DASCOM

Tally®

Quick Start Guide

T5040 Matrix Printer

CD-ROM inside

Important Information

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in accordance with the manufacturer's instructions, may cause interference in radio and television reception. It has been type tested and found to comply with the limits for class B computing devices in accordance with the specification in subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a partial installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna,
- Relocate the peripheral away from the receiver,
- Move the peripheral away from the receiver
- Plug the peripheral into a different outlet, so that the peripheral and receiver are on different branch circuits

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet, prepared by the Federal Communications Commission, helpful: “How to Identify and Resolve Radio-TV Interference Problems”.

This booklet is available from the U.S. Government Printing Office, Washington DC 20402 Stock No. 004.000.00345.4.

WARNING: To comply with FCC regulations on electromagnetic interference for a class B computing device, the printer cable must be shielded. To assure compliance with FCC regulations for a computing device, use a shielded interface cable with a metal shell connector. The use of cables not properly shielded may result in violating FCC regulations.

This digital apparatus does not exceed the class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian department of communications.

This unit complies with DOC standard C108.8-M 1983

ATTENTION: Le présent appareil numérique n'ement pas de bruits radioélectriques déspassant les limites applicables aux appareils numériques de la classe B prescrites dans le règlement sur le brouillage radio-électrique édicté par le minstère des communications du Canada.

The paper used is made of raw materials treated with a chlorine-free bleaching process.

Le papier utilisé est fabriqué à partir de matières premières blanchis sans chlore.

CE This device fulfils the European standards requirements by complying with the Directive of the Commission dated May 3, 1989 (89/336/EEC) relating to electromagnetic compatibility and the Directive dated February 19, 1973 (73/23/EEC) relating to low-voltage electrical equipment. Conformity with the above mentioned Directives is indicated by the CE symbol attached to the device.

Note: Conformity may be affected by:

- using interface cables not complying with the specifications
- non-observance of important instructions in the operator's manual
- installing components not approved for this device by the manufacturer
- unauthorized manipulation

CE Cet appareil remplit aux exigences des normes européennes en respectant la directive du Conseil du 3 mai 1989 (89/336/CE) relative à la compatibilité électromagnétique et la directive du 19février 1973 (73/23/CE) en matière du matériel à basse tension. La conformité aux directives mentionnées ci-dessus est repérée par la marque de conformité de la Communauté Européenne (CE).

Remarque: La conformité peut être influencée par:

- l'utilisation de câbles d'interface non spécifiés
- le non-respect de consignes importantes du manuel d'utilisation
- le remplacement de composants qui n'ont pas été homologués pour cet appareil par le constructeur
- l'intervention de personnes non autorisées

WARNING For continued protection against risk of fire, replace only with same type and rating of fuse.
Only trained and qualified personnel may open covers or remove parts that are not explicitly shown and described in the User Guide as being accessible to the operator.

ATTENTION Pour ne pas compromettre la protection contre les risques d'incendie, remplacer par un fusible de même type et de mêmes caractèristiques nominales.
Seul un personnel qualifié et formé est habilité à démonter les sous-ensembles de la machine qui ne sont pas formellement indiqués dans le Manuel d'utilisation meme s'ils sont accessibles par l'opérateur.

QUICK START GUIDE

ENGLISH

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Introduction

This Quick start guide is intended as a quick introduction into working with the printer and also to enable inexperienced users to operate the device properly. It describes the most important functions of the printer and contains the essential information for your everyday work with the printer. A more detailed description of the printer, its characteristic features, and further information is contained in the User guide on the Online CD-ROM, which is inserted at the back of this manual.

Symbols used

Important information is highlighted in this manual by two symbols.

STOP CAUTION highlights information which must be observed in order to prevent injuries to the user and damage to the printer.

NOTE highlights general or additional information about a specific topic.

Important safety instructions

Read the following instructions thoroughly before starting up your printer in order to prevent injuries and avoid damage to the device.

- Keep this Quick start guide in a place which is easily accessible at all times.
- Place the printer on a solid and even base so that it cannot fall down to the ground.
- Do not expose the printer to high temperatures or direct sunlight.
- Keep all liquids away from the printer.
- Protect the printer from shock, impact and vibration.
- Be sure to connect the printer to a socket with the correct mains voltage.
- Always disconnect the system from the mains before opening the device to perform maintenance work or remedy errors.
- The power supply cable may be damaged if the paper edges constantly chafe the insulating sheath. The user must always ensure that there is sufficient distance between the power supply cable and the paper.

