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LOGIJET T8-3

Operator's Manual

Edition 1.0prelM

microplex
printware ag

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Table of Contents

_____

_____

Chapter   Page

_____

Chapter   Page

_____

_____

1. Introduction

1.1. General Description

The LOGIJET T8-3 is a multifunctional non-impact printer based on thermal print technology.
The device can be used for thermal transfer printing as well as for thermal direct printing. Because of its wide range of application, you can use it to print all kind of information as barcodes, alphanumerical characters and vector graphics e.g. .
This printer not only knows one device-specific page description language as standard thermal printers usually do, but most of the languages used in the industrial field and the well-known market standards of laserprinters, too.
For this printer options are available (for example, cutter).

The LOGIJET T8-3 printer is provided with a controller that is also used in SOLID laserprinters. So the advantages of the thermal print technology are combined with the flexibility of the „laserprinter intelligence".

The MICROPLEX printer controller has its integrated website, this allows a printer configuration via Ethernet. See Networking Features of MICROPLEX Printers for more information.

Data can be sent without programming expenditure from almost any software platform, because printer drivers are already available for this.

The capabilities featured include the MICROPLEX page description language IDOL. Using this language, complex tasks such as the creation of forms can be carried out by simple software commands (see separate IDOL manual).

The resolution is 300 dots per inch corresponding to about 12 dots per mm.
The print speed is up to 6 inch/second (up to 150mm/second).
Roll-fed media as well as continuous-media can be printed on.
The maximum processable width of media for the LOGIJET T8-3 is 241.3mm (9.5"). 219.5mm (8.64") of that are printable.

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1.2. Fundamentals of Thermal Printing

The thermal print technology enables a quiet and fast print process with a high resolution output. The printhead produces the image by heating single elements (dots). So you need a special ribbon (thermal transfer printing) or a special kind of paper (thermal direct printing).
While thermal transfer printing the dots touch the thermal ribbon so that the heating of particular dots leads to a partial melting of the ribbon. Due to the contact with a media (future carrier of the information, for example paper) this leads to a transfer of the image onto the media.
While thermal direct printing the dots touch the thermal paper directly. The dyes and developers within the paper respond to the heat of particular dots, change their colour to black and so the wanted image emerges.

The printer LOGIJET T8-3 can be used for both methods of printing.

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1.3. Conventions

To find the requested information more quickly and to understand instructions more easily, the following conventions are used:

This symbol refers to a possible source of danger. If you do not pay attention to this information, injuries may result, the function of the printer could be reduced or objects could be damaged.

This symbol refers to important hints and suggestions on using the printer. Disregarding these hints might cause problems with the printer or within the environments.

This symbol shows a key of the control panel. Such symbols will be used in this manual whenever keys have to be pressed in order to activate certain functions.

blue colored text

Link to another chapter or a different document. By clicking the blue colored text you'll enter the concerning chapter or document.

[Menu Level 1]

This symbol represents messages shown in the display (panel).

1.4. General Safety Regulations

This device produces, employs and possibly radiates high frequency energy. Because of this, incorrect installation can disturb radio communications.

This MICROPLEX product and its consumables are designed and tested according to strict safety standards.

Heeding the following instructions ensures secure operation:

- Please make sure your electricity source is appropriately grounded.

- Install the device on solid and level ground.

- Only trained staff are authorized to transport the equipment.

- Only use consumables which are specially developed for this device.

- Using unsuitable consumables may cause a reduction of output quality or damages to the device.

- Ensure no liquids get on or into the device.

- Do not remove any cover or safety device fastened by screws.

- Do not remove or bridge over any safety device.

- Do not push anything into the ventilation apertures.

- Never carry out installations, cleanings or maintenance operations which are not described in this manual. This should only be done by MICROPLEX authorized service personnel.

- Be careful when operating equipment with opened cover hoods (setting-up work or service). Rotating parts **can cause injury** , and it is also possible for hair, clothing, jewellery, etc. to be caught in the machinery.
Ribbon and material should only be inserted and changed by specially instructed personnel.

- Optional device components may only be installed by authorized personnel, and in accordance with the appropriate assembly and usage regulations.

- The cutter may only be installed by trained personnel.

- Only attach or remove the printhead when the device is switched off.
After switching off the device, wait at least 3 minutes before removing the printhead.

- Only plug in or remove interface connectors when the device is switched off.

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In order to disconnect the printer quickly from the main power
in case of emergency please note the following:

- For connected printers with plugs, the power-outlet should
  be installed near the printer and easily within reach.

- For permanently connected printers, an easily accessible
  emergency power-off switch should be installed close to the
  printer.

- Please do not conceal any disconnect devices with the
  printer or other objects.

- After switching off the device, wait at least 15 seconds
  before the device is switched on again.

- Please follow all the information and hints directly attached
  to the device and/or described in this manual.

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2. Installation

2.1. Printer Unpacking

1. Open the box and remove the accessory parts.
   Hint: The shipping box etc. of your printer may differ in form and optic from the parts shown in the following 2 figures.

Printer

Box contains accessories
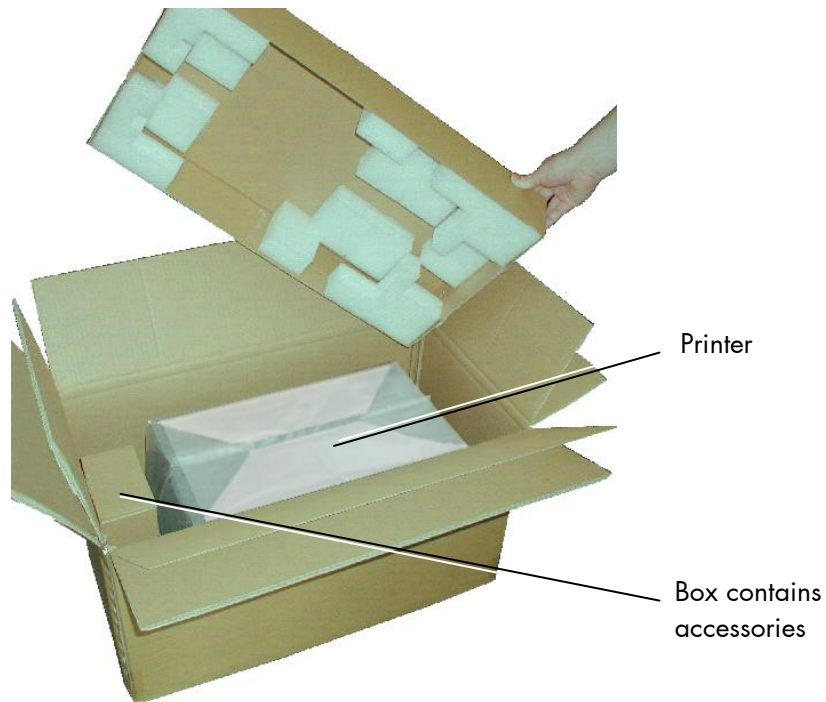
Fig. 2.1.a Printer in the shipping box

2. Take the printer and lift it out the box carefully. Get somebody to hold the box when removing the printer.

Take hold of the printer <u>from the bottom.</u>
Do **not** use other parts of the printer (e.g. plastic parts at the printer's front or rear side ...) to lift the device!

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Fig. 2.1.b Lifting the printer

3.   Remove the foil covering the printer.

4.   Place the printer onto a suitable base (see section 2.3).

Please retain the original packing materials in case the printer has to be transported in the future.

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2.2. Check List

First of all place the printer and the accessories onto a level surface until the definitive location is chosen.

Please make sure that all items are included and that there are no defects.
Immediately inform your supplier of any damage.
Open the cardboard box carefully and check the contents:

1. Printer LOGIJET T8-3
2. Power cord
3. Data cable (USB)
4. empty Ribbon Sleeve (Ribbon Core)
5. CD containing:
   - Operator's Manual for LOGIJET T8-3
   - Print drivers
   - IDOL Programming Manual
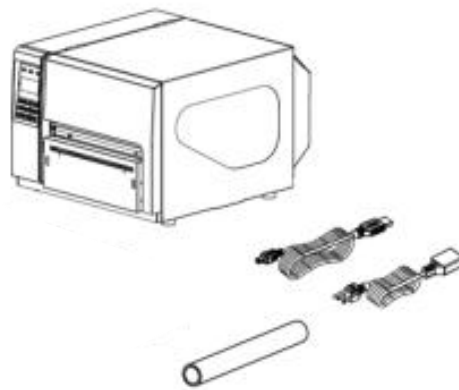
Fig. 2.2.a Printer with accessories

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2.3. Printer Installation

- The chosen location should be well-ventilated, clean and dry.
- Damaging environmental factors such as metal vapors, oil mist, corroding lixivium or the like must not come into contact with the printer.
- Position the printer on solid and level ground.
- Do not exposure the printer to shocks or vibrations.
- The printer and socket have to be easily accessible.
- The printer should not be located near volatile or combustible materials (e.g. a curtain).

- The printer must be connected to an appropriate AC power source 120V AC/60 Hz (North America) or 230V/50 Hz (Europe, United Kingdom e.g.). The power source must be properly grounded. The socket and power cords must not be damaged.
- Use the printer only within the allowed fluctuation range of ±10%.
- The voltage support must not be impaired by interference.

- In order to run the printer reliably, please maintain the following environmental conditions:

    Temperature: +5°C to +40°C (operating)
                                 -40°C to +60°C (storage temperature)
    Relative atmospheric humidity: 20% to 85% (without condensation)

- Do not expose the printer to abrupt temperature changes (heating, window or air condition).
- The printer should not be exposed to direct sunlight.

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2.4. Printer Components

Main view:

Cover
Open to insert material
and foil.

LCD Display

Control Panel
6 keys; displays printer
operation status, enables
settings via the menu.

Fig. 2.4.a Main view of the printer LOGIJET T8-3

Window
Check the material / foil
supply without opening
the cover.

Handle to
open the
cover
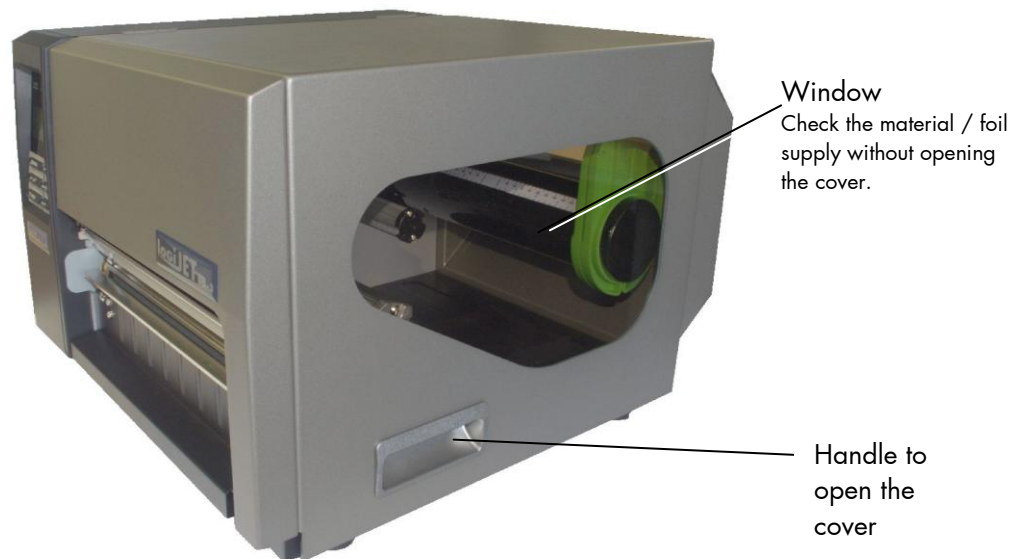
Fig. 2.4.b Side view of the printer

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Interfaces

Power socket

Power switch

Fig. 2.4.c Rear view of the printer

Connector for
the optional
WLAN –
Antenna

IEEE 1284
(Centronics)

RS232/RS422
(Optional)

USB Device Port

Slot for optional
SD cards

USB Host Port

Network interface
(Ethernet)
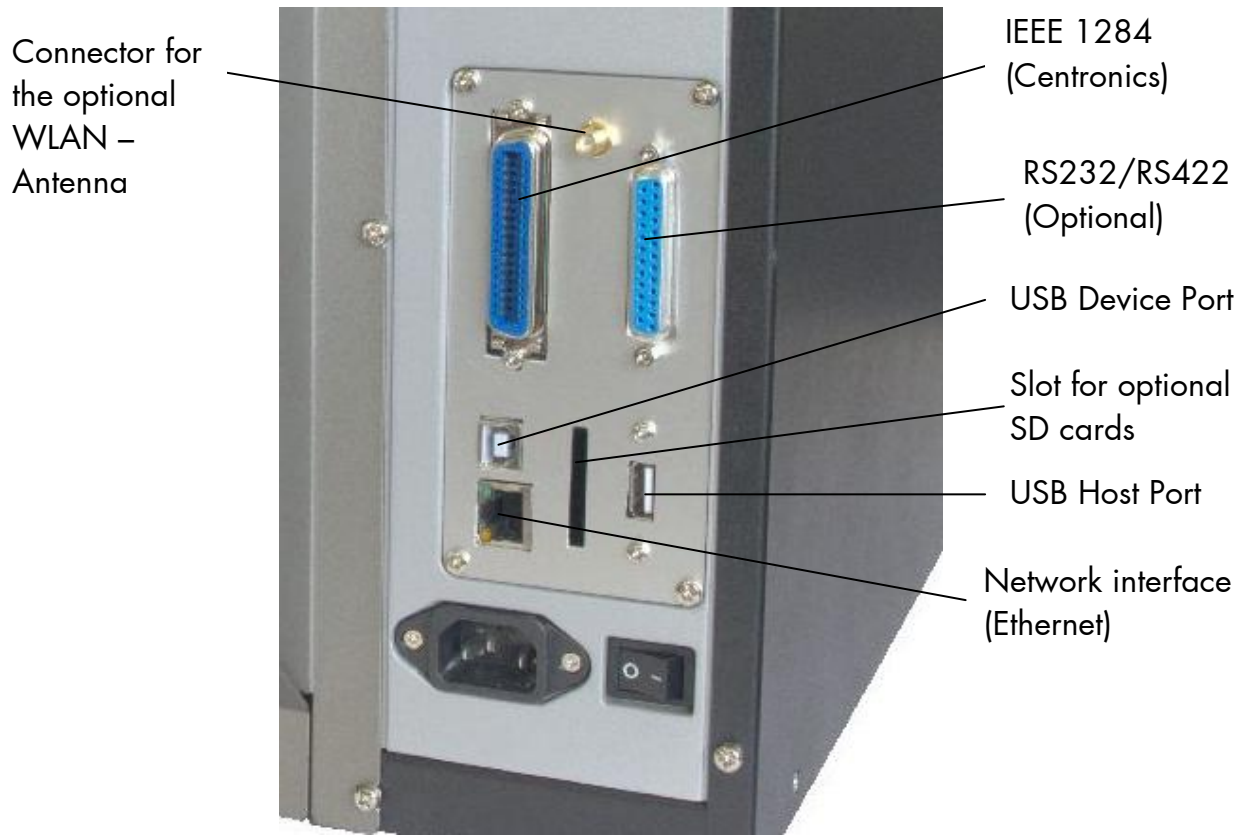
Fig. 2.4.d Detail: Interfaces of the LOGIJET T8-3

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Ribbon rewind
spindle

Ribbon supply
spindle

Media supply
spindle

Printhead

Printhead release
lever

Control
panel

Gap Sensor
(GAP)
(Material/Media Sensors; green)

Reflex Sensor
(Blackmark)

Tear off edge
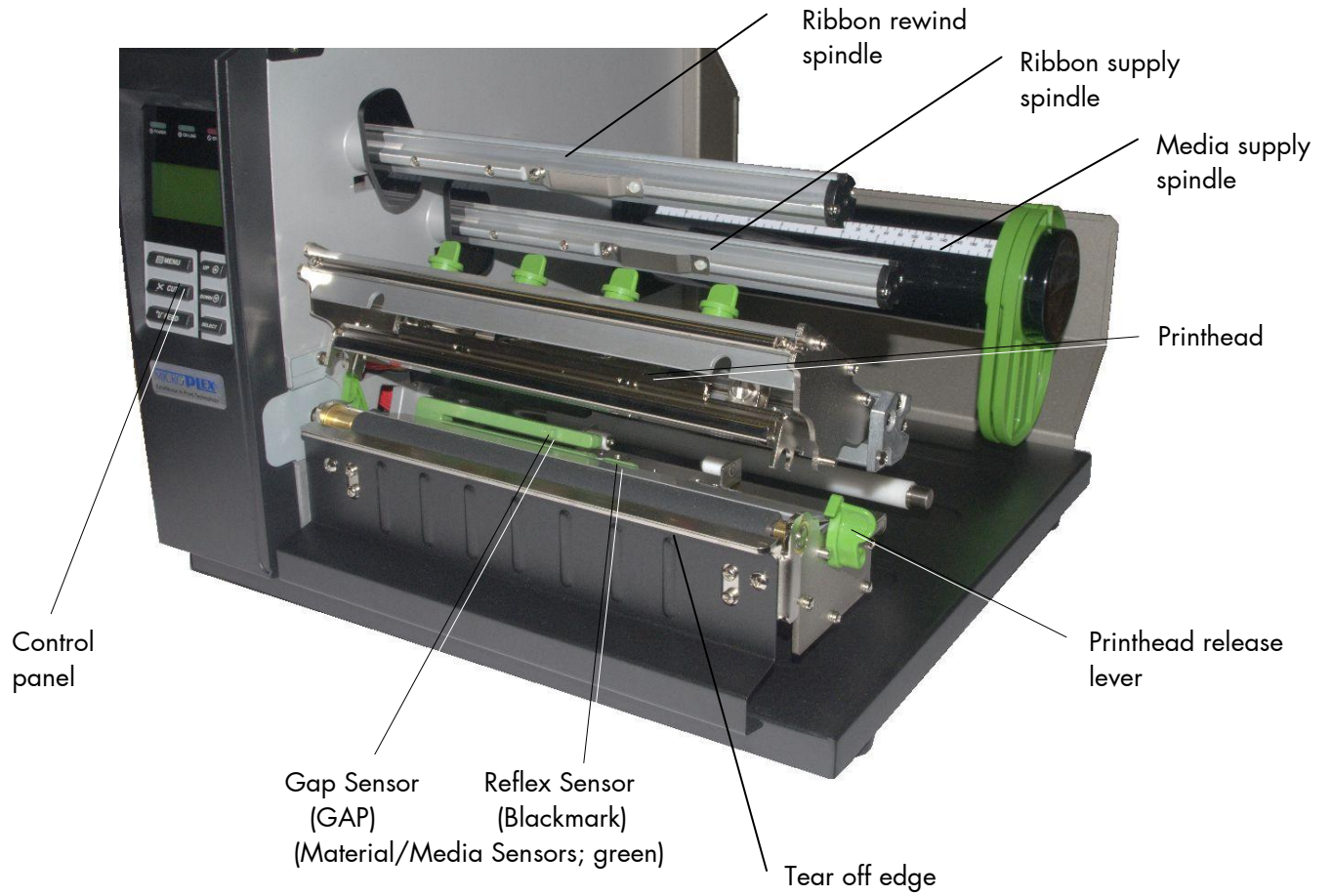
Fig. 2.4.e Inside View of the printer

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3. Basic Operation Sequences

