



USER'S MANUAL

# For Safe Use

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

# For embroidery machines



# 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 document)

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 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.

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## **For Safe Use**

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# Chapter 1

## For Safe Use

Observe the following precautions to prevent fire or electric shock, personal damage and injury, fire and other damage to property arising from misuse of the product.

### 1. Precautions in Handling

#### **WARNING**

-  **DO NOT USE THE MACHINE FOR OTHER THAN ITS INTENDED PURPOSE**  
The TAJIMA embroidery machine is an industrial machine. Do not use the machine for other than embroidery on semi- or finished textile products and similar materials.
-  **DO NOT DISASSEMBLE, REPAIR, OR MODIFY THE MACHINE**  
Failure to observe this may result in fire or electric shock, injury, or fault. If repair is necessary, consult the distributor.
-  **DO NOT USE THE BAR SWITCH AS A GRIP**  
For machine models with a bar switch, using the bar switch as a grip to support yourself is strictly prohibited. Failure to observe this may cause the machine to start unexpectedly, possibly resulting in an injury.
-  **KEEP AWAY FROM DEVICES THAT GENERATE ELECTROMAGNETIC WAVES**  
Do not use a device such as a cellular phone that generates microwaves near the control circuits of the power supply box, the operation panel, etc.  
Microwaves may cause malfunctioning of the machine.
-  **DO NOT REMOVE COVERS**  
Do not remove the covers for shafts, pulleys, etc. Also, do not run the machine with a cover removed. Failure to observe this may result in being caught in moving parts.
-  **DO NOT BRING YOUR HANDS OR FACE CLOSE TO MOVING PARTS WHILE THE MACHINE IS RUNNING**  
Do not bring your hands or face close to the needles, rotary hooks, take-up levers, or frame drive systems while the machine is running. Failure to observe this may result in an injury such as caused by piercing by a needle, etc., spattering of broken needle pieces, or contact with the rotary hook or frame.
-  **KEEP CHILDREN AWAY FROM THE MACHINE**  
Keep children away from the machine to prevent an accident.
-  **DO NOT ALLOW IMPLANTED ELECTRONIC MEDICAL DEVICES TOO CLOSE TO THE EMBROIDERY MACHINE**  
A strong magnet is used inside the machine (the tension base), which may cause magnet-sensitive devices, such as cardiac pacemakers, to malfunction. If you feel something wrong with your body, leave the machine immediately.
-  **FAMILIARIZE YOURSELF WITH HOW TO OPERATE THE MACHINE BEFORE ACTUAL USE**  
Please read the manual thoroughly and understand the instructions. Then, operate the machine. Be sufficiently trained on how to operate the machine before actual use. If you are disabled or not familiar with how to operate the machine, use the machine under supervision and instructions of an authorized administrator or supervisor.









## **WARNING**

- ! WEAR PROPER CLOTHES AND TIDY UP YOURSELF SO THAT YOU CAN SMOOTHLY PERFORM THE OPERATION**  
Do not wear clothes or accessories that may be caught in moving parts when operating the machine.
- ! A SINGLE OPERATOR SHOULD OPERATE THE MACHINE**  
To prevent an accident due to an unexpected startup, a single operator should operate the machine in principle.  
If plural operators are working together, make sure that no one is working near the moving parts of the machine before starting the machine.
- ! USE THE MACHINE IN THE ENVIRONMENT WHERE ONLY AUTHORIZED PERSONS ARE PERMITTED TO ENTER**  
Ensure that unauthorized persons will not operate the machine.
- ! STOP THE MACHINE BEFORE CHECKING THE FINISHING OF EMBROIDERY**  
Do not bring your hands or face close to moving parts. Failure to observe this may result in injury due to contact with needles or frames.
- ! TURN OFF THE POWER BEFORE PERFORMING ANY OF THE FOLLOWING TASKS**  
To prevent an accident due to an unexpected startup, be sure to turn OFF the power before:

  - Replacing the needle
  - Performing time-consuming threading or under thread replacement
  - Stretching the fabric on the border frame
  - Stepping on the table
  - Accessing the rear of the machine
- ! UNPLUG THE POWER PLUG FROM THE OUTLET IN THE FOLLOWING CASES**  
Turn OFF the machine and unplug the power plug from the outlet in the following cases. Failure to observe this may result in fire or electric shock, fault, or accident.

  - After use of the machine
  - If the machine is not used for a long period
  - Before performing machine adjustment, lubrication, or maintenance
  - Before leaving the machine
  - When thunder is heard
- ⊘ DO NOT RUN THE MACHINE WITH THE SUB TABLE LOWERED**  
For machine models with a sub table, lift up and fix the sub table securely after threading and/or adjusting the machine.  
Failure to observe this may result in an accident due to being caught in the frame, for example.
- ! IMMEDIATELY STOP THE MACHINE IF THERE IS SMOKE, ABNORMAL ODOR, OR ABNORMAL SOUND**  
If the machine behaves abnormally, immediately turn OFF the power to stop using it.  
In addition, unplug the power plug from the outlet and consult your local distributor.
- ! ADJUSTMENT AND MAINTENANCE SHOULD BE PERFORMED BY PERSONNEL WHO HAS BEEN TRAINED PROPERLY**  
Be sufficiently trained and instructed on how to perform maintenance work such as lubrication and adjustment before actually doing so. Greasing, inspection of drive systems, and repair of the machine must be performed by your local distributor or the service personnel assigned and trained by Tajima.  
Failure to observe this may result in injury, electric shock, or other serious accident.
- ! SHOULD THE MACHINE CATCH FIRE, DISTINGUISH THE FIRE USING A FIRE EXTINGUISHER FOR ELECTRICAL FIRE**

