



Thermal Digiplater



Users Manual



MITSUBISHI PAPER MILLS LIMITED

Introduction

Thank you for purchasing this THERMAL DIGIPLATER TDP-324 made by MITSUBISHI PAPER MILLS, LTD.

Read this manual carefully before using the Thermal Digiplater and become familiar with the installation and operation procedures.

Keep this user's manual at hand so that it can be referred to at any time during operation of the Thermal Digiplater.

This manual has been carefully prepared, however, if you find any mistakes, or have any questions, please let us know.

- If this manual is lost or damaged, promptly place an order for a new one from a distributor near you.
- If this Thermal Digiplater is transferred to another party, please attach this manual to the Thermal Digiplater.

After receiving this product, check that:

• It is the product that you ordered.

- It has not been damaged during shipping.
- All accessories are present.
- * If a damaged or abnormal part is found, contact the distributor immediately.

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Chapter 1 Safety Precautions

The purpose of this manual is to use this product safely.

Carefully read this manual and leaflets attached to the Thermal Digiplater and become familiar with the installation and operation procedures for safe use.

• This manual contains precautionary statements to prevent hazardous operations.

The statements are categorized as follows so that you can better understand all safety precautions for this Thermal Digiplater.

WARNING

Indicates a hazardous situation that could result in death or serious injury if the Thermal Digiplater is handled incorrectly.

Indicates a hazardous situation that could result in minor injury or property damage if the Thermal Digiplater is handled incorrectly.

Note

Indicates causes of problem or conditions of working environment.

It is impossible for us to anticipate all hazards that may occur when the Thermal Digiplater is installed and used under various environmental conditions. Therefore, all possible warnings and cautions are not included in the user's manual, other leaflets or labels on the Thermal Digiplater. Should the Thermal Digiplater be operated or inspected in any way other than as indicated in the

Should the Thermal Digiplater be operated or inspected in any way other than as indicated in the user's manual, you shall be responsible for the safety.

The precautionary notes on how to use and inspect the Thermal Digiplater indicated in the user's manual and other leaflets are intended only for when the Thermal Digiplater is used for its originally specified purpose.

Should the Thermal Digiplater be used for any purposes other than as intended in the user's manual, you shall be solely responsible for the safety.

• Never perform operations that are prohibited in the user's manual and other leaflets.

1.1 Cautions for working environment and installation

Pay attention to the following to use the Thermal Digiplater safely:

WARNING

Do not use the Thermal Digiplater in an environment with volatile substances, such as alcohol and thinner, or cumbustible gases.

WARNING

Do not put a vessel containing water, such as a vase, plant pot, cup, or any metallic article on this Thermal Digiplater. If water is spilt or a metallic piece enters the Thermal Digiplater, a fire or electric shock can occur.

Â

Δ

WARNING

Do not cover the vent holes of the Thermal Digiplater. Doing so will not allow the heat to escape from the Thermal Digiplater, thereby causing a fire.

WARNING

Do not insert or drop a metallic or flammable article inside through any vent hole. Doing so can cause a fire or electric shock.

WARNING

Provide an electric oulet at an accessible place near this product.

Ω

CAUTION

Make sure that children do not touch the Thermal Digiplater and cables. Failure to do so can result in injury or electric shock.

CAUTION

Do not install the Thermal Digiplater in damp, dusty or sandy places, such as a bathing place, a bathroom, near a hot spring, on a road or by the side of a pool. Doing so can cause a fire, electric shock or failure.

Do not install the Thermal Digiplater on a shaky stand, inclined floor or any other unstable place. If so, it can fall or turn over and cause personal injury.

Note

Do not install the Thermal Digiplater in an area with an extremely low or high temperature. Do not install it, for example, in an area of a ski site or skating rink with a low ambient temperature or in an outdoor area where it will be exposed to direct sunlight and heat.

1.2 Handling the Thermal Digiplater

Pay attention to the following warnings and caution when handling the Thermal Digiplater:

MARNING

Take the Thermal Digiplater out of the package and place it on a horizontal and stable table or desk.

WARNING

As it weighs approximately 55 kg(121 lbs), it is dangerous for a single person to try to hold or carry the Thermal Digiplater. When taking it out of the package, take care not to injure your fingers or hands.

WARNING

The Thermal Digiplater's center of gravity is at the front. Take care not to lose balance when carrying it. At least 2 persons are required to carry and install it.

WARNING

Use extreamly caution when carrying it on a slippery floor.

WARNING

If it is dropped and damaged, turn off the power switch on the main body, disconnect the power cable from the electric oulet and contact the distributor. If it is used without servicing, it can cause a fire or electric shock.

WARNING

Plug the power cable all the way into the electric oulet.

WARNING

The thermal head is heated while the Thermal Digiplater is operating. This is not an abnormal phenomenon. It is heated to a high temperature. Never touch it.

MARNING

If an abnormality occurs, take only the measures for the abnormalities described in this users manual. If normal operation cannot be recovered, contact the distributor from whom you bought it.

WARNING

Λ

Use only the power cable supplied with the Thermal Digiplater. Be sure to connect the power cable to the electric oulet to be grounded according to all relevant local regulations(resistance:less than 100 ohm). If a short circuit occurs while the Thermal Digiplater is operating without being grounded, a fire or electric shock can occur. In addition, radio and television reception can be affected. If the Thermal Digiplater cannot be grounded, consult the distributor.

Do not disconnect the power cable while data is being printed or transferred. Doing so can cause the Thermal Digiplater to break down.

Note

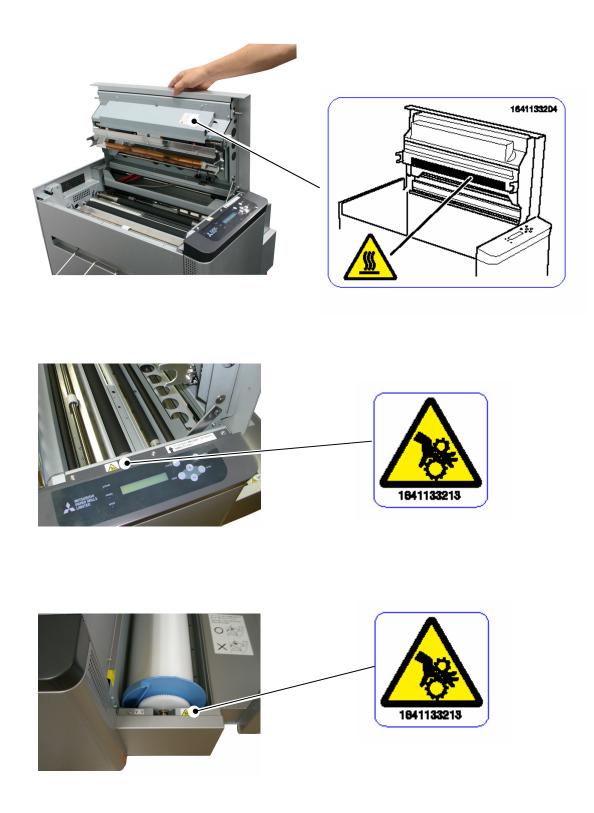
If you touch the surface of the thermal head directly with your hand, the head can be damaged. If hard particles, such as sand, enter the head, it can be damaged. Take care when handling the head.

Note

Use the USB cable supplied with the Thermal Digiplater to connect it to your computer when installing the Thermal Digiplater.

1.3 Kind of warning labels and its attachment part

The following warning labels are attached inside the Thermal Digiplater to prevent the accident and avoid the danger. If the label come off or can't be seen, contact the distributor from whom you bought it immediately.



1.4 Handling plate before and after platemaking

When handling plate, observe the following instructions:

Note

When handling plate before platemaking:

- Use plate specified by Mitsubishi Paper Mills, Ltd.
- Wrap the plate with the black polybag and avoid high temperature and high humidity, and store it in the cool and dark place.
 (at a temperature of 20°C/00° E) or leaven and a humidity of C0°/C EU or leaven
- (at a temperature of 30°C(86°F) or lower and a humidity of 60% RH or less)
 Do not touch the plate surface with your hand.

Finger prints can deteriorate the printing quality.

Note

When handling plate after platemaking:

- Store plates avoiding direct sunlight.
- Store plates away from organic solvents such as benzine, thinner and alcohol. In addition, avoid direct contact with hands.
 If the printed images come into contact with hands or any of these substances, discoloration can occur to the plates.

Chapter 2 Installation and Setup

2.1 Unpacking and setup procedure

This chapter explains procedures from unpacking to setting up the Thermal Digiplater. Be sure to read **Chapter 1 Safety Precautions** before proceeding to this chapter.

