

# TowerFeed<sup>T</sup> for the HP LaserJet 8150 / 8100 / 8000

# Ruti/hau/er

### **USER'S MANUAL**

# TowerFeed<sup>™</sup> 444 for Hewlett-Packard LaserJet 8150 / 8100 / 8000 Printers

TABLE OF CONTENTS	1
PREFACE	3
UNPACKING	4
BOX CONTENTS	6
INSTALLATION Hardware Installation Printer Panel Settings Software Installation	7 9 9
OPERATING Loading Paper Reloading Paper Out of Paper Paper Jam	11 12 12 12
PAPER QUALITY GUIDELINES	14
APPENDIX A - Printer Specific Notes	15
APPENDIX B - Tips & Hints	16
APPENDIX C - Standard Applications	20
APPENDIX D - Macintosh Environment	21
APPENDIX E - PCL Paper Selection Commands	23
APPENDIX F - Troubleshooting	24
APPENDIX G - Printer Selftest Pages Configuration Page Menu Map Event Log Page	26 27 28 29
APPENDIX H - TowerFeed Selftest	30
APPENDIX I - Cleaning and Maintenance	31
APPENDIX J - TowerFeed Specifications	32

IU 661 / 0047

Congratulations! You selected TowerFeed, a superior sheet feeder specifically designed by Rutishauser Data AG in collaboration with Hewlett-Packard, USA, to extend the paper handling capabilities of the HP LaserJet 8150 / 8100 / 8000.

The TowerFeed Option offers new possibilities. You can

- select from up to 9 different paper types directly from your PC.
- print extra copies instead of going to the copier to make copies. You get the better copies and you Color code copies of documents on color paper help to clearly identify a copy. The color already defines the addressee and you will save the marking of the copies.
- **realize an attractive alternative to the multi-part forms printed on conventional impact printers.** You will get better copies, raise the flexibility and you can save cost for expensive preprints and chemical papers.

We encourage you to read this manual carefully to ensure correct installation and reliable operation. While installing TowerFeed, or whenever an unclear situation arises, please also consult the user's manuals of your HP LaserJet 8150 / 8100 / 8000, your computer system, your application software and your network software.

The name TowerFeed is generic to the TowerFeed family of automatic sheet feeders and is used throughout this manual. TowerFeed has this model number scheme:

## TowerFeed 444/xx.60.1y



For example: TF 444/66.60.11 is an international version with 6 DIN A4 paper trays.

A plate showing type, designation and serial number is located besides of the power inlet of TowerFeed. Please refer to this designation and the serial number whenever you call your service organization.

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# UNPACKING

Note:

Prior to delivery, your TowerFeed was thoroughly tested and carefully packaged. Please check your unit for transportation damage and/or missing parts immediately upon receipt.

It is advisable to get a second person to help you unpack the unit.

### Warning:

TowerFeed may weigh up to 57 kilograms (130 pounds) depending on configuration. To prevent back strain or injury, bend your knees when lifting the unit, and get help if you need

To unpack the TowerFeed unit, proceed as follows:

- Cut the packing strips ① and remove the top of the shipping container ② (Fig. 1).
- Remove the accessories box (9). It contains the rollers, the power and data cable, one diskette and this User's Manual (Fig. 7).
- Remove the four blue shock absorbers from the feed adapter and the upper edges of TowerFeed (5-(8).
- Lay the unit on its side and carefully pull off the lower part of the shipping container (3+4) (Fig. 2), or enlist the help of another person to lift TowerFeed out of the container.

### Caution:

Do not lift TowerFeed on the Feeder Adapter to prevent it from damage!

- Insert the rollers from the accessories box with some force onto the shafts on the TowerFeed bottom plate until they snap into position with an audible click (5) (Fig. 3).
- Stand up the TowerFeed unit 6 (Fig. 4).
- Remove the plastic from TowerFeed.

### Warning:

For reshipping TowerFeed you must use the original packing to avoid shipping damage of the unit.

### Re-packing (Fig. 5)

It is recommended that you keep the packaging material and inserts for proper protection of the unit and its parts in case of reshipment.

To repack TowerFeed, follow the above steps in reverse. Be sure that all accessories including manuals and diskettes are packed in the box. Remove the trays and insert the transportation inserts as shown in Fig. 8 (It is important to secure the trays to avoid possible shipping damage). Place items according to Fig. 5. Ensure TowerFeed is correctly seated and cushioned. Insert the four blue shock absorbers and close the container.

IU 661 / 0047

# UNPACKING



IU 661 / 0047

TowerFeed<sup>™</sup> for the HP LaserJet 8150/8100/8000

### Note:

Prior to delivery, your TowerFeed was thoroughly tested and carefully packaged. Please check your unit for transportation damage and/or missing parts immediately upon receipt.

