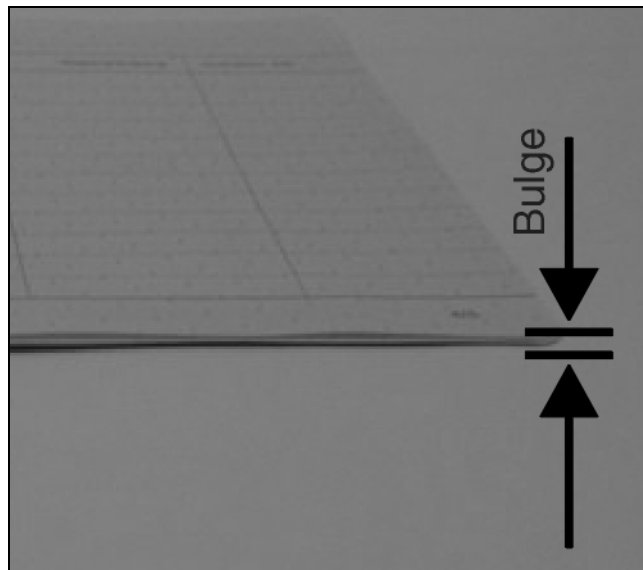




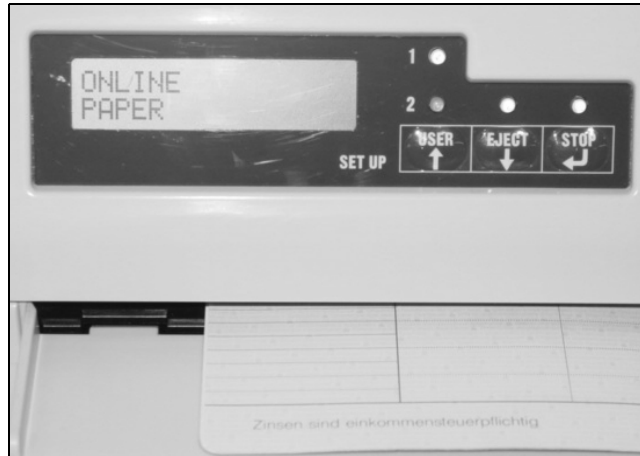
The bulge of the opened passbook should be as flat as possible to avoid malfunctions when the passbook is drawn into the printer.



Place the passbook on the right-hand side of the document support with the page to be printed facing up. Press the fold down while you push the passbook into the document chute towards the stop. Keep pushing it in until it is automatically pulled into the correct print position.



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.



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.

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When the passbook is printed, it is automatically transported out of the printer and released for removal.

If the passbook will not be transported automatically out of the printer you can eject it by pressing the EJECT key.

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

Service and Maintenance

► Replacing the ribbon cassette

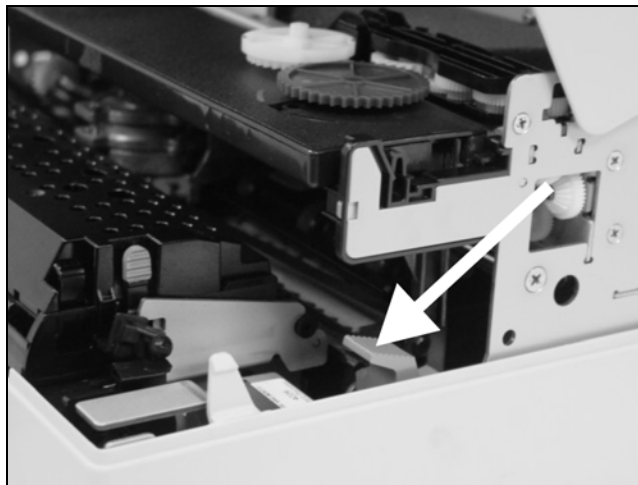
Make sure that the printer is switched off before replacing the ribbon cassette.