## CAUTION

-  **PRE-CONDITIONING INTERIM OPERATION SHOULD BE PERFORMED FOR ABOUT ONE WEEK AFTER THE INSTALLATION OF THE MACHINE**  
For using the machine for a long time and preventing unexpected trouble, operate the machine with about 70% of the maximum speed as pre-conditioning interim operation.
-  **DO NOT USE BENT NEEDLES OR NEEDLES THAT ARE NOT SUITABLE FOR THE MATERIAL**
-  **DO NOT PUT THINGS ON THE MACHINE TABLE**
-  **WHEN YOU STEP ON THE TABLE TO PERFORM THE WORK, OBSERVE THE FOLLOWING PRECAUTIONS**
  - Support the table with the supplied support  
Do not step on the table unless it is supported with the support. The table may be deformed.
  - Do not stomp on the frame drive system, frame, etc.  
Failure to observe this may result in damage.
-  **DO NOT PULL OR PUSH THE FABRIC DURING EMBROIDERY**
-  **PERFORM MAINTENANCE WORK PERIODICALLY**  
Lack of maintenance may result in early deterioration or failure of parts.  
Damage arising from lack of maintenance may be excluded from the scope of guarantee.
-  **DO NOT SEW HARD AND/OR THICK MATERIAL THAT NEEDLE CANNOT GO THROUGH**
-  **WHEN YOU DISPOSE OF THIS MACHINE, BE SURE TO COMPLY WITH THE REGULATION OF YOUR COUNTRY**

## 2. Power Supply Precautions

### WARNING



#### **DO NOT OPEN ELECTRICITY BOXES**

The electricity boxes must not be accessed by other than the service personnel assigned and trained by Tajima. Contact with high-voltage parts inside the boxes may result in electric shock.



#### **PROPERLY HANDLE THE POWER AND OTHER CABLES**

Observe the following precautions. Improper handling may cause the cable to break, possibly resulting in fire or electric shock due to current leakage.

- Do not scratch, heat, or modify the cables
- Do not forcibly pull, bind, twist, or fold the cables



#### **IMMEDIATELY STOP THE MACHINE IF THE POWER CABLE OR PLUG IS DAMAGED**

Breakage of the power cable or plug may result in fire or electric shock due to current leakage. Do not use the machine if the power cable or plug is broken.

In addition, unplug the power plug from the outlet and consult your local distributor.



#### **DO NOT PLUG OR UNPLUG THE POWER PLUG WITH WET HANDS**

Failure to observe this may result in electric shock.



#### **SECURELY INSERT THE POWER PLUG UNTIL COMPLETE CONTACT**

If the power plug electrodes come in contact with a metal object, fire or electric shock may result.



#### **UNPLUG THE POWER PLUG WHILE HOLDING IT**

Do not pull the power cable because doing so may cause the power cable to break with its core wires exposed or disconnected, possibly resulting in fire or electric shock due to current leakage.



#### **KEEP ELECTRIC AND ELECTRONIC UNITS AWAY FROM WATER, CHEMICALS OR OIL USED FOR LUBRICATION**

Failure to observe this may result in short-circuiting, possibly resulting in fire or electric shock. Do not use the machine if water, chemical or oil used for lubrication enters it.

In addition, unplug the power plug from the outlet and consult your local distributor.

### CAUTION

In addition to the leakage current, a leakage current consisting of harmonics and surges flows in the power supply line of the machine. Therefore, the improper selection and installation of an earth leakage circuit breaker and/or earth leakage relay for the factory may cause the machine to malfunction. Follow the instructions below for connecting the power cord.



#### **USE AN EARTH LEAKAGE CIRCUIT BREAKER AND EARTH LEAKAGE RELAY WITH HARMONIC AND SURGE PROTECTION FOR THE POWER SUPPLY LINE**

If you cannot obtain an earth leakage circuit breaker or earth leakage relay with harmonic and surge protection and you have to use those with no harmonic and surge protection, make sure that they have high leakage capacitance so as to accommodate the leakage current resulting from harmonics and surges. Also, always control the amount of leaked current sufficiently.



#### **CONNECT THE POWER CORD OF A SINGLE EMBROIDERY MACHINE TO ONE NO-FUSE BREAKER**

Not doing so may cause problems, such as an output reduction of the main shaft motor, a fixed position error that will accompany a color change error, or a design displacement. Contact your distributor for the required leakage capacitance of the earth leakage circuit breaker and earth leakage relay for each machine. For specific products with harmonic and surge protection, contact the distributor or a professional electrical engineer.

## 3. Important Warning Items for Safe Operation (for the US and Canada Market)


### IMPORTANT SAFETY INSTRUCTIONS

Read all instructions before using this appliance

When using an electrical appliance, basic safety precautions should always be followed, including the following:

















#### **DANGER**

To reduce the risk of electric shock:

-  An appliance should never be left unattended when plugged in. Always unplug this appliance from the electric outlet immediately after using and before cleaning.

#### **WARNING**

To reduce the risk of burns, fire, electric shock, or injury to persons:

-  Do not allow to be used as a toy. Close attention is necessary when this appliance is used by or near children.
-  Use this appliance only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
-  Never operate this appliance if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Please consult the nearest authorized dealer or service center and use this appliance after the examination, repair, electrical or mechanical adjustment has been made.
-  Never operate the appliance with any air openings blocked. Keep ventilation openings of the sewing machine free from the accumulation of lint, dust, and loose cloth.
-  Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
-  Always use the proper needle plate. The wrong plate can cause the needle to break.
-  Do not use bent needles.
-  Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
-  Switch the sewing machine off ("O") when making any adjustments in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, etc.
-  Always unplug sewing machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.
-  Never drop or insert any object into any opening.
-  Do not use outdoors.
-  Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
-  To disconnect, turn all controls to the OFF ("O") position, then remove plug from outlet.
-  Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
-  Connect this appliance to a properly grounded outlet only. See Grounding Instructions.

