

USER MANUAL

Cutter 2000

Option



Using the Documentation

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CAUTION!

Read the user manual before operating the device for the first time.
The user manual is an essential part of the device it belongs to.
The user manual is to be stored at the machine operating location and made accessible to the operator.

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Documentation structure

Datapool, documentation object

The overall documentation is a part of the datapool, which is provided for the printer user and the service personnel on CD or other electronic media.

Datapool

This datapool includes:

- this printer documentation,
- the printer drivers

Printer doc

Here the overall documentation (abbr.: documentation) is to be understood as the printer documentation.

The printer documentation contains all the information which is required for using the product. Using the product means preparing it for use, putting it into operation, setting it up, the operation, servicing and maintenance, fault searching and the service for optional extensions, settings and repairs.

Doc object

The documentation object includes

- various printer families (printer series), consisting of different printer models (devices),
- standard and optional additions for the printer (options) and
- the printer language Easy Plug.

Documentation concept

The wide range of products which must be documented and the demand for documentation distribution and use, both in electronic form (CD/Internet, PC) as well as in paper form, have resulted in the following documentation concept:

Structure

The documentation consists of

- topic sections (generally comparable to chapters),
- manuals (handbooks, instructions),
- link pages and the
- start page (start page of the CD documentation).



Subject section

Thematically-related subject contents are described in each topic section. A topic section is the smallest unit of information with its own

- page numbering,
- header bar,
- list of contents,
- index,
- device classification and
- its own revision status.

Subject sections form the basis of the manual. A topic section can be simultaneously assigned to several manuals. Subject sections are in one, in some cases two, languages.

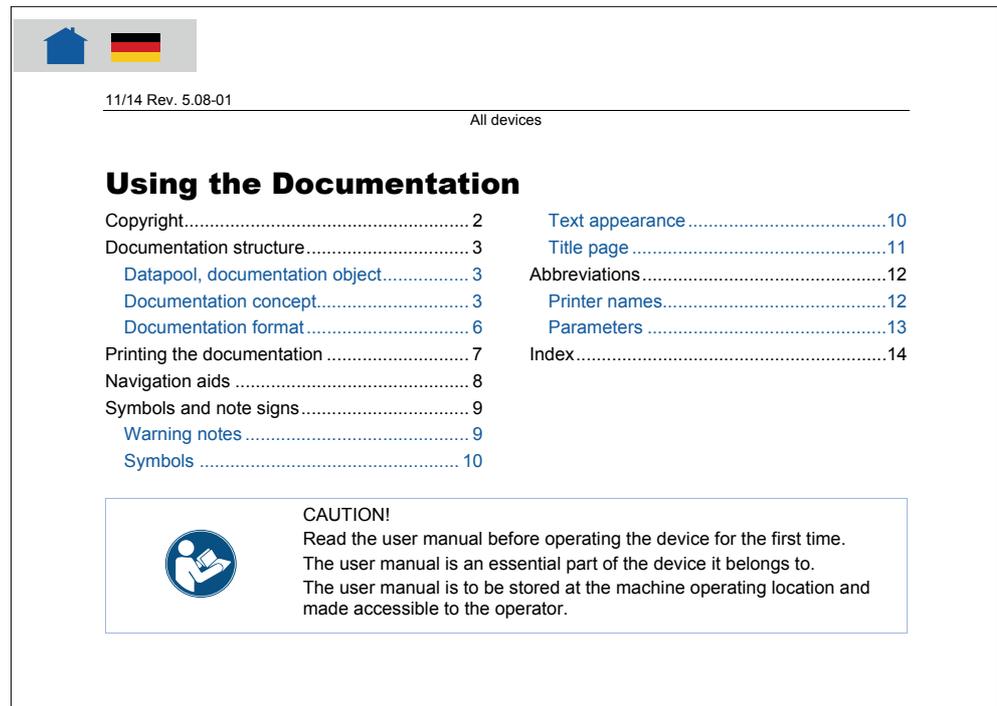


Fig. 1 Example: First page of topic section "Using the Documentation"

Manual

A manual is composed of different topic sections. The following features characterize a manual:

- Title page with a list of contents, device classification and revision status (see Fig. 1).
- The list of contents contains the designations of the topic sections and also serves as a link distributor to these topic sections.
- The contents of a manual refer to a certain device, a device family or an option (documentation object).
- A manual is assigned to a certain language and only contains topic sections in this language.
- A manual is assigned to a certain user group. There are *Service Manuals* (mainly for the Service), *User Manuals* (mainly for the user) and just *Manuals* (for Service and user).

