

## Operator's Reference Guide

### M230i-DTP100 & M230i-DTP150

#### ■ SAFETY PRECAUTIONS

The Product Manual must be read before installing and operating your M230i-series equipment. Please read the Safety Precautions chapter carefully before proceeding. The Product Manual is found on the enclosed USB-stick.

**Note:** *This document is only a complement to the Product Manual.*

#### WARNING



- **Switch off electrical power and disconnect compressed air before attempting any cleaning or maintenance on the equipment.**
- **Unplug electrical supplies before opening any covers. Potentially lethal voltages are present in this equipment.**
- **Do not pour water or any other liquid directly onto the equipment.**



- **Keep hands, hair, clothing, jewellery, tools etc. well away from moving parts when the equipment unit is operating.**
- **Do not operate the equipment with any of the protective covers removed.**
- **Observe all relevant safety precautions regarding the use of compressed air.**

#### CAUTION



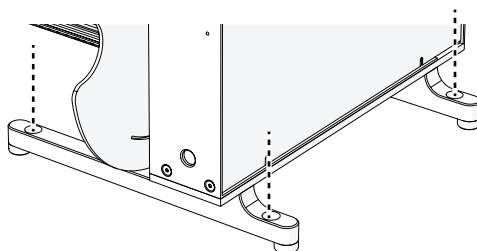
- *Do not probe the equipment's operating parts with sharp or metallic objects as this will cause operating malfunctions and possible damage.*
- *Do not allow abrasive dust particles to enter the printing mechanism, as this will lead to reduced print head life.*
- *Always follow the instructions for changing labels and/or ribbon. Only use approved label and ribbon supplies.*
- *Do not store paper supplies in locations that are subject to direct sunlight, high temperature, high humidity or high dust levels.*
- *Clean the exterior of the equipment by wiping with a dry lint-free cloth or, if necessary, use a mild detergent solution and a damp cloth.*
- *Do not use strong solvents on any surface of the equipment.*

#### ■ FASTEN DTP UNIT TO SURFACE

##### WARNING

There is a risk that the DTP unit overturns while changing label rolls. Always fasten the DTP unit to the tabletop or stand.

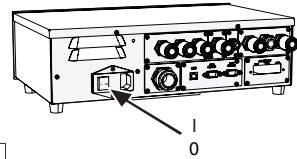
Fasten screws, nuts and bolts through the holes in the printer's feet and the tabletop or stand to ensure that the equipment will be unaffected by extreme vibration and risk of tilting.



## ■ POWER ON/OFF

Switch on/off the electrical power using the controller main switch. The main switch is located at the rear of the controller.

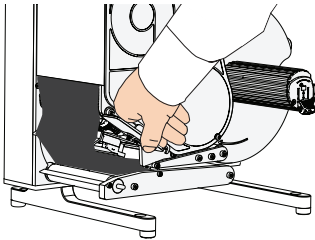
CONTROLLER



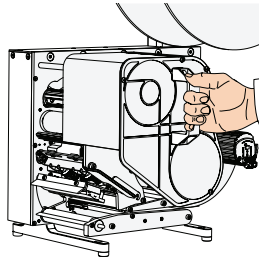
## ■ START PRINTER

To STOP	To START
<i>Carry out one of the actions</i>	<i>All actions must be carried out</i>
<ul style="list-style-type: none"> <li>• Raise the print head lifting handle.</li> </ul>	<ul style="list-style-type: none"> <li>• Lower the print head lifting handle.</li> </ul>
<ul style="list-style-type: none"> <li>• Remove the hood.</li> </ul>	<ul style="list-style-type: none"> <li>• Put the hood in place.</li> </ul>
<ul style="list-style-type: none"> <li>• Switch off the electrical power.</li> </ul>	<ul style="list-style-type: none"> <li>• Switch on the electrical power.</li> </ul>

PRINT HEAD LIFTING HANDLE



HOOD



## ■ CONTROLLER PANEL

### Action/Description



Press to enter set-up mode  
Press to confirm changes



Press to exit without any changes  
Press to step backwards in the menu



Press to go to previous/next menu or item  
Press to decrease/increase a value



Press to restart Print & Apply unit  
Press to perform a label positioning  
**Note:** *This is a configuration, see setup program for more information*



Press to print the grey test label  
Press long to print currently chosen label  
**Note:** *The labels enumeration is not affected*



Press to print a label  
Depending on configuration: reprint last printed label, print a new label, or not print at all

**LEDS****RESET****ERROR****LABEL GAP****POWER****LED lights/flashes to indicate:**

That the system is reset to start the process.