### SAVE THESE INSTRUCTIONS

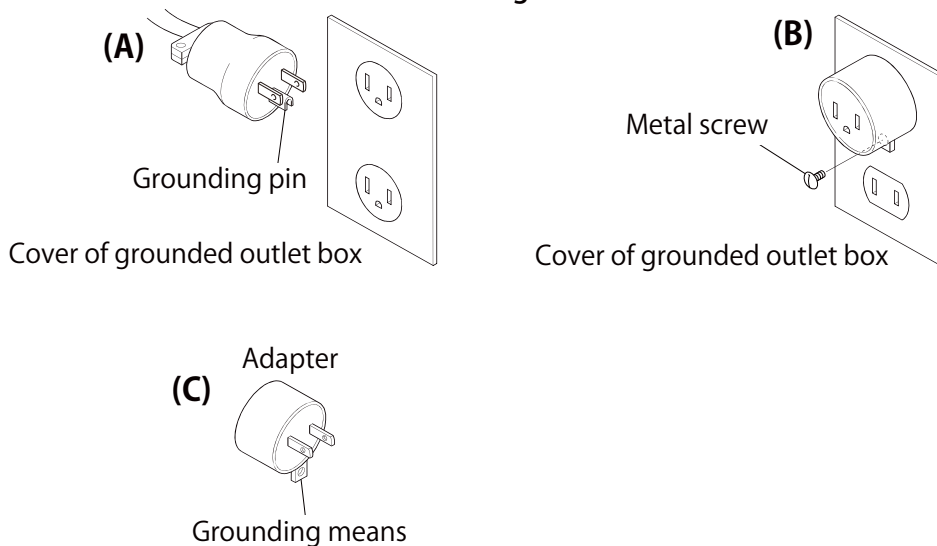
# GROUNDING INSTRUCTIONS

This product must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

## ⚠ DANGER

- ⊘ Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
- ⚠ Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded.
- ⊘ Do not modify the plug provided with the product - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.
- ⚠ [If the product is used in a nominal rating up to 120V]  
 This product is for use on a nominal 120V circuit, and has a grounding plug that looks like the plug illustrated in sketch A in Figure-1. A temporary adaptor, which looks like the adaptor illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, and the like, extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by the metal screw.

### Grounding methods



- ⊘ [If the product is used in a nominal rating more than 120V]  
 This product is for use on a circuit having a nominal rating more than 120V, and is factory equipped with a specific electric cord and plug. No adaptor should be used with this product. If the product must be reconnected for use on a different type of electric circuit, the reconnection should be made by qualified service personnel; and after the reconnection, the product should comply with all local codes and ordinances.

# Chapter 2

## About Warning Labels

Warning labels are attached to the machine to indicate the parts that may pose potential danger when you operate the machine or perform maintenance work. Observe the precautions indicated on the warning labels when using the machine.

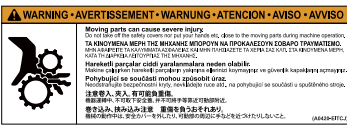
### Warning

- Do not peel or scratch the warning labels. If a warning label is lost or becomes illegible, consult your local distributor.
- When reattaching a warning label, ensure that the label is in the original position.

## 1. Type of Warning Labels

The following warning labels are attached to the machine.

**A** Pay attention not to be caught into the machine.

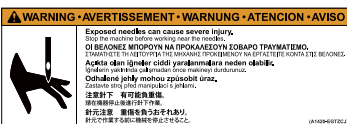


**F** Pay attention to high voltage.



There could be danger of electric shock, burn, or death. Anyone other than the service personnel designated by Tajima should not open the cover. When opening the cover, turn OFF the power switch and wait for four minutes.

**B** Pay attention around needle.

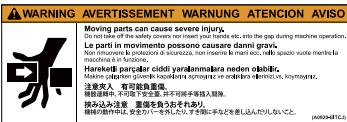


**G** Pay attention not to be caught into the machine.



There could be danger of being caught. Anyone other than the service personnel designated by Tajima should not open the cover.

**C** Pay attention not to be clipped into the machine.



**H** Pay attention not to be clipped into the machine.



There could be danger of being clipped. Do not bring your hands or face close to moving parts during operation.

**D** Pay attention not to be clipped into the machine.

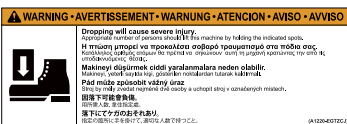


**I** Pay attention to high temperature.



You could be burnt by high temperature. Do not touch carelessly.

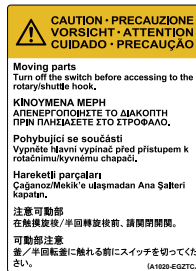
**E** Pay attention to dropping.



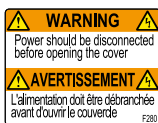
**J** Laser Product Class 1



**K** Pay attention to rotary hook.



**L** Pay attention to high voltage.

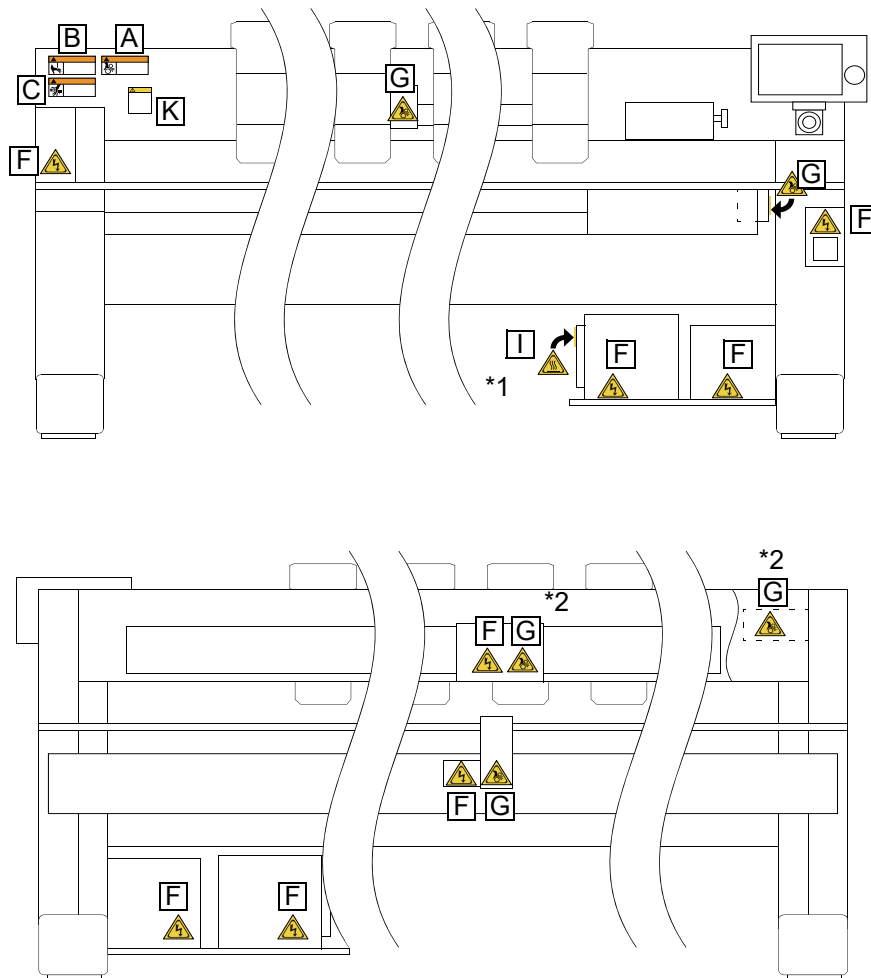


only for CSA spec.

