

# **SAFETY PRECAUTIONS**

## **ITEMS TO NOTICE**





## 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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## 1. Warning and caution

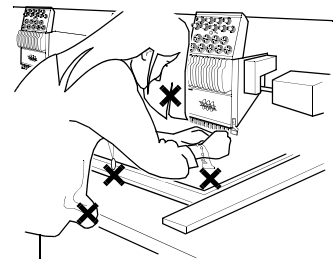
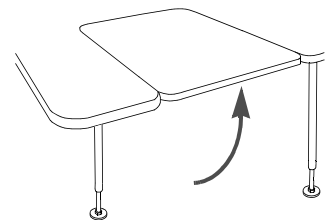
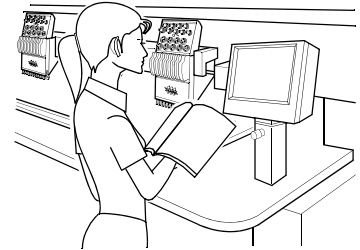
### 1-1. Warning

#### WARNING

To prevent accidents resulting in injury or death and physical damage, the following items must be observed strictly when operating the machine.

[Before operating the machine]

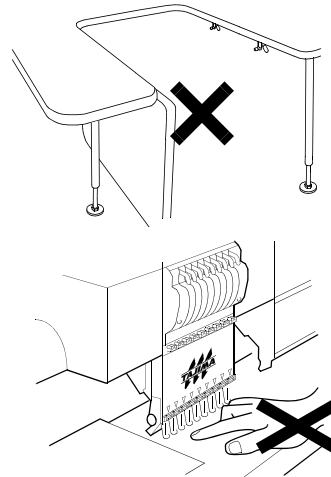
-  This machine is designed for industrial use. Use this machine for semi- or finished textile products and similar materials. Using the machine for other purposes must be avoided.
-  Use the machine in the environment where only authorized persons are permitted to enter, so that unauthorized persons will not manipulate the machine.
-  Only the persons who are sufficiently trained for the operation must operate the machine.
-  Do not have children access to vicinity of the machine.
-  The rear of the machine is not a working area. If you have to move to the rear of the machine, make sure to turn off the main switch.
-  Read the user's manual and thoroughly understand the contents of operation before starting the machine.
-  Do not stand on the machine.
-  After threading and/or adjusting the machine, lift up and fix the sub table securely (model with sub table).
-  Wear proper clothes and tidy up yourself so that you can smoothly perform the operation.
-  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 units of the machine before starting the machine.
-  Do not damage, modify or heat the power or other cables. Do not exert undue force to them, either. Otherwise the cables will be damaged causing fire and electric shock.
-  Insert the power cable plug fully. If a metallic part touches a blade in the plug, it may cause fire and/or electric shock.
-  When pulling out power cord, hold the plug to pull out the cord. Pulling the power cord by holding the cord may damage the cord and the plug, causing fire and electric shock.



## ! WARNING

### [During the Machine Operation]

- !** During operation, fix the sub table securely in the state of being lifted (Model with sub table). Unexpected movement of the frame could injure you.
- ⊘** Do not use a device such as a cellular phone that generates microwave near the control circuits of the power supply box, the operation panel box, etc. Microwave may cause malfunctioning of the machine.
- ⊘** Do not remove the covers for the shaft and the pulleys when the machine is running. Do not run the machine without the covers.
- ⊘** Do not have your hands, etc. access to the vicinity of needle during operation. Sticking of needle could injure you.
- ⊘** Do not put your hands or face near the moving parts of the machine. Especially, it is dangerous around needle, rotary hook, take-up lever, pulley and speed reduction box.
- ⚠** Keep away electrical units from water and chemicals. Entry or splashing of them into control units leads to short circuits, causing fire, electric shock and other troubles. If water or other chemicals enter the unit, shut off the power at the primary power source of the machine and contact your local distributor.



