

Quick Guide



Rewinder for SATO Barcode Printer RWG500

Thank you for your purchase of the SATO Rewinder RWG500.
Make sure to read this operation manual and keep it in a handy place.



Introduction

Thank you for your purchase of the SATO Rewinder RWG500. This manual helps first time users understand the basics of the RWG500 in a short period of time. To get the most out of the functions of the RWG500, make sure to read this manual carefully.

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Safety Precautions

In this section, safety precautions about rewinder operation are explained to ensure proper care and usage. Make sure to read these carefully before using your rewinder.

Marking and Symbols

The following symbols or markings are used in this quick guide and on the rewinder so that you can properly use the rewinder, and to prevent any damage to property, harm or injury to yourself and others. Make sure to read their explanations carefully to familiarize yourself with their meanings.



Warning

This symbol indicates information that, if ignored or applied incorrectly, creates the danger of death or serious personal injury.



Caution

This symbol indicates information that, if ignored or applied incorrectly, creates the possibility of personal injury or property damage.

Symbol example



The triangle (△) indicates something you should take absolute care when doing. The cautions are indicated concretely within the symbol. The symbol on the left indicates caution with electric shock.



A diagonal line within a circle (⊘) indicates something you should not do. The symbol on the left indicates you should not try to take the unit apart.



A black circle (●) indicates something you need to do. The symbol on the left indicates you should unplug the unit from the wall outlet.



Warning



Do not place on an unstable place

Do not place the rewinder on an unstable place such as an unsteady table, an inclined place or a place with vibration. The rewinder may drop or topple over and cause injuries.



Liquids

Do not place any containers with water or chemicals, such as flower vases or cups, as well as small metallic objects near the rewinder. Continued use creates the danger of fire or electrical shock.

* If any of these should fall into the rewinder, immediately turn off the power and contact your nearest dealer or service center.



Foreign Matter

Do not drop or insert metallic or flammable objects into the openings on the rewinder. Continued use creates the danger of fire or electrical shock.

* If any of these should fall into the rewinder, immediately turn off the power and contact your nearest dealer or service center.



Dropping and Damage

Do not use if the product has been dropped or damaged. Continued use creates the danger of fire and electrical shock.

* Should the rewinder ever fall or otherwise become damaged, immediately turn off the power and contact your nearest dealer or service center. Continued use creates the danger of fire or electrical shock.



Abnormal Conditions

Do not use the rewinder if it is emitting smoke or strange odors. Continued use creates the danger of fire and electrical shock.

* Immediately turn off the power and contact your nearest dealer or service center for repairs. Do not try to service the rewinder by yourself.



Warning



Disassembly

Never try to take the unit apart or modify it in any way. Doing so creates the danger of fire or electrical shock. Contact your nearest dealer or service center for repairs.



Location

Do not locate the rewinder in areas subjected to high humidity or dew. Doing so creates the danger of electrical shock.

* If dew forms inside the rewinder, immediately turn off the power and do not use it until it has dried up.



Caution

FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE ONLY SAME TYPE AND RATING OF FUSE.

LOCATION : F1 , F2 RATING : 125V 3.5A

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

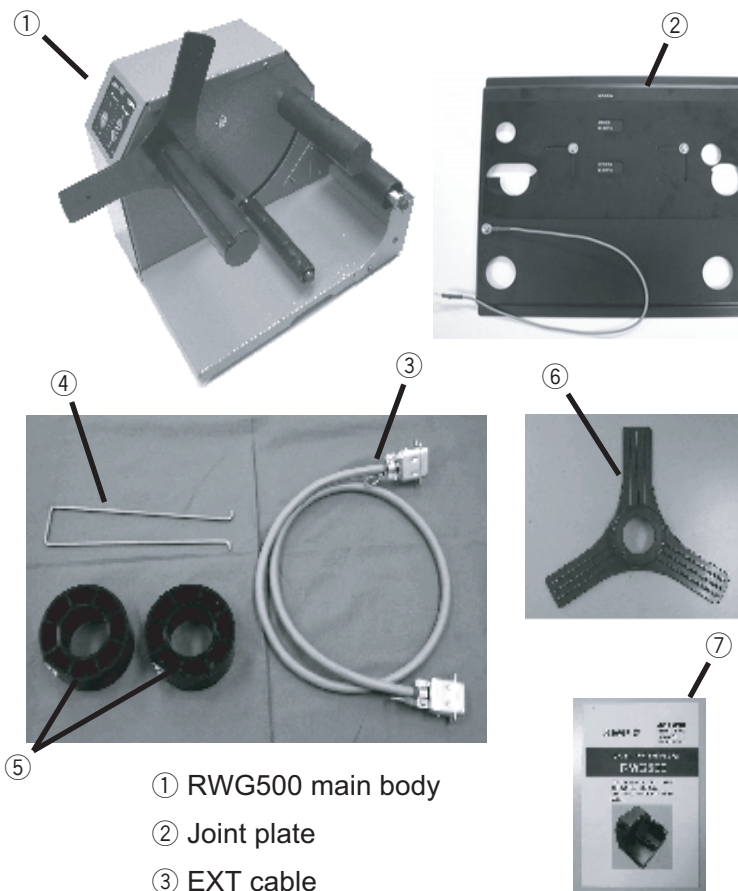
This equipment generates use and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or re locate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Main Body and Accessories