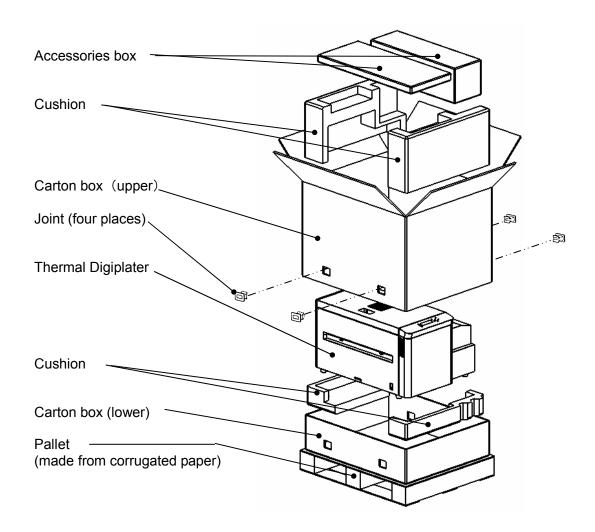
Perform the following to unpack and install:

- **1.** Open the box and take out the Thermal Digiplater and accessories.
- **2.** Check the names and functions of the Thermal Digiplater's parts.
- **3.** Take out the protective inserts.
- **4.** Connect the power cable.
- **5.** Connect the USB cable.
- **6.** Install the plate tray.
- **7.** Turn on the power switch.
- **8.** Set the spools to the plate and place the plate into the Thermal Digiplater.

2.2 Unpacking

First, unpack and check the contents.

The box contains the Thermal Digiplater, accessories and protective inserts. The accessories are: Spool, Flange, power cable, USB cable, plate tray, user's manual, the TDPController CD-ROM with the user's manual, Technical Guide, and Project warranty.



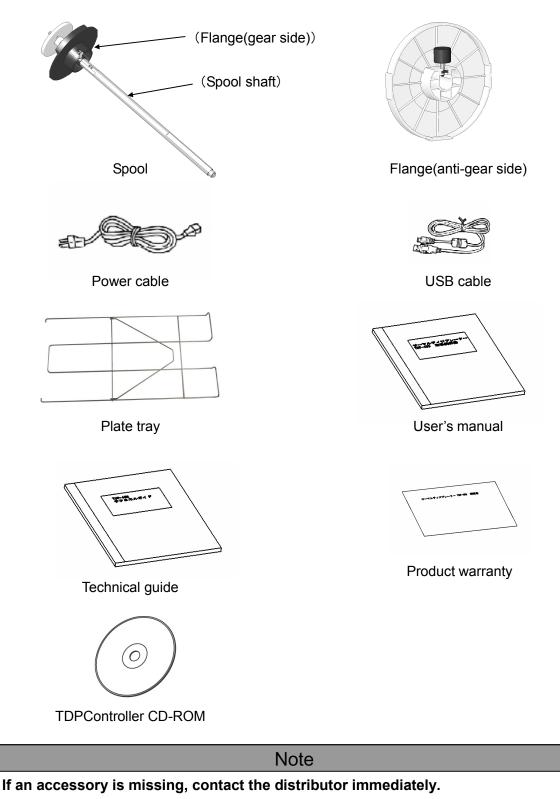
This Thermal Digiplater weighs approx. 55 kg(121 lbs). Take care when handling it. When taking out and carrying, securely hold it by its bottom.

Note

Do not discard the packaging materials. The box and protective inserts will be required to transfer or transport the Thermal Digiplater. Keep them in a safe place.

2.3 Checking the accessories

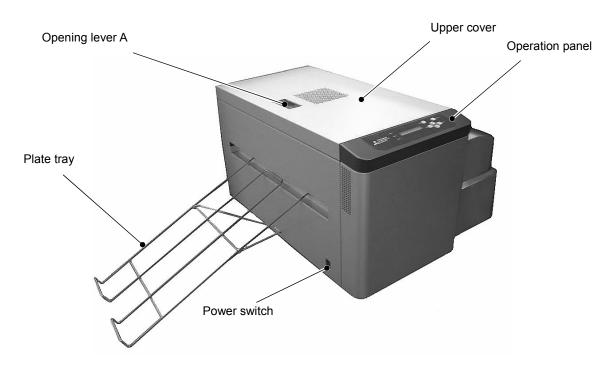
Take out the accessories from the box and from inside of the Thermal Digiplater. Check that the following items, as illustrated below, are present.



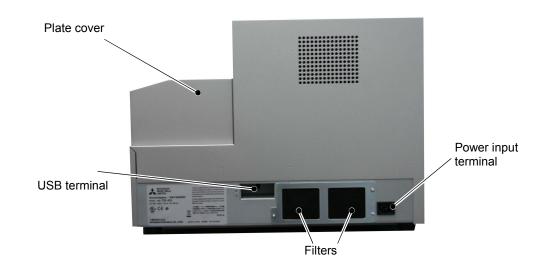
2.4 Names and functions of parts

2.4.1 Names of parts

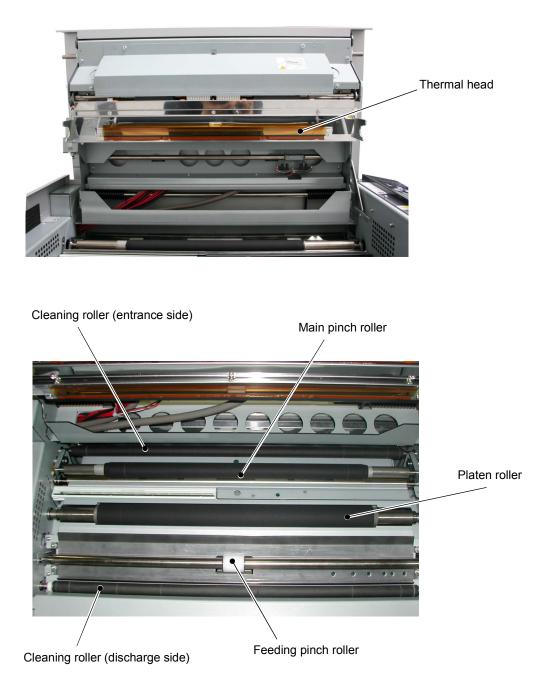
Front



Rear



■ Inside the Thermal Digiplater



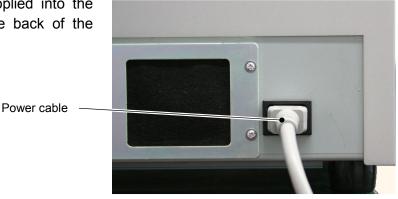
2.4.2 Functions of parts

Name	Function/Description
Upper cover	Open this cover when inspecting and cleaning the thermal head and the rollers such as the main pinch roller, the platen roller and so on, and when removing a jamming plate portion.
Operation panel	The operation buttons, LCD display (referred to as the LCD below) and status lamps are located here.
Power switch	Switch to turn the power to the Thermal Digiplater on or off. Pressing " " turns on the power while pressing "O" turns off the power. <caution> After turning off the power, turn on the power after a lapse of 3 seconds or more.</caution>
Power input terminal	Connect the power cable.
USB terminal	Connect the USB cable.
Thermal head	Add the heat to the plate and print. <caution> The head is heated to a high temperature while the Thermal Digiplater is operating. Do not touch. Touching it directly with your hand can cause failure.</caution>
Platen roller	Rubber roller to feed with plate.
Cleaning roller (Entrance and discharge sides)	Rubber rollers to remove dust and foreign matters from the plate surface. One installed at the entrance side and the other at the discharge side.
Filter	Prevent dust and foreign substances in air from entering inside the Thermal Digiplater.

2.5 Connecting the power cable

Connect the power cable by observing the following instructions:

1. Insert the power cable supplied into the power input terminal at the back of the Thermal Digiplater.



WARNING

Before connecting the power cable, make sure that the power switch is off.

A WARNING

Use only the power cable supplied with the product or a specified one. Be sure to connect the power cable to the electric outlet to be grounded according to all relevant local regulations(resistance:less than 100 ohm). If a short circuit occurs while the Thermal Digiplater is operating without being grounded, a fire or electric shock can occur. If the Thermal Digiplater cannot be grounded, consult the distributor.

WARNING

Plug the power cable all the way into the electric outlet. Failure to do so can cause a fire or failure.

WARNING

Do not connect or disconnect the power cable with wet hands. Doing so can cause an electric shock.

MARNING

Do not scratch, damage or rework the power cable. Do not put a heavy article on the cable. Do not pull or forcibly bend it. Doing so can damage the power cable and cause a fire or electric shock.

WARNING

When moving the Thermal Digiplater, disconnect the power cable from the electric outlet and make sure that all external connecting lines have been disconnected. If a cord is kept connected, it can be scratched, and a fire or electric shock can occur, or you can trip and be injured.

WARNING

If the Thermal Digiplater is not used for a long time, disconnect the power cable from the electric outlet for safety.

WARNING

Do not connect the power cable to an electric outlet to which other cords are connected. Requires a dedicated electric outlet. Doing so can cause a fire or electric shock.

2.6 Connecting the USB cable

1. Connect the USB cable connected to your PC to the USB terminal at the back of the Thermal Digiplater



USB cable _____ [Product compatible with USB 2.0 standard]

Thermal Digiplater side is a type B connector(square)



Note

Use only the USB cable supplied with the product or a specified one. If a cable other than the supplied cable is used, incorrect printing can result.

Before disconnecting the USB cable, make sure that the Thermal Digiplater is in the standby state. If disconnected during data transfer, the Thermal Digiplater can be damaged.

2.7 Installing the plate tray

WARNING

A plate cutter is installed inside the plate discharge port. Do not put fingers. Doing so can cause injure.

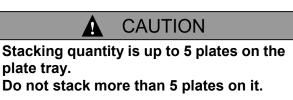
1. Insert one of the claws of the plate tray into the corresponding mounting hole for the plate tray.