### **Box Contents**

- (1) TowerFeed unit with drawers
- (2) Accessories box





### **Accessories Box Contents**

- (1) TowerFeed User's Manual (this manual)
- (2) Data Cable
- (3) Power Cable
- (4) Rollers



Fig. 7 Accessories Box Contents

### **Hardware Installation**

### Warning:

POWER OFF your printer and TowerFeed and disconnect all power and interface cables before you proceed with the installation.

### **Remove Transportation Inserts**

- Pull out, lift upwards and remove the trays from TowerFeed. Remove the transportation inserts (Fig. 8). There are two at each side (keep the inserts for reshipment).
- Re-insert and close the trays.





### Note:

Located on the right side of each tray you will find coding pins for the paper size. They are set by the factory and must not be changed.

### **Position and Connect Printer**

### Warning:

The printer may weigh up to 53 kilograms (120 pounds). Enlist the help of a second person to lift the unit. To prevent back strain or injury, bend your knees when lifting the unit.

- Place the TowerFeed unit at the location you wish. Be sure to place it on a flat location.
- Pull the feeder adapter open and carefully lift the laser printer onto TowerFeed. Place its positioning holes on the positioning pegs of the TowerFeed top (Fig. 9).
   Be careful to not damage the paper feeding adapter.

### Caution:

To lift the printer use one hand for the left hand holds and the other hand to hold the printer at its right side.

• Do not use the handholds on the right side of the printer.



Fig. 9 Positioning the Printer and Location of the Power Switch

7

# INSTALLATION

 Connect TowerFeed and printer with the C-Link cable (Fig. 10) one end to the printer port (ACCESSORY) and the other end to the upper TowerFeed connector (•). The lower TowerFeed connector (•) allows to connect to further paper handling options (e.g. HP Multi-Bin Mailbox).

### Note:

Secure the connectors with the screws to ensure proper connection of the systems.

• Connect the power cables to printer and TowerFeed (Fig. 10).

### Note:

When you power on the system, power on FIRST TowerFeed and then the printer.

### Caution:

When rolling TowerFeed and printer to another place, watch out when crossing doorsteps to not have the unit tipping over or TowerFeed drawers sliding open.



Fig. 10 Connecting the Cables

### **Printer Panel Settings**

### **Papertype Assignments**

By default, each paper tray has assigned the paper type PLAIN. In case of a paper out in a selected tray, the printer automatically will pull paper from another tray.

Assigning a different paper type to each tray inhibits the automatic switching to another tray if the selected tray runs out of paper.

To assign a paper type to an input tray, select with the menu key the PAPER HANDLING MENU and there the specific input tray. Then assign to each tray another one of the 11 predefined paper types.

If you have several trays with the same paper, assign to each of these trays the same paper type. This will increase your input capacity for this paper type, as the printer will automatically switch to the next tray with the same paper type in case the selected tray runs out of paper.

For further information please also refer to APPENDIX B – Tips & Hints.

### Note:

PLAIN is the default paper type. In case a print job arrives without paper selection, the printer will pull paper from the first tray containing PLAIN paper (e.g. printer test pages).

### **Software Installation**

### Installation of Printer Driver

Install the printer drivers deliverd with your HP LaserJet according to the instructions.

For availability of the most recent printer drivers and drivers for other operating systems, please consult the HP WEB or our WEB site at http://www.rutishauser.ch/ti/sdlhp.htm.

Note:

After installing the new printer driver, exit and restart your Windows System.

### **Configuring the TowerFeed Option**

To configure your printer with the TowerFeed option, go to the *Control Panel*, select *Printers* and there the respective HP LaserJet driver.

Click on Properties, and in the respective window the Configure tab.

HP LaserJet 8000 Series PLL & Properties	Y X
HP LaseJet 8000 Series PLL 9 Properties         General Details Finishing Effects Paper Destination Basics Configure         Paper Handing Options         Duplexing Unit         Envelope Feeder         Ø Mopier Enabled         Optional Paper Destinations:         [None]         Optional Paper Sources:         [INS00]         Disconsite TowerFeed 44	Optional Paper Sources:         (None)         (None)         (None)         2000-Sheet Input Tray         0r 2x500-Sheet Input Tray         4x500-Sheet TowerFeed 44         6x500-Sheet TowerFeed 66
Driver Work Space	
HEWLETT     OK Cancel Apply	Fig. 11a Optional Paper Sources

Fig 11 Configure Tab

In this window click in the pull-down bar for the *Optional Paper Sources:* to select your TowerFeed model (Fig. 11a). The artwork on the right will show the selected printer with the TowerFeed model installed (Fig. 11).

When clicking on the *Paper* tab you will see in the *Source is:* all available paper sources of your printer including the TowerFeed paper trays (Fig. 12).

