USER'S MANUAL

COMPACT SEWING MACHINE "NEO"

TEJTⅡ-C

M-IC2-01-E
2006.05

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Foreword

This user's manual is a guidebook for using TAJIMA embroidery machine TEJTII-C "NEO" correctly. It describes about operation of the machine and items to notice for use. Please read this manual and use the machine after understanding the contents.

This manual is composed of the following contents.

[Important safety instructions]

[Important warning items for safe operation]

[Construction of the machine]

[Basic operation]

[Setting • operation]

[Outline of function]

[Troubleshooting and maintenance]

[Electrical component]

Regarding optional devices, please refer to the user's manual of the device you have chosen.

This manual may contain discrepancies in detailed information when compared with the actual product you have purchased due to continued research and improvements. If any question about the machine or contents of this manual arises, please consult your TAJIMA distributor.

Please keep this manual near the machine for immediate reference. When this manual is not used, keep it carefully.

Tokai Industrial Sewing Machine Co., Ltd.

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Important safety instructions

To use this machine safely, it is necessary to handle it correctly.

Please read the IMPORTANT SAFETY INSTRUCTIONS in this manual carefully and do not attempt operation or maintenance of the machine before you thoroughly understand the items written under IMPORTANT SAFETY INSTRUCTIONS.

Items that require your special attention on operation and maintenance of the machine are specified below with the warning symbol and signal word. These items must be strictly observed to ensure safety during operation and maintenance. Signal word definition is given below.

⚠ DANGER

Indicates that there is a lot of danger or death or serious injuries [*1] if the instruction is not observed.

⚠ WARNING

Indicates that there is a likelihood of death or serious injuries [*1] if the instruction is not observed.

⚠ CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury [*2] or property 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.

: Prohibited items

: Items that may cause electric shock if not observed

: Items that must be followed carefully to ensure safe operation

: Instructive items regarding connection of grounding wire

⚠ : Items that must be observed to perform works comfortably

🕮 : Items that explain the contents of sentences in detail and items that complement the contents.

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8. FRAME SETTING

9. Manual operation

10. Outline of functions

11. TROUBLESHOOTING AND MAINTENANCE

12. Electro-component parts

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1. Important warning items for safe operation

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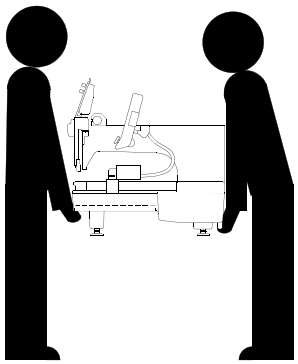
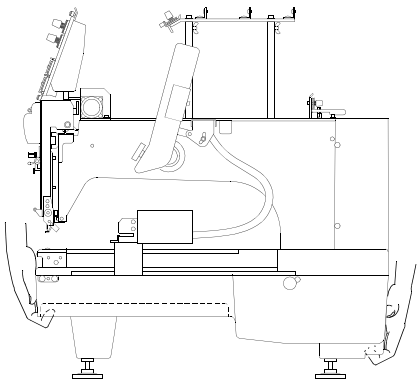
Carrying

WARNING

- **Carrying of this machine should be performed by two or more persons.**
  Dropping could cause injury or breakdown.
- **When carrying the machine, hold the correct spots.**
  Dropping could cause injury or breakdown.





CAUTION

- **Do not transport, store, and operate the machine in the area of which altitude exceeds 1,000m.**

Installation

CAUTION

- **Do not use the machine in ambient temperature of 45° C or more, or 5° C or less at running, at a place with much humidity, and outside.**
  It could cause breakdown.
- **Do not use the machine at a place where strong electric field or magnetic field is generated by such as high output high-frequency generator, high-frequency welder, etc**
  It could cause injury or breakdown due to malfunction.
- **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.

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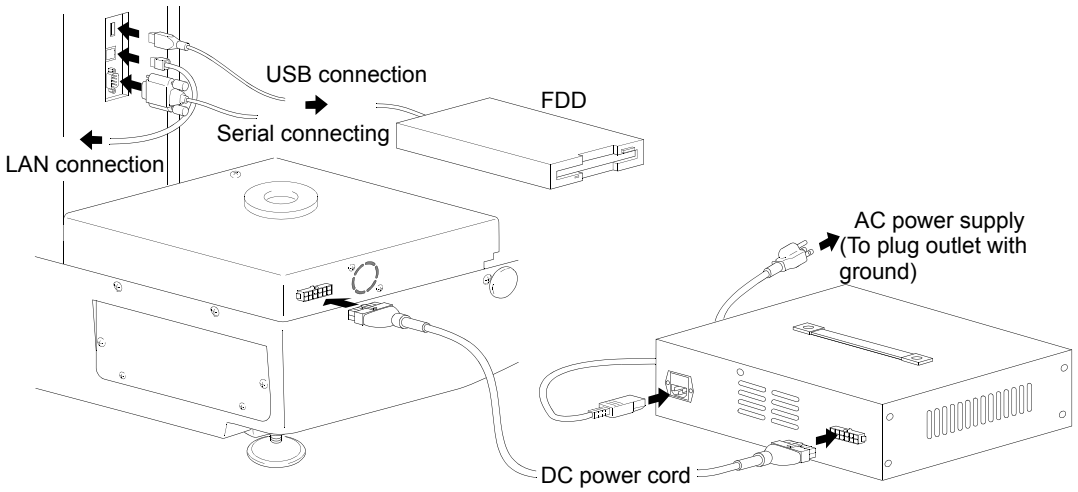
Wiring

Insulation resistance: 10M ohms or more (500v megger)

CAUTION

Connect grounding wire of power cord to the ground (class 3 or more, grounding resistance 100 ohms or less).
If using the machine without grounding, there could be a danger of electric shock due to leak current.



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Instructions for use

⚠ WARNING

- **Do not have your hands or face access to moving unit during running of the machine. Especially, the vicinity of needle is dangerous. It could cause injury.**
- **Do not damage, modify or heat the power or other wiring cords. Do not exert undue force to them, either. Cord will be damaged causing fire or electric shock.**
- **Insert power cord securely. If electric poles of power plug touch metal, etc., it could cause fire or electric shock.**
- **Keep away electric section from water and chemicals. Circuit will have short-circuit causing fire or electric shock. If entered, turn off the power switch and contact the distributor after turning off the primary power supply.**
- **When pulling out power cord, hold the plug to pull out the cord. Pulling out cord will cause cord and plug to be damaged causing fire or electric shock.**

⚠ CAUTION

- **For using the machine for a long time, use the machine with about 70% of the maximum speed as “operation for total fitting” for about one month after purchase. By performing operation for total fitting, life of the machine will become longer, which will be useful to avoid unexpected troubles.**
- **This machine is a machine for industrial use. Use this machine for embroidering textile goods, semi-finished goods and similar materials. Do not use this machine for other purposes in principle. It could cause breakdown.**
- **Only the persons who are sufficiently trained for the operation must operate the machine. Wrong operation could cause injury.**
- **Read this user's manual thoroughly, understand the contents of operation securely, and then operate the machine. Wrong operation could cause injury.**
- **Wear proper clothes and tidy up yourself so that you can smoothly perform the operation. Operating the machine with improper clothing and appearance could cause injury.**
- **Do not ride on the machine. It could cause injury.**
- **Do not use the machine with take-up lever guard or cover of movable unit detached. It could cause injury.**

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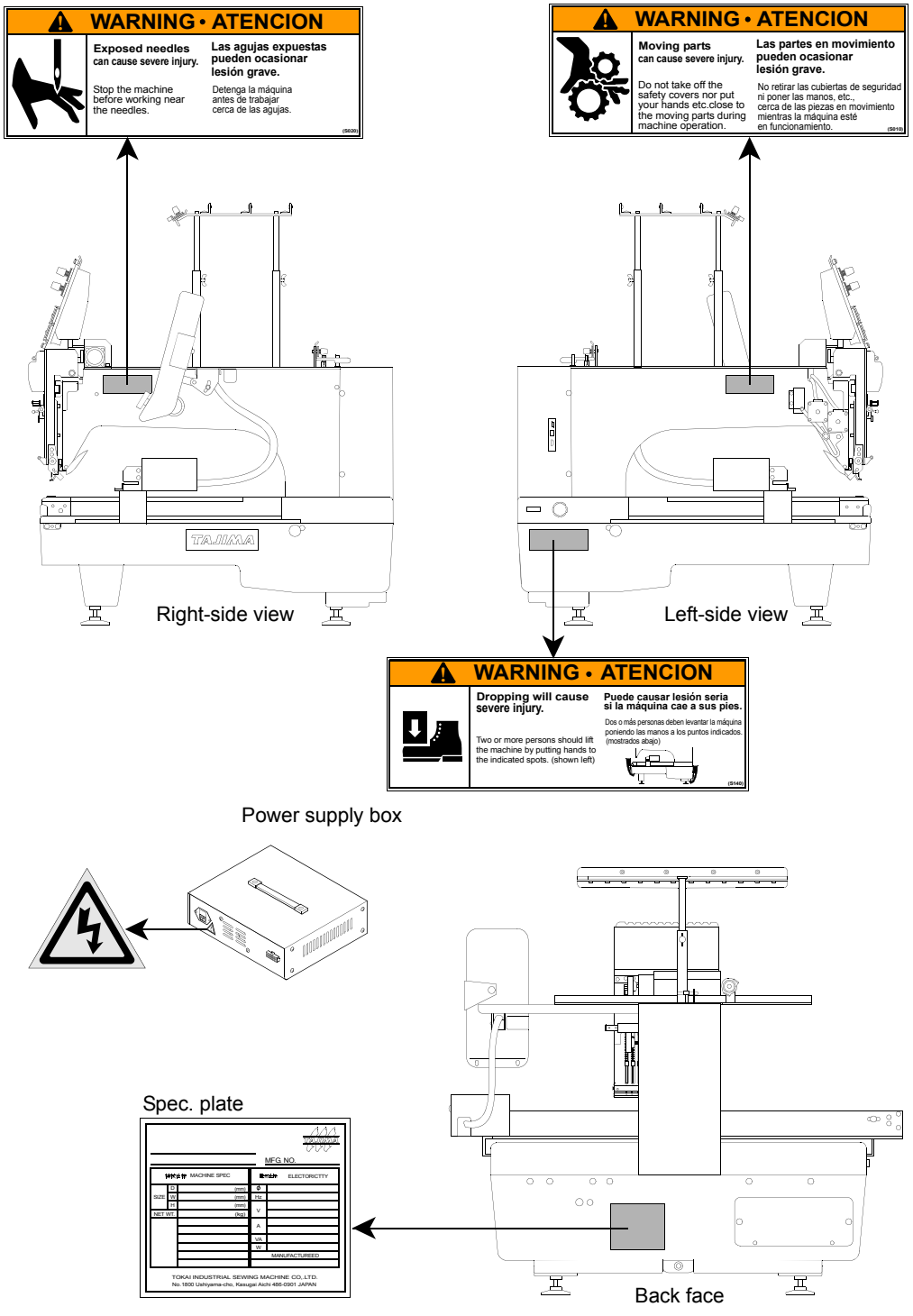
Warning labels

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. In addition, if a waning label is missed or damaged, please consult your local distributor.



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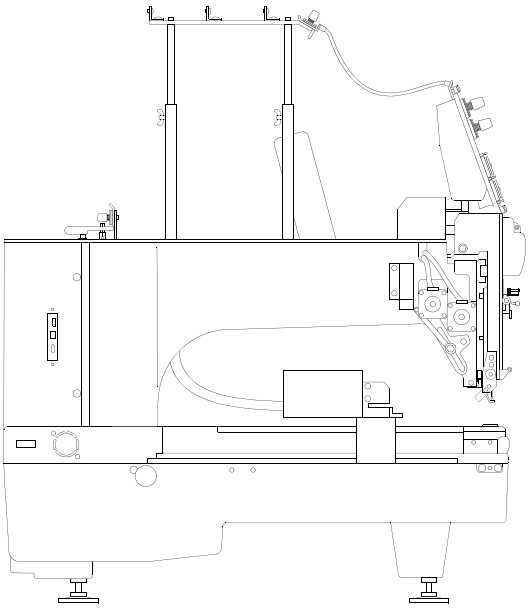
2. Machine construction



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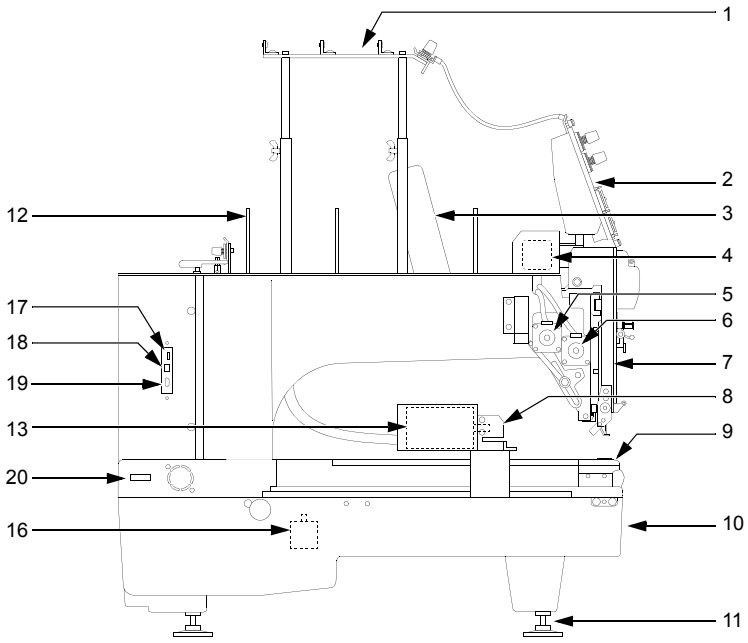
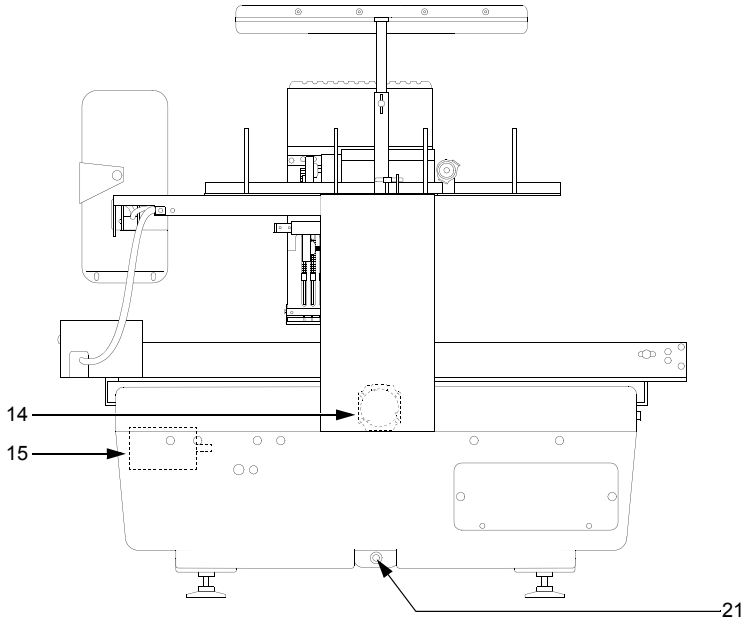
Name of each part

1. Main body of embroidery machine (multi needle machine)





1. Thread guide system
2. Tension base
3. Operation panel box
4. Color change motor
5. Thread holding motor
6. Jump motor
7. Needle bar case
8. Z-spec. frame
9. Needle plate
10. Stand
11. Leveling adjuster
12. Thread stand stud
13. X-axis motor
14. Main shaft motor
15. Y-axis motor
16. ATH motor
17. USB port
18. LAN port
19. Serial port
20. Power supply connector
21. Oil draining hole

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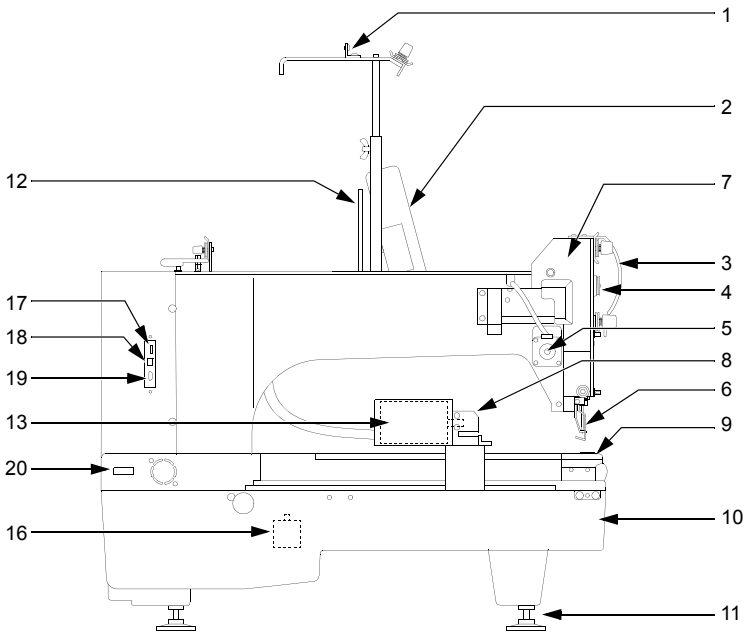
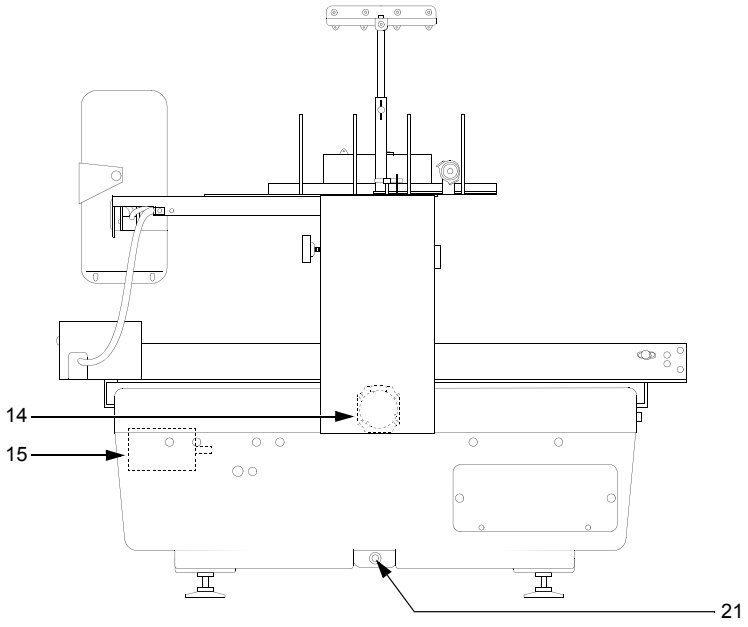
2. Main body of embroidery machine (single needle machine)





1. Thread guide system
2. Operation panel box
3. Take-up lever guard
4. Rotary-type tension disk
5. Thread holding motor
6. Thread wipe pin
7. Needle bar case
8. Z-spec. frame
9. Needle plate
10. Stand
11. Leveling adjuster
12. Thread stand stud
13. X-axis motor
14. Main shaft motor
15. Y-axis motor
16. ATH motor
17. USB port
18. LAN port
19. Serial port
20. Power supply connector
21. Oil draining hole

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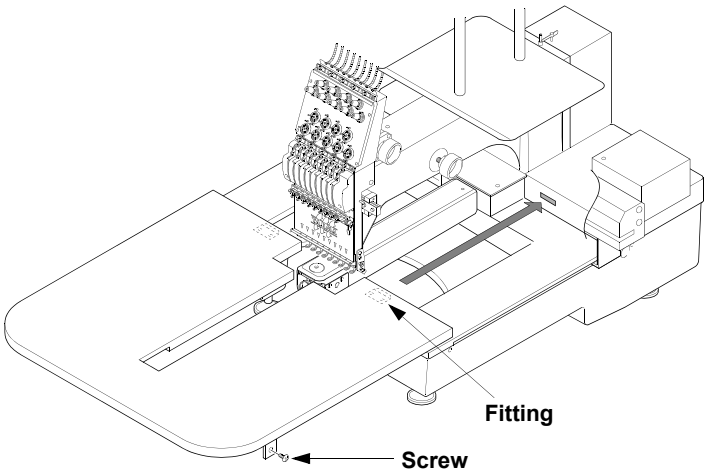
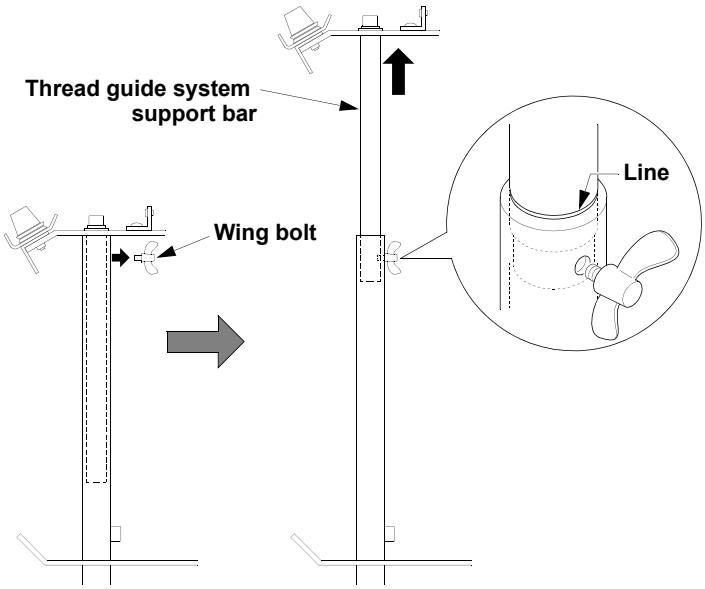
Table



To mount the table, insert the fitting to the installation opening so that it is aligned, and then tighten the screw. When detaching the table, do not lose the screw.

Thread guide system support bar



Remove the wind bolt and pull up the thread guide system support bar. Fix the wing bolt at the position where you can see the line.

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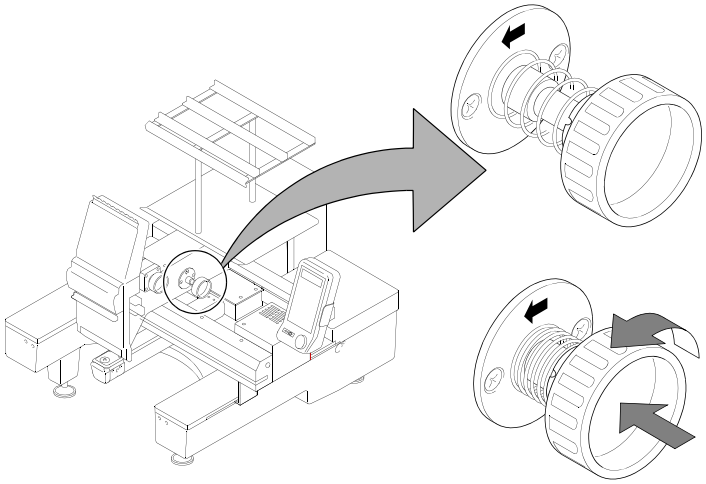
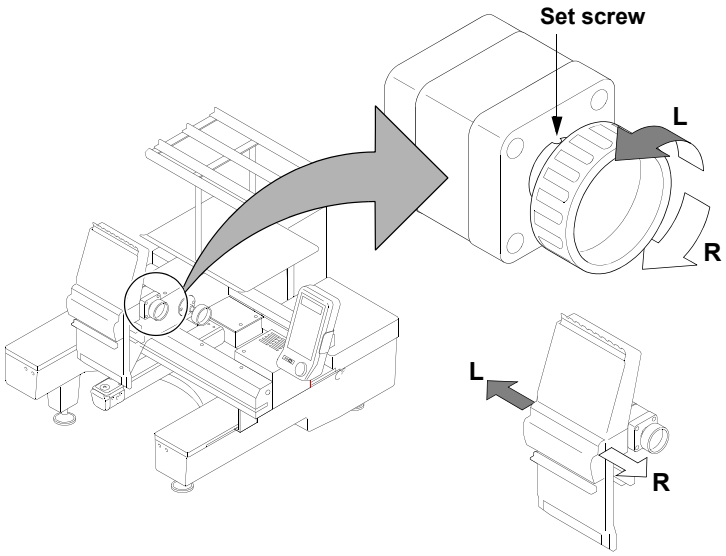
Main shaft handle



Pushing the main shaft handle to turn to the direction indicated by the arrow will cause the main shaft to rotate.