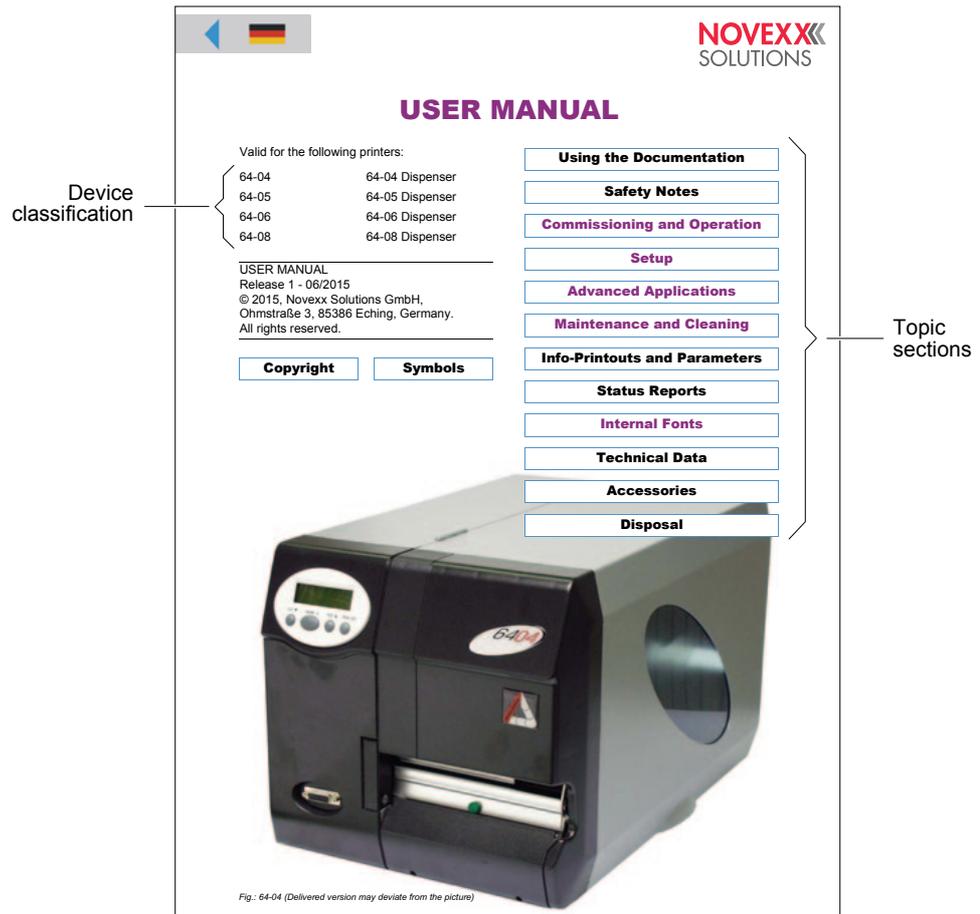


Fig. 1 Each Manual title page provides a list of topic section in its right half.

To a certain extent manuals are only virtual, as the same topic section can be simultaneously assigned to different manuals (the topic section physically only exists once).

Subject sections which are only assigned to a single manual are colour-coded on the title page of the manual (in the same colour as the title of the manual, see "Symbols and note signs").

Link page

A link page is only an organisational component of the datapool available on electronic media. The following features characterize a link page:

- Assignment to a single language
- Function as a link distributor to the individual manuals (access to the overall documentation of the corresponding language)
- Function as a link distributor to other components of the datapool provided on the electronic medium (e. g. printer drivers and print and design software in the corresponding language)

Start page

The start page is also only an organisational component and is displayed when the CD starts, or on the Internet on the link to the printer datapool. The following features characterize a start page:

- Assignment is irrespective of the language or multilingual
- Function for the language selection made by the user
- Function as a link distributor to the link page with the selected language.

This gives the following documentation hierarchy:

Hierarchy

1. Start page (selection of the language)
2. Link page (selection of the manual)
3. Manual title page (selection of the topic section)
4. Subject section contents page (selection of the subtheme)

In most cases, the subtheme selected in step 4 equates to the information being searched for. For instance, the selection of the status number in the list of contents of the topic section leads straight to the description of this status number.