2. While slightly widening the plate tray, insert the other claw into the other mounting hole.



3. Secure the tray by inserting the bottom of the stopper into the stopper slit.





2.8 Setting the plate

1. Turn on the power to the Thermal Digiplater.



- 2. Set the size of the plate to be installed on the operation panel. See 3.3.1 Selecting a plate size.
- 3. By holding the opening lever B, open the plate cover.

Note Do not open the plate cover extremely

quickly or forcibly 90 degrees or more.

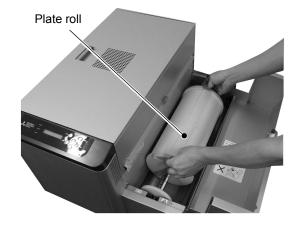


Plate cover

4. When there is any used plate, pull out the lead edge of the plate and lift up the plate with the spool, and take it out.

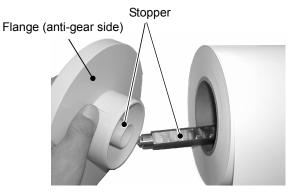
CAUTION A

The plate weighs approx. 10 kg(22 lbs). Handle it carefully so as not to drop it. Dropping it is dangerous.



- 5. Take out the new plate from the black polybag. CAUTION The plate weighs approx. 10 kg(22 lbs). Handle it carefully so as not to drop it. Dropping it is dangerous. 6. Change the flange(gear side) position of the spool according to the size of the plate to be used. Please refer to "2.9 The change method of flange position." Flange(gear side) 7. Insert the shaft of the spool into the core of Spool the plate and gently force the flange(gear (Flange(gear side)) side) of the spool on the side of the plate. Plate Work table [Useful tip] When inserting the shaft of the spool into the core of the plate, place the plate so that the lead edge of the winding plate is upward. Then, insert the shaft of the spool from the right-hand side. Lead edge of the winding plate The direction which inserts a shaft
 - As the outer diameter of the flange is larger than the outer diameter of the plate, it is recommended that this work is performed with the right-hand side of the plate protruding from the work table.

8. Install and fit the flange(anti-gear side) to the end of the shaft on the opposite side of the plate.



[Useful tip]

The flange (anti-gear side) has a stopper notch and the shaft has stopper notches to prevent empty rotation. Check the directions of the spool stopper notch and notches on the shaft to fit the spool correctly.

9. Tighten the screw to fix, forcing the flange (anti-gear side) on the side of the plate, and fix the flange (anti-gear side).





Do not tighten the screw too much. It may damage flange.

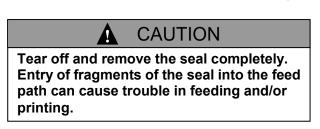
10. Install the plate by placing the spool into the plate box.

CAUTION

The plate weighs approx. 10 kg(22 lbs). Handle it carefully so as not to drop it. Dropping it is dangerous.

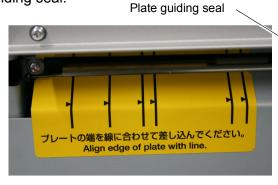


11. Remove the seal fixing the end of the plate.





12. Feed in the plate by hand, aligning the side edge of the plate with the line on the plate guiding seal.





LED

[Useful tip]

- When the end of the plate is inserted into the plate feeding port, the motor starts to operate to assist the feeding of the plate. The motor will stop when the plate setting is completed.
- When the plate setting is completed, the "NG" LED lamp goes off and "OK" LED lamp turns on.



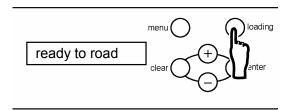
13. Slowly close the plate cover.

Be careful not to catch fingers when closing the plate cover.



Plate cover

14.Press the **loading** button on the operation panel.



[Useful tip]

If the size of the plate placed in this machine does not match the plate size set, the loading will not be completed correctly. If an error occurs, check the size of the actual plate and the plate size set on this machine. Then, install and set the correct plate.

15. Plate moves back and forth, and set the skew right. Then cut 2 plates with about 310mm(12.2inches) and discharge them forcibly.

• When loading button is pressed for more than 2 seconds, the plate is not cut off. Please refer to "3.2.2 Operation button".

2.9 Change Method of Flange Position

Please change the flange position of a spool according to the size of the plate to be used.

1. Loosen the screw which secures the flange. Turns in the direction of the illustration arrow, applying a finger to the knob part of the fixed screw.



2. Flange is set at the position corresponding to plate size.

Flange

- Please confirm the relation between plate size and a flange position using table on the right.
- Please unite the field of a flange inner side with the line described at the spool shaft.

Flange position	Plate width(inch)
1	324(12.75) 318(12.50)
no number	310(12.19) 305(12.00)
A	292(11.5) 286(11.25) 279(11.00)

 On spool shaft, there are indications of 2 to 5 and B, however these are not used in this product (TDP-324)

The field of a flange inner side meets with a line. **Example**: When setting to flange position "2" The line on the left-hand side of number "2" and the field of a flange inner side should line up.

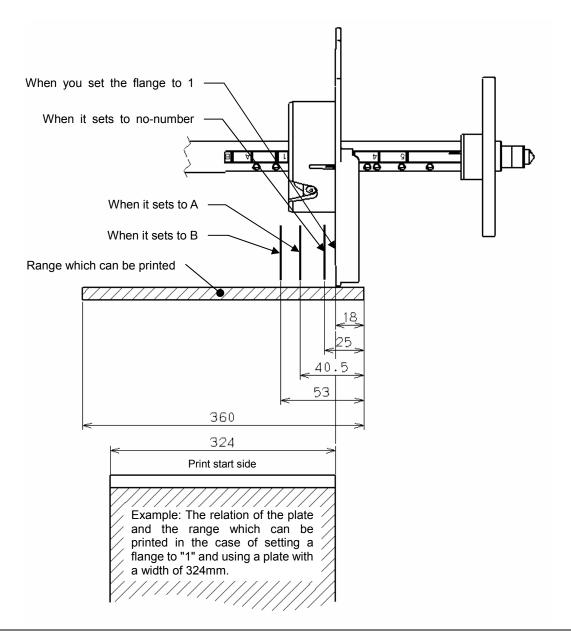
Spool shaft

- **3.** Tighten the screw and fix flange.
 - •Turns in the direction of the illustration arrow,
 - applying a finger to the knob part of a fixed screw.
 - •Please fasten securely, turning until the screw stops.



(Flange set position and the relation of the range which can be printed)

Relation between flange set position and print area is shown on diagram below. Please confirm the print area before generating print data.

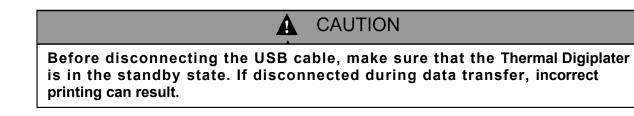


Chapter 3 Use of Operation Panel

3.1 Power switch

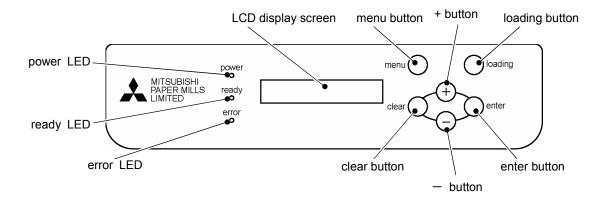
The power switch is located on the left side surface of this machine. Pressing the upper side ("l") turns on the power while pressing the lower side ("O") turns off the power.





3.2 Operation panel

The buttons, LED lamps and LCD on the operation panel are explained below.



3.2.1 LED indications

LED indications are shown in the following table.

Name	Indicated color	Description
power LED	Orange	This lamp is on when the power is on.
ready LED	Green	This lamp is on when the Thermal Digiplater is ready for printing.
error LED	Red	This lamp is on when an abnormality occurs in the Thermal Digiplater. Also, this is on druing "Initializing" and "booting up".

3.2.2 Operation button

The functions of the operation buttons are shown in the following table.

Name	Function
	Use this button to set a plate.
	1. When this button is pressed at Ready state, the plate is fed for a certain length
loading button	of plate and cut off, then it is set at the set position.
	2. When this button is pressed for more than 2 seconds at Ready state, the plate
	is fed for a certain length of plate, and set at the set position.
menu button	Use this button to select from the menu.
enter button	Use this button to save an operation or a setting to be executed in the user mode.
clear button	Use this button to exit the currently selected menu item in the user mode.
+ button	Use this button to select an item from the menu in the user mode.
- button	Use this button to select an item from the menu in the user mode.

3.2.3 LCD indications

The LCD shows the Thermal Digiplater status as shown in the following table.

*: The following chart is the list of display in Millimeter Mode (factory setting). In case of Inch Mode (factory setting), some display may differ. Please refer to the next page for details.

