Important Information


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


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


Hinweis: Die Konformität kann beeinflusst werden durch:
- Benutzung von nicht spezifizierten Schnittstellenkabeln
- Nichtbeachtung wichtiger Hinweise der Bedienungsanleitung
- Ersetzen von Bauteilen, die nicht vom Hersteller für dieses Gerät freigegeben wurden
- Eingriffe durch Unbefugte


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

Questo apparecchio soddisfa le richieste delle norme europee rispettando la direttiva del consiglio del 3 Maggio 1989 (89/336/CEE) relativa alla compatibilità elettromagnetica e la direttiva del 19 Febbraio 1973 (73/23/CEE) in materia di materiale a bassa tensione. La conformità alle direttive sopra citate è contrassegnata con il simbolo CE applicato sull'apparecchio.

Nota: La conformità può essere influenzata tramite:
- Utilizzo di cavi interfaccia non specificati
- Inosservanza di importanti indicazioni delle istruzioni per l'uso
- Sostituzione di componenti per i quali non è stato dato il benestare dal produttore per questo apparecchio
- Interventi tramite persone non autorizzate

Este equipo corresponde a lo exigido en las normas europeas a base del cumplimiento de la directriz del Consejo del 3 de mayo de 1989 (89/336/CEE) en lo que se refiere a la compatibilidad electromagnética así como de la directriz del 19 de febrero de 1973 (73/23/CEE) relativa a la producción de electricidad a pequeña tensión. La conformidad a estas directrices se indica con la marca CE en el aparato.

Indicación: La conformidad puede estar influída por:
- la utilización de cables de interface no especificados
- la inobservancia de indicaciones importantes contenidas en el manual de servicio
- la sustitución por componentes, que no han sido homologados por el fabricante para el equipo en cuestión
- intervenciones de personas no autorizadas

WARNING

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.

WARNING

Das Entfernen oder Öffnen von Abdeckungen und Teilen darf nur durch geschultes Fachpersonal vorgenommen werden. Ausgenommen hiervon sind nur solche Abdeckungen und Teile, deren Entfernen bzw. Öffnen in der Bedienungsanleitung ausdrücklich gekennzeichnet und beschrieben sind.

ATTENTION

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 même s’ils sont accessibles par l’opérateur.

ATTENZIONE

Solo personale qualificato può accedere a parti che non siano esplicitamente descritte nelle Istruzioni per l’operatore come accessibili all’operatore.

ADVERTENCIA

Las cubiertas y piezas sólo deberán ser quitadas o abiertas por personal especializado. Se exceptúan de esta regla sólo las cubiertas y piezas cuya retirada y apertura estén indicadas y descritas expresamente en las Instrucciones de uso.

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

Das verwendete Papier ist aus chlorfrei gebleichten Rohstoffen hergestellt.

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

El papel utilizado ha sido fabricado con un proceso de blanqueo libre de cloro.

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

ATTENTION: This class B computing device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

ATTENZIONE: Questo apparecchio è conforme alle disposizioni del paragrafo 15 delle norme del FCC. La sua funzione è soggetta alle seguenti condizioni: (1) l'apparecchio non deve causare interferenze dannose; (2) l'apparecchio deve accettare qualsiasi interferenza che possa causare funzionamenti sgraditi.

ATTENTION: Este aparato es de la Clase B y cumple con el parágrafo 15 de las normas del FCC. El funcionamiento está sujeto a las siguientes dos condiciones: (1) este aparato no debe causar interferencias perjudiciales, y (2) este aparato debe aceptar cualquier interferencia que se reciba, incluyendo la que pueda causar funcionamientos no deseados.

ATTENZIONE: Questo apparatò è di Classe B ed è conforme alla parte 15 delle normative FCC. L'utilizzo è soggetto alle seguenti due condizioni: (1) l'apparato non deve causare interferenze dannose; (2) l'apparato deve accettare interruzioni che possano causare funzionamenti sgraditi.

ATTENTION: 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: 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 même s’ils sont accessibles par l’opérateur.

ATTENZIONE: Solo personale qualificato può accedere a parti che non siano esplicitamente descritte nelle Istruzioni per l’operatore come accessibili all’operatore.