Documentation format

All elements of the printer overall documentation are in Adobe PDF (Portable Document Format). This has the following practical advantages:

Printing

- The documents can be printed in the required quality irrespective of the printer type and the fonts which are used.

Memory

- Less memory is required for saving the document due to differentiated data compression (faster loading, faster printing).

Internet

- Internet compatibility due to the relatively small amount of data.

License

- Simple distribution without the need to purchase licenses (Adobe Reader licenses are provided free of charge by Adobe worldwide and in many languages).

Platform

- Can run on different platforms (Windows/Macintosh/Linux)

Links

- Links within and between Acrobat documents, as well as links to documents in other formats and executable files.
- Other Acrobat Reader functions such as page returns, bookmarks, thumbnails, document-overlapping search function with an automated index, etc.
- More detailed information about the Acrobat Reader is contained in the Acrobat online help.

Printing the documentation

In order to make the documentation readable without a PC, the documents can be printed in A4 as well as in Letter format. For printing, the Acrobat Reader uses the print capabilities of the platform it is run on. The layout of the printed documents equals the appearance on the monitor screen.

Mind the following hints before you start to print:

When printing several manuals, it is not necessary to print out all topic sections starting with the title page.

- Only print out the topic sections marked in black once. These topic sections are referenced from different Manuals. Physically, they consist of the same data.
- Always print out all subjects marked in purple. Reference is only made once in the respective manual to each purple topic section.

When printing all of only one manual, it is necessary to print out all topic sections in this manual starting from the title page.

Example

- In order to print a *user manual*, proceed as follows:
 1. Print the title page.
 2. Click the topic sections on the right half of the title page one after the other. Print each topic section completely.
- In order to print the *service manual* additionally, switch to the title page of the service manual and only click the topic sections written in purple. Print those topic sections. The remaining black topic sections are already printed with the user manual.

Text integration

It is also possible to integrate documentation text (and images) in other documents using the Windows clipboard. As a result, e. g. order information (spare part designations and part numbers) can be used simply and with no additional effort.

- ▶ Pay attention to copyright restrictions. Information on this subject can be found under "Copyright".

Navigation aids

Info search

The following options are available for quickly searching for information in the paper documentation:

- The title page of each manual with a list of contents of the topic section
- The detailed list of contents with page numbers on the first page of each topic section
- The own page numbering of each topic section
- The index at the end of each topic section.

Links

In the top left corner of each title page and on the first page of each topic section, you find small graphics, which ease the change back to higher levels of the documentation (see Tab. 1).

Symbol	Meaning
	<i>Triangle</i> : Link to the last opened page.
	<i>Triangle</i> : Link to the last opened page. <i>House</i> : Link to the menu page. <i>Flag</i> : Link to the german page of identical content. On the corresponding german page, a british flag symbolizes the cross-reference to the british page.
	<i>Houses with flags</i> : Links to the menu pages in different languages. Is used in bilingual topic sections (e.g. spare parts lists).

Tab. 1 Navigation aids can be found on the first pages of the PDF-documents.

Symbols and note signs

Warning notes

Warning notes warn of a possibly dangerous situation. Personal injury, material damage or data loss are possible, if care is not taken.

Depending on the dimension of possible damages, the warning notes look different:

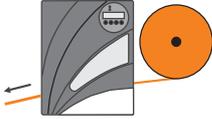
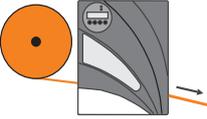
- Warning note, which warns of a danger that can lead to injuries, if the dangerous situation is not avoided. Appearance: Exclamation mark in a triangle, signal word "WARNING", blue frame, blue shaded text field (see below).

	<p>WARNING! Description of the <i>danger source</i>. Description of <i>possible personal injury</i>. → Measure to avoid personal injury. → Further measure to avoid personal injury. → ...</p>
---	---

- Warning note, which warns of a danger that can lead to material damage or data loss, if the dangerous situation is not avoided. Appearance: Exclamation mark in a triangle, signal word "CAUTION", blue frame (see below)..