STOP *Never carry out maintenance or repair work yourself. Always contact a qualified service technician.*

STOP *Whenever you want to disconnect the printer from the power supply, pull the plug out from the mains socket after having switched off the printer correctly.*

Additional safety instructions are provided at the relevant places in the text.

Using the Online CD-ROM

First install the Adobe Acrobat Reader on your hard disk, unless the program has already been installed. To install it, follow the steps described in the README file in the READER directory.

To start the online documentation, call the Windows Explorer and double click on the START.PDF file. Then follow the instructions and menus on the screen.

Contents of the Online CD-ROM

The Online CD-ROM contains:

- User guide: A detailed description of the printer and its impressive features;
- Drivers: Windows 95/98, Windows 2000, Windows XP;
- Additional documentation: Programmer's application manuals, lists of the supported printer control codes and sequences.

If your CD-ROM is be defective or missing, please consult your dealer. The Online Documentation is also available as a hardcopy (at a cost) or can be downloaded via the Internet.

Hardware requirements

Minimum hardware requirements: PC 486 MHZ, quad-speed CD-ROM, 15" display screen, mouse.

Troubleshooting

The User's Manual on the Online CD-ROM contains detailed Information on how to rectify errors. It deals with general printing problems as well as problems with the print quality and paper feed.

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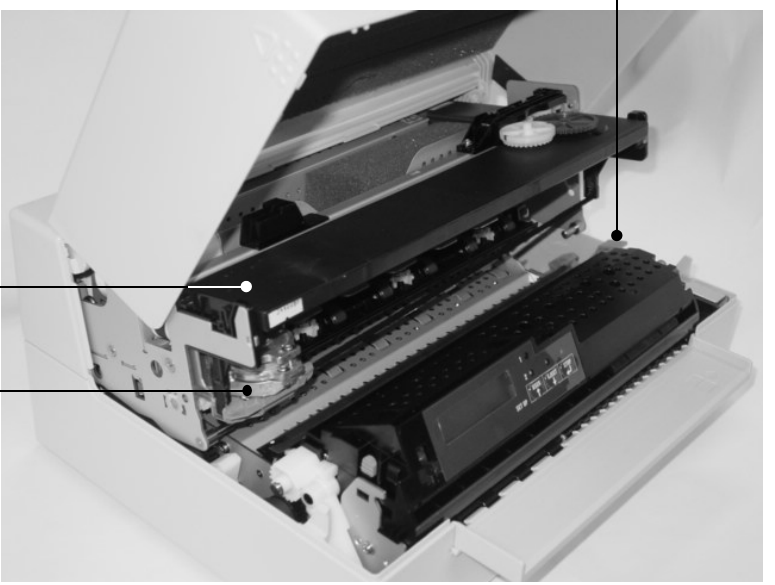
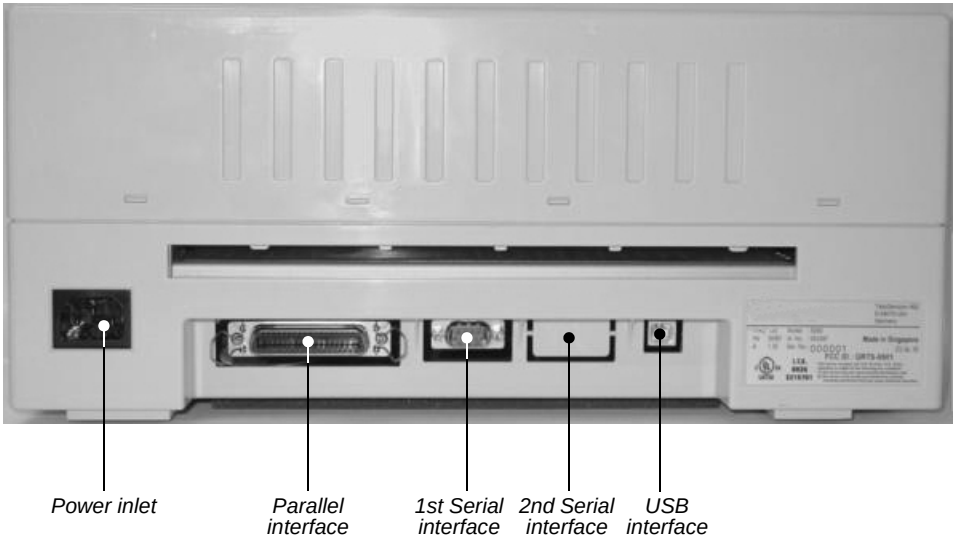
Printer at a glance

View from the front

View with cover opened



View from the rear



Installation

Unpacking the printer

Place your packaged printer on a solid base.