## 2. Attaching Positions

The following figures show where the warning labels are attached for each model.

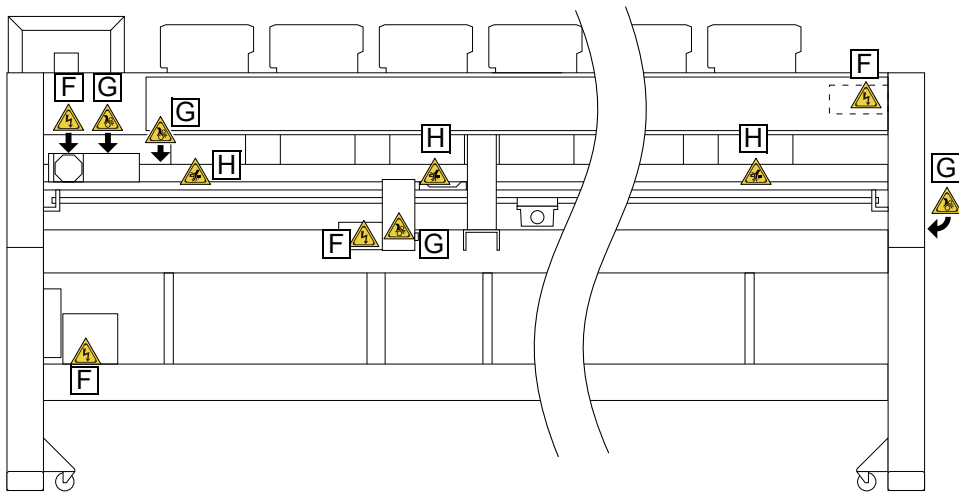
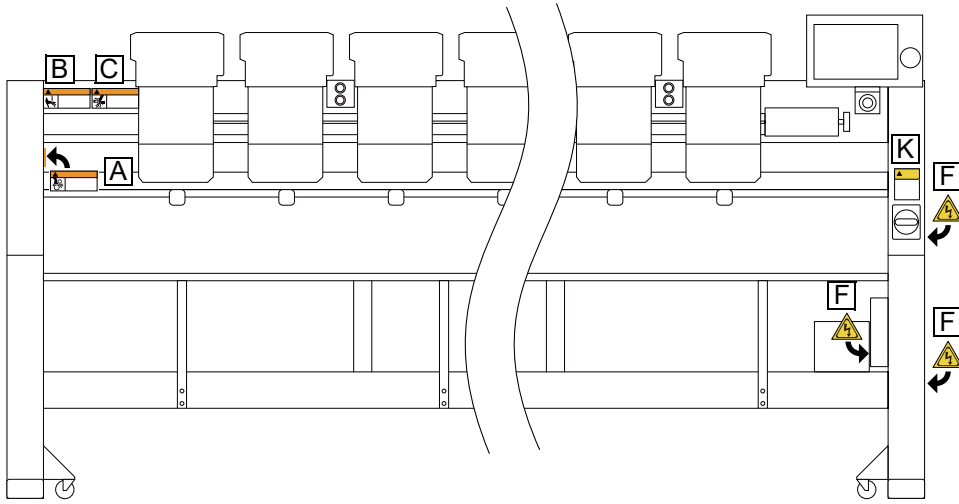
### ■ TMCR-VF, TMCP-VF, TMCS-VF



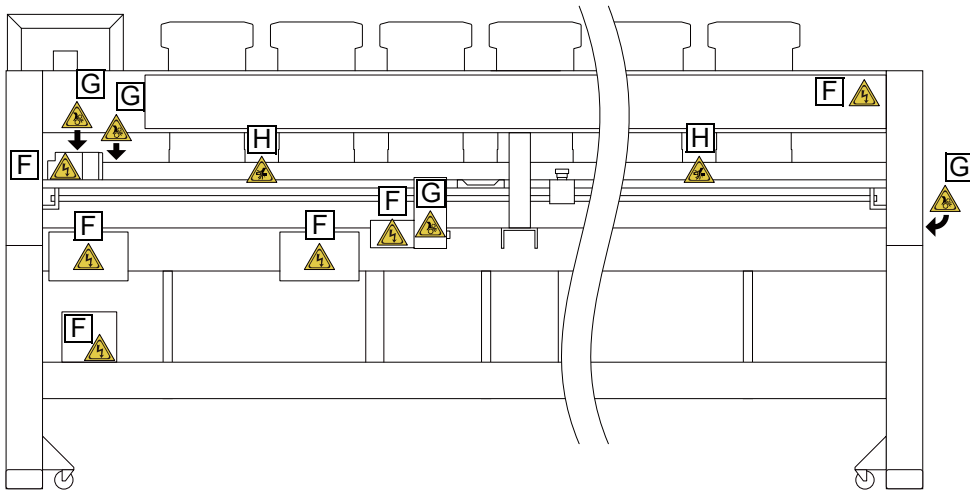
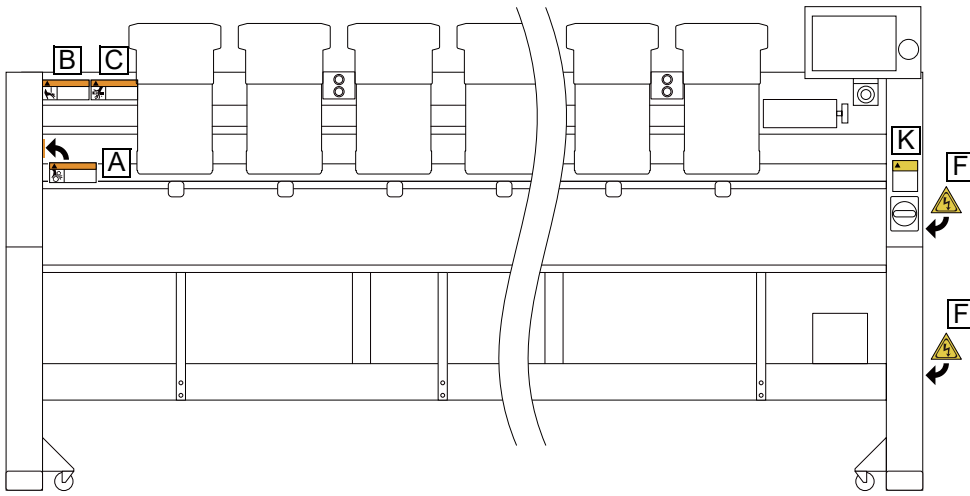
\*1 Attached to the electrical component cover

\*2 The installing position of the main shaft motor differs depending on the machine spec.

