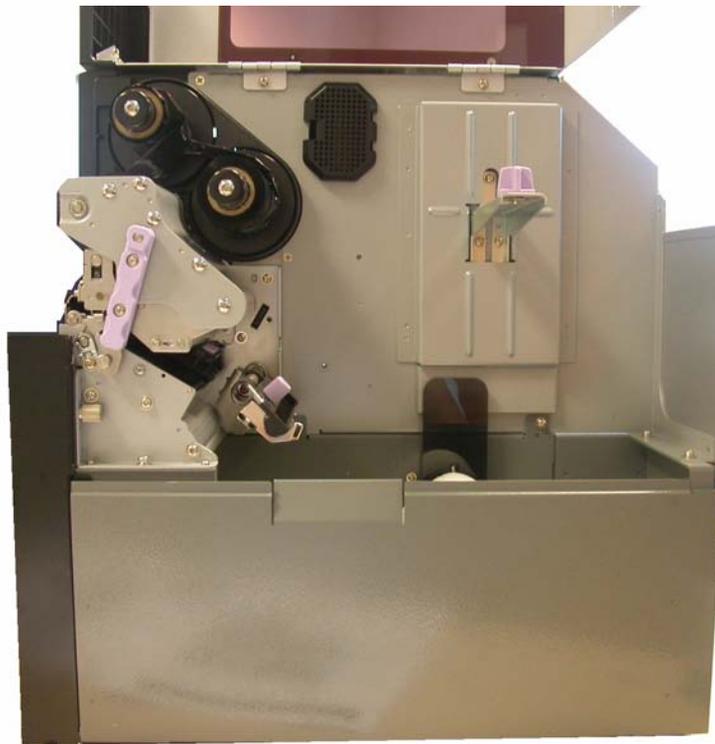




INTERNAL REWINDER-DISPENSER INSTALLATION GUIDE

For printer models:

GL 4xxe Series



Read this Installation Guide before and during the installation of the above accessory. Keep this Installation Guide handy for future reference.

1 General

1.1 Important information

This quick guide provides important information on how to setup your new SATO product.

Be sure to read this quick guide thoroughly before using this printer. It is an integral part of the product and should be kept in the immediate vicinity of the device and available to the operating staff.

1.2 Limitation of liability

All information in this manual have been compiled under due consideration of federal standards and regulations.

The manufacturer will not be held liable for damage resulting from:

- Disregarding these instructions
- Unintended use of the printer
- Unauthorized technical modifications
- Use of unapproved spare parts
- Use of unapproved consumables

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

1.3 Explanation of symbols

This instruction manual uses various warning icons to help you understand the safe operation of your printer. Explanations of the icons are below.



WARNING!

Indicates neglectful or erroneous use may cause irreparable damage to the product, serious injury to the operator, or worse.



CAUTION!

Indicates a specific point where caution should be used. The graphic within the triangle will indicate the specific issue, i.e.; the sign on the left indicates a caution for potential electrical shock.



CAUTION!

Indicates a potentially hazardous situation which, if not avoided, may result in damage to your product or host equipment.



NOTE!

Emphasizes useful tips or recommendations for efficient and smooth operation of your printer.

1.4 Contact and Document Information

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Extensive contact information of worldwide SATO operations can be found on the Internet at www.satoworldwide.com

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GL4xxe Internal Rewinder-Dispenser Installation

The installation procedure for the Internal Rewinder with front-mounted dispenser, involves three major steps, that are similar to the installation of the GL4xxe internal rewinder:

- 1) **Removing the base of the printer.**
- 2) **Mounting the printer above the rewinder and reinstallation of all removed covers.**
- 3) **Mechanical adjustment of the rewinder.**

The pictures of the internal-rewinder used in this Guide are applicable for installation processes of both the rewinder and rewinder-dispenser units.

1) Removing the base of the printer

Make sure the printer is OFF and disconnected from the power supply and all other cables.

Remove the side cover using a #2 phillips screwdriver to remove three screws as circled in orange. Keep these screws aside for later use when putting back the side cover.

Slide the side cover outwards by sliding it horizontally by a few inches first (see the red arrow), before lifting it up and out (white arrow).