ADVERTENCIA: Solo personal técnico y calificado puede abrir las cubiertas o retirar piezas que no sean explícitamente descritas y mostradas en el Manual de usuario como accesibles para el operador.
# Operator’s Manual

## QUICK START-UP

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**Quick start-up**
Introduction
This Operator’s Manual is intended as a quick introduction into working with the printer and is
to enable also unexperienced users to handle 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 informa-
tion is contained in the reference manual on the online CD-ROM which is included at the back
of this manual.

➤ Symbols used in this manual
Important information is highlighted in this manual by two symbols.

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

NOTE marks general or additional information about a specific topic

➤ Important safety instructions
Read the following instructions carefully before putting the printer into operation in order to
protect yourself from injury and avoid damage to the printer.

- Keep this Operator’s Manual always readily accessible.
- Place the printer on a stable surface so that it cannot fall down to the ground.
- Avoid exposing the printer to high temperature or direct sunlight.
- Keep all liquids away from the printer.
- Do not expose the printer to shock, impact or vibration.
- Never switch on the printer when it is not set to the correct voltage.

Never try to carry out maintenance and repair work yourself; always call a qualified service
technician.

When you want to disconnect the printer from the mains power supply, always pull out the
mains plug from the wall outlet.

You will find additional safety information at specific places in the text.

➤ Using the online documentation
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 File Manager (Windows 3.1) or Explorer (Win-
dows 95/Windows 98/Windows NT) and double click on the START.PDF file. Then follow the
instructions and menus on the screen.
If your CD-ROM should be defective or missing, please consult your dealer.
The online documentation is also available as a printed manual (for a small fee) and via the
internet.
Minimum hardware requirements: PC AT 486, 4 x CD-ROM, 15” monitor, mouse.

➤ Troubleshooting
The online documentation supplied on the CD-ROM contains detailed information on trouble-
shooting.
The printer at a glance

The following figures show the name of each printer part, and the table on the following page shows the functions of each part.
<table>
<thead>
<tr>
<th>Name</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation Panel</td>
<td>It indicates the printer status, and is used to change various settings.</td>
</tr>
<tr>
<td>Paper Tray</td>
<td>It is used as a paper support for cut sheet paper already printed when the option &quot;F-Eject&quot; is set to OFF in the Initial Setting.</td>
</tr>
<tr>
<td>Paper Extension Trays</td>
<td>They are used for extending of the Paper Tray.</td>
</tr>
<tr>
<td>Access Cover</td>
<td>When the Ink-ribbon Cartridge is to be replaced or paper jams are to be removed, this cover is detached to allow access to the related parts. It also serves to protect operators from the mechanical movements of the printer.</td>
</tr>
<tr>
<td>Paper Feed Knob</td>
<td>It is used to manually feed paper forward or backward.</td>
</tr>
<tr>
<td>Power Switch</td>
<td>It is used to turn ON or OFF the power of the printer.</td>
</tr>
<tr>
<td>Option Connector</td>
<td>It is used to connect an Auto Sheet Feeder (ASF) or the Optional 2nd Tractor.</td>
</tr>
<tr>
<td>Paper Type Selection Lever</td>
<td>It is used to select the appropriate type of paper to be used in the printer: Continuous Form Feed Paper (lower position)</td>
</tr>
<tr>
<td>Front Cover</td>
<td>It is opened when Continuous Form Feed Paper is to be set. This cover is detached when an Auto Sheet Feeder (ASF) or the Optional 2nd Tractor is to be attached.</td>
</tr>
<tr>
<td>Right Paper Guide</td>
<td>By aligning the right edge of the Cut Sheet Paper to this guide, an uneven feed can be prevented.</td>
</tr>
<tr>
<td>Cut Sheet Paper Insert Guide</td>
<td>It is opened for inserting Cut Sheet Paper and is used as a paper support.</td>
</tr>
<tr>
<td>Left Paper Guide</td>
<td>It is used to adjust the left margin of the Cut Sheet Paper.</td>
</tr>
<tr>
<td>Latch Lever</td>
<td>By pulling this lever to the front, the latch is released and the Access Cover can be opened.</td>
</tr>
<tr>
<td>Perforated Line Cutter</td>
<td>Continuous Form Feed Paper will be cut at this position. By pressing the Tear key after printing, paper feeds up to this position.</td>
</tr>
<tr>
<td>Paper Thickness Adjustment Lever</td>
<td>It is used to adjust the paper-pinching strength of the printer in accordance with the thickness of the paper to be used. As for the adjustment ranges, see Paper Thickness Adjustment, page 18.</td>
</tr>
<tr>
<td>Interface Connector</td>
<td>It is used to connect the I/O cable to the system unit.</td>
</tr>
<tr>
<td>Power Inlet</td>
<td>It connects to the power cord.</td>
</tr>
<tr>
<td>Rear Cover</td>
<td>It is used to reduce noise. It must be removed when the paper tray is in upright position.</td>
</tr>
</tbody>
</table>
Installation

➤ Unpacking the printer  Please open the printer package and check that all the following items are included.