	<p>CAUTION! Description of the <i>danger source</i>. Description of <i>possible material damage</i>. → Measure to avoid material damage. → ...</p>
---	---

Symbols

	Warning of the risk of injury due to moving or rapidly rotating parts! Long hair, loose jewellery, long sleeves, etc. are not admissible when operating the machine. Wear sufficient personal protection gear.
	Tools required for the described service action.
	Marks additional information, which has not necessarily to be read to operate the machine, but which improves the understanding for the described function.
	Lefthand version (LH version): Symbol marking a text section which refers to the LH version of a device. (Only important for DPM, PEM and ALX 92x)
	Righthand version (RH version): Symbol marking a text section which refers to the RH version of a device. (Only important for DPM, PEM and ALX 92x)
	CE label: Documents the EC conformity of the device.
	Recycling: Notes about disposal. Pay attention to environmental protection!
	Arrow at the right bottom corner: paragraph is continued on the following page. 

Text appearance

	<ol style="list-style-type: none"> 1. (Numbered) Action instructions, introductory text: 2. follow the sequence!
	Focus arrow: action instructions, sequence not stipulated.
	Note arrow: special note. Pay attention!
	Focus point: feature, extra paragraph.
	Focus circle: Reference to another text position or info source.
	Exists. Completed. Yes. Applies.
Blue text with link symbol 	Link to other positions in the documentation (click). Exception: In lists of contents, the black text is also linked.

Title page

Link

Black text in the blue frame:
link to topic sections which occur several times in different manuals (click).

Link

Purple text in the blue frame:
link to a topic section which only occurs once and belongs specifically to the manual (click).

Link

Blue text in the blue frame:
A click on the text starts an executable program, e.g. the printer driver unpacking program starting from the "Manual printer driver" title page.

Abbreviations

Printer names

If there is not enough space to call all printers by their full names, the abbreviated spellings listed in Tab. 2 are used.

Spelling	Meaning	Example, note
64-04/05	64-04, 64-05	
64bit series	Printer/Print-Dispenser with 64bit electronics	64-xx, DPM, PEM, ALX 92x
64-xx	Tabletop printer with 64bit electronics	64-04, 64-05, 64-06, 64-08
ALX 92x	Print-Dispenser of the ALX 92x series	ALX 924, ALX 925, ALX 926

Tab. 2 Abbreviated spelling of printers.

Parameters

The notation of parameters is done as follows:

MENU > Parameter name

Example:

INTERF. PARAM. > Interface

(Parameter "Interface" in the menu "INTERF. PARAM.")

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Note about printer names

The protective measures described in the following count for all printers (e. g. 64-xx), print-and-apply machines (e. g. ALX 92x) and print-and-apply modules (DPM) distributed by Novexx Solutions.

▣ In this document, all above mentioned printer types are referred to as „machine“.

Information and qualifications



Follow the instructions

Safe and efficient operation of the printer can only be guaranteed if you observe all necessary information.

Product liability and warranty can only be claimed, if the printer was operated according to the notes and instructions in the user manual.

→ Before operating the device, read the operating instructions and all other notes carefully.

→ Observe the additional safety and warning notes on the device.

Information must be made available

This operating manual...

→ is to be stored at the printer operating location and made accessible to the operator.

→ is to be maintained in legible condition.

→ If the machine is sold, it must be made available to the new owner

→ Safety and warning notices attached to the machine must be kept clean and legible. Missing or damaged warning labels and plates are to be replaced.

Ensure necessary qualifications

Operation

→ Only allow the printer to be operated, adjusted and serviced by instructed and authorised personnel.

Instruction of the operating personnel must ensure

- that operating personnel can use the machine independently and without posing a danger.
- that operating personnel can remedy minor operational malfunctions themselves.

→ Train at least 2 persons to operate the machine.

→ Make label materials for test purposes available in sufficient quantities.

→ Moreover, personnel are to be regularly instructed about work safety and environmental protection issues.

→ The responsibilities for operation, adjustment and servicing of the machine must be clearly defined and consistently maintained.

→ Only make adjustments to the machine in accordance with this manual and with all due care.

Service

Special servicing, fault searching and fault correction are to be carried out by the manufacturer, his appointees or other authorised service agents. This also includes the optional installation and refitting of components.

Machine operating safety



Conditions for safe use

- Only use the machine in enclosed areas with environmental conditions matching the values given in the technical specifications.
- Only operate the machine on a plane, solid support.
- Only trained and authorized personnel should operate the printer!
- During operation, the printhead can become hot! Care should be taken when touching the printhead!
- Do not make any modifications or any additional casing for the machine!
- Do not allow any liquids to enter into the machine!
- Repairs to the machine may only be performed by authorized specialists who are aware of the risks involved!
- Make sure that the power supply socket for the machine is readily accessible!
- Lay the power supply cable, data cables and compressed air hoses (if applicable) in a way that nobody can stumble over it.
- In case of emergency, switch off the machine and pull off the power supply cable!
- Only use original accessories!