Make sure that the “Up” symbols point in the correct direction.

Open the packaging, lift the printer out of the cardboard box and remove the remaining packaging material.

Check the printer for any visible transport damage and missing items. The following items should be included:

- This Quick start guide
- The CD-ROM (at the back of this manual)
- The power cable
- The ribbon cartridge

If you find any transport damage or if any accessories are missing, please contact your dealer.

Placing the printer

Place the printer on a solid, flat, surface, ensuring that the printer is positioned in such a way that it can not topple, and that there is easy access to the control panel and paper input devices. Also ensure that there is enough space for sufficient ventilation and for the printed output:

Location		Minimum space
Left and right side of the printer		1 cm
Top of the printer		2 cm
Rear of the printer	to ensure sufficient ventilation	10 cm
	to print on a DIN A4 sheet	12 cm

When selecting the printer location, observe the following additional instructions:

STOP *Never place the printer in the vicinity of inflammable gas or explosive substances.*

- Do not expose the printer to direct sunlight. If you cannot avoid placing the printer near a window, protect it from the sunlight with a curtain.
- When connecting a computer to the printer, make sure not to exceed the maximum cable length (see User guide on the Online CD-ROM, *Technical Specifications*).
- Ensure sufficient distance between the printer and any heating devices/radiators.
- Avoid exposing the printer to extreme temperature or air humidity fluctuations. Above all take care to avoid the influence of dust.
- It is recommended to install the printer in a place which is acoustically isolated from the workplace because of the noise it may produce.

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Checking the printer voltage

Make sure that the device has been set to the correct voltage (e.g. 230 V in Europe, 120 V in the USA). To do this, check the type plate at the back of the printer. Contact your dealer if the setting is incorrect.

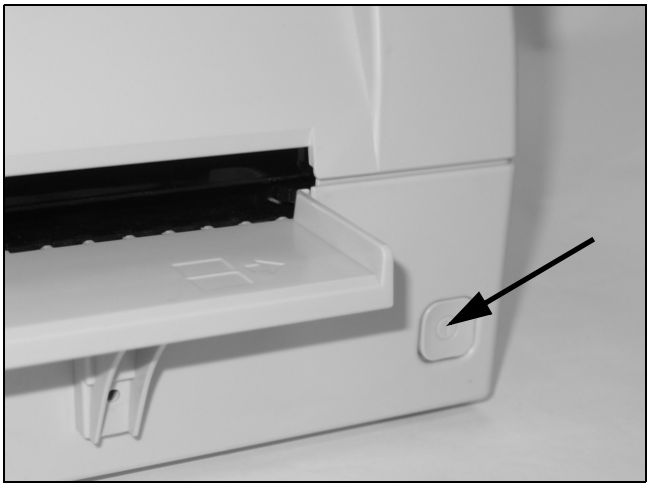
STOP *Never switch on the printer if the voltage setting is incorrect, since this may result in severe damage.*

Connecting the printer

Connect the power cable to the power inlet of the printer. Connect the power cable plug to a mains socket.

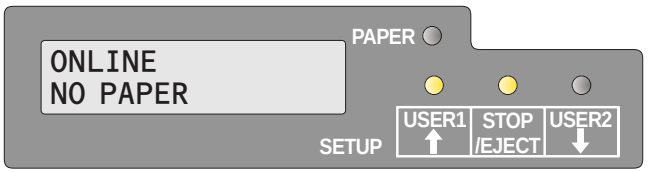
Make sure that the printer and the computer are switched off and connect the data cable between the printer and the computer, in this example a 36-pin centronics parallel cable.

Switching on the printer



Press the power which is located at the front bottom right of the printer switch for switching on the printer.

The printer initializes.



When the initialization is completed, the Ready indicator lights up. The message **ONLINE NO PAPER** appears on the LCD. The printer is in the online status and ready to accept data from the system. You can now insert a document or a passbook.