**TMEZ-KC**



■ TMAR-KC

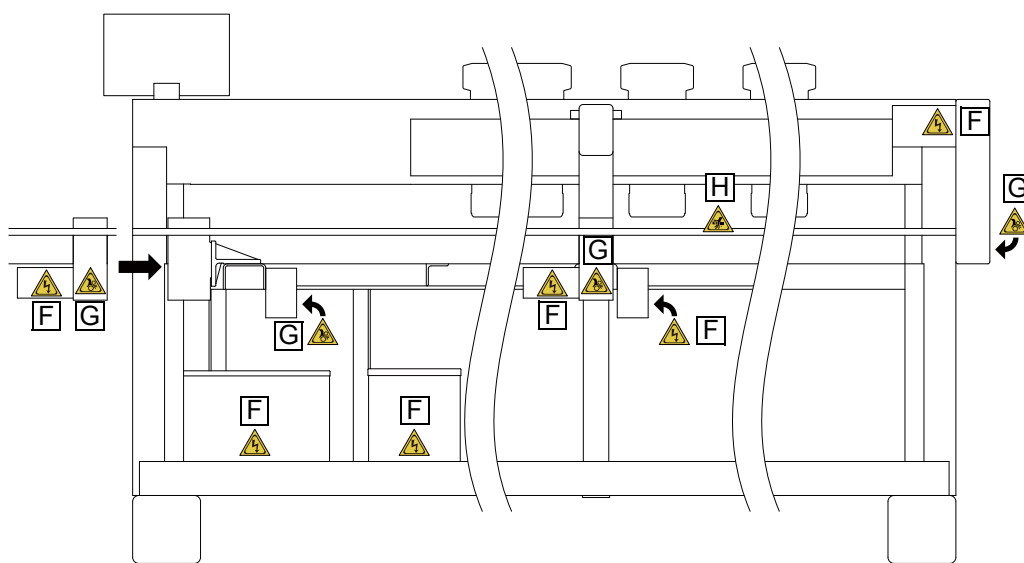
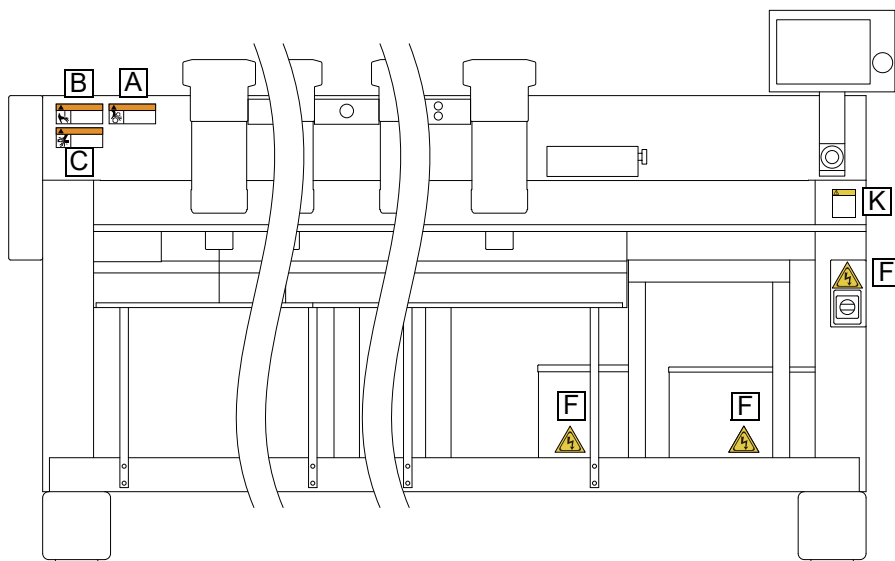