If any item is missing or damaged, please contact the store where the product was purchased.
Remove the transport protection elements as described in the unpacking instructions.
The carton and the packing materials will be necessary for moving or transporting the printer. Please store them in a safe place.

➤ Positioning your printer  Place the printer on a stable, flat and non-slip surface in such a way that it cannot fall down.
Ensure easy access to the control panel and the paper feeders and leave sufficient space for the paper ejected.

If frequent forward and return feed movements will be performed with fanfold paper, you should position the printer as illustrated in the figure.
When choosing a suitable place for your printer, you should also observe the following:

Stop  Never place the printer near sources of easily inflammable gas or explosive substances.

□ Avoid exposing the printer to direct sunlight. If you cannot avoid placing the unit near a window, protect it from sunlight with a curtain.
□ Position the printer near the computer to which it will be connected. The distance must not exceed 2 m.
□ Ensure sufficient distance from radiators.
□ Ensure that the printer is not exposed to extreme variations in temperature or air humidity. Avoid exposure to dust.
Connecting the printer

Make sure that the unit is set to the correct voltage (i.e. 230 V for Europe, 120 V for the USA). Refer to the type plate beside the power inlet on the rear side of the printer. If this is not the case, contact your dealer.

Never switch on the printer when it is not set to the correct voltage since this could cause severe damage.

Connect the power cable to the printer’s power inlet as shown in the figure.

Make sure that the printer and the computer are switched off.

Connect the power cable plug to a wall outlet.

Connect the printer-end connector of the data cable to the female interface connector and secure it with the spring clips.

Connect the other end of the cable to the computer.

Switching the printer on and off

The power switch, which is used for switching the printer on and off, is located at the right side of the printer.
**Control panel**

You can control printer operation using the control panel and the keys.

The first line of the display informs you about whether the printer is in **Online** or in **Offline** mode and about the paper path selected (Trac.1 or Single).

➤ **Online mode**

When switching on the printer, it automatically selects Online mode. It can receive data from the computer only in this mode.

- Online
- Tear

1. Sets the printer to Offline mode.
2. Sets the printer to Setup mode.
3. **Tear** key: Activates the tear function when fanfold paper is loaded (see page 15). If **Load** is displayed above this key, no paper is loaded in the printer; press the key to feed paper to the printing position.

**Online Offlinen Trac.1**

➤ **Offline mode**

Step feeds, line feeds and form feeds can be performed via the control panel only in this mode (see page 15).

- Offline
- Park LF/FF

1. Sets the printer to Offline mode.
2. Sets the printer to Setup mode.
3. If no paper is loaded: **Load** key (see above). If paper is loaded:
   - Short keypress: Line feed (LF)
   - Long keypress: Form feed (FF)
4. Short keypress: Micro-step return
   - Long keypress: Constant paper feed return
5. Short keypress: Micro-step forward
   - Long keypress: Constant paper feed forward
6. Clears the paper path with paper loaded and activates paper path quick selection (see page 14).

**Offline Offlinen Tear Trac.1**

➤ **Setup mode**

1. Sets the printer to Setup mode. In this mode, the following settings are available:
2. Sets the font and the number of characters per inch (**Char** menu).
3. Paper path (**Paperway** menu)
4. Tear position and first printing line (**Adjust** menu)
5. Other menu settings (**Menu**)

Access to the other menu options is disabled by the manufacturer. For information on how to enable access to these options as well as about the options available, refer to the online documentation on the CD-ROM, chapter 1, Operation (Unlock the menu mode).
Installing the ribbon cassette

Remove any paper loaded into the printer.

*Before opening the cover, make sure that the printer is switched off.*

Set the Paper Thickness Adjustment Lever to the “8” position.

Pull the Latch Levers near the right and left ends on the Access Cover to the front, and detach the entire Access Cover.

Move the Print head to approximately the center.