3.1. Overview

```
                              ( start )
                                 |
          ( selecting and adjusting the Sync sensors )
                          see chapter 6
                                 |
              ( print process selecting )
                       see chapter 6
                 /                            \
        thermal direct                    thermal transfer
             |                                  |
    [ ribbon removal ]              [ ribbon loading ]
       see chapter 4                    see chapter 4
             |                                  |
             |                  [ ribbon unwinding setting ]
             |                          see chapter 6
             |                                  |
             [ media loading ]
                see chapter 4
                     |
        [ printhead pressure adjusting ]
                see chapter 4
                     |
         ( media (material) setting )
                see chapter 6
          /                         \
       label                      continuous
          |                           |
    ( material transport zero position adjusting )
                see chapter 6
                     |
       ( page length /paper width setting )
                see chapter 6
                     |
            ( margin setting )
                see chapter 6
                     |
                     V
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If the panel settings above shall be effective permanently (that means they do not have to be put in again after a printer OFF/ON) the setting values can be saved permanently by operating the ENTER key two times.

An output of the current setting values can be generated using the "Printing the Status Sheet" panel function (see section 6.9).

Detailed information on the operations above and to further functions of the printer LOGIJET T8-3 can be found in the following chapters.

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4. Handling of Consumables

Pay attention to the following safety instructions and the instructions listed in section 1.5, too!

Safety instructions:
- The cutter (optional device of your printer) can cause injuries if the printer is operated incorrectly.
- There is a danger of fingers, hair, clothing, jewellery etc. being drawn into the machine in the vicinity of the material transport unit.
- Be careful when operating equipment with opened cover hoods (setting-up work or service). Rotating parts can cause injury, and it is possible for hair, clothing, jewellery, etc. to be caught in the machinery.
- Print material should only be inserted and changed by specially instructed personnel.

For thermal direct printing it is not allowed to load a ribbon to avoid damaging the printhead. Make sure your settings using the control panel and display respectively via interface (see chapter 5 and 6) fit to the printer implementation (ribbon inserted /not inserted).

Ribbon and material should only be inserted/exchanged by specially instructed personnel.

4.1. Winding Diagram

Ribbon roll

Ribbon rewind spindle

Ribbon supply spindle

Media supply spindle

Printhead unit

Printhead release lever

Material roll (Label)

Media sensor

Ribbon sensor

Media guide bar

(2 moveable sensors: Gap and Blackmark)
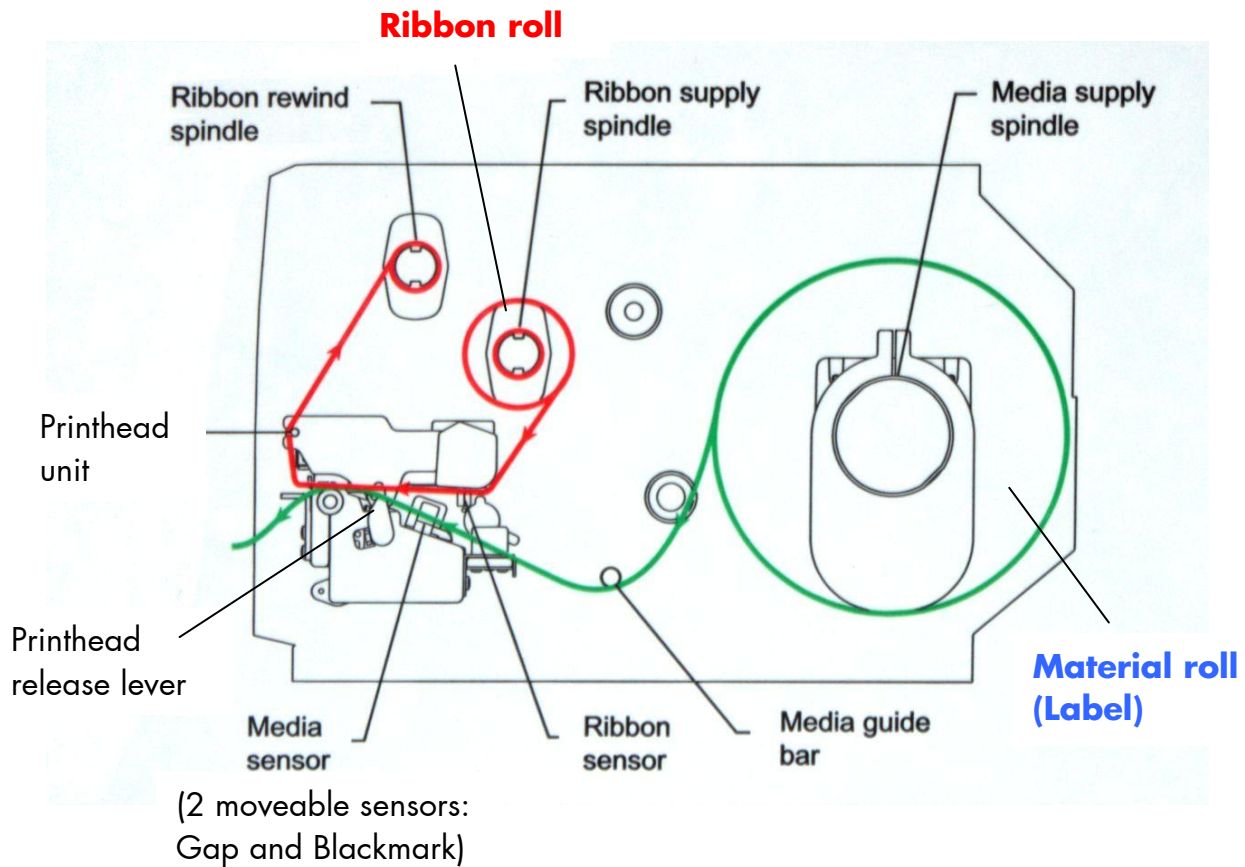
Fig. 4.1.a Winding directions of material and ribbon (here: ink outside the roll)

The diagram above shows the usual winding directions of material and ribbon.
Pay attention to the different ribbon roll winding directions described in section 4.2.1 Ribbon Loading. The figure above shows the winding directions for "Ink outside the roll" ribbons. Also pay attention to the instructions located on the inside of the printer hood.

4.2. Handling of Ribbon (Foil)

4.2.1. Ribbon Loading

If you want to operate the printer in the thermal transfer mode a printer ribbon has to be used (compare section 1.1).

Make sure you always use a printer ribbon being wider than the media to print on. In the case of printing on abrasive media printhead damaging can be avoided this way.

To set the ribbon go on like this:

1.   Switch the printer to OFF LINE mode.

2.   Open the printer hood completely.

3.   Push the printhead release lever clockwise to open the print head mechanism.
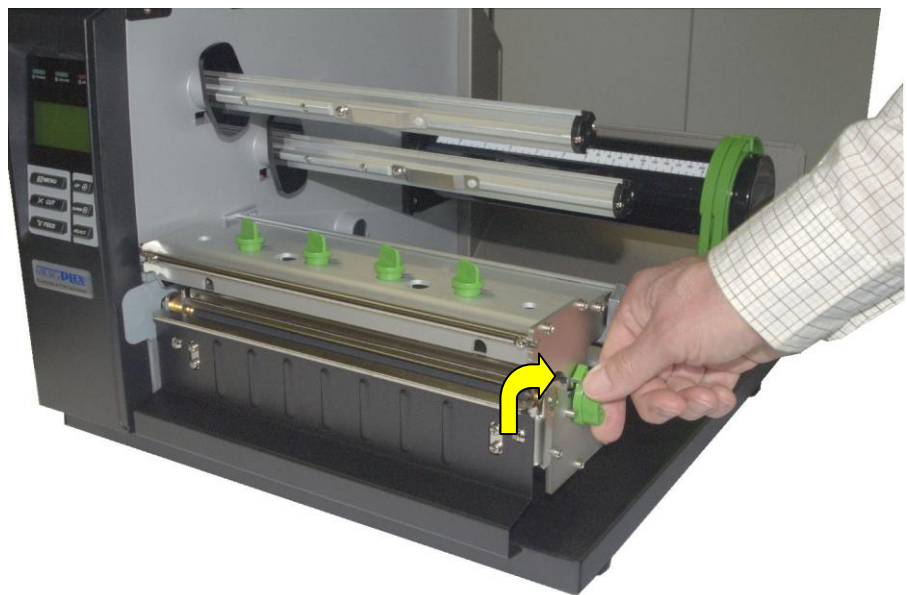
Fig. 4.2.1.a Pushing the printhead release lever clockwise

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Printhead mechanism opened
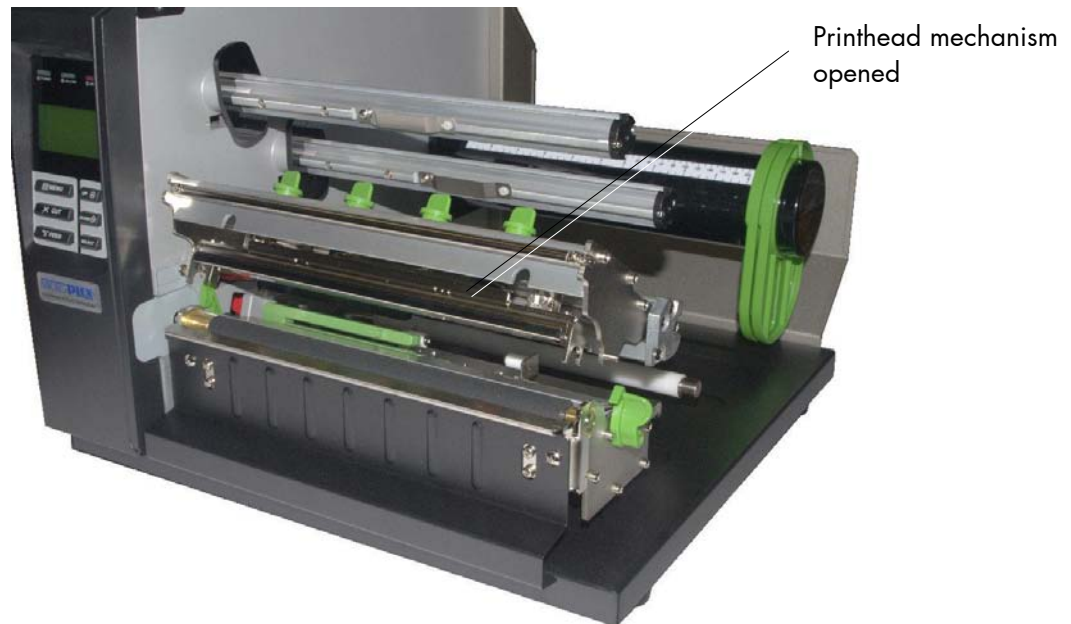
Fig. 4.2.1.b Printer with opened (released) printhead

4.   Take the ribbon roll and remove the protection foil, if necessary (by unwinding it and cutting it off).

5.   Find out the right winding direction for your ribbon roll:

Ribbon outside
(Ink outside the roll).

Ribbon inside
(Ink inside the roll).
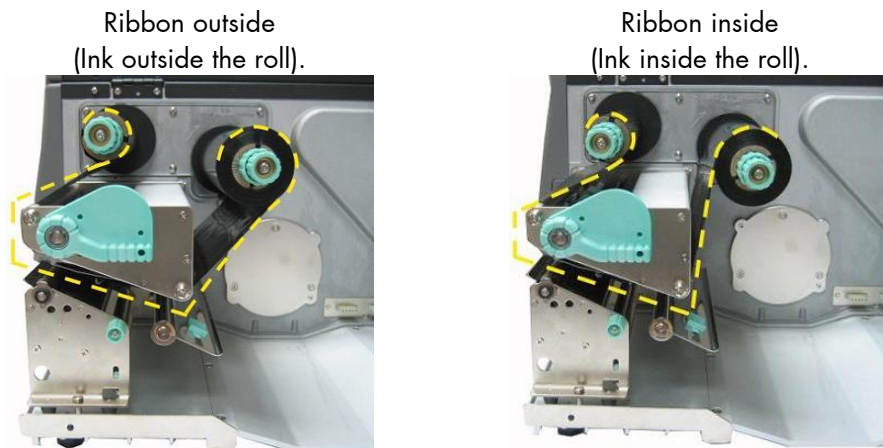
Fig. 4.2.1.c Schematic figures: Different ribbon roll winding directions

6.   Use the appropriate panel function to adjust the printer to the current winding direction.
See section 6.3 Ribbon Unwinding Setting (Ink Inside or Outside).

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7.   Slide the empty ribbon sleeve (ribbon core; extent of supply)
      onto the ribbon rewind spindle.
      Please note: The ribbon sleeve has to be mounted centered,
      use the scale on the rewind spindle for this operation.

Scale on the
Ribbon rewind spindle
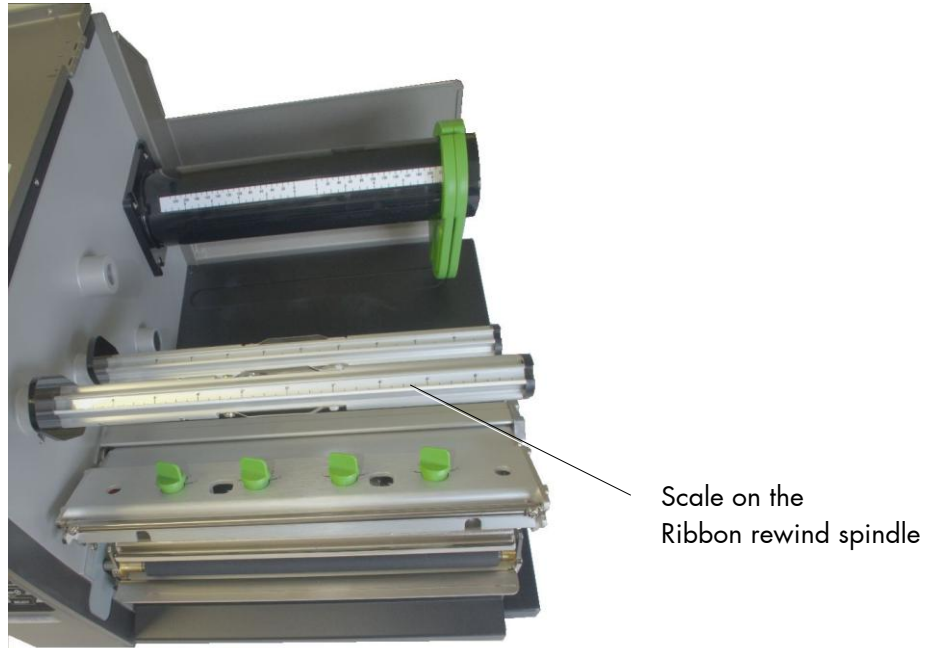
Fig. 4.2.1.d Scales are located on the printers supply spindle

Adjusting the empty
ribbon sleve on the
printer´s ribbon
rewind spindle
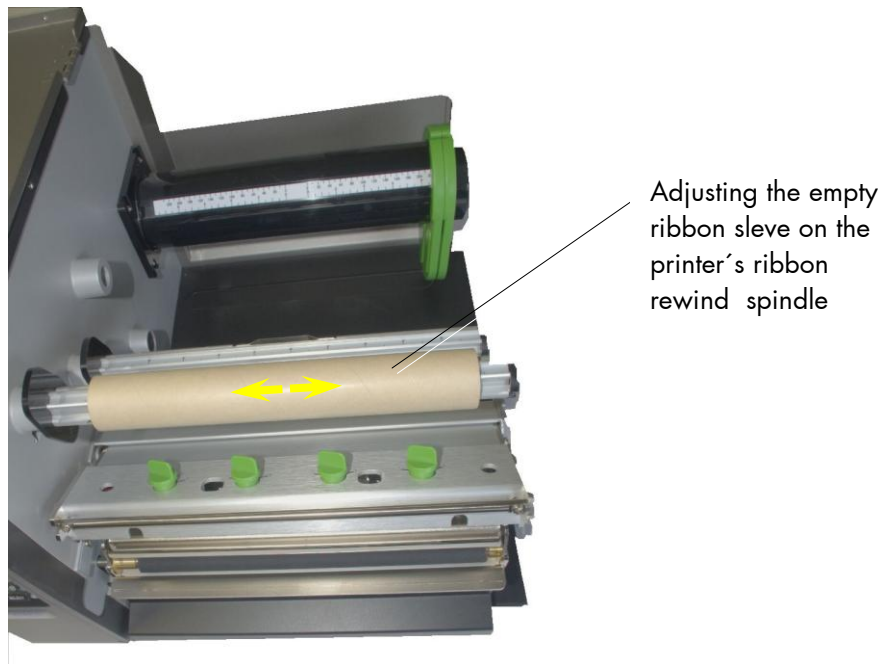
Fig. 4.2.1.e Empty ribbon sleeve mounted centered

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8.   Slide the ribbon roll onto the ribbon supply spindle.
      (Please note: it has to be mounted centered; compare step 6)

Ribbon roll
mounted to the
ribbon supply spindle
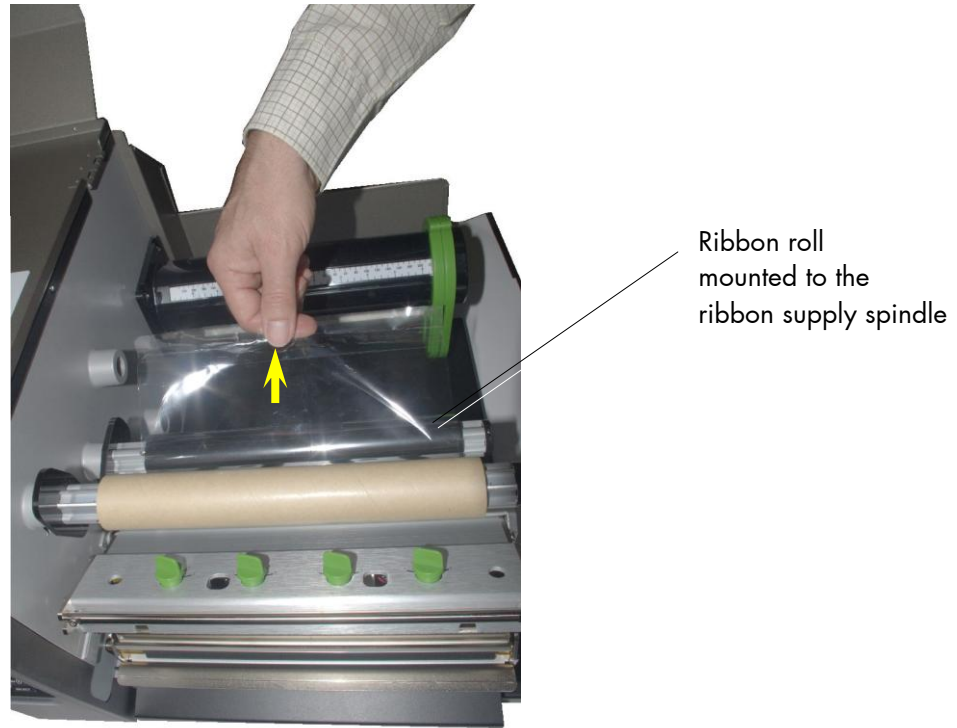
Fig. 4.2.1.f Ribbon roll mounted centered and endof foil already peeled of

9.   Route the ribbon around the printhead without folds.

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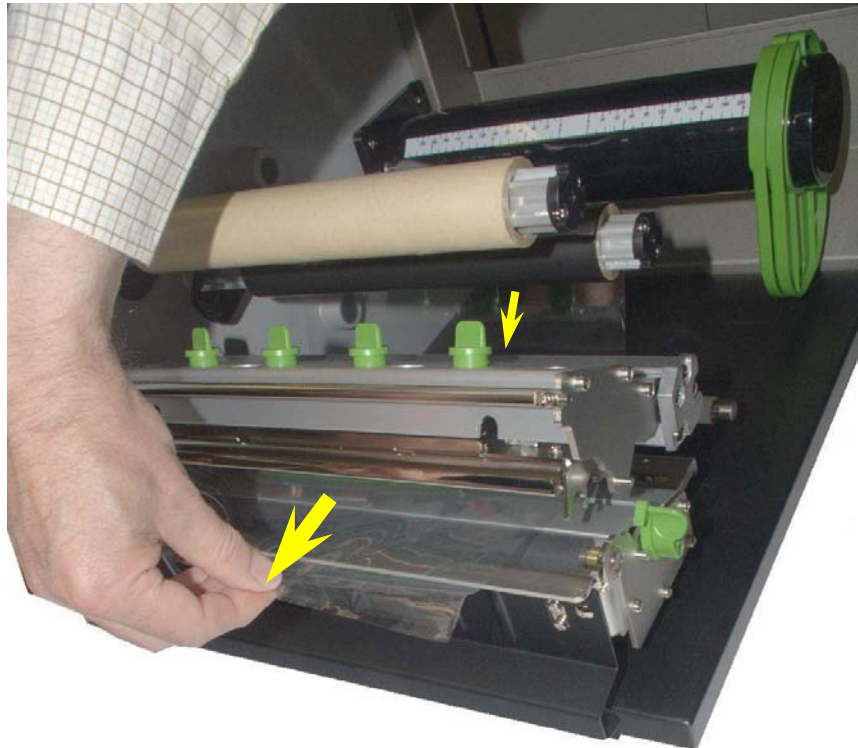
Fig. 4.2.1.g Foil already routed below the printhead

☞   Please note: the ribbon has to be routed <u>above</u> the ribbon sensor
            (see the black part in the following figures).
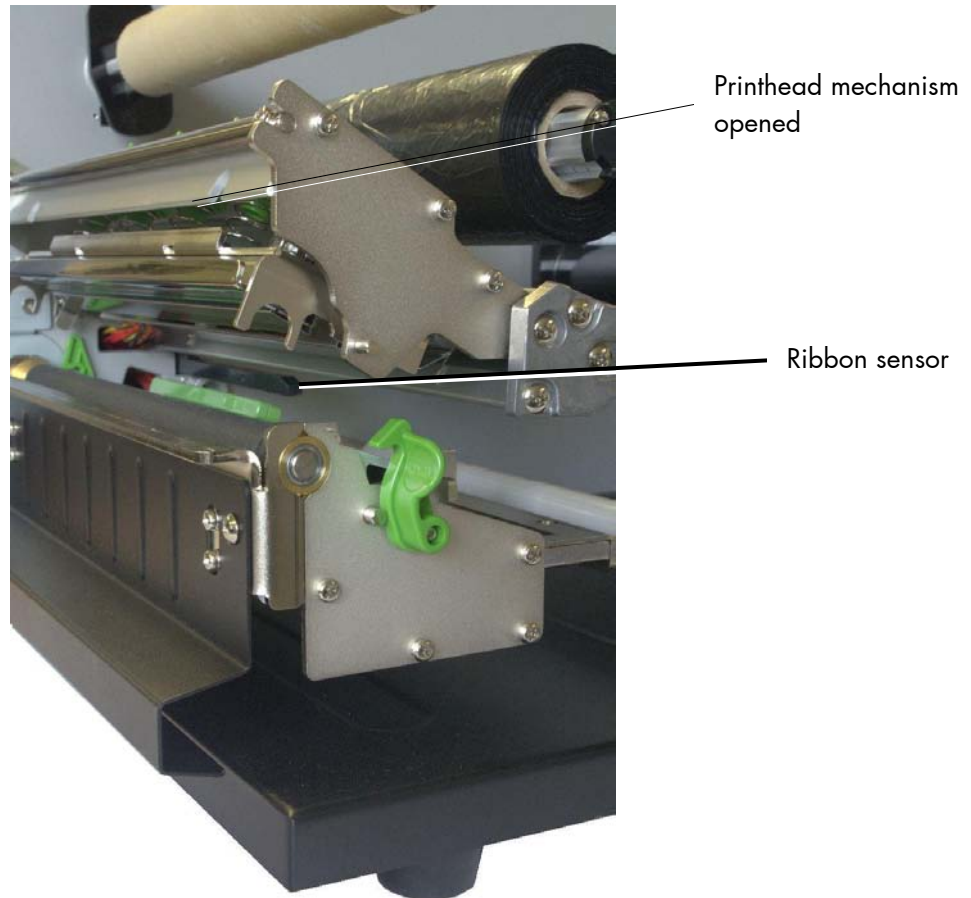
Fig. 4.2.1.h Location of the ribbon sensor inside the printer
(here still without ribbon)
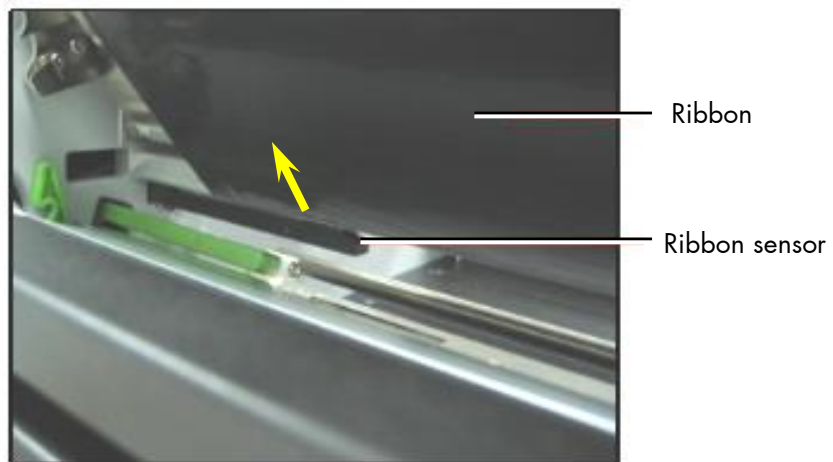
Fig. 4.2.1.i Ribbon routed through the ribbon sensor slot
in the right way

10. Route the ribbon to the rewind spindle and fasten it to the ribbon sleeve (turn up the ribbon once so that the adhesive part at the beginning of the ribbon can be used. Adhesive tape can be used, if need be).

☞ Make sure that the ribbon rewind direction is correct. (Compare figure 4.2.1.c.)
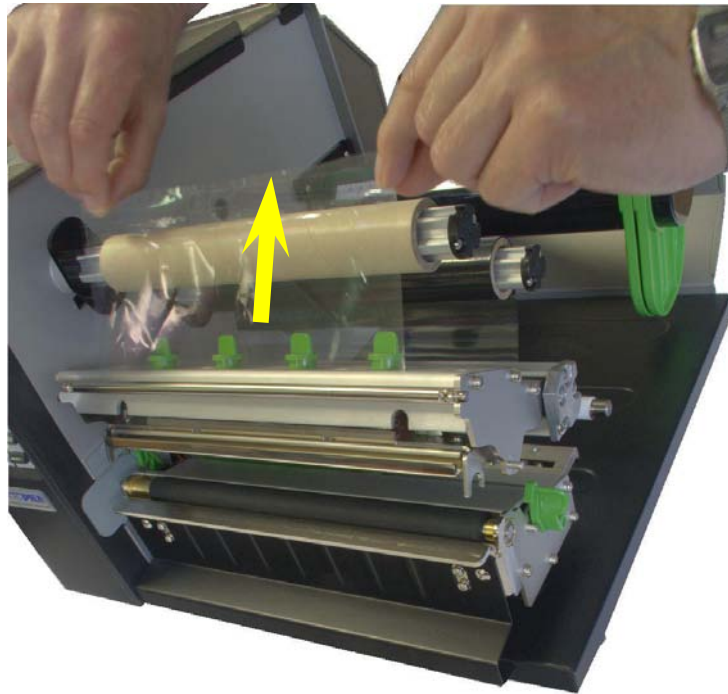
Fig. 4.2.1.j Routing the ribbon to the rewind spindle and fasten it

11. Wind the ribbon rewind spindle clockwise 3 to 5 rotations to tauten the ribbon.

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Ribbon rewind spindle
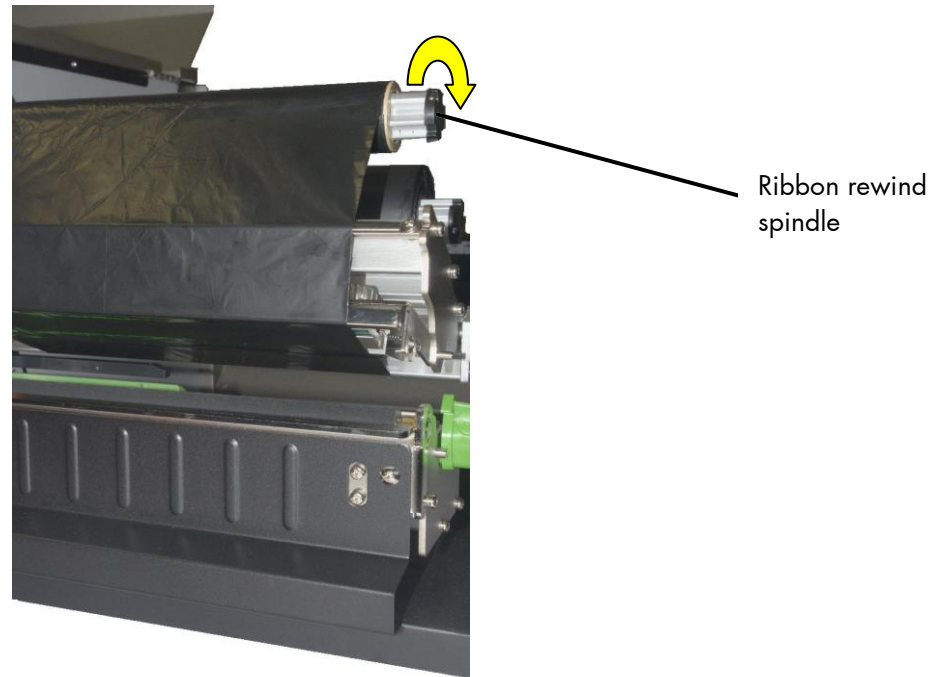
Fig. 4.2.1.k Tautening the ribbon by winding the ribbon rewind spindle

12. Check that the ribbon has no folds and is running straight.
     If necessary, tauten the ribbon a little bit more by further
     winding of the ribbon rewind spindle. Finally the ribbon has
     to be firmly attached to the ribbon sleeve.

13. Swivel the printhead mechanism back to its original position
     using both hands and making sure it clicks into place (force
     is needed).

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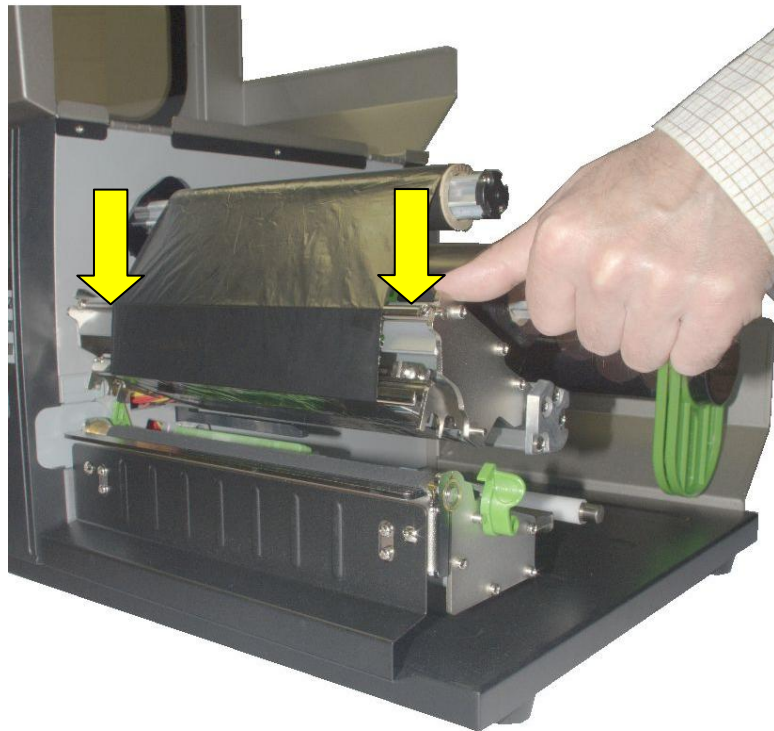
Fig. 4.2.1.l Swivelling the printhead mechanism with both hands down until it clicks into place

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4.2.2. Ribbon Removal

The following steps are necessary if you want to switch from printing in the thermal transfer mode to printing in the thermal direct mode. In case only a used-up ribbon has to be removed the steps 5 and 6 have to be omitted.

1. Switch the printer to OFF LINE mode.

2. Open the the printer hood completely.

3. Push the printhead release lever clockwise to open the print head mechanism.

4. The core of a used-up ribbon can be removed by pulling it from the ribbon supply spindle.

5. If the inserted ribbon is not used-up, cut it close to the ribbon rewind spindle.

6. Rotate the ribbon supply spindle until the free end of the ribbon is winded up.

The unused ribbon can remain within the device until it is used for the next thermal transfer operation (if necessary protect the ribbon against unintentional unwinding).
The ribbon has to be loaded as described in section 4.2.1.

7. Rotate the rewind spindle until the free end of the used-up ribbon is winded up.

8. Remove the used-up ribbon from the rewind spindle and dispose it according to the rules.

The media for thermal direct printing has to be loaded as described in section 4.3.1.

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4.3. Roll-Fed Media Handling

4.3.1. Roll-fed Media Loading

To load roll-fed media for tear off respectively for further external processing go on like this:

☞ The tear off roll-fed media is easier to insert if the end is gored before inserting as shown in the figure below (when using a new roll you should first remove the protection foil if necessary and discard one full turn of the media).
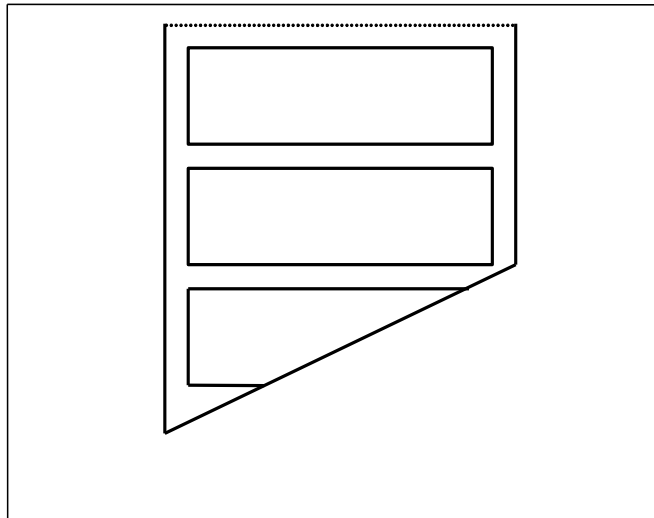
Fig. 4.3.1.a Goring the tear off roll-fed media

1.   Switch the printer to OFF LINE mode.

2.   Open the printer hood completely.

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Fig. 4.3.1.b Opening the printer hood

3.   Remove one label roll guide (the front one which is facing
      the viewer; the second label roll guide has to stay on the
      label supply spindle).

Front
Label roll guide
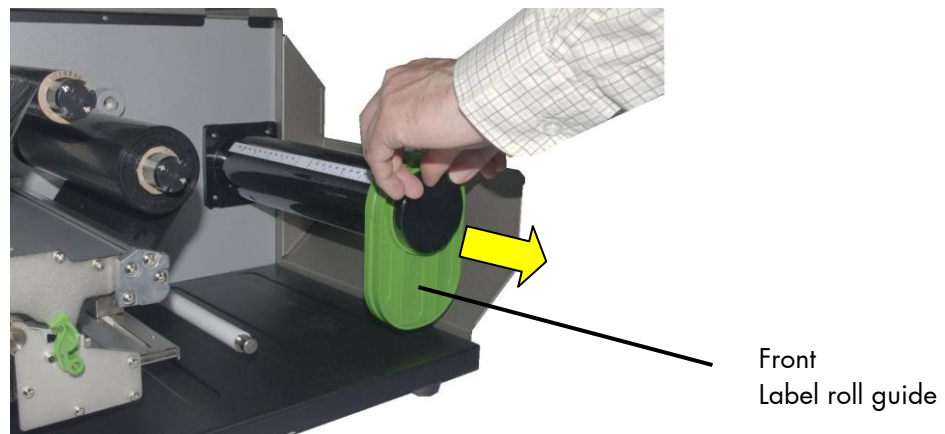
Fig. 4.3.1.c Removing one label roll guide

4.   Move the remaining second label roll guide backwards on
      the lable supply spindle.

Fig. 4.3.1.d Movingthe secnd label roll guide backwards

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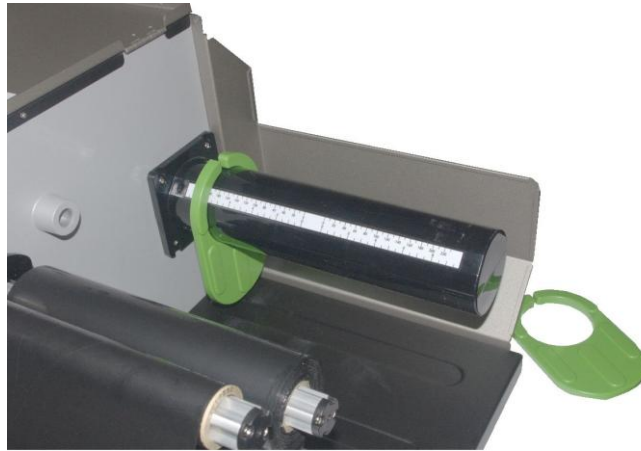
Fig. 4.3.1.e Printers label roll supply spindle ready for the label roll

5.   The media roll must turn counterclockwise when unwinding.
       Take the Tear off roll-fed media and hold it in the
       corresponding way.

6.   Slide the media roll onto the printer's label roll supply spindle.
       Please note: The media roll has to be mounted centered, use
                          the scale on the supply spindle for this operation.
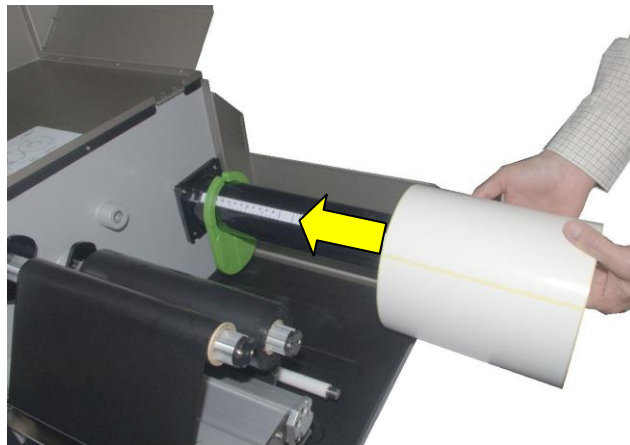
Fig. 4.3.1.f Sliding the media roll onto the label roll supply spindle
                   and then centering the media roll

7.   Reassemble the front label roll guide and move both guides
       towards the media roll.
       Please note: The media roll still has to be in a centered
                          position on the label roll supply spindle after that.

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Fig. 4.3.1.g Reassembling the front label roll guide
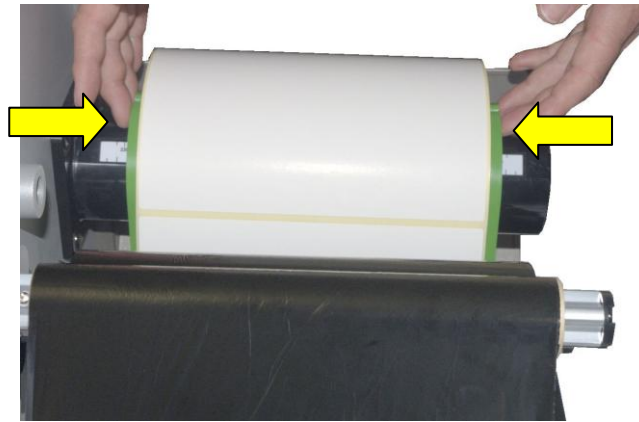
Fig. 4.3.1.h Moving both label roll guides towards the media roll

8.   Take the free end of the label roll and route it towards the printhead as shown in the folling figure.
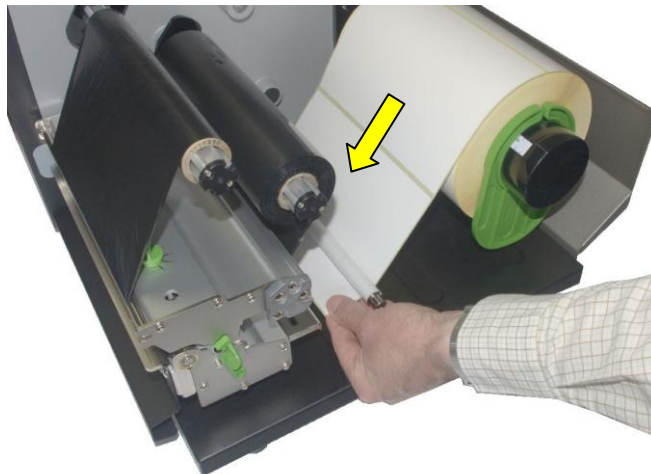
Fig. 4.3.1.i Routingthe free end towards the printhead

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9. Push the printhead release lever clockwise to open the print head mechanism (compare figure 4.2.1.a, too).
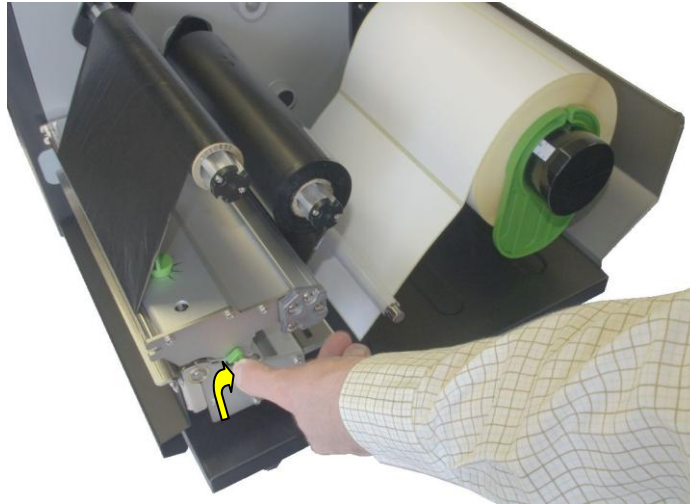
Fig. 4.3.1.j Pushing the printhead release lever

10. Slide the material guide to its outermost position (maximum throughput width).

Fig. 4.3.1.k   Adjusting the material guide to the maximum throughput width

11. Feed the label material through the printer and out of the printer passing the media sensor (therefore you have to feed the label material through the "fork" of this sensor). Compare figure 2.4.e to locate this part of the printer.

_____
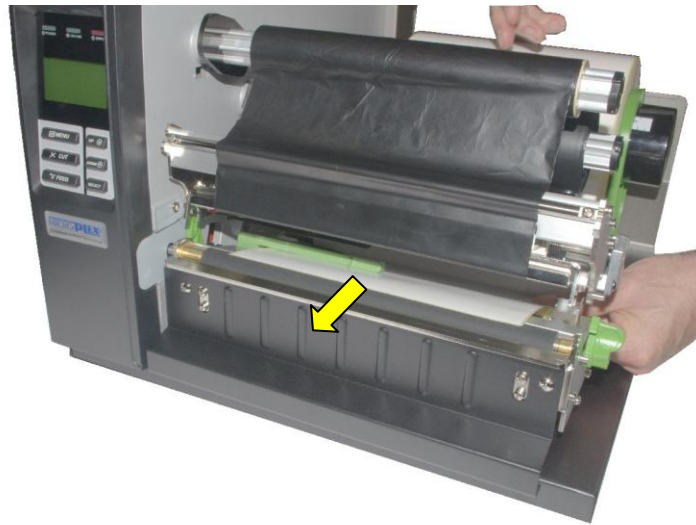
Fig. 4.3.1.l Feeding the media out of the printer

12. Align the media in a centered position to ensure a straight
     transport.
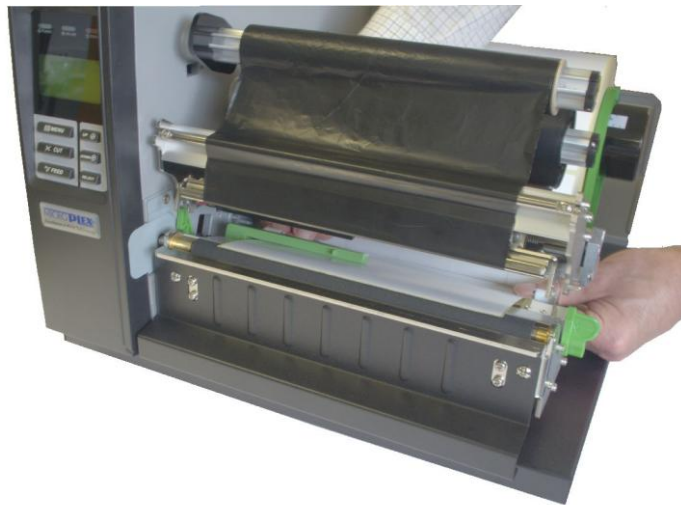
Fig. 4.3.1.m Centering the media inside the printer

13. Adjust the material guide to the current material widh
     without deforming the material (see the following figure and
     compare figure 4.3.1.k).

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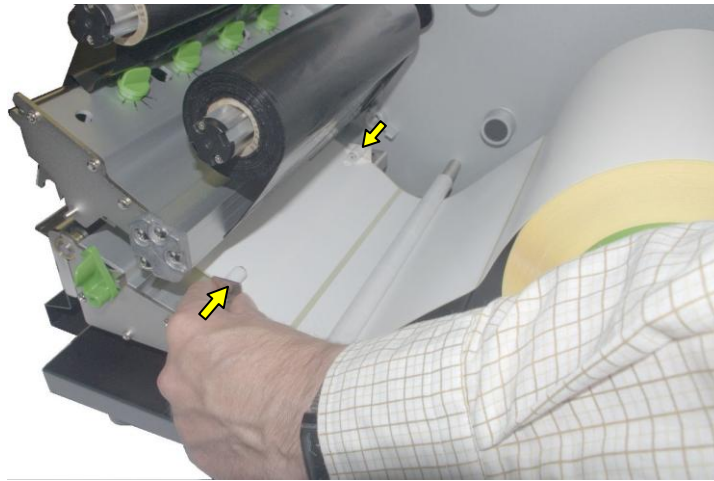
Fig. 4.3.1.n Adjusting the material guide to the current material

14.   Please adjust the sensors of your printer to your current
      consumables:
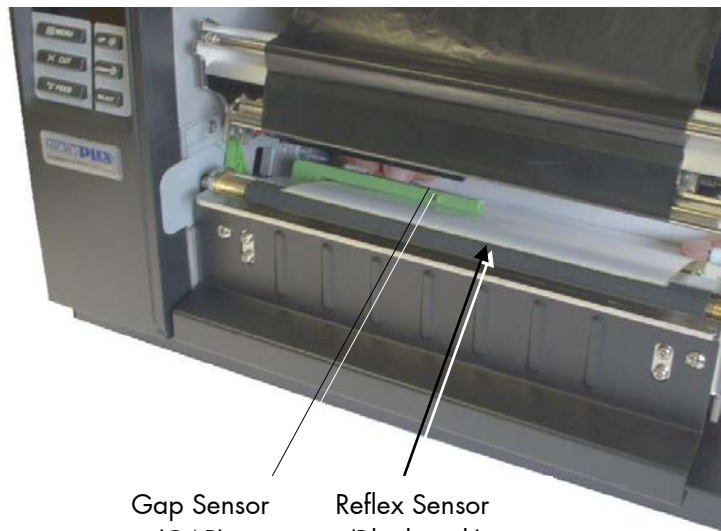
Gap Sensor   Reflex Sensor
   (GAP)   (Blackmark)
(Material/Media Sensors; green)

Fig. 5.3.1o Preview: Position of the Sensors

15.   **Details** are described **in** section 6.1.2   **Checking and
      Adjusting the Sensors** and in the following sections,
      where the associated panel functions are described.

_____

16. Swivel the printhead mechanism back to its original position
     using both hands and making sure it clicks into place (force
     is needed).
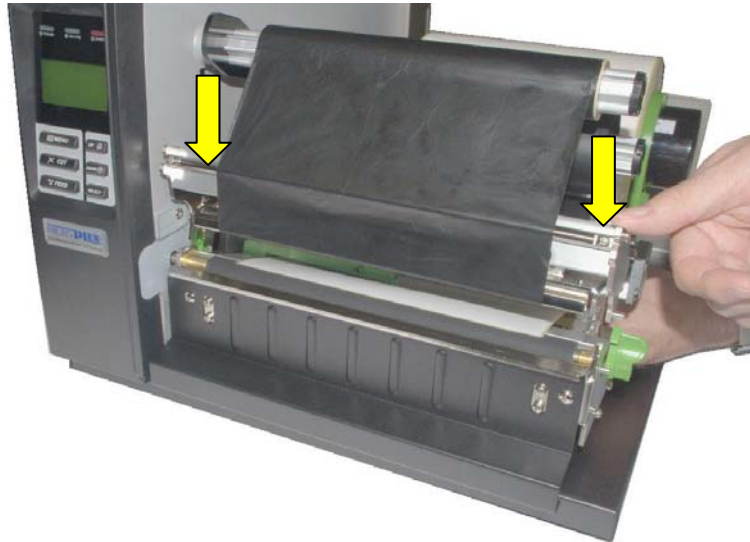
Fig. 4.3.1.p Swivelling the printhead mechanism down until it clicks into place

Please note: The printer now is ready to print using the _thermal
            transfer_ process.
            If you want to print using the thermal direct
            process, you first have to remove the ribbon (foil).

Fig. 4.3.1.q Printer ready for thermal transfer printing

_____

Pay attention to the following safety instructions!

Safety instructions:

- The cutter (optional) can cause injuries if the printer is
  operated incorrectly.
- There is a danger of fingers, hair, clothing, jewellery etc.
  being drawn into the machine in the vicinity of the ribbon
  and media transport unit.

17. Close the hood of the printer.

18. Before starting the printer first please read chapter 5
     Operation and Menu Structure.

19. Use the printer's control panel to select the appropriate
     print process.
     Details are described **in** section 6.2
     Print Process Selecting.

20. Wird ein Farbband verwendet, muss am Bedienfeld auch
     die richtige Farbbandabwickelrichtung eingestellt werden.
     Details are described **in** section 6.3
     Ribbon Unwinding Setting (Ink Inside or Outside).

_____

4.3.2. Media Removal

1. Switch the printer to OFF LINE mode.

2. Open the hood of the printer.

3. Push the printhead release lever clockwise to remove the media (see section 4.1 Winding Diagram) and pull away the material to the rear.

4. Rotate the tear off roll-fed media roll clockwise until the free end of the media is winded up.

5. Remove the roll with the tear off roll-fed media (if necessary protect the media against unintentional unwinding first).

6. Close the hood of the printer.

_____

4.4. Printhead Pressure Adjusting

In the factory this printer is set to the optimum values for the standard printing application. The printout quality and the occurrence of ribbon wrinkles, however, depend on a large number of factors.
In particular the current material width and/or material thickness have an large effect on the contact pressure of the thermal printhead on the media and the platen roller.

To allow a compensation of such influences, the contact pressure of the printhead is adjustable by 4 adjustment knobs.

The 4 green adjustment knobs are located above the printhead:
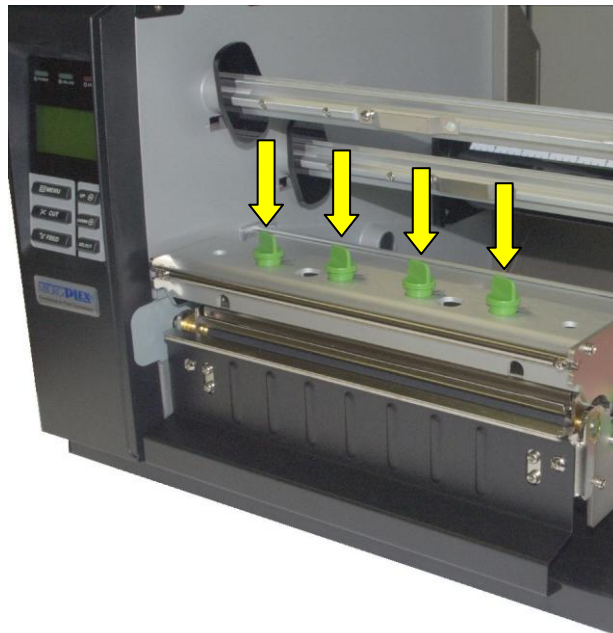
Fig. 4.4.a Printhead contact pressure: Position of the 4 adjustment knobs

Please note:

- Printing should always be carried out with the lightest contact pressure possible for creating a satisfactory print quality. This protects the printhead and the entire device.

- Excessive contact pressure can result in premature wearing of the printhead.

_____

A) **Printhead pressure adjusting in a ballanced way**:

1.   Open the printer hood completely.

2.   Push the printhead release lever clockwise to open the print head mechanism.

3.   If you want a better accessibility to the 4 green adjustment knobs you can temporarily remove the ribbon first (compare section 4.2.2 Ribbon Removal).

4.   Please adjust the printhead pressure in the desired direction by **adjusting all 4 adjustment knobs in the same way**.

