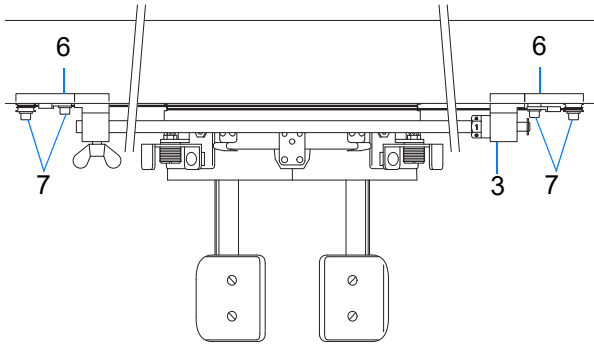
To prevent an accident due to an unexpected startup, be sure to turn off the power before accessing the machine.



- 1 Turn OFF the power.
- 2 Move the frame in right/left direction to align mark-off line 1 or punched mark 1 of the drive system with the value of traverse scale 2.

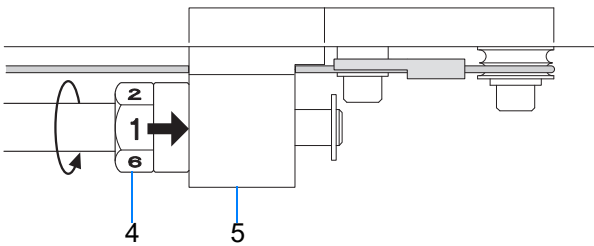
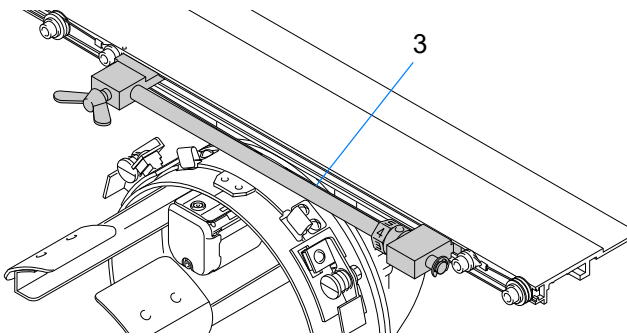
Machine type, frame spec.	Value
TMEZ-SC, TMBR2-SC, TMBP2-SC, TMBP2-XC	0
TMEZ-KC (360P), TMAR-KC TYPE-2 (360P)	0
TMEZ-KC (500P), TMAR-KC TYPE-2 (500P)	7

- 3 Turn nut 4 of the tension gauge 3, and move block 5 to the innermost.



- 4 After setting tension gauge 3 between each plate nuts 6 (left and right) and loosen screws 7 (four positions).

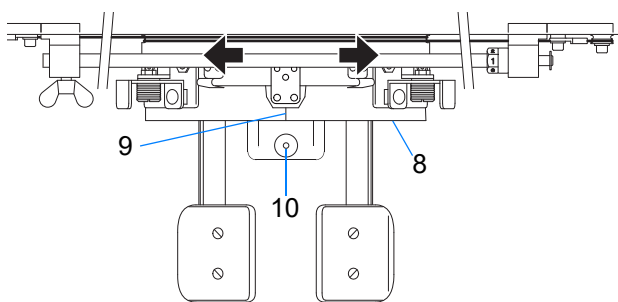
An example of attaching the tension gauge



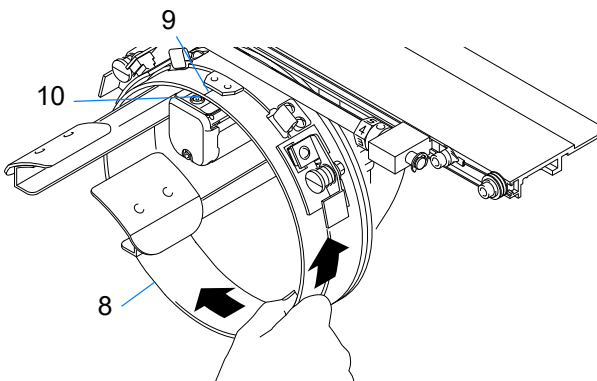
- 5 Rotate nut 4 by hand to the direction where block 5 moves to the right. Rotate the nut further by a  $\frac{4}{6}$  turn using a wrench from the position when it stops.

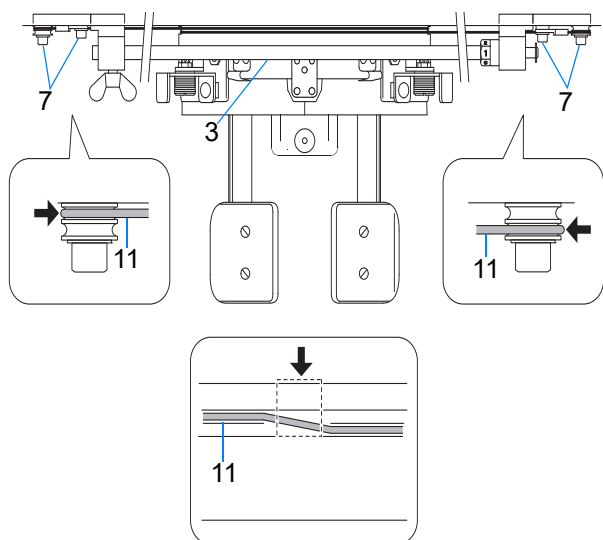


- To rotate the nut, take the engraved numbers as a rough standard.