An error in process, for example no labels, no ribbon, print head up etc.


The gap between labels on the roll.

That the power is switched on.

**■ LABEL POSITIONING**

The positioning of the label can be executed in one of two ways depending on the setup.

- **Head close** (default and recommended method)

Lower the print head lifting handle and press the ENTER button  to feed and position the labels

**Note:** *Raise and lower the print head lifting handle to repeat the label positioning.*

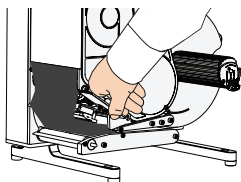
- **Reset/Power up**

Press the RESET button  to feed and position the labels.

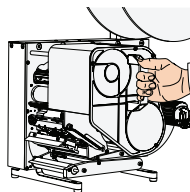
After label positioning, the printer will have measured the length of the labels and is ready for use.

**■ CHANGE RIBBON**

1. Raise the print head lifting handle.



2. Remove the hood.

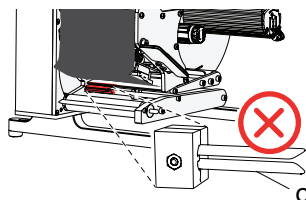
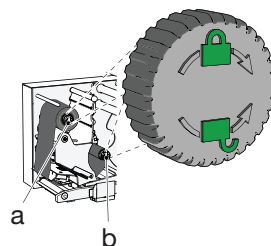


3. Turn the two knobs (a, b) anti-clockwise to release the ribbon rolls.
4. Pull out and remove both rolls.
5. Place an empty roll on the ribbon take-up roll (a).
6. Carefully clean the printer. See page 5 for instructions.
7. Install a new roll of ribbon (b), see threading diagram on the printer for guidance.

**Note:** *The ribbon must NOT pass through the label-gap sensor (c).*

**Note:** *Make sure to install ribbon with ink side out.*

8. Turn the knobs (a, b) clockwise to secure the ribbon rolls.
9. Lower the print head lifting handle, close the peel roller and put back the hood.
10. Perform a label positioning, see above.



## ■ CHANGE LABEL ROLL

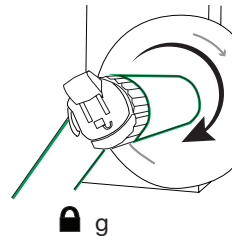
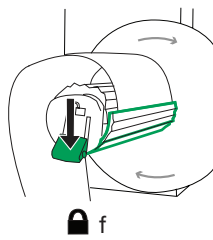
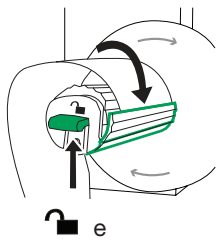
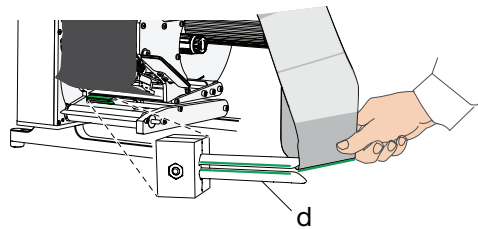
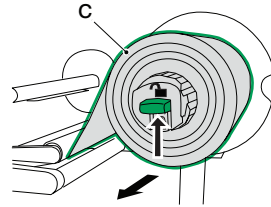
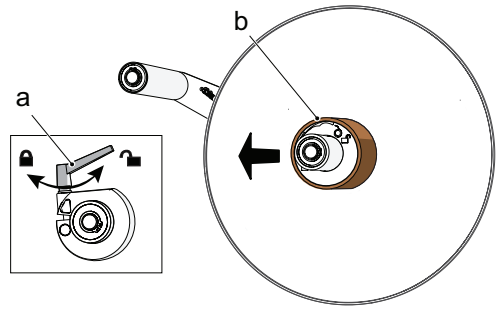
1. Raise the print head lifting handle.
2. Remove the empty label roll (b).
  - Loosen locking hub (a) on the outer disc.
  - Remove the disc and the empty label roll (b).
3. Remove the backing paper roll (c).
  - Open the slot using the lever and release the backing paper roll.
  - Slide out the backing paper roll.
4. Carefully clean the printer. See page 5 for instructions.
5. Install a new label roll and thread according to the threading diagram on the printer.