Using the green adjustment knobs 5 levels for the prindhead pressure can be choosen; level 1 causes the lowest pressure. Adjusting the knobs clockwise will increase the printhead pressure.

5.   Swivel the printhead mechanism back to its original position using both hands and making sure it clicks into place (force is needed).

6.   Generate a test print.

7.   Repeat step 2 to 6 until you are satisfied with the printout quality.

_____

B) **Printhead pressure adjusting on one side**:

If (only) one side of the media is printed with good printout quality or ribbon wrinkles occur, you have the possibility to choose an **"asymmetrical setting" for the adjustment knobs**. This allows an corresponding optimization of the printhead pressure.

Please note: Before choosing such an "asymmetrical setting" you should check the handling of all consumables first (compare chapter 4). If, for example, one of the ribbon rolls isn't mounted centered this already might be the cause of wrinkles.

If an "**asymmetrical setting**" for the printhead is indeed necessary, the adjustment knobs have to be divided into two groups:

Adjustment knobs left side

Adjustment knobs right side
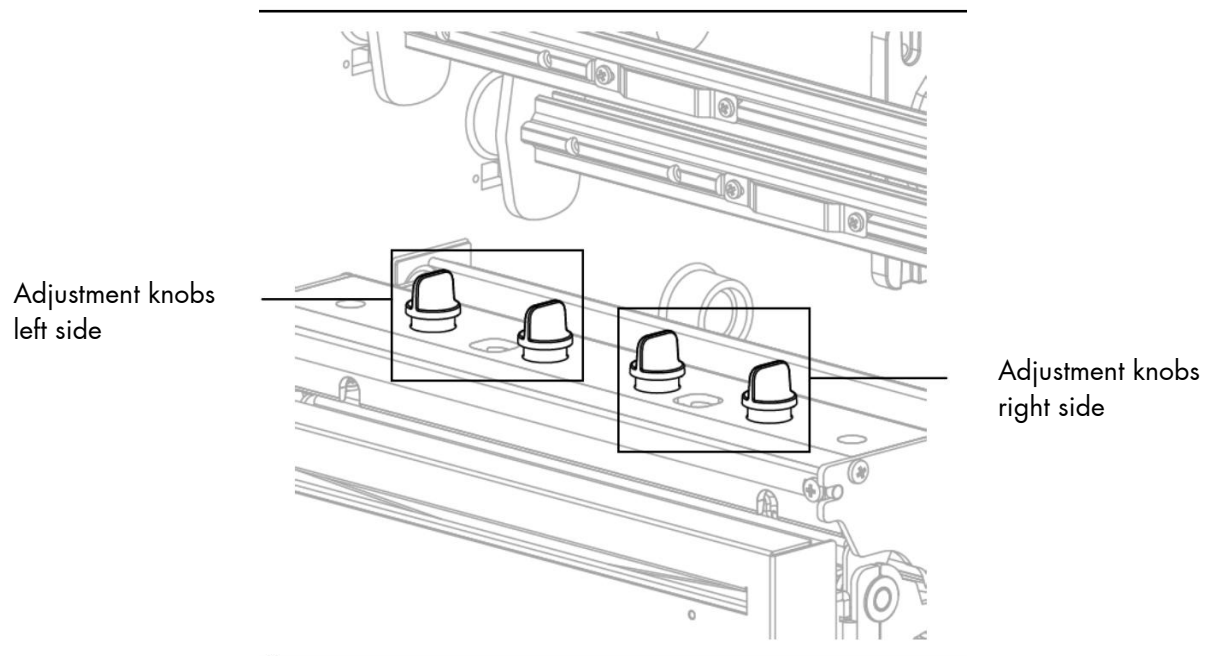
Fig. 4.4.b Printhead pressure: Dividing the Adjustment knobs in two groups

Adjust the printhead pressure in the desired manner by adjusting **either te right side adjustment knobs or the knobs of the left side**.

_____

Hints for the error situation „Ribbon wrinkles":

- Use the last test print to check the „direction" of the wrinkle.
The wrinkle can happen from the lower left to the upper right
direction (error image „ ´ "; seen in the printer's feed direction).
On the other hand the wrinkle can happen from the lower right
to the upper left direction (error image „ ` ").

 - **Error image „ ´ "** : First of all please reduce the printhead
pressure on the **right side** by adjusting the 2 adjustment knobs
of the right side both about one step **counterclockwise.**
If both adjustment knobs already show level „1" (i.e. the lightest
contact pressure is already chosen) then please increase the
printhead pressure on the **left side** by adjusting the 2 adjustment
knobs of the left side both about one step **clockwise**.

- **Error image „ ` "** : The descriptions from above shall also
apply by analogy – you only have to interchange the words
„right" and „left".

- Generate a test print.

- Repeat the steps described above until you reach a satisfactory
print quality.

_____

5. Operation and Menu Structure

5.1. Attaching the Printer to a Network/PC

Interfaces

Socket for the
power cord

Power switch
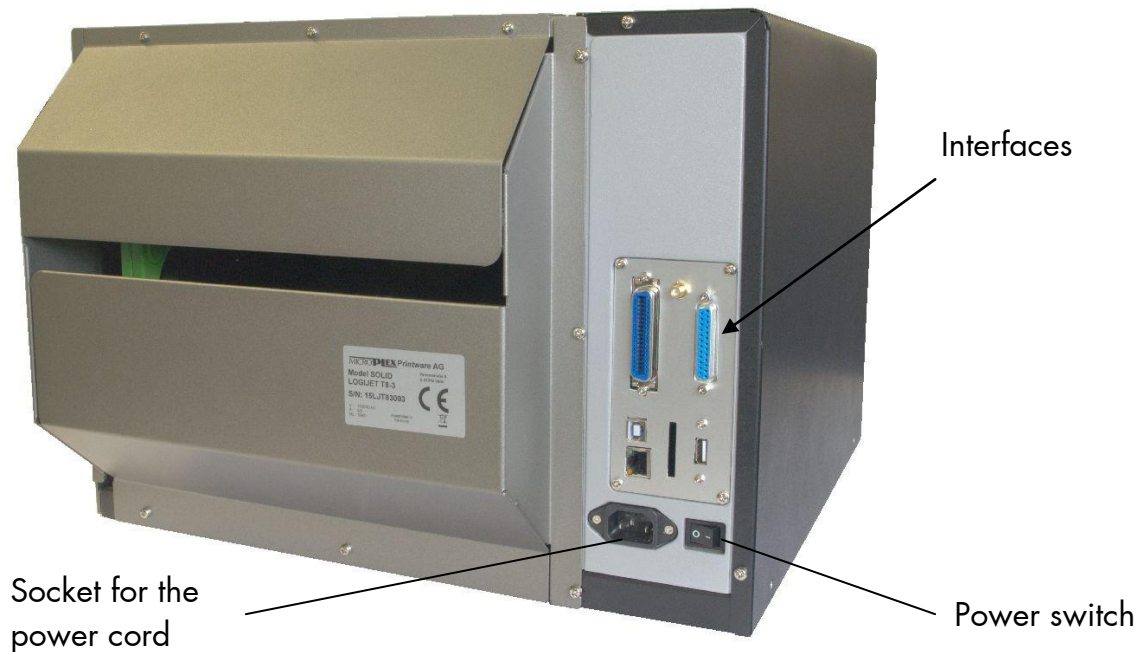
Fig. 5.1.a Rear view of the LOGIJET T8-3

1. Make sure the printer, the computer, and any other attached devices
    are turned off and unplugged.

2. Use a proper interface line to connect the printer to your computer or to
    the network.
    The printer LOGIJET T8-3 is provided with several interfaces. See figure
    2.4.d in chapter 2 and chapter 10 Specifications.

_____

5.2. Turning on the Printer

Please notice the instructions given in chapter 4 Handling of Consumables.

1. Plug one end of the printer power cord into the socket at the back of the printer and the other end into a properly grounded outlet.

2. Turn on the printer. The power switch is located at the back side of the printer (near the printer's paper output opening, see section 5.1.a).

The print system requires time to initialize and to warm up after you turn it on.

As soon as the printer's warm up phase is finished the printer goes into the ON LINE mode. A status message and the name of the printer are displayed.

Note: You can change the language that appears on the touch panel. Use the "Display Language Selection" panel function (see section 6.19).

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5.3. Control Panel View

LEDs

Display

(fourlined)

6 Function keys

_____
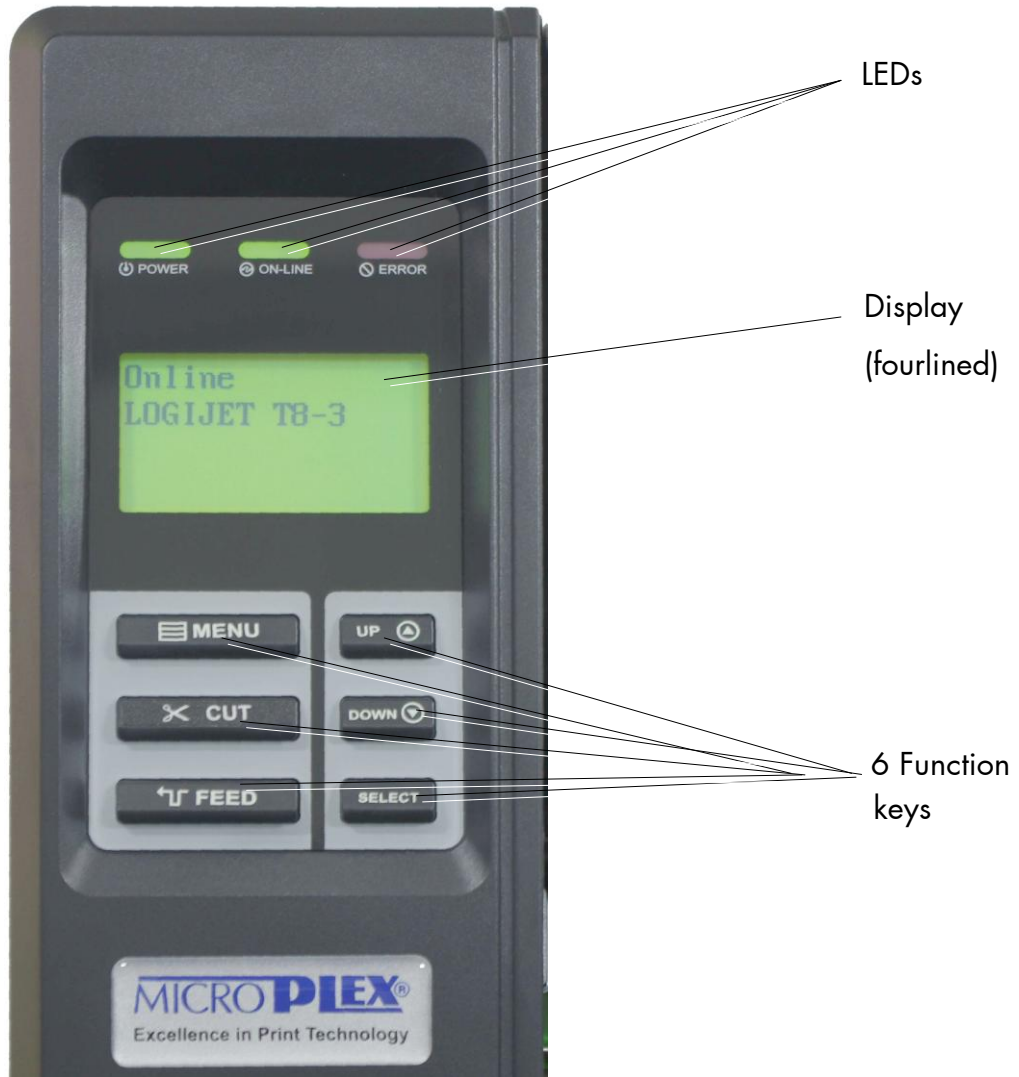
5.4. Function of the Control Panel Elements

Display

> The display (LCD-panel, 4 x 16 characters) serves to show the printer's status messages.

POWER – LED (Green)

 The printer is on.

 The printer is off.

ON LINE – LED (Green)

 The printer is ready to receive data from the host (the printer is ON LINE).

 The printer is not ready to receive data from the host (OFF LINE). The control panel keys are active.

ERROR – LED (Red)
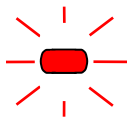
 An error occurred in the printer. The printer is OFF LINE.

 No error occurring.

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Control Panel Keys

This symbol shows the MENU key. This key is used to turn the printer OFF LINE   and ON LINE.
In addition to that this key can be used to clear an error message in the display after the fault was fixed.

Printer OFF LINE:
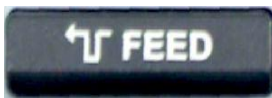
In the OFF LINE mode the paper is conveyed one format length further after having activated the **FEED** key.

In the OFF LINE mode this key is used to **start the cutter** (cutter = option).

These keys are used for working within the different levels of the menu structure.
This structure and the panel functions are described in the following.

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_____
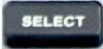
5.5. Configuration via the Control Panel

You can use the control panel to change the printer configuration and customize your printer to meet your specific needs.

In addition printer configuration via Ethernet is possible.
The MICROPLEX printer controller offers an integrated website, for more information see <u>Networking Features of MICROPLEX Printers</u>.

Chapter 6 (Panel Functions) describes how to reach the particular printer functions via the panel.

T e m p o r a r y changes in printer configuration are effective only as long as the printer stays turned on. To select such changes temporarily, the user must terminate the change of function by pressing the ▨ **SELECT** key one single time.

P e r m a n e n t changes in printer configuration are active each time the printer is turned on again. To select such changes permanently, the user must terminate the change of function by pressing the ▨ **SELECT** key **two times**.

An output of the current printer values can be generated using the panel function "Printing the Status Sheet " (see section 6.9).

Please note:

- User default settings remain in effect until you save new settings or restore the factory defaults.

- Settings you choose from your software application or printer driver can also change or override the user default settings you select from the touch panel.

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Switching the Printer OFF LINE

After the printer was turned on (and as soon as the warm up phase is finished) the printer goes into the ON LINE – Mode

[LOGIJET T8-3   ]   Printer messages are displayed on the control panel display.

     This symbol shows the MENU key. This key is used to turn the printer OFF LINE
If the printer is turned OFF LINE with this key you get automatically into the first menu level.

[Menu Level 1   ]   Now this message is displayed on the display.

In the interest of simplicity, in the following chapters only the most important display messages are shown in the Panel display column.

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5.6. Menu Structure

Access to the menu structure is possible as soon as the printer is turned OFF LINE.

The menu structure of the printer LOGIJET T8-3 is arranged in different levels:
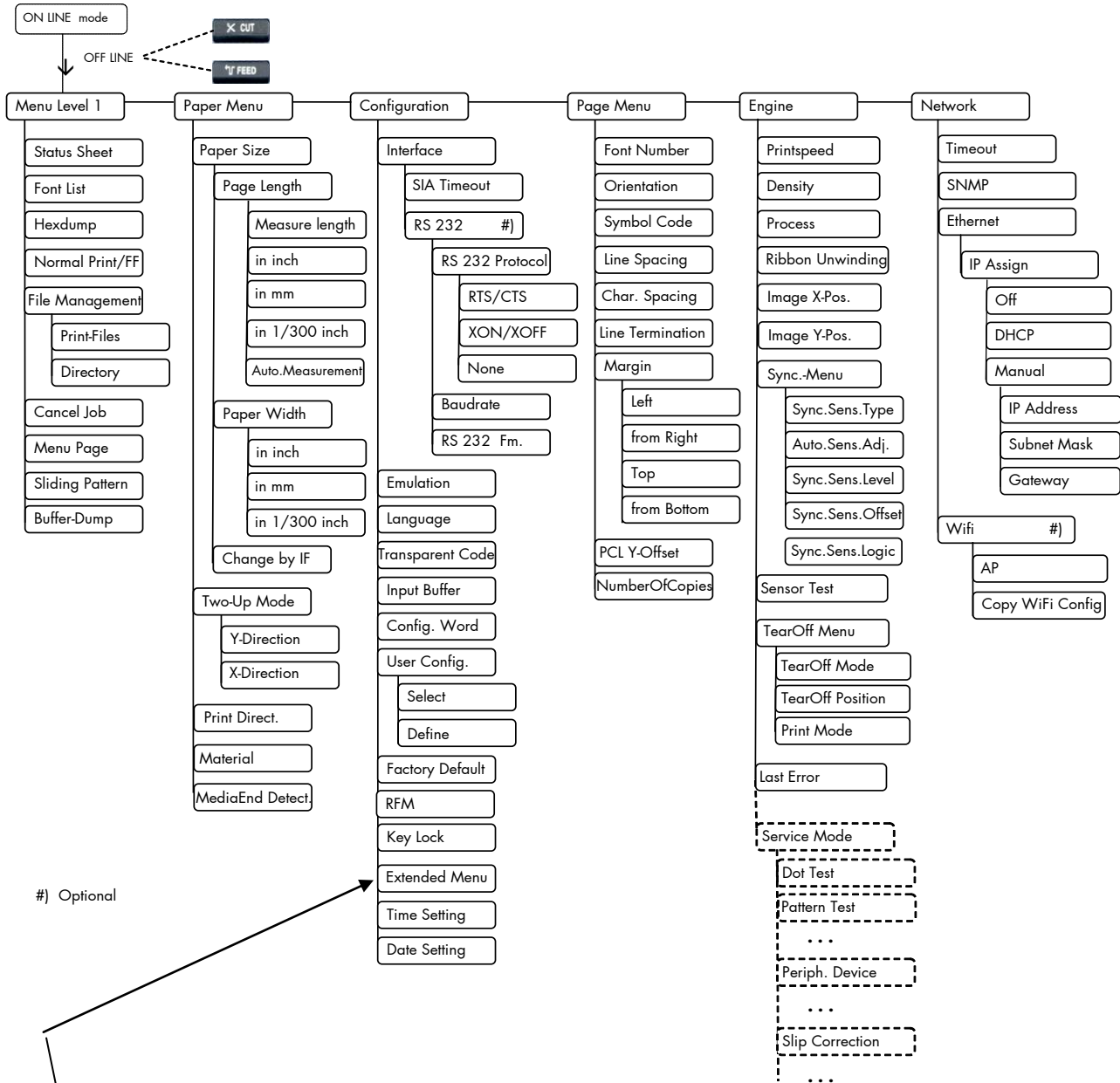
#) Optional

This panel function allows the user to choose a **reduced menu** instead of the extended menu shown above.

_____

Selecting positions in the menu structure:

This symbol shows the MENU key. You get automatically into menu level 1, if the printer is turned OFF LINE with this key.

By pressing the [UP] key or the [DOWN] key you can move within the menu levels.

["Menu Level"]

Each menu item/subitem within a menu level is shown in the display.

The [SELECT] key has two main functions. It gives the user access to a particular menu and, once in the menu, it allows the user to select a particular function.
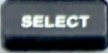
["Function"]

_____

Functions / Changing of function values:

The keys [UP] and [DOWN] change the value of the selected digit of the function value.

By pressing the [SELECT] key the selected function is activated respectively the function values currently displayed are confirmed.

In case of a multi-digit function value the [SELECT] key is used to switch to the next position of the function value (DIGIT).

Pressing the [MENU] key switches to the previous digit of the function value.

Please note: If you press the [MENU] key although the absolute left digit of the function value is still arrived, the changing procedure will be cancelled and this moves you to the next menu level above.

If you press the [SELECT] key although the absolute right digit (digit 1) of the function value is still arrived, the currently displayed function value is stored.

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Pressing the **SELECT** key the displayed function value is confirmed respectively the displayed function is activated.
The changes are saved temporay. (This means, the changes are saved only until the next printer power off).

[Save as Setup?]   After this you have to decide, if you want to save the changes permanent (Save as setup).

To select such changes permanently, the user must press the **SELECT** key one more time. These permanent changes in printer configuration are active each time the printer is turned on again.

If the **MENU** key is pressed instead, the changes are only stored temporary (not saved as setup).
(This key takes the user to the respective previous menu level).

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Return to the menu level above:

Pressing the ▤ MENU key takes the user back to the respective menu level above.

Return to the ON LINE mode:

Pressing the ▤ MENU key switches the user directly to "ON LINE" from any menu position. For this you have to press the key longer than 2 seconds.

_____
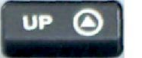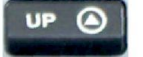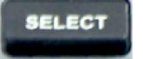
5.7. Syntax of Diagrams

The control panel functions will be described using diagrams. These diagrams show the course necessary in order to activate a certain function.

First the elements of the diagrams are explained:

The sequence on the left describes which keys have to be pressed briefly in succession.
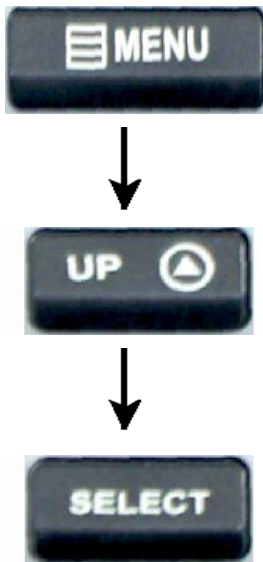
In this example the ☰MENU key has to be pressed first. Then the ☰MENU key has to be released and the UP △ key has to be pressed. Then the UP △ key has to be released and the SELECT key has to be pressed.

["Message"]   The "Panel display" column shows the display messages corresponding to the sequences listed on the left.

In the column "Notes" explanations to particular operational steps are given.

_____

6. Panel Functions

For the panel functions described in the following, the printer is presumed to be switched on and in the ON LINE mode.
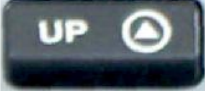
6.1. Selecting and Adjusting the Sync Sensors

Please note: **Always adjust** the printer **sensors** to your consumables (**sensor position as well as the levels and currents**).

_____

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6.1.1. Selecting the Light Sensor Type (Gap or Reflex)

The **Gap Sensor (Transparent Photoelectric Switch)** is suitable for labels with transparent or register gaps (Menu sub-point Punched). The **Reflex Sensor (Reflex Photoelectric Switch)** is suitable for materials with markings / Black Marks (Menu sub-point Reflex).

Panel display		Notes
[Online]	☰ MENU	Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
. . .	UP ▲	Press the UP ▲ or DOWN ▼ key until [Engine] is displayed.
[Engine]	↓	
	SELECT	Press this key. This selects the Engine menu.
[Printspeed]	↓	
. . .	UP ▲	Press the UP ▲ or DOWN ▼ key until [Sync.Menu] is displayed.
[Sync.Menu]	↓	
	SELECT	Press this key. This selects the Sync menu.
[Sync.Sens.Type]	↓	
	SELECT	Press this key. This selects the Sync.Sens.Type menu.
[Punched]	↓	The currently set value is displayed.
. . .	UP ▲	Press the UP ▲ or DOWN ▼ key until the desired sensor type is displayed.
[Reflex]	↓	
	SELECT	The reflex sensor is selected.
[Save as Setup?]	☰ MENU SELECT ☰ MENU	In addition this new value can be saved as setup value (using the SELECT key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the ☰ MENU key longer than 2 seconds.
[Online]		

_____

_____

6.1.2. Checking and Adjusting the Sensors

The device is provided with sensors to enable controlling of consumable movements (Synchronization).
The Gap sensor (Transparent sensor) as well as the Black mark sensor (Reflex sensor) are located "below" the printhead mounting.

Adjust the sensors to your consumables:

Please note: The sensors are located under the print unit.
Always adjust all sensors to your current consumables (levels and currents as well as sensor position).

1. Open the printer hood completely.

2. Push the printhead release lever clockwise to open the printhead mechanism.

Printhead

Printhead release lever

Transparent sensor
(GAP)
(Material/media sensors; green)

Reflex sensor
(Black mark)
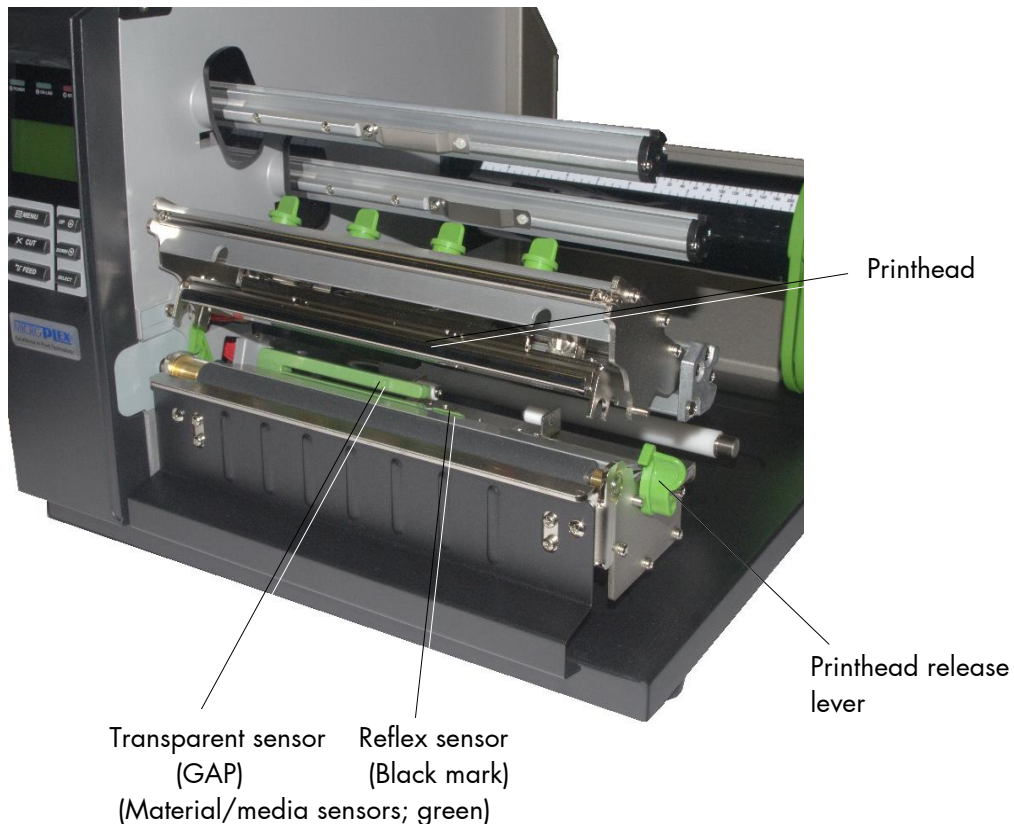
Fig. 6.1.2.a Printhead mechanism opened

_____

_____

3. Insert the consumable or measure the position of the gaps/marks.

4. The following table gives you an **overview of media and sensor target positions**:

Media	Sensors required	Sensor position mark
Media with Black marks	Reflex sensor (Black mark) (+ transparent sensor for paper end detection)	Directly over the black mark
Die-cut label	Transparent sensor (Gap)	The middle of media
Center-punched hole tag	Transparent sensor (Gap)	Directly over the hole
Notched tag	Transparent sensor (Gap)	Directly over the notch

5. Set the Reflex sensors to the lateral position of the marks of your material. (Compare the yellow arrows in the following figure.)

Printhead

Transparent sensor   Reflex sensor
(GAP)   (Black mark)
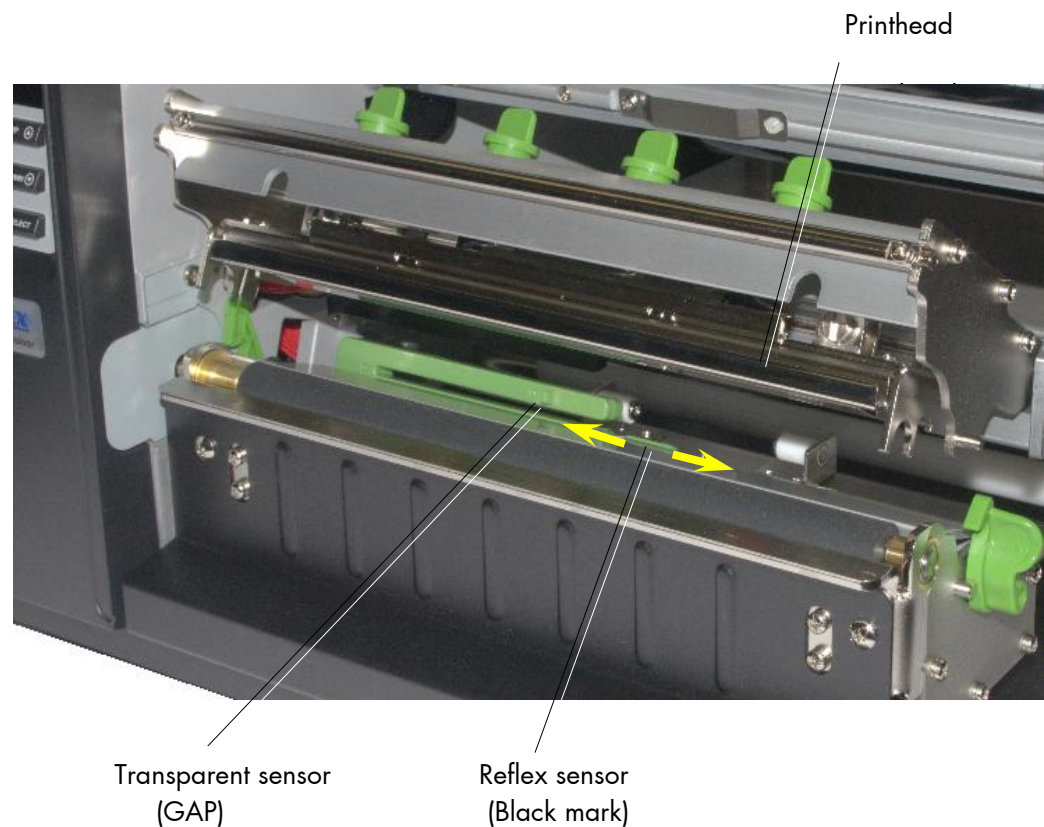
Fig. 6.1.2.b Sliding the sensor to the accurate position

_____

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6.1.3. Automatic Adjust of Sensor Current and Switching Threshold

This function serves to adjust the printer's Sync Sensors to the material in use.
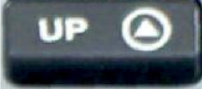
☞ If this <u>automatic function does not work</u> with your specific print material, please perform the steps described in section 6.1.4 Manual Adjusting of Sensor Current and Switching Threshold.

6.1.3.1. Overview

_____
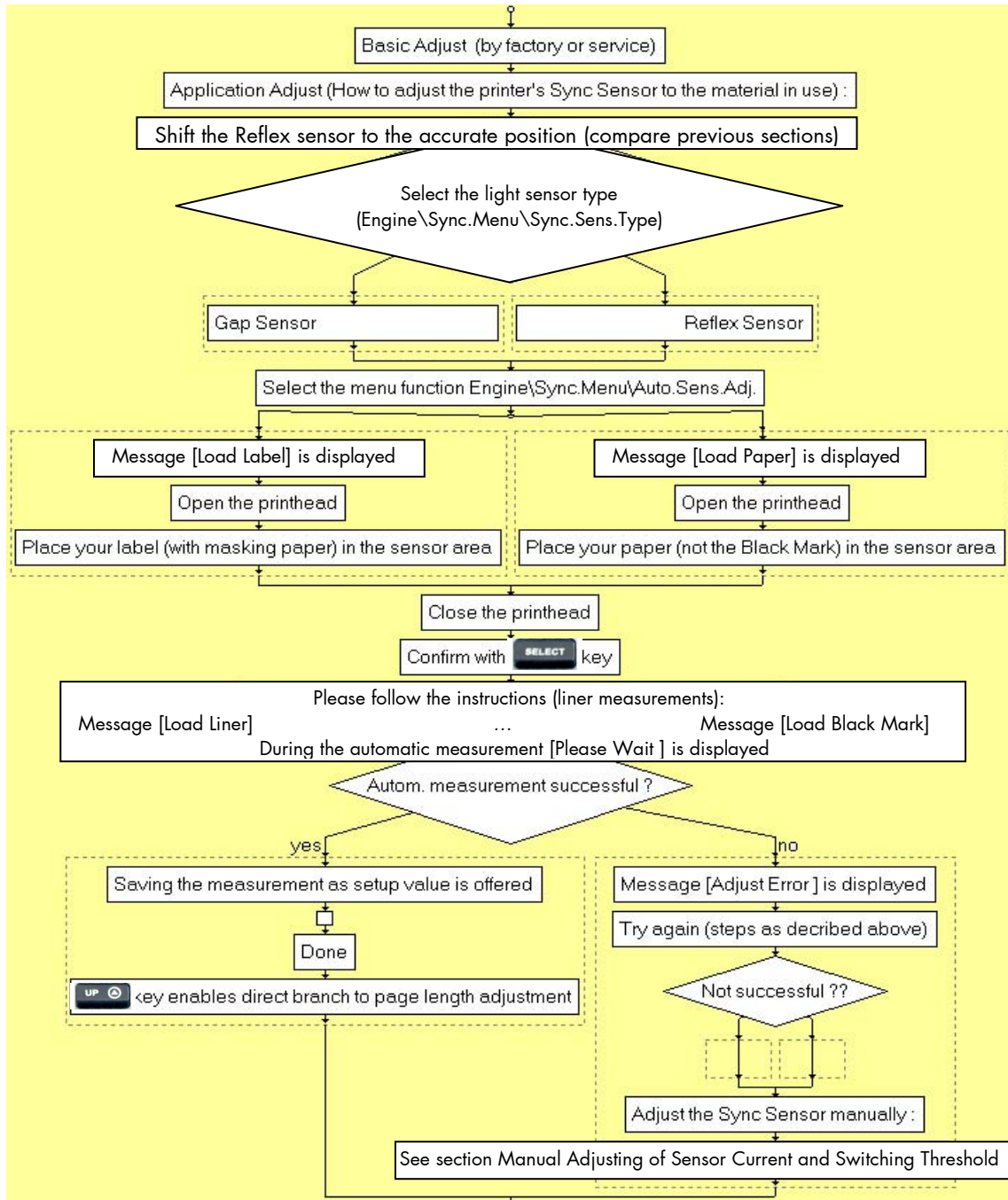
6.1.3.2. Example

Selecting the Light Sensor Type (Gap or Reflex) is described in section 6.1.1. In this example the steps to adjust the Gap Sensor are described.

Panel display		Notes
[Online]	**≡MENU**	Turn the printer OFF LINE with this key.
[Menu Level 1] ...	**UP ⬆**	Press the UP or DOWN key until [Engine] is displayed.
[Engine]	**SELECT**	Press this key. This selects the Engine menu.
[Printspeed] ...	**UP ⬆**	Press the UP or DOWN key until [Sync.Menu] is displayed.
[Sync.Menu]	**SELECT**	Press this key. This selects the Sync menu.
[Sync.Sens.Type] ...	**UP ⬆**	Press the UP or DOWN key until [Auto.Sens.Adj.] is displayed.
[Auto.Sens.Adj.]	**SELECT**	Press this key to start the automatic sensor adjusting.
	⬇	Open the printhead and place label (with masking paper) in the sensor area.
[Put in Label] ...	**SELECT**	Close the printhead. Press the SELECT key: the printer automatically measures the contrast value. Please follow the instructions (liner measurement).
[Save as Setup?]	**≡MENU SELECT ≡MENU**	In addition this new value can be saved as setup value (using the SELECT key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the ≡MENU key longer than 2 seconds.
[Online]		

_____

6.1.4. Manual Adjusting of Sensor Current and Switching Threshold

Manual adjusting of the Sync sensor current and switching threshold allows the processing of materials with high contrast proof points within the label, which would otherwise be falsely measured by the system. *)

The panel functions Sensor Test and Sync Sens Level serve to adjust the Sync sensors specifically for the label material in use.

☞ The following sections describe the steps to adjust the Black mark sensor (reflex sensor) and the Gap sensors (transparent sensor) in form of flow charts as well as in form of step by step listings.