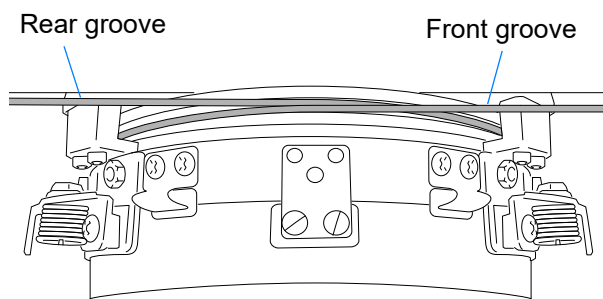


- 6 Being careful not to move the drive system to the right or left, turn drive ring 8 by hand to align center mark 9 with needle hole center 10.





Bottom face of drive ring



- 7 Check that the wire 11 does not come off from the groove and then tighten screws 7 (four positions).
- 8 Remove tension gauge 3.



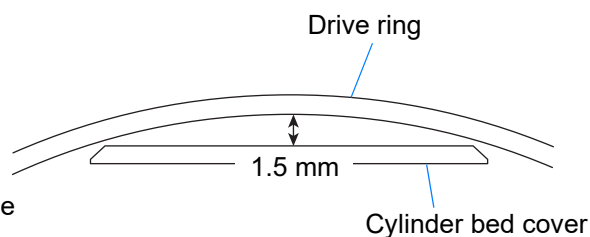
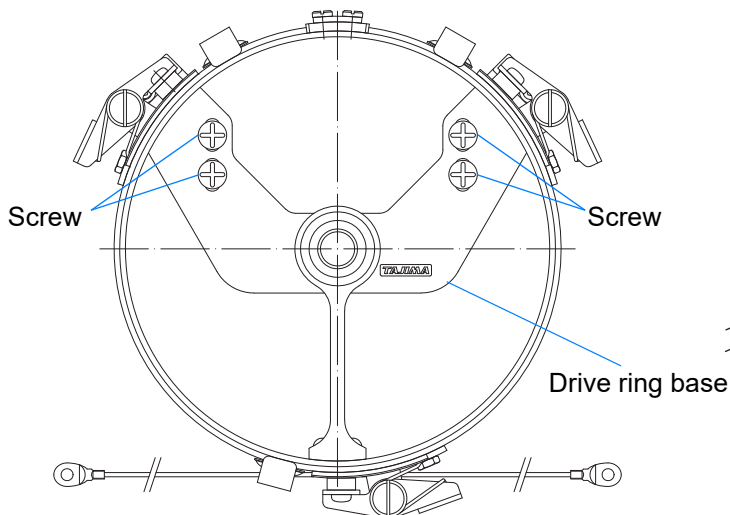
- Hang the wire correctly in the groove.

### 1-3. Adjusting the position of frame unit

If the cap frame unit does not move smoothly even if you try to move back and forth, loosen the screws (four positions), and tighten the screw at the position where the drive ring base becomes level and the cap frame unit moves smoothly.

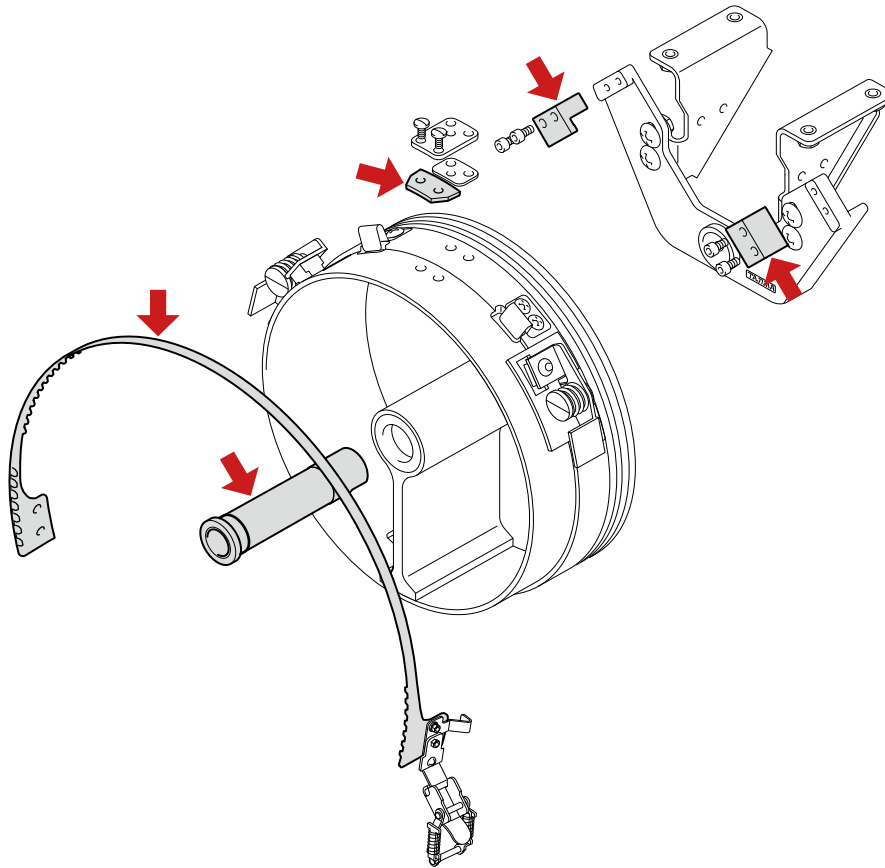


- At this time, the gap between the drive ring and the cylinder bed cover is 1.5 mm.



## 1-4. Periodic inspection

Perform periodic inspection of the frame unit once every three months and replace the parts which are worn out. Wear of the parts indicated by the red arrows affect embroidery, so early replacement is recommended. Refer to the PARTS LIST “Cap frame 2, pocket frame” for part name and part No.



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