When the main shaft comes off from the fixed position, the machine will not work. Perform adjustment for main shaft stop position.
=> p.11-3

Color change handle



Turning the color change handle to the directions indicated by the arrows (L/R) will cause the needle bar case to slide.

When the needle bar case comes off from the fixed position, the machine will not work. Perform adjustment so that the set screw of the color change handle is positioned directly above or below.

When the set screw is positioned directly above, odd-numbered needle bars will be set at the fixed position. When the set screw is positioned directly below, even-numbered needle bars will be set at the fixed position.

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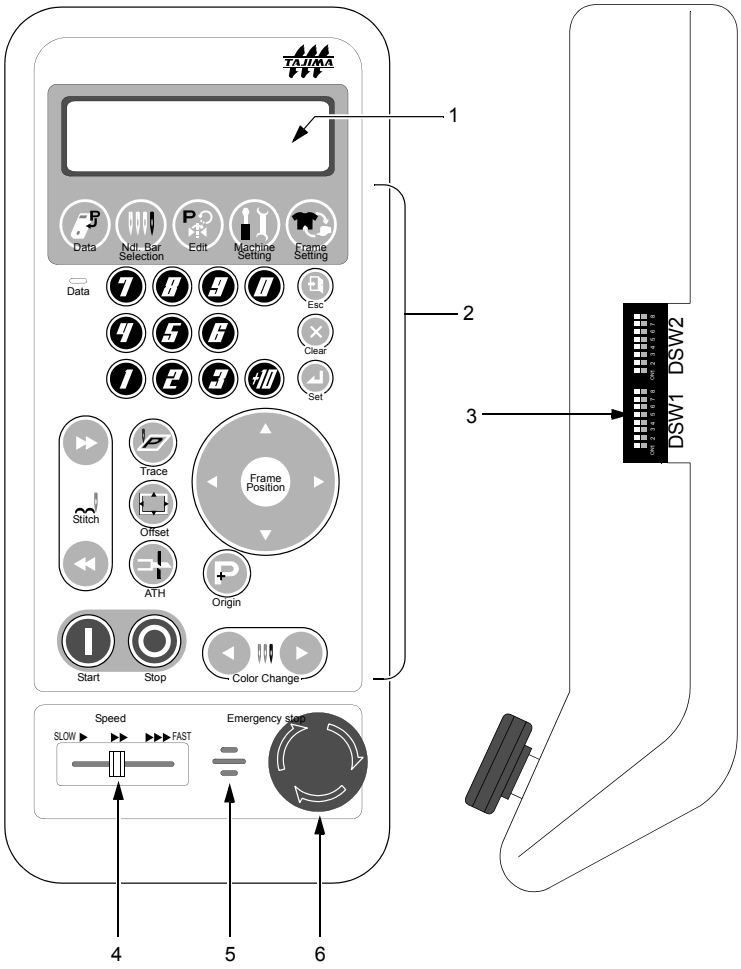
Operation panel box



1. LCD display area
2. Operation panel
3. DIP switch
4. Speed controller
5. Buzzer
6. Emergency stop switch

⚠ Do not push the operation panel with a sharp-pointed object. It could cause breakdown.

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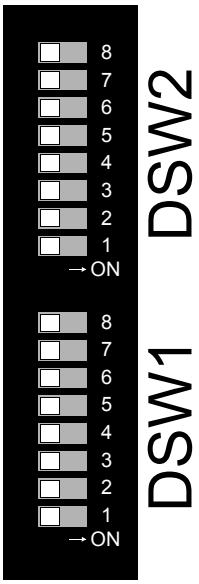
DIP switch



DSW2

No.	Contents	OFF	ON
8	—	* —	—
7	—	* —	—
6	—	* —	—
5	—	* —	—
4	Satin conversion	* Corrects stitch length of 1.5 mm and more	Corrects stitch length of 0.6 mm and more
3	Satin adjustment	* Corrects X and Y at the same time	Corrects X and Y individually
2	Origin of installation	* From floppy disk drive	From personal computer
1	Operation mode 2	* Usual operation mode	Installation mode DSW1-1 ON

DSW1

No.	Contents	OFF	ON
8	Main shaft acceleration	* Standard	Acceleration: High speed
7	—	* —	—
6	—	* —	—
5	Beam sensor	* Non-correspondent	Correspondent
4	Frame moving direction by frame travel keys	* Based on frame	Based on design
3	The number of times of buzzer	* 10 times	Once
2	—	* —	—
1	Operation mode 1	* Usual operation mode	Test mode

📖 After changing DIP switch, turn on the power switch again.

📖 *: Setting at shipment

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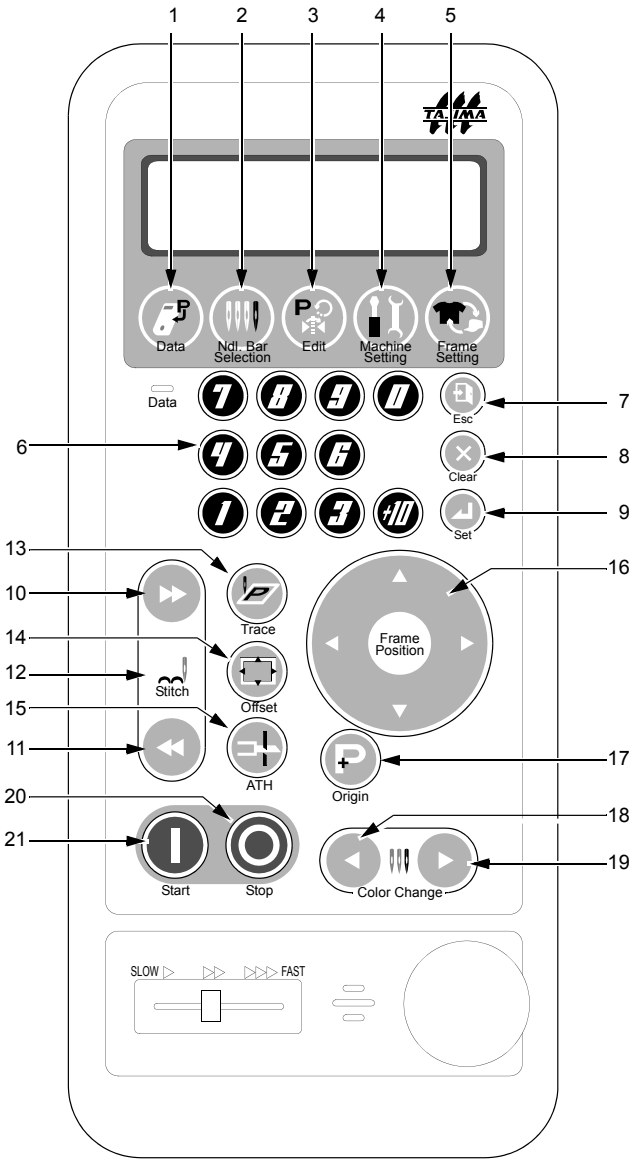
Operation panel



1. Data set menu key
2. Color change setting key
3. Design edit key
4. Machine setting key
5. Frame setting key
6. Numerical key
7. Escape key
8. Clear key
9. Set key
10. Frame forward key
11. Frame back key
12. Feed unit setting key of frame back/ forward
13. Trace key
14. Offset key
15. Thread trimming (ATH) key
16. Frame travel key
    Select key of setting item
17. Origin return key
18. Needle bar case left-slide key
19. Needle bar case right-slide key
20. Stop switch
21. Start switch

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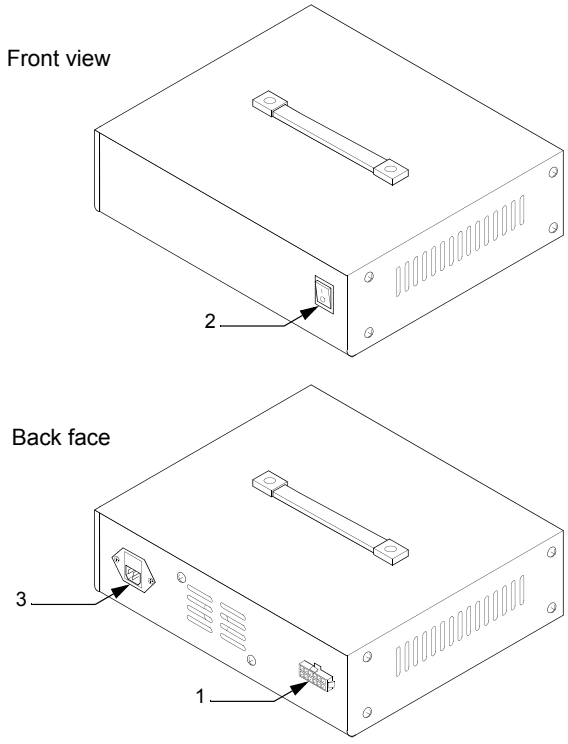
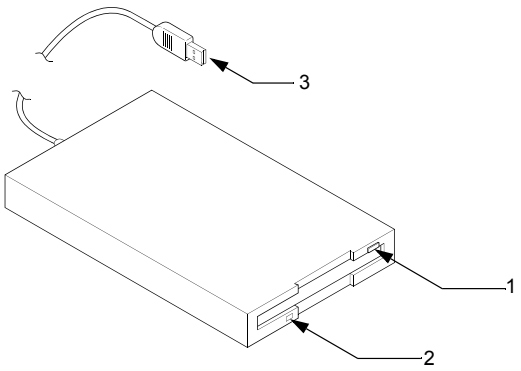
Power supply box



1. DC power supply connector
2. Power switch
3. AC power supply connector

Floppy disk drive



1. Disk ejection button
2. Operation indicator lamp
3. USB connector

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Main specifications

CAUTION

When using the machine deviating from contents of specifications of power supply and power consumption, trouble may occur.

Spec. items	Contents of specifications
R. P. M.	120 - 1,200 rpm
Embroidery space	360 * 500 mm
Input data	600,000 st , up to 99 designs
Weight	80 kg
Outside dimension	W 665 * L 805 * H 796 mm
Electric current •capacity • Hz	1.2A(200V) 225VA 50/60 Hz
Power supply • power consumption	Single-phase AC: 100- 120V, 200 - 240V Max. 220 W

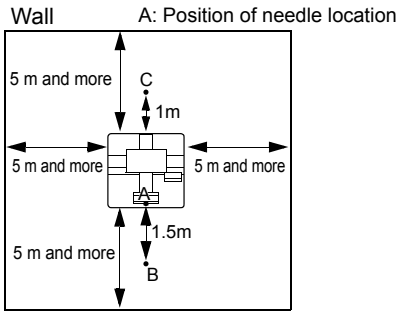
Insulation resistance: 10M ohms and larger (500V megger)

WARNING

Since there is a danger of electric shock due to leak current, be sure to ground the earth cable of the machine. In addition, degree of grounding should be type D or higher (grounding resistance 100 ohms or less).

Ambient noise level

The ambient noise level of the machine is less than 85 dB. Measuring conditions are as follows:



The maximum number of revolutions is limited depending on frame setting or stitch length.

◆Measuring environment (refer to the left illustration)
◆Measuring position
Measured at B and C of which height is 1.6 m from the floor, and higher value is adopted.
◆Operating condition of the machine
Fabric is stretched to a tubular goods frame and the machine is sewing satin stitches of 4 mm length
◆R. P. M.
The maximum number of revolutions of the machine
◆Measuring tool
Conformity to IEC61672-1: 2002 Class 1

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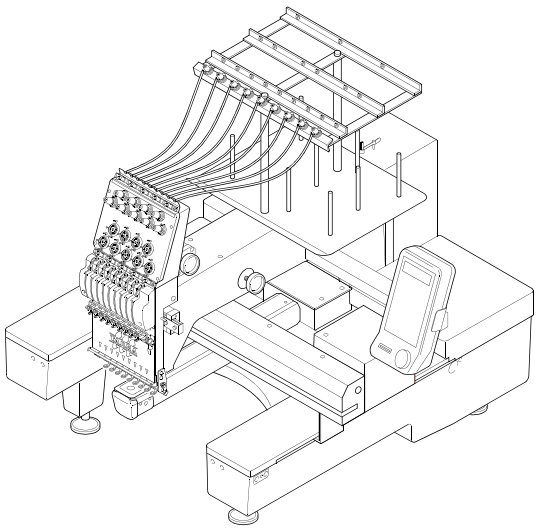
3. Basic operation



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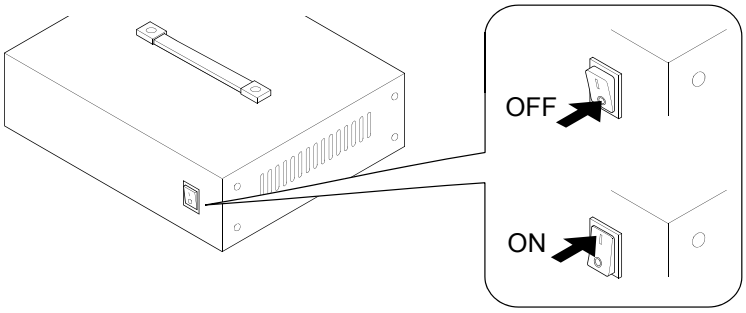
Starting and stopping the machine

1. Power switch

The power switch is located on the power supply box.

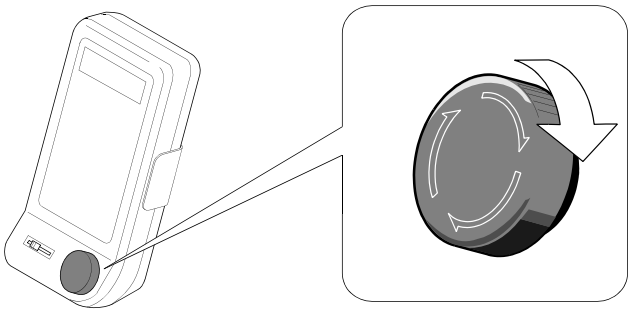


To turn ON the power again, turn "OFF" the power switch first, and after two to three seconds turn it "ON".

2. Emergency stop switch

To stop the machine in an emergency, press the emergency stop switch. Pressing the emergency stop switch will cause the main shaft to stop immediately.

To release the stop lock, turn the switch to the direction indicated by the arrow.



When releasing the emergency stop, do not move the frame.

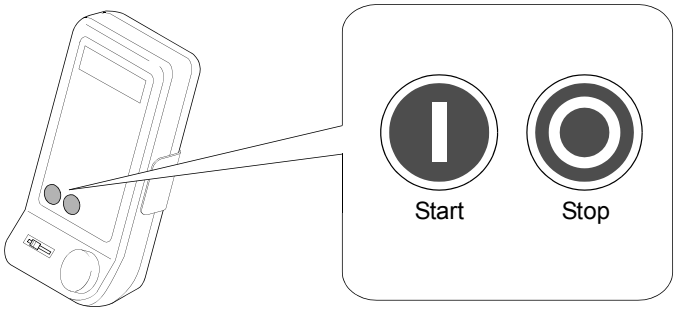
After releasing emergency stop, activate ATH to return the main shaft to the fixed position, and continue the working.
Manual Thread Trimming => p.9-7

3. Start switch and stop switch

The start switch starts the machine and the stop switch stops the machine.

When starting the machine with the start switch kept to be pushed, the machine will start with inching. When the start switch is released, the speed will become normal speed.

Pressing the stop switch will cause the needle bar to stop at the fixed position.



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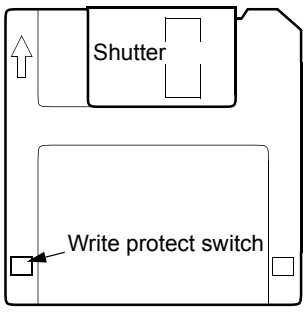
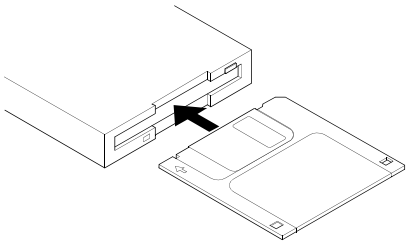
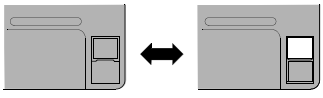
Handling of floppy disk drive

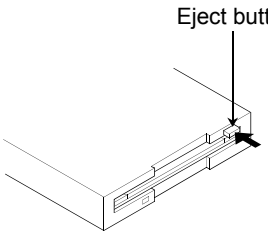
CAUTION

- **Do not put the floppy disk near magnets or a TV set.**
- **Do not expose the floppy disk to excessive heat, humidity, or direct sunlight.**
- **Do not place objects on the floppy disk.**
- **Do not stack floppy disks to store.**
- **Floppy disks do not last eternally. Data must be copied to backup floppy disks for storage.**
- **Do not use damaged or deformed floppy disk, otherwise the floppy disk drive could be damaged.**
- **Clean the floppy disk drive once a month using a cleaning disk. If the head is foul, trouble to reading/writing data could occur.**
- **Do not open the shutter. The disk may be soiled.**
- **To prevent the stored data from being erased, slide the tab of the write protect switch to open the write protect window of a floppy disk (write protect state).**
- **Insert a floppy disk slowly and carefully into the floppy disk drive. If a floppy disk is inserted impetuously, pressing the eject button may fail to eject the floppy disk. This could cause the floppy disk to be damaged and, in addition, the floppy disk drive could be damaged.**
- **Do not try to remove the floppy disk during data reading/ writing. The data in the floppy disk could be destroyed.**









Do not use unformatted floppy disks.

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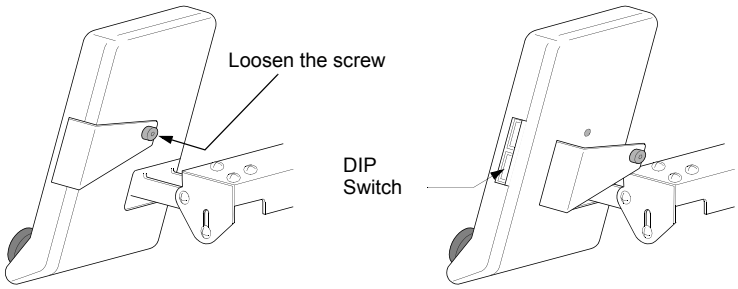
Program installation

When installing from personal computer

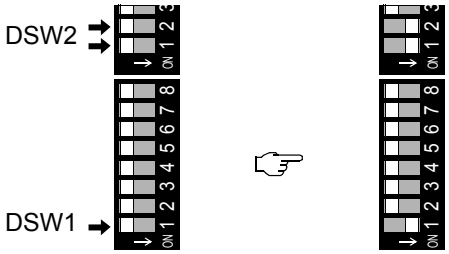
CAUTION

When installing the panel program, design data and machine setting will be cleared.

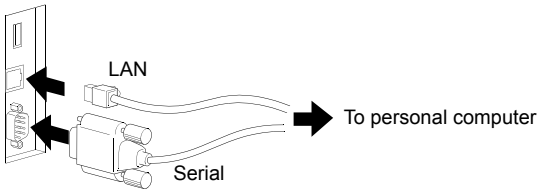
1. Detach the switch cover



2. Turn ON DIP switches (DSW2 1 and 2, DSW1 1).

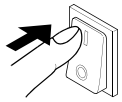


3. Connect the machine with personal computer

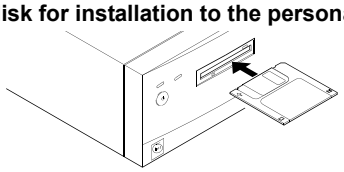


4. Turn ON the power of the personal computer.

5. Turn on the power switch of the machine.



6. Set the floppy disk for installation to the personal computer.



Program installation includes main program, XY program and panel program. They can be installed from personal computer or floppy disk. Perform this operation when setting up the machine or upgrading the software. Perform working from the state where the power switch is turned "OFF".

After turning ON the power switch, the screen will become as shown below.

```
****** INSTALL *****

       FROM PC
```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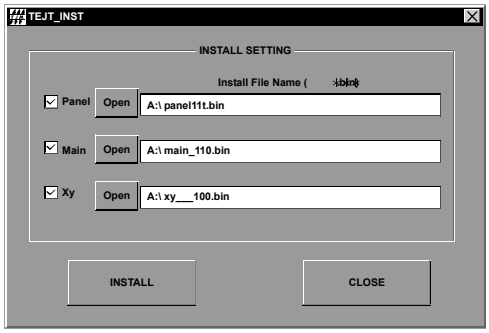
7. **Execute “Tejt_inst.exe”.**

“Tejt_inst.exe” is included in the floppy disk.

8. **Select the file to install.**



Press "Open" to select the file to install.

The program file is also included in the floppy disk.

Panel: Program related to panel
Main: Program related to CPU
Xy: Program related to drive system

9. **Press the** INSTALL **key.**

10. **Press the** START **key to start installation.**

Pressing the install key will display the screen for confirmation.

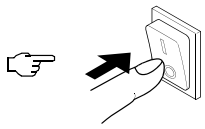
11. **Installing**

```
****** INSTALL *****
                PANEL
     INSTALLING
 [VVV             ]
```

12. **Installation is completed.**

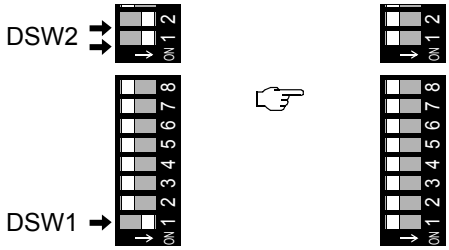
```
****** INSTALL *****

   INSTALL FINISH
         [POWER OFF]
```

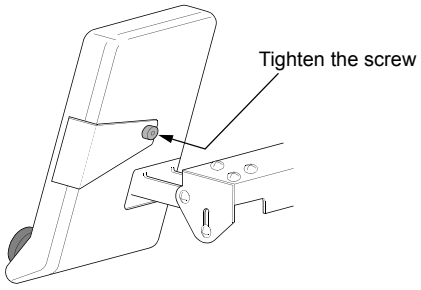


When the installation is completed, turn “OFF” the power switch.

13. **Turn OFF DIP switches (DSW2 1 and 2, DSW1 1).**



14. **Attach the switch cover.**



Machine setting has returned to the initial setting. Change the machine setting according to need.

If design data has been cleared, input it again.