① RWG500 main body

② Joint plate

③ EXT cable

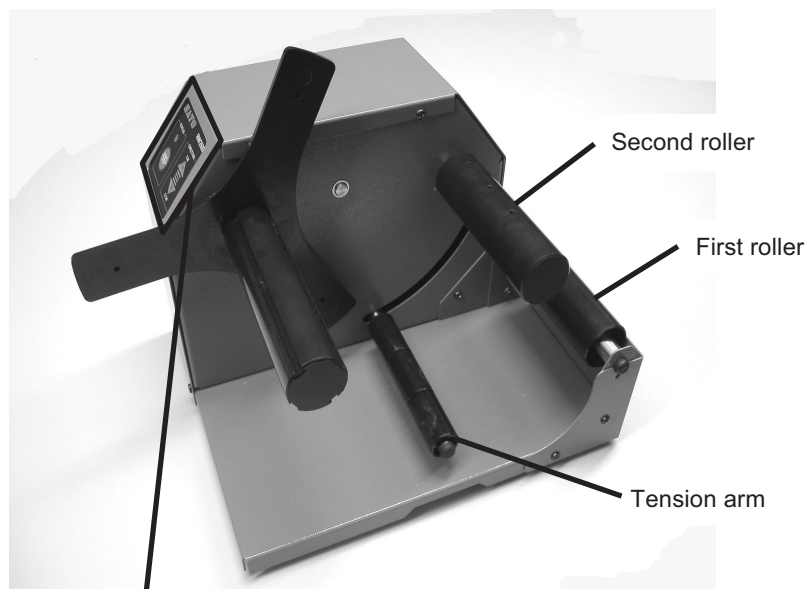
④ Clip

⑤ 3-inch core (2 pieces)

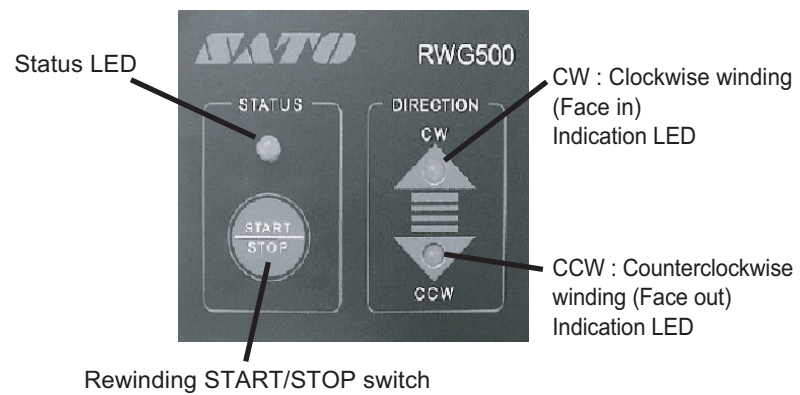
⑥ Label guide

⑦ Quick Guide (this booklet)

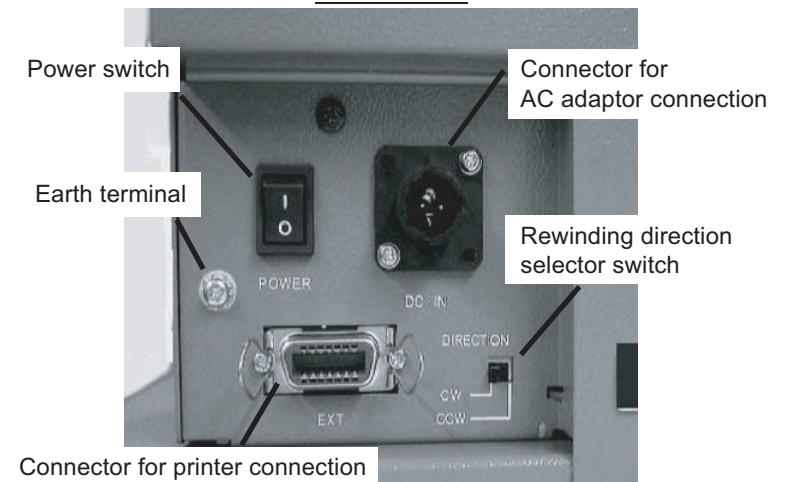
Parts Identification



Control Panel



Side Panel



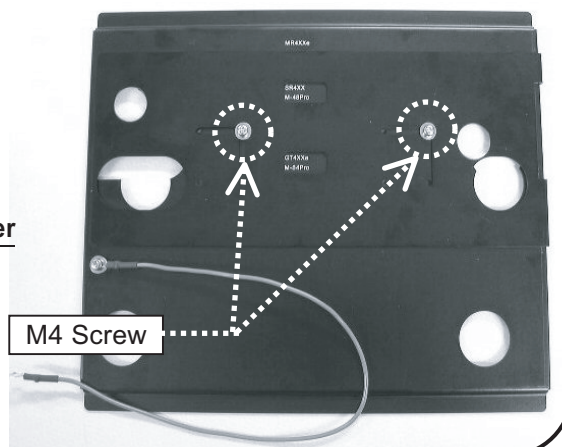
Joint plate setting

Set the joint plate according to the printer model to be connected.

1

Loosen the screws (2 places) of the joint plate.