1

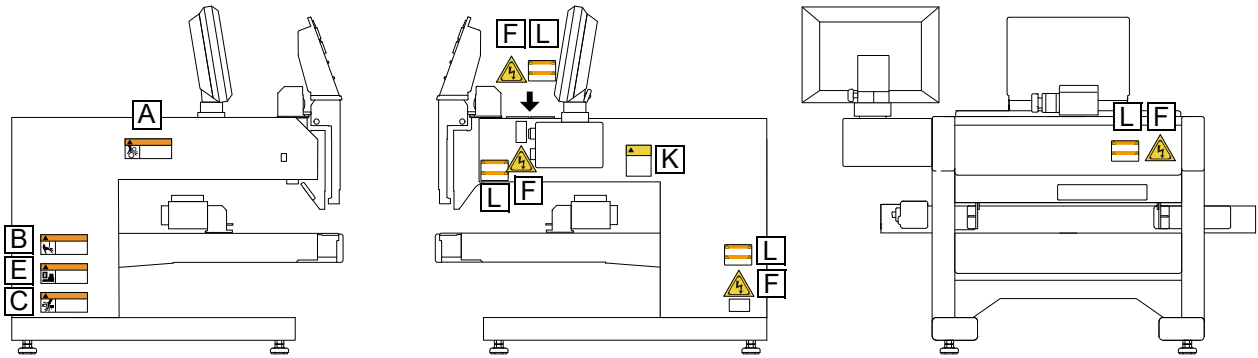
2

3

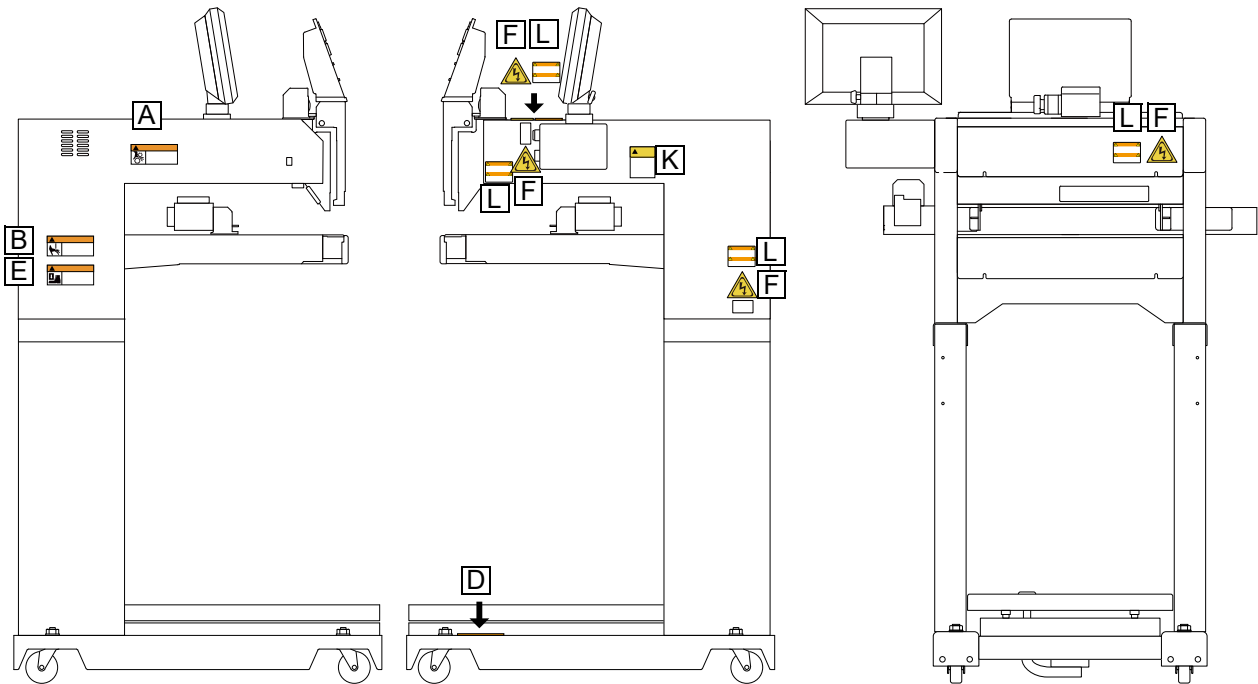
■ **TMAR-VC**



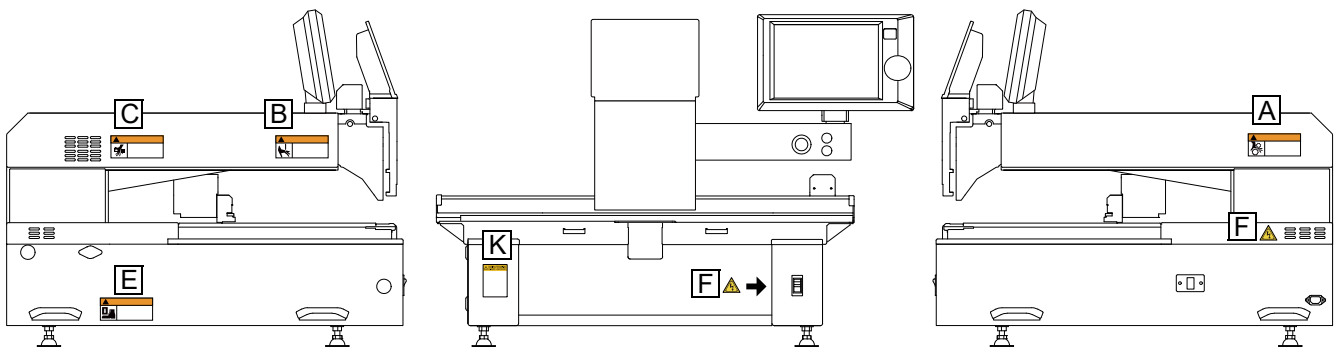
**TMEZ-SC, TMBR2-SC, TMBP2-SC**



**TMBU2-SC**



**TMBP2-XC**



1  
2  
3

# Chapter 3

## Safety Device

To ensure safety, the machine is equipped with the following safety devices.

### 1. Emergency Stop Switch

The emergency stop switch is located on the front side of the machine. Press the emergency stop switch when you must immediately stop the machine to avoid an accident or other danger.

#### ⚠ Caution

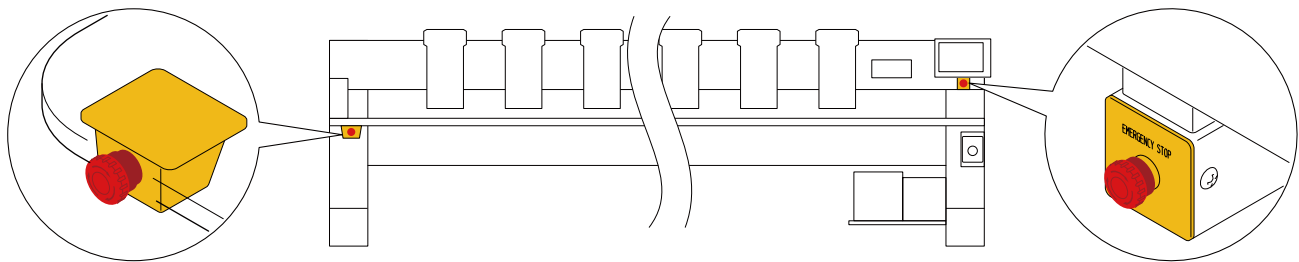
- ❗ Make sure of the location of the emergency stop switch when you use the machine for the first time.
- 🚫 Do not use the emergency stop switch instead of the normal power switch.