*) Special solution: If the adjusting of the Gap Sync sensor failes because the contrast value of the label material itself is very low, you can use the panel function **Sync.Sens.Logic** to invert the logic. (Black marks can be used as "inverse gaps" in this way.)

_____

6.1.4.1. Reflex Sensor (Black Mark Sensor)

Working Steps as Flow Chart:

Start the printer in the Service Mode

In the printer Menu go to Engine\Sync.Menu**Sync.Sens.Type** and select **Reflex**

Shift the Reflex sensor to the position of the black marks

Set the Reflex sensor **current (CV value)** as follows:

Go to Engine**Sensor Test** and select **Reflex**

The level (contrast) measured by the sensor is displayed. Press [SELECT] once again

Leftmost: VV= currently measured sensor value (Level)   At the right: CV= reference value for sensor current

Set CV (reference value sensor current) in the first instance to approx. 60 % (using [DOWN] or [UP] key)

Load your paper into the sensor area

Increasing the CV current value ([UP] key) reduces the sensor measured value (VV level) ([DOWN] key increases)

Sensor measured value (VV **level**) of **paper** less than 10 %?

No

Yes

Place the black mark of your material in the sensor area

Reducing the CV current value ([DOWN] key) increases the sensor measured value (VV level) ([UP] key decreases)

Sensor measured value (VV **level**) of **black mark** as possible more than 45 % ?

No

Yes

Measure both sensor levels once again, thereby notice the values for Paper **and** Black mark.
(You need the two level values of your material for the following switching threshold adjustment)

Save the new CV value ([SELECT] ; CV = reference value sensor current)

Set the **switching threshold** of the Reflex sensor:

Go to Engine**Sync.Menu\Sync.Sens.Level**

At the right the switching threshold value is displayed.

Set the switching threshold to the middle between the paper level and the black mark level:

Graphical explanation for switching threshold setting:

Level in %

Black mark

Mean value   is to be used as **Switching threshold**

Paper

0

Save the new switching threshold (level) using the [SELECT] key

_____

Description of the Working Steps for the **Reflex Sensor** (Black Mark Sensor):

A) Start the printer in the Service Mode, compare section 6.32 (necessary for steps in section D).

B) Select the **Sensor Type**   Reflex

> Please go to [**Sync.Sens.Type**] in the printer menu structure:
>> Engine\Sync.Menu\Sync.Sens.Type\ select **Reflex**

C) Shift the **Reflex sensor** to the **position** of your **black marks**
> See section 6.1.2 Checking and Adjusting the Sensors

D) **Sensor Current** (**CV** value) adjusting
> Please go to **Sensor Test** and select the subpoint **Reflex**:
>> Engine\Sensor Test\ select Reflex
>
> The currently measured sensor level (contrast) is displayed.
>
> Press the [SELECT] key again, after this 2 values are displayed:
>
> Left VV = curr. measured sensor value (level)   Right CV = reference value for sensor current.
>
>> CV is modifiable (and has an effect on the VV value).
>
> Use the [UP] and [DOWN] keys to set the CV value.   Approx. CV value: 60 %
>
> **Load paper** into the **sensor**.
>
> The sensor measured value (VV **level**) of the **paper** (not black mark) should count less than 10%.
>
>   If the VV level is too high, increase CV (sensor current).
>
> Put a **black mark into** the **sensor** area.
>
> The sensor measured value (VV **level**) of the black mark should count as possible more than 45 %.
>
>> ☞ If the sensor measured value (VV level) of black mark is too low, the CV value should be decreased.
>>
>> Higher black mark VV values than 45 % are more advantageous so long as there is no rising above 10 % of the paper VV level.
>
> Measure both sensor levels once again for Paper **and** Black mark.
>   (You need the two level values of your material for the following switching threshold adjustment)
>
> Save the new current value (CV) using the [SELECT] key.

E) **Sensor Switching Threshold** adjusting
> Please go to [**Sync.Sens.Level**] in the printers menu structure:
>> Engine\Sync.Menu\Sync.Sens.Level
>
> At the right the switching threshold value is displayed.
>
> Use the [UP] and [DOWN] keys to set the switching threshold of the sensor to the middle between the paper level and the black mark level:
>
> Save the new switching threshold ([SELECT] key).

Graphical explanation for switching threshold setting:

Level in % ↑
- Black mark
Mean value — is to be used as **Switching threshold**
- Paper
0 └

_____
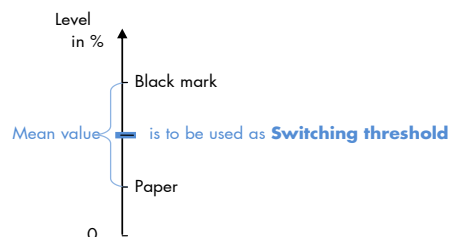
6.1.4.2. Gap Sensor (Transparent Sensor)

Working Steps as Flow Chart:

Start the printer in the Service Mode

In the printer Menu go to Engine\Sync.Menu**Sync.Sens.Type** and select **Punched**

Set the Gap sensor **current (CV value)** as follows:

Go to Engine**Sensor Test** and select **Gap**

The level (contrast) measured by the sensor is displayed. Press [SELECT] once again

Leftmost: VV= currently measured sensor value (Level)   At the right: CV= reference value for sensor current

Set CV (reference value sensor current) for the first time to approx. 25 % (using [DOWN] or [UP] key)

Place the liner of your label material in the sensor area

Increasing the CV current value ([UP] key) reduces the sensor measured value (VV level) ([DOWN] key increases)

Sensor measured value (VV **level**) of **liner** less than 10%?

No

Yes

Increase CV by another 3 %

Place the label (with liner) in the sensor area

Reducing the CV current value ([DOWN] key) increases the sensor measured value (VV level) ([UP] key decreases)

Sensor measured value (VV **level**) of **label** as possible more than 40 % ?

No

Yes

Measure both sensor levels once again, thereby notice the values for liner **and** label.
(You need the two level values of your material for the following switching threshold adjustment)

Save the new CV value ([SELECT] key; CV = reference value for sensor current)

Set the **switching threshold** of the Gap sensor:

Go to Engine**Sync.Menu\Sync.Sens.Level**

At the right the switching threshold value is displayed.

Set the switching threshold to the middle between the liner level and the label level:

Graphical explanation for switching threshold setting:

Level in %

Label (with liner)

Mean value is to be used as **Switching threshold**

Liner

0

Save the new switching threshold (level) using the [SELECT] key

Description of the Working Steps for the **Gap Sensor** (Transparent Sensor):

A) Start the printer in the Service Mode, compare section 6.32 (necessary for steps in section C).

B) Select the **Sensor Type**	Punched

Please go to [**Sync.Sens.Type**] in the printers menu structure:
    Engine\Sync.Menu\Sync.Sens.Type\ select **Punched**

C) **Sensor Current (CV** value**)** adjusting
Please go to **Sensor Test** and select the subpoint **Gap**:
    Engine\Sensor Test\ select Gap
The currently measured sensor level (contrast) is displayed.
Press the [SELECT] key again, after this 2 values are displayed:
Left VV = curr. measured sensor value (level)   Right CV = reference value for sensor current.
    CV is modifiable (and has an effect on the VV value).

Use the [UP] and [DOWN] keys to set the CV value.   Approx. CV value: 25 %

Put the **liner** (not the label) of your material into the **sensor**.
Increase CV (current) until the sensor measured value (VV **level**) of the **liner** is **under 10 %**.

After that increase CV (sensor current) by another 3 %.   + 3 %

Load label (with liner) **into the sensor**.
The measured sensor level (VV **Pegel)** of **label** should count **as possible more than 40 %**.

☞ If the sensor measured value (VV level) of label is too low, the CV value should be decreased.

Higher label VV values than 40 % are more advantageous so long as there is no rising above 10 % of the liner VV level.

Measure both sensor levels once again for Liner **and** Label.
  (You need the two level values of your material for the following switching threshold adjustment)
Save the new current value (CV) using the [SELECT] key.

D) **Sensor Switching Threshold** adjusting
Please go to [**Sync.Sens.Level**] in the printers menu structure:
    Engine\Sync.Menu\Sync.Sens.Level
At the right the switching threshold value is displayed.

Use the [UP] and [DOWN] keys to set the switching threshold of the sensor to the middle between the liner level and the label level:

Save the new switching threshold ([SELECT] key).

Graphical explanation for switching threshold setting:

Level in %
Label (with liner)
Mean value — is to be used as **Switching threshold**
Liner
0
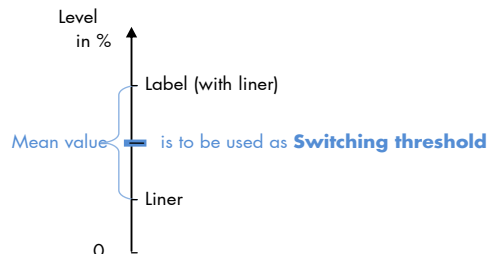
6.1.4.3. Example: Determining the Switching Threshold for a Label Material

After selecting the **panel function Sync.Sens.Level** the contrast of the inserted material (placed in the photoelectric sensor area) is shown on the printer display. The **left level value** is the **currently measured sensor value** (You'll find more details in the previous sections.)

For **all** different **contrast zones** of the current **material** sensor values (level values in %) have to be measured now. **Place** the material **in the** photoelectric **sensor** area and read the level values.

Example: Self-adhesive material with black bars across the label

Zone of the inserted material:	Sensor measured value (level):
Label + liner + black bar	75 %
Label + liner	44 %
Liner (other names: carrier or backing)	12 %

Calculation of the Switching Threshold

Graphical explanation for switching threshold setting:

Level
in %

44 — Label (with liner)

Mean value — is to be used as **Switching threshold**

12 — Liner

0
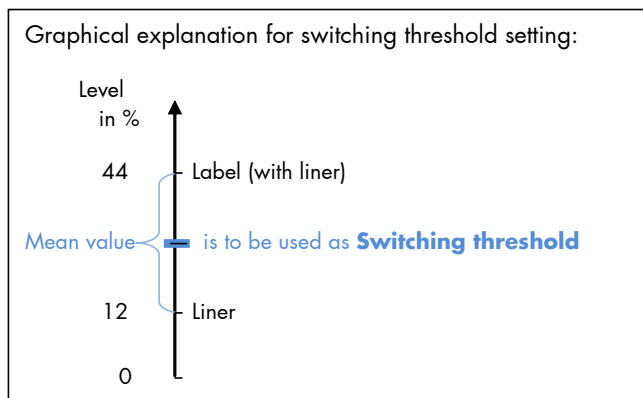
The **middle between the label level** (incl. liner) **and liner level** has to be calculated:

$$(44\% - 12\%)/2 + 12\% = 28\%$$

In this example the switching threshold is to be set to the value 28 %. (The steps to set the Sync sensor level at the printer panel can be found on the following page.)

_____

Steps to **set the Switching Threshold (Sync.Sens.Level)** at the printer panel:

Panel display   Notes

`[Online            ]`   ☰ MENU   Turn the printer OFF LINE with this key.

`[Menu Level 1      ]`   ↓

`. . .`   UP ⬆   Press the UP ⬆ or DOWN ⬇ key until
                                           [Engine] is displayed.

`[Engine            ]`   ↓

                             SELECT   Press this key. This selects the Engine menu.

`[Printspeed        ]`   ↓

`. . .`   UP ⬆   Press the UP ⬆ or DOWN ⬇ key until
                                           [Sync.Menu] is displayed.

`[Sync.Menu         ]`   ↓

                             SELECT   Press this key. This selects the Sync menu.

`[Sync.Sens.Type   ]`   ↓

                             UP ⬆   Press the UP ⬆ or DOWN ⬇ key until
                                           [Sync.Sens.Level] is displayed.

`[Sync.Sens.Level ]`   ↓

                             SELECT   Press this key to adjust the Sync Sensor
                                           level (switching threshold).

`[Level: 44%    40%]`   At the right the currently set switching
                                           threshold is displayed. (At the left the
Sensor measured value   ↓   sensor measured contrast value is
                                           displayed.)
Switching Threshold

                             UP ⬆   Press the UP ⬆ or DOWN ⬇ key until the
                                           desired switching threshold is displayed.

`. . .`

_____

_____
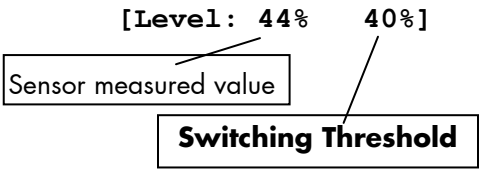
`[Level: 44%   28%]`   ↓

In this example the switching threshold is adjusted to 28%.

`[Save as Setup?  ]`

In addition this new value can be saved as setup value (using the [SELECT] key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the [MENU] key longer than 2 seconds.

`[Online        ]`

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6.2. Print Process Selecting

This function allows to select the print process.
While thermal direct printing the device operates without ribbon, direct thermal media is required.
While thermal transfer printing a ribbon is needed to transfer the print contents onto the media (see chapter 4 Handling of Consumables, too).

For thermal direct printing it is not allowed to insert a ribbon to avoid damaging the printhead.
Make sure your settings match to the printer implementation (ribbon inserted/not inserted).

Description of this control panel function continues on the next page.

_____

_____

Panel display		Notes
[Online]	MENU	Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
. . .	UP	Press the UP or DOWN key until [Engine] is displayed.
[Engine]	↓	
	SELECT	Press this key. This selects the Engine menu.
[Printspeed]	↓	
. . .	UP	Press the UP or DOWN key until [Process] is displayed.
[Process]	↓	
	SELECT	Press this key to select the process.
[Thermo direct]	↓	
. . .	UP	Press the UP or DOWN key until the display message is corresponding with the printer implementation (ribbon inserted = Thermo transfer e.g.).
[Thermo transfer]	↓	
	SELECT	The thermal transfer print process is selected.
[Save as Setup?]	↘ ↙ MENU SELECT ↘ ↙ MENU	In addition this new value can be saved as setup value (using the SELECT key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again:
[Online]		Press the MENU key longer than 2 seconds.

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6.3. Ribbon Unwinding Setting (Ink Inside or Outside)

This function is used to adjust the printer to the unwinding direction of your ribbon (distinction between ink inside and ink outside).

Note: More details are described in section 4.2.1 Ribbon Loading.

Panel display		Notes
[Online]	**☰MENU**	Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
. . .	**UP ▲**	Press the **UP ▲** or **DOWN ▼** key until [Engine] is displayed.
[Engine]	↓	
	SELECT	Press this key. This selects the Engine menu.
[Printspeed]	↓	
. . .	**UP ▲**	Press the **UP ▲** or **DOWN ▼** key until [Ribbon Unwinding] is displayed.
[Ribbon Unwinding]	↓	
	SELECT	Press this key to select the Ribbon Unwinding submenu.
[Ink outside]	↓	
. . .	**UP ▲**	Press the **UP ▲** or **DOWN ▼** key until the display message is corresponding with the unwinding direction of your ribbon.
[Ink inside]	↓	
	SELECT	The ribbon unwinding direction for ink inside is selected.
[Save as Setup?]	☰MENU SELECT / ☰MENU	In addition this new value can be saved as setup value (using the **SELECT** key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the **☰MENU** key longer than 2 seconds.
[Online]		

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6.4. Media Setting (Material; Label or Continuous)

This function allows to adjust the printer to the actual used material (distinction between formatted media (label) and continuous media).

Note: You have to adjust the Sync sensors to your media first. (See previous sections).

<u>Panel display</u>   <u>Notes</u>

[Online   ]   [MENU]   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

. . .   [UP]   Press the [UP] or [DOWN] key until
                                                [Paper Menu] is displayed.

[Paper Menu   ]   ↓

          [SELECT]   Press this key. This selects the Paper menu.

[Paper Size   ]   ↓

. . .   [UP]   Press the [UP] or [DOWN] key until [Material]
                                                is displayed.

[Material   ]   ↓

          [SELECT]   Press this key. This selects the Material sub-
                                                menu.

[Label   ]   ↓   The currently set value is displayed.

. . .   [UP]   Press the [UP] or [DOWN] key until the
                                                statement shown by the display corresponds to
                                                the inserted media (Continuous e.g.).

[Continuous   ]   ↓

          [SELECT]   The printer is adjusted to continuous material.

[Save as Setup?]   ↖ ↗   In addition this new value can be saved as
          [MENU] [SELECT]   setup value (using the [SELECT] key), before the
   ↘ ↙   printer is turned ON LINE again. After this
          [MENU]   decision turn the printer ON LINE again: Press

[Online   ]   the [MENU] key longer than 2 seconds.

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6.5. Adjusting the Zero Position of the Material Transport (Sync.Sens.Offset))

Using this function an **offset** from the detected paper feed zero-position can be set. (See figure next page) By this the position of **printout and tear off/cut** is adjusted **relatively to the material**. (TOF, offset from the printer-detected punch position, that means relatively to the gap/perforation and start of the label. The setting range for the offset is approximately ± 20 mm.