Data shown	on the LCD	Description	
English	Japanese	Description	
Initializing	ショキカチュウ	The Thermal Digiplater is being initialized.	
Booting up	<u>ቶ</u> ኑ ሳ ን ፯ሳ	The firmware is being started.	
In the case of the plate re	maining swittch on	The Thermal Digiplater is ready for printing.	
□□□ □□□×□□□ □□m *1 *2 *3	□□□ □□□×□□□ □□m *1 *2 *3	 *1. Selected plate size channel number is displayed. eg. Custom channel: C01 Free mode channel: F01 *2. Set plate name (size) is displayed. *3. The remaining length(m) of the plate set in the Thermal Digiplater is displayed. 	
In the case of the plate rema	ining swittch off	The Thermal Digiplater is ready for printing.	
1 *2	□□□ □□□×□□□ *1 *2	 *1. Selected plate size channel number is displayed. eg. Custom channel: C01 Free mode channel: F01 *2. Set plate name (size) is displayed. 	
Ready to load	ローデ゛ィンク゛ シテクタ゛ サイ	The Thermal Digiplater is ready for plate loading as the plate has been set.	
Receiving	データ ジュシンチュウ	Data is being received.	
Printing	プリント チュウ	The Thermal Digiplater is in printing operation.	
Cooling Down	^yド レイキャクチュウ	The thermal head is being cooled. Printing is temporarily suspended until the thermal head has cooled down.	
Warming Up	ヘット゛ カオンチュウ	The thermal head is being preheated. Printing is temporarily suspended until the thermal head has warmed up.	
Plate Loading	プレート ロードチュウ	Plate is being loaded.	
Plate Reloading	プレート サイロードチュウ	The end of the plate is being fed to the standby position.	
Data Creating	データ テンカイチュウ	Test print data is being generated.	

*: In case of Inch Mode (factory setting), print status is shown as follows.

Data showr	on the LCD	Description
English	Japanese	Description
In the case of the plate representation $\frac{1}{1}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{3}$	maining swittch on	 The Thermal Digiplater is ready for printing. *1. Selected plate size channel number is displayed. eg. Custom channel: C01 Free mode channel: F01 *2. Set plate name (size) is displayed. *3. The remaining length of the plate set in the Thermal Digiplater is displayed in feet. (unit is omitted)
In the case of the plate representation of the plate repre	maining swittch off	 The Thermal Digiplater is ready for printing. *1. Selected plate size channel number is displayed. eg. Custom channel: C01 Free mode channel: F01 *4. Set plate name (size) is displayed.

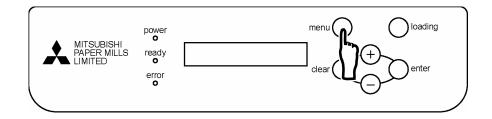
3.3 Explanation of the user mode

In the user mode, the following are possible:

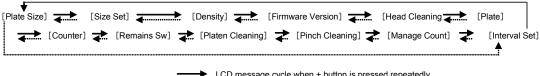
LCD in	dications	Description	
English	Japanese	Description	
Plate Size	プレート サイス゛	Select a plate size channel.	
Size Set	サイス゛ セッテイ	Set a plate size.	
Density	Density	Adjust the density of print.(-20% to +40% in increments of 1%)	
Firmware Version	Firmware Version	The firmware version can be checked.	
Head Cleaning	ヘット゛ クリーニンク゛	Execute thermal head cleaning. Set thermal cleaning mode.	
Plate	プレート	Display plate remains, and resets plate remains counter.	
Counter	カウンタ	Display print count, and resets print counter.	
Remains Sw	サ ンリョウ スイッチ	Set on or off for display of plate remains.	
Platen Cleaning	プラテン クリーニング	Execute platen cleaning.	
Pinch Cleaning	ヒ゜ンチ クリーニンク゛	Execute pinch cleaning and sets cleaning mode.	
Manage Count	マネーシ゛カウント	Display accumulated print distance. This message is displayed only when Manage Count Sw is set at ON (factory setting).	
Interval Set	インターハ゛ル セッテイ	Set a plate number that you want to stop printing (Thermal head maintenance purpose)	

Items available in the user mode

1. To switch to the user mode, press the **menu** button in the ready state.



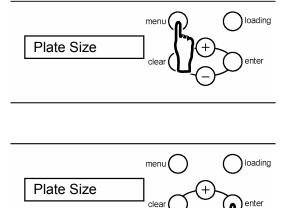
2. Pressing the + or - button repeatedly changes the menu item available. The message shown on the LCD will change as show in below.



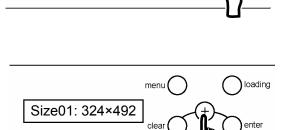
LCD message cycle when + button is pressed repeatedly LCD message cycle when - button is pressed repeatedly

3.3.1 Selecting a plate size channel

1. In the ready state, press the **menu** button and display "Plate Size" on the LCD.



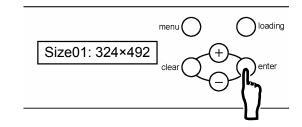
2. Press the **enter** button to select the operation for changing the plate size channel.



- **3.** Press the **+** or **-** button to display a different plate size channel.
 - In case of Inch Mode, it will be shown in inches, as shown below.

[Size01:12.7×19.3]

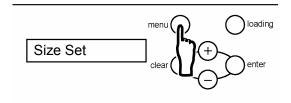
4. Press the **enter** button to select the desired plate size channel.



5. Press the **clear** button repeatedly until the ready state is displayed.

3.3.2 Setting the plate size

 In the ready state, press the menu button once, press the + button once, and display "Size Set" on the LCD.



men

CSize01: 310x150

CSize05: 310x150

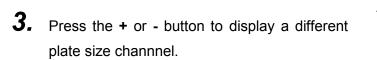
loading

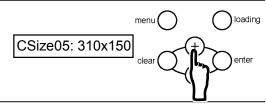
ente

loading

enter

2. Press the **enter** button to select the operation for selecting a plate size channel.

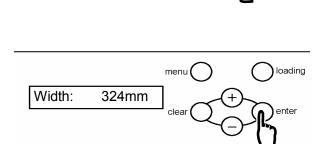




4. Press the **enter** button to select the desired plate size.

CSize xx: Custom size channels (10) FSize xx: Free-mode channlel (5)

- **5.** Press the **enter** button to select the plate width.
 - In case of Millimeter Mode, it can be selected from 8 types as shown below.
 254^{*},279,286,292,305,310,318,324(mm)
 - In case of Inch Mode, it can be selected from 8 types as shown below.
 10.00^{*},11.00,11.25,11.5,12.00,12.19,12.50,
 12.75(inch)

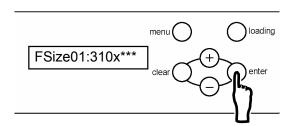


menu

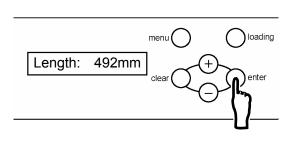
- The size, 254mm(10.00 inch), isn't available on TDP-324 though you choose it.
- The size, 254mm(10.00) is only available at the specific model, **TDP-324B**.

6. If you set a plate size for a free-mode channel, this set up is finished. Press the clear button repeatedly until the ready state is displayed.
If you set a plate size for a custom

mode channel, please move to "step 7".



- **7.** Press the **enter** button to confirm the width setting. Then, set a plate length.
 - In case of Millimeter Mode
 It can be set from 150mm to 530mm in increments of 1mm.



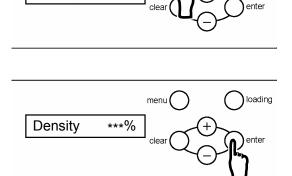
• In case of Inch Mode It can be set from 5.91 inches to 20.87 inches, In increments of 1/100 inch.

[Useful tip]

- To change values, use the following buttons:
- In case of Millimeter Mode menu button: Increment the number by 10
 + button: Increment the number by 1
 loading button: Decrement the number by 10
 - button: Decrement the number by 1
- In case of Inch Mode menu button: 2-digit integral part is incremented by 10.
 loading button:2-digit integral part is decremented by 10.
 + button:2-digit decimal number area is incremented by 1.
 button: 2 digit decimal part decremented by 1.
 - button: 2-digit decimal part decremented by 1.
- **8.** Press the enter button to confirm the length setting.
- **9.** Press the **clear** button repeatedly until the ready state is displayed.

3.3.3 Adjusting the print density

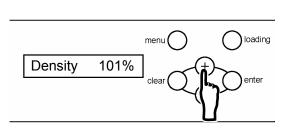
- **1.** In the ready state, press the **menu** button once, press the **+** button until "Density" displays on the LCD.
- **2.** Press the **enter** button to select the operation for adjusting the print density.



menu

loading

3. Change the print density by pressing the **+** or **-** button.

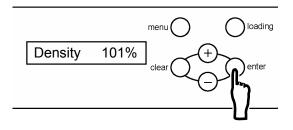


[Useful tip]

The density can be adjusted within -20% to +40%, in increments of 1%.

Density

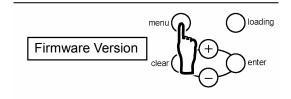
4. Press the **enter** button to confirm the changed density.



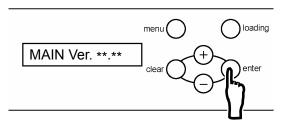
5. Press the **clear** button repeatedly until the ready state is displayed.

3.3.4 Checking the firmware versions

1. In the ready state, press the **menu** button once, press the **+** button until "Firmware Version" displays on the LCD.



2. Press the **enter** button to select the operation for checking firmware versions.



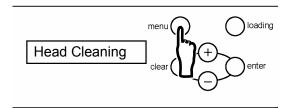
- **3.** Press the + or button to display another firmware version.
- TABLE Ver. **.**
- **4.** Press the **clear** button repeatedly until the ready state is displayed.