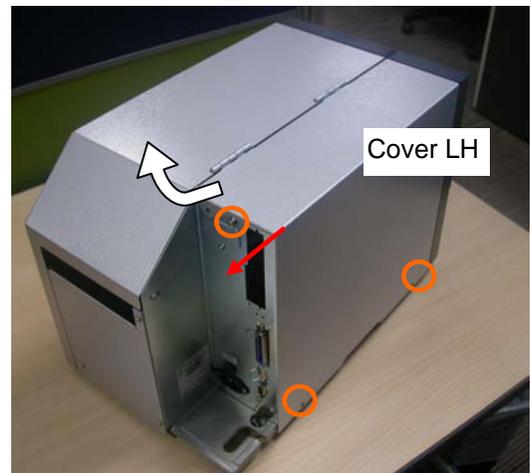


Figure 1a. Removing the side cover

Remove the printer's front cover by first unscrewing the thumbscrew indicated here.



Figure 1b. Removing the thumbscrew that secures the front cover.

1) Removing the base of the printer (cont'd)

The front cover can now be removed.



Figure 1c. Front cover can now be removed

Remove the lock shaft located at the front of printer. (Do not lose this part as it is essential for the installation of dispenser option)

Note

This lock shaft must be removed for the successful installation of the internal rewinder.



Figure 1d. Removing the lock shaft.

Remove a total of 9 screws (cross recessed hexagonal bolt M4x10). Four screws are circled in orange in Figure 1d.



Figure 1d. Removing the lock shaft.

1) Removing the base of the printer (cont'd)

The fifth screw to be removed is shown here.



Figure 1e. Removing the fifth of nine screws

The sixth and seventh screws are shown here, securing the base to the front of the chassis.

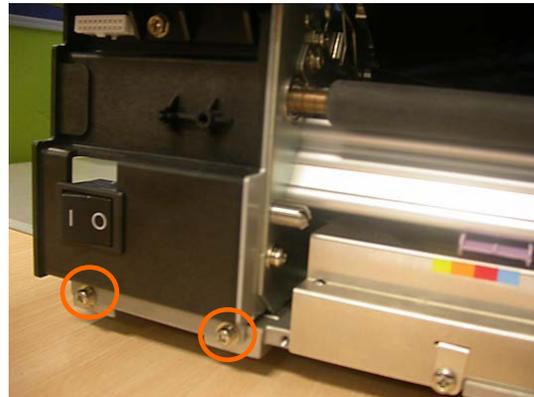


Figure 1f. Removing the sixth and seventh screws

The last two screws are on the electronic section as circled here in orange.

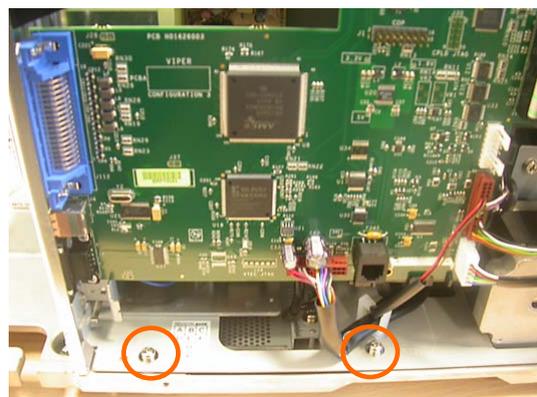


Figure 1g. Removing the final two screws

1) Removing the base of the printer (cont'd)

Finally, carefully separate the base plate of the printer from the main chassis.

This can be done by placing the printer on its side and pulling the base plate out.



Figure 1h. Separating the base from the printer

2) Mounting the printer above the rewinder-dispenser

To facilitate easier mounting, it is recommended that you remove the front cover of the internal rewinder-dispenser beforehand.

Pull down the side cover of the internal rewinder and remove two bind screws (M4x4) located as shown within the orange circles.