Note: You should execute this offset adjusting after having adjusted the Sync sensors successfully (see previous sections).

Panel display   Notes

[Online   ]   ☰ MENU   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

    . . .   UP ⊙   Press the UP ⊙ or DOWN ⊙ key until [Engine] is displayed.

[Engine   ]   ↓

                   SELECT   Press this key. This selects the Engine menu.

[Printspeed   ]   ↓

    . . .   UP ⊙   Press the UP ⊙ or DOWN ⊙ key until [Sync.Menu] is displayed.

[Sync.Menu   ]   ↓

                   SELECT   Press this key. This selects the Sync menu.

[Sync.Sens.Type   ]   ↓

    . . .   UP ⊙   Press the UP ⊙ or DOWN ⊙ key until [Sync.Sens.Offset] is displayed.

[Sync.Sens.Offset]   ↓

                   SELECT

[Offset: +0.0 mm]   ↓   The currently set offset value is displayed.

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. . .

Press the [UP] or [DOWN] key until the desired offset is displayed.

[Offset: +1.0 mm]

The gap position is shifted 1 mm against the feed direction .

[Save as Setup?   ]

In addition this new value can be saved as setup value (using the [SELECT] key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the [MENU] key longer than 2 seconds.

[Online   ]

Gap position
detected by
the printer,
zero-position

feed direction

print material

+ Offset   - Offset

Fig. 6.5.a Setting the zero position of the material feed

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6.6. Page Length Adjustment

After inserting new material (e.g. paper) this function is used to adjust
the printer to the new page length.

Hint: Alternatively, the printer itself is able to measure the label length. See
next sections.

<u>Panel display</u>   <u>Notes</u>

[Online   ]   ≣ MENU   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

. . .   UP ⊘   Press the UP ⊘ or DOWN ⊘ key until
                                 [Paper Menu] is displayed.

[Paper Menu   ]   ↓

                      SELECT   Press this key. This selects the Paper menu.

[Paper Size   ]   ↓

                      SELECT   Press this key. This selects the Paper Size menu.

[Page Length   ]   ↓

                      SELECT   Press the SELECT key to adjust the page length.

[Measure Length]   ↓

                                 Press the UP ⊘ or DOWN ⊘ key if you want to
. . .   UP ⊘   **adjust the page length manually**:

[in mm   ]   ↓   mm = currently selected measuring unit.

                      SELECT   (Alternative the units inch or 1/300 inch can
                                 be chosen with the UP ⊘ or DOWN ⊘ key).

[Digit4   149.9]   ↓   The currently set page length is displayed.

_____

_____

Pressing the [UP] or [DOWN] key changes the value of the current digit (Digit4 = left position, in this example: 1). Pressing the [SELECT] key moves you to the next digit (the [MENU] key moves you back, if need be).

. . .

[Digit1   149.5]   ↓

The page length is changed to 149.5 mm.

[Perm.Speichern?]

In addition this new value can be saved as setup value (using the [SELECT] key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the [MENU] key longer than 2 seconds.

[Online   ]

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6.6.1. Starting the (Printer's) Measurement of Label Length

Use the panel function
    Paper Menu \ Paper Size \ Page Length \ **Measure Length**

The printer performs a material feed and reports the measured label length on the display.

Use the [SELECT] key to confirm this value (configuration of the measured label length).

In addition this new value can be saved permanent as setup value (using the [SELECT] key, again).

6.6.2. Configuration of Semiautomatic Label Length Measurement

The panel function
    Paper Menu \ Paper Size \ Page Length \ **Auto.Measurement**
serves to switch the semiautomatic label length measurement function to on or off (and to save this setting as setup value).

If the semiautomatic label length measurement function is chosen, the printer **automatically offers** you the **measurement of the label length** after every printer power on and **after every closing of the printhead** (for example after the inserting of a new label roll):
    Panel display [Measure length]

Use the [SELECT] key to start the measurement of label length, use the [MENU] key to suppress this function.
The printer saves the measured label length temporal (as long as the printer stays turned on).

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6.7. Material Width Adjustment (Paper Width)

The paper width (print width) has to be adjusted with this function according to the currently used format.

Panel display | Notes

`[Online            ]`   ⊟MENU   Turn the printer OFF LINE with this key.

`[Menu Level 1      ]`   ↓

`. . .`   UP ⊙   Press the UP ⊙ or DOWN ⊙ key until [Paper Menu] is displayed.

`[Paper Menu        ]`   ↓

SELECT   Press this key. This selects the Paper menu.

`[Paper Size        ]`   ↓

SELECT   Press this key. This selects the Paper Size menu.

`[Page Length       ]`   ↓

`. . .`   UP ⊙   Press the UP ⊙ or DOWN ⊙ key until [Paper Width] is displayed.

`[Paper Width       ]`   ↓

`. . .`   SELECT   Press the SELECT key to adjust the format width to the paper width.

`[in mm             ]`   ↓   mm = currently selected measuring unit.

SELECT   (Alternative the units inch or 1/300 inch can be chosen with the UP ⊙ or DOWN ⊙ key).

`[Digit4    108.4 ]`   ↓   The currently set paper width is displayed.

UP ⊙   Pressing the UP ⊙ or DOWN ⊙ key changes the value of the current digit (Digit4 = left position, in this

`. . .`   example: 1). Pressing the SELECT key moves you to the next digit (the ⊟MENU key moves you back, if need be).

`[Digit1    108.0 ]`   ↓

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SELECT

The format width (paper width) is changed to 108.0 mm.

[Save as Setup?   ]

In addition this new value can be saved as setup value (using the **SELECT** key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the **MENU** key longer than 2 seconds.

[Online   ]

_____
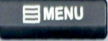
6.8. Configuration of Text Margins

This function sets text margins. Margins are expressed in dots at the concerning edge of the paper.

Panel display		Notes
[Online]	MENU	Turn the printer OFF LINE with this key.
[Menu Level 1] ...	UP	Press the UP or DOWN key until [Page Menu] is displayed.
[Page Menu]	SELECT	Betätigen Sie diese Taste, dadurch wird das Konfigurationsmenü gewählt.
[Font Number] ...	UP	Press the UP or DOWN key until [Margin] is displayed.
[Margin]	SELECT	Press this key. This selects the Margin configuration menu.
[Left] ...	UP	Press the UP or DOWN key until the desired margin is displayed.
[from Right]	SELECT	Press this key if you want to configure the right margin.
[Digit4 0081]		The currently set value is displayed.
 ... 	UP	Pressing the UP or DOWN key changes the value of the current digit. (Digit 4 = left position, in this example: 0). Pressing the SELECT key moves you to the next position (the MENU key moves you back, if need be).
[Digit1 0087]	SELECT	The right margin is changed to 87 dot.
[Save as Setup?] **[Online]**	MENU SELECT / MENU	In addition this new value can be saved as setup value (using the SELECT key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the MENU key longer than 2 seconds.

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6.9. Printing the Status Sheet

This function generates a status sheet. The status sheet contains information about the current printer configuration, the available fonts and options.

Panel display   Notes

[Online   ]   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

                                Press this key. Menu Level 1 is selected.

[Status Sheet   ]   ↓

                                Press this key again.

[Status Sheet   ]   ↓   A status sheet is printed.

                                Turn the printer ON LINE again: Press the key longer than 2 seconds. After this the printer is ready to print again.

[Online   ]

_____

Status sheet contents:

The first lines, entitled SERVICE INFORMATION, contain hexadecimal coded configuration parameters.

Printed in plain text:

- Controller version / memory / serial number
- Firmware release
- Interface
    parameters of Parallel, USB, Network (Ethernet)
- Network
    parameters and addresses
- Printer emulation
- User-RAM / free User-RAM
- Input data buffer
- Transparent code
- Paper size
- Default margins   top / left
                        bottom / right
- Default character code
- Options
- Fonts installed (Font banks)

Note: Use the panel function Printing the Font List to show the fonts installed (see the following section).

_____

6.10. Printing the Font List

This function generates a list of all fonts installed to the printer.

The font list shows demo prints of all fonts and, in addition, the concerning PCL selection commands. These commands contain information on font width and font hight (see panel function Font Selection, too).

Panel display   Notes

[Online   ]   MENU   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

                        SELECT   Press this key. Menu Level 1 is selected.

[Status Sheet   ]   ↓

        . . .   UP   Press the UP or DOWN key until
                                  [Font List] is displayed.

[Font List   ]   ↓

                        SELECT   The font list is printed.

[Font List   ]   ↓

                        MENU   Turn the printer ON LINE again: press the
                                  MENU key longer than 2 seconds. After this
[Online   ]   the printer is ready to print again.

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6.11. Hexdump Mode Activation

In the Hexdump Mode the printer prints all characters received via interface without any interpretation (hexadecimal coded).

This mode helps with error diagnosis. The Hexdump Mode can be activated only temporarily.

Panel display   Notes

[Online   ]   ☰ MENU   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

                                 SELECT   Press this key. Menu Level 1 is selected.

[Status Sheet   ]   ↓

       . . .   UP ▲   Press the [UP ▲] or [DOWN ▽] key until
                                         [Hexdump] is displayed.

[Hexdump   ]   ↓

                                 SELECT   The Hexdump Mode is activated.

[Hexdump   ]   ↓

                                 ☰ MENU   Turn the printer ON LINE again: Press the
                                          [☰ MENU] key longer than 2 seconds. After
[Online   ]   this the printer is ready to print again.

Note: By activating the normal print mode (see next page) or by turning the printer off and on again the printer can be taken out of Hexdump Mode. Time between turning the printer off and on again should be at least 15 seconds.

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6.12. Normal Print Mode Activation (incl. FORM FEED)

The normal print mode suspends the Hexdump Mode. This function is activated, when a print job must be continued without turning the printer off and on again.

In addition to that the function "Normal Print Mode Activation" is used to produce a FORM FEED.

Panel display   Notes

[Online   ]

        ≡ MENU   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

        SELECT   Press this key. Menu Level 1 is selected.

[Status Sheet   ]   ↓

     ...   **UP ▲**   Press the **UP ▲** or **DOWN ▼** key until [Normal Print/FF] is displayed.

[Normal Print/FF]   ↓

        SELECT   The normal print mode is activated.

[Normal Print/FF]   ↓

        ≡ MENU   Turn the printer ON LINE again: Press the **≡ MENU** key longer than 2

[Online   ]   seconds.

Note: After activating the normal print mode a FORM FEED is released automatically and one sheet is put out. This is necessary because after a test in the Hexdump Mode it is possible that data can remain in the input buffer unintentionally. (Cause: in the Hexdump Mode no control characters are evaluated and no FORM FEED is effected).

_____

6.13. Clearing the Input Buffer (Cancel Job)

This function permits the resumption of a print job at a particular page after a print interruption (e.g. paper jam). The data contained in the input buffer before the interruption are cleared.

<u>Panel display</u>   <u>Notes</u>

[Online   ]   ☰ MENU   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

SELECT   Press this key. Menu Level 1 is selected.

[Status Sheet   ]   ↓

. . .   UP ⬡   Press the UP ⬡ or DOWN ⬇ key until [Cancel Job] is displayed.

[Cancel Job   ]   ↓

SELECT   All data contained in the input buffer will be cleared.

[Cancel Job   ]   ↓

☰ MENU   Turn the printer ON LINE again: Press the ☰ MENU key longer than 2 seconds.

[Online   ]

_____

6.14. Printing the Menu Page

This function prints a survey of the available panel functions.

Note: When printing the menu page please use a large paper.

Panel display   Notes

[Online   ]   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

 Press this key. This selects Menu Level 1.

[Status Sheet   ]   ↓

. . .   Press the [UP] or [DOWN] key until [Menu Page] is displayed.

[Menu Page   ]   ↓

 A menu structure presentation of the printer is printed (compare diagram in section Menu Structure).

[Menu Page   ]   ↓

 Turn the printer ON LINE again: Press the [MENU] key longer than 2 seconds. After this the printer is ready to print again.

[Online   ]

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6.15. Generating Testsheets (Sliding Pattern)

This function generates a series of test prints without sending data to the printer.

These test prints facilitate error analysis.

<u>Panel display</u>   <u>Notes</u>

[Online   ]   [≡ MENU]   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

                                      [SELECT]   Press the [UP ▲] or [DOWN ▼] key until [Page Menu] is displayed.

[Status Sheet   ]   ↓

        . . .   [UP ▲]   Press the [UP ▲] or [DOWN ▼] key until [Sliding Pattern] is displayed.

[Sliding Pattern]   ↓

                                      [SELECT]

                                                        A series of test prints is generated.

[Sliding Pattern]   ↓

                                      [≡ MENU]   Turn the printer ON LINE again: Press the [≡ MENU] key longer than 2

[Online   ]   seconds.

☞   The printing out of test prints can be stopped by pressing the [≡ MENU] key.

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6.16. Print Direction Selection
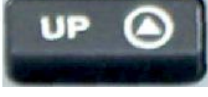
This function selects the active print orientation (orientation of the whole printout including graphics, etc. on the paper).

Panel display   Notes

[Online   ]

Turn the printer OFF LINE with this key.

[Menu Level 1   ]

...

Press the [UP] or [DOWN] key until [Paper Menu] is displayed.

[Paper Menu   ]

Press this key. The Paper Menu is selected.

[Paper Size   ]

...

Press the [UP] or [DOWN] key until [Print Direct.] is displayed.

[Print Direct.   ]

Press this key. The Print Direction menu is selected.

[Print Direct. 0]

The currently set print direction is displayed.

...

Press the [UP] or [DOWN] key until the desired print direction is displayed.

[Print Direct. 1]

The print direction 1 = landscape is selected.

[Save as Setup?]

In addition this new value can be saved as setup value (using the [SELECT] key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the [MENU] key longer than 2 seconds.

[Online   ]

Print direction assignment: Print direction 0 = Portrait (upright format)

Print direction 1 = Landscape (horizontal format)

Print direction 2 = Portrait upside down

Print direction 3 = Landscape upside down

_____

6.17. Data Interface Configuration

This function is used to set the interface parameters.

Panel display		Notes
[Online]	▤ MENU	Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
. . .	UP ⊙	Press the UP ⊙ or DOWN ⊙ key until [Configuration] is displayed.
[Configuration]	↓	
	SELECT	Press this key. This selects the Configuration menu.
[Interface]	↓	
	SELECT	Press this key. This selects the Interface menu.
[SIA Timeout]	↓	
	SELECT	Press this key. This selects the Timeout menu.
[30 s]	↓	The currently set value for the timeout is displayed (here: 30 seconds).
. . .	UP ⊙	Pressing the UP ⊙ or DOWN ⊙ key changes the timeout value.
[40 s]	↓	
	SELECT	The timeout (the waiting period for SIA to switch to the next interface) is increased to 40 seconds.