### [When adjusting the machine]

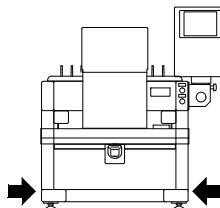
- !** When you perform threading or check finishing, be sure to stop the machine.
- !** Shut off the power supply by turning off the power switch before manually rotating the main shaft of the machine.
- ⚠** Turn off the primary power source before opening the electrical boxes. Be sure to turn off the power switch of the machine before turning off the primary power source. If not, it may cause electric shock.

## ! WARNING

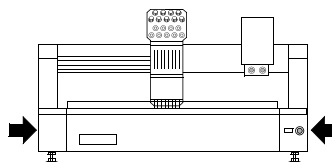
[When Carrying the Machine (Single-head machine)]

- ! When carrying the machine, hold the correct spots. Dropping could cause injury or breakdown.

TMBR-SC, TMBP-SC

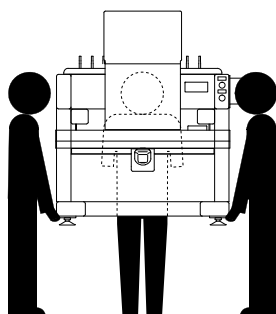


TFMX-C  
TWMX-C



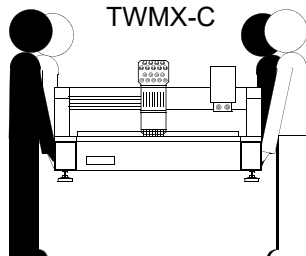
- ! Carrying of this machine should be performed by three or more persons. Dropping could cause injury or breakdown.

TMBR-SC, TMBP-SC



- ! Carrying of this machine should be performed by four or more persons. Dropping could cause injury or breakdown.

TFMX-C  
TWMX-C

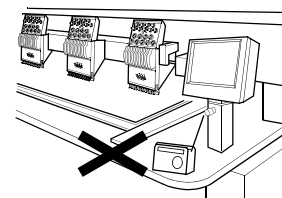
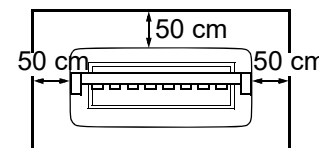
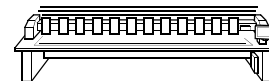
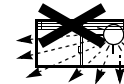
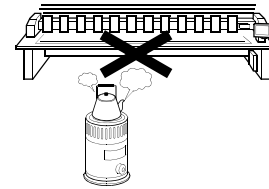
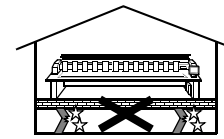
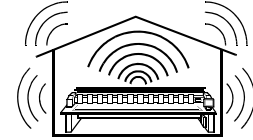


## 1-2. Caution

 **CAUTION**

## [Installation environment]

- !** Prevent the operation noise in the environment.  
This machine is designed to reduce noise during operation. To improve the sound insulation performance in a factory still more, use the interior finish materials which show high sound insulating performance for the walls, ceiling, and floor of the factory.
- !** Install the machine on a sturdy floor.  
The floor structure must be strong enough to bear the machine weight (indicated on the spec. plate).
- !** Avoid dust and moisture.  
Since dust and moisture lead to dirt and rust on the machine, use the machine in an environment of facility of air conditioner, and clean the working place periodically. Use caution not to expose the machine to direct wind from the air conditioner so that embroidery threads do not become disheveled.  
Humidity: 30 to 95%RH (relative humidity) without condensation  
Ambient temperature: 5 to 40 C (during operation), -10 to 60 C (during storage)
- ⊘** Avoid direct sunlight.  
If the machine is exposed to direct sunlight over an extended period of time, the machine body may be discolored or deformed. Put curtains or shades to the site to prevent the machine from direct sunlight.
- !** Provide enough space for maintenance.  
Taking account of workability when maintaining and inspecting the machine, provide 50 cm or more working area to right, left and rear directions of the machine against obstacles such as walls.
- !** Pay attention to interference of radio wave.  
Although the machine is designed not to apply radio wave to other equipment, there could be cases where it causes interference depending on model, operation environment and type of equipment. If such problems arise, install the equipment as apart from the machine as possible.