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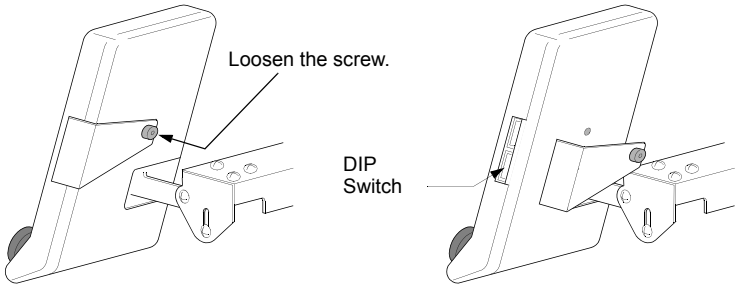
Installation from floppy disk drive

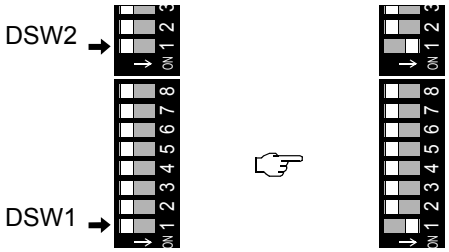
CAUTION

Installation from a floppy disk will clear the design data and machine setting.

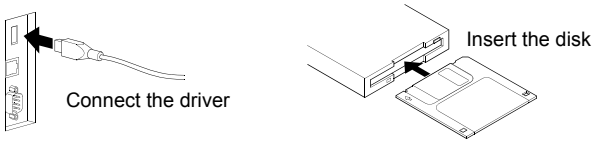
1. Detach the switch cover



2. Turn ON DIP switches (DSW2 1 and DSW1 1).



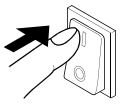
3. Set the program disk.



When the program disk is inserted after turning ON the power switch, the screen as shown below will appear.Press the “SET” key and continue working from operation 5.

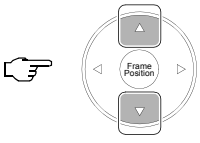
```
****** INSTALL *****

SET KEY →FILE SEARCH
```

4. Turn ON the power switch.



5. Selection of program

```
****** INSTALL *****
1.MAIN      →   -
2.XY        →   -
3.PANEL     →   -
```



Main: Program related to CPU
XY: Program related to drive system
PANEL: Program related to panel

Use the up and down keys to select item to install.

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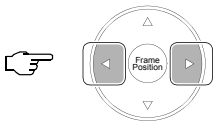
6. **Select “INSTALL”.**

```
****** INSTALL *****
1.MAIN      →   -
2.XY        →   -
3.PANEL     →   -
```



7. **Start installation.**

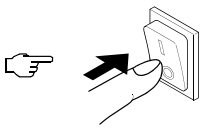
```
****** INSTALL *****
1.MAIN      →   -
2.XY        →   -
3.PANEL     →INSTALL
```

8. **Installation**

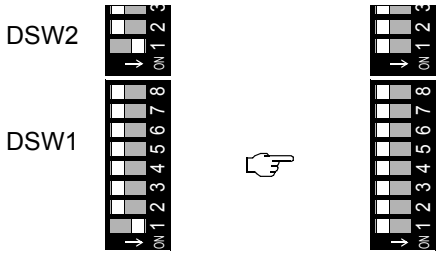
```
****** INSTALL *****
                PANEL
     INSTALLING
 [VVV             ]
```

9. **Installation is completed.**

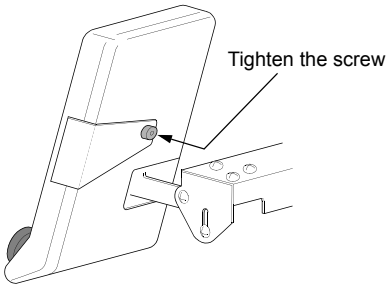
```
****** INSTALL *****

   INSTALL FINISH
         [POWER OFF]
```



10. **Turn OFF the DIP switches DSW2-1 and DSW1-1.**



11. **Attach the switch cover.**



Select “INSTALL” using right and left keys.

When installing plural programs, it is possible to select plural installation items by performing operations 5 and 6.

```
****** INSTALL *****
1.MAIN      →INSTALL
2.XY        →   -
3.PANEL     →INSTALL
```

When the installation is completed, turn “OFF” the power switch.

Machine setting has returned to the initial setting. Change the machine setting according to need.

If design data has been cleared, input it again.

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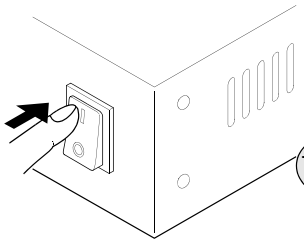
Operation flow up to start of embroidery

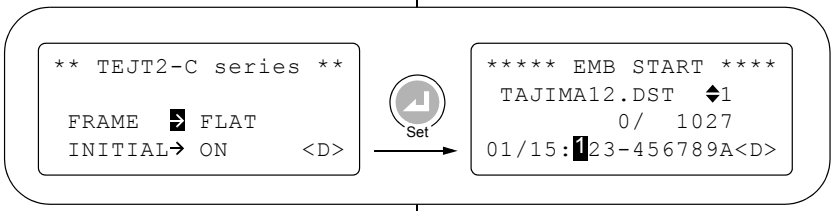
Turn ON the primary power supply.

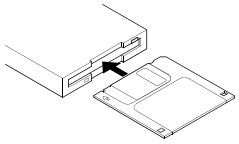
Set the serial cable.

When inputting data from an external device



Turn ON the power switch.





Set the floppy disk.

When inputting data from a floppy disk

Data

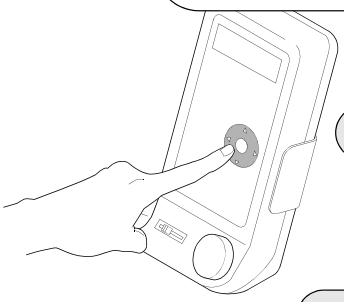
Data input PC (p.4-4)

Data input FD (p.4-2)

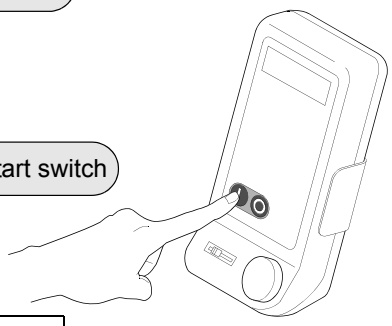
Data select (p.4-8)

Ndl. Bar Selection

Needle bar setting (p.5-2)



Manual frame travel



Turning ON the start switch

Embroidery starts.

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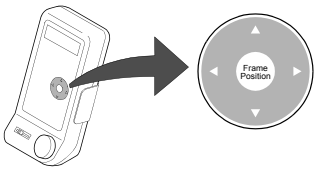
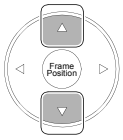
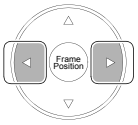
Explanation on the screen

The descriptions below are explanation for LCD screen displayed at each situation.
When it is possible to change setting, the operation button on the panel is displayed.




Select item to set


Select setting value


Select item to set


Select setting value

● Main screen

Power ON	1: Frame mode (flat/cap/cylinder/border/) 2: Origin search (ON: to perform/OFF: not to perform) 3: The needle bar No. the is currently selected
At the start of embroidery	1: Design name 2: FB/FF feed unit (1, 10, 100, C, n-stitches) 3: Current stitch count/Total stitch count in design 4: Current step/Total step count in design: needle bar number of color change sequence
When embroidering	1: The current stitch count/Total stitch count <=> The current stitch count/Maximum number of revolutions (rpm) Set display switching in "SCREEN" of machine setting.
At machine stop	1: Stop by temporary stop Insert "—: Temporary stop" at needle bar setting (The machine stops temporarily before performing automatic color change.)

```
** TEJT2-C series **

 FRAME  → FLAT  1   3
 INITIAL→ ON  2    <D>
```

```
1**** EMB START ****
  TAJIMA12.DST  ↕1  2
4         0/  1027  3
 01/15:123-456789A<D>
```

```
***** EMB START ****
 TAJIMA12.DST  ↕1
    1  66/ 900 rpm
 01/15:123-456789A<D>
```

```
***** EMB START ****
 TAJIMA12.DST  ↕1
       159/  1027
 01/15:123-456789A<D>
```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● Data set menu: Press Data in the state of "EMB START" of MAIN screen.

Data input

1: Data input switch (PC:Personal computer/FD: Floppy) ◀ ▶ + Set

◎ Input from personal computer

a: Label name

b: Memory capacity

◎ FD input

c: Design number→FileName ▲ ▼

d: The stitch count in design

e: Memory capacity

Design

2: Memory design selection Set

a: Memory No./the number of total designs → FileName ▲ ▼

b: The stitch count in design

c: Memory capacity

◎ Design Information

After selecting a design ◀ ▶

Design information 1: X size, right and left positions from the absolute coordinates

Design information 2: Y size, back and forth positions from the absolute coordinates

Design information 3: the number of color changes (total steps), end position of XY

Esc Return to data select screen

Design

3: Memory design deletion Set

◎ Design selection

a: Memory number/total memory capacity → Design name

▲ ▼ + Clear

b: The stitch count of memory design

c: Memory capacity

◎ Confirmation of deletion

a: Y (yes) Set N (no) Esc

```
***** DATA MENU ****
1.INPUT DATA  → PC←1
2.SELECT DATA
3.DELETE DATA
```

```
*** INPUT THRU PC **

NAME  → DATA-01←a
MEMORY→ 56897 ST←b
```

```
c
*** SELECT DATA ***
01/23 → BIRD.TBF
STITCH→  10713 ST←d
MEMORY→ 180876 ST←e
```

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA←2
3.DELETE DATA
```

```
a
*** SELECT DATA ***
01/12 → BIRD.TBF
STITCH→  10713 ST←b
MEMORY→ 180876 ST←c
```

```
*** INFORMATION 1 **
 X SIZE → 72.7 mm
+X AREA → 40.8 mm
-X AREA → 31.9 mm
```

```
*** INFORMATION 1 **
COLOR  →    18
X END  →  -  0.6mm
Y END  →  +  0.1mm
```

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA←3
```

```
a
** DELETE DESIGN **
01/12 → TAJIMA12.DST
STITCH→   1027 ST←b
MEMORY→ 180876 ST←c
```

```
*** DELETE DESIGN **

     DELETE OK ?
   a→[Y=SET,N=ESC]
```


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4: Input mode of memory design (Set)

Input mode

a: Mode selection (single/multi)

📖 Single: It is possible to perform embroidery without storing data in the memory
Multi: Input data to memory

```
***** DATA MENU ****
2.SELECT DATA
3.DELETE DATA
4.MEMORY MODE ◄4
```

```
**** MEMORY MODE ***

 MEMORY → MULTI ◄a
```

5: Memory clear (Set)

Memory clear

📖 Delete all design data inputted to the machine

a: Y (yes) (Set) N (no) (Esc)

```
***** DATA MENU ****
3.DELETE DATA
4.MEMORY MODE
5.INITIAL MEMORY ◄5
```

```
** INITIAL MEMORY **

DELETE ALL DATA OK ?
    a►[Y=SET,N=ESC]
```

● Color change setting: Press (Needle Bar Selection) in the state of "EMB START" of MAIN screen.

Needle bar selection

a: Current step/the number of total steps: color change sequence
(◄ ►) + numerical key

📖 It is possible to perform setting even in the middle of embroidery when the machine stops.

b: The state where needle bar stops temporarily.

📖 Insert "—: Temporary stop" using (Stop). Pressing it once again will cancel the insertion.

```
*** COLOR CHANGE ***
MODE  → AUTO
a        STOP ◄b
04/15:123-456789ABCD
```

● Data setting:Press (P Edit) in the state of "EMB START" of MAIN screen.

Data set

1:Size X (80-120%, 1% increments) (◄ ►)

2: Size Y (80-120%, 1% increments) (◄ ►)

3: Rotation (90° unit) (◄ ►)

4: Mirror reversion (OFF/X: reversion based on X-axis/Y: reversion based on Y-axis) (◄ ►)

5: Repeat (Set)

◎ Repeat setting

a: Repeat direction (Horizontal/Vertical) (◄ ►)

b: The number of repeats of X and Y (1 to 99) (◄ ►)

c: Design interval of X and Y (0 to 255mm) (◄ ►)

```
*** DESIGN EDIT ****
1.SIZE X   →  100% ◄1
2.SIZE Y   →  100% ◄2
3.ROTATE   →    0° ◄3
```

```
*** DESIGN EDIT ****
3.ROTATE   →    0°
4.REVERSE  →  OFF  ◄4
5.REPEAT   →  [SET] ◄5
```

```
** REPEAT SETTING **
PRIOR  → HORIZONTAL ◄a
X TIMES→  1
Y TIMES→  1 ◄b
```

```
** REPEAT SETTING **
Y TIMES→  1
X SPACE→   0 mm
Y SPACE→   0 mm ◄c
```


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● Frame setting: Press 

in the state of "EMB START" of MAIN screen.

Frame setting

1: Manual frame travel speed (1-3)

2: Offset travel (automatic/manual)

3: Origin return after completion of embroidery (automatic/manual)

4: Frame mode (Flat/Cap/Cylinder/Border)

5: Initialize (ON: to perform/OFF: not to perform)

6: Trace mode (Square/Contour)

```
*** FRAME SETTING **
1.MANUAL SPD→1  ➊
2.OFFSET     → AUTO➋
3.ORIGIN RTN→ AUTO➌
```

```
*** FRAME SETTING **
4.FRAME MODE→ FLAT ➍
5.INITIALIZE→ ON ➎
6.TRACE MODE→ CONTOUR➏
```

● Machine setting: Press 

in the state of "EMB START" of MAIN screen.

Machine setting

1: Display (Stitches/Revolutions)

2: Thread breakage sensor (OFF/1-5)

3: Preset halt 

◎ Preset setting

a: Total stitch count (999999 stitches: max.) 

Possible to clear

b: The number of stop stitches (0-999999st) numerical keys

4: Thread trim length (1 to 17)

5: Thread trimming timing (-10 to +10)

6: Jump conversion (0 to 9 stitches)

7: Auto jump (OFF/4.0 to 9.9mm)

8: Frame drive timing (AUTO/250°)

9: The number of inchings at start (2 to 9 times)

```
** MACHINE SETTING *
1.SCREEN    → ST ➊
2.THREAD SNS→ 2 ➋ ➌
3.PRESET HLT→ [SET]
```

```
**** PRESET HLT ****

COUNTER→   1278 ST ⓐ
PRESET →  30000 ST ⓑ
```

```
** MACHINE SETTING *
4.TRIM LENG →1  ➍
5.TRIM TMNG → + 0➎
6.JUMP CONV → 3 ST➏
```

```
** MACHINE SETTING *
7.AUTO JUMP → OF➍
8.A/S TMNG  → AUTO➎
9.INCHING   → 3 ST➏
```


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Machine setting

A: Tie stitching (So: “To perform” at the start/S-: “Not to perform” at the start

Eo: “To perform” at end of embroidery/E-: "Not to perform" at end of embroidery)

B: Satin stitch (-: Without correction, 1 to 5: in increments of 0.1 mm)

C: Boring (OFF/1/2)

Not available to use in 1-needle machine.

```
** MACHINE SETTING
A.TIE SET    → So Eo
B.SATIN ADJ → OFF
C.BORING     → OFF
```

D: Cording (ON/OFF)

Not available to use in 1-needle machine.

E: Sequin

◎ Sequin Setting

a: Up/down of sequin device (U: up/D: down)

When the needle bar with sequin device is not selected, the machine will not work.

b: Feed amount of sequin (FF/4.0 to 9.9 mm)

c: Manual sequin chip feed

When the needle bar with sequin device is not selected, the machine will not work.

Not available to use in 1-needle machine.

```
** MACHINE SETTING *
D.CORDING    → OFF
E.SEQUIN SET→ [SET]
```

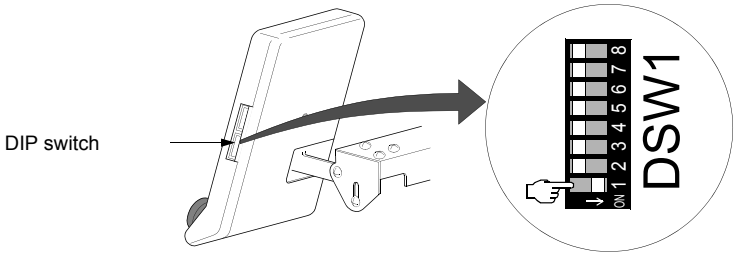
```
****** SEQUIN *****
UP/DOWN   →  U < > D
SEQUIN L →     6.7mm
SEQUIN R →     OFF
```

```
****** SEQUIN ******
SEQUIN L →     6.7mm
SEQUIN R →     OFF
FEED      →     F >
```

Test mode

LCD screen displayed at test mode is explained here.

Detach the cover that is located at the back of the operation panel while turning OFF the power, set No.1 of DIP switch 1 (DSW1) to “ON” and then turn ON the power.




```
** TEJT2-C series **

      TEST MODE
                 <1>
```

Set

● Test mode

Test mode

(1) Main

(2) XY

(3) Panel

(4) Embroidery information

```
***** TEST MODE ****
(1) MAIN      Ver T.3
(2) XY        Ver T.3
(3) PANEL     Ver T.1
```

```
***** TEST MODE ****
(2) XY        Ver T.3
(3) PANEL     Ver T.1
(4) EMB INFORMATION
```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● Main

Main

a:Angle of main shaft

b:ATH setting

c:Needle bar number being used and angle

```
******* MAIN *******
SHAFT → 107.5° o a
TRIM  → o b
NEEDLE→ No.1 c  203
```

● Panel

Panel

(1) Network setting

(2) Maintenance information

(3) Memory test

(4) Buzzer, LED test

(5) Key test

(6) Display language setting

```
******* PANEL ******
(1) NETWORK SETTING
(2) MAINTENANCE
(3) MEMORY INITIAL
```

```
******* PANEL ******
(4) BUZZER,LED TEST
(5) KEY TEST
(6) LANGUAGE →
```

Network setting

◎ COM connection

a: Port (COM/LAN)

b: Data transfer speed (9600/19200/38400)

c: Network (off/1/2)

📖 OFF: No connection

1: Receiving data from PC

2: Selecting data of PC to input

```
** NETWORK SETTING *
PORT         → COM a
 COM SPEED   → 9600 b
 NETWORK     → OFF c
```

◎ LAN connection

a: Port (COM/LAN)

b: TCP/IP (Auto/Manual)

📖 Auto does not have IP address setting.

c: IP address

◎ IP address

d: IP number

e: Subnet mask

f: Gateway

```
** NETWORK SETTING *
PORT         → LAN a b
 TCP/IP      → MANUAL
 IP ADDRESS → [SET] c
```

```
**** IP ADDRESS ****
IP  →192.168. d 1. 77
MASK→  0.  0.  0. e 0
GATE→  0.  0.  0. f 0
```

Maintenance

Maintenance information

```
**** MAINTENANCE ***

     NNN NNN NNN
```

Memory test

Memory clear status

📖 Clearing will result in English display.

```
*** INITIALIZING ***

     1600KB OK
```


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Buzzer LED test

Setting status of DIP switch 1

Setting status of DIP switch 2

📖 Screen and button lamp will blink, and buzzer will sound.

```
**** BUZZER,LED ****

DIP SW1    → 11111110
DIP SW2    → 11111111
```

Key test

📖 "o" will be displayed/not displayed every time the button is pressed since the function corresponds to each button of the operation panel.

```
***** KEY TEST *****
 ooooo oo   o  ooooo
 ooo o oo o o     oo
 ooooo oo   o  oo oo
```

Language

a: Switching of display language (Japanese/English)

```
***** LANGUAGE *****

       ENGLISH  ◄a
```

● Embroidery information

Embroidery information

a: The number of pieces

b: The stitch count

c: Error

```
** EMB INFORMATION *
PIECE     →       a► 0
STITCH    →       b► 0
ERROR     →[SET]  ◄c
```

Error information

1. Thread breakage	8. 232C communication
2. Main shaft motor	9. 232C connection
3. Y-axis motor	10. Internal communication
4. X-axis motor	11. Internal connection
5. Needle case position	12. Data
6. Thread trim	13. RAM
7. Temperature	14. Limit

```
******* ERRORS *****
[ 1] THREAD BK→     0
[ 2] M MOTOR  →     0
[ 3] Y MOTOR  →     0
```


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Inspections before starting operation

Before embroidering, execute inspections of the following items.

CAUTION

When performing inspection before starting operation, be sure to turn OFF the power switch.
If performing inspection with the power turned ON, it may cause injury.

Inspecting item	Status	Corrective measures
Covers	Come off	Attach
Thread	Come off	Set
	Broken	
Needle	Bent	Replace
	Broken	
Rail on rotary hook	Proper quantity of oil is not adhered	Supply oil

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4. DATA SET MENU

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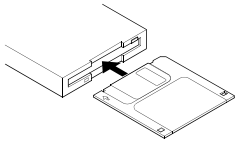
Data input (FD)

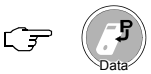
Input design data from a floppy disk to the machine. The data of input design will be set.

1. Insert the floppy disk.



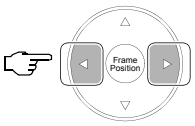
2. Switch to “DATA MENU”.

```
***** EMB START ****
 TAJIMA12.DST  ▲▼1
         0/  1027
01/15:123-456789A<D>
```



3. Select “FD”.

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA
```

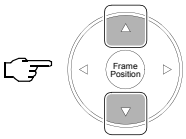


4. Reading of floppy disk

```
***** DATA MENU ****
1.INPUT DATA  → FD
2.SELECT DATA
3.DELETE DATA
```

5. Selection of design data

```
**** SELECT DATA ***
01/23 → BIRD.TBF
STITCH→  10713 ST
MEMORY→ 180876 ST
```



6. Input

```
**** SELECT DATA ***
09/23 → BELL.DST
STITCH→  2451 ST
MEMORY→ 180876 ST
```

7. Set needle bar steps.

```
*** COLOR CHANGE ***
MODE  → AUTO

01/04:
```

Data set means to make design data possible to be embroidered.

The black square that blinks on the screen is the item to be selected.

```
1.INPUT DATA  → PC
```

When the machine is reading design data of a floppy disk, the screen as shown in the illustration below will appear.

```
   FILE SEARCHING
```

When design data that exceeds memory capacity is input, error code “2BA” will be displayed.
2BA=> p.11-2

When inputting “*.TBF” data, data set will be performed after pressing [SET].

```
***** EMB START ****
 BELL.TBF      ▲▼1
         0/  2451
01/04:A6B3        <D>
```

When there is no “color change” setting in the input design data, set needle bar number(s) to needle bar step(s).
Input of needle bar step=> p.5-2

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8. **Set**

```
*** COLOR CHANGE ***
MODE   → AUTO

01/04:BC25
```

9. **Completion**

```
***** EMB START ****
 BELL.DST       ▲▼1
          0/  2451
01/04:BC25         <D>
```

The input data will be set.

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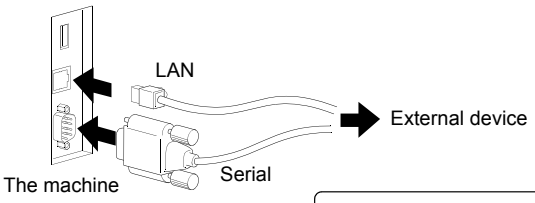
Data input (PC 1)

The following explains how to receive design data sending from an external device that is connected with network to the machine. The input data of design will be set.

1. Connect an external device and the machine using the cable.



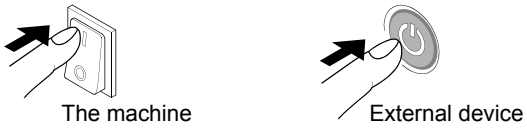

```
** NETWORK SETTING *
PORT          → COM
 COM SPEED    → 9600
NETWORK       → 1
```

📖 When connecting the cable, turn OFF the power of the machine and external device.

📖 When performing connection with an external device, the exclusive cable is necessary.

📖 Set Panel>Network setting>Network of Test mode to "1".
◎ COM connection => p.3-14

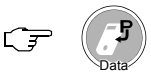
2. Turn on the power.



📖 When turning ON the power of the machine, turn also on the power of the external device.

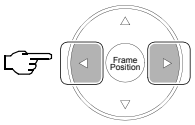
3. Switch to "DATA MENU".