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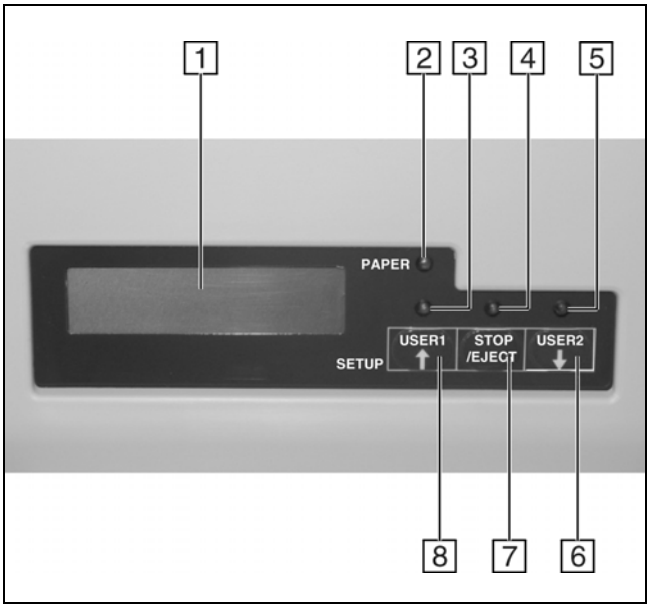
Control panel

The control panel consists of three keys for controlling the printer functions, four LEDs displaying the status of the printer and a LCD display with 2 x 16 digits.



1 LCD display: Displays the internal printer status, operating instructions and error messages.

2 Paper LED: Displays if paper is inserted or not; on = paper is inserted, off = no paper inserted.

3 User 1 LED: Lights up if the User 1 is active, blinks if the printer is receiving data via the first interface (see below).

4 Ready LED: Displays if printer is offline or online; on = online, off = offline.

5 User 2 LED: Lights up if the User 2 is active, blinks if the printer is receiving data via the second interface (see below).

6 USER 2 key: Activated by application only; the functionality of the key depends on the emulation and the application used (see also User 2 LED).

7 STOP/EJECT key: Sets the printer to Online/Offline mode (see also Ready LED); ejects inserted paper.

8 USER 1 key: Activated by application only; the functionality of the key depends on the emulation and the application used (see also User 1 LED).

Please be aware that some emulations and applications may use the LEDs and keys in an entirely different way defined by the emulation and/or host software and outside the definitions contained in this document.

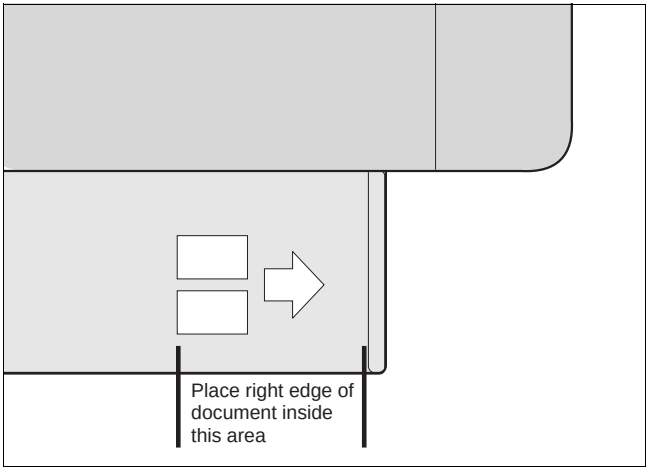
For a detailed overview of the individual functions of the control panel refer to the User Guide on the Online CD-ROM.

Operating the printer

Inserting a document

Before inserting a document make sure that the printer is switched on and the the message **ONLINE NO PAPER** is displayed in the LCD.

Insert the document in such a way that the right paper edge is positioned inside the area between the left side of the symbol and the right edge of the document support, so that the document alignment can grasp it securely. This is especially important for documents that are narrower than a DIN A4 sheet.



Then push the document towards the stop into the document chute.

When the document is drawn in, the message **ONLINE PAPER** appears in the LCD.

When printing is completed, the document is transported out of the printer and released for removal.

The message **ONLINE NO PAPER** appears on the LCD again.