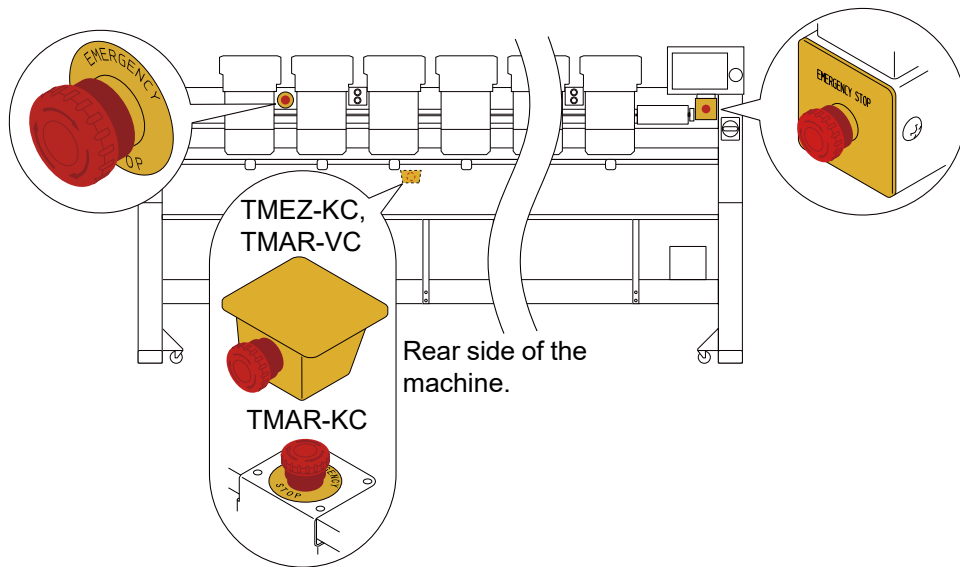
- The machine may have two or more emergency stop switches in different locations, depending on the model and spec. An additional emergency stop switch may be located on the rear side of the machine.
- The emergency stop switch appearance may differ depending on the model.

#### 1-1. Emergency stop switch locations

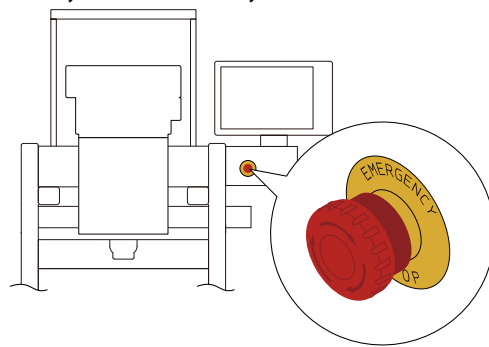
##### ■ TMCR-VF, TMCP-VF, TMCS-VF



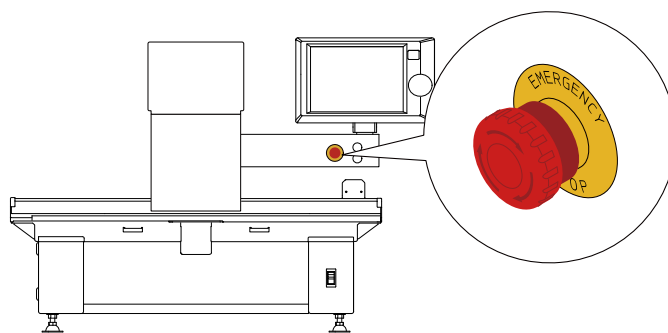
■ TMEZ-KC, TMAR-KC, TMAR-VC



■ TMEZ-SC, TMBR2-SC, TMBP2-SC, TMBU2-SC



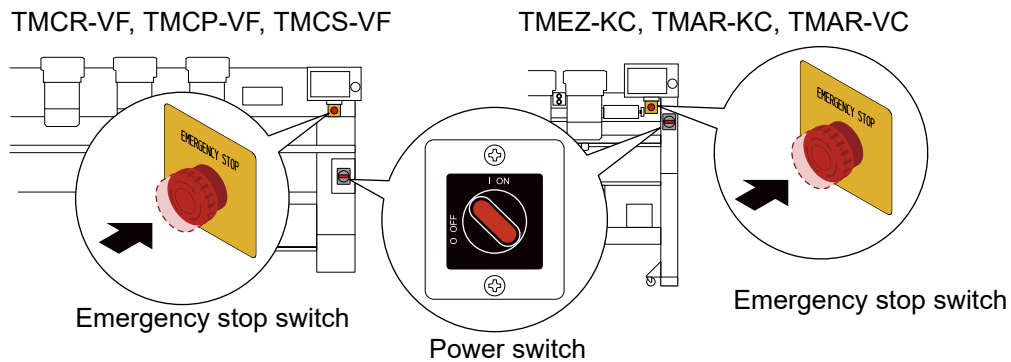
■ TMBP2-XC



## 1-2. Operating the emergency stop switch

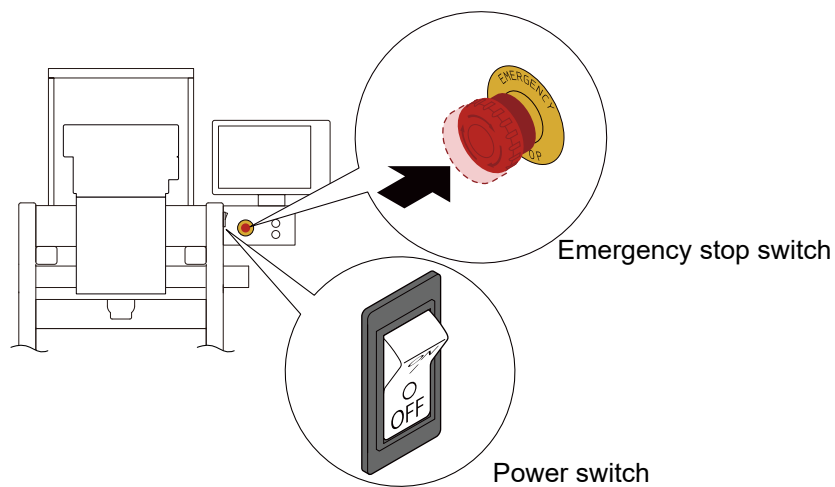
### ■ TMCR-VF, TMCP-VF, TMCS-VF, TMEZ-KC, TMAR-KC, TMAR-VC

Pressing the emergency stop switch immediately stops the machine. As a result, the emergency stop switch is locked in the pressed state, and the power switch is in the intermediate position of ON-OFF.