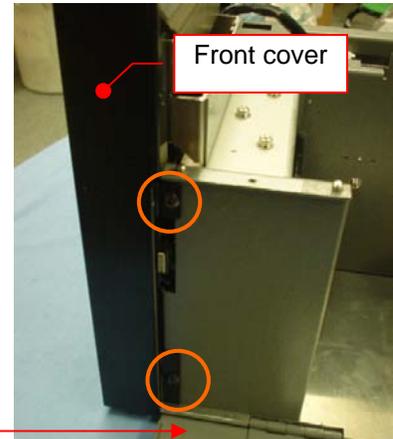


Figure 2a. Removing the rewinder's front cover

Remove two bind screws (M4x4) located as shown within the orange circles. Slightly lift the front cover in the direction of the arrow a little at a time, until it is totally separated from the chassis.

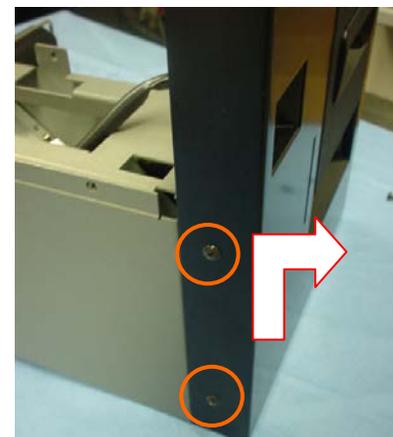


Figure 2b. Removing the rewinder's front cover

Mount the printer chassis onto the internal rewinder gently.

- a) Make sure that no cables are sandwiched between the printer chassis and internal rewinder-dispenser chassis during installation.
- b) Make sure that the sensor cable located at the left bottom of platen roller at the front of the printer (**Fig 2c**), is not caught in the bracket during installation of the internal rewinder-dispenser.

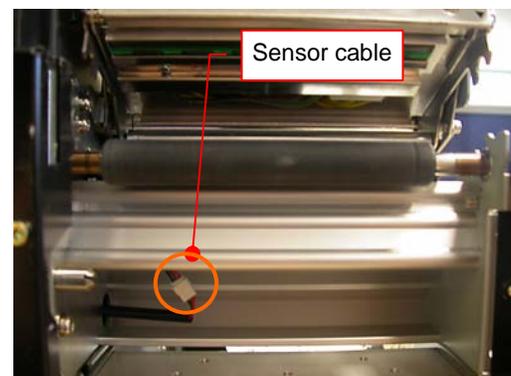
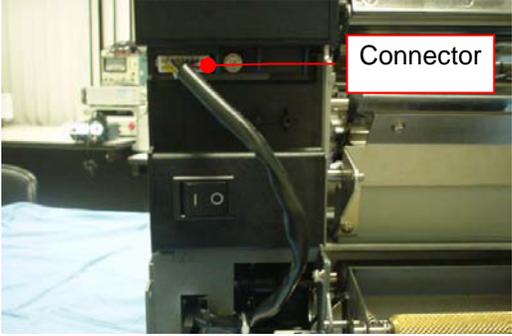
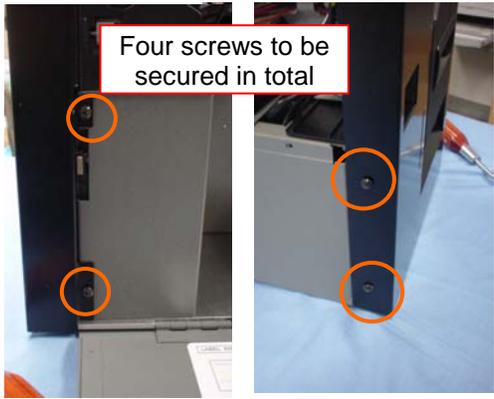


Figure 2c. Make sure no cables are compressed during the mounting.

1) Mounting the printer above the rewinder	
<p>A total of seven screws (cross recessed hexagonal bolt M4x10) are used to install the internal rewinder-dispenser to the printer chassis</p> <p>(Do not damage the PCB when using any tool such as screwdriver)</p> <p>Do not tighten all seven screws until you are sure the installation alignment is correct. Also check that all connectors have been reconnected.</p> <p>Two screws removed originally from the front of the printer, will be left unused.</p>	 <p>Figure 2d. Printer mounted on top of the internal rewinder</p>
<p>Next, we will reinstall the front cover of the internal rewinder-dispenser.</p> <p>First, connect the internal rewinder's cable to the connector at the front of the printer, as shown here.</p> <p>Make sure it is not compressed in any way when the front cover of the internal rewinder is mounted next.</p>	 <p>Figure 2e. Connecting the internal rewinder signal cable</p>
<p>Reinstall the front cover of the internal rewinder and temporarily tighten the two screws (bind screw M4x4) used to secure each side of the front cover.</p>	 <p>Figure 2f. Mounting the front cover</p>

1) Mounting the printer above the rewinder (cont'd)

If the front cover snaps into place correctly, you can proceed to further tighten the screws permanently, followed by inserting the thumbscrew used to secure the printer's front cover in the first step of this guide.