[Save as Setup?]	↙ ↘ ▤MENU SELECT ↘ ↙ ▤MENU	In addition this new value can be saved as setup value (using the SELECT key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the ▤MENU key longer than 2 seconds.
[Online]		

Note: The printer uses SIA (Simultaneous Interface Administration) to check, which interface is currently used for the transfer of print data.

_____

6.18. Emulation Selection

This function helps to determine which printer emulation will
be activated.

Panel display   Notes

[Online   ]   ☰MENU   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

. . .   UP ▲   Press the UP ▲ or DOWN ⊙ key until
[Configuration] is displayed.

[Configuration   ]   ↓

SELECT   Press this key. This selects the Configuration
menu.

[Interface   ]   ↓

. . .   UP ▲   Press the UP ▲ or DOWN ⊙ key until
[Emulation] is displayed.

[Emulation   ]   ↓

SELECT   Press this key. This selects the Emulation
menu.

[SOLID Standard   ]   ↓

. . .   UP ▲   Press the UP ▲ or DOWN ⊙ key until the
desired emulation (e.g. HP PCL 5) is
displayed.

[HP PCL 5   ]   ↓

SELECT   The emulation HP PCL 5 is selected.

[Save as Setup?   ]   ↙ ↘   In addition this new value can be saved as
☰MENU SELECT   setup value (using the SELECT key), before
↘ ↙   the printer is turned ON LINE again. After
☰MENU   this decision turn the printer ON LINE again:

[Online   ]   Press the ☰MENU key longer than 2 seconds.

_____

Available emulations:

Standard:

MICROPLEX IDOL,
Diablo 630,
IBM Proprinter,
AGFA Reno,
Epson FX,
S3000 Lineprinter,
DEC LN03+,
ANSI (Genicom),
µPostscript,
TIFF (CCITT group 4),
Tally MT 6xx,
Bull MP6090,
Datamax (FGL),
TEC B6xx (Thermal Transfer),
Etimark MP-1220 (Thermal Transfer),
IDS/IDS2,
TEC Bx72 (Thermal Transfer),
LDC (Label Description Language),
Eltron EPL2,
ZPL II (Zebra Programming Language),
HP DesignJet (HPGL-2),
XML,
CUPS-Raster

Optional:

HP LaserJet (PCL 5)   (Factory option only)
Printronix IGP/PGL,
HPGL (7475A),
QMS (Magnum) Code V,
XEROX XES,
LabelPoint,
Kyocera Prescribe
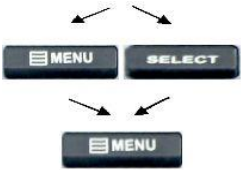
(More emulations on request)

Notice:

The brand names mentioned are registered trademarks of the enterprises named above.

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6.19. Display Language Selection

This function enables the user to determine the language for the display messages, the status sheet and the font list.

Panel display   Notes

[Online   ]

Turn the printer OFF LINE with this key.

[Menu Level 1   ]

. . .

Press the UP or DOWN key until [Configuration] is displayed.

[Configuration   ]

Press this key. This selects the Configuration menu.

[Interface   ]

. . .

Press the UP or DOWN key until [Language] is displayed.

[Language   ]

Press this key. This selects the Language menu.

[German   ]

. . .

Press the UP or DOWN key until the desired language (e.g. English) is displayed.

[English   ]

The display language English is selected.

[Save as Setup?   ]

In addition this new value can be saved as setup value (using the SELECT key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again:

[Online   ]

Press the MENU key longer than 2 seconds.

_____

6.20. Transparent Code Adjustment

This function configures the transparent code. Using the transparent code enables you to initiate the commands of the page description language IDOL by **printable** characters. The transparent code pre-setting is 2625. These are the ASCII character codes (hexadecimal) for the characters &% (ref. IDOL Programming Manual).

Panel display   Notes

[Online   ]

Turn the printer OFF LINE with this key.

[Menu Level 1   ]

...   Press the [UP] or [DOWN] key until [Configuration] is displayed.

[Configuration   ]

Press this key. The Configuration menu is selected.

[Interface   ]

...   Press the [UP] or [DOWN] key until [Transparent Code] is displayed.

[Transparent Code]

Press this key. The Transparent Code menu is selected.

[Digit4   2625]

The hexadecimal number for & % is preset.

Pressing the [UP] or [DOWN] key changes the value of the current digit. (Digit 4 = left position, in this example: 2). Pressing the [SELECT] key moves you to the next digit (the [MENU] key moves you back, if need be).

[Digit1   2626]

2626 is selected as transparent code. From now on use the characters & & before programming the IDOL commands.

[Save as Setup?   ]

In addition this new value can be saved as setup value (using the [SELECT] key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the [MENU] key longer than 2 seconds.

[Online   ]

_____

6.21. Selection of Memory Distribution (Input Buffer)

This function enables the user to choose the distribution of the available RAM memory between input buffer and macro/download memory.

Panel display   Notes

[Online   ]

Turn the printer OFF LINE with this key.

[Menu Level 1   ]

. . .

Press the ⬆ UP or ⬇ DOWN key until [Configuration] is displayed.

[Configuration   ]

Press this key. This selects the Configuration menu.

[Interface   ]

. . .

Press the ⬆ UP or ⬇ DOWN key until [Input Buffer] is displayed.

[Input Buffer   ]

Press this key. This selects the Input Buffer menu.

[32 kB   ]

Press the ⬆ UP or ⬇ DOWN key until the desired memory distribution is displayed. The input buffer size is specified in kilobyte (kB) or in percent of the installed memory.

. . .

[100 kB   ]

100 kB is selected as input buffer.

[Save as Setup?   ]

In addition this new value can be saved as setup value (using the SELECT key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the MENU key longer than 2 seconds.

[Online   ]

_____

6.22. Setting to Factory Default

This function back-outs all configurations to factory defaults.

Panel display   Notes

[Online   ]   Turn the printer OFF LINE with this key.

[Menu Level 1   ]

. . .   Press the [UP] or [DOWN] key until
                                        [Configuration] is displayed.

[Configuration   ]

                                        Press this key. This selects the Configuration
                                        menu.

[Interface   ]

. . .   Press the [UP] or [DOWN] key until
                                        [Factory Default] is displayed.

[Factory Default]

                                        Press this key.

[Save as Setup?   ]   Only if you press the [SELECT] key a second time
                                        the configuration will be back-outed to factory
[Saved !   ]   defaults.

                                        Turn the printer ON LINE again: Press the
[Online   ]   [MENU] key longer than 2 seconds..

_____

6.23. Font Selection

This function selects the active font. Select a font number out of the list of available fonts.

<u>Panel display</u>   <u>Notes</u>

[Online   ]   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

                                 Press the [UP ▲] or [DOWN ▼] key until
   . . .   [Page Menu] is displayed.

[Page Menu   ]   ↓

                                 Press this key. This selects the Page Menu.

[Font Number   ]   ↓

                                 Press this key. This selects the Font menu.

[Font   0600   ]   ↓

                                 Press the [UP ▲] or [DOWN ▼] key until the desired
   . . .   font number (5507 Langeoog e.g.) is
                                                     displayed.

[Font   5507   ]   ↓

                                 The font number 5507 Langeoog is selected.

[Save as Setup?   ]   In addition this new value can be saved as
                                 setup value (using the [SELECT] key), before the
                                                     printer is turned ON LINE again. After this
                                                     decision turn the printer ON LINE again: Press
[Online   ]   the [MENU] key longer than 2 seconds.

_____

The **LOGIJET T8-3 standard equipment** contains the following **fonts**:

Font no.	Font width	Font height	Font name
0600	10	12	Kurilen
0602	10	12	Kurilen Italic
0610	12	10.1	Kurilen
1710	12	10.1	Kurilen Italic
4508	P	8.1	Helgoland
4510	P	10	Helgoland
4714	P	14.4	Helgoland Bold
5507	20	7	Langeoog
5508	16.6	7.9	Langeoog
5509	15	9.1	Langeoog
6610	10	10.1	Juist Monosp.
9210	P	10.1	Tasmanien
9310	P	10.1	Tasmanien Italic
2000	P	SC	Tasmanien
9900	P	SC	Neuwerk

Resumption of this standard font list see next page.

Explanations:

Font width:
  Character distance in CPI (Characters Per Inch).
  P = proportional, (meaning that each character has an individual width).
Font height:
  Font height from the lowest descender to the upper edge of the highest character, measured in graphical points (1/72 inch).
 SC = scalable.

Font no.	Font width	Font height	Font name
0050	SC		Plakatschrift
0590	SC		OCR /B
0591	SC		OCR /A
6600	SC		Juist Monospaced
0699	SC		Kurilen
1700	SC		Kurilen Italic
1800	SC		Kurilen Bold
1900	SC		Kurilen Bold Italic
5500	SC		Langeoog
5600	SC		Langeoog Bold
5700	SC		Langeoog Italic
5800	SC		Langeoog Bold Italic
2100	P	SC	Texel Bold
2200	P	SC	Texel Italic
2300	P	SC	Texel Bold Italic
9800	P	SC	Neuwerk Italic
9500	P	SC	Neuwerk Bold Italic
9600	P	SC	Neuwerk Bold
0060	SC		Plakatschrift
9501	P	SC	Neuwerk-II Condensed Italic
9601	P	SC	Neuwerk-II Condensed Bold Ital.
9801	P	SC	Neuwerk-II Condensed Bold
9901	P	SC	Neuwerk-II Condensed
0530	P	SC	PiktoWin
5100	P	SC	Amrum
5200	P	SC	Amrum Bold
5300	P	SC	Amrum Italic
7500	P	SC	Antigua
7700	P	SC	Antigua Bold
7800	P	SC	Antigua Italic
7900	P	SC	Antigua Bold Italic
9199	P	SC	Tasmanien-II Bold Italic
9299	P	SC	Tasmanien-II
9399	P	SC	Tasmanien-II Italic
9499	P	SC	Tasmanien-II Bold

PCL 5 compatible (bracket spanning from 0699 to 9499)

Notes: Additional fonts can be selected from the font catalogue depending upon the memory capacity.

You can use the panel function Printing the Font List (see section 6.10) to generate a list of all fonts installed to the printer.

_____

6.24. Text Orientation Selection

This function selects the active text orientation.
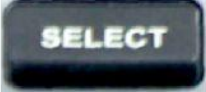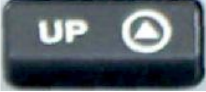
Panel display		Notes
[Online]	☰ MENU	Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
. . .	UP ▲	Press the **UP ▲** or **DOWN ▽** key until [Page Menu] is displayed.
[Page Menu]	↓	
	SELECT	Press this key. The Page Menu is selected.
[Font Number]	↓	
. . .	UP ▲	Press the **UP ▲** or **DOWN ▽** key until [Orientation] is displayed.
[Orientation]	↓	
	SELECT	Press this key. The Orientation menu is selected.
[Orientation 0]	↓	
. . .	UP ▲	Press the **UP ▲** or **DOWN ▽** key until the desired text direction is displayed.
[Orientation 1]	↓	
	SELECT	The orientation 1 = landscape is selected.
[Save as Setup?]	☰MENU SELECT ☰MENU	In addition this new value can be saved as setup value (using the **SELECT** key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the **☰MENU** key longer than 2 seconds.
[Online]		

Text orientation
assignment:

Orientation 0 = Portrait (upright format)
Orientation 1 = Landscape (horizontal format)
Orientation 2 = Portrait upside down
Orientation 3 = Landscape upside down

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_____

6.25. Symbol Code Selection

This function selects the active symbol code.

Panel display   Notes

[Online   ]   ☰ MENU
                                            Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

. . .   UP ⊿   Press the UP⊿ or DOWN⊽ key until
                                            [Page Menu] is displayed.

[Page Menu   ]   ↓

                             SELECT   Press this key. The Page Menu is selected.

[Font Number   ]   ↓

. . .   UP ⊿   Press the UP⊿ or DOWN⊽ key until
                                            [Symbol Code] is displayed.

[Symbol Code   ]   ↓

                             SELECT   Press this key. The Symbol Code menu is
                                            selected.

[902, IBM PC-II]   ↓

. . .   UP ⊿   Press the UP⊿ or DOWN⊽ key until the desired
                                            symbol code is displayed.

[901, IBM PC-I   ]   ↓

                             SELECT   The symbol code 901, IBM PC-I is selected.

[Save as Setup?]   ↙   ↘   In addition this new value can be saved as
                             ☰MENU SELECT   setup value (using the SELECT key), before the
                                ↘   ↙   printer is turned ON LINE again. After this
                                ☰MENU   decision turn the printer ON LINE again: Press

[Online   ]   the ☰MENU key longer than 2 seconds.

_____

6.26. Lines per Inch Setting (Line Spacing)

This function sets the number of lines per inch. This setting is effective only in case of using the printer as a line printer. With a small number of lines per inch, line spacing will be relatively large. (Ref. IDOL Programming Manual).

Panel display   Notes

[Online   ]   **☰ MENU**   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

  . . .   **UP ⊙**   Press the **UP ⊙** or **DOWN ⊙** key until [Page Menu] is displayed.

[Page Menu   ]   ↓

                             SELECT   Press this key. This selects the Page Menu.

[Font Number   ]   ↓

  . . .   **UP ⊙**   Press the **UP ⊙** or **DOWN ⊙** key until [Line Spacing] is displayed.

[Line Spacing   ]   ↓

                             SELECT   Press this key. This selects the Line Spacing configuration menu.

[Digit4   006.5]   ↓   6.5 lpi = currently set value. (**l**ines **p**er **i**nch).

                             UP ⊙   Pressing the **UP ⊙** or **DOWN ⊙** key changes the value of the current digit. (Digit 4 = left position, in this example: 0). Pressing the **SELECT** key moves you to the next digit (the **☰ MENU** key moves you back, if need be).

  . . .

[Digit1   010.0]   ↓

                             SELECT   The number of lines per inch was increased to 10 lpi.

[Save as Setup?]   ↙   ↘   In addition this new value can be saved as setup value (using the **SELECT** key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the **☰ MENU** key longer than 2 seconds.
                          ☰ MENU **SELECT**
                             ↘   ↙
                             ☰ MENU

[Online   ]

_____

6.27. Number of Characters per Inch Setting (Character Spacing)

This function sets the number of characters per inch. This setting is effective only in case of using a line printer emulation. With a small number of characters per inch, character spacing will be relatively large. (Ref. IDOL Programming Manual).

Panel display   Notes

`[Online            ]`   Turn the printer OFF LINE with this key.

`[Menu Level 1      ]`

`   ...`   Press the ⬆ or ⬇ key until [Page Menu] is displayed.

`[Page Menu         ]`

                                           Press this key. This selects the Page Menu.

`[Font Number       ]`

`   ...`   Press the ⬆ or ⬇ key until [Char. Spacing] is displayed.

`[Char. Spacing     ]`

                                           Press this key. This selects the configuration menu.

`[Digit4    013.3 ]`   13.3 cpi = currently set value. (**c**haracters **p**er **i**nch).

                                           Pressing the ⬆ or ⬇ key changes the value of the current digit. (Digit 4 = left position, in this example: 0). Pressing the SELECT key moves you to the next digit (the MENU key moves you back, if need be).

`[Digit1    012.0 ]`

                                           The number of characters per inch was reduced to 12 cpi.

`[Save as Setup?  ]`

                                           In addition this new value can be saved as setup value (using the SELECT key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the MENU key longer than 2 seconds.

`[Online            ]`

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6.28. Print Speed Adjustment

This function is used to change the print speed (adaptation to the actual used materials, e.g. to optimize the contrast of the printout).

The setting range for the print speed is 2 inch/s up to 6 inch/s (inch per second).

Panel display		Notes
[Online]	☰ MENU	Turn the printer OFF LINE with this key.
[Menu Level 1]	↓	
. . .	UP ⏶	Press the UP ⏶ or DOWN ⏷ key until [Engine] is displayed.
[Engine]	↓	
	SELECT	Press this key. The Engine menu is selected.
[Printspeed]	↓	
	SELECT	Press this key. The Printspeed menu is selected.
[6 inch/s]	↓	The current set value is displayed.
. . .	UP ⏶	Press the UP ⏶ or DOWN ⏷ key until the desired value is displayed.
[4 inch/s]	↓	
	SELECT	Here the print speed is reduced to 4 inch/s.
[Save as Setup?]	↙ ↘ ☰MENU SELECT ↘ ↙ ☰MENU	In addition this new value can be saved as setup value (using the SELECT key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press
[Online]		the ☰MENU key longer than 2 seconds.