```
***** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123-456789A<D>
```



4. Select "PC".

```
***** DATA MENU ****
1.INPUT DATA  → FD
2.SELECT DATA
3.DELETE DATA
```



5. Receive data from the external device

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA
```

📖 Press "SET" to make ready for receiving data.

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6. **Transmit design data from the external device.**

7. **Set**

```
***** PC INPUT ****

NAME   → DATA-01
MEMORY→ 56897 ST
```

8. **Completion of data set**

```
**** EMB START ****
 DATA-01        ▲▼1
          0/ 56897
01/12:123456789AB<D>
```

📖 "Data" lamp will blink during data transfer.

📖 When reading "DST", the message will be displayed as shown below after inputting design data.

```
*** COLOR CHANGE ***
MODE   → AUTO

01/12:
```

Refer to color change setting.
Input of needle bar step=> p.5-2

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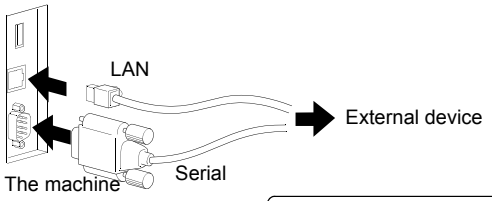
Data input (PC 2)

The following explains how to input design data of an external device that is connected with network while selecting it from the machine. The input data of design will be set.

1. Connect an external device with the machine using the serial cable.




```
** NETWORK SETTING *
PORT          → COM
 COM SPEED    → 9600
 NETWORK      → 2
```

When connecting the cable, turn OFF the power of the machine and external device.

When performing connection with an external device, the exclusive cable is necessary.

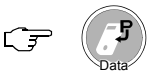
Set Panel>Network setting>Network of Test mode to “2”.
COM connection => p.3-14

2. Turn on the power.

When turning ON the power of the machine, turn also on the power of the external device to start DG/ML.

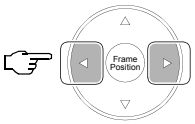
3. Switch to “DATA MENU”.

```
***** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123-456789A<D>
```



4. Select “PC”.

```
***** DATA MENU ****
1.INPUT DATA  → FD
2.SELECT DATA
3.DELETE DATA
```



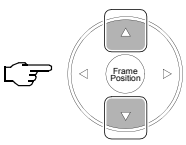
5. Searching of external device data

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA
```

Pressing “SET” will enable you to see design data registered in the external device DG/ML from the machine.

6. Select design data of the external device.

```
**** SELECT DATA ***
  1   → SOCKS.DST
STITCH→   3119 ST
MEMORY→ 257536 ST
```



When design data that exceeds memory capacity is input, error code “2BA” will be displayed.
2BA=> p.11-2

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7. **Set**

```
**** SELECT DATA ***
  3    → D-01.DST
STITCH→    1932 ST
MEMORY→ 257536 ST
```

8. **Completion of data set**

```
**** EMB START ****
 D-01            ▲▼1
          0/  1932
01/05:12345       <D>
```

📖 "Data" lamp will blink during data transfer.

📖 When reading "DST", the message will be displayed as shown below after inputting design data.

```
*** COLOR CHANGE ***
MODE   → AUTO

01/05:
```

Refer to color change setting.
Input of needle bar step=> p.5-2

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Select data

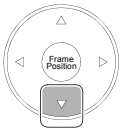
Set design data in the memory of the machine.

1. **Switch to “DATA MENU”.**

```
***** EMB START ****
 TAJIMA12.DST  ◆1
          0/  1027
01/15:123-456789A<D>
```

2. **Select “SELECT DATA”.**

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA
```

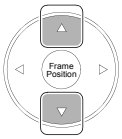


3. **Set**

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA
```

4. **Selection of design data**

```
**** SELECT DATA ***
01/12 → BIRD.TBF
STITCH→  10713 ST
MEMORY→ 180876 ST
```



5. **Data set**

```
**** SELECT DATA ***
07/12 → FLOWER.TBF
STITCH→   3972 ST
MEMORY→ 180876 ST
```

6. **Completion**

```
**** EMB START ****
 FLOWER.TBF    ◆1
          0/  3972
01/05:159AB      <D>
```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Delete data

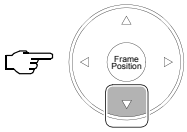
Select design data in the memory of the machine to delete.

1. Switch to "DATA MENU"

```
***** EMB START ****
 TAJIMA12.DST  ▲1
         0/  1027
01/15:123-456789A<D>
```

2. Select “DELETE DATA”.

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA
```

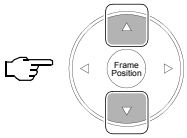


3. Set

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA
```

4. Selection of design data

```
*** DELETE DESIGN **
07/12 → FLOWER.TBF
STITCH→   3972 ST
MEMORY→ 180876 ST
```



5. Deletion

```
*** DELETE DESIGN **
07/12 → FLOWER.TBF
STITCH→   3972 ST
MEMORY→ 180876 ST
```

6. Confirm

```
*** DELETE DESIGN **

     DELETE OK ?
       [Y=SET,N=ESC]
```

7. Completion

```
*** DELETE DESIGN **
07/11   DOG.DST
STITCH→   3972 ST
MEMORY→ 180876 ST
```

When it is not possible to input design data into the memory, delete unnecessary design data to assure memory capacity.

It is possible to perform deletion continuously after deleting data.

To return to “EMB START SCREEN”, press “ESC” twice.

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Memory mode

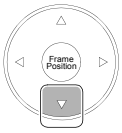
This setting decides whether storing the design data into the memory or not when inputting design data.

1. **Switch to “DATA MENU”.**

```
**** EMB START ****
 TAJIMA12.DST  ▲1
          0/  1027
01/15:123-456789A<D>
```

2. **Select “MEMORY MODE”.**

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA
```



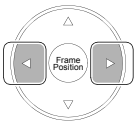
3. **Set**

```
***** DATA MENU ****
2.SELECT DATA
3.DELETE DATA
4.MEMORY MODE
```

4. **Selection of mode**

```
**** MEMORY MODE ***

 MEMORY → MULTI
```



MULTI: To store input design to the memory
SINGLE: To store one design data to the memory and overwrite by new design data

5. **Set**

```
**** MEMORY MODE ***

 MEMORY → SINGLE
```

When setting the memory mode, data setting will be canceled.

6. **Completion**

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA
```

When you set “SINGLE”, input data from FD/PC.

To return to “EMB START SCREEN”, press “ESC”.

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Initial memory

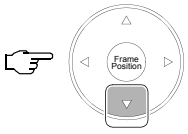
This setting erases all design data stored in the memory of the machine.

1. Switch to “DATA MENU”.

```
**** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123-456789A<D>
```

2. Select “INITIAL MEMORY”.

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA
```



3. Clear

```
***** DATA MENU ****
3.DELETE DATA
4.MEMORY MODE
5.INITIAL MEMORY
```

4. Confirm

```
** INITIAL MEMORY **

DELETE ALL DATA OK ?
       [Y=SET,N=ESC]
```

5. Completion

```
***** DATA MENU ****
1.INPUT DATA  → PC
2.SELECT DATA
3.DELETE DATA
```

🕮 during initializing memory, the message will be displayed as shown below.

```
*** INITIALIZING
```

🕮 Since all design data has been erased, input data here.
To return to “EMB START SCREEN” without data input, press "ESC".
When data set is not performed, the display as shown in the illustration below will appear.

```
**** EMB START ****
 .              ◆1
        0/      0
01/00:                (D)
```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5. COLOR CHANGE

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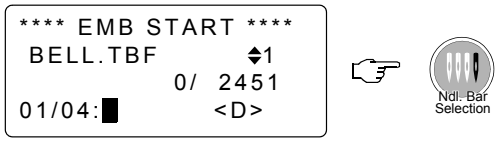
Input of needle bar step

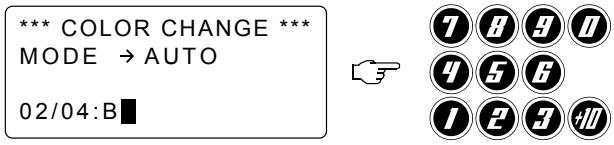
Set needle bar number to needle bar step.

1. Switch to “COLOR CHANGE”.



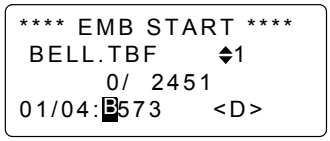
2. Input needle bar number. (Example: Needle bar No.11)

3. Input needle bar number to the next step.



4. Set the needle bar setting

5. Completion



To set other needle bars continuously, repeat operations 2 and 3 and then press "SET".

Needle bar	1st needle	...	10th needle	11th needle
Operation	1		10 + 0	10 + 1
Display	1	...	A	B

Set needle bar numbers to all steps.
All needle bar steps are displayed as “1” in 1-needle machine.

If the number of needle bar number settings is less than the number of color change steps, the remaining steps will be automatically complemented.

Example: When up to two steps of needle bar numbers are set in case of five steps

Needle bar step	1	2	3	4	5	6	7
Needle bar number	2	5	2	5	2	5	2

: Complemented needle bar number

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Needle bar setting (Change of step)

Change needle bar number of needle bar step.

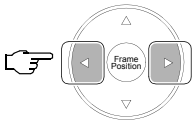
1. Switch to “COLOR CHANGE”.

```
**** EMB START ****
 TAJIMA12.DST  ⬍1
       0/  1027
01/15:123456789AB<D>
```

2. Select the needle bar step

```
*** COLOR CHANGE ***
MODE  → AUTO

01/15:123456789ABCDE
```



3. Input needle bar number. (Example: Needle barNo.11)

```
*** COLOR CHANGE ***
MODE  → AUTO

02/15:123456789ABCDE
```

4. Setting

```
*** COLOR CHANGE ***
MODE  → AUTO

03/15:1B3456789ABCDE
```

5. Completion

```
**** EMB START ****
 TAJIMA12.DST  ⬍1
       0/  1027
01/15:1B3456789AB<D>
```

Step of the same color

```
*** COLOR CHANGE ***
MODE  → AUTO

03/15:122456789AB<2>
```

```
*** COLOR CHANGE ***
MODE  → AUTO

03/15:12-2456789A<2>
```

To set other needle bars continuously, repeat operations 2 and 3 and then press “SET”.

Needle bar	1st needle	...	10th needle	11th needle
Operation				
Display	1	...	A	B

When the next step is the same needle bar, the machine will stop and start automatically. At this moment, ATH will not work.

If a temporary stop is inserted, the machine will not start automatically. Press the START button to start the machine.

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Setting for temporary stop

This setting will cause embroidery to stop temporarily when color change is performed.

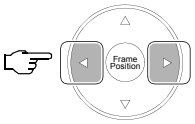
1. Switch to “COLOR CHANGE”.

```
**** EMB START ****
 TAJIMA12.DST  ⬍1
          0/  1027
01/15:123456789AB<D>
```

2. Select the needle bar step

```
*** COLOR CHANGE ***
MODE  → AUTO

01/15:123456789ABCDE
```



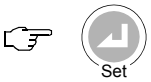
3. Select needle bar. (Example: Stop before needle bar step 4)

```
*** COLOR CHANGE ***
MODE  → AUTO

04/15:1234456789ABCDE
```

4. Setting

```
*** COLOR CHANGE ***
MODE  → AUTO
      STOP
04/15:123-456789ABCD
```



5. Completion

```
**** EMB START ****
 TAJIMA12.DST  ⬍1
       0/  1027
01/15:123-456789A<D>
```

To set other needle bar steps continuously, repeat operations 2 and 3 and then press “SET”.

When setting temporary stop, “—” will be inserted just before the set step.

When performing embroidery with automatic setting for frame setting “Offset”, the machine will stop temporarily after frame movement to the offset position before its performing color change.

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6. DESIGN EDIT

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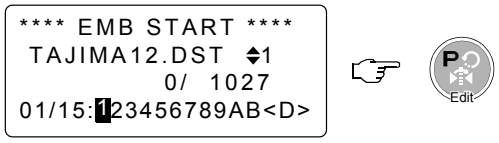
Size

This setting enlarges/reduces design of which data is set.

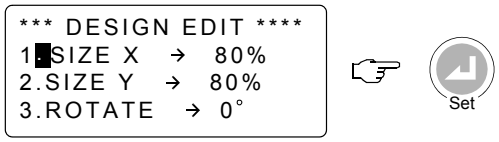
1. **Switch to “DESIGN EDIT”.**



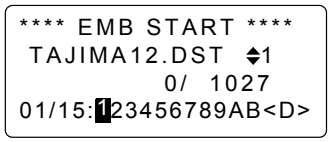
2. **Change X size.**

When changing Y size

3. **Set**



4. **Completion**



For details of size, refer to outline of functions.
Size=> p.10-3

Select scale ratio (80 to 120%). When X size is changed, Y size will be changed in the same value.

Change of Y size changes Y size only.

To perform design edit continuously, perform operations of “ROTATE, MIRROR, REPEAT” without pressing “SET”.

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Rotate

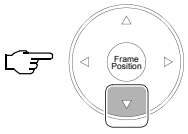
This setting rotates design of which data is set.

1. Switch to “DESIGN EDIT”.

```
**** EMB START ****
 TAJIMA12.DST  ▲▼1
          0/  1027
01/15:123456789AB<D>
```

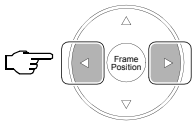
2. Select rotation.

```
*** DESIGN EDIT ****
1.SIZE X   → 100%
2.SIZE Y   → 100%
3.ROTATE   → 0°
```



3. Select angle

```
*** DESIGN EDIT ****
1.SIZE X   → 100%
2.SIZE Y   → 100%
3.ROTATE   → 0°
```



4. Set

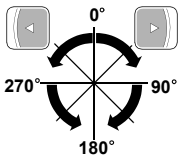
```
*** DESIGN EDIT ****
1.SIZE X   → 100%
2.SIZE Y   → 100%
3.ROTATE   → 180°
```

5. Completion

```
**** EMB START ****
 TAJIMA12.DST  ▲▼1
          0/  1027
01/15:123456789AB<D>
```

For details of rotation, refer to outline of functions.
Rotate=> p.10-2

It rotates in increments of 45°.



To perform design edit continuously, perform operations of “SIZE, MIRROR, REPEAT” without pressing “SET”.

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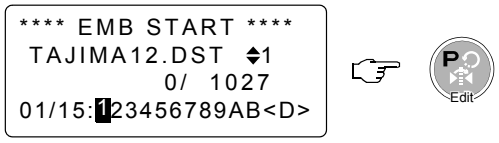
Mirror

This setting reverses design of which data is set like mirror image.

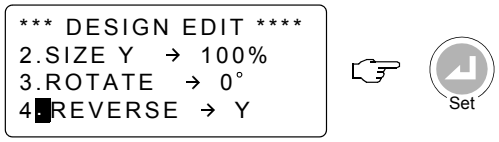
1. Switch to “DESIGN EDIT”.



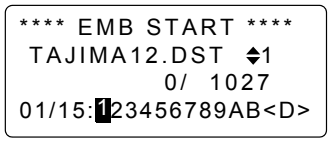
2. Select reverse.

3. Select reversing direction.

4. Set

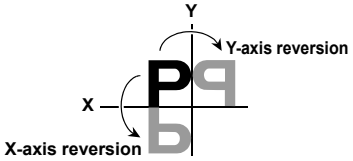


5. Completion



For details of mirror, refer to outline of functions.
Mirror=> p.10-2

Reversion is performed on X/Y-axis.



To perform design edit continuously, perform operations of “SIZE, ROTATE, REPEAT” without pressing “SET”.

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Repeat

This setting repeatedly arranges design of which data is set.

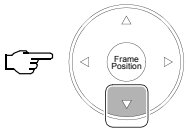
For details of repeat, refer to outline of functions.
Repeat=> p.10-3

1. **Switch to “DESIGN EDIT”.**

```
**** EMB START ****
 TAJIMA12.DST ◆1
          0/ 1027
01/15:123456789AB<D>
```

2. **Select repeat**

```
*** DESIGN EDIT ****
1.SIZE X  → 100%
2.SIZE Y  → 100%
3.ROTATE  → 0°
```

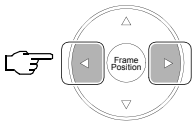


3. **Set**

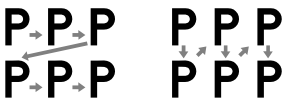
```
*** DESIGN EDIT ****
3.ROTATE  → 0°
4.REVERSE → OFF
5.REPEAT  → [SET]
```

4. **Setting for direction**

```
** REPEAT SETTING **
PRIOR →
HORIZONTAL
X TIMES→ 1
```



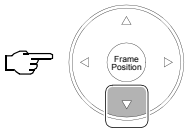
Direction: Horizontal/Vertical



Direction: horizontal Direction: vertical

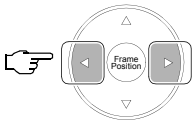
5. **Selection of the number of times**

```
** REPEAT SETTING **
PRIOR → VERTICAL
X TIMES→ 1
Y TIMES→ 1
```

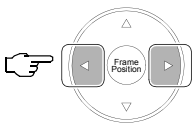


6. **Setting for the number of repeats**

```
** REPEAT SETTING **
PRIOR → VERTICAL
X TIMES→ 1
Y TIMES→ 1
```



```
** REPEAT SETTING **
PRIOR → VERTICAL
X TIMES→ 3
Y TIMES→ 1
```



The number of times: 01 to 99

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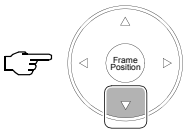
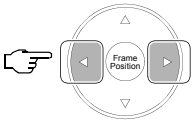
7. Selection of space

```
** REPEAT SETTING **
PRIOR  → VERTICAL
X TIMES→  3
Y TIMES→  2
```

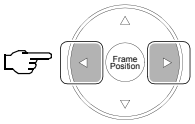


8. Setting for space

```
** REPEAT SETTING **
X TIMES→  3
Y TIMES→  2
X SPACE→  0 mm
```

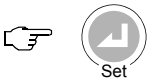


```
** REPEAT SETTING **
Y TIMES→  2
X SPACE→  60 mm
Y SPACE→  0 mm
```



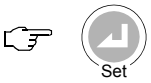
9. Set

```
** REPEAT SETTING **
Y TIMES→  2
X SPACE→  60 mm
Y SPACE→  15 mm
```



10. Set

```
*** DESIGN EDIT ****
1.ROTATE   → 0°
2.REVERSE  → OFF
3.REPEAT   → [SET]
```

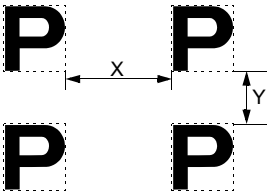


11. Completion

```
**** EMB START ****
 TAJIMA12.DST  ⬍1
          0/  1027
01/15:123456789AB<D>
```

Space: 0 to 255 mm

Space means an interval between a design and the next design.



To perform design edit continuously, perform operations of “SIZE, ROTATE, MIRROR” without pressing “SET”.

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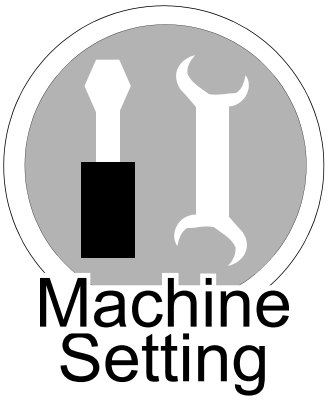
7. MACHINE SETTING



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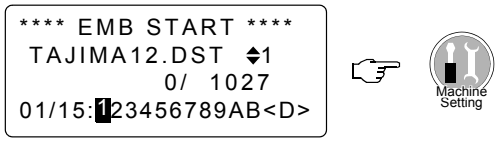
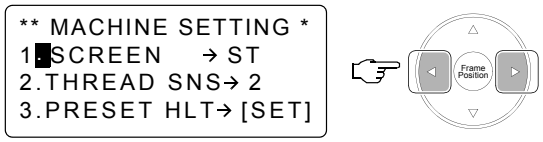
Screen

This setting displays the stitch count/revolutions during embroidering.

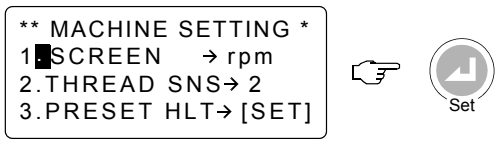
1. Switch to "MACHINE SETTING".



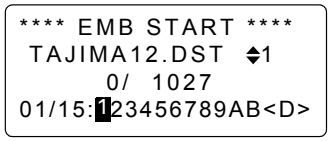
2. Select display mode



3. Set



4. Completion



Screen: ST/rpm

Total stitch count of design of which data is set

The number of revolutions (rpm) during running of the machine

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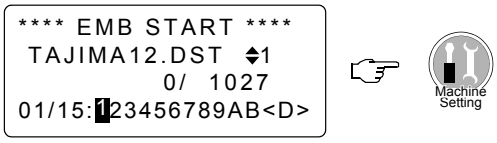
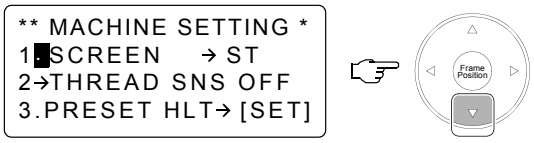
Thread breakage sensor

This is the setting for thread breakage detection.

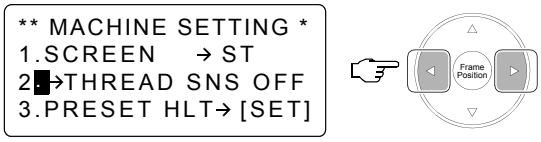
1. Switch to "MACHINE SETTING".



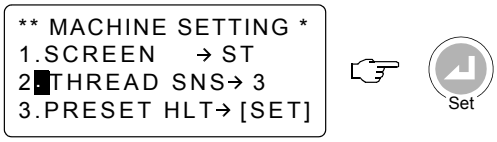
2. Select item to set.



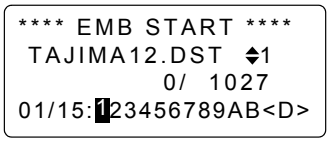
3. Select setting value



4. Set



5. Completion



Setting value: Off, 1, 2, 3, 4, 5
OFF: Not to detect thread breakage
1 to 5: Detects thread breakage by the number of set stitches.

※ The smaller the value, the higher the sensibility

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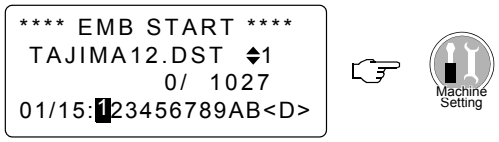
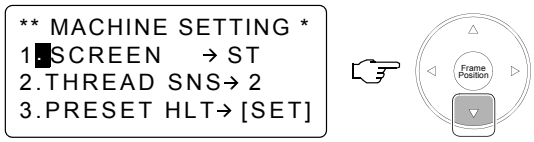
Preset halt

This setting makes the machine halt automatically when the stitch count reaches the set value.

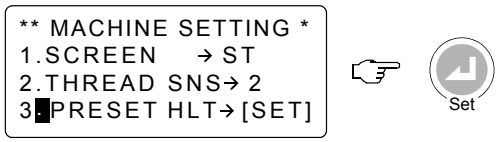
1. Switch to "MACHINE SETTING".