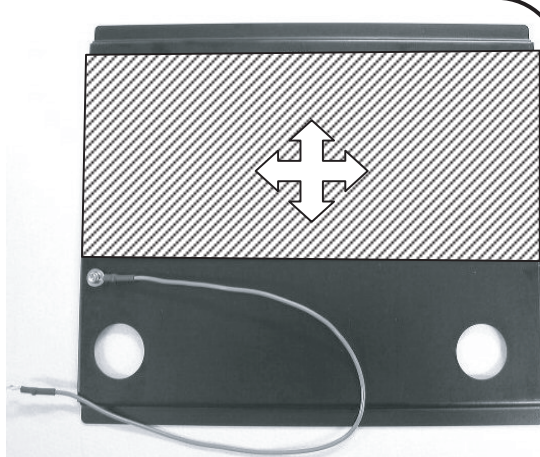
※ **Phillips screwdriver is necessary.**



2

Slightly lift up the plate indicated with oblique lines, then set it by sliding it left and right or up and down.

※ **For the setting for each model, refer to the subsequent pages of this guide.**



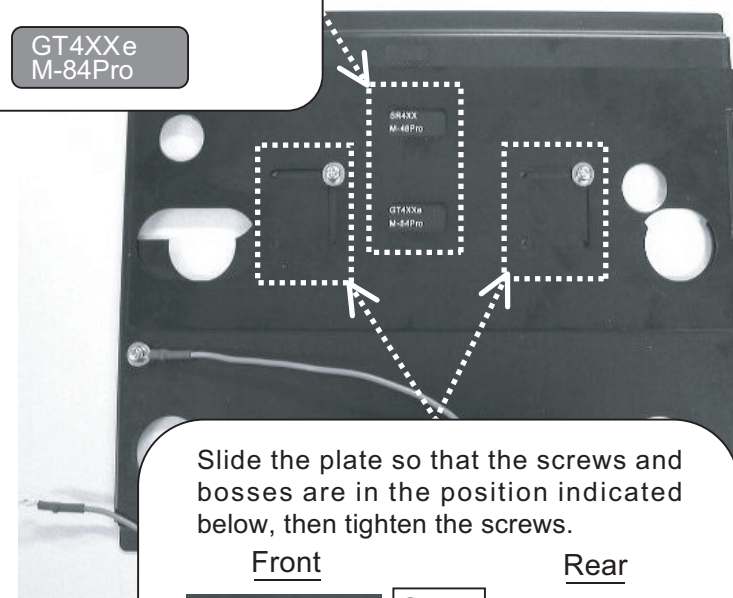
Printer model name

GT4xxe
M-84Pro

Check the printer model displayed.

SR4XX
M-48Pro

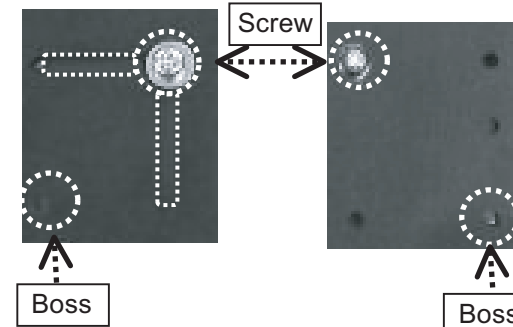
GT4XXe
M-84Pro



Slide the plate so that the screws and bosses are in the position indicated below, then tighten the screws.

Front

Rear

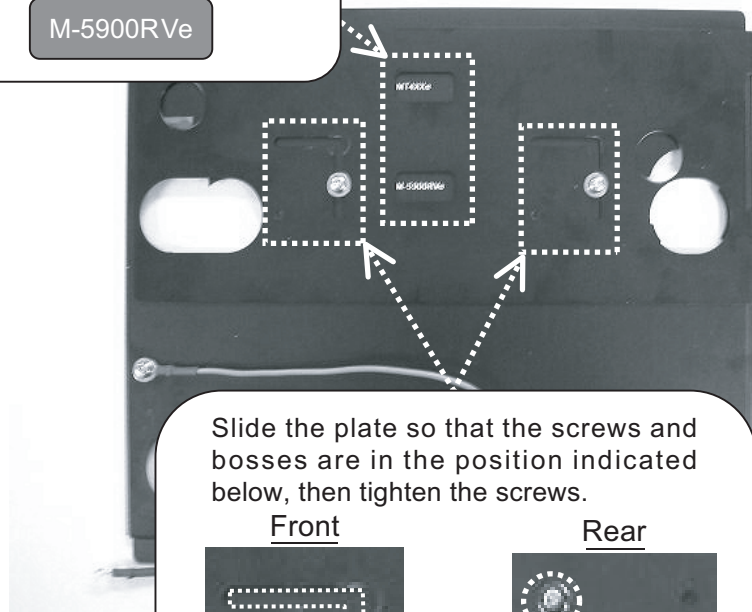


Printer model
M-5900RVe

Check the printer model
displayed.

MT4xxe

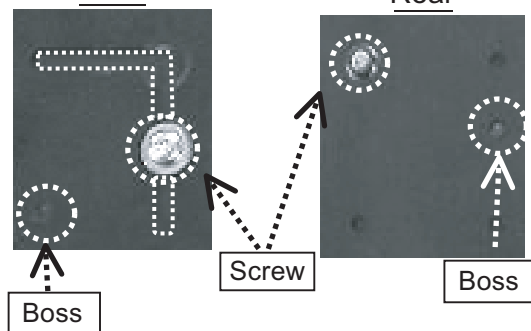
M-5900RVe



Slide the plate so that the screws and bosses are in the position indicated below, then tighten the screws.