_____

_____

6.29. Density (Contrast) Setting

Using this function the print density (contrast) of the printed characters can be changed. Values from 10% to 120% are settable *).

<u>Panel display</u>   <u>Notes</u>

[Online   ]   **☰MENU**   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

. . .   **UP ⊕**   Press the **UP ⊕** or **DOWN ⊙** key until [Engine] is displayed.

[Engine   ]   ↓

SELECT   Press this key. The Engine menu is selected.

[Printspeed   ]   ↓

. . .   **UP ⊕**   Press the **UP ⊕** or **DOWN ⊙** key until [Density] is displayed.

[Density   ]   ↓

SELECT   Press this key. This selects the Density setting menu.

[Density: 90 %]   ↓   The currently set value is displayed.

. . .   **UP ⊕**   Press the **UP ⊕** or **DOWN ⊙** key until the desired value is displayed.

[Density: 60 %]   ↓

SELECT   Here the density is reduced to 60 % (the contrast is decreased).

[Save as Setup?   ]   ↙ ↘   In addition this new value can be saved as

☰MENU   SELECT   setup value (using the **SELECT** key), before the

↘ ↙   printer is turned ON LINE again. After this

☰MENU   decision turn the printer ON LINE again: Press

[Online   ]   the **☰MENU** key longer than 2 seconds.

*) Note: Please consider that using high density values (more than 100%) can result in a reduced lifetime of the printhead.

_____

6.30. Image Shifting to the X-Direction

This function shifts the print image in relation to the paper to the X-direction (crosswise the print direction).

Panel display   Notes

[Online   ]

Turn the printer OFF LINE with this key.

[Menu Level 1   ]

Press the [UP] or [DOWN] key until [Engine] is displayed.

[Engine   ]

Press this key. The Engine menu is selected.

[Printspeed   ]

. . .

Press the [UP] or [DOWN] key until [Image X-Pos.] is displayed.

[Image X-Pos.   ]

The panel function Image Shifting to the X-Direction is selected.

The currently set value is displayed (0 =Default).

[X-Pos.:   0 Dot]

Press the [UP] or [DOWN] key until the desired value is displayed. Values from -288 up to +288 dot are settable, so a max. image shifting of approx. ±1 Inch (approx. ±25 mm) can be reached.

. . .

[X-Pos.:+160 Dot]

Now the new image X-Position is saved.

[Save as Setup?]

In addition this new value can be saved as setup value (using the [SELECT] key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the [MENU] key longer than 2 seconds.

[Online   ]

_____

Example for shifting the image to the X-direction:

Image shifting to the X-direction

Printout after the image shifting to the X-direction. In this example the value of the Image X-Position was increased ([UP ⌂] key).

Feed direction (print direction)

Previous position of the printout margin (prior to the image shifting)

_____
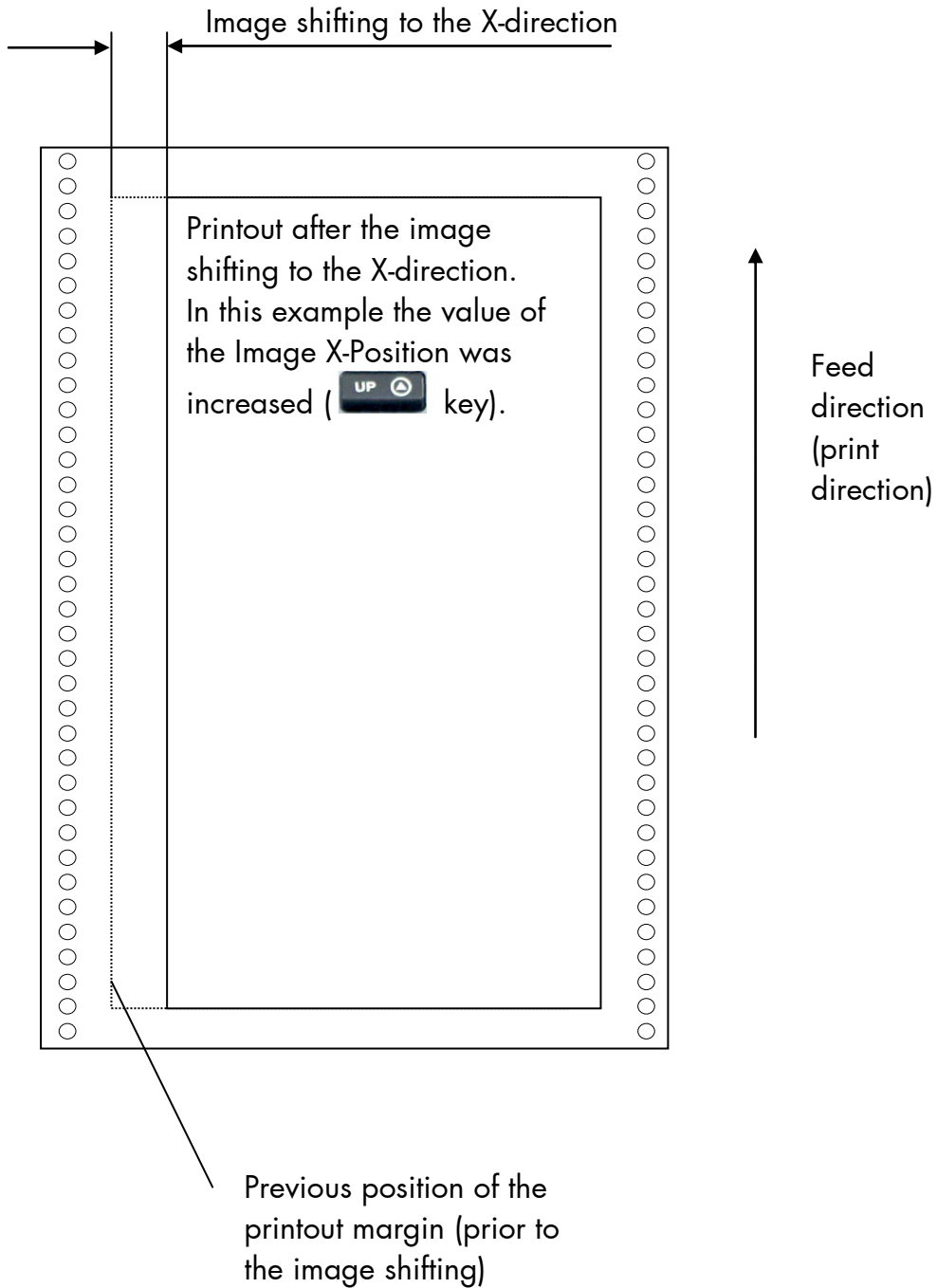
6.31. Image Shifting to the Y-Direction

This function shifts the print image in relation to the paper to the Y-direction (print direction).

Panel display   Notes

[Online   ]

Turn the printer OFF LINE with this key.

[Menu Level 1   ]

. . .   Press the ⬆ UP or ⬇ DOWN key until [Engine] is displayed.

[Engine   ]

Press this key. The Engine menu is selected.

[Printspeed   ]

. . .   Press the ⬆ UP or ⬇ DOWN key until

[Image Y-Pos.] is displayed.

[Image Y-Pos.   ]

The panel function Image Shifting to the Y-Direction is selected.
The currently set value is displayed (0 =Default).

[Y-Pos.:   0 Dot]

Press the ⬆ UP or ⬇ DOWN key until the desired value is displayed. Values from -496 up to +496 dot are settable, so a max. image shifting of approx. ±1.6 Inch (approx. ±42 mm) can be reached.

. . .

[Y-Pos.:+120 Dot]

Now the new image Y-Position is saved.

[Save as Setup?   ]

In addition this new value can be saved as setup value (using the SELECT key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the MENU key longer than 2 seconds.

[Online   ]

Example for shifting the image to the Y-direction:

Image shifting to the Y-direction

Printout after the image shifting to the Y-direction.
In this example the value of the Image Y-Position was increased (UP ⌂ key).

Feed direction (print direction)

Previous position of the printout margin (prior to the image shifting)
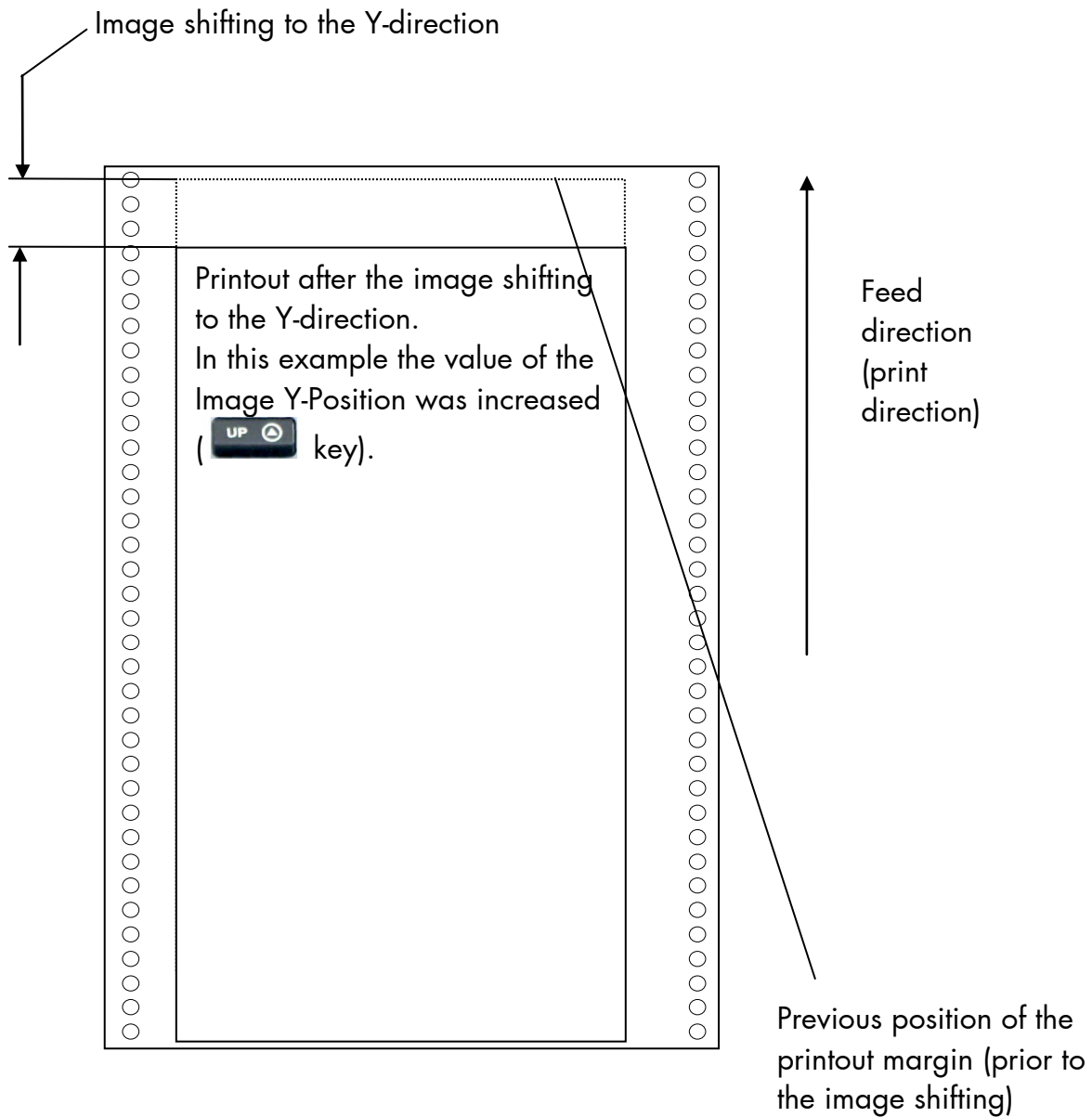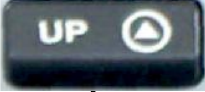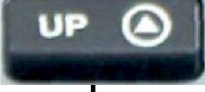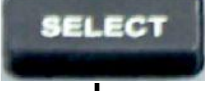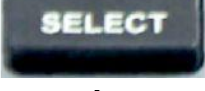
6.32. Peripheral Device Activation (Tear Off Edge, Cutter)

After installation or deinstallation of a peripheral device this function has to be used to adjust the printer configuration.

Start the printer in the **Service Mode:**

	Panel display	Notes

Turn the printer off

 +

Before starting the printer the **and** **key have to be pressed simultaneously**.

Turn the printer on

Turn the printer on and keep the two keys pressed until the messages [Service Mode] is displayed.

[Service Mode]

Release the keys.

Now the functions of the service menu are available (compare dashed areas in the Menu Structure of section 5.6).

_____

Peripheral device selection:

Panel display   Notes

[Online   ]   ☰MENU   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

    . . .   UP ⊙   Press the UP ⊙ or DOWN ⊙ key until [Engine] is
                             displayed.

[Engine   ]   ↓

                   SELECT   Press this key. This selects the Engine menu.

[Printspeed   ]   ↓

    . . .   UP ⊙   Press the UP ⊙ or DOWN ⊙ key until [ServiceMenu]
                             is displayed.

[ServiceMenu   ]   ↓

                   SELECT   Press this key. This selects the Service Menu.

[Dot Test   ]   ↓

    . . .   UP ⊙   Press the UP ⊙ or DOWN ⊙ key until
                             [Optional Devices] is displayed.

[Optional Devices]   ↓

                   SELECT   Press the SELECT key.

[Periph. Device   ]   ↓

                   SELECT   Press this key. This selects the Peripheral Device
                             submenu.

[TearOff Edge   ]   ↓

    . . .   UP ⊙   Press the UP ⊙ or DOWN ⊙ key until the desired
                             peripheral device is displayed.

[Cutter   ]   ↓

                   SELECT   The cutter is selected.

[Saved !   ]   ↓

_____

MENU Turn the printer ON LINE again: Press the
MENU key longer than 2 seconds.

`[Online            ]`

Hint: After having finished the settings described above, the **printer has to be turned off and on**. After printer power off and on the new settings will be valid.

_____

6.33. Selecting the Tear Off Mode (Option: Cutting Mode)

With this function the printer's material transport can be adjusted to the following media processing.

Panel display	Notes

[Online   ]

Turn the printer OFF LINE with this key.

[Menu Level 1   ]

. . .

Press the UP or DOWN key until [Engine] is displayed.

[Engine   ]

Press this key. This selects the Engine menu.

[Printspeed   ]

. . .

Press the UP or DOWN key until [TearOff Menu] is displayed.

[TearOff Menu   ]

Press this key. This selects the Tear Off menu.

[TearOff Mode   ]

Press this key. This selects the Tear Off Mode menu.

[OFF   ]

. . .

Press the UP or DOWN key until the desired value is displayed

[ON   ]

The tear off mode is selected.

[Save as Setup?]

In addition this new value can be saved as setup value (using the SELECT key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the MENU key longer than 2 seconds.

[Online   ]

_____

Information on the Tear Off mode:

OFF   =   After printing no additional media transport takes place, the printhead position is TOP OF FORM.

ON   =   The printer will feed the material (label) out to the tear edge, waiting for the user to tear it off before printing the next label. This additional media transport after printing enables to disjoin the material along/at the perforation. *)
The tear off mode is not carried out, if the next page is already ready to print. (In this case the next page is printed instead).

*) A draw back of the material can be selected. Prior to the next print job the material is moved back until the printhead position is TOP OF FORM (Real 1:1 Mode).
Use the panel function Selecting the Print Mode for this (see the following pages).

If the **optional cutter** is installed and activated, the menu structure of the printer contains the **Cutting Menu** instead of the Tear Off Menu.
The adjustment of the cutting parameters has to be done in the same way as it is described for the tear off functions.

_____

6.34. Adjusting the Tear Off Position (Option: Cutting Position)

The basis for the tear off position ***) is the detected gap position, i.e. the perforation or the start of the label.

With this function a fine setting of the tear off position is carried out. The setting range for the offset is approximately +- 10.7 mm.

<u>Panel display</u>   <u>Notes</u>

[Online   ]

Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

. . .

Press the [UP ▲] or [DOWN ▼] key until [Engine] is displayed.

[Engine   ]   ↓

Press this key. This selects the Paper menu.

[Printspeed   ]   ↓

. . .

Press the [UP ▲] or [DOWN ▼] key until [TearOff Menu] is displayed.

[TearOff Menu   ]   ↓

Press this key. This selects the TearOff menu.

[TearOff Mode   ]   ↓

. . .

Press the [UP ▲] or [DOWN ▼] key until [TearOff Pos.] is displayed.

[TearOff Pos.   ]   ↓

Press this key. This selects the TearOff Position submenu.

[Position:-2.0 mm]   ↓

The currently set value is displayed.

. . .

Press the [UP ▲] or [DOWN ▼] key until the desired offset is displayed.

[Position:-2.5 mm]   ↓

_____

SELECT The tear off position is shifted 0.5 mm (additionally) in feed direction.

[Save as Setup?]

MENU SELECT

MENU

In addition this new value can be saved as setup value (using the **SELECT** key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the **MENU** key longer than 2 seconds.
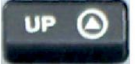
[Online   ]
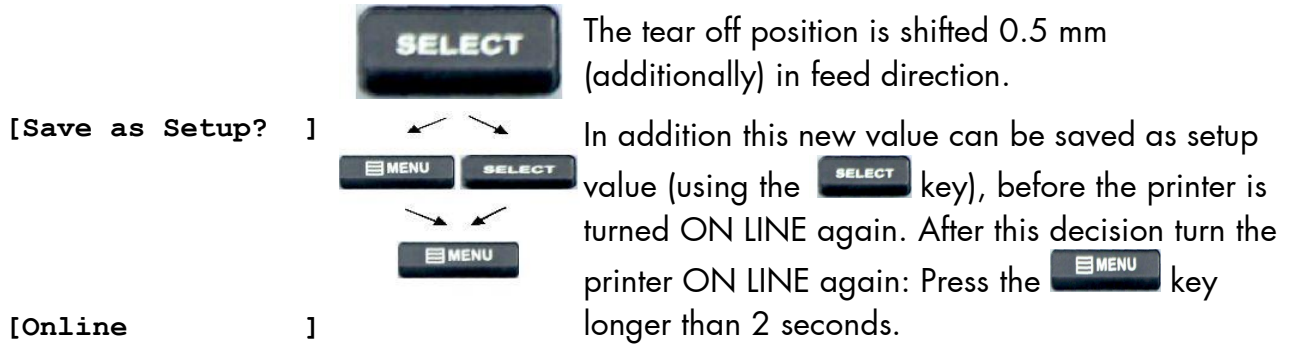
***) If a cutter is installed and activated, the concerning panel function Cutting Position has to be used.

Hints on adjusting the position:

This function is used to change the cutting position of the optional cutter:
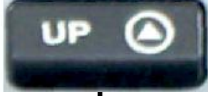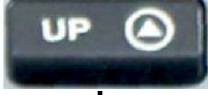
Adjusting causes a shift of the cutting position relative to the printer detected gap position (i.e. relative to the perforation or the start of the label, compare the following figure).

Print head   Cutter

Page, printed

Feed, then cut

Offset: +10,7mm   to -10,7 mm

Setting range for the cutting position
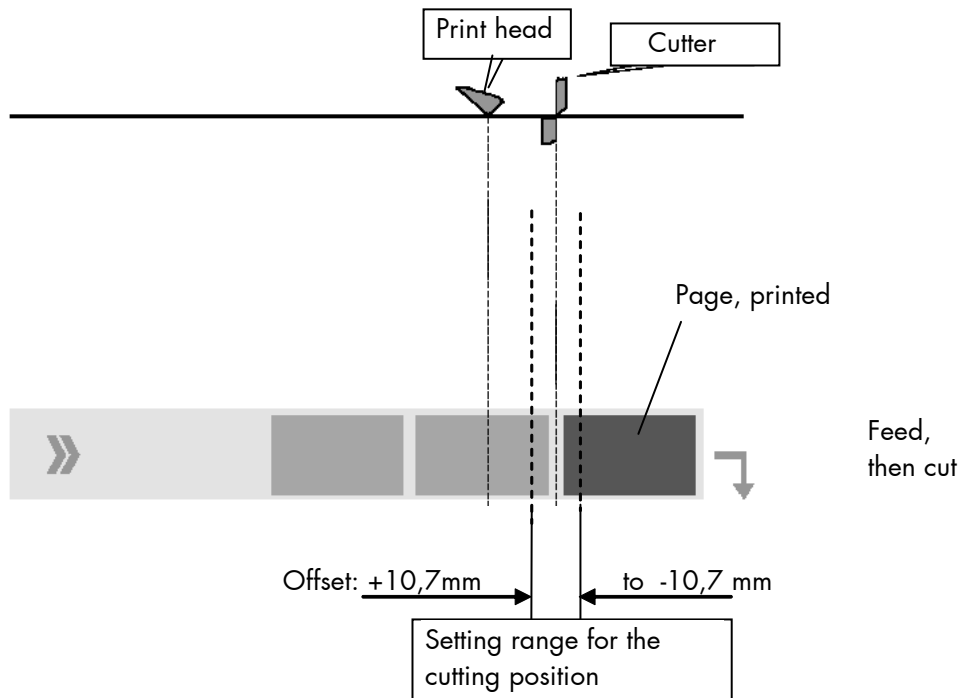
Please note: Changing the SyncOffset has an effect on the cutting position, too. For **further information** see section 6.5 Adjusting the Zero Position of the Material Transport.

_____

6.35. Selecting the Print Mode

With this function the procedure for the label output and print is defined. The different print modes are described on the following pages.

Panel display   Notes

[Online   ]   ⊟MENU   Turn the printer OFF LINE with this key.

[Menu Level 1   ]   ↓

. . .   UP ⊙   Press the UP⊙ or DOWN⊙ key until [Engine] is displayed.

[Engine   ]   ↓

SELECT   Press this key. The Engine menu is selected.

[Printspeed   ]   ↓

. . .   UP ⊙   Press the UP⊙ or DOWN⊙ key until [TearOff Menu] is displayed.

[TearOff Menu   ]   ↓

SELECT   Press this key. The Tear Off menu is selected.

[TearOff Mode   ]   ↓

. . .   UP ⊙   Press the UP⊙ or DOWN⊙ key until [Print Mode] is displayed.

[Print Mode   ]   ↓

SELECT   Press this key. The Print Mode menu is selected.

[Real 1:1 Mode   ]   ↓   The currently set print mode is displayed.

. . .   UP ⊙   Press the UP⊙ or DOWN⊙ key until the desired print mode is displayed.

[Normal 1:1 Mode]   ↓

SELECT   The Normal 1:1 mode is selected.

_____

`[Save as Setup?  ]`
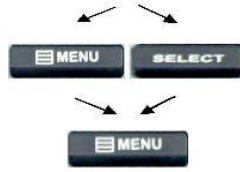
In addition this new value can be saved as setup value (using the [SELECT] key), before the printer is turned ON LINE again. After this decision turn the printer ON LINE again: Press the [MENU] key longer than 2 seconds.

`[Online        ]`

Real 1:1 Mode

The whole surface of the label is printable.
The label is pushed forward to the tear off edge for tear off (see the previous section: Selecting the Tear Off Mode) or to the cutter. **After the tear off/cut**, the **beginning of the next label is drawn back under** the **printhead**. This reduces the output volume (in relation to a certain time).

Print head

Tear off edge or cutter

1. Print

2. Print end

3. Feed, then tear off /cut

4. Return

Label, unprinted

Label, printed

_____
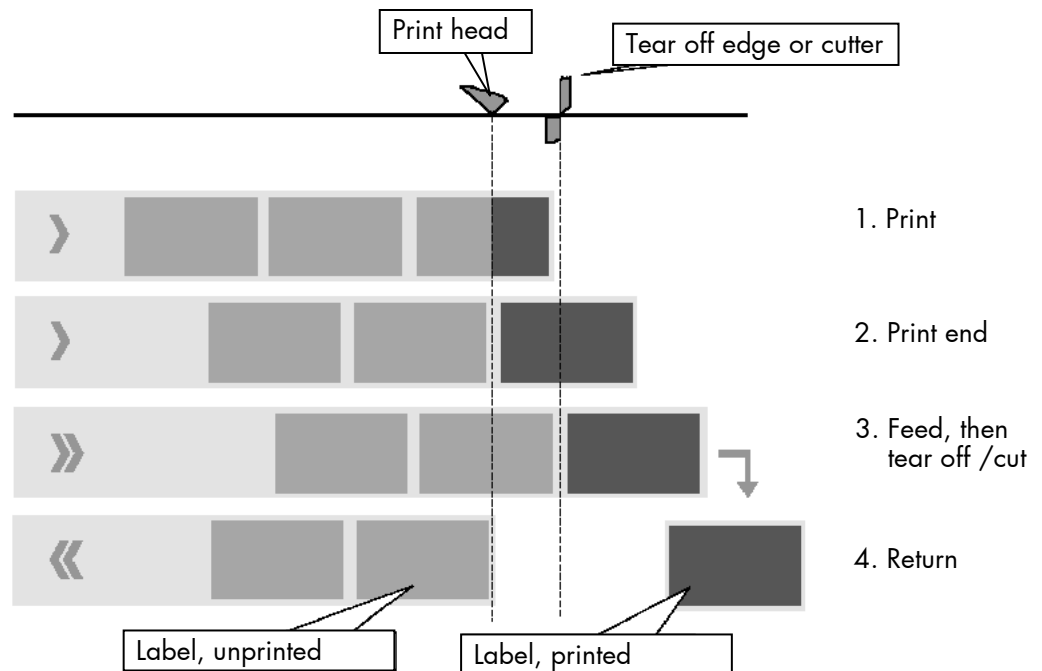
Normal 1:1 Mode

In this mode after tear off or cut no draw back of the unprinted material takes place. The output volume is at its maximum level. As a result the first approx. 30 mm of the label are not printable. These measurements correspond to the distance between printhead and tear off edge. When using the cutter the first approx. 35 mm of the label are not printable.

_____
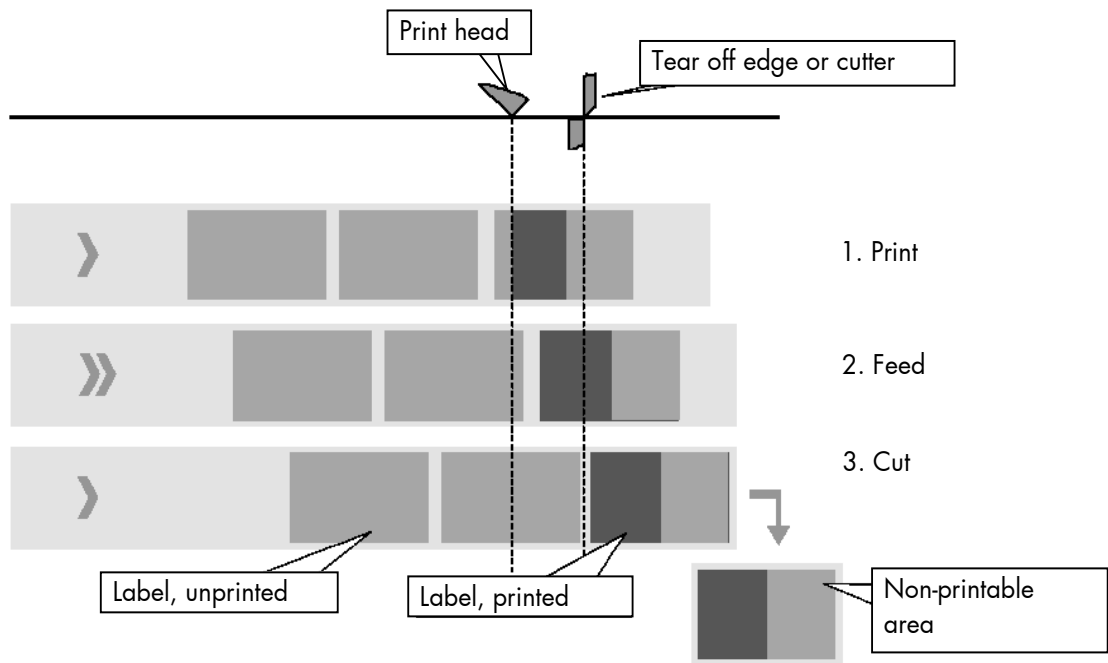
6.36. Configuration of Network Parameters (IP Address, e.g.)

The functions of the submenu Network are used to set the
parameters for connecting the printer to a network (Ethernet).

Setting the IP address manually:

<u>Panel display</u>   <u>Notes</u>

[Online   ]

Turn the printer OFF LINE with this key.

[Menu Level 1   ]

  . . .

Press the **UP** or **DOWN** key until [Network] is
displayed.

[Network   ]

Press this key. The Network menu is selected.

[Timeout   ]

  . . .

Press the **UP** or **DOWN** key until [Ethernet] is
displayed.

[Ethernet   ]

Press this key. The Ethernet menu is selected.

[IP Assign   ]

Press this key. The IP Assign menu is selected.

[Off   ]   The current configuration is displayed.

  . . .

Press the **UP** or **DOWN** key until [Manual] is
displayed.

[Manual   ]

Press this key to change address assignments,
manually.

[IP Address   ]

Press this key to set the IP address manually.

[192.168.002.002]   The current IP Address is displayed.

_____

Pressing the [UP ⊙] or [DOWN ⊙] key changes the value
of the current digit. (Left digit first, in this example: 1).
Pressing the [SELECT] key moves you to the next digit
(the [≡MENU] key moves you back, if need be).

. . .

`[192.168.010.123 ]`   ↓

The new IP address is saved as setup value.

`[Saved !            ]`   ↓

Turn the printer ON LINE again: Press the
[≡MENU] key longer than 2 seconds.
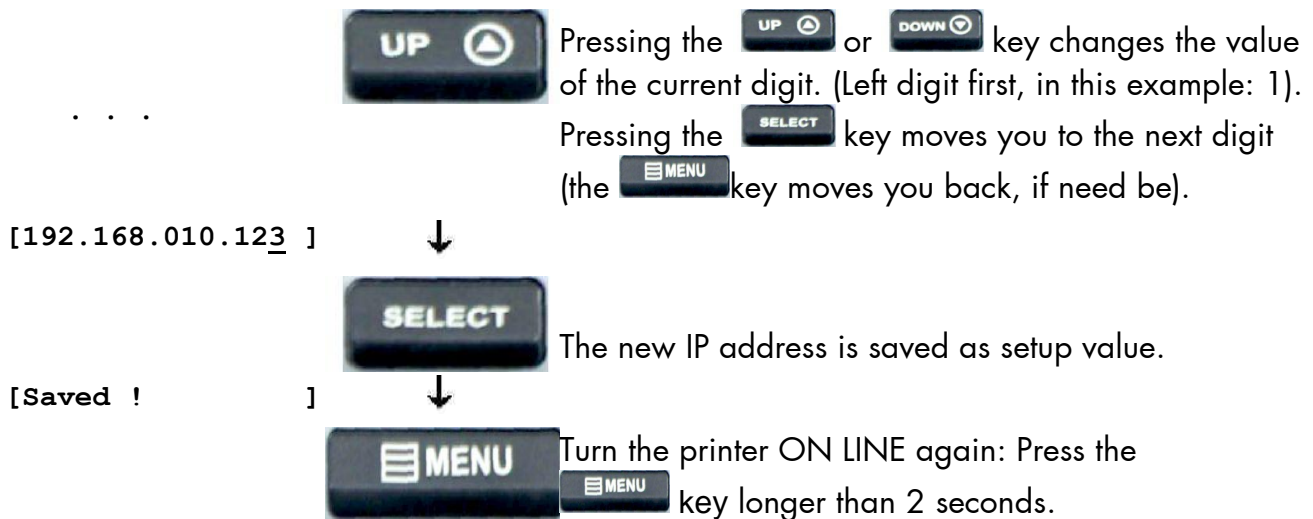
Note: The current network settings are shown on the
                 Status Sheet of your printer, too.

Notes: If your network is using DHCP[①] , an address can be automatically
assigned (select the item **DHCP** from the network submenu IP
Assign).

The parameters **Subnet Mask** and **Gateway** are configured in
the same way as described above. Please select the concerning
panel functions for this (compare section 5.6 Menu Structure).

Select the subitem **Off** from the network menu to switch off the
network access.

① Dynamic Host Configuration Protocol: offers among other things
   a centralized address management.

_____

Duplex/Speed Setting

This panel function is located in the network menu
(submenu Duplex/Speed Setting).

The factory default value is Autonegotiation.
  Autonegotiation means that devices on the network agree a
  transmission mode, which each unit is able to handle, before
  data transmission starts. By this the printer automatically
  adjusts itself to maximize link performance.

Hint: Autonegotiation is the recommended setting!
  If you set the Duplex/Speed parameters manually, you may
  experience problems. Wrong settings can slow down the
  speed of the link (worst case: communication does not occur).

Explanations:

  Auto-Negotiation
  A Ethernet procedure that allows devices at either end of a
  link segment to advertise and negotiate modes of operation
  such as the speed of the link (100 Mbit/s or 10 Mbit/s) and
  half- or full-duplex operation.

  Half duplex
  A device can either receive or send data at a given time.

  Full duplex
  Capability of a device for sending and receiving data at the
  same time. In the case of full duplex, collision detection is
  deactivated. A full duplex capable device is able to buffer
  data packets.

7. Operator Maintenance

In order to run the printer on its highest quality level, it is necessary to perform regularly simple cleaning operations, and to occasionally replace certain components.
These operations can be performed by a MICROPLEX trained operator. A not trained person is not allowed to perform these operations.

7.1. Printer Cleaning