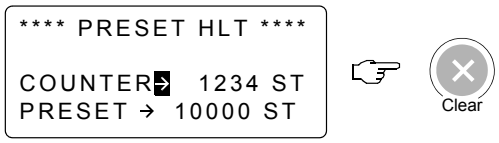
2. Select item to set.



3. Set



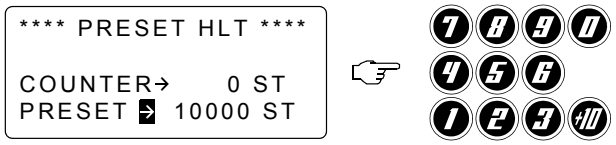
4. Resetting of counter



To clear the setting value of preset halt, select "PRESET" in the same manner and press "CLEAR".

5. Select item to set

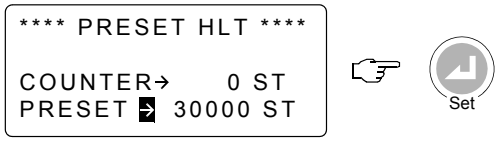
6. Input setting value



To correct the value, press "CLEAR" to call "0".

Setting to "0" will not cause the machine to perform preset halt.

7. Set



When the machine is topped by preset halt, the warning buzzer will sound and the message as shown below will be displayed.

```
***** EMB PAUSE ****

PRESET HLT
(1D2)
```

To cancel, press the stop switch.

JZ05

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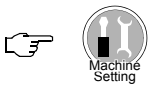
Trim length

Set the length of remaining thread when thread trimming is performed.

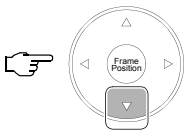
1. Switch to "MACHINE SETTING".

```
**** EMB START ****
 TAJIMA12.DST  ▲▼1
          0/  1027
01/15:123456789AB<D>
```



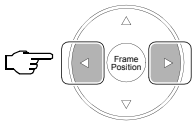
2. Switching of item to be displayed

```
** MACHINE SETTING *
1.SCREEN    → ST
2.THREAD SNS→ 2
3.PRESET HLT→ [SET]
```



3. Selection of the setting value

```
** MACHINE SETTING *
2.THREAD SNS→ 2
3.PRESET HLT→ [SET]
4.TRIM LENG →1
```



Setting value: 1 to 17

Short 1 ← → Long 17

4. Set

```
** MACHINE SETTING *
2.THREAD SNS→ 2
3.PRESET HLT→ [SET]
4.TRIM LENG → 8
```

5. Completion

```
**** EMB START ****
 TAJIMA12.DST  ▲▼1
          0/  1027
01/15:123456789AB<D>
```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Trim timing

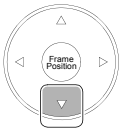
Set timing to start thread trimming.

1. Switch to “MACHINE SETTING”.

```
**** EMB START ****
 TAJIMA12.DST  ⬍1
          0/  1027
01/15:123456789AB<D>
```

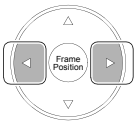
2. Switching of item to be displayed

```
** MACHINE SETTING *
1.SCREEN    → ST
2.THREAD SNS→ 2
3.PRESET HLT→ [SET]
```



3. Selection of the setting value

```
** MACHINE SETTING *
3.PRESET HLT→ [SET]
4.TRIM LENG →1
5.TRIM TMNG → + 0
```



Setting value:-10...-1,0,+1...+10

Early ← 0 → Late
-10 ← 0 → +10

Perform adjustment according to thread trimming condition and thread to use.

4. Set

```
** MACHINE SETTING *
3.PRESET HLT→ [SET]
4.TRIM LENG →1
5.TRIM TMNG → + 2
```

5. Completion

```
**** EMB START ****
 TAJIMA12.DST  ⬍1
          0/  1027
01/15:123456789AB<D>
```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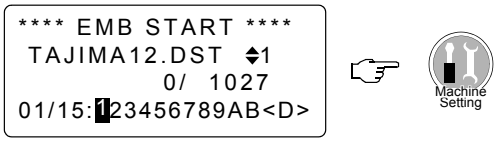
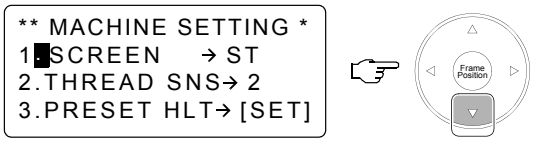
Jump conversion

This setting converts consecutive jump stitches to frame stepping.

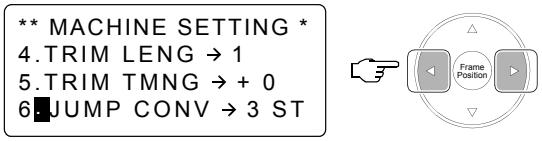
1. Switch to "MACHINE SETTING".



2. Switching of item to be displayed

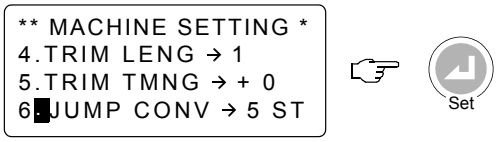


3. Selection of the setting value



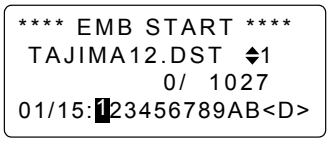
Setting value:0,1,2, ... 8,9
0: Not to convert

4. Set



When the number of jump codes reaches the setting value, the jump codes will be converted to frame stepping.

5. Completion



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Automatic jump

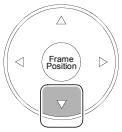
This setting converts longer stitches than the setting value to automatic jump.

1. Switch to "MACHINE SETTING".

```
**** EMB START ****
 TAJIMA12.DST  ◆1
          0/  1027
01/15:123456789AB<D>
```

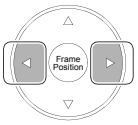
2. Switching of item to be displayed

```
** MACHINE SETTING *
1.SCREEN     → ST
2.THREAD SNS→ 2
3.PRESET HLT→ [SET]
```



3. Selection of the setting value

```
** MACHINE SETTING *
5.TRIM TMNG → + 0
6.JUMP CONV → 3 ST
7.AUTO JUMP → OFF
```



4. Set

```
** MACHINE SETTING *
5.TRIM TMNG → + 0
6.JUMP CONV → 3 ST
7.AUTO JUMP → 5.0
```

5. Completion

```
**** EMB START ****
 TAJIMA12.DST  ◆1
          0/  1027
01/15:123456789AB<D>
```

Setting value: Off,4.0, ... 9.9(mm)
OFF: Not to convert

Keeping on pressing either right or left key will change value quickly.

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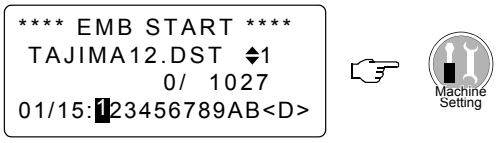
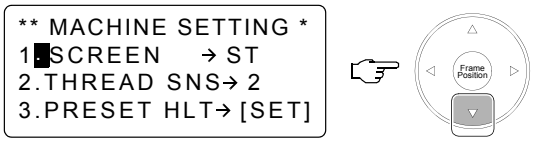
A/S timing

This setting sets timing when the embroidery frame starts to move.

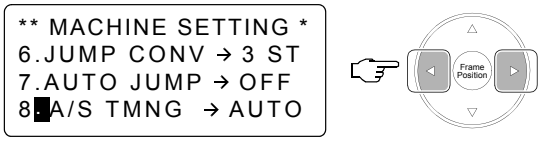
1. Switch to "MACHINE SETTING"



2. Switching of item to be displayed



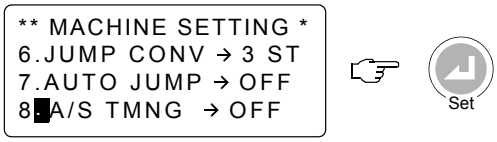
3. Selection of the setting value



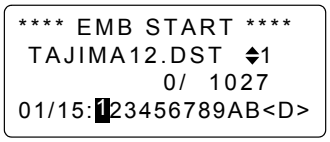
Setting value: Auto, 250°
AUTO: Automatic adjustment
250°: Frame drive with the same timing

When setting to 250°, good thread tightening will be obtained in general, but the machine will be burdened.

4. Set



5. Completion



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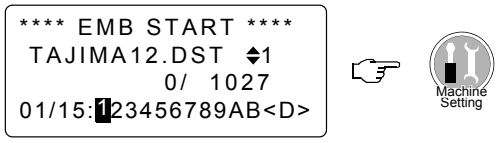
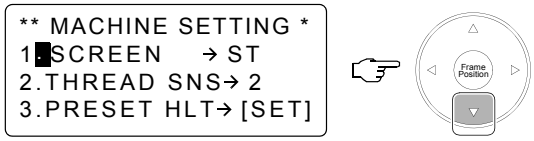
The number of inching times

Set the number of inching times after thread trimming.

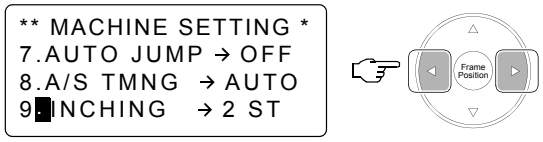
1. **Switch to “MACHINE SETTING”.**



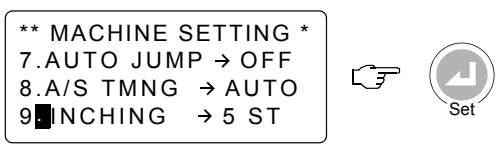
2. **Switching of item to be displayed**



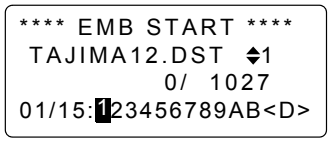
3. **Selection of the setting value**



4. **Set**



5. **Completion**



When starting the machine manually after stopping the machine manually, the machine will not perform inching.

Setting value:2, 3, ... 8,9

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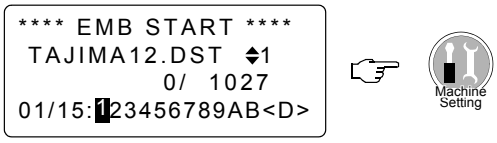
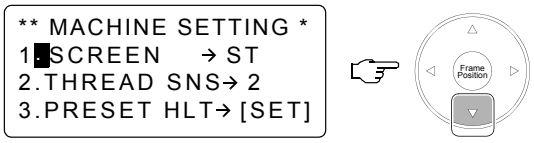
Tie stitching

This is the setting for tie stitching when starting and/or ending embroidery.

1. Switch to "MACHINE SETTING".

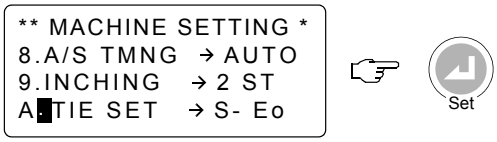


2. Switching of item to be displayed

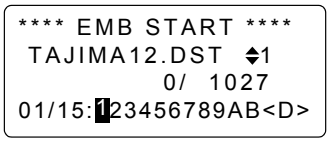


3. Selection of the setting value

4. Set



5. Completion



Tie stitching goes and returns in 0.8 mm.

: So/S-

: Eo/E-

So: To perform tie stitching at the start of sewing
Eo: Tie stitching is performed at the end of sewing.
S-, E-: Not to perform tie stitching

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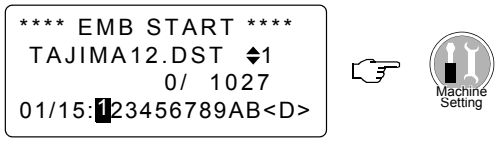
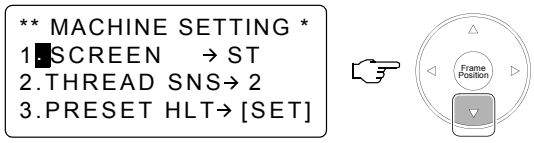
Satin adjustment

This setting corrects satin stitch length.

1. Switch to “MACHINE SETTING”.

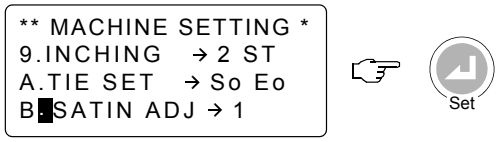


2. Switching of item to be displayed

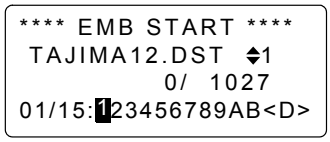


3. Selection of the setting value

4. Set



5. Completion



Setting value: Off,1,2,3,4,5
OFF: No satin adjustment
1 to 5: 0.1 to 0.5 mm

The adjusting value will be added to both sides of a stitch.

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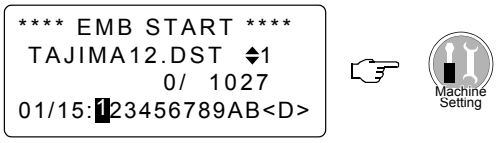
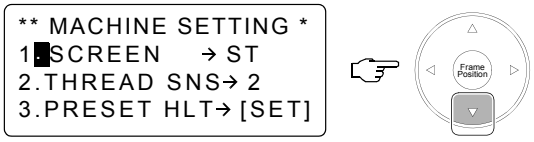
Boring

This is the setting for boring device.

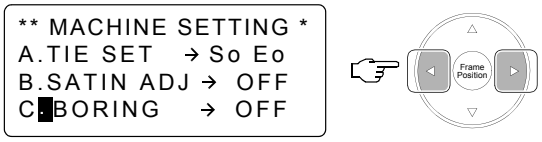
1. Switch to “MACHINE SETTING”.



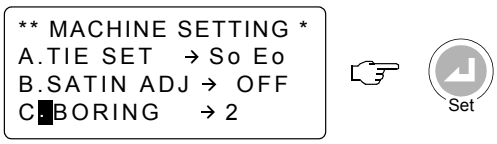
2. Switching of item to be displayed



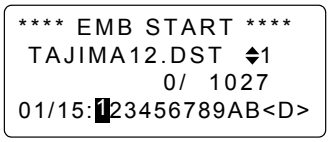
3. Selection of the setting value



4. Set



5. Completion



Not available to use in 1-needle machine.

OFF: Not equipped
1: Equipped, without offset
2: Equipped, 12 mm offset

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Cording

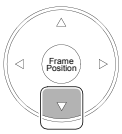
This is the setting for cording.

1. Switch to “MACHINE SETTING”.

```
**** EMB START ****
 TAJIMA12.DST  ◆1
          0/  1027
01/15:123456789AB<D>
```

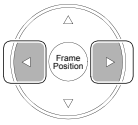
2. Switching of item to be displayed

```
** MACHINE SETTING *
1.SCREEN     → ST
2.THREAD SNS→ 2
3.PRESET HLT→ [SET]
```



3. Selection of the setting value

```
** MACHINE SETTING *
B.SATIN ADJ → OFF
C.BORING    → OFF
D.CORDING   → OFF
```



4. Set

```
** MACHINE SETTING *
B.SATIN ADJ → OFF
C.BORING    → OFF
D.CORDING   → ON
```

5. Completion

```
**** EMB START ****
 TAJIMA12.DST  ◆1
          0/  1027
01/15:123456789AB<D>
```

Not available to use in 1-needle machine.

OFF: Not equipped
ON: Equipped

It is not possible to perform setting when the last needle is not selected.

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Sequin

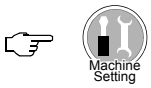
This is a setting for sequin device.

CAUTION

When performing this operation, do not have your hands or face access to the vicinity of sequin device. You could be injured by the moving device.

1. Switch to "MACHINE SETTING".

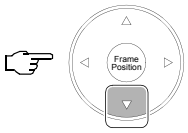
```
**** EMB START ****
 TAJIMA12.DST  ◆1
          0/  1027
01/15:123456789AB<D>
```



Not available to use in 1-needle machine.

2. Switching of item to be displayed

```
** MACHINE SETTING *
1.SCREEN    → ST
2.THREAD SNS→ 2
3.PRESET HLT→ [SET]
```

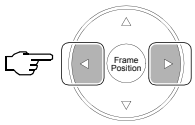


3. Set

```
** MACHINE SETTING *
C.BORING    → OFF
D.CORDING   → OFF
E.SEQUIN SET→ [SET]
```

4. Up/down operation

```
****** SEQUIN ******
UP/DOWN  →  U < > D
SEQUIN L →   6.0mm
SEQUIN R →   OFF
```



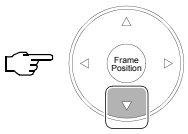
Move up/down the sequin device of selected needle bar by manual operation.

U: To move up the device

D: To move down the device

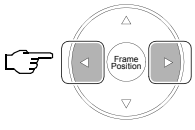
5. Switching of item to set

```
****** SEQUIN ******
UP/DOWN  →  U < > D
SEQUIN L →   6.0mm
SEQUIN R →   OFF
```



6. Set feed amount of sequin.

```
****** SEQUIN ******
UP/DOWN  →  U < > D
SEQUIN L →   6.0mm
SEQUIN R →   OFF
```



The value added by 0.7 mm to the diameter of sequin chip to use is a rough standard for feed amount. In case of 3 mm sequin, set to 4.0 mm.

Setting value: Off, 4.0 to 9.9 mm

When sequin device is not used, set to "OFF".

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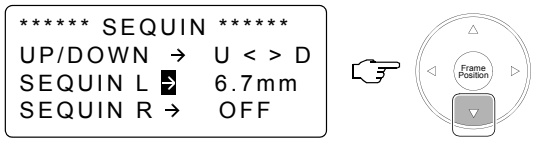
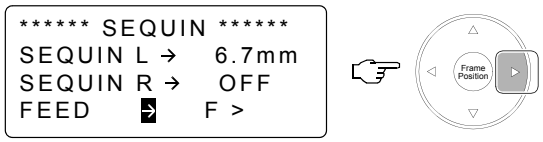
7. Switching of item to set

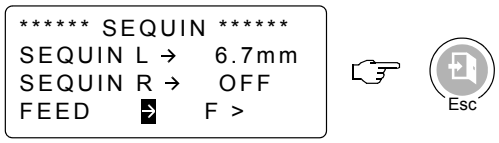


8. Chip feed operation



Pressing it feeds one piece of sequin chip.

9. End of working



To end the working, press the “ESC” button.

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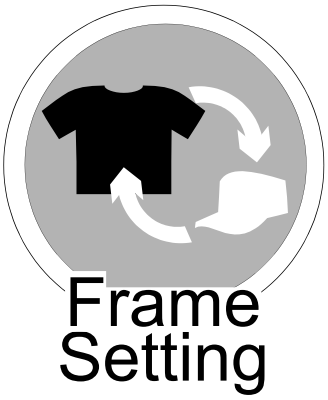
8. FRAME SETTING



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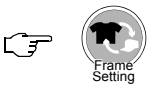
Frame speed

This setting sets speed when the frame moves.

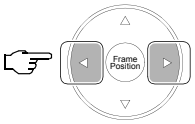
1. Switch to “FRAME SETTING”.

```
**** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123456789AB<D>
```



2. Select setting value.

```
*** FRAME SETTING **
1.MANUAL SPD→ 1
2.OFFSET     → MANUAL
3.ORIGIN RTN→ MANUAL
```



3. Set

```
*** FRAME SETTING **
1.MANUAL SPD→ 3
2.OFFSET     → MANUAL
3.ORIGIN RTN→ MANUAL
```

4. Completion

```
**** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123456789AB<D>
```

Corresponding movement
Manual frame travel, origin search, origin return, trace, offset

Setting value: 1, 2, 3

1	*2*	*3*
Low speed	Middle speed	High speed

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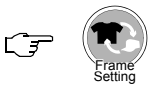
Offset

This setting makes the frame move to offset position automatically/manually.

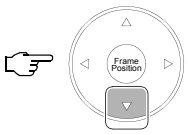
1. Switch to “FRAME SETTING”.

```
**** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123456789AB<D>
```



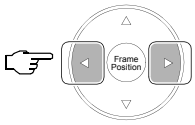
2. Select offset.

```
*** FRAME SETTING **
1.MANUAL SPD→ 1
2.OFFSET     → MANUAL
3.ORIGIN RTN→ MANUAL
```



3. Select setting value.

```
*** FRAME SETTING **
1.MANUAL SPD→ 1
2.OFFSET     → MANUAL
3.ORIGIN RTN→ MANUAL
```



4. Set

```
*** FRAME SETTING **
1.MANUAL SPD→ 1
2.OFFSET     → AUTO
3.ORIGIN RTN→ MANUAL
```

5. Completion

```
**** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123456789AB<D>
```

Set position of offset by manual offset operation.
Offset (setting for position)=> p.9-4

Setting value: AUTO/MANUAL

Auto	The frame will move automatically to offset position at temporary stop or end of embroidery.
Manual	The frame will not move automatically.

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Origin return

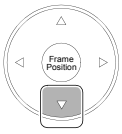
This setting makes the frame move to the design start position manually/automatically.

1. Switch to “FRAME SETTING”.

```
**** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123456789AB<D>
```

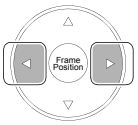
2. Select origin return.

```
*** FRAME SETTING **
1.MANUAL SPD→ 1
2.OFFSET     → MANUAL
3.ORIGIN RTN→ MANUAL
```



3. Select setting value..

```
*** FRAME SETTING **
1.MANUAL SPD→ 1
2.OFFSET     → MANUAL
3.ORIGIN RTN→ MANUAL
```



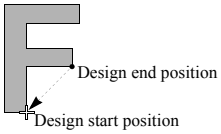
4. Set

```
*** FRAME SETTING **
1.MANUAL SPD→ 1
2.OFFSET     → MANUAL
3.ORIGIN RTN→ AUTO
```

5. Completion

```
**** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123456789AB<D>
```

Origin return



Setting value: AUTO/MANUAL

Auto	The frame will move to the design start position when embroidery is finished
Manual	It is possible to stop or perform frame back at end position of embroidery

In case of manual setting
When performing the next embroidery after the end of the embroidery, perform origin return manually.
Manual origin return=> p.9-2

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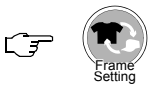
Frame mode

Set the embroidery frame to flat frame/cap frame/cylindrical frame/border frame.

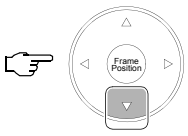
1. Switch to “FRAME SETTING”.

```
**** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123456789AB<D>
```



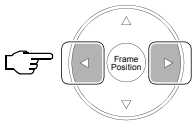
2. Switching of item to be displayed

```
*** FRAME SETTING **
1.MANUAL SPD→ 1
2.OFFSET     → MANUAL
3.ORIGIN RTN→ MANUAL
```



3. Select frame type.

```
*** FRAME SETTING **
2.OFFSET     → MANUAL
3.ORIGIN RTN→ MANUAL
4.FRAME MODE→ FLAT
```



Setting value

Flat	Tubular goods frame, auto clamp frame
Cap	Cap frame
Cylinder	Cylindrical frame
Border	Border frame

4. Set

```
*** FRAME SETTING **
2.OFFSET     → MANUAL
3.ORIGIN RTN→ MANUAL
4.FRAME MODE→ CAP
```

5. Initial (origin search)

```
** TEJT2-C series **

 FRAME   ◆ CAP
 INITIAL→ ON      <D>
```

When setting the frame mode, the screen will return to the initial screen. When the type of frame is changed, the position of origin will change. Press “SET” to cause the machine to perform origin search.

6. Completion

```
**** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123456789AB<D>
```

Available range of embroidery will be limited depending on the type of frame.