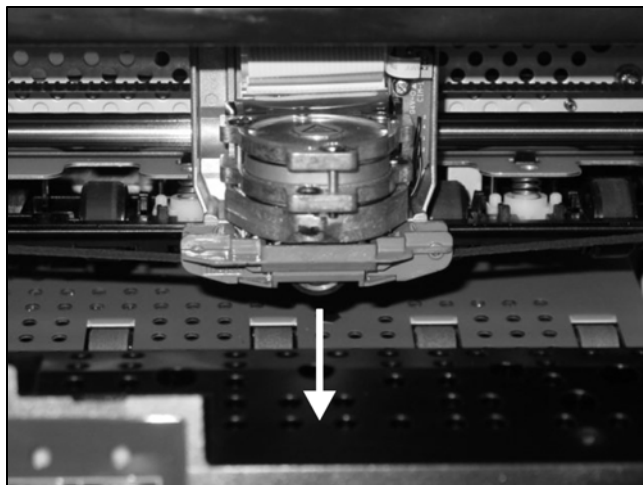
The print head may be hot if the printer has been printing for a long time. Wait until it cools down and you are no longer in danger of being burnt.



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.

ENGLISH



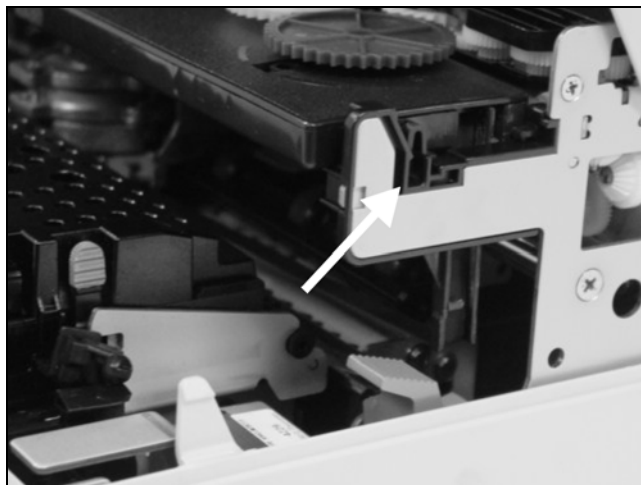
Raise the front end of the ribbon cassette on both sides. Take the ribbon cassette out of the printer.



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.

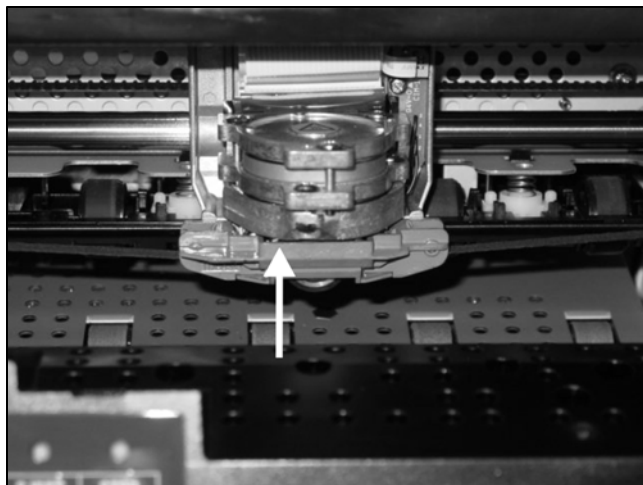
Insert the new ribbon cassette by hooking it into the rear slots of its mountings first.



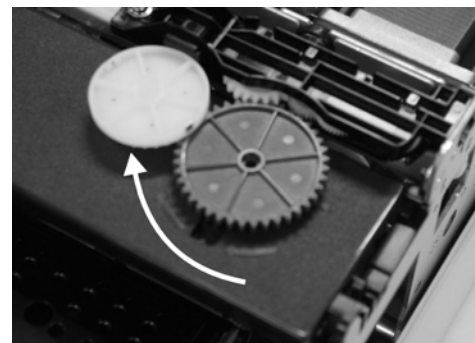
Push the front of the cassette into its mounting so that it clicks into position.