Front

Rear

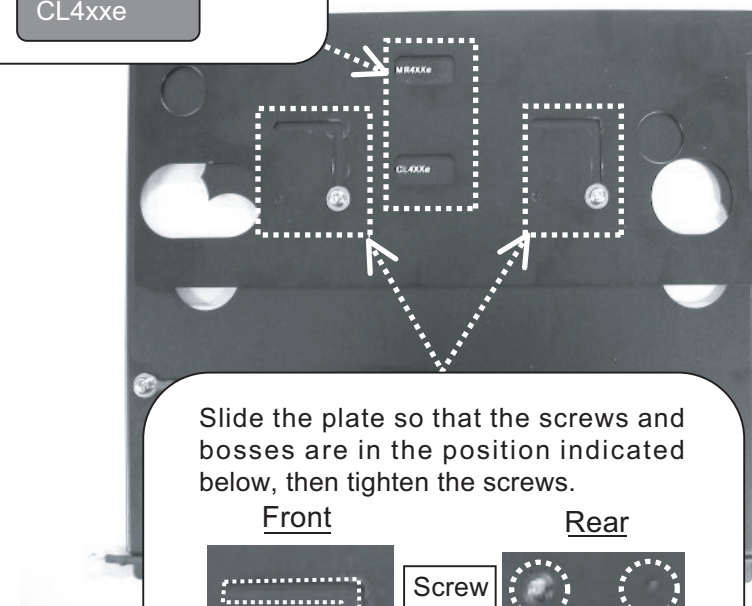


Printer model
CL4xxe

Check the printer model
displayed.