Frame Type	X-axis	Y-axis
Tubular goods frame	+/-250 mm	+/-180 mm
A. Clamp-T	+/-20 to75mm	+/-40-90mm
A. Clamp-B	+/-140mm	+/-05mm
Cap frame	+/-180 mm	+43 mm -35 mm
Cylindrical frame	+/-65 mm	+/-90 mm
Border	+/-250 mm	+/-180mm

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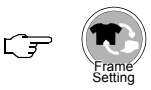
Initial (origin search)

This setting performs origin search at turning on the power to return the frame to the position where the power was shut off.

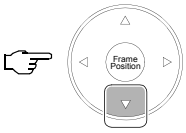
1. Switch to “FRAME SETTING”.

```
**** EMB START ****
 TAJIMA12.DST  ◆1
          0/  1027
01/15:123456789AB<D>
```



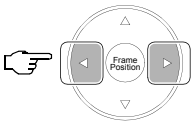
2. Switching of item to be displayed

```
*** FRAME SETTING **
1.MANUAL SPD→ 1
2.OFFSET     → MANUAL
3.ORIGIN RTN→ MANUAL
```



3. Selection of the setting value

```
*** FRAME SETTING **
3.ORIGIN RTN→ MANUAL
4.FRAME MODE→ CAP
5.INITIALIZE→ OFF
```



4. Set

```
*** FRAME SETTING **
3.ORIGIN RTN→ MANUAL
4.FRAME MODE→ CAP
5.INITIALIZE→ ON
```

5. Completion

```
** TEJT2-C series **

 FRAME  → FLAT
 INITIAL→ ON      <D>
```

📖 “Initial” operation searches the center of the embroidery frame.
Origin of frame differs depending on frame type.

📖 Setting value: ON/OFF
ON: To search the origin when the power switch is turned “ON”
OFF: Not to search origin

📖 When changing origin search to “ON”, the screen will return to the start screen.
Pressing “SET” will cause the machine to perform origin search and to call embroidery start screen.

📖 “INITIAL” operation is required in the following cases:
1. Frame type has been changed
2. When the power was shut off in the middle of embroidering
3. When installing each software from floppy disk
4. When installing PANEL software from PC

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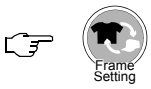
Trace

This setting sets frame travel mode when the machine performs tracing.

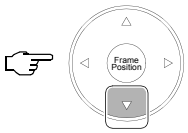
1. Switch to "FRAME SETTING".

```
**** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123456789AB<D>
```



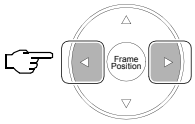
2. Switching of item to be displayed

```
*** FRAME SETTING **
1.MANUAL SPD→ 1
2.OFFSET     → MANUAL
3.ORIGIN RTN→ MANUAL
```



3. Selection of the setting value

```
*** FRAME SETTING **
4.FRAME MODE→ CAP
5.INITIALIZE→ OFF
5.TRACE MODE→SQUARE
```



4. Set

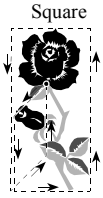
```
*** FRAME SETTING **
4.FRAME MODE→ CAP
5.INITIALIZE→ OFF
5.TRACE MODE→CONTOUR
```

5. Completion

```
**** EMB START ****
 TAJIMA12.DST  ◆1
         0/  1027
01/15:123456789AB<D>
```

The frame moves along a square/contour of the embroidery range of design before the machine performs embroidery. It is possible to check whether fabric, frame and/or embroidery range are correct.

Square



Contour

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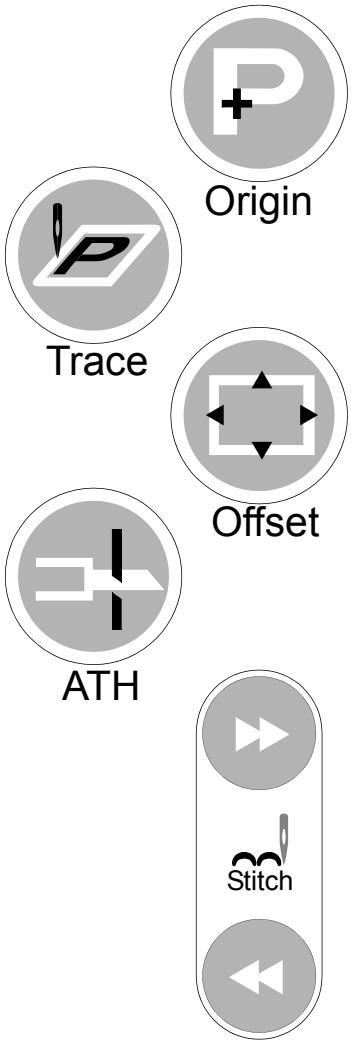
9. Manual operation



JZ05

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Manual origin return

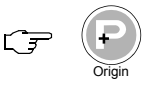
Return the embroidery frame to design start position.

CAUTION

When performing this operation, do not put your hands under the needle or on the machine table. If your hands are under the needle or on the machine table, you may be injured by the needle or the moving frame.

1. Select origin return

```
***** EMB PAUSE ****
 TAJIMA12.DST  ◆1
       58/  1027
01/15:123456789AB<D>
```



2. Confirm

```
***** EMB PAUSE ****

    CANCEL EMB ?
     [Y=SET,N=ESC]
```

3. Completion

```
**** EMB START ****
 TAJIMA12.DST  ◆1
       0/  1027
01/15:123456789AB<D>
```

When performing origin return in process of embroidery, it will become impossible to continue embroidery.

Pressing “SET” will cause the frame to move to the start position of design.

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Trace

Move the embroidery frame along the embroidery range of design data.

CAUTION

When performing this operation, do not put your hands under the needle or on the machine table. If your hands are under the needle or on the machine table, you may be injured by the needle or the moving frame.

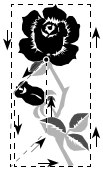
1. Select trace

```
**** EMB START ****
 TAJIMA12.DST  ◆1
      0/  1027
01/15:123456789AB<D>
```

2. In process of tracing

```
****** TRACE ******
 TAJIMA12.DST  ◆1
X SIZE→  54.0 mm
Y SIZE→  10.7 mm
```

Square



Contour

Regarding trace mode setting, refer to frame setting.
Trace=> p.8-7

It is not possible to perform tracing in process of embroidery.

Pressing the trace key will cause the trace starting position to become a start position of design.

Embroidery size of design will be displayed during tracing.

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Offset (setting for position)

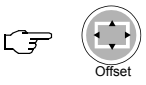
Set offset position.

CAUTION

When performing this operation, do not put your hands under the needle or on the machine table. If your hands are under the needle or on the machine table, you may be injured by the needle or the moving frame.

1. Select offset

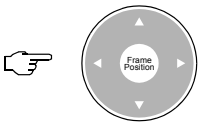
```
**** EMB START ****
 TAJIMA12.DST  ▲1
       0/  1027
01/15:123456789AB<D>
```



When changing frame type, the offset position will return to (0, 0).

2. Setting for offset position

```
**** EMB START ****
        OFFSET
Dx → +  0.0 (+  0.0)
Dy → +  0.0 (+  0.0)
```



Set an offset position using frame travel key. Moving position of the frame will be displayed with coordinates.

3. Set

```
**** EMB START ****
        OFFSET
Dx → + 27.1 (+  0.0)
Dy → - 56.4 (+  0.0)
```

Pressing "SET" will cause the set position to be registered to the machine and to be used for all design data.

4. Completion

```
**** EMB START ****
        OFFSET
Dx → + 27.1 (+ 27.1)
Dy → - 56.4 (- 56.4)
```

When setting offset of frame setting to auto, the frame will move to the offset position when the machine stops temporarily or after completion of embroidery. At this moment, the screen shown left will be displayed. The screen shows that the machine stops at the offset position.

5. ↻ ..... Return to the original position

```
**** EMB START ****
        OFFSET
Dx → + 27.1 (+ 27.1)
Dy → - 56.4 (- 56.4)
```


```
**** EMB START ****
 TAJIMA12.DST  ▲1
       0/  1027
01/15:123456789AB<D>
```

Pressing the offset key will cause the frame to return to the position before travel.

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Offset (change of position)

Change offset position.

CAUTION

When performing this operation, do not put your hands under the needle or on the machine table. If your hands are under the needle or on the machine table, you may be injured by the needle or the moving frame.

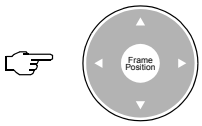
1. Select offset

```
**** EMB START ****
 TAJIMA12.DST  ▲▼1
       0/  1027
01/15:123456789AB<D>
```

When changing frame type, the offset position will return to (0, 0).

2. Change offset position

```
**** EMB START ****
          OFFSET
Dx → + 27.1 (- 27.1)
Dy → - 56.4 (+ 56.4)
```



The frame will move to the registered offset position. Set a new position using frame travel key.

3. Set

```
**** EMB START ****
          OFFSET
Dx → + 60.9 (- 27.1)
Dy → + 14.1 (+ 56.4)
```

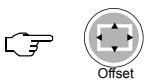
Pressing "SET" will register the moved position.

4. Completion

```
**** EMB START ****
          OFFSET
Dx → + 60.9 (- 60.9)
Dy → + 14.1 (+ 14.1)
```

5. ↺ .....Return to the original position

```
**** EMB START ****
          OFFSET
Dx → + 60.9 (- 60.9)
Dy → + 14.1 (+ 14.1)
```




```
**** EMB START ****
 TAJIMA12.DST  ▲▼1
       0/  1027
01/15:123456789AB<D>
```

Pressing the offset key will cause the frame to return to the position before travel.

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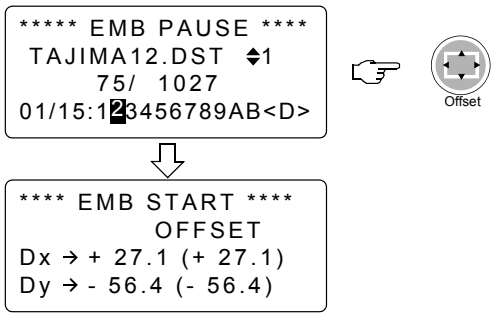
Offset (frame travel)

This operation moves the frame to offset position/the current position.

CAUTION

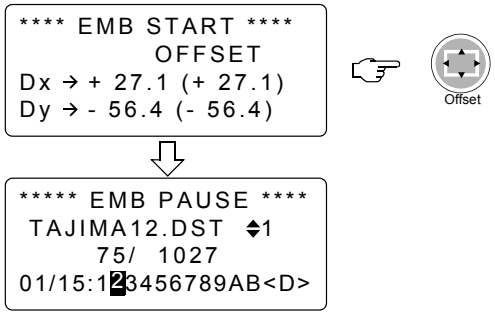
When performing this operation, do not put your hands under the needle or on the machine table. If your hands are under the needle or on the machine table, you may be injured by the needle or the moving frame.

1. Move to the offset position



Pressing the offset key will cause the frame to move to the registered offset position.

2. ↻ ..... Return to the original position



Pressing the offset key will cause the frame to return to the position before travel. In addition, pressing the start switch will cause the machine to return to the original position and then to start embroidery.

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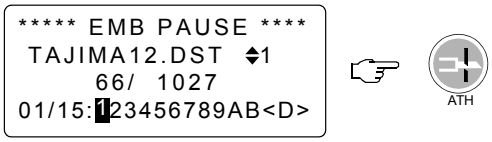
Manual Thread Trimming

Perform thread trimming.

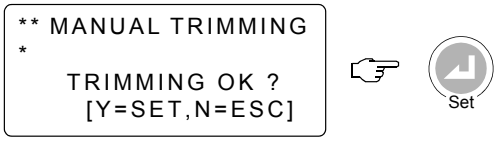
CAUTION

When performing this operation, do not put your hands under the needle or on the machine table. If your hands are under the needle or on the machine table, you may be injured by the needle or the moving frame.

1. Select thread trimming (ATH).



2. Confirm



When selecting ATH, the main shaft will rotate. When tie stitching is set, the machine will embroider for one stitch to perform thread trimming.
Tie stitching=> p.7-11

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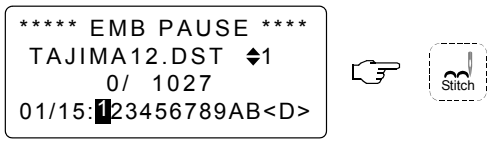
Frame back/forward (feed unit)

This operation performs frame back/forward by set feed unit.

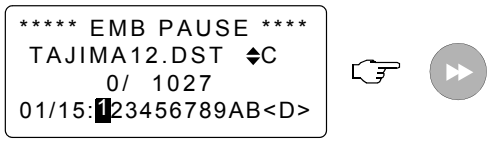
CAUTION

When performing this operation, do not put your hands under the needle or on the machine table. If your hands are under the needle or on the machine table, you may be injured by the needle or the moving frame.

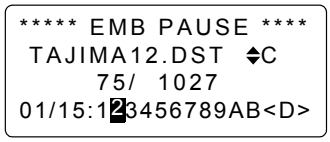
1. Select mode (color change unit)



2. Frame forward by color change unit



3. Completion



Setting value:1,10,100,C,nNeedle
1: 1 stitch unit
10: 10 stitch unit
100: 100 stitch unit
C: Color change unit
n: Stitch position inputted by numerical key

Pressing “FORWARD/BACK” for one second or longer will cause the frame to move until color change even if it is released.

Pressing “FORWARD” will cause the frame to move to the stitch position of color change.
Every pressing will perform frame forward to the next color change position.

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Frame back/forward (feed by n-stitches)

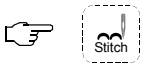
This operation performs frame back/forward by input stitch count.

CAUTION

When performing this operation, do not put your hands under the needle or on the machine table. If your hands are under the needle or on the machine table, you may be injured by the needle or the moving frame.

1. Select mode (n stitch)

```
***** EMB PAUSE ****
 TAJIMA12.DST ◆C
      75/  1027
01/15:123456789AB<D>
```



Setting value:1,10,100,C,nNeedle
1: 1 stitch unit
10: 10 stitch unit
100: 100 stitch unit
C: Color change unit
n: Stitch position inputted by numerical key

2. Input the stitch count

```
***** EMB PAUSE ****
 TAJIMA12.DST ◆n ST
      75/  1027
01/15:123456789AB<D>
```

When the input stitch count is larger than the current stitch count, frame forward will be performed. When it is smaller than the current stitch count, frame back will be performed.

3. Move the frame to stitch position

```
*** FORWARD/BACK ***
 TAJIMA12.DST ◆n ST
   *   356/  1027
01/15:123456789AB<D>
```

Pressing “SET” will cause the machine to perform frame forward (frame travel) to the inputted stitch position.

4. Completion

```
***** EMB PAUSE ****
 TAJIMA12.DST ◆n ST
      356/  1027
01/15:12345 789AB<D>
```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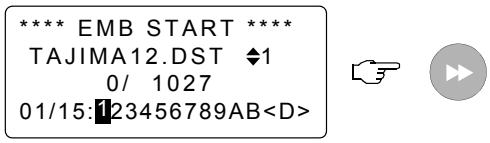
Frame forward

The machine will perform frame forward.

CAUTION

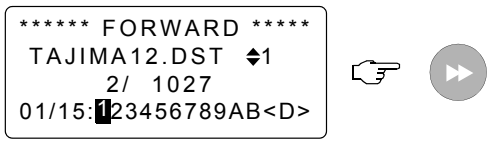
When performing this operation, do not put your hands under the needle or on the machine table. If your hands are under the needle or on the machine table, you may be injured by the needle or the moving frame.

1. Select forward



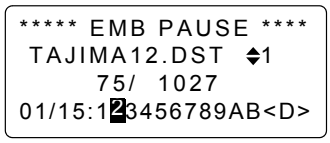
When 1 stitch unit is set, pressing "forward" once will cause the machine to perform frame forward by one stitch.

2. Keep on pressing "forward".



Pressing "FORWARD" for one second or longer will cause the frame to move until color change even if it is released. To stop the frame, press the stop switch.

3. Stop at color change position



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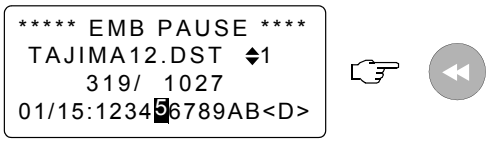
Frame back

The machine will perform frame back.

CAUTION

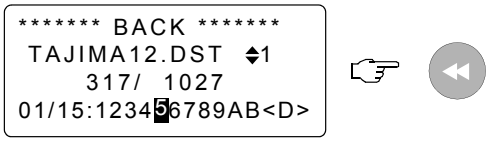
When performing this operation, do not put your hands under the needle or on the machine table. If your hands are under the needle or on the machine table, you may be injured by the needle or the moving frame.

1. Select back



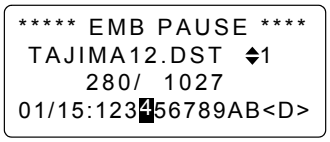
When 1 stitch unit is set, pressing "back" once will cause the machine to perform frame back by one stitch.

2. Keep on pressing "back".



Pressing "BACK" for one second or longer will cause the frame to move until color change even if it is released. To stop the frame, press the stop switch.

3. Stop at color change position



Frame back will be continued to the position of color change.

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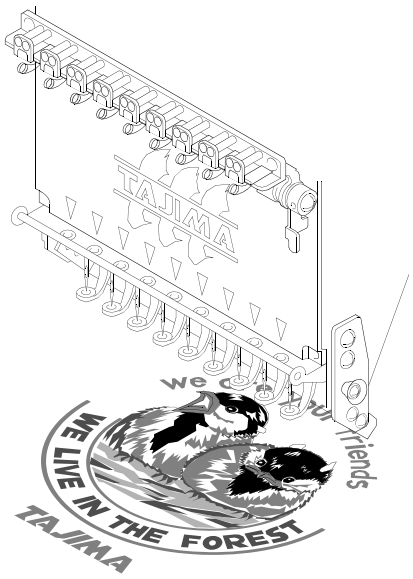
10. Outline of functions



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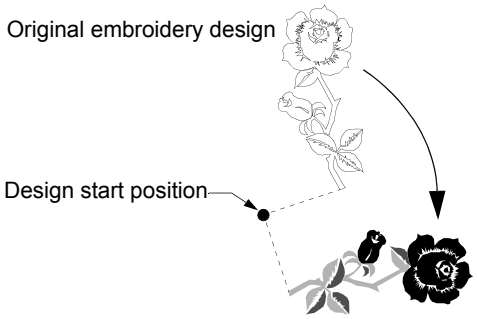
Rotate

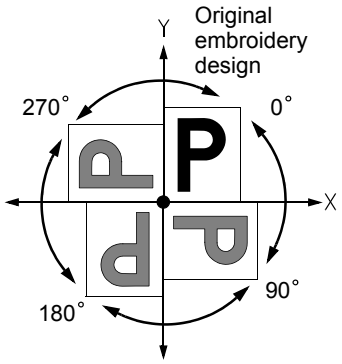
This function rotates design of which data has been set.

The design is rotated centering the design start position.

Unit of rotation: 90°

[Example: 90° rotation]





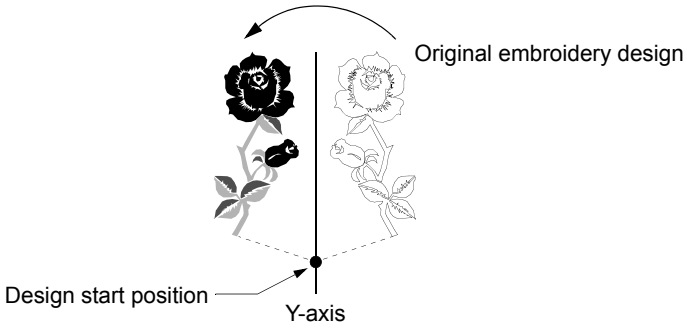
Mirror

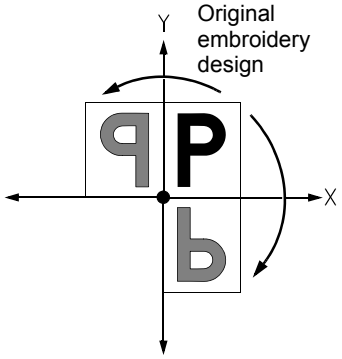
This function reverses design of which data has been set.

Design will be reversed horizontally/vertically based on a start position of design as the origin.

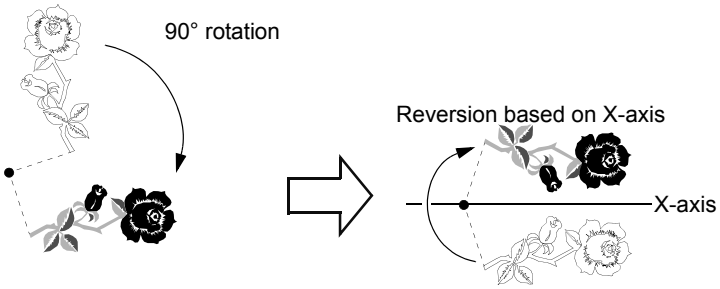
Reversing axis: X (Symmetric with respect to the X-axis)/Y (Symmetric with respect to the Y-axis)

[Example: Reversion based on Y-axis]





[Example: 90° rotation and reversion based on X-axis]



When both rotation and mirror are set, priority order will become rotation → reversion.

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Size

This function enlarges/reduces design of which data has been set.

It is possible to change scale ratio within a range of 80 to 120%.

Unit of scaling: 1%

[Example: 120%]

Original embroidery design

Even if a size of design data changes, the start position of design will remain unchanged.

Repeat

This function repeats embroidery of a design of which data has been set.

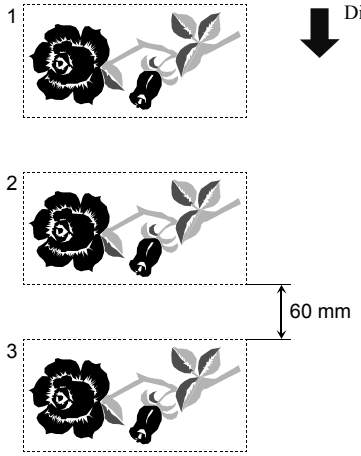
Set embroidery direction, the number of times of repeat, and design interval.

It is possible to rotate and/or reverse (mirror) the design repeatedly arranged.
Priority order: Repeat → Rotation → Mirror

[Example Direction: Horizontal, The number of times: 4, Space: 55 mm

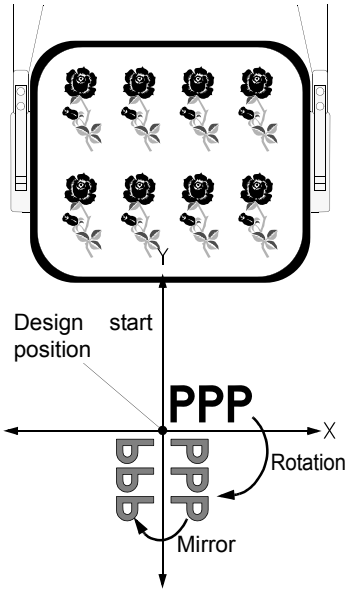
When performing "Trace" after setting "Repeat", it will be possible to confirm the whole embroidery space. Adjust start position, the number of repeats, interval, etc. so that the embroidery space does not exceed the frame.

[Example Direction: Horizontal, The number of times: 3, Space: 60 mm, rotation: 90°, Mirror:Y]



Direction: horizontal (Even if you set horizontal direction, the machine will actually perform embroidery in vertical direction because the design is rotated by 90°.)

If mirror is set to X-axis in the repeat setting illustrated above, embroidery will be performed in reversed order.