*The Print Head may be hot. So please be careful not to touch the metal part of the Print Head.*
Align the part “A” on the left side of the Ink-ribbon Cartridge to the two hooks of the printer, push the cartridge all the way until it clicks. If there is resistance, push it while turning the Ribbon Feed Knob.

Detach the Ribbon Guide from the Ink-ribbon Cartridge.

Do not detach the shield that has been attached to the Ribbon Guide; it is necessary to protect the ribbon.

Put the Ribbon Guide between the Print Head and the Platen and push it all the way until it clicks.

When attaching the Ribbon Guide, be careful not to fold the ribbon. Also, pay attention to the shield so that it does not become damaged.

Turn the Ribbon Feed Knob in the direction indicated by the arrow to remove any slack in the ribbon.
When the Ink-ribbon Cartridge setting is complete, attach the Access Cover.
Set the Paper Thickness Adjustment Lever in accordance with the thickness of the paper to be used. Refer to page 18 (Setting the print head gap).

Loading paper

Only use paper which is suitable for this printer. For more information, refer to the online documentation on the CD-ROM, Appendix C (Specification).

➤ Cut Sheet paper

Cut Sheet Paper is to be inserted from the front of the printer. The post-print paper can be fed out from the rear or the front. Please refer to the online documentation on the CD-ROM, Chapter 1, Menu description table.

Turn the Power Switch of the printer ON ("|").
Adjust the Paper Thickness Lever according to the type of paper to be used. Refer to page 18 (Setting the print head gap).

Stand the Paper Tray up in the direction indicated by the arrow. While holding the Paper Tray, pull up the Paper Extension Trays.
Set the Paper Type Selection Lever to Cut Sheet Paper mode. Make sure that the printer is in Single Sheet mode. For how to select Single Sheet mode refer to page 14 (Paper path quick selection).

Determine the left margin by moving the Left Paper Guide left or right. (The “[A” mark indicates the standard print start position.)

Place a sheet of paper aligned to the Left Paper Guide, and adjust the Right Paper Guide to the right edge of the paper. Insert the paper between the Left and Right Paper Guides. The paper is automatically fed to the print start position and the printer is ready to print.

- **Important Note:**
  - The paper feed-out capacity is about 30 sheets in case 55Kg-paper (ream) is used and the post-print paper is set to feed out to the rear side. When the post-print paper is set to feed out to the front, the paper must be removed sheet by sheet.
Set the Paper Thickness Adjustment Lever according to the type of paper to be used. Refer to page 18 (Setting the print head gap).
Set the Paper Type Selection Lever to Continuous Form Feed Paper mode.
Open the Front Cover to its upright position until it snaps in. This prevents unexpected closing of the cover.

Stand the Left and Right Tractor Fixing Levers up (in the direction indicated by the arrow), and release the locks.

Open the Flaps of the Left and Right Tractors. Match the Left and Right Tractors to the paper width. Locate the Paper Plate in the center between the Left and Right Tractors.
With the printing side of the paper facing up, fit the feeding holes on the left edge of the paper over the Left Tractor pins and close the Paper Flap. Fit the feeding holes on the right edge of the paper over the Right Tractor pins, and close the Paper Flap.

To avoid paper jams, ensure that the same left and right feeding holes are used, and placed over tractor pins of the same level.

After the paper is set, adjust the left margin by moving the Tractors left or right. The “A” mark is the standard print start position.

Push down the Left Tractor Fixing Lever to lock the Left Tractor. Move the Right Tractor to remove any paper slack, and then push down the Fixing Lever to lock it in place.

If the paper slack cannot be removed by moving the Right Tractor alone, adjust the position of the Left Tractor. Be careful not to stretch the paper so much that it tears.

Switch on the printer. The active feeder (Trac.1) is displayed. Paper is automatically fed when the printer is in Online status and receives data from the computer. Press the Load key to load paper before printing.
Changing the paper type

You can change the paper type (the paper path) either using the paper path quick selection feature or via the Setup menu.

➤ Paper path quick selection

First cut the fed-out portion of a Continuous Form Feed Paper at the perforated line. To do this, proceed as follows.

Make sure that the printer is in Offline status; press the Online key, if necessary. Press the Park key.

If fanfold paper is in the printer, it is transported to the tear position. “Tear paper off” appears on the display. Press any key.

If a single sheet is loaded in the printer, it is ejected.