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Inserting a passbook

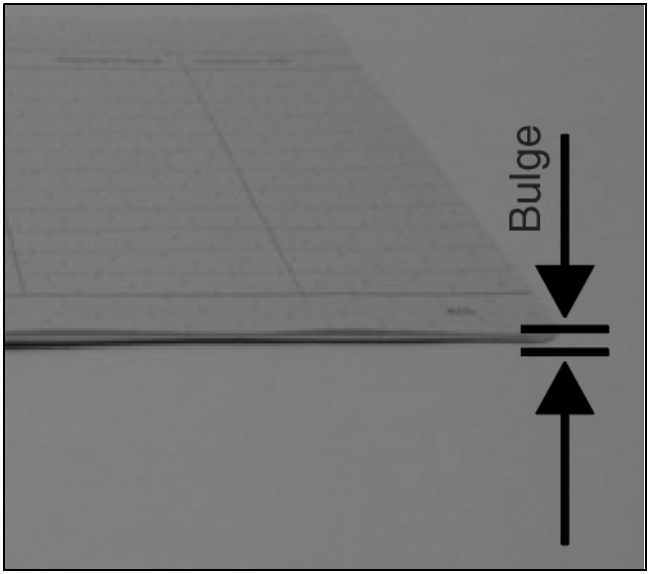
Before processing a new vertical-fold or horizontal-fold passbook, you should eliminate the stiffness of the fold by proceeding as follows.

Open the passbook on the page that you want to print. Bend the fold backwards extremely hard.

Stroke along the fold of the passbook with both thumbs and index fingers and slightly bend the passbook outwards.

If you want to print a new passbook, repeat this procedure several times.

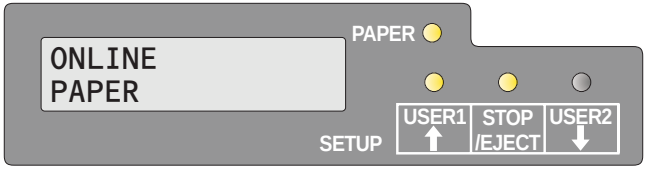
If the passbook has a magnetic stripe, take care not to crease it.



The bulge of the opened passbook should be as flat as possible to ensure trouble-free transportation into the printer.

Place the passbook on the right-hand side of the document support with the page to be printed facing up. The passbook must be entered into the opening of the chute. Once in the chute the printer mechanism will take the book. At this point you may release the book, as the printer will align it against it's right stop position and load it into the printer.

If the automatic document alignment cannot properly grasp stiff or bent passbooks, you should place the passbook manually at the stop at the right-hand side of the document support and insert it.



When the passbook is inserted, the message **ONLINE PAPER** is displayed on the LCD.

STOP *Do not use passbooks that do not correspond to the specifications listed in the section "Paper specifications". Otherwise the passbooks and the print head may be damaged.*

When the passbook is printed, it is automatically transported out of the printer and released for removal.
If the passbook has not successfully ejected from the printer, press the STOP/EJECT key to to take the printer to STOP (Offline) mode. Press the STOP key again to eject the passbook.

The message **ONLINE NO PAPER** appears on the LCD again.

Service and Maintenance

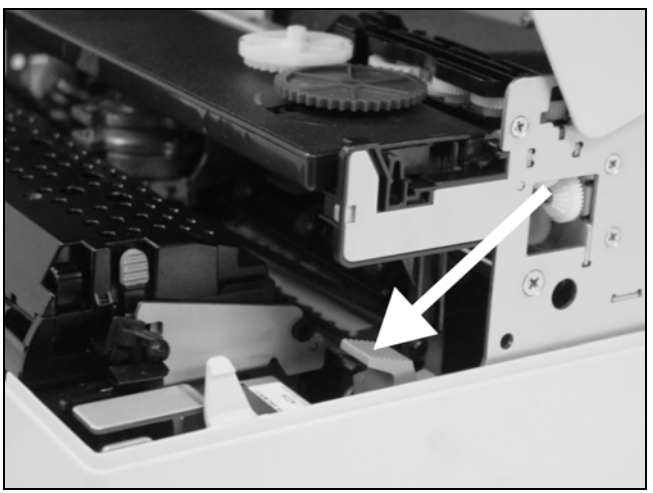
Replacing the ribbon cassette

Make sure that the printer is switched off before replacing the ribbon cassette.