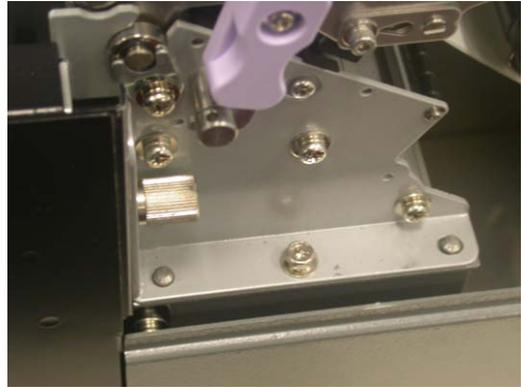


Figure 2g. Installing the thumbscrew

Finally, connect the printer power cable as shown, routing it through the slot at the bottom of the internal rewinder.



Figure 2h. Plugging the power cable

3) Mechanical adjustment of the dispenser

Turn the printer ON and take it OFFLINE (by pressing the LINE button).

Go into the printer's ADVANCED Mode and scroll to the Media Handling menu. Select Peel-Off to activate the peel-off and rewinder functions, and then exit the menu. Perform some printing to test the proper functioning of the liner rewinder.

Use the Media Handling menu to activate the rewinder

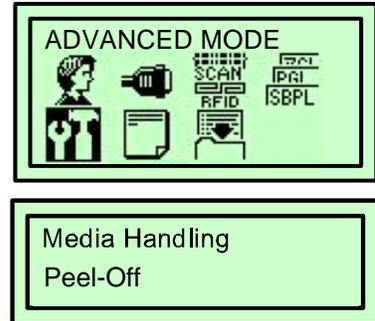


Figure 3a. Advanced Mode Media Handling menu

Load the label and ribbon according to the route drawing. The printer starts printing once it is at test print mode.

Check if the liner winding path meanders to the left and right. If so, adjust the dispenser plate. See next step.

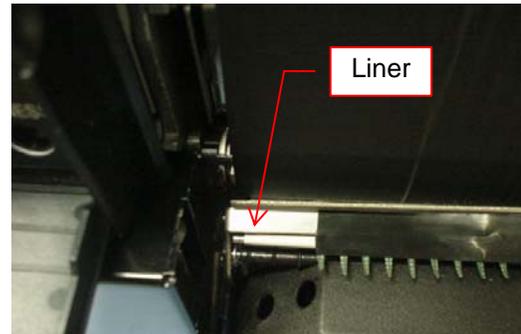


Figure 3b. Checking the liner winding path for meandering

The dispenser plate is adjusted via the the screw of the 'adjust collar': turn clockwise to move the dispenser plate forward toward you. Turn counter-clockwise direction to move the dispenser plate toward the printer itself.

Perform adjustment of the adjust collar and checki the meandering condition during test prints. Repeat the adjustment until the liner does not meander to left and right during feeding and back-feeding.

Note

If ribbon wrinkling occurs, adjust the ribbon adjust plate.

This marks the end of the installation process.

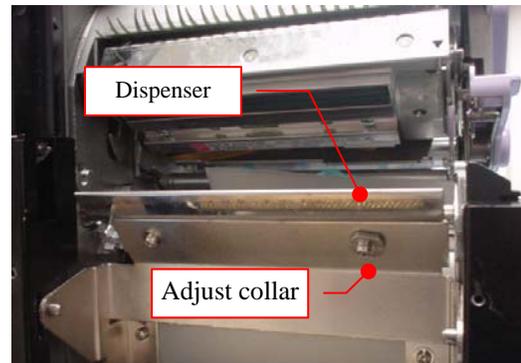


Figure 3c. Adjusting liner meandering via the adjust collar.