3.3.5 Setting the Head Cleaning Mode and Execution of Head Cleaning

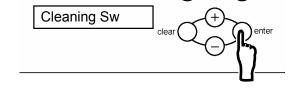
Setup of the automatic cleaning mode(ON/OFF)

The automatic cleaning mode(ON/OFF) is set as follows. When it is set at ON, the automatic head cleaning is executed every time before printing.

 In the ready state, press the menu button once, press the + button until display "Head Cleaning" on the LCD.

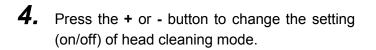


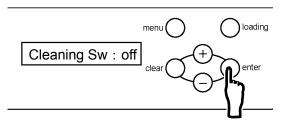
2. Press the **enter** button to select the operation for setting the Cleaning mode.

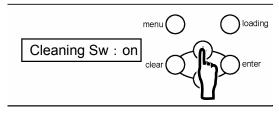


menu

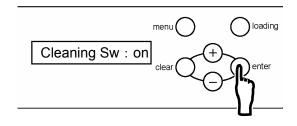
3. Press the **enter** button, and display the setting state (on/off) of head cleaning mode.







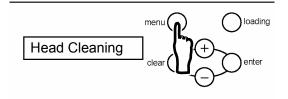
- **5.** Press the **enter** button to confirm the setting (normal/Special) of head cleaning mode.
- **6.** Press the **clear** button repeatedly until the ready state is displayed.



Setup of the head cleaning mode (Normal/Special)

Select a head cleaning mode (normal mode / special mode)

- Normal Mode: Black bar with setup length is printed.
- Special Mode: Black bar is printed in the blank area at the top of the printed plate.
- In the ready state, press the menu button once, press the + button until "Head Cleaning" displays on the LCD.



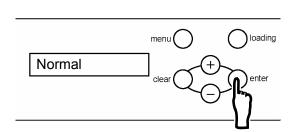
menul

Cleaning mode

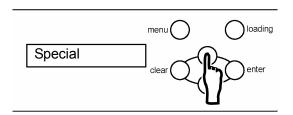
loading

enter

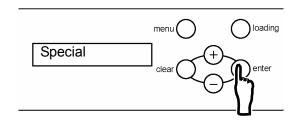
- 2. Press the enter button once, press the + button until "Cleaning mode" displays on the LCD.
- **3.** Press the **enter** button, and display the setting state (Normal/Special) of head cleaning mode.



4. Press the **+** or **-** button to change the setting (Normal/Special) of head cleaning mode.



5. Press the **enter** button to select the operation for setting the state (Normal/Special) of head cleaning mode.

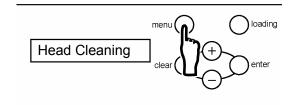


Chapter 3 Use of Operation Panel

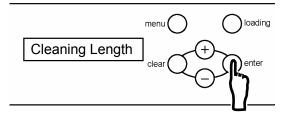
Setup of the cleaning length (Normal mode)

The length of the black bar printed at the time of head cleaning(Normal mode) execution is changed as follows.

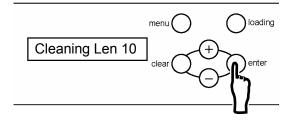
 In the ready state, press the menu button once, press the + button until "Head Cleaning" displays on the LCD.



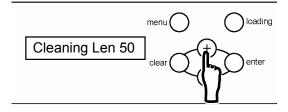
2. Press the enter button once, press the + button once, and display "Cleaning Length" on the LCD.



3. Press the **enter** button, and display the setting state of cleaning length.



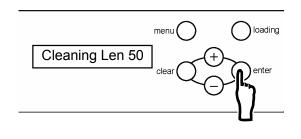
4. Press the + or - button to change the setting of the cleaning length.



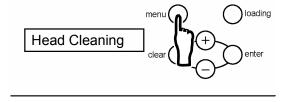
【Useful tip】

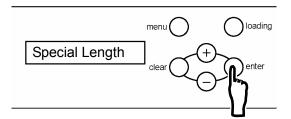
It can be set from 10mm to 50mm, **in increments of 1mm**. When the setting value is enlarged, the effect of head cleaning becomes large, but cleaning time becomes long.

5. Press the **enter** button to confirm the setting of the special length.

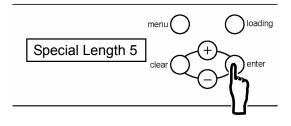


- Setup of the cleaning length (Special mode) The length of the black bar printed at the time of head cleaning(Special mode) execution is changed as follows.
- In the ready state, press the menu button once, press the + button until "Head Cleaning" displays on the LCD.
- 2. Press the enter button once, press the + button until "Special Length" displays on the LCD.

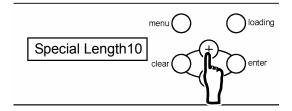




3. Press the **enter** button, and display the setting state of special length.



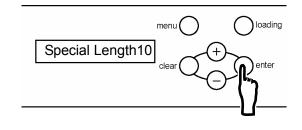
4. Press the + or - button to change the setting of the special length.



【Useful tip】

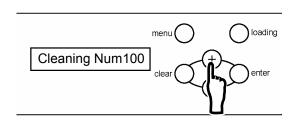
It can be set from 5mm to 10mm, **it increments of 1mm**. When the setting value is enlarged, the effect of head cleaning becomes large, but cleaning time becomes long.

5. Press the **enter** button to confirm the setting of the special length.



Chapter 3 Use of Operation Panel

- Setup of head cleaning interval Set the interval for head cleaning.
- **1.** In the ready state, press the **menu** button once, press the **+** button until "Head Cleaning" displays on the LCD.
- 2. Press the enter button once, press the + button until "Cleaning Num" displays on the LCD.
- **3.** Press the **enter** button, and display the setting state of cleaning interval.
- **4.** Press the + or button to change the setting of cleaning interval.



loading

enter

loading

enter

loading

enter

menui

menu

menu

Head Cleaning

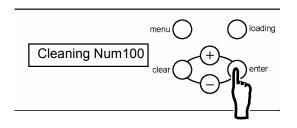
Cleaning Num

Cleaning Num 1

[Useful tip]

It can be set from 1 to 100 in increments of 1. When "1" is selected, the head cleaning is executed every time. When "100" is selected, the head cleaning is executed every 100 prints.

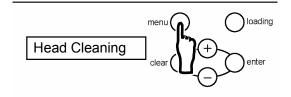
5. Press the **enter** button to confirm the setting of cleaning interval.



Execution of head cleaning

Head cleaning is executed. (Black bar with setup length is printed and discharged) as follows.

- * Cleaning length at Normal Mode is applied.
- **1.** In the ready state, press the **menu** button once, press the **+** button until "Head Cleaning" displays on the LCD.



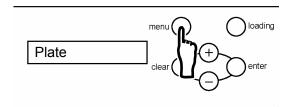
- **2.** Press the **enter** button once, press the **+** button until "Cleaning" displays on the LCD.
- **3.** Press the **enter** button to execute head cleaning.
- Cleaning menu loading clear menu loading menu loading clear clear clear menu loading menu loading menu loading
- **4.** Press the **clear** button repeatedly until the ready state is displayed.

3.3.6 Display of Plate Remains, and Reset of Plate Remains Counter

Display of plate remains and reset of plate remains counter are executed as follows. When reset is executed, plate remains counter is 75m or 246ft at the time of brand-new plate, and printed length is subtracted in increments of 1m or 1ft until reset is executed next time.

Plate

1. In the ready state, press the **menu** button once, press the **+** button until "Plate" displays on the LCD.



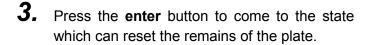
menu

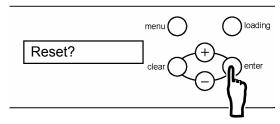
 $\Box\Box m$

loading

enter

2. Press the **enter** button, and display the remains of the plate.



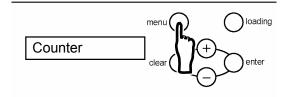


- **4.** Press the **enter** button to reset the remains of the plate.
 - *. Press the **clear** button when not resetting.
 - In case of Feet Mode, it will be shown in feets, as shown, [Plate 246 ft]
- Plate 75m
- **5.** Press the **clear** button repeatedly until the ready state is displayed.

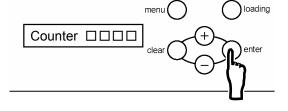
3.3.7 Display of Print Counter, and Reset of Print Counter

Display of print counter and reset of print counter are executed as follows. Where reset is executed, print counter is $\lceil 0 \rfloor$, and the number of the printed plates is added until reset is executed next time.

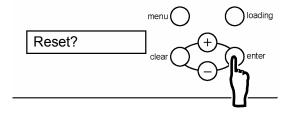
1. In the ready state, press the **menu** button once, press the **+** button until "Counter" displays on the LCD.



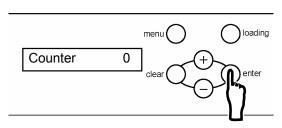
2. Press the **enter** button, and display the print counter.