Select the desired paper path by pressing one of the 1 keys, in our example Single.

If you do not make a selection within 5 seconds, the printer exits the menu.

The printer returns to Offline mode.

The display toggles between…

and…

Set the Paper Type Selection Lever to Cut Sheet Paper mode (see page 11 Loading paper).

The display toggles between…

and…

Stand the Paper Tray up in the direction indicated by the arrow. While holding the Paper Tray, pull up the Paper Extension Trays.

Determine the left margin by moving the Left Paper Guide left or right.

Place a sheet of paper aligned to the Left Paper Guide, and adjust the Right Paper Guide to the right edge of the paper. Insert the paper between the Left and Right Paper Guides. The paper is automatically fed to the print start position (see page 11 Loading paper).
Press the **Online** key to make the printer ready for operation.

**Paper transport**

Loaded paper (fanfold paper/single sheets) can be transported in the printer in different ways.

Make sure that the printer is in Offline status; press the **Online** key, if necessary.

1. Short keypress: Line feed (LF) is initiated
   - Long keypress: Form feed (FF) is initiated
2. Short keypress: Paper is transported downwards step by step
   - Long keypress: Continuous transport down
3. Short keypress: Paper is transported upwards step by step
   - Long keypress: Continuous transport up

**Using**

➤ **Moving paper to the tear position**

Fanfold paper can be transported to the tear position by pressing the Tear key.

Make sure that the printer is in Online status.

Press the **Tear** key. The printer moves the perforation edge of the fanfold paper to the tear edge.

The display toggles between…

and…

Press the **Exit** key after having torn off the paper. The printer moves the paper back to the first printing position.
Settings (I)

**Setting the tear position**

If the tear position of the paper is not aligned with the tear edge of the printer, you can adjust it.

Press the **Setup** key. The printer changes to Setup mode.

Press the **Adjust** key.

Press the **Tear** key.

Press the `<` or `>` key to move the perforation to the appropriate position.

Confirm the setting by pressing the **Set** key. The printer returns to its initial status.

*The correction made (a maximum of approx. 2.5 cm [1"] in both directions) will be retained after printer power-off.*

**Setting the first printing line (TOF)**

You can use the TOF function to set the position of the topmost printing line individually for each paper source and each menu.

You should adjust the tear position (see above) before using the TOF function (when using fanfold paper).

Press the **Setup** key. The printer changes to Setup mode.
Press the Adjust key.

Press the TOF key.

The bottom edge of the currently valid first printing line A of the paper is transported to the tear edge B. The factory setting for the first printing position is 12/72".

Press the < or > key to move the first printing line to the appropriate position. You can set values from 0 to 220/72" for fanfold paper, from 0 to 72/72" for single sheets.

Confirm the setting by pressing the Set key. The printer returns to its initial status.

The setting made will be retained after printer power-off. For more detailed information, refer to the online documentation on the CD-ROM, chapter 3 (Mechanical adjustments to the printer).
Settings (II)

Setting the print head gap

The printer has been provided with a Paper Thickness Adjustment Lever for adjusting the print head gap.

To obtain optimum print quality, the gap between the Print Head and the Platen needs to be adjusted according to the thickness of the paper to be used.

The following table shows the adjustable range:

<table>
<thead>
<tr>
<th>Number of Copies/ Thickness of Paper</th>
<th>Ream (kg)</th>
<th>g/m²</th>
<th>Lever Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original only Thin</td>
<td>45–55</td>
<td>50–65</td>
<td>1</td>
</tr>
<tr>
<td>Normal</td>
<td>55–77</td>
<td>65–90</td>
<td>1–2</td>
</tr>
<tr>
<td>Thick</td>
<td>77–110</td>
<td>90–130</td>
<td>2</td>
</tr>
<tr>
<td>Original + 1</td>
<td>34/34</td>
<td>40/40</td>
<td>2–3</td>
</tr>
<tr>
<td>Original + 2</td>
<td>34/34/34</td>
<td>40/40/40</td>
<td>2–4</td>
</tr>
<tr>
<td>Original + 3</td>
<td>34/34/34/34</td>
<td>40/40/40/40</td>
<td>3–4</td>
</tr>
<tr>
<td>Original + 4</td>
<td>34/34/34/34</td>
<td>40/40/40/40</td>
<td>4–5</td>
</tr>
<tr>
<td>Original + 5</td>
<td>34/34/34/34/34</td>
<td>40/40/40/40/40</td>
<td>5–6</td>
</tr>
<tr>
<td>Postal Card</td>
<td>110</td>
<td>130</td>
<td>3</td>
</tr>
<tr>
<td>Reserved</td>
<td>—</td>
<td>—</td>
<td>7–8</td>
</tr>
</tbody>
</table>