MR4xxe

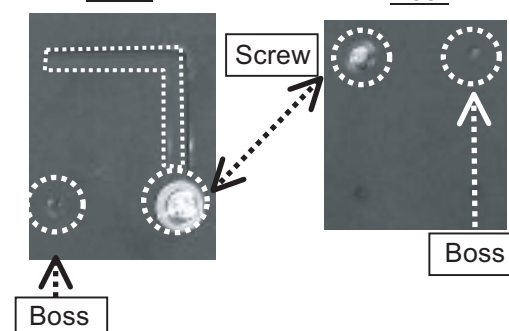
CL4xxe

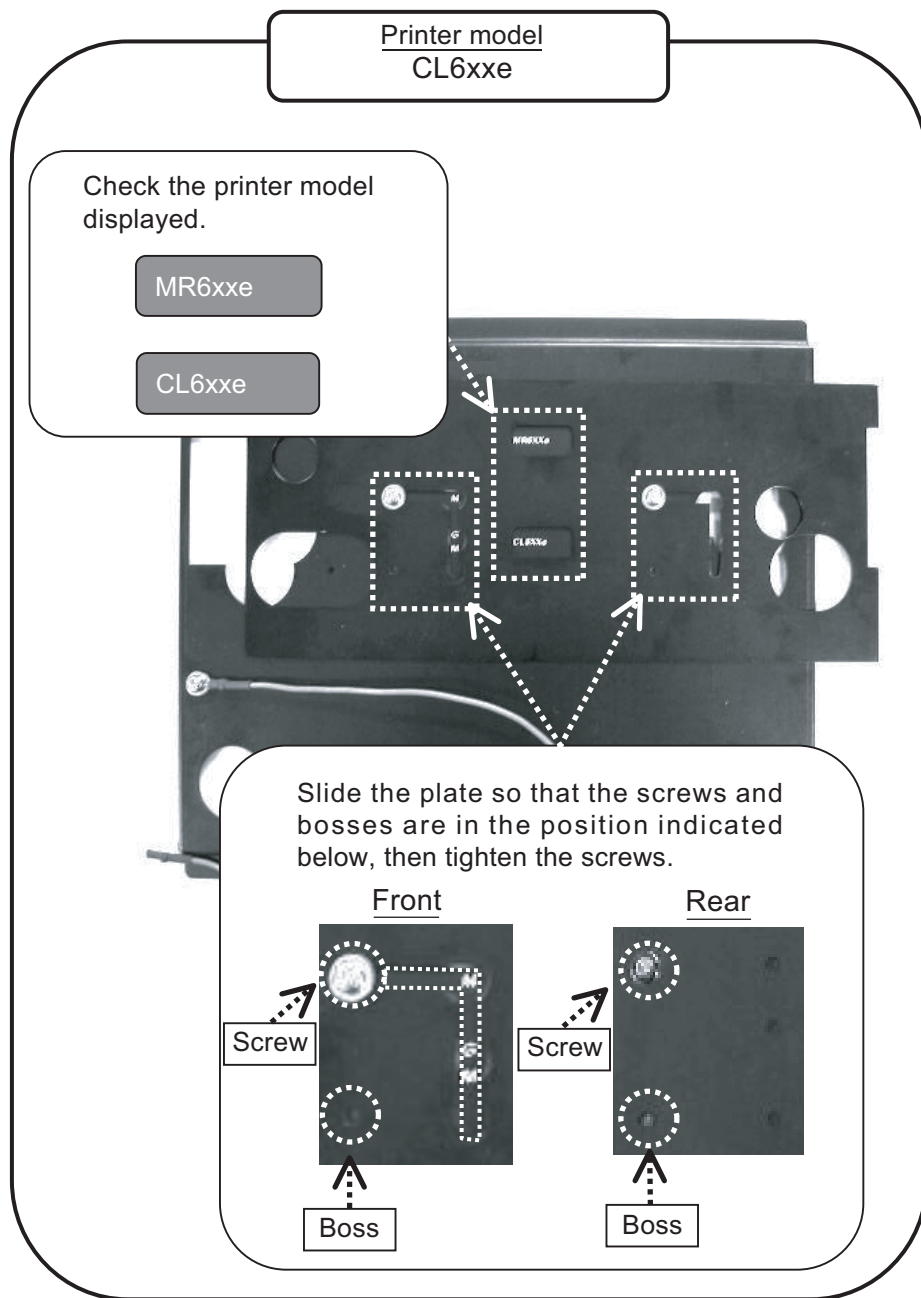


Slide the plate so that the screws and bosses are in the position indicated below, then tighten the screws.

Front

Rear





First Roller Height Setting

According to the printer to be connected, adjust the first roller height to either upper or lower position.

- 1 Check which of the following categories the printer to be used belongs to.

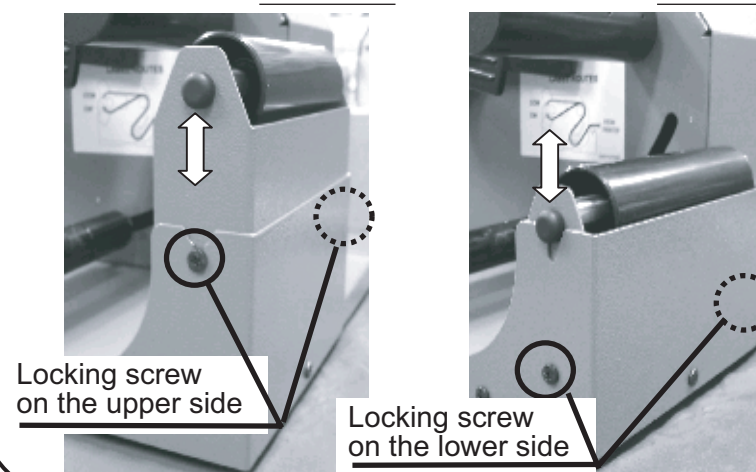
Printer name	First roller position	Screw position
GT4xxe	Lower side	Lower side
CL6xxe	Lower side	Lower side
Others	Upper side	Upper side

- 2 Remove the screws (1 screw each for right and left) that lock the first roller.
 ※ **Phillips screwdriver is necessary.**

- 3 Slide the first roller upwards or downwards.
 Tighten the removed screws (1 screw each for right and left).

Roller position : Upper side

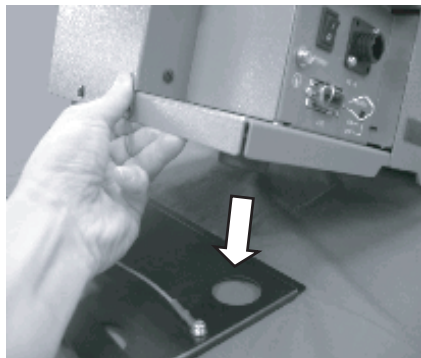
Roller position : Lower side



Connection to Printer

1

Place the feet of the rewinder (2 places) into the positioning holes on the joint plate.



2

Insert the FG terminal into the earth terminal on the side panel, and then fix it.

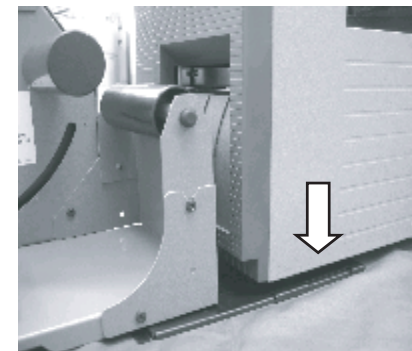
※ **Phillips screwdriver is necessary.**



- Insert and attach the FG terminal between the screw and crow washer and the rewinder.

3

Place the feet of the printer (2 places) into the positioning holes on the joint plate.



4

Connect the EXT cable to the EXT terminal of the printer.

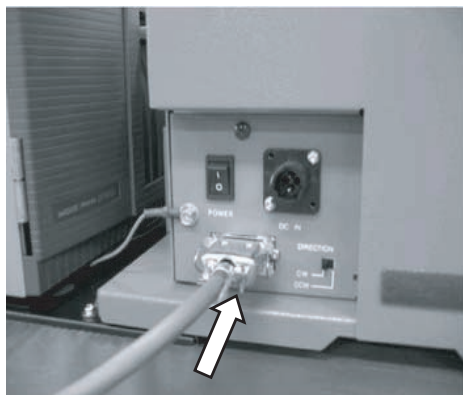
※ For the position of the EXT terminal, refer to the operating manual of the printer

Example where the printer used is CL400e.



5

Insert the EXT cable to the connector for printer connection on RWG 500. Connection is completed.