Protect against injuries that can result from electrical current

- Only put the machine into operation when installed in a correctly installed housing.
- Only operate the machine using the system voltage indicated on the nameplate!
- Only connect the machine to a grounded power socket fitted to authorized standards!
- Only connect devices to the interfaces at the machine that fulfil SELV (safety extra-low voltage) circuit requirements according to EN 60950!



Protect against injuries that can result from mechanical actions

- Only operate the printer when the cover is closed!
- Don't wear loose long hair (if necessary, wear a hairnet).
- Keep loose jewellery, long sleeves, etc. away from rotating parts or the printer.
- Wear sufficient personal protective equipment.

Applicator operation

The following printers can be operated with an applicator:

- 64-xx
- ALX 92x
- DPM

Operation with an applicator causes additional hazards, which must be safeguarded by the following additional protective measure:

- Only operate the printer, if it is equipped with an appropriate safeguarding device¹. This device must stop the printer, if it is opened.

1) Movable interlocking guard according to EN ISO 12100-1, 3.25.4



Connection / Setup

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Safety Notes



WARNING!

Danger of getting your fingers cut by the cutter blades!

- Cleaning of the cutter must be done very carefully.
- Don't touch the cutter during printing/cutting operation.
- Don't use the cutter as a handle to carry the printer.
- Switch off the printer and pull out the mains connector before any operation that requires touching the cutter (e.g. mounting, cleaning, inserting label material, ...).
- Don't use sharp edged objects to clean the cutter blades.

General Notes

Proper Usage

The cutter option (subsequently referred to as the "cutter") is a peripheral device for label printers of the type TTK, TTX 350, 64-xx, AP 5.4, AP 5.6 or AP 7.t. The cutter is designed for cutting label material after it has been printed.

Technical Specifications

Properties

The cutter blade cuts self-adhesive, cardboard and synthetic materials up to 240 g/m² and up to a material thickness of 0.9 mm – considering the following exceptions:



CAUTION! - Keep to the following rules in order not to damage or to soil the cutter blade.

- The 8" wide cutter must *not* be used for materials exceeding 160 g/m².
- Fiber strengthened materials (e.g. Tyvek) must *not* be cut.
- If using self-adhesive material, cut *between* the labels (backing paper). Otherwise, the adhesive will stick to the cutter blades and will have a negative effect on the cutting function.

Cut width

Cutters of varying widths are intended for use with printers of the 64-xx series to allow labels to be cut up to the maximum material width of the printer being used.

Double cut

With the double cut function, the operator can remove gaps from the label material where required. Here the cut gap can be set from 1 to 5 mm.

System requirements

Printre types

Cutters in the appropriate width can be operated with the following printers:

Printer	Cutter width
64-04 / TTK / TTX 350 / AP 5.4 / AP 7.t	4"
64-05	5"
64-06 / AP 5.6	6"
64-08	8"

[Tab. 1] The cutter width must match the printwidth of the printer.

Preparation for peripheral devices

For using the printers with a cutter, they must be especially equipped (Tab. 2). This so called peripherals preparation consists mainly of an additional output stage board for the motor of the peripheral device and of some additional connection cables.

Printer	Peripherals preparation
64-xx	optional
TTX 350	optional
TTK	standard
AP 5.4/5.6	standard with printer version „Peripheral“
AP 7.t	standard

[Tab. 2] Only the TTK is in any cases equipped with the peripheral preparation. For the other printer types this is an option.

Peripheral test

TTK/TTX 350:

→ Set parameter SYSP > PEPH to KNIF.

If the printer displays the status message ST68 after the ENTER key is pressed, the peripheral board is not installed. If ST68 does not appear or if a different status message is displayed, then the printer has been set up for peripheral devices.

64-xx / AP 5.4 / AP 5.6 / AP 7.t:

→ Make a service status printout: Call parameter PRINT INFO > Service Status.

64-xx and AP x.x printers are equipped with peripheral preparation if the topic "Peripheraldriver" can be found below the header "Peripheraldriver" on the printout.

Connecting the cutter



WARNING!