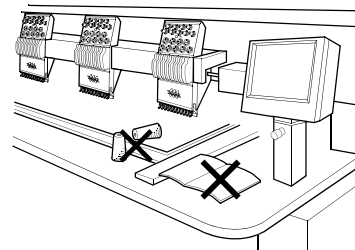
## ! CAUTION

[Installation environment (Single-head machine)]

- ⊘ Do not use the machine at a place where a high output high-frequency generator, high-frequency welder, etc. generates strong electric field or magnetic field. Malfunctioning of the machine could cause injury or damage of the machine.
- ! Place the machine on a firm stand horizontally. Dropping could cause injury or breakdown.
- ! Install the machine so that the embroidery frame or the drive section of the machine does not hit things or wall near the machine. It could cause injury or damage of the machine.

[For all models]



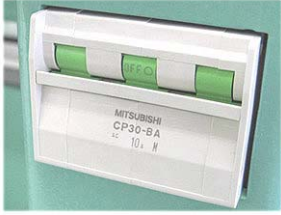
- ! For long life machine operation, operate the machine with about 70% of the maximum speed as operation for total fitting for about two weeks after installation. By performing operation for total fitting, life of the machine will become longer, which will be useful to avoid unexpected troubles.
- ! Assure enough illumination. Assure 300 lux or more for working areas including underneath part of the machine table when changing under threads or performing daily maintenance.
- ⊘ Do not use bent needles or needles that are not suitable for the material.
- ! After the completion of work, shut off the power supply switch of the machine and also the primary power supply switch of power distributor panel.
- ⊘ Do not put things on the table.
- ⊘ Do not disassemble the machine.
- ! This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- ! Children should be supervised to ensure that they do not play with the appliance.



## 2. Switch

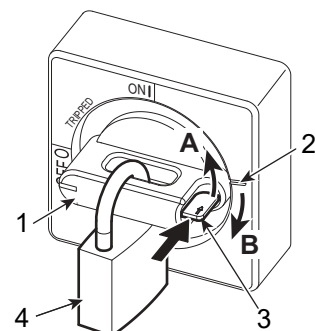
### 2-1. Power switch




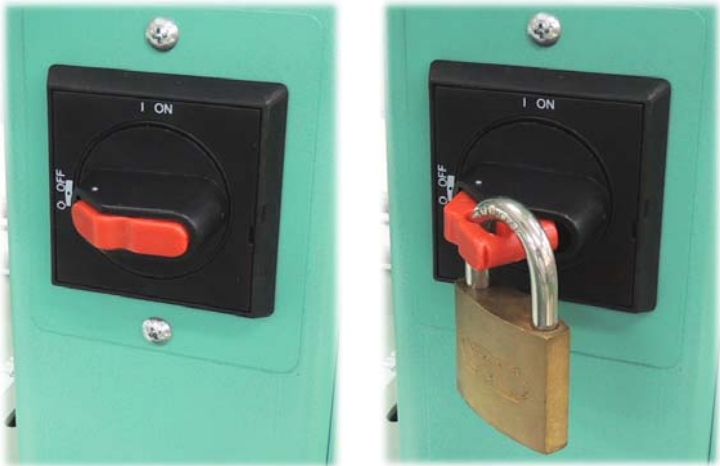
The machine is equipped with switch as shown in the table below (differs depending on model, spec.).

	TCMX, TLMX, TFMX	TFMX, TFMX-C, TWMX-C, TCMX, TLMX
ON		 <p>Single head machine</p> 
OFF	 <p>Regarding how to lock, please refer to the description below.</p>	 

[How to lock]

- (1) Turn the handle 1 (right figure 1) to the direction A until it reaches the position of groove 2.
- (2) Return the handle 1 to the original position (the direction B) with the lock plate 3 thrust.
- (3) Lock (Commercial item 4).