1. “Ream” is a unit of paper thickness, indicating the weight in kg. of 1,000 cut sheets at 788 mm x 1091 mm.
2. When printing the original sheet only, Cut Sheet Paper of 45 kg and thicker or Continuous Form Feed Paper of 50 kg and thicker can be used.
3. When the Paper Thickness Adjustment Lever is set higher than appropriate, the printout will appear scratchy and the print head and ribbon lives will be shortened.
When fanfold paper was in use and you want to change over to single sheet mode, proceed as described below.

You do not need to remove the fanfold paper.

1. Cut the fed-out portion of the Continuous Form Feed Paper at the perforated line.
2. To do this, proceed as follows.
   - Press the **Setup** key. The printer changes to Setup mode.
   - Press the **Paperway** key. The printer changes to the paper path menu.
3. Press < or > to change to Single (sheet) operating mode.
4. The currently valid setting (Tractor 1) is marked by a “*”.
5. Confirm the setting by pressing the **Set** key.
   - The input is acknowledged by an acoustic signal and the fanfold paper is transported to the tear position. Cut the fed-out portion of the Continuous Form Feed Paper at the perforated line.
   - In the display appears…
6. Press any key.
   - The printer returns to its initial status and the fanfold paper is transported to the park position.
   - The display toggles between…
   - and…
Set the Paper Type Selection Lever to Cut Sheet Paper mode.

In the display appears…

Stand the Paper Tray up and pull up the Paper Extension Trays (see page 10). Place a sheet of paper aligned to the Left Paper Guide, and adjust the Right Paper Guide to the right edge of the paper. Insert the paper between the Left and Right Paper Guides. The paper is automatically fed to the print start position (see page 11).

Press the Online key to make the printer ready for operation.

➤ From single sheet to fanfold paper mode

When single sheets were in use and you want to change over to fanfold paper mode, proceed as described below.

Make sure that fanfold paper is loaded. Refer to page 12 (Loading Fanfold Paper) for details.

Pull down the Paper Extension Trays and fold the Paper tray down. Press the Setup key. The printer changes to Setup mode.

Press the Paperway key. The printer changes to the paper path menu.

Press < or > to change to Trac.1 (fanfold paper) mode.

The currently valid setting (Single) is marked by a “*”.
Confirm the setting by pressing the **Set** key. An acoustic signal acknowledges the input.

The display toggles between…and…

Shift the Paper Type Selection Lever to the position needed.
The printer is now ready for printing fanfold paper.
Press the **Online** key to make the printer ready for operation.

**Selecting a font**

You can use the **Font** key to select fonts in Setup mode.

Press the **Setup** key.
Press the **Char** key.

Press the **Font** key.

Press the **<** or **>** key to select the desired font.
Confirm your selection by pressing the **Set** key.

Press the **Setup** key. The printer returns to its initial status.
You can also press the **Online** key. The printer changes directly in Online mode.
The selection made will not be retained after printer power-off. For information on how to select a font permanently, refer to online documentation on the CD-ROM, chapter 1 (Menu description table).

Setting the character pitch

You can use the CPI key to set the character pitch in Setup mode.

1. Press the Setup key.
2. Press the Char key.
3. Press the CPI key.
4. Press the < or > key to select the desired pitch.
5. Confirm your selection by pressing the Set key.
6. Press the Setup key. The printer returns to its initial status.
7. You can also press the Online key. The printer changes directly in Online mode.