Danger of injury if the cutter is activated unintentionally!

→ Before beginning service work, switch off the printer and pull out the mains power supply plug.

The cutter [1] is secured to the printer by two screws and an adjustment plate. By moving the adjustment plate, the cutting line can be set parallel to the print image.



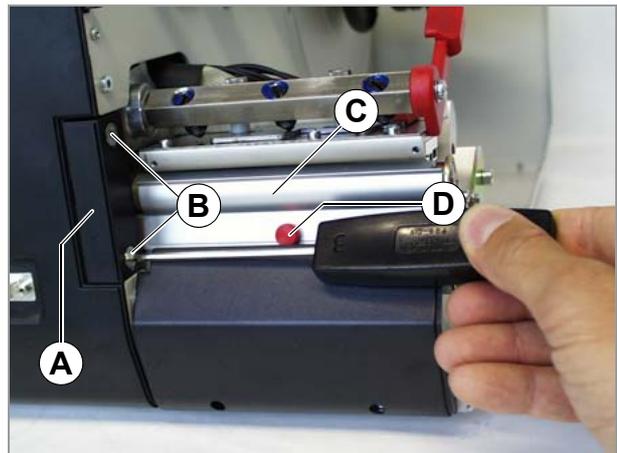
[1] Cutter 2000.

Tools

- Allan key 3 mm
- Socket wrench, size 8

Assembly / Disassembling

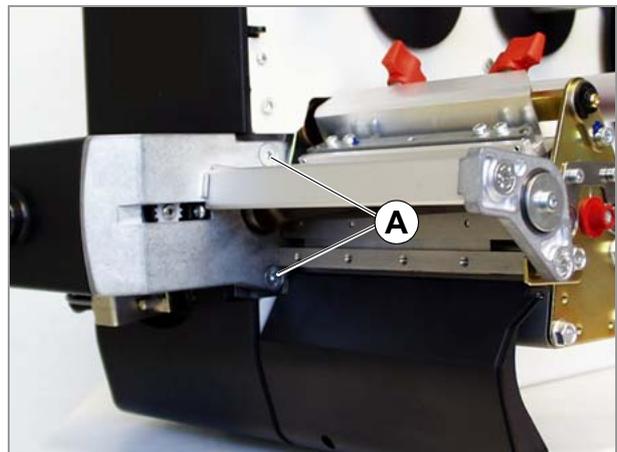
1. Remove the tear-off edge [2C] by unscrewing the thumb screw [2D].
2. Remove the cutter cover [2A] by unscrewing the two fastening screws [2B].



[2] Disassembling the cutter cover (A).

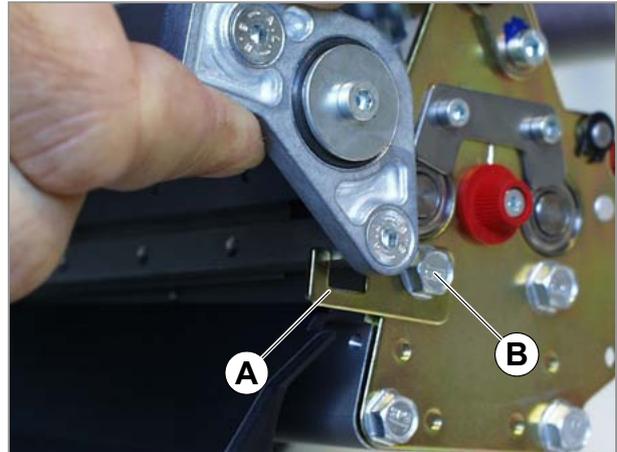
3. Screw on the cutter in place of the cutter cover. To do this use the fastening screws of the cutter cover [3A] (2x Allan key screws M 5x20). Initially just screw them in slightly.

Continued overleaf.



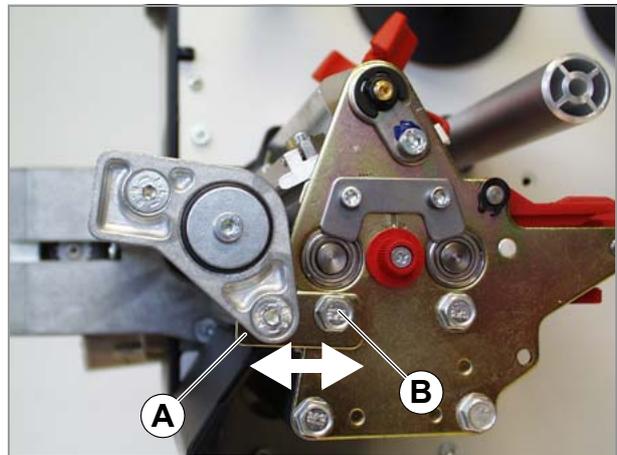
[3] Attaching the cutter to the printer.