3. Press the **enter** button to come to the state which can reset print counter.

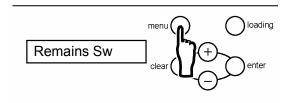


4. Press the **enter** button to reset print counter. * Press the **clear** button when not resetting.

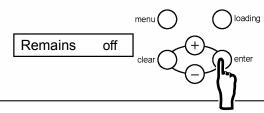


3.3.8 Setup of Plate Remains SW(on/off)

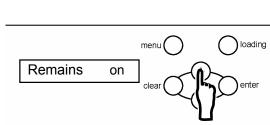
1. In the ready state, press the **menu** button once, press the **+** button until "Remains Sw" displays on the LCD.



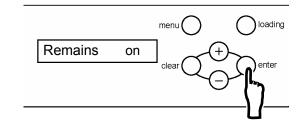
2. Press the enter button, and display the setting state (on/off) of "Remains SW".



3. Press the + or - button to change the state (on/off) of "Remains SW".



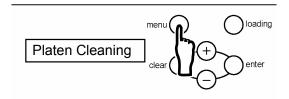
4. Press the **enter** button to confirm the setting of "Remains SW.



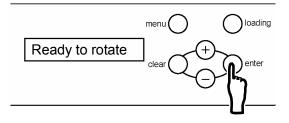
3.3.9 Execution of Platen Cleaning

Please use this mode when you clean-up a platen roller. Please refer to Chapter 4 about the cleaning method of the platen roller.

1. In the ready state, press the **menu** button once, press the + botton until "Platen cleaning" displays on the LCD.

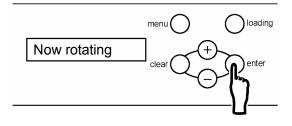


2. Press the **enter** button to select the operation for platen cleaning mode.



3. After closing Upper cover, press the enter button once, and a platen roller rotates 60 degrees.

If you want to clean up a entire roller, please repeat this 6 times.



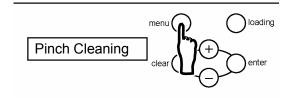
3.3.10 Setting the Pinch Cleaning Mode and Execution of Pinch Cleaning

This mode is used when pinch roller is cleaned. After black bar with setup length is repeatedly printed at setup number of times, a plate feed for cleaning is executed. At setup number of times, and printed plate with black bar is cut and discharged.

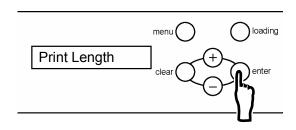
Setting the print length of black bar

Set up the print length of black bar print for pinch cleaning.

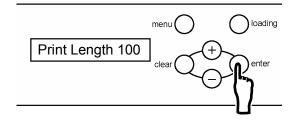
1. In the ready state, press the **menu** button once, press the **+** button until "Pinch Cleaning" displays on the LCD.



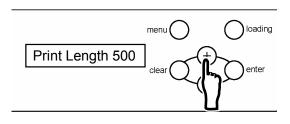
2. Press the **enter** button, and display "Print Length" on the LCD.



3. Press the **enter** button, and display the setting state of print length.

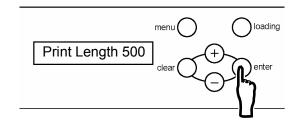


4. Press the + or - button to change the setting of the print length.

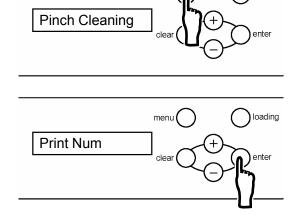


[Useful tip]

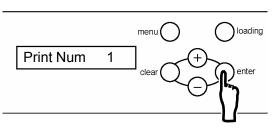
It can be set from 100mm to 500mm, **in increments of 1mm**. When the setting value is enlarged, the effect of head cleaning becomes large, but cleaning time becomes long. **5.** Press the **enter** button to confirm the setting of the print length.



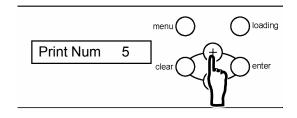
- **6.** Press the **clear** button repeatedly until the ready state is displayed.
- Setting the number of times for black bar print Set the number of times to print black bar for pinch cleaning.
- **1.** In the ready state, press the **menu** button once, press the **+** button until "Pinch Cleaning" displays on the LCD.
- 2. Press the enter button once, press the + button once, and display "Print Num" on the LCD.



3. Press the **enter** button, and display the setting state of print number.



4. Press the **+** or **-** button to change the setting of the print number.

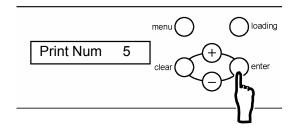


[Useful tip]

It can be set from 1 to 5, **in increments of 1**. When the setting value is enlarged, the effect of head cleaning becomes large, but cleaning time becomes long.

loading

5. Press the **enter** button to confirm the setting of the print number.



menu

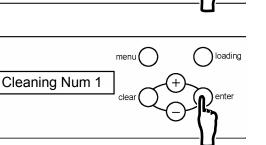
menu

dea

Pinch Cleaning

Cleaning Nm

- **6.** Press the **clear** button repeatedly until the ready state is displayed.
- Setting the number of times for cleaning Set up the number of times for cleaning (plate feed).
- **1.** In the ready state, press the **menu** button once, press the **+** button until "Pinch Cleaning" displays on the LCD.
- 2. Press the enter button once, press the + button until "Cleaning Num" displays on the LCD.
- **3.** Press the **enter** button, and display the setting state of cleaning number.



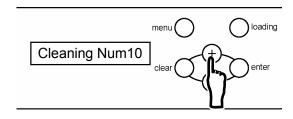
loading

enter

loading

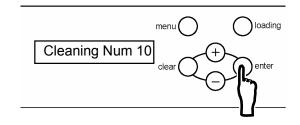
enter

4. Press the + or - button to change the setting of the cleaning number.

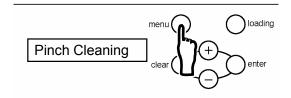


【Useful tip】

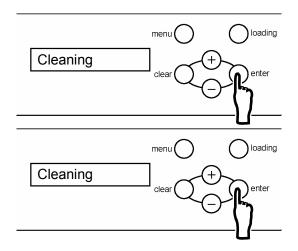
It can be set from 1 to 10, **in increments of 1**. When the setting value is enlarged, the effect of head cleaning becomes large, but cleaning time becomes long. **5.** Press the **enter** button to confirm the setting of the cleaning number.



- **6.** Press the **clear** button repeatedly until the ready state is displayed.
- Execution of Pinch cleaning Pinch cleaning is executed.
- **1.** In the ready state, press the **menu** button once, press the **+** button until "Pinch Cleaning" displays on the LCD.



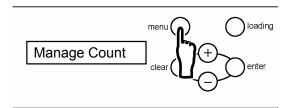
- **2.** Press the **enter** button once, press the **+** button until "Cleaning" displays on the LCD.
- **3.** Press the **enter** button to execute head cleaning.
- **4.** Press the **clear** button repeatedly until the ready state is displayed.



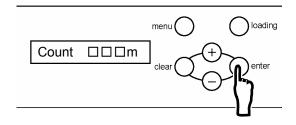
3.3.11 Display of accumulated print distance

Displays accumulated print distance. This message is displayed only when Manage Count Sw is set at ON (factory setting).

 In the ready state, press the menu button once, press the + button until "Manage Count" displays on the LCD.



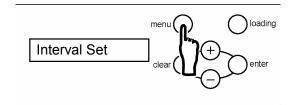
- **2.** Press the **enter** button to display "Manage Count"(accumulated print distance).
 - In case of Millimeter mode, accumulated print distance is shown in meter.
 - In case of Inch mode, accumulated print distance is shown in feet. (unit is omitted)
- **3.** Press the **clear** button repeatedly until the ready state is displayed.



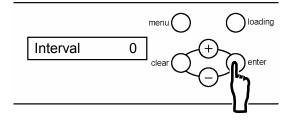
3.3.12 Set up a print Interval

Printing is interrupted at the number that you input in this mode for cleaning a thermal head.

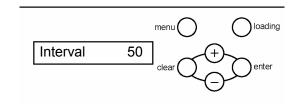
- The counter is reset automatically after you power down a machine even if print jobs don't reach the number that you input.
- When print jobs reach the number that you input, "Restart" is displayed on the LCD. Then you need to press a enter button to reset the counter.
- In the ready state, press the menu button once, press the + button until "Interval Set" displays on the LCD.



- **2.** Press the **enter** button to display a setting state of "Interval Set".
 - default setting is 0 (disable this mode)



3. Press the **enter** button after input Interval setting.



[Useful tip]

It can be set from 10 times to 500 times in increments of 10 times. To change values, use the following buttons: **menu** button: Increment the number by 100, + button: Increment the number by 10 **loading** button: Decrement the number by 100, - button: Decrement the number by 10

(MEMO)

Chapter 4 Daily Maintenance

4.1 Cleaning the parts inside the Thermal Digiplater

To keep the best print quality, clean the thermal head, image sensor, head-position plate, platen roller, cleaning rollers, the main pinch roller and the feeding pinch roller by following the steps as instructed below. Please clean them at the following frequency.

• Every day after finishing whole jobs Thermal head

Image with many halftone does is apt to get it dirty, and there sometimes needs to be cleaned several times a day.