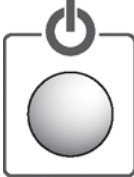
	TMBR-SC TMBP-SC	TMAR-KC TYPE-2
ON		
OFF		<p>A locked state</p> 

## 2-2. Emergency stop switch



When you press the following switch, this machine will stop (switch will be locked). Regarding the condition of the machine and how to release the lock after stopping, refer to the chart below.



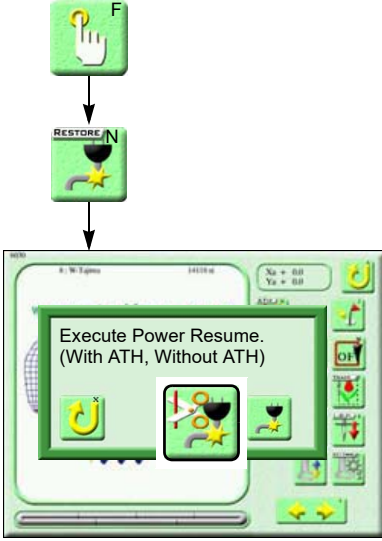




Typical example

Machine Type	Condition	How to release the lock
TFMX、TFMX-C、 TWMX-C、 TCMX、TLMX	If EN spec. <sup>[*1]</sup> , power will be turned OFF.	Turn the switch clockwise (Power will be turned ON).
	If not EN spec, Sleep mode (Power save mode) will work.	<p>(1) Turn the switch clockwise.</p> <p>(2) Press the sleep mode key. (The sleep mode will be canceled.)</p>  <p>After that, the screen of "Power Resume" will be displayed depending on the machine condition. Therefore, follow the screen to perform "Power Resume".</p>

\*1:EN-spec. means the safety standard applied to European countries.

Machine Type	Condition	How to release the lock
TMBR-SC TMBP-SC	Power OFF The power switch is "ON".	<div data-bbox="759 405 1444 472" style="background-color: yellow; border: 1px solid black; padding: 5px; text-align: center;">  <b>CAUTION</b> </div> <div data-bbox="759 472 1444 622" style="border: 1px solid black; padding: 5px;"> <p> Wait for five seconds or more after pressing the emergency stop switch to cancel it. Otherwise, when turning ON the power again, the software may not start up normally.</p> </div> <p>When the emergency stop switch is pressed, it is locked and the machine stops by the power shut off but the power switch is still "ON".</p> <p>Wait for five seconds or more, and turn the switch clockwise. (Lock release) The power will be turned ON.</p> <p>The screen of "Power Resume" may appear depending on the machine condition. Therefore, execute according to the screen display.</p>

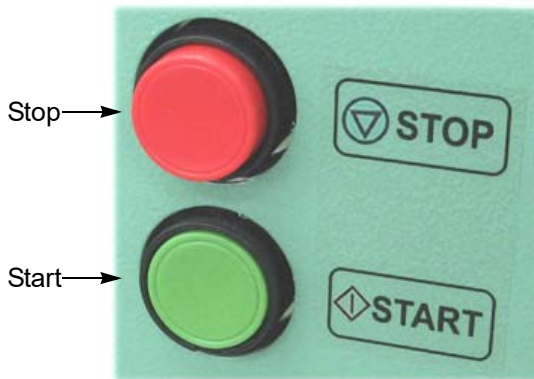
Machine Type	Condition	How to release the lock
<p>TMAR-KC TYPE-2</p>	<p>Power OFF The power switch is in the "Middle position".</p>	<p>When the main shaft stops at other than the fixed position The code No.2E3 will be displayed after turning OFF/ON the power switch. After resetting, the screen "Power Resume" will be displayed. Therefore, perform operation according to the screen</p> <p>When the main shaft stops at the fixed position Since the code No.2E3 will not be displayed after turning OFF/ON the power switch, execute following "Power Resume" after checking thread cast-off, etc.</p> <div style="border: 1px solid black; background-color: yellow; padding: 5px; text-align: center;">  <b>CAUTION</b> </div> <div style="border: 1px solid black; padding: 5px;">  When performing this operation, do not put your hands etc. on the machine table. Moving frame could injure you.         </div> <ol style="list-style-type: none"> <li>(1) Turn the switch clockwise.</li> <li>(2) Turn OFF/ON the power switch (Wait for 30 seconds or more).</li> <li>(3) Perform operation of "Power Resume".</li> </ol> <div style="text-align: center;">  </div> <div style="margin-top: 10px;">  The frame will be moved after thread trimming.         </div> <div style="margin-top: 10px;">  The frame will be moved without thread trimming.         </div>