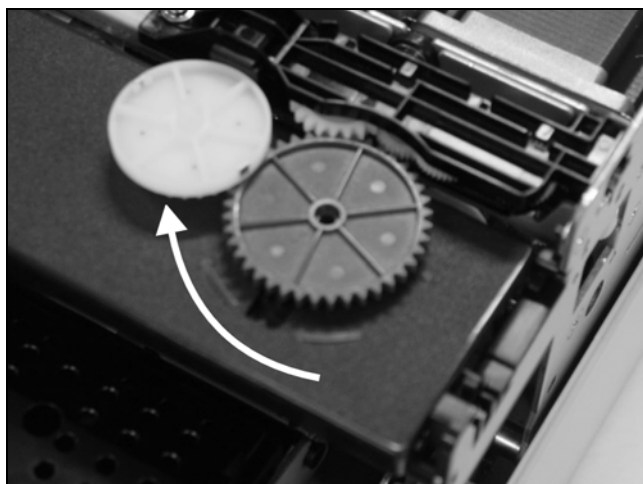
Please do not press the center of the ribbon cassette as this will deform the ribbon cassette and will cause operation problem.



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.

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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.

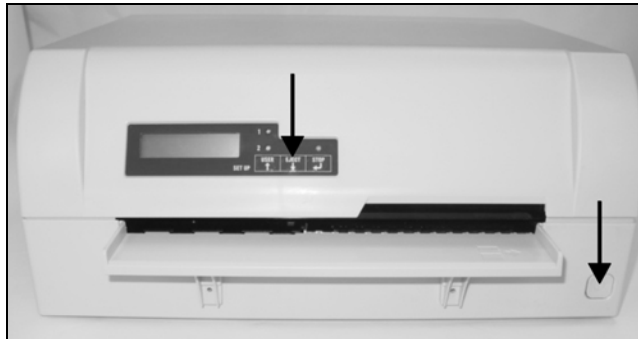
Close the cover. The printer is now ready to operate and to be switched on again.



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").

► 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 EJECT key while switching on the printer.

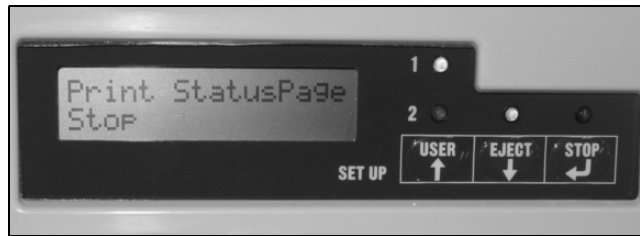


The LCD displays **Print StatusPage Load Paper**. Release the EJECT key.



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 pause the printing and LCD will display **Print StatusPage Stop**. You can resume the printing by pressing the STOP key again.

If EJECT key is pressed in the Pause state, paper will be ejected and a reset will be performed.



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; 17; 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%, 230V ± 10%
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
True output	Operation (maximum): US: 70.0 W; EU: 73.0 W Standby US: 6.9 W; EU: 8.9 W
Sound output level LWAd	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

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

► 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 pass-book) 105 to 235 mm (Vertical pass-book)
	Paper length Open Book	140 to 210 mm (Horizontal pass-book) 125 to 210 mm (Vertical pass-book)
	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/m ²
	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.	
Paper specification for cheques for the magnetic ink reader	The magnetic ink reader (MICR) processes cheques that have a printing zone with magnetizable ink.	
	Document width	76 mm to 102 mm
	Document length	152 mm to 210 mm



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

► Accessories

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

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

Accessory	Order no.
Fabric ribbon in recyclable cassettes, color: black	043 393
Print head 24 needles	400 805

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