By a regular and conscientious performance of the following operations, the printer is guaranteed to always work at an optimum reliability.

For safety pull out the mains plug first. Make sure the elements that are to be cleaned have cooled down.

Please be especially careful to avoid damaging mechanical or electronic modules.
Do not use detergents, or any other devices or tools not mentioned in this manual to avoid damages and unnecessary costs of repairs.

For the following cleaning operations the concerning parts or modules have to be freely accessible. Because of this please perform the following operational steps first if necessary:

- ribbon removal (see section 4.2.2)

- media removal (see section 4.3.2)

After the cleaning operations please load the wanted consumables (again), see chapter 4: Handling of Consumables.

7.1.1. Printer Cabinet Cleaning

Soilings like dust, grease or similar things can be removed with a soft, lint-free cloth. If necessary the cloth can be moistured with water or a neutral detergent. Inside the printer dust or paper dust can be removed best with a soft (non-metallic) brush.

7.1.2. Printhead Cleaning

This maintenance operation should be done after each ribbon exchange or not later than the print quality is reduced (unwanted "lines" or "gaps" in the printout).

Please pay attention to the following:
- For the printhead cleaning there is <u>no need</u> to disassemble or remove the printhead.
- The printhead can be damaged by electrostatic charges. Therefore first of all touch a properly grounded part of the printer (the base plate of the printer, e.g.).

1. First push the printhead release lever clockwise.

2. The printhead moves up.

3. Take out the ribbon if one is loaded.

4. Clean the printhead:

a) Using a **soft, lint-free cloth** or a **special cleaning pen**:

- Move the cloth or pen along the print area of the printhead (see figure 7.1.2.a). This working step requires light pressure and has to be repeated several times.

_____
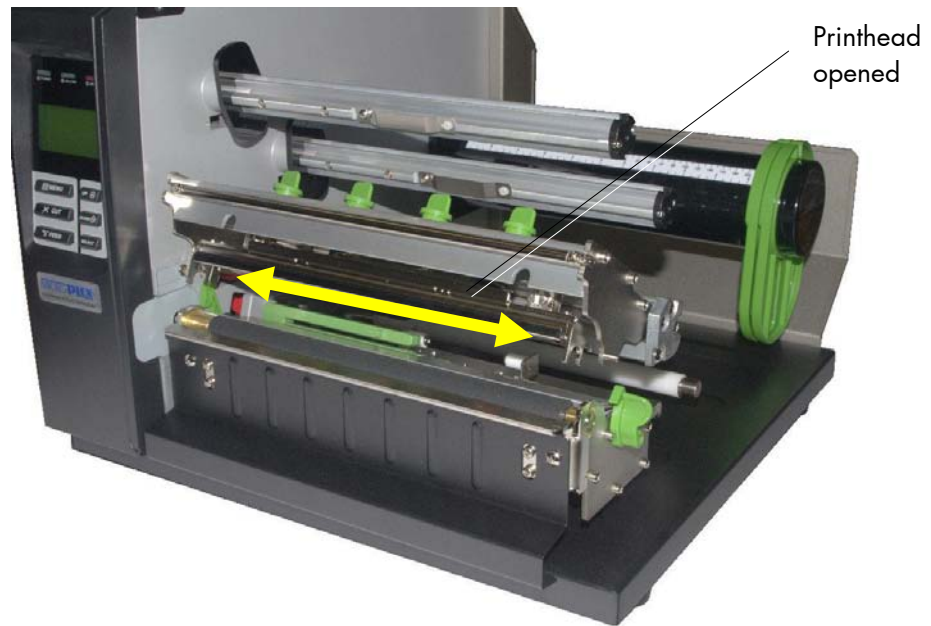
Fig. 7.1.2.a Cleaning the printhead

b) Using **Spirit** for the cleaning work:

Spirit (Ethanol) should only be used if the cleaning results achieved using the method described above are not good enough!

Spirit is an easily combustible liquid!
Take notice of the safety instructions for combustible liquids!

Don't smoke!

• Use a soft lint-free cloth, moisten it with spirit and then use it to wipe several times along the print area of the printhead (compare figure 7.1.2.a).

• Allow the printhead to dry for 2-3 minutes.

5. Install a ribbon, if you want to operate the printer in the thermal transfer mode.

6. Close the printhead release lever.

7. The printhead moves down and the printer is ready for printing again.

To help keep the printhead clean and to avoid premature wear out of the printhead, the hood of the printer should always be closed. Moreover it is not allowed to use dusty or dirty print media.

7.1.3. Platen Roller Cleaning

The printer's platen roller (transport roller below the printhead) can be soiled by the print media (e.g. with adhesive residues).

For the following cleaning operations the hints of section 7.1.2 are valid, too !

Stickings can be removed best with a soft lint-free cloth saturated with isopropyl alcohol (99.9 %).
Make sure the platen roller has been cleaned on its whole extent so that there is no reason for irregular media transport after that.

Allow the platen roller to dry for at least 3 minutes.

7.2. Adjusting the Right Pressure Value

A correction of the pressure value is necessary, if the diameter of the new printmedia is bigger or smaller than the previous one.
In addition the pressure value can be modified in order to adapt the characteristics of the consumables. An increase of the pressure value, for example, can improve the transfer of the image onto the printmedia.
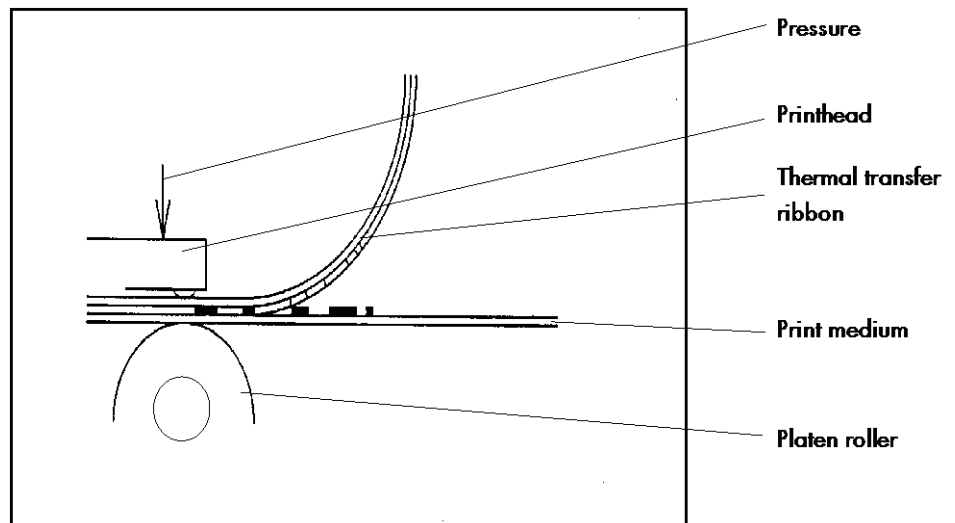
Fig. 7.2.a Principle view of the print process

While printing small labels the printhead may come in contact with the print roller just in that area that isn't covered by the label.
This may lead to an accelerated abrasion of the printhead and to a print quality that isn't even over the whole print width.

The operation steps to adjust the pressure value are described in section 4.4 (Printhead Pressure Adjusting).

Please consider that increasing the pressure value will increase the friction between printhead, ribbon, printmedia and the print roller, too. The abrasion of the concerning components (for example the printhead surface) will be accelerated considerably due to the increase of the pressure value.

8. Troubleshooting

When an error occurs, a corresponding error message is displayed in the control panel (see section 8.1).

Please address the problems described in this chapter yourself (especially the consumable replacement).
Please regard the following subjects if an opening of the printer becomes necessary:

- While operating the printer components inside the device will heat up. Take care that you do not burn your fingers when removing a paper jam.

- Make sure all covers of the device are completely closed afterwards.
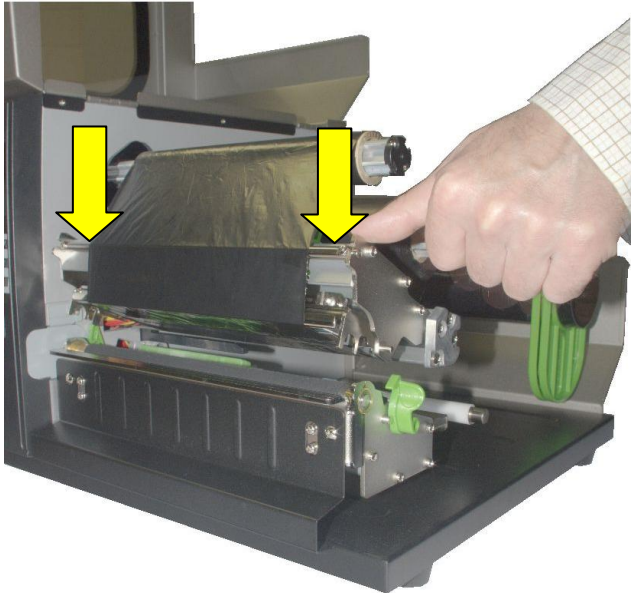
Any others but the troubles described on the following pages are only to be repaired by a MICROPLEX authorized operator or a service engineer.
When reporting a problem to your service engineer, please give him the exact error message. That helps to localize the error more quickly.

8.1. Printer Error Messages

Panel display	Remedies

[Load Paper   ]
or
[Paper End   ]
	- insert a printmedia (paper, roll-fed media e.g.)
	- make sure the media has been
	  loaded correctly
	  (compare section 4.3)
	- clean the sensors
	  (compare section 7.1)

[Foil Error!]	The thermal transfer print mode is selected.
	A printer ribbon is needed.
	- insert a ribbon
	- make sure the ribbon has been
	  loaded correctly
	  (compare section 4.2)
	- Correct the print process setting, if you don't
	  want to use a ribbon.
	  (compare section 6.2)

_____

[Head open!]	The printhead assembly is not firmly in place. Re-open the printhead assembly and make sure it closes tightly: - swivel the printhead mechanism downward and use both hands to push down gently to lock. Fig. 8.1.a Swivelling the printhead mechanism with both hands down until it clicks into place

Panel display	Remedies

[Paper Jam !   ]
 	
or
 	
[Punch Error   ]
 	
or
 	
[Sync.Mark Error   ]
	These error messages indicate a paper jam:
	- remove the jammed consumables
	  (labels sticking together e.g.)
	- reload the consumables (paper)
	  (see chapter 4)
	- perform the basic operations
	  (see chapter 3)
	
	- For further **information about the avoiding of paper jams** please take notice of section 8.3 Incorrect Media Transport
	
	- check the position of the reflective sensor.
	- set the reflective sensor position in accordance to your consumables.
	  See section 6.1.2 Checking and Adjusting the Sensors.
	 - clean the sensors
	   (compare section 7.1)
	
	- After a repeated paper jam please check first that all material pieces are removed.

_____

[HeadNot Found!]	- the printhead is not connected or faulty.
[Head defectiv!]	- the printhead is defective. A new printhead has to be installed.
[High Head Temp.]	The printhead temperature is too high. - make sure the consumables have been loaded correctly (compare section 4.2 and 4.3)
[Head Life End!]	- a new printhead has to be installed
[CutterNotFound!]	The optional cutter is selected, but not connected or defective. - make sure the cutter is installed correctly. Also, see section 6.32 Peripheral Device Activation (Tear Off Edge, Cutter) - Unselect the cutter, if the cutter was deinstalled. See section 6.32
[Cutter Error!]	An error occured during cutter operation. - check for a paper jam. Remove the jammed paper. - reload the consumables (paper)

If the remedies above are not successful, please call a MICROPLEX authorized service engineer.

_____

8.2. Reduced Print Quality

Defect	Remedies
Printout too light	- check the print process selecting and correct it, if necessary (see section 6.2) - check the printhead pressure (see section 4.4 Printhead Pressure Adjusting and section 7.2 Adjusting the Right Pressure Value). - check the ribbon transport (load the ribbon again, if necessary; see section 4.2) - increase the contrast (see section 6.29) - choose different consumables (adjust media to the ribbon resp. print process or vice versa, see chapter 3, 4 and 6) - check the environment conditions and correct them if necessary (admissible values for humidity, temperature etc., see chapter 2.3 and 10)
Printout too strong	- check the print process selecting and correct it, if necessary (see section 6.2) - reduce the contrast (see section 6.29)

_____

Defect	Remedies
Printout blurred or incomplete	- clean the printhead (see section 7.1.2) - check the ribbon transport (load the ribbon again, if necessary; see section 4.2) - also, see section 8.3: Incorrect Media Transport

If the remedies above are not successful, please call a MICROPLEX authorized service engineer.

_____

8.3. Incorrect Media Transport

Defect	Remedies
Incorrect media transport (no gap detection between labels e.g.)	- perform the basic operations (see chapter 3) - check if the Sync Sensor has been adjusted correctly (see section 6.1) - adjust the position of the reflective sensor suitable to your consumables. - check if the media has been loaded correctly (compare section 4.3) - check if the ribbon has been loaded correctly (compare section 4.2) - clean the the sensors (compare section 7.1) - check if the jammed consumables have been removed completely.
No straight transport of the consumables (torsion or folding of the ribbon, e.g.)	- check if the ribbon has been loaded correctly (compare section 4.2) - check if the media has been loaded correctly (compare section 4.3) - check if the printhead pressure was adjusted correctly (see section 4.4 and section 7.2) - clean the platen roller (see section 7.1.3)

_____

Paper Jam	in addition to the remedies above:
	- push the printhead release lever clockwise
	  to remove the paper (compare chapter 4)
	- check if the jammed consumables have
	  been removed completely.

If the remedies above are not successful, please call a MICROPLEX
authorized service engineer.

8.4. Print Repetition after an Error

The printer is provided with an automatic jam safety function to prevent a loss of data.
When an error occurs, all the pages on the paper path will be printed again. This ensures that no data will get lost.

The exact number of pages to repeat depends on the format length and the position where the error occurred on the page.

This automatic jam safety function can be switched off (by changing the EEPROM - configuration) if the user wants to resume the print job at a position he chooses himself.
In addition to this see panel function Clearing the Input Buffer (section 6.13).

_____

9. Measures for Transport and Shipping (Repacking)

The Printer is shipped with special packing material and fixing measures. It is recommended to store the boxes and those packing materials.

In case of further shipping or returning of the products they must be repacked in the original way in order to avoid damaging during transportation.

The following list gives you an overview of the working steps necessary for repacking. Pay attention to the notices located on the products and the hints given in the Service Manual as well.

If you are not familiar with any of the working steps please ask your service engineer or your supplier.

- Remove the printer's optional peripheral devices (if present).
- Remove the paper.
- Remove the ribbon, if one is loaded.
- Close the printhead.
- Lock all moveable parts of the printer (use all original transport safety devices, adhesive fasteners and so on).

Repack all items in their original packing material and ship them in the original boxes.

10. Specifications

Print technology:	non-impact, thermal transfer printing / thermal direct printing
Print speed:	up to 6 inch / second (up to 150 mm / second)
Resolution:	300 dpi (dots per inch, horizontal and vertical)
Media width:	4 up to 9.5 inch (101.6 up to 241.3 mm) (with cutter: 8.5 inch (215.9mm))
max. Print width:	8.64 inch (219.5 mm)
Media thickness:	0.06 up to 0.25 mm
Interfaces:	parallel: IEEE 1284 (Centronics)
	serial: USB 2.0 Host, USB 2.0 Device
	LAN: Ethernet 10/100 Mbit (TCP-IP)
	Optional:
	parallel: SPS-Control
	serial: RS232, RS422
	WLAN: 802.11 n/b/g

Dimensions:

	Width (W):	440 mm
	Depth (D):	504 mm
	Height (H):	336 mm

Weight:	appr. 23 kg
Environment:	temperature: +5°C to +40°C (operating)
	-40°C to +60°C (storage temperature)
	relative atmospheric humidity: 20 to 85 % (without condensation)
Mains connection:	90 -264 V, AC, 5,5 A, 47-63 Hz; for example:
	230 V AC, 50 Hz, (Europe, United Kingdom e.g.)
	120 V AC, 60 Hz, (North America)

Costs per Page for MICROPLEX Print Systems

The term "costs per page" is the most frequently used one in connection with the purchase of a printer. Nevertheless this term is the one with the biggest lack of definition.
The distributors normally attach great importance to having small values for the costs per page. The user normally wants to have a value that is as realistic as possible.

There isn't any generally valid rule to calculate the costs per page. Therefore values given by different manufacturers are very often not comparable.

The values given by MICROPLEX are based on the utilization time of the so-called consumables of the printer. There isn't any generally valid rule for this calculation, either. Therefore MICROPLEX has fixed the definition of consumables as follows:

1. Consumables   Consumables are parts or substances which the user can exchange or refill without tools.

MICROPLEX understands by this definition that the user can decide by visible criteria when he should exchange or refill consumables. The working steps can be done by the user in accordance with the manual without the usage of tools.

Consumables can be different depending on the printer type.
The most important consumable for example is **toner**.

Usually the utilization time of these materials is given as a number of pages (DIN A4). These values often refer to the print density (3%, 4%, or 5%) which is given as an application specific parameter. Usually a value of 5% print density is defined, very seldom is 4% used.
In the case of a low print density (e.g. 3%) the utilization time increases, in the case of a high print density (e.g. 10%) the utilization time is decreased.
Therefore the utilization time is strongly dependant upon the application.
Experience proves that in professional applications a print density of higher than 5% is usually reached. For a delivery note containing a form and some bar codes a print density of 8 - 10% is quite normal.

There are further parts that must be exchanged in addition to the consumables during the life time of a print system. MICROPLEX divides these additional parts into two categories:

2. Application specific wearing materials

Application specific wearing materials are parts which have to be exchanged by a service engineer or a trained operator. The criterias for the exchange aren't always easily recognizable for a user. Some of the criterias require measuring techniques or the experience of a service engineer or operator.
In a normal application, parts of this category are:
- fuser unit
- process unit (drum, OPC)
- ozone filter

3. Spare parts   Spare parts are exchanged by the service engineer, when they fail.
Examples for spare parts are:
- couplings
- electronic assemblies
- rollers

Depending on the application some parts may change categories under certain circumstances. If for example very rough paper is used, the rollers can become an (application specific) wearing part.

It's a fact, that the right time to exchange a component depends not only on the failure of a component but also on a possible loss of print quality in the printouts.

MNPSQ = Mean Number of Prints with Specified Quality (**SQ**).
This value is often associated with "Lifetime". This term is not correct. MNPSQ describes the period of time in which a defined print quality is maintained.
The print quality is determined by the values for
- print density
- background darkness
- homogeneity

The value **IQ** (Initial Quality) is used to designate the print quality that is reached with a new printer.
CAQ (Customer Acceptable Quality) is a purely subjective lower limit which a respective customer is willing to accept the print quality. An exchange of parts is only then necessary even if the MNPSQ is already exceeded.

11. Index