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Offset

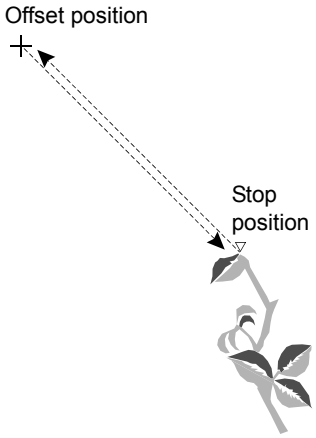
This function makes the frame move to the position set by offset, and return the frame to the original position after working.

Offset includes manual/automatic setting (frame setting).

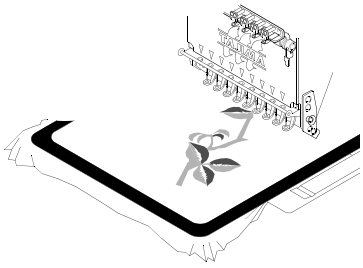
1. Manual Offset

Pressing “OFFSET” at machine stop will cause the frame to move to the offset position. Pressing the “OFFSET” once more will cause the frame to return to the original position.

[Example: Placing applique]

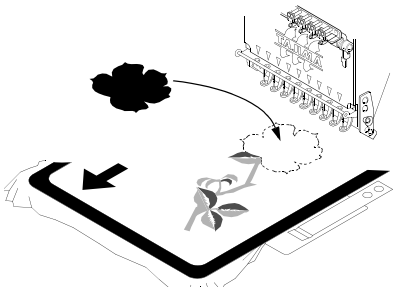


(1) Stop the machine

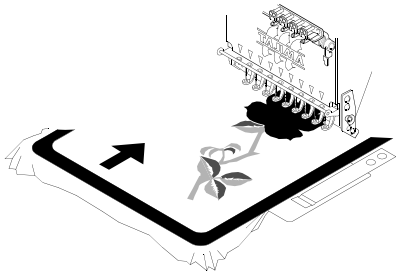


(2) Move the frame to the offset position

(3) Place applique



(4) Press the offset button to return the frame to the original position. (Pressing the start button will cause the frame to return to the original position to restart the embroidery.)



Setting a temporary stop at color change will facilitate arranging applique etc.
Setting for temporary stop => p.5-4

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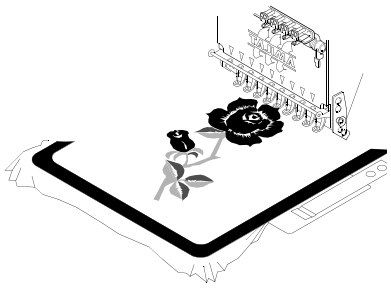
2. Automatic offset

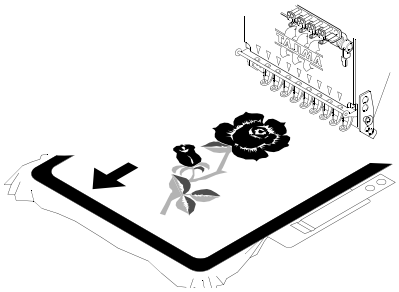
This setting makes the frame move to the offset position automatically when embroidery is finished if offset position is set and offset of frame setting is set to auto.

[Example: Exchange of frame]

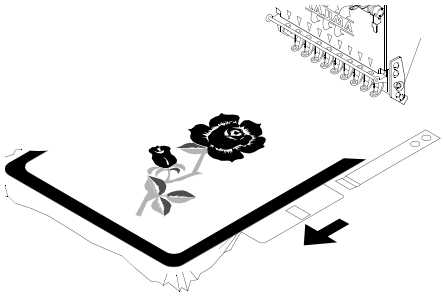
(1) Embroidery is finished



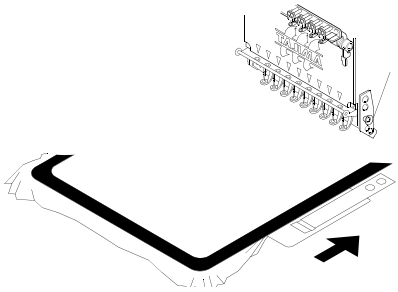
(2) Move the frame to the offset position



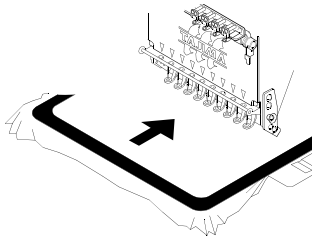
(3) Change the frame



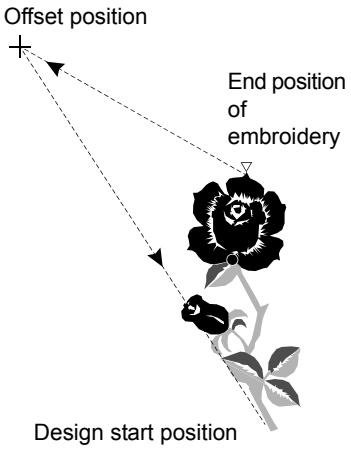
(4) New frame (Re-stretching of cloth)



(5) When pressing the start button, the frame will move to the design start position and embroidery will start.



To embroider the same design, set frame setting “Origin return” to auto so that the machine performs embroidery from the same start position.
Origin return => p.8-4



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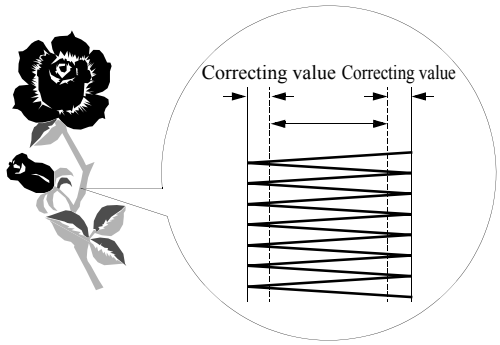
Satin adjustment

This function expands satin stitch length.



To expand satin stitch length, set satin adjustment of machine setting.

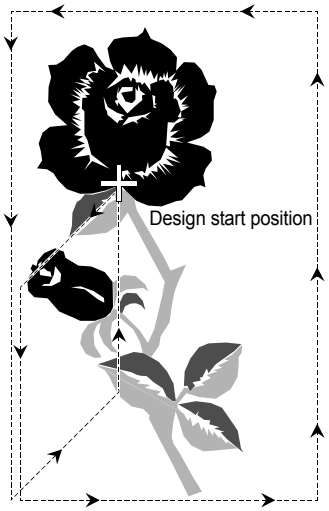
Setting value: Off, 1 to 5

Stitches of 1.5 mm or longer will be corrected according to setting value. In case of stitches less than 1.5 mm, correcting value will be smaller.
Switching the DIP switch (2DWS) of the operation panel will correct stitches of 0.6 mm or longer.
DIP switch => p.2-7

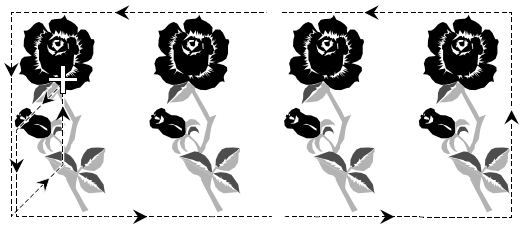
Trace

This function makes the frame move along an embroidery range of design of which data has been set as a square or contour.

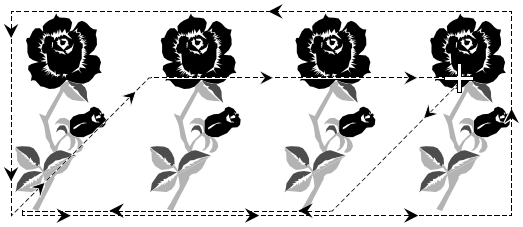
When the machine starts tracing of the set design, it will go to the square corner on the front left and return to the start position of design after circling four corners or contour.



When repeat is set, the machine will trace the whole embroidery space.



If mirror: Y is set to the repeat shown above, the machine will perform trace as shown below.



Pressing the trace key will cause the trace starting position to become a start position of design.

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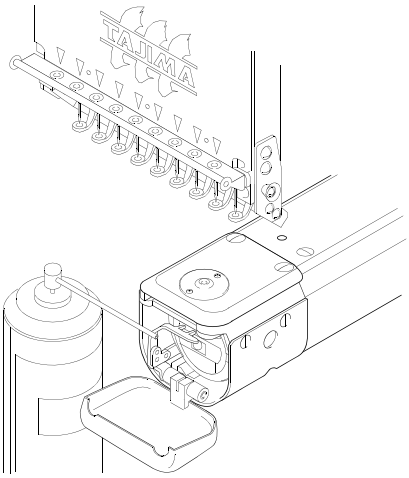
11. TROUBLESHOOTING AND MAINTENANCE



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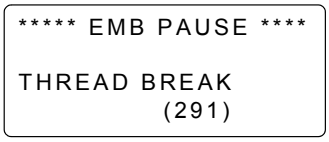
When the machine is stopped during operation

There are two main machine stop factors: one is stop by occurrence of error and another is stop by normal stop factor. When the machine operation is interrupted with code number displayed on the screen, carry out the troubleshooting referring to the code chart below.



An example of stop caused by occurrence of error

1. Stop by occurrence of error

📖 When releasing the error display
(1) Confirm the contents of error.
(2) Take proper action. In addition,If a code number of 300 series is displayed, contact your local distributor.
(3) Press the stop button to release the error.

Code number	Stop Factor	Corrective Action
211	The main shaft has stopped deviating from the fixed position	Adjust main shaft stop position to the fixed position. => p.11-3
225	Embroidery space was exceeded.	Move the frame manually so that the design fits in the embroidery area.
281	The target needle position is not detected even after 15 seconds after start of color change.	•Adjust needle position. => p.11-3 •Check or replace the potentiometer (needle position sensor). •Correct mis-input of needle position.
291	The machine detected thread breakage.	Check upper thread/under thread.
2BA	Input of design data exceeded the memory capacity.	Press the ESC key to stop data input. 📖Input design data again after deleting unnecessary design data. Press the SET key to enable embroidery by data set without data input. 📖When the power is shut down in the middle of embroidery, the data will be lost.
2CF	Stop by emergency stop switch	Release the lock of the emergency stop switch.
2FC	Abnormal temperature in the machine	Check if the room temperature is too high. Check the cooling fan.
316	A main shaft motor error signal is detected.	Replace the power card, main shaft motor.
322	An X-axis motor error signal is detected.	Replace the power card, X-axis motor.
323	A Y-axis motor error signal is detected.	Replace the power card, Y-axis motor.
3A6	Incorrect ATH movable knife retractable position	Check the position of ATH movable knife.
3B5	Communication error in the controller	Turn on the power again.
3B6	Communication error with the external device	Check the connecting cable and/or the external device.
3D5	RAM memory error	Install the operation program again. Replace the Console 1 card.
B01	Format error of the floppy disk	Format the floppy disk. Replace with a new formatted floppy disk.
B04	A floppy disk is not inserted.	Insert the floppy disk.
BC1	No design is registered in the floppy disk.	Insert the floppy disk in which design data is registered.
BC3	The disk driver has an abnormality.	Replace the disk driver.
	Sector(s) of the floppy disk are damaged.	Format the floppy disk. Replace with a new formatted floppy disk.
	Floppy disk cannot be read.	
C01	The disk driver does not work.	Check if the floppy disk is set at the fixed position. Check the disk driver connector. If there is no problem with the connection, replace the disk driver unit.

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2. Maintenance stop

Maintenance stop is a stop to perform maintenance. It is not a stop by error.

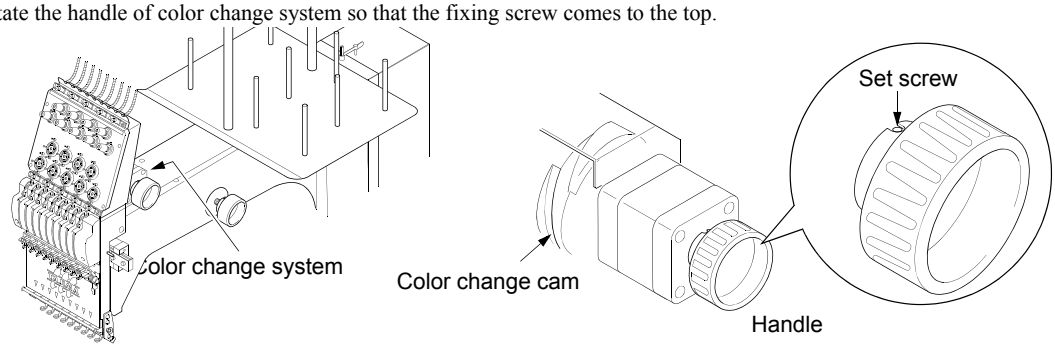
🕮 The message is displayed when embroidery starts (pressing the start button).

When the message shown right is displayed on the screen, supply oil to the specified spots. After the lubrication, press the stop button to release the maintenance mode to continue working. Lubrication=> p.11-7	**MAINT. REQUIRD** One drop of oil →As per Inst. Manual
When the message shown right is displayed on the screen, grease the specified spots. After the greasing, press the stop button to release the maintenance mode to continue working. Greasing=> p.11-8	**MAINT. REQUIRD** Grease→Cams Take-up, Presser →As per Inst. Manual

3. Adjustment of needle position

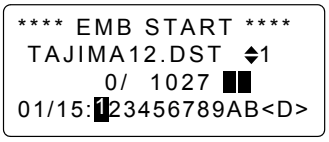
When the change cam deviates from the fixed position, the machine will not work.
Adjust needle position with the following operations.

(1) Rotate the handle of color change system so that the fixing screw comes to the top.

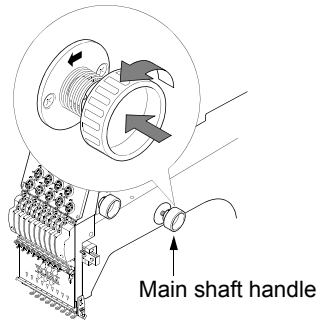


🕮 When the fixing screw of the handle is positioned at the top, odd-numbered needle bars are selected.

4. Adjustment of stop position of main shaft



When main shaft stop comes off from the fixed position, the black square as shown left will blink. Perform manual color change to rotate the main shaft to return the stop position to the fixed position. After the main shaft stop returns to the fixed position, perform manual color change once again to return the needle bar to the original one.Manual origin return=> p.9-2



🕮 Turning the main shaft handle to the position where blinking of the black square stops will result in stop position of the main shaft. Turn the main shaft handle while pushing it.

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When trouble occurs

CAUTION

Adjustment includes some complicated works. Consult your local distributor before working.

Examples for causes and adjustments when trouble(s) occur are described below.

	Cause	Adjust
Machine cannot start	Loose or broken belts	Adjust the belt tension or replace the belt.
	Needle position signal, NOT detected.	Adjust needle position. => p.11-3
	Poor connection of connector	Securely connect the connectors.
Stop position error	Loose or soiled belt	Adjust the belt tension or clean the belt.
	Galling of driving parts	Adjust or replace the needle bar drive system and/or rotary hook.
Incorrect color changing	Stop position is incorrect.	Adjust the position.
	Position of take-up lever is wrong.	Adjust the position of the take-up lever at the stop position so that its position is the same as others.
	Needle position NOT detected.	Adjust the needle position so that needle position is properly indicated in the manual color change section on the operation panel. => p.11-3
Jump error	Incorrect positioning of parts related to needle bar drive system	Adjust the attaching position of the needle bar reciprocator set with the upper dead point stopper.
Design displaced	Incorrect tension of frame drive belt	Adjust the belt tension.
	Malfunctioning of frame drive system	Replace/adjust the parts.
	Overall frame weight is excessive.	Lower the r.p.m. of the main shaft.
	Drive unit (X, Y-axes) defective	Replace the drive unit.
		Replace the X-axis/Y-axis drivers.
Thread breakage	Wrong needle-rotary hook timing or improper gap	Adjust the timing or gap.
	Wrong needle bar lower dead point	Readjust the lower dead point.
	There are flaw(s) in the course where thread passes.	Remove the scratches.
	Incorrect upper/lower thread tension	Adjust the tension.
	Repeated stitching at the same point	Correct the data.
	Incorrect take-up lever timing	Readjust the take-up lever driving cam timing.
ATH	The machine cannot trim thread.	Adjust the ATH knife position.

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Daily Maintenance

1. Warning and cautions

⚠ WARNING

To prevent accidents resulting in injury or death and physical damage, the following must be observed when performing daily maintenance (cleaning, lubrication, greasing, and/or inspection).

- **The maintenance operations must be performed by properly trained personnel.**
- **When restarting the machine after maintenance operation, attach all covers etc. which were removed for maintenance operation.**

⚠ CAUTION

- **Perform daily maintenance in the specified schedule.**
  If the daily maintenance is not observed, the machine may fail to operate correctly. Since the loss incurred by ignoring the daily maintenance instructions can be judged "not covered by guarantee".
- **If the machine is not used for a long period, turn the power switch ON in regular intervals.**
  Although each card of the machine has a backup battery, data may be lost for about one month because voltage of the battery will come down gradually due to discharge when the power switch is turned off.
- **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.

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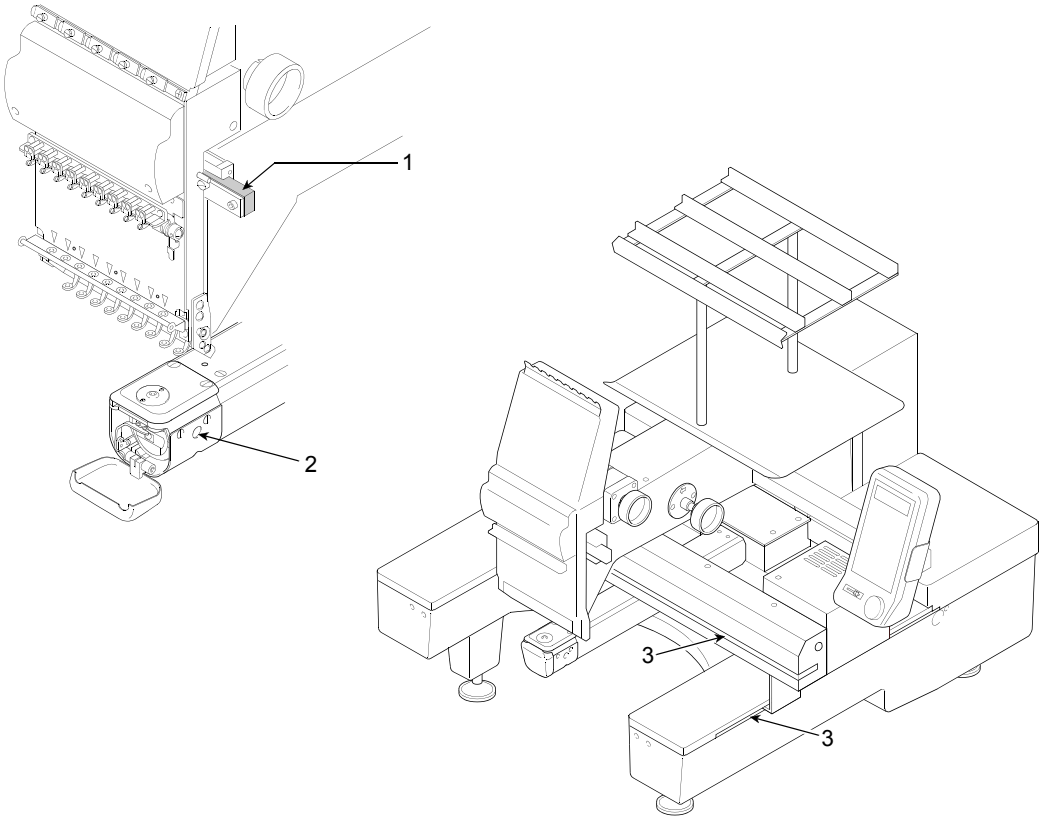
2. Cleaning

WARNING

- **Before starting cleaning of the machine, be sure to disconnect the primary power to the machine and wait for four minutes. You could sustain electric shock or injury due to being entangled by the machine.**
- **The maintenance operations must be performed by properly trained personnel.**
- **When restarting the machine after maintenance operation, attach all covers, etc., which were removed for maintenance operation.**

Cleaning area	Cleaning cycle
(1) Case linear section	Once a week
(2) ATH section	Everyday
(3) X/Y-axis drive system	Once/2 weeks

1-needle machine does not have case linear.



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3. Lubrication

⚠ WARNING

During machine lubrication, turn OFF the power switch. You could sustain severe injuries due to being entangled by moving machine units.

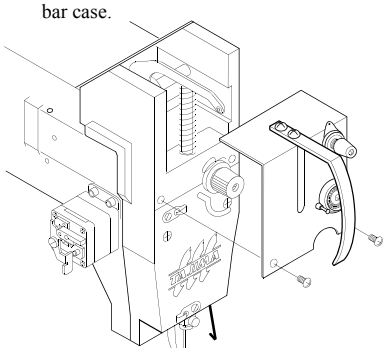
⚠ CAUTION

Keep the lubrication cycles as shown below. Deviated lubrication cycles could cause thread breakage.

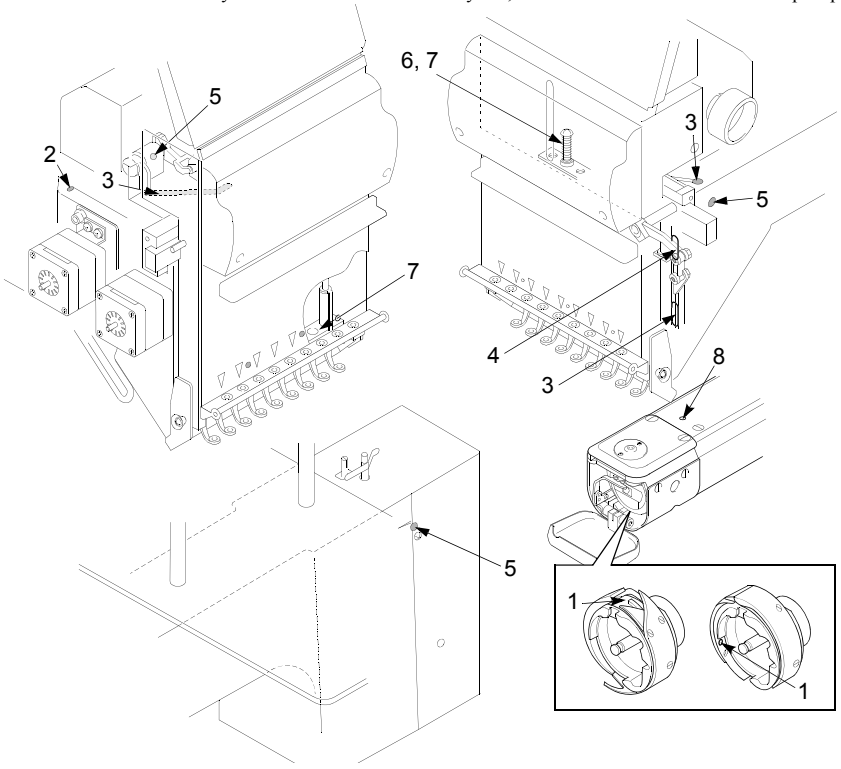
When supplying lubricating oil, use only Tajima's genuine TF oil or equivalent (#150 spindle oil: ISO viscosity grade=VG18).