The selection made will not be retained after printer power-off. For information on how to select a font permanently, refer to online documentation on the CD-ROM, chapter 1 (Menu description table).
## Specifications

### Printer specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Printing method</strong></td>
<td>serial printing with 9-pin matrix print head</td>
</tr>
<tr>
<td><strong>Print width</strong></td>
<td>narrow printer 80 characters at 10 cpi</td>
</tr>
<tr>
<td></td>
<td>wide printer 136 characters at 10 cpi</td>
</tr>
<tr>
<td><strong>Print speed (bidirectional)</strong></td>
<td>LN-Draft 413 cps at 10 cpi</td>
</tr>
<tr>
<td></td>
<td>Draft 310 cps at 10 cpi</td>
</tr>
<tr>
<td></td>
<td>NLQ 77 cps at 10 cpi</td>
</tr>
<tr>
<td><strong>Characteristic densities</strong></td>
<td>5, 6, 7.5, 8.6, 10, 12, 15, 17.1, 20 cpi (HS-Draft: 10, 12 cpi only)</td>
</tr>
<tr>
<td><strong>Graphics print density</strong></td>
<td>horizontal 240 dpi / vertical 144 dpi</td>
</tr>
<tr>
<td><strong>Ribbon life</strong></td>
<td>4 million char.</td>
</tr>
<tr>
<td><strong>Acoustic noise level</strong></td>
<td>ca. 55 dB (A)</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>narrow printer 485 x 206 x 272 mm (W x H x D)</td>
</tr>
<tr>
<td></td>
<td>wide printer 625 x 206 x 272 mm (W x H x D)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>narrow printer 9 kg / wide printer 11 kg</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>USA/Canada AC 120 V 10% / 60 Hz 3%</td>
</tr>
<tr>
<td></td>
<td>Europe AC 230 V 10% / 50 Hz 3%</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>at 100% throughput &lt; 60 VA</td>
</tr>
<tr>
<td></td>
<td>in the Ready state &lt; 10 VA</td>
</tr>
<tr>
<td><strong>Operating environment</strong></td>
<td>Temperature 10°C to 40°C</td>
</tr>
<tr>
<td></td>
<td>Humidity 20% to 80%</td>
</tr>
<tr>
<td><strong>Print head specifications</strong></td>
<td>Number of pins 9</td>
</tr>
<tr>
<td></td>
<td>Pin diameters 0.3 mm</td>
</tr>
<tr>
<td></td>
<td>Number of copies 1 original + 5 copies</td>
</tr>
<tr>
<td><strong>Interface buffer</strong></td>
<td>max. 64 kB</td>
</tr>
<tr>
<td><strong>Regulations</strong></td>
<td>UL 1950, VDE-GS, CE, FCC Class B, UL/Ulc</td>
</tr>
</tbody>
</table>

### Paper specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cut sheets</strong></td>
<td>Paper weight 60 – 120 g/m²</td>
</tr>
<tr>
<td></td>
<td>Width 76 – 220 mm / wide printer: 76 – 420 mm</td>
</tr>
<tr>
<td></td>
<td>Length 76 – 559 mm</td>
</tr>
<tr>
<td><strong>Fanfold paper</strong></td>
<td>Paper weight 60 – 120 g/m²</td>
</tr>
<tr>
<td></td>
<td>Width 76 – 254 mm / wide printer: 76 – 420 mm</td>
</tr>
<tr>
<td></td>
<td>Length 76 – 559 mm</td>
</tr>
<tr>
<td><strong>Simple forms</strong></td>
<td>Paper weight 60 – 120 g/m²</td>
</tr>
<tr>
<td></td>
<td>Width 76 – 254 mm / wide printer: 76 – 420 mm</td>
</tr>
<tr>
<td></td>
<td>Length 76 – 559 mm</td>
</tr>
<tr>
<td><strong>Sets of forms</strong></td>
<td>Paper weight original: 45 – 65 g/m² / copy: 45 – 56 g/m² / last page: 45 – 65 g/m²</td>
</tr>
<tr>
<td></td>
<td>see simple forms</td>
</tr>
<tr>
<td></td>
<td>max. 0.5 mm</td>
</tr>
<tr>
<td></td>
<td>Number of copies 1 original + 3 copies</td>
</tr>
<tr>
<td></td>
<td>max. 64 kB</td>
</tr>
<tr>
<td><strong>Regulations</strong></td>
<td>UL 1950, VDE-GS, CE, FCC Class B, UL/Ulc</td>
</tr>
</tbody>
</table>
For more information on printer specifications and paper specifications, refer to the online documentation on the CD-ROM.

**Accessories**

**Ribbon cassettes**

Narrow printer: Part No. 044 829
Wide printer: Part No. 044 830

**Demo page**

The demo page contains information on the firmware version, serial number, needle check, fonts, font attributes and bar codes/LCP.

Hold down button 4 while switching on the printer to print the demo page.

To terminate printing, switch off the printer.
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