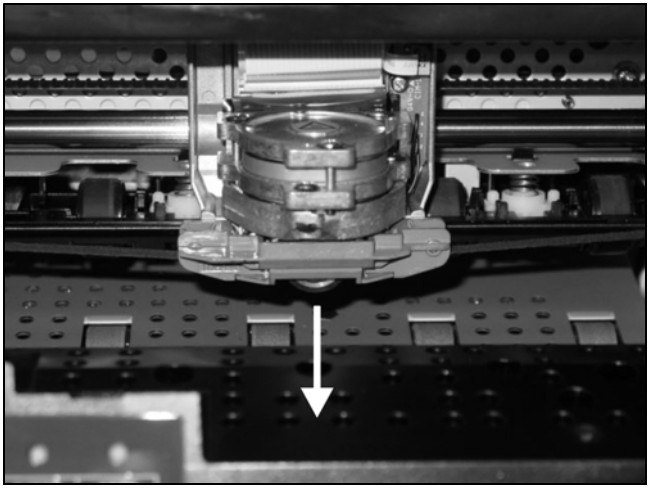
STOP

The print head may be hot if the printer has been printing for a long time. Wait until it cools down and you are no longer in danger of being burnt.

Open the cover by grasping it at the right and left-hand side and swing it upward until it clicks into position.



Press the green release lever for the printing mechanism. This swings the printing mechanism backwards.



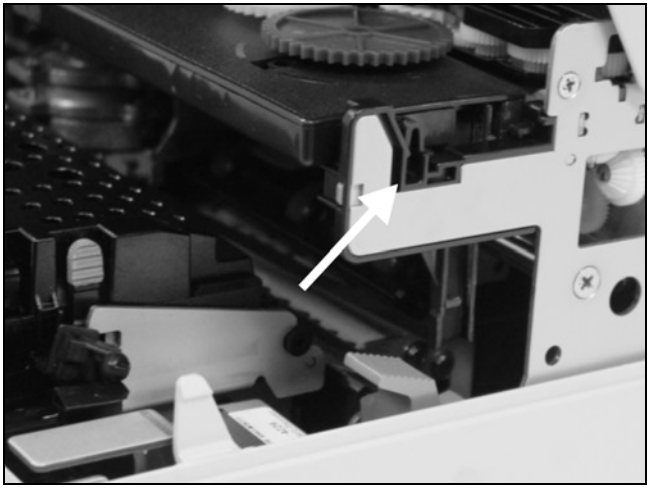
Remove the colored ribbon guide from the print head by pulling it downwards.

Raise the front end of the ribbon cassette on both sides. Take the ribbon cassette out of the printer.

Take the new ribbon cassette from the packaging and lift the ribbon guide from the cassette.

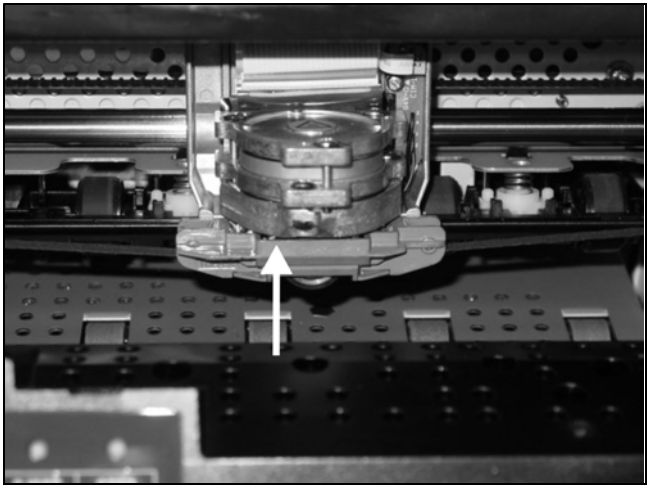
Remove the transportation lock which fixes the ribbon guide to the cassette.

Insert the new ribbon cassette by hooking it into the rear slots of its mountings first.

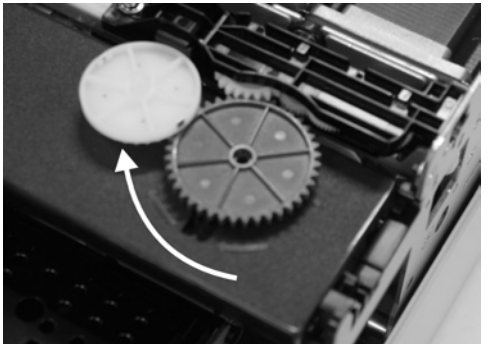


Push the front of the cassette into its mounting so that it clicks into position.