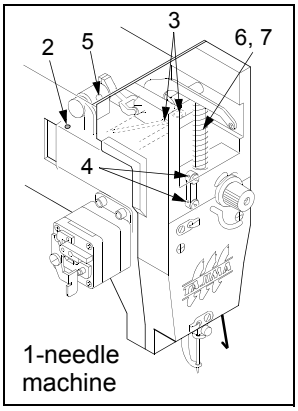
Lubrication points	Lubrication cycle
(1) Rail section of rotary hook	Every 3 to 4 hours of operation
(2) Drive shaft of presser foot reciprocator (3) Needle bar drive shaft	Once/day
(4) Presser foot drive shaft (5) Inside of the arm (6) Needle bar (7) Felt packing (needle bar)	Once/week
(8) Inside of the cylinder bed	Once/3 months

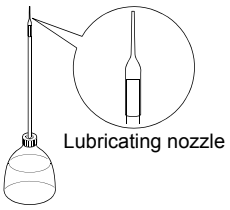
When performing lubrication to a 1-needle machine, detach the top cover of the needle bar case.



As the guidance persuading the operator to perform lubrication to the rail section of rotary hook, the machine has a function to display maintenance information on the operation panel. When the maintenance information is displayed, turn OFF the power switch and supply oil to the rail section of rotary hook. For other lubrication cycles, refer to the chart. Maintenance stop=> p.11-3







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4. Greasing

WARNING

During machine greasing, turn OFF the power switch. You could sustain severe injuries due to being entangles by moving machine units.

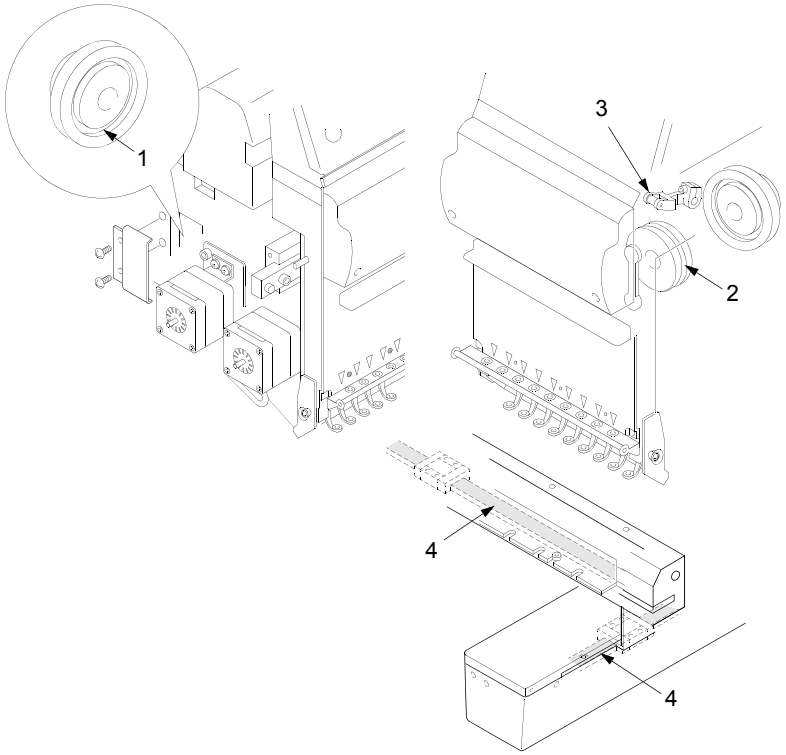
CAUTION

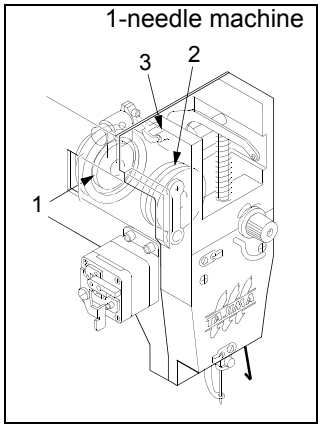
Please contact the distributor for further information about greasing.

Be sure to use the recommended commodity (mineral oil-based lithium grease) or the equivalent.

Greasing points	Greasing cycle
(1) Presser foot cam (2) Take-up lever drive cam (3) Roller of take-up lever	Once/3 months
(4) X/Y-axis drive system	Once/6 months

As the guidance persuading the operator to perform greasing, the machine has a function to display maintenance information on the operation panel. When the maintenance information is displayed, turn OFF the power switch and perform greasing to the specified spots. For other greasing, refer to the chart shown above.
Maintenance stop=> p.11-3





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5. Inspections

WARNING

During machine inspection, turn OFF the primary power supply. (Before disconnecting the primary power supply, turn OFF the power switch.) You could sustain severe injuries due to being entangled by moving machine units.

Inspection Point	Contents	Cycle
(1) Each belt of main shaft drive system	Tension and wear of belt, Existence of crack	Once/3 months
(2) Each belt of X/Y-axis drive system	Tension and wear of belt, Existence of crack	
(3) Rotating and sliding sections	Degree of wear	

6. Repair

WARNING

To prevent accidents resulting in injury or death and physical damage, the following must be observed when performing the repairs of the machine.

Before starting repair of the machine, be sure to disconnect the primary power supply to the machine and wait for 4 minutes. (Before disconnecting the primary power supply, turn OFF the power switch.) It takes 4 minutes until the machine becomes completely discharged.

If the machine needs repairs, the repairs must be done only by the service personnel assigned and trained by Tajima or qualified technician. (Consult the distributor.) Do not change the specification nor modify the parts of the machine. Such modification could risk the operational safety.

When restarting the machine after repairs, attach all covers, etc., which were removed for the repair operation.

CAUTION

For the machine repairs, use TAJIMA genuine parts for replacement.

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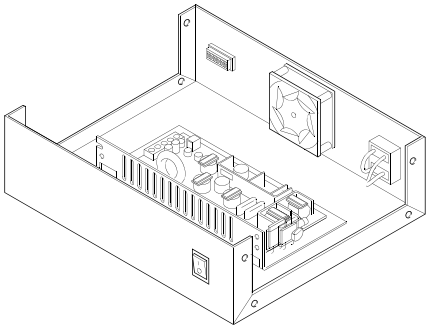
12. Electro-component parts



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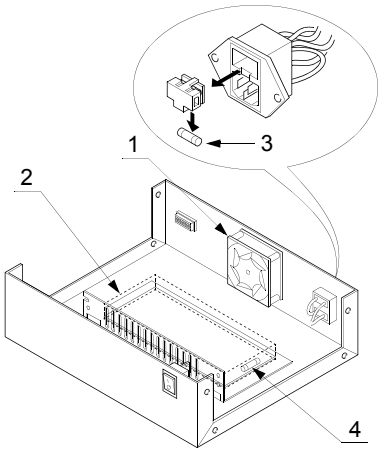
CAUTION

Do not block wind flow of the cooling fan.
Inside of the box will overheat to lead to breakdown.

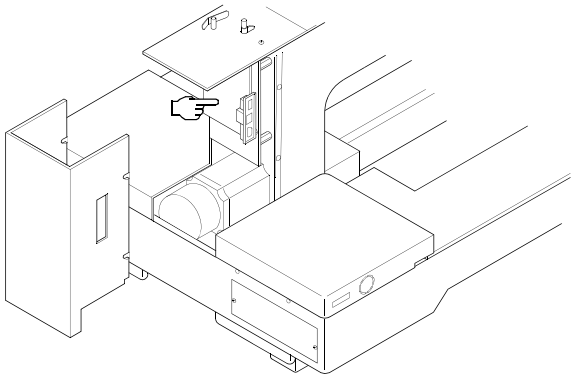
Power supply box

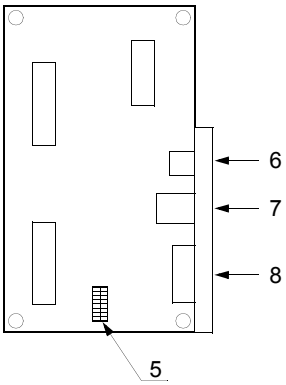
1: Cooling fan
2: DC power supply
3: Glass tube fuse (250 V/6.3 A) for AC power supply
4: Glass tube fuse (250 V/8 A) for AC power supply



Panel CPU card

5: DIP switch
6: USB port
7: LAN port
8: RS232C port





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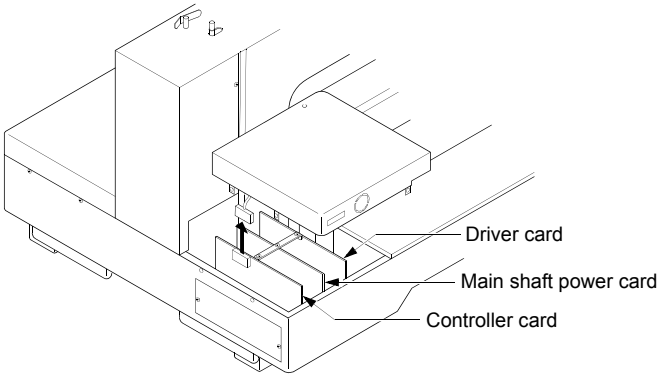
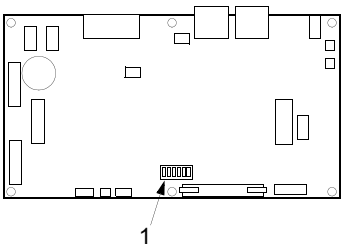


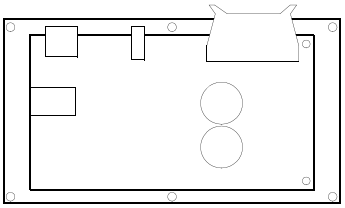
When you take off the cover, also disconnect the power supply harness from the controller card that is located at the cover.

Controller card

1: DIP switch



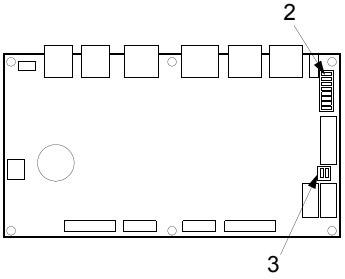
Main shaft power card



Driver card

2: DIP switch

3: DIP switch



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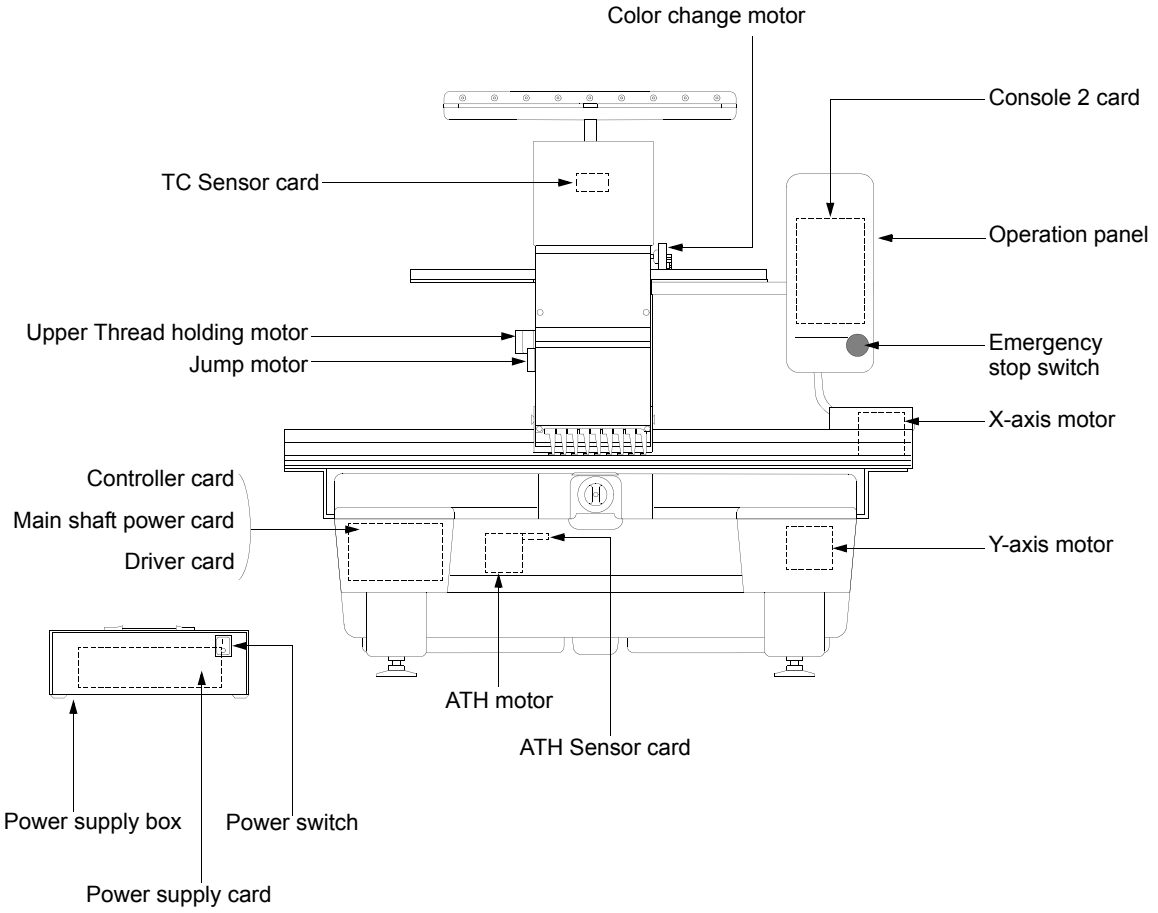
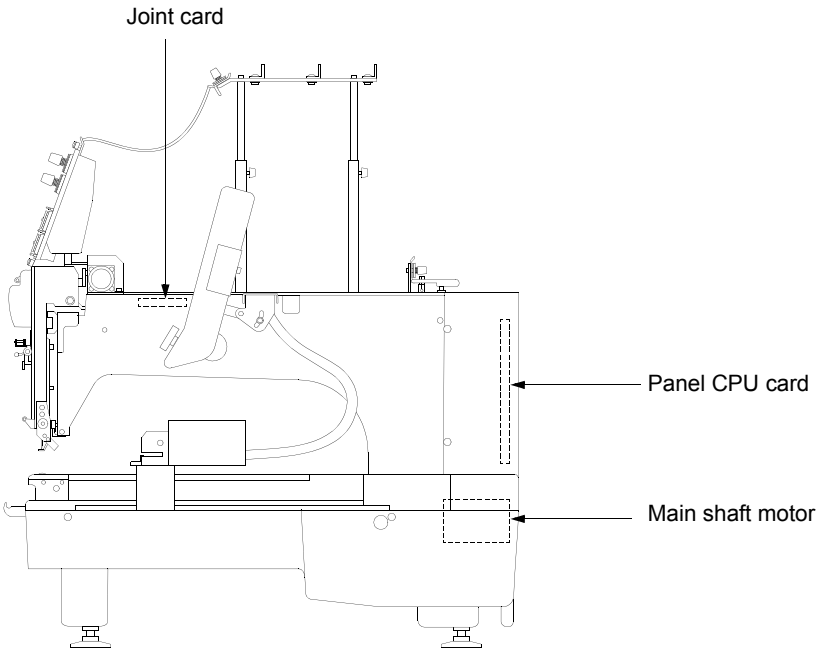
Layout Drawing of Electrical Parts





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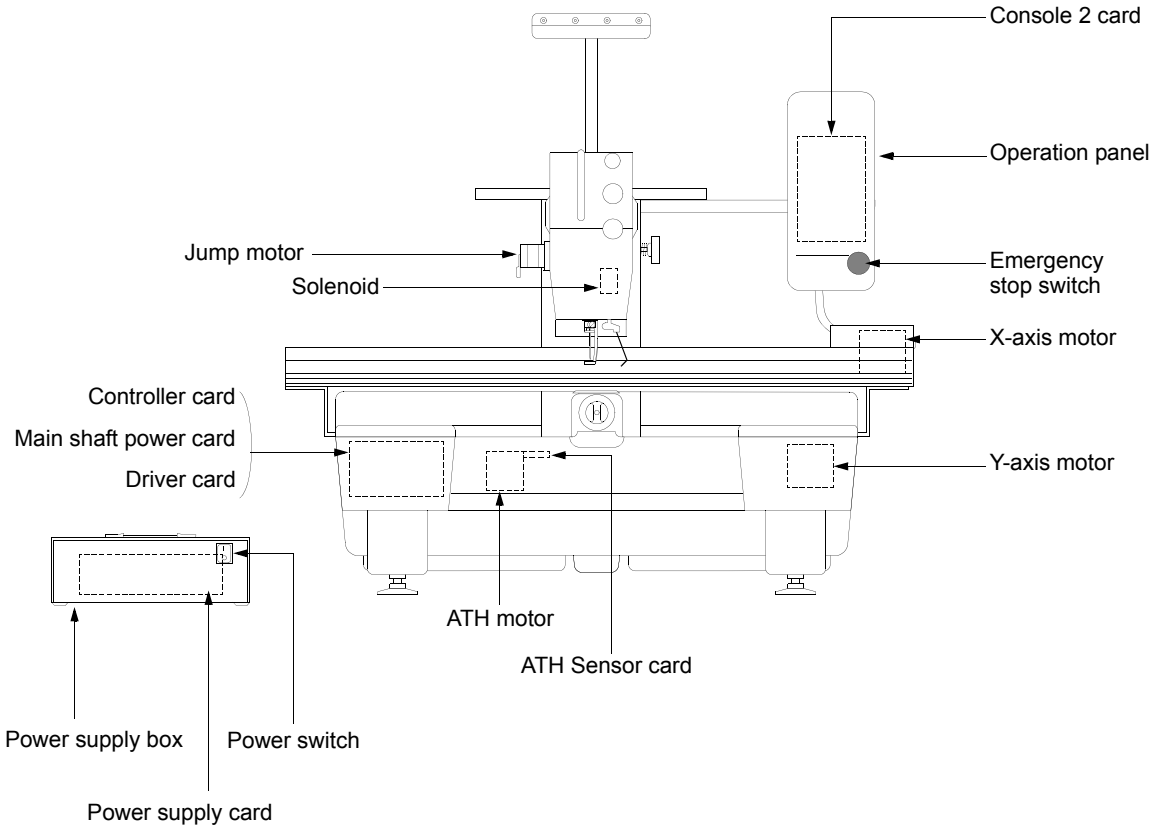
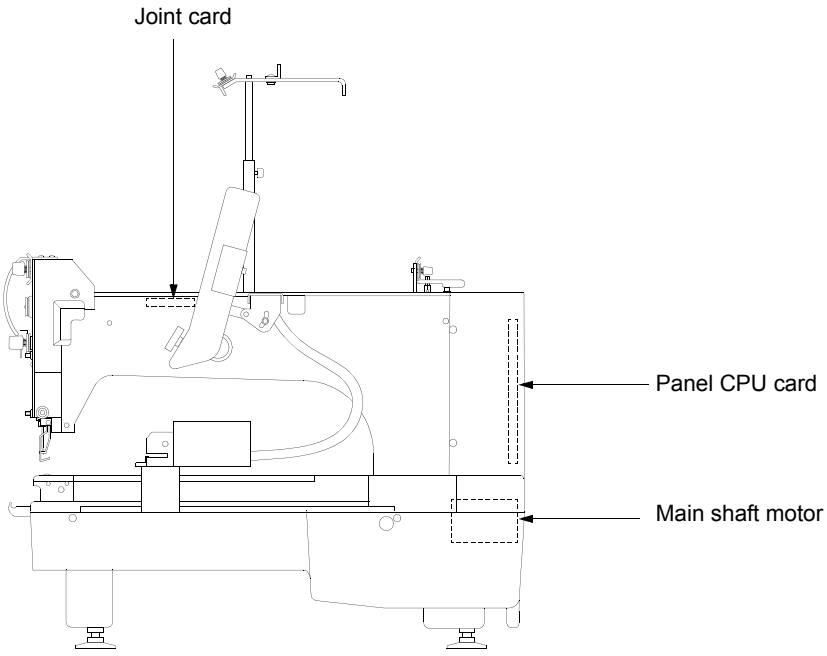
Layout Drawing of Electrical Parts (1-Needle Machine)





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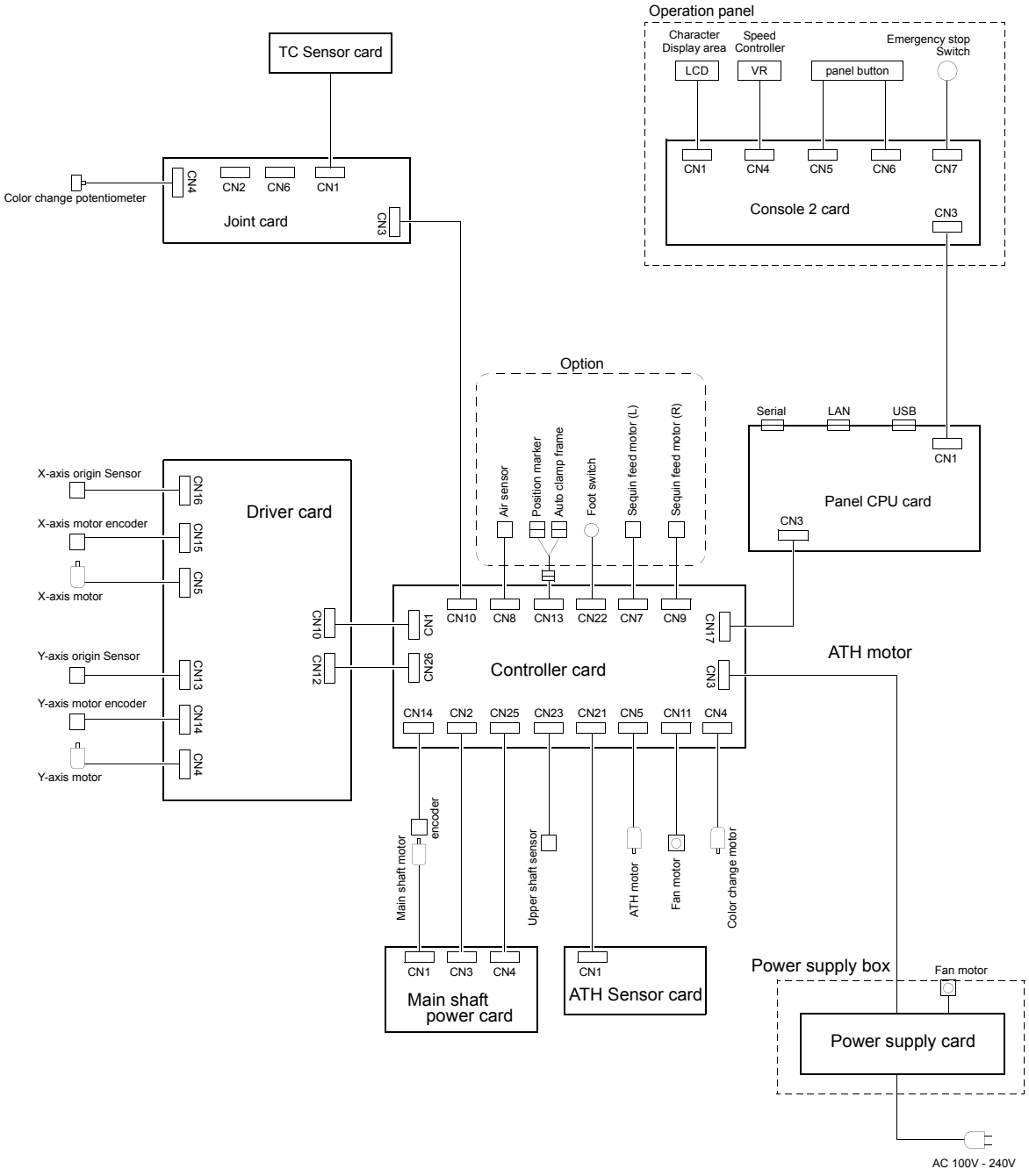
Electrical System Diagram

1-needle machine uses thread wipe solenoid instead of thread holding solenoid and it does not have color change motor and potentiometer.



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