### 2-3. Start/stop switch

## CAUTION

! Pay enough attention to surrounding safety before you start the machine. Moving needle bar and/or frame could injure you.

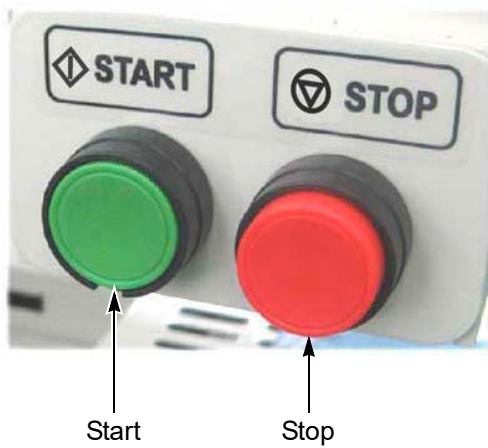
TFMX-C, TMAR-KC TYPE-2



Single head machine (TMBR-SC, TMBP-SC)



Single head machine (TFMX-C, TWMX-C)



 Switch

[During stop]

## ◆Start switch (green)

Press it and release it immediately. Press it longer for TMBR-SC, TMBP-SC.	Operation starts.
Keep on pressing.	Inching operation starts. When released, the machine will run normally.

## ◆Stop switch (red)

Press it and release it (up to 10 stitches).	The machine will perform frame back/forward by 1-stitch unit.
Keep on pressing. (For 11 stitches or more)	The machine will continue frame back/forward (Even if you release it, the machine will not stop). Pressing it again will stop frame back/forward.

[During operation]

## ◆Stop switch (red)

Press	Operation stops.
-------	------------------

## ◆Start switch (green) (TMAR-KC TYPE-2 only)

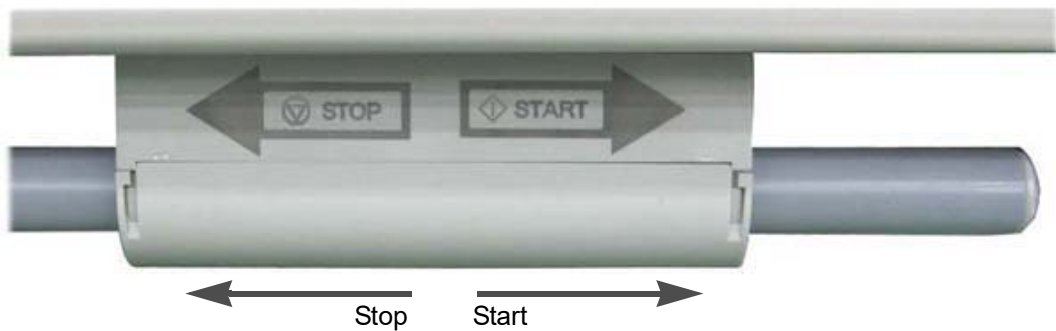
Keep on pressing	The embroidery speed will slow down and become Inching operation. Releasing it will return to the original embroidery speed.
------------------	---

2-4. Bar switch

**⚠ CAUTION**

! Pay enough attention to surrounding safety before you start the machine. Moving needle bar and/or frame could injure you.