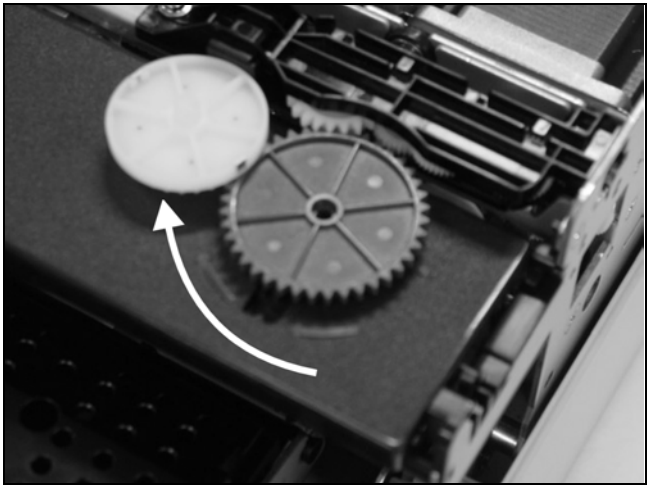
Please do not press the center of the ribbon cassette as this will deform the ribbon cassette and will cause operation problem.



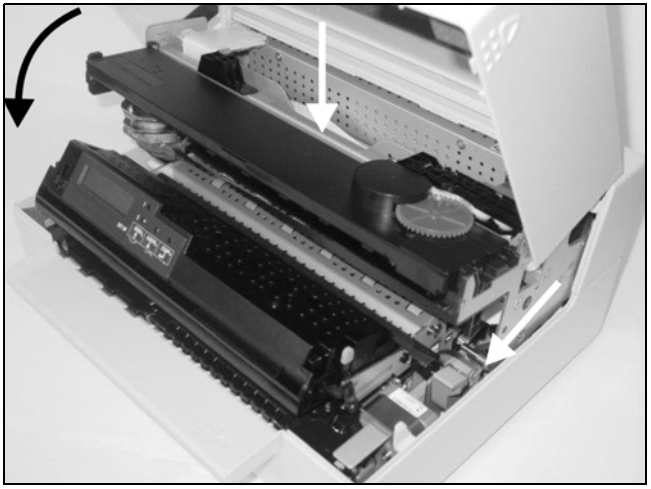
Pull the ribbon guide under the print head. Tighten the ribbon by turning the tension gear in the direction of the arrow.



Press the ribbon guide onto the print head from underneath until you hear it click into place.



Check if the ribbon is transported correctly by turning the tension gear in the direction of the arrow.



Close the main frame by pressing the colored section in the middle of the frame as shown and ensure both left and right hand sides of the frames are fully latched.

Close the cover. The printer is now ready to operate and to be switched on again.

We recommend to check the printer's operation after replacing the ribbon cassette by performing a print-out of the parameter settings (see section “Printing the Status Page” on page 19).

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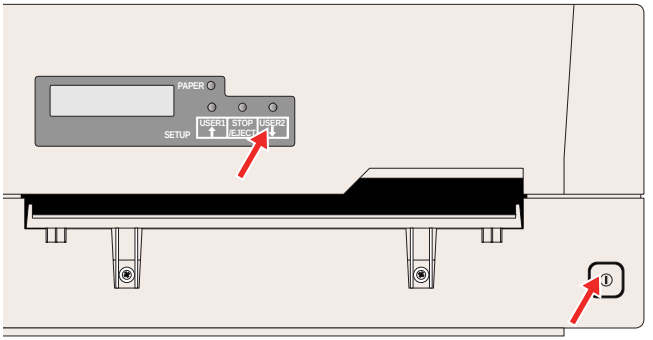
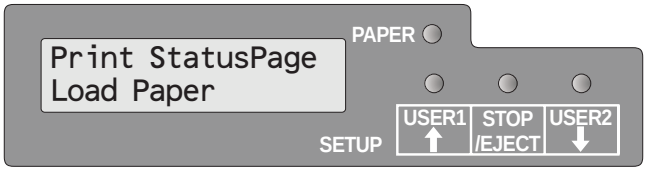
Printing the Status Page

The printer has a function that allows you to printout the current parameter settings.

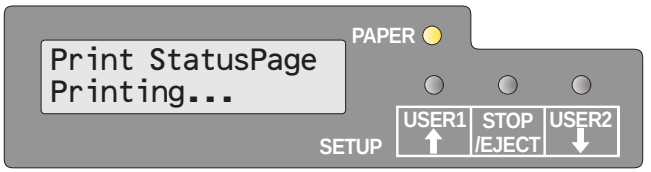


Power the printer off.