**Note:** Make sure the labels pass through the label-gap sensor (d).

6. Pull the backing paper to the backing paper re-winder.

**Note:** Make sure this part of the backing paper is free from labels and glue residue.

- Put the backing paper into the slot (e).
- Close the slot using the lever (f). Make sure it is properly closed.
- Turn the roller until the backing paper is tight (g).



7. Lower the print head lifting handle.
8. Perform a label positioning, see page 3.

## ■ MAINTENANCE

**Caution:** *NEVER use any hard, metallic or abrasive objects to remove, adhesives or other contaminants from the print head or any other parts.*

**Note:** *Use only manufacturer's approved cleaning wipes for cleaning the printer.*

### Before cleaning printer

1. Switch off electrical power.
2. Raise the print head lifting handle.

### Clean print head

Clean the print head (b) after every roll of ribbon.



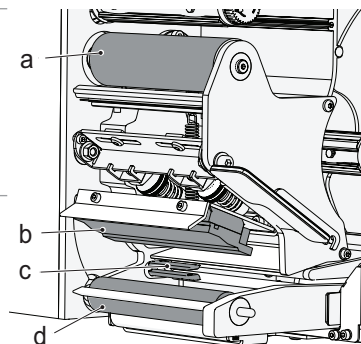
1. Lightly blow or brush away any loose dust and lint particles within the print mechanism.
2. Use the cleaning wipes to wipe the print head.

### Clean platen roller and ribbon take-up roller



1. Gently ease out the labels/ribbon sideways.
2. Rub the cleaning wipes along the platen roller (d)/ ribbon take-up roller (a) and slowly turn the roller by hand until the roller is completely clean.

**Note:** *The electrical power must be off to make it possible to manually turn the roller.*



- a. Ribbon take-up roller
- b. Print head
- c. Label-gap sensor
- d. Platen roller

### Clean label-gap sensor

Clean all paper dust and label parts from the label-gap sensor (c) with compressed air, a small brush or the plastic nozzle of a vacuum cleaner.

**Caution:** *Be careful not to bend the sensor when cleaning it.*

**Note:** *Check that the label-gap sensor is parallel to the label.*

After cleaning the label gap sensor perform a label positioning, see page 3.

### Clean exterior and applicator pad

Clean the exterior of the equipment by wiping with a dry lint-free cloth or, if needed, use a damp cloth and a mild detergent solution.

Remove all dirt, debris and glue residue from the pad using "Label off" spray, or a similar spray for this, avoid spraying on any rubber rollers.

## ■ BASIC CLEANING & MAINTENANCE SCHEDULE

See Product Manual for more information.

DAILY SCHEDULE (10 minutes) ...	WEEKLY SCHEDULE (10-20 minutes)
Clean exterior of equipment.	Carry out DAILY schedule.
Clean assisting blow tube.	Check friction of backing paper re-winder.
Clean label-gap sensor.	Check platen roller and ribbon take-up roller for damage and dirt.
Check that label position is 1mm from dispensing beak.	Check function of machine stop or emergency stop (if fitted).
... OR WHEN CHANGING MEDIA	MONTHLY SCHEDULE (20-30 minutes)
Clean print head.	Carry out DAILY & WEEKLY schedules.
Clean platen roller and ribbon take-up roller.	Check function of the label-gap sensor.
	Check tension of the drive belts.
	Check drive belts for wear.
	Check print head for missing dots.

## ■ TROUBLESHOOTING - FIRST CHECK

Before calling a technician, please check the following problem solutions.

PROBLEM AREA	POSSIBLE CAUSE
Printer fails to print.	Power/air supply not switched on.
	Mains cable is loose.
	Print head is up.
	Print hood is not fitted correctly.
	Labels are not correctly threaded.
	Ribbon is not correctly threaded.
Poor print quality.	Print head is dirty.
	Platen roller is damaged or dirty.
	Incorrect label and/or ribbon material.
Labels do not stop in the correct position.	Labels are slipping on the rollers. Clean all rollers.
	Label-gap sensor requires calibration.
	Platen roller is worn.
Ribbon rewind does not operate correctly.	Ribbon is incorrectly threaded.
Ribbon wrinkles.	Print head wires are touching the ribbon.
	Ribbon is incorrectly threaded.