4. Attach the adjustment plate [4A] by unscrewing the top left hexagonal screw [4B] on the print or draw unit, place the adjustment plate underneath, and then tighten the screw again - initially only lightly.
- ▮▮▮ The square axle of the cutter unit must rest in the square recess of the adjustment plate [4].
 - ▮▮▮ AP 5.4/5.6 only:
The adjustment plate differs from the 64-xx/TTX 350/TTX version. It is provided with every AP 5.4/5.6 printer (fixed on the printer bottom with adhesive tape).



[4] Attaching the adjustment plate (A).

5. If necessary, position the adjustment plate [4A] with the help of the hex screw [4B] so that the cut image and print image are lying parallel.
6. Tighten all three fastening screws.



[5] Positioning the adjustment plate (A).

7. Plug the knife motor cable into the socket on the front of the printer [6].



CAUTION! - Under no circumstances should the plug be attached or removed when the device is switched on, as otherwise the device electronics could be damaged.

Function check for AP 5.4 / AP 5.6 / AP 7.t

For testing purposes can be triggered a cut by calling parameter `SERVICE FUNCTIONS > Cutter test`. This way, the cutter function can be tested without changing the printer peripheral setting.



[6] The cutter connector (A) ready plugged in.

Activating the cutter

After installation, the cutter must still be activated by setting the corresponding parameters in the parameter menu.



WARNING!

Danger of cutting hands and fingers! Activating a non-existent option (peripheral device) can cause the device to malfunction.

- Never touch the knife blade with your fingers while operating the cutter/printer.
- Only activate options which are mounted and connected properly.

Activating the TTX 350 / TTK

→ Call parameter `SYSP > PEPH` and set it to `KNIF`.

The printer will now be reset. The cutter is rotated automatically to its correct starting position.

Activating the 64-xx / AP 5.4 / AP 5.6 / AP 7.t

→ Call parameter `SYSTEM PARAMETER > Periph. device` and set it to „Cutter“.

The printer will now be reset. The cutter is rotated automatically to its correct starting position.

Error message after activating the printer

If the starting position of the cutter blade can not be found, the following status message appears (depending on the printer type):

64-xx/AP 5.4/AP 5.6/
AP 7.t

Status	5005
	Knife fault

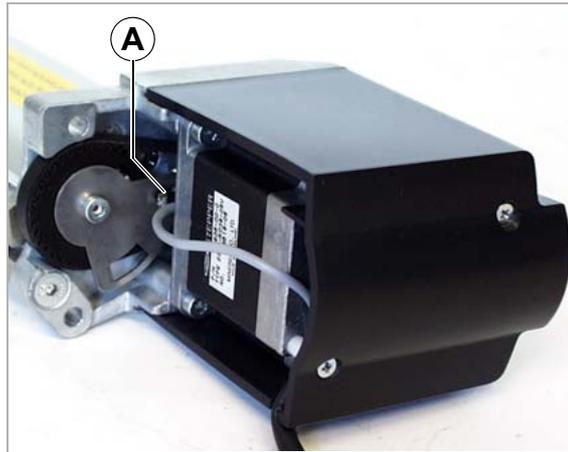
TTX 350/TTK

ST14

→ Press the Online button to acknowledge the message.

If this status message occurs repeatedly, the cutter light sensor may be dirty or defective.

→ Use compressed air to blow the dirt off the light sensor [7A]. To do so, unmount the cutter of the printer.



[7] Unmount the cutter to clean the light sensor (A).



→ Check, if the cutter cable is damaged. If so, replace the cable.

→ Adjust the oscillator disc.

A complete description of all parameters can be found in the user manual of the printer, topic section "Info Printouts and Parameters".

A list of all status reports can be found in the user manual of the printer, topic section "Status Reports".