CAUTION

- When connecting, the power of both the printer and the rewinder must be turned OFF.
- Make sure that the printer and the rewinder is set correctly with the joint plate. If they are not set correctly, Rewinding error may occur.

Label Setting

This rewinder can perform 4 types of label rewinding methods by combining rewinding shaft types and winding directions.

Rewinding direction : Face in / Face out

Rewinding shaft : Direct Rewinding /

3-inch paper-core Rewinding

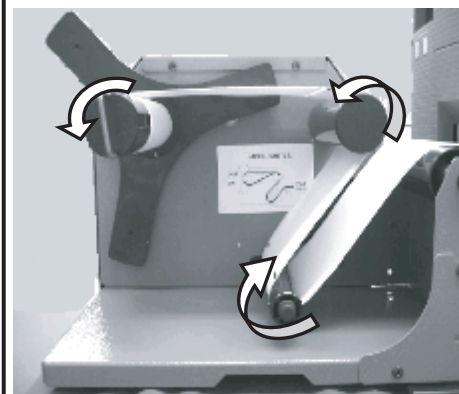
Select the rewinding method according to the environment where this rewinder is used, then set the paper.

Rewinding Direction

There are 2 types of label winding direction, namely face out rewinding and face in rewinding. For the above 2 types, the setting direction against the rewinding shaft are different.

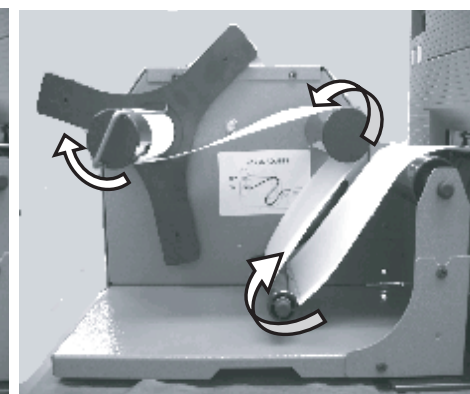
Setting Direction

Face out Rewinding (CCW)
label route



Printed label surface comes outside when rewinding.

Face in Rewinding (CW)
label route



Printed label surface comes inside when rewinding. Backing sheet can be seen on outside.

Switching of Rewinding Direction

Switch the Rewinding direction with the Rewinding direction selector switch on the side panel.

※ **Face in Rewinding is set as the factory setting.**

Side panel



● Face in Rewinding

(CW side)

LED of CW lights up.



CW CCW

● Face out Rewinding

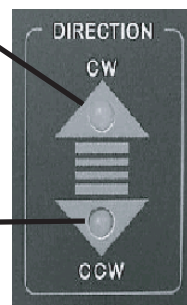
(CCW side)

LED of CCW lights up.



CW CCW

Control panel display



CAUTION

Switching of the Rewinding direction may be performed only in either of the following states:

- The Status LED on the control panel blinks in green (idling state).
- The power of the rewinder is turned OFF.

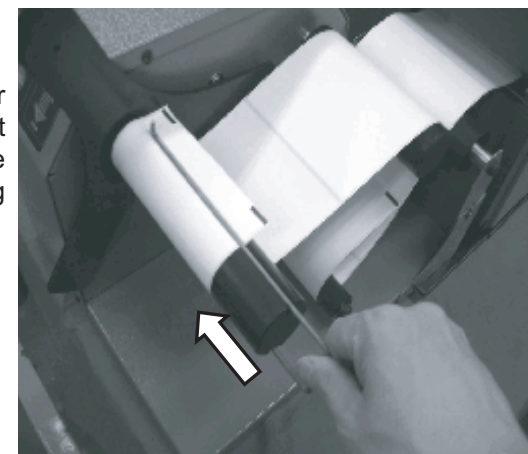
Rewinding Shaft

Direct Rewinding

1

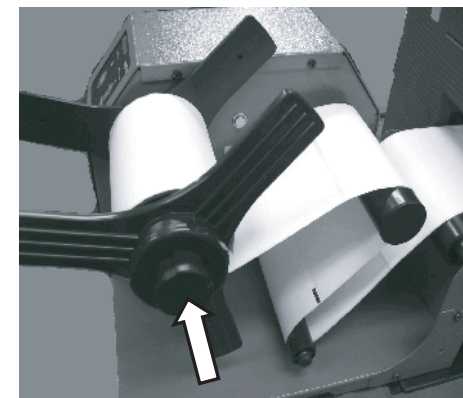
Set the label as inside or outside Rewinding. Insert the provided clip onto the guide of the rewinding shaft to fix the label.

※ Push the clip in until it touches the end of the guide.



2

Insert the label guide. Label setting is completed.



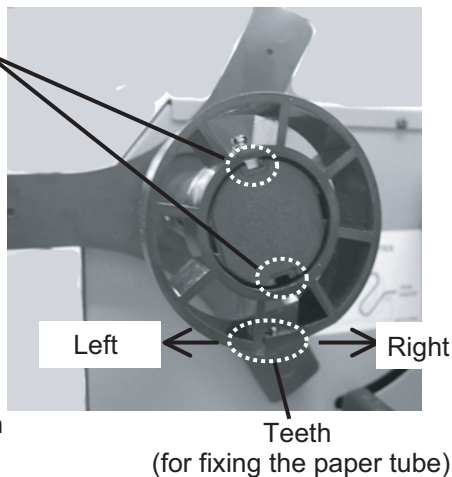
3-Inch Paper-core Rewinding

- 1** Attach the provided 3-inch core adaptor to the rewinding shaft. At this time, align the locking screws to the guides (narrow-width guide and deep-groove guide) of the rewinding shaft.