Press and hold the USER2 key while switching on the printer.



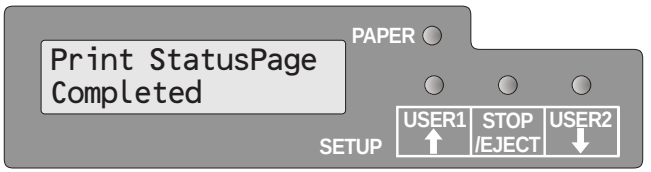
The LCD displays **Print StatusPage Load Paper**. Release the USER2 key.



Insert the paper in the printer. The LCD displays **Print StatusPage Printing...** and the printout of the status page is carried out.

The paper will be ejected once printing is complete.

While printing, you can use the STOP key to cancel the printing. If STOP key is pressed, printing stops and paper will be ejected.



When the test printout is aborted or completed, LCD will display **Print StatusPage Completed**.

The Print setting mode will be ended automatically and a Power ON reset will be performed.

Technical data

Printer specifications

Printing method	24-pin Dot matrix impact printer
Character pitch	10, 12, 15, 16.6, 17.1, 20, 24 characters/inch and proportional type (emulation-dependent)
Line spacing	Optional in microsteps n/60 inches n = 0 to 127 n/180 inches n = 0 to 255 n/360 inches n = 0 to 255
Print width	94 characters/line at 10 cpi 112 characters/line at 12 cpi 141 characters/line at 15 cpi
Print speed	LQ: 133 cps; DQ: 400 cps
Interface	serial (RS232C), parallel (compatible Mode, ECP), USB 2.0 (Full speed)
Nominal voltage	120V ± 10% (USA) or 230V ± 10% (Europe)
Line frequency	50/60Hz ± 3%
Network form	For use in power distribution systems with neutral and protective earth conductors (TN)
Rated current intake	Operation (maximum): US: 1.30 A; EU: 0.59 A Standby US: 0.11 A; EU: 0.072 A
Apparent power consumption	Operation (maximum): US: 89.7 VA; EU: 93.6 VA Standby US: 8.8 VA; EU: 11.4 VA
Sound output level L_{WAd}	7.1 dB in operation
Sound pressure level $_{LpAm}$	55 dB in operation
Dimensions	Height: 168 mm, Width: 378 mm, Depth: 280 mm
Weight	Standard = 9,10 kg, MSR-H = 9,95 kg
Approvals	DIN EN 60 950 / VDE 0805, TUV (EN 60950) / Certified CE Mark, UL 60950 3rd Edition / C-UL (CSA C22.2 No 60950-00) new reversion, IEC 60950-1, EN 55022 :1998 (Class B), EN 55024 :1998, FCC PT 15B : 2000 (Class B), EN61000-3-2 :2000, EN61000-3-3 :1995, Energy Star

For more information on printer specifications as well as interface specifications, refer to the User guide on the Online CD-ROM.

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Paper specifications

Only use paper that corresponds to the paper specifications and test new sorts of paper before use.

Paper specifications for passbooks	Paper width open book	105 to 235 mm (Horizontal passbook) 105 to 235 mm (Vertical passbook)
	Paper length open book	140 to 210 mm (Horizontal passbook) 125 to 210 mm (Vertical passbook)
	Passbook thickness	2.0 mm Max. (One cover + inner page)
	Thickness difference	1.4 mm Max.
	Paper weight	75 to 120 g/m^2
	Book condition	Recommend to be flattened carefully before insertion.
Paper specifications for single and multi-copy sheets	Paper width	70 to 240 mm
	Paper length	70 to 500 mm
	Paper weight	Single sheet: 60 to 160 g/m^2 Multi sheet: 80 to 260 g/m2
	Paper thickness	Single sheet: 0.08 to 0.5 mm Multi sheet: 0.08 to 0.5 mm
	Number of copies	Original + 4 copies (copy mode)
	Recycled paper is permitted on principle.	

For more information on general paper specifications, refer to the User guide on the Online CD-ROM.

Consumables and accessories

Only use ribbon cassettes from the manufacturer as products from other manufacturers may damage the print head or the ribbon drive.

Consumables	Order no.
Fabric ribbon in recyclable cassettes, color: black	043393

Only use print heads that are approved to prevent damage to your printer.

Accessories	Order no.
Print head 24 needles	400805
Serial interface cable 5m, 9-pin Sub-D female	043018

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