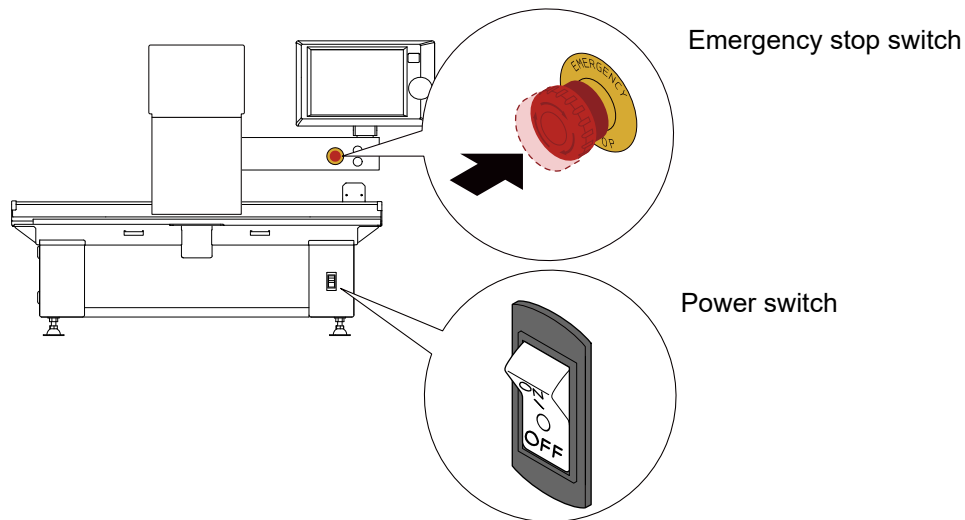
### ■ TMEZ-SC, TMBR2-SC, TMBP2-SC, TMBU2-SC

Pressing the emergency stop switch immediately stops the machine. As a result, the emergency stop switch is locked in the pressed state and the power switch is turned OFF.



## ■ TMBP2-XC

Pressing the emergency stop switch immediately stops the machine. As a result, the emergency stop switch is locked in the pressed state and the power switch is turned OFF.



### 1-3. Resetting the emergency stop switch

The resetting method differs depending on the model and spec.

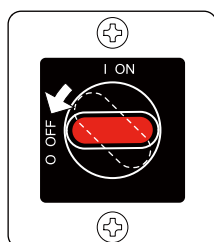
#### ⚠ Caution

- ⚠ Ensure safety before resetting the emergency stop switch.
- ⚠ Before you turn ON the power again, wait for 30 seconds or more. Otherwise the system may fail to start up normally.
- ⊘ Do not put your hands or anything else on the table when you turn ON the power. Failure to observe this may result in injury due to contact with the frame.

## ■ TMCR-VF, TMCP-VF, TMCS-VF, TMEZ-KC, TMAR-KC, TMAR-VC

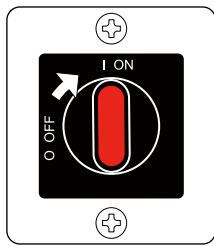


- 1 Turn the emergency stop switch clockwise. It is unlocked.



- 2 Set the power switch from the intermediate position to the OFF position.

## 1. Emergency Stop Switch



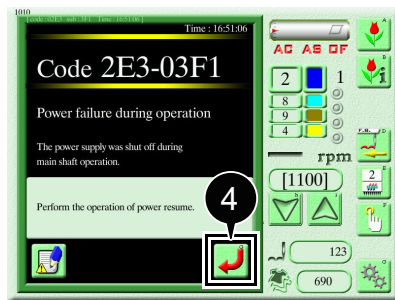
- 3 Before you turn ON the power switch, wait for 30 seconds or more.


The system starts up.

The message screen appears if you press the emergency stop switch while the machine is running.



- The main screen appears if you press the emergency stop switch while the machine is stopping.

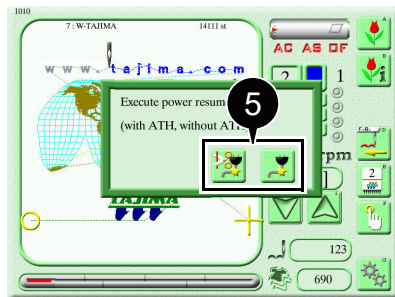


- 4 Press  on the message screen.

The power resume method selection screen appears.



- The content displayed on the display differs depending on the model.



- 5 Select the power resume method.



:Perform power resume after trimming the thread.



:Perform power resume without trimming the thread.



- When the power is resumed, the machine checks the absolute origin and the frame moves to a position several stitches back from the position where it was when the power was turned OFF.

**TMEZ-SC, TMBR2-SC, TMBP2-SC, TMBU2-SC, TMBP2-XC**

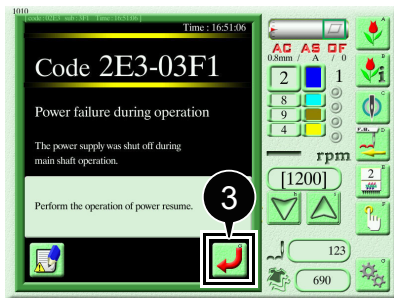



1 Turn the emergency stop switch clockwise. It is unlocked.

2 Before you turn ON the power switch, wait for 30 seconds or more. The system starts up. The message screen appears if you press the emergency stop switch while the machine is running.



- The main screen appears if you press the emergency stop switch while the machine is stopping.

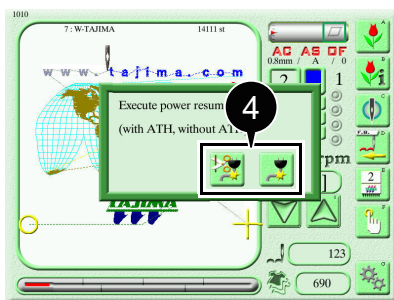


3 Press  on the message screen.

The power resume method selection screen appears.



- The content displayed on the display differs depending on the model.



4 Select the power resume method.



:Perform power resume after trimming the thread.



:Perform power resume without trimming the thread.



- When the power is resumed, the machine checks the absolute origin and the frame moves to a position several stitches back from the position where it was when the power was turned OFF.



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