Guide
(narrow-width guide,
deep-groove guide)

※ Adjust the core teeth direction so that it will be the same as the Rewinding direction.

Face in Rewinding : Left direction
Face out Rewinding : Right direction

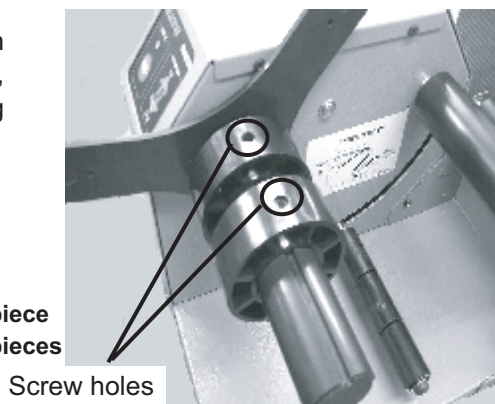


- 2** Adjust the core position according to the label width, and then lock it by tightening the screws.

※ Number of cores to be used should be determined referring to the following standard.

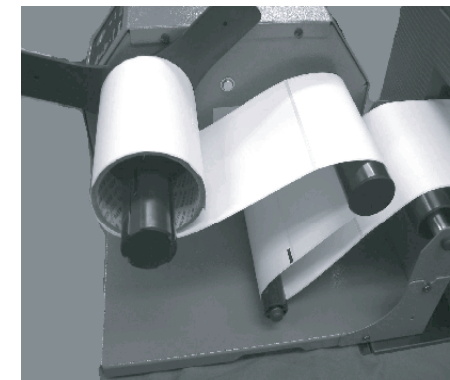
Label width of below 65mm : 1 piece
Label width of 65mm and above : 2 pieces

※ Phillips screwdriver is necessary.



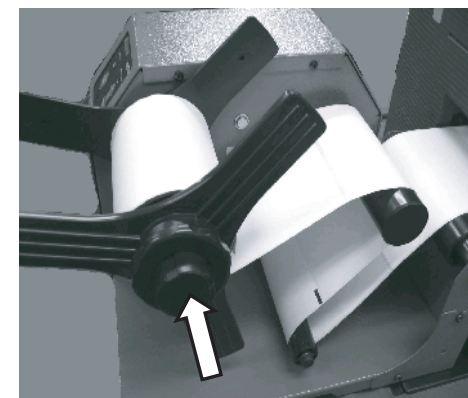
3

Insert the paper tube, then fix the label with an adhesive tape, etc.



4

Lastly, insert the label guide. Label setting is completed.



! CAUTION

Label setting may be performed only in either of the following states:

- The Status LED on the control panel blinks in green (idling state).
- The power of the rewinder is turned OFF.

Basic Usage of the Rewinder

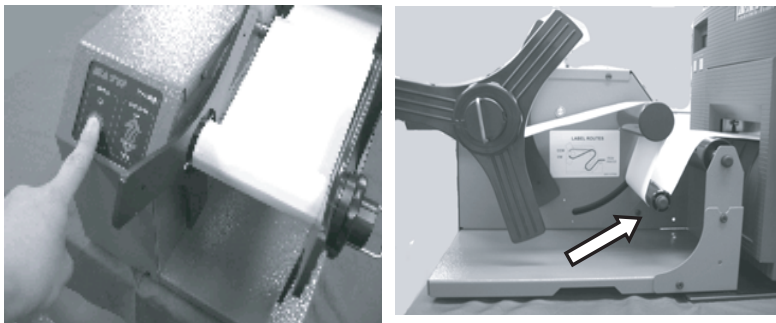
After the label has been set, rewinding of the label can be performed. The followings are the rewinding procedures.

1 Turn on the power of the rewinder.

Turn on the power switch on the side of the rewinder. After for a while, the status LED on the control panel will start **blinking in green**. At this time, the rewinder is in **idling status**.

2 Take up the slack in the label.

Press down and hold the START/STOP switch on the control panel. The rewinding shaft starts rotating, and the tension arm rises and then stops automatically. When the LED is **lit in green continuously**, which shows the **rewinder is now in rewinding operation**, release the switch.



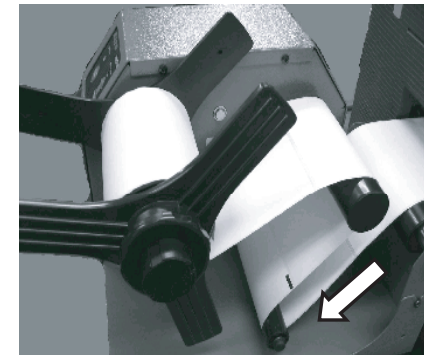
- If the switch is released before the slack is taken up, the rewinder stops automatically and the status LED **continues blinking in green (i.e., idling status)**. In this status, the rewinder will not perform label rewinding operation. Make sure to press down and hold the switch until the LED is **lit in green continuously**.