TFMX, TLMX, TCMX



[During stop]

Move it to the right and release it immediately.	Operation starts.
Move it to the right and hold it at that position.	Inching operation starts. When released, the machine will run normally.
Move it to the left and release it (up to 10 stitches).	The machine will perform frame back/forward by 1-stitch unit.
Move it to the left and hold it at that position (11 stitches or more).	The machine will continue frame back/forward (Even if you release it, the machine will not stop). Returning the switch to the right and moving it to the left again will stop frame back/forward,

[During operation]


Move it to the left and release it.	Operation stops.
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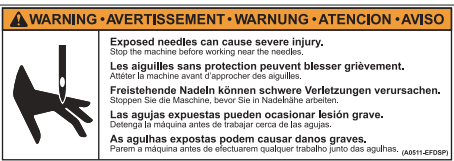



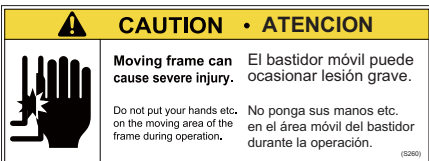

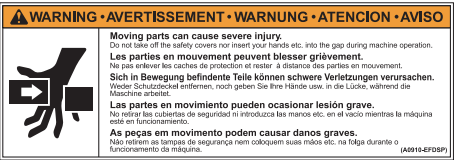


Warning labels


### 3. Warning labels

The machine has warning labels that bear instructions for safe operation. Machine operators must follow the instructions shown on the warning labels.

Do not detach the label nor make the printing surface illegible by paint etc. If the warning label is missed or damaged, contact your local distributor.

 Label (chart below) to be attached to a machine differs depending on model. Regarding attaching position of each label, refer to the user’s manual or “MACHINE SETUP INSTRUCTIONS” of the machine.

<p><b>Pay attention around needle.</b></p> 	<p><b>Pay attention not to be caught into the machine.</b></p> 
<p><b>Pay attention to dropping</b></p> 	 <p>There could be danger of being caught or clipped. Other persons than the service personnel certified by TAJIMA should not open the cover.</p>
<p><b>Pay attention to moving frame</b></p> 	<p><b>Pay attention to high temperature</b></p>  <p>You could be burnt by high temperature. Do not touch carelessly.</p>
<p><b>Pay attention not to be clipped into the machine.</b></p>  <p><b>Pay attention not to be clipped into the machine</b></p>  <p>There could be danger of being clipped. Do not put your hands close to the moving parts during machine operation.</p>	<p><b>Pay attention to high voltage</b></p>  <p>There could be danger of electric shock, burning, or death. Persons except for service personnel designated by Tajima should not open covers. When opening covers, wait for four minutes after turning off the power switch.</p>

 Warning labels

Pay attention to rotary hook / power  
switch OFF



**CAUTION · PRECAUZIONE  
VORSICHT · ATTENTION  
CUIDADO · PRECAUÇÃO**

**Moving parts**

Turn off the switch before accessing to the rotary/shuttle hook.

**Parti in movimento**

Spegner l'interruttore di alimentazione prima di toccare il Crochet/Shuttle hook.

**Bewegliche Teile**

Vor Zugriff auf den Greifer/Pendelgreifer Stromschalter aus.

**Pièces mobiles**

Arrêtez l'interrupteur avant d'accéder au crochet/à la navette.

**Las partes en movimiento**

Apague el interruptor eléctrico antes de acceder al Gancho Giratorio/Gancho oscilante.

**Peças em movimento**

Desligue a chave geral antes de acessar a Lançadeira Rotativa/Lançadeira Oscilante.

(A1010-EIDFSP)



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■ **Manufactured by: TISM Co.,Ltd.**

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