- Once a week
 Main pinch roller
 Platen roller
 Feeding roller
 Cleaning rollers
- Once a month
 Image sensor
 Head-position plate

4.1.1 Cleaning the thermal head

7. By holding the opening lever A on the top of the upper cover, open the upper cover. Opening lever A

 Note

 Do not open the upper cover extremely quickly or forcibly 90 degrees or more.

 Upper cover

 Locking lever

 Locking lever

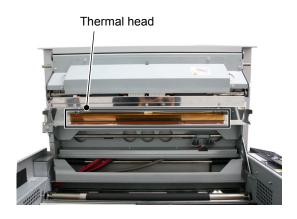
 [Useful tip]

A locking lever is provided to the upper cover to prevent the cover from closing down. When opening the upper cover, be sure to open it to the position where the locking lever locks effectively.

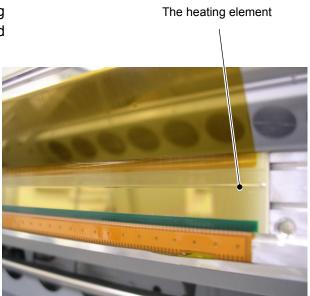
2. Wipe the heating element (thin glassy band) of the thermal head with a recommended cleaning cloth soaked in the adequate amount of recommended cleaning fluid, applying it overall and uniformly, and moving it from side to side.

CAUTION

- The thermal head is hot just after printing. Do not touch it directly by hand.
- Fingerprints on the thermal head heating element can cause the thermal head to fail. Do not touch it directly by hand.
- Be careful not to be injured by protrusions in the Thermal Digiplater.



3. Wipe the heating element of the thermal head with a rub small pieces of wrapping sheet (3M #4000), applying it overall and uniformly, and moving it from side to side.



- **4.** Wipe the heating element with a recommended cleaning cloth soaked in the adequate amount of recommended cleaning fluid.
- **5.** Release the locking lever and close the upper cover slowly.



4.1.2 Cleaning the main pinch roller

7. By holding the opening lever A on the top of the upper cover, open the upper cover. Opening lever A

 Note
 Image: Cover extremely guickly or forcibly 90 degrees or more.

 Upper cover
 Upper cover

 Locking lever
 Image: Cover extremely cover extremely guickly or forcibly 90 degrees or more.

 Upper cover
 Image: Cover extremely cover

 Upper cover
 Image: Cover extremely cover ext

A locking lever is provided to the upper cover to prevent the cover from closing down. When opening the upper cover, be sure to open it to the position where the locking lever locks effectively.

- **2.** When the plate is set, pull it out with your hands.
- **3.** Wipe the main pinch roller with a recommended cleaning cloth soaked in the adequate amount of recommended cleaning fluid.

Main pinch roller



4. Release the locking lever and close the upper cover slowly.



5. Reset the plate.

4.1.3 Cleaning the platen roller

7. By holding the opening lever A on the top of the upper cover, open the upper cover. Opening lever A

 Note

 Do not open the upper cover extremely quickly or forcibly 90 degrees or more.

 Upper cover

 Upper cover

 Locking lever

 Locking lever

 Useful tip]

A locking lever is provided to the upper cover to prevent the cover from closing down. When opening the upper cover, be sure to open it to the position where the locking lever locks effectively.

- **2.** When the plate is set, pull it out with your hands.
- **3.** Wipe the rubber part of the platen roller with a recommended cleaning cloth soaked in the adequate amount of recommended cleaning fluid.
 - Please rotate the platen roller using the function of "Platen cleaning mode" in the 3.3.9 section, and clean the entire circumferences of the rubber part.
 - In order to clean the entire circumferences of the rubber part, it is necessary to repeat operation of "3." in the 3.3.9th section at least 6 times.

Platen roller

- Be careful not to scratch the rubber surface.
- Dirt on the platen roller can affect the print size accuracy.
- After cleaning, wait until recommended cleaning fluid has evaporated sufficiently before starting printing. (It is recommended that the Thermal Digiplater be left for about 5 minutes after cleaning.)
- Do not put your hand or cleaning cloth close to the inside of the Thermal Digiplater during the platen roller rotation.
 - **4.** Release the locking lever and close the upper cover slowly.



5. Reset the plate.

4.1.4 Cleaning the feeding pinch roller

7. By holding the opening lever A on the top of the upper cover, open the upper cover. Opening lever A

 Note

 Do not open the upper cover extremely quickly or forcibly 90 degrees or more.

 Upper cover

 Locking lever

 Locking lever

A locking lever is provided to the upper cover to prevent the cover from closing down. When opening the upper cover, be sure to open it to the position where the locking lever locks effectively.

- **2.** When the plate is set, pull it out with your hands.
- **3.** Remove the upper feeding roller, and wipe the white roller part with a recommended cleaning cloth soaked in the adequate amount of recommended cleaning fluid.



feeding pinch roller

- **4.** Wipe the rubber part of the bottom roller with a recommended cleaning cloth soaked in the adequate amount of recommended cleaning fluid.
 - It's very difficult to rotate the bottom roller by hands, please use the function of "Platen cleaning mode" in the 3.3.9 section, and clean the entire circumferences of the rubber part.
 - In order to clean the entire circumferences of the rubber part, it is necessary to repeat operation of "3." in the 3.3.9th section at least 6 times.
- **5.** Release the locking lever and close the upper cover slowly.



- 6.
 - Reset the plate.

4.1.5 Cleaning the cleaning rollers

7. By holding the opening lever A on the top of the upper cover, open the upper cover. Opening lever A

 Note

 Do not open the upper cover extremely quickly or forcibly 90 degrees or more.

 Upper cover

 Upper cover

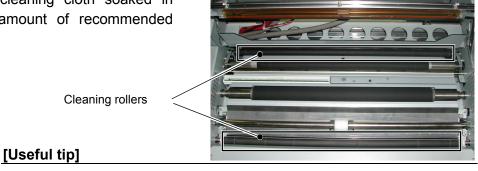
 Locking lever

 Locking lever

 Useful tip]

A locking lever is provided to the upper cover to prevent the cover from closing down. When opening the upper cover, be sure to open it to the position where the locking lever locks effectively.

- **2.** When the plate is set, pull it out with your hands.
- **3.** Wipe the cleaning rollers with a recommended cleaning cloth soaked in the adequate amount of recommended cleaning fluid.



Cleaning rollers are provided on the entrance and discharge sides.

upper cover slowly. Upper cover Locking lever -



4.

5. Reset the plate.

Release the locking lever and close the

4.1.6 Cleaning the image sensor

7. By holding the opening lever A on the top of the upper cover, open the upper cover. Dening lever A

 Note

 Do not open the upper cover extremely quickly or forcibly 90 degrees or more.

 Upper cover

 Locking lever

 Locking lever

 [Useful tip]

A locking lever is provided to the upper cover to prevent the cover from closing down. When opening the upper cover, be sure to open it to the position where the locking lever locks effectively.

2. Wipe the image sensor with a recommended cleaning cloth soaked in the adequate amount of recommended cleaning fluid.

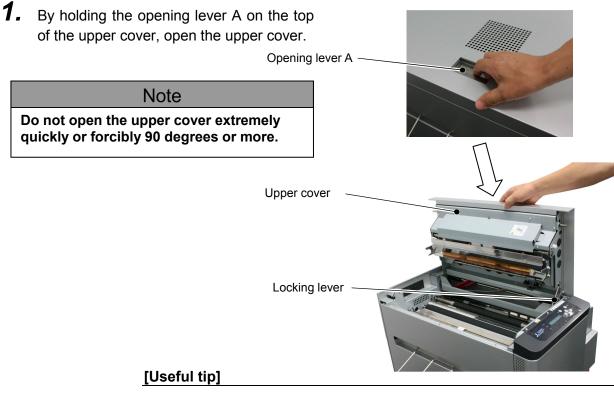
Image sensor



3. Release the locking lever and close the upper cover slowly.



4.1.7 Cleaning the head position plate



A locking lever is provided to the upper cover to prevent the cover from closing down. When opening the upper cover, be sure to open it to the position where the locking lever locks effectively.

2. Wipe the head-position plate with a recommended cleaning cloth soaked in the adequate amount of recommended cleaning fluid, applying it overall and uniformly, and moving it from side to side.



Head-position plate

3. Release the locking lever and close the upper cover slowly.



4.2 Cleaning the cover of the Thermal Digiplater

To remove dirt, wipe the cover of the Thermal Digiplater with a dry soft cloth.

If dirt cannot be removed by wiping with a dry cloth, lightly wipe the cover with a damped cloth which has been soaked in water or a little diluted neutral detergent.

WARNING

Should any foreign matter (metallic fragments, water or liquids) gets into the Thermal Digiplater, turn off the power switch, disconnect the power cable from the electric outlet, and contact the distributor.

Using the Thermal Digiplater without removing the foreign matter can cause a fire or electric shock.

WARNING

Should the Thermal Digiplater be used in an abonormal state (generating heat, smoking or abnormal odors), it can cause a fire or electric shock. Turn off the power switch immediately, disconnect the power cable from the electric outlet and contact the distributor.