3 Start automatic rewinding.

Operate the printer and start issuing the label. Slack in the label and issuing speed are detected automatically before performing rewinding.

4 When the rewinding is completed.

When the rewinding is completed, press the START/STOP switch on the control panel. The tension arm comes down and stops automatically. The status LED **blinks in green** and the rewinder returns to the **idling status**.



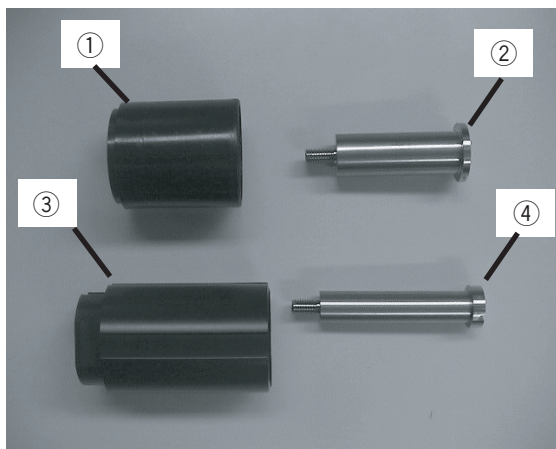
5 Remove the rewound label.

After removing the label on the printer side, then remove the label rewound with this rewinder. The rewound label can be removed easily because the tension arm has been down.

6-Inch Expansion Option

To rewind the label with the width of more than 131mm, the expansion optional kit is required.

Contents of the Optional Kit



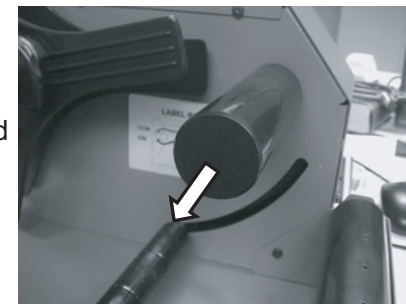
- ① Second roller joint
- ② Second roller shaft guide
- ③ Core joint
- ④ Core shaft guide

How to Install

Install the optional kit correctly following the procedures shown below.

1

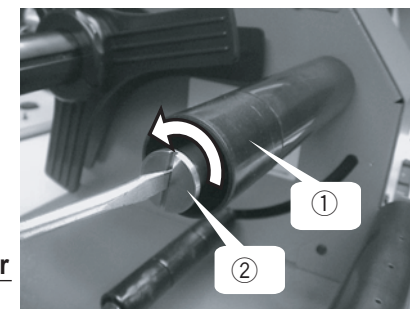
Remove the cap of the second roller.



2

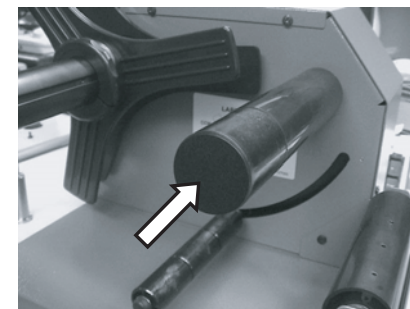
Insert the ① second roller joint and ② second roller shaft guide and then tighten ② counterclockwise.

※ A coin or a flat head screwdriver is necessary.



3

Reattach the cap.



Basic Specifications

Rewinding method	ø 40mm direct Rewinding, 3-inch paper-core Rewinding
Paper type	Please use the genuine label for Sato printers. ※ Linerless label is not applicable for this rewinder.
Paper width	Width: 25-131mm (standard) Width: 25-180mm (when the optional kit is installed) Label thickness: 0.08 - 0.26mm
Winding direction	Face in / Face out (CW/CCW) ※ Selectable with the switch on the side panel. Factory setting : Face in (CW) ※ Rewinding direction must be the same as the winding direction of the label set on the printer.
Rewinding speed	Automatic speed setting (MAX: 381mm / sec)
Rewinding monitoring	Slack in the paper, presence of paper and rewinding speed are detected with the tension arm.
Power supply	DC25V Standard : Power is supplied from the SATO printer main body with the exclusive cable (EXT cable). Option : AC adaptor exclusively for SATO equipment.
External diameter	Width (W) 280mm Depth (D) 320mm Height (H) 230mm
Weight	7.5kg

4

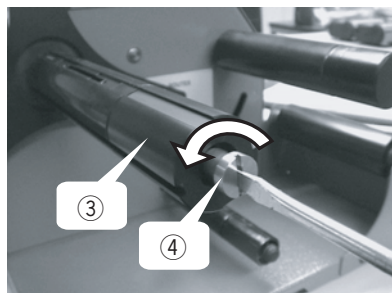
Remove the cap of the rewinding shaft.



5

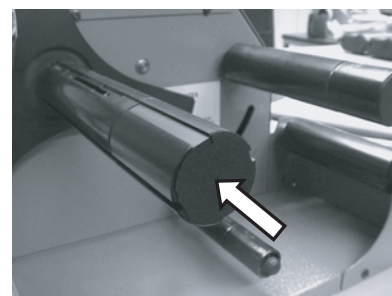
Insert the ③ core joint and ④ core shaft guide and then tighten ④ counterclockwise.

※ A coin or a flat head screwdriver is necessary.



6

Reattach the cap.
Installation of the optional kit is completed.



– MEMO –

– MEMO –

– MEMO –



First edition 15.Oct.2004