Parameter settings

The following parameters govern the cutter function and may need to be adjusted:

TTX 350	TTK	64-xx	AP 7.t	AP 5.4/5.6	Meaning
PEPH	PEPH	Periph. device	Periph. device	Periph. device	Selection parameter for peripheral devices
CSPD	CSPD	Cut speed	Cut speed	--	Cut speed
CPOS	CPOS	Cut position	Cut position	Cut position	Cut position
CWID	CWID	Cut width	Cut width	--	Cut width
CDIS	CDIS	Double cut	Double cut	Double cut	Double cut function
CMOD	CMOD	Cut mode	Cut mode	Cut mode	Cut mode

[Tab. 3] Parameters which are important for the cutter function.

For more detailed information, refer to the user manual of the printer, topic section "Info Printouts and Parameters".

➡ After a print job has been downloaded, the programmed cut function is carried out automatically by the device.

Status reports

The following status reports may be displayed in conjunction with the cutter function:

TTX 350	TTK	64-xx / AP 5.4 / AP 5.6 / AP 7.t	Example, comment
ST14	ST14	5005 Knife fault	Cutter malfunction
ST68			No peripheral device preparation

[Tab. 4] Status messages caused by printer operation with cutter.

For more detailed information, see the chapter "Status Reports" in the printers user manual.

Triggering a cut

If the cutter is properly mounted and activated, a cut can be triggered the following ways:

- Press the Cut button, while the printer is in offline mode.
- Include a cut command in the print job, e.g. by setting the respective parameter in the Easy Plug #ER command.

Accessories

Stripper plate

If the applied label material is very thin and flexible, it may happen, that the label material is drawn upwards together with the ribbon, instead of being fed into the cutter.

The stripper plate avoids this effect.

Printer	Article no. stripper plate
64-04 ^a / TTX 350 / TTK / AP 5.4 Gen. 2 / AP 7.t	A0799
64-04 ^b / 05	A0798
64-06 / AP 5.6	A0800
64-08	A0801

a) Old 64-04 (light-gray housing)

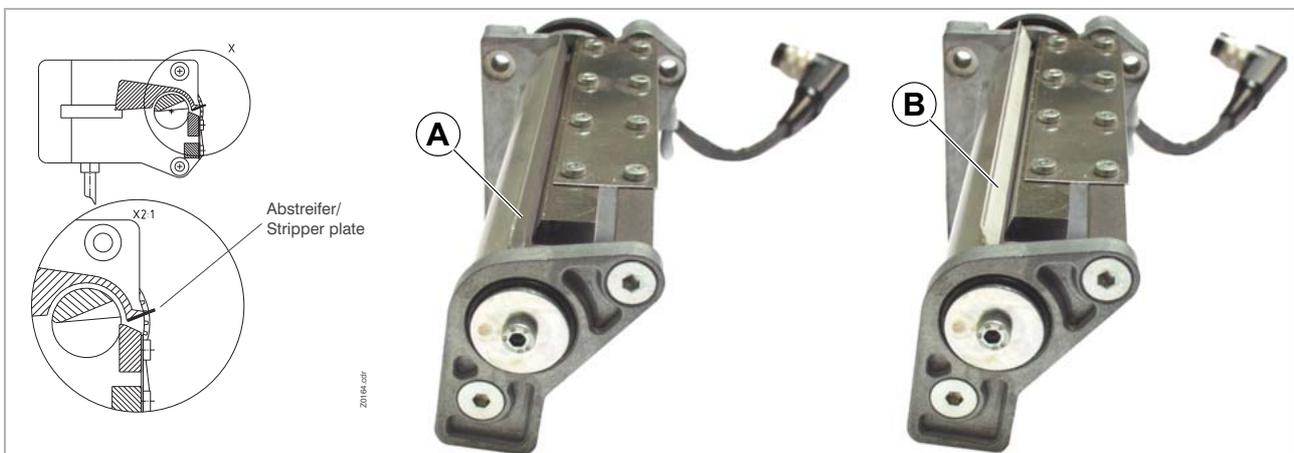
b) New 64-04 (dark-gray housing)



[8] The stripper plate is a simple plastic strip, which is supplied with adhesive foil on one side.

Assembling

1. Dismantle the cutter from the printer.
2. Clean the rim [9A] – best by means of some cleaning fuel.
3. Remove the cover paper off the stripper plate.
4. Glue the stripper plate [9B] to the rim as illustrated.



[9] Middle: Clean the rim (A) with cleaning fuel. Right and left sides: Glue the stripper plate (B) justified to the one edge – the stripper plate should loom above towards the paper-insertion side.