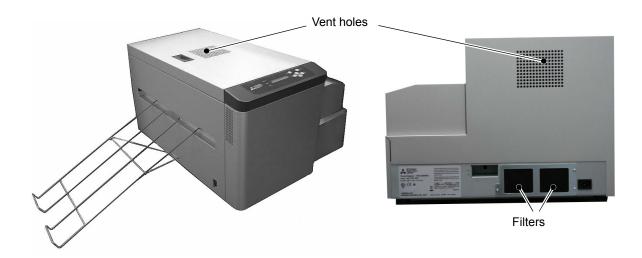
CAUTION

If the surfaces are wiped with a volatile liquid, such as benzine or thinner, or sprayed with insecticide, they can become discolored or cracked.

Λ

4.3 Cleaning the filters

If it gets dust on the vent holes and filters, clean them with a vacuum cleaner.



4.4 Consumable parts

Consumable parts for the Thermal Digiplater are shown on the following table.

No.	Name
1	Thermal head(Assembly)
2	Cleaning roller
3	Cutter unit
4	Filter

*Available supply period for consumable parts is 5 years after it is discontinued. *It will be informed separately about discontinuing the product. (MEMO)

Chapter 5 Trouble shooting

5.1 When an error message is displayed

When an error occurs, an error message will be shown on the LCD on the operation panel. The error messages shown on the LCD and the measures to be taken are explained below.

Message on the LCD	Condition	Measures
Plate Empty	The plate has been used up or no plate has been installed.	If the plate has been used up, supply with a new plate.
No Plate	The plate is not set.	Please set the plate.
Unmatch Plate	The size of the plate placed in this machine does not match the plate size set.	Check the size of the actual plate and the plate size set on this machine. Then install and set the correct plate.
Plate Jam □□ *	Plate jam	Remove the jammed plate. If plate jams occur frequently, consult Service department.
Mecha Error □□ *	Problem in the mechanical system of the Thermal Digiplater	
Control Error *	Problem in the control board of the Thermal Digiplater	Turn the power to the Thermal Digiplater off and on. If the Thermal Digiplater cannot be
Temp Sens Err □□ *	A temperature sensor of the Thermal Digiplater is defective.	restored by turning the power off and on, it may be necessary to repair the Thermal Digiplater. Consult Service department.
Sensor Error 🗆 *	Problem in the sensor system of the Thermal Digiplater	

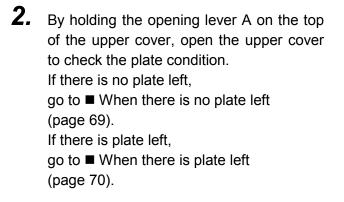
* The messages on the LCD show a code number for service in the boxes (□□). When consulting Service department, please quote a code number.

5.2 Plate jam

If a plate jam occurs, turn off the power and remove the jammed plate.

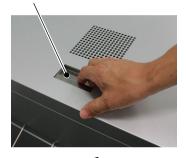
1. Turn off the power switch.





Opening lever A

Upper cover



Note

Do not open the plate cover extremely quickly or forcibly 90 degrees or more.

CAUTION

- The thermal head is hot just after printing. Do not touch it directly by hand.
- Fingerprints on the thermal head heating element can cause the thermal head to fail. Do not touch it directly by hand.
- Be careful not to be injured by protrusions in the Thermal Digiplater.

- When there is no plate left
 - **1.** Turn on the power switch.



2. Reset the plate. See 2.8 Setting the plate.

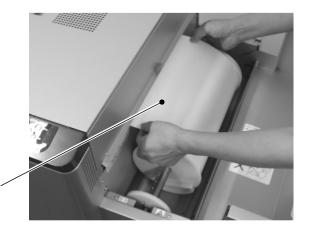
■ When there is plate left

1. Open the plate cover and pull the plate out with your hands.

Note

Do not open the plate cover extremely quickly or forcibly 90 degrees or more.

Plate



2. If the plate cannot be pulled out, cut off the jammed and folded sections with scissors, and pull the plate out.



3. Reset the plate. See **2.8 Setting the plate**.

5.3 When parts of image area are missing from the printed plate

■ Incorrect print with straight streaky missing parts in the direction of plate feed

- This may have been caused by contamination on the thermal head. Clean it as instructed in Chapter 4 , 4.1 Cleaning the parts inside the Thermal Digiplater.
- If this problem cannot be solved by cleaning, the head may be broken. Consult Service department.

Incorrect print with dotted missing parts

• This may have been caused by contamination on the cleaning rollers. Clean them as instructed in Chapter 4 , 4.1 Cleaning the parts inside the Thermal Digiplater.

5.4 Plate is not correctly detected

• The error message "Plate Empty" is displayed when the plate has not been used up.

Contaminated plate sensors may not have correctly detected the plate. Clean the plate sensors by following the steps as instructed below.

If this problem cannot be solved by cleaning, the sensors may be defective. Consult Service department.

1. Turn off the power switch. Power switch 2. By holding the opening lever A on the top Opening lever A of the upper cover, open the upper cover. Note Do not open the upper cover extremely quickly or forcibly 90 degrees or more. CAUTION • The thermal head is hot just after printing. Do not touch it directly by Upper cover hand. Fingerprints on the thermal head heating element can cause the thermal head to fail. Do not touch it directly by hand. Be careful not to be injured by protrusions in the Thermal Digiplater.

[Useful tip]

A locking lever is provided to the upper cover to prevent the cover from closing down. When opening the upper cover, be sure to open it to the position where the locking lever locks effectively.

3. Wipe the plate sensors with a recommended cleaning cloth soaked in the abequate amount of recommended cleaning fluid.



[Useful tip]

Insert the cotton swab into each of the eight holes, as indicated in the circles in the above photo, and wipe off contamination by moving the cotton swab in a circular pattern in the hole.

4. Release the locking lever to slowly close the upper cover.





Locking lever

5.5 When power is off during printing

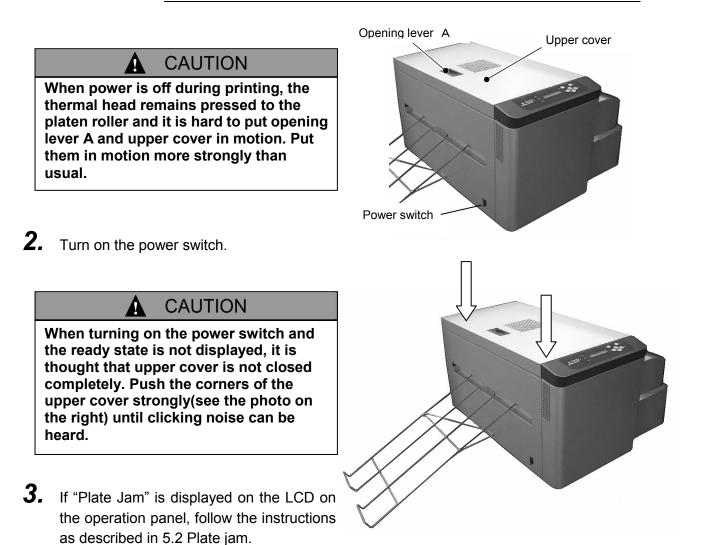
- Power outage
- Power cable accidentally disconnected

If power is off during printing, the thermal head remains pressed to the platen roller. Leaving this condition uncorrected for an extended period may cause deformation of the rubber on the platen roller. To prevent the rubber from being deformed, perform the following steps as instructed below.

1. Turn off the power switch and restore the power supply.

[Useful tip]

In case of a power outage, wait until the power supply service is restored. If the power cable is disconnected, re-connect the power cable to the power supply terminal or the electric outlet.



Chapter 6 After-sales service

If you would like to inquire about the product or request a repair, please consult the distributor from whom you bought the product.

(MEMO)

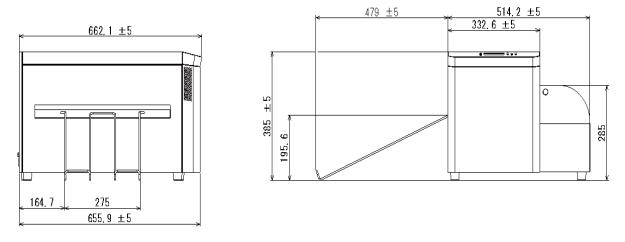
Chapter 7 Specification

7.1 Basic specification

ltem	Specification	
Print system	Direct thermal system	
Resolution	1203.8 DPI	
	Dot pitch for crosswire direction : 0.0211mm	
	Dot pitch for lengthwise direction : 0.0211mm	
Plate size	(Width)	
	279,286,292,305,310,318,324(mm)	
	11.00,11.25,11.5,12.00,12.19,12.50,12.75(inch)	
	(Length)	
	150-530(mm)	
Maximum recording width	360mm	
Print speed	Less than 45 seconds	
	* Plate size 324mm x 492mm(12.7inch x 19.3inch)	
	* In case of 20°C (68°F)with ambient temperature	
Plate tray capacity	5 plates	
Buffer memory capacity	64M byte(for 1 image)	
Interface	USB2.0(High speed)	
Power supply	AC90~264V automatic change	
Power consumption	Maximum power consumption less than 610W	
	Standby power consumption less than 35W	
Use environment	Temperature20~30°C(68-86°F), Humidity50~70%	
	(No condensation)	
Dimension	Height 383mm×Width 515mm×Depth 663mm	
	(Body)	
Weight	Approx 55kg(Body)	

- Specification for this machine is subject to change without notice continual improvements.
- In case of TDP-324B, a width of 254mm (10.00 inch) is available additionally.

7.2 Outline figure



(MEMO)