P LaserJet 8000 Series PCL 6 Properties General Details Finishing Effects Paper [	Pestination     Basics     Configure
All Pages United Teleform Control of the second sec	<b>H</b>
Size is: 210 by 297 mm. A4  Custom Source is: Tray 4	
Type is: Auto Select	
OK	Cancel Apply Help

Fig. 12 Paper Tab

Page Setup		? ×
Margins Paper Size	Paper Source	Layout
First page:	Pr	review
Tray 4 Tray 5 Tray 6 Tray 7 Other pages:		
Tray 4 Tray 5 Tray 6 Tray 7		
	<u>A</u> pr	piy to: Whole document



In the application programs you select the paper sources in the Paper Setup function (File - Page Setup), where all available paper sources show up in the respective Paper Sources: pull-down bar(s) (Fig. 13).

### Note:

For further information on Tray and Media Type definition please also refer to APPENDIX B - Tips & Hints of this manual.

IU 661 / 0047



PCL 6

# OPERATING

### Operation

### **Loading Paper**

- Pull open the tray you wish to load until it reaches the stop or remove it completely for more convenient loading.
- Obtain a fresh ream of paper. Best results will be obtained using regular copier or laser printer paper (see "Paper Quality Guidelines").
   Hold the ream on the long edge and bend it in and out.
   Repeat on the short edge. Square it off properly (Fig. 14).
- Load letterhead paper face down, with the letterhead towards the right side.

### Note:

Duplex printing requires different loading of preprinted paper (please also refer to the instructions in the printer manual). *An additional TowerFeed tray will allow to have the same* (preprinted) paper in two different trays and available online for regular and duplex printing.

- Insert approx. one third of the ream in the tray and ensure that all paper is lined up with the rear stop. Repeat two more times for the rest of the ream (Fig. 15).
- Push down the stack, such that all sheets are under the separation corners (Fig. 16).
- The right paper guide can be adjusted by pushing the separation corner tab to the left to ensure proper guiding of the paper.
- Push down on the paper stack a few times. The paper must move up and down freely.

### Note:

For your convenience, you may insert a sample piece (about 1 inch/28 mm) of the loaded paper type into the extrusion as a reference when reloading the tray (Fig. 17).

• Close the tray. Repeat the procedure for all trays to be loaded.







Fig. 15 Filling in Paper



Fig. 16 Correct Paper Loading



Fig. 17 Marking the Tray

IU 661 / 0047

11

# OPERATING

### Paper Tray empty

TRAY n EMPTY CHECK RIGHT DOOR alternating with



This message indicates an empty paper tray. Refill the depleted tray. While feeding occurs from a higher tray, lower ones may be reloaded without interrupting feeding and printing.

### Paper Tray depleted during Print Job

TRAY n LOAD Media Type & Size (n = drawer number)

This message appears if the selected tray runs out of paper (and if there is no other tray with the same paper size and type, depending of the printer settings.)

If a tray runs out of paper, the printer will automatically switch to another tray with the same paper type and size and pull paper from there. Otherwise it displays that message, the Attention LED starts blinking, and a respective error message appears at the user screen (depending on the application).

Refill the tray with the correct paper. After closing the tray, the printer will resume printing.

### **Requested Paper missing**

TRAY 1 LOAD	
Media Type & Size	

This message indicates that the requested paper is not available, either because the print job explicitely asks paper from tray 1, or because it asks for paper from a tray which size and type does not correspond with the document page settings.

Load tray 1 with the requested paper or cross-check the settings for the document (Page Setup).

### Paper Jam

In case of a paper jam, the printer panel Attention LED will start blinking and the printer display will show a respective message with the following meaning:

13.1PAPER JAMpaper jam in printer13.11PAPER JAMpaper jam in TowerFeed

• In case of a **printer paper jam**, you will see the following alternating messages:

13.1 PAPER JAM	alternating	THEN OPEN AND
CHECK RIGHT DOOR	with	CLOSE TOP COVER

Remove the paper jam and all other pages in the paper path and close all the cover(s). Printing will continue. For more details on clearing printer paper jams please refer to your printer manual (Chapter Maintenance and Trouble Shooting, Section Paper Jams).

IU 661 / 0047

• In case of a **TowerFeed paper error**, the following alternating messages will be displayed:



alternating with



and TowerFeed will beep with either one of the following sequences (depending on type of error):



Open the TowerFeed trays, starting with the lowest one. TowerFeed beeping will stop when the tray which fed the last sheet is opened. Remove the jammed paper from the TowerFeed paper path. Close all TowerFeed trays. Printing will continue automatically.

In case the printer could not automatically eject the remaining paper inside the printer, open the printer cover(s) and clear the paper path. Close the printer cover(s) to have the printer resume the print job.

13

# PAPER QUALITY GUIDELINES

### General

These paper quality guidelines are general recommendations. Paper beyond these specifications may work as well, however it should be tested before use. Paper is a material that reacts intensively to adverse temperature and humidity conditions. The observance of proper conditions as defined below is therefore essential for trouble-free operation of TowerFeed. Please also refer to the corresponding guidelines in the printer manual.

### Paper Quality and Surface

Bond type papers and papers with slight rag content are recommended. For papers with high rag content, as well as very light and air mail papers, feeding tests must be conducted to check for satisfactory performance before regular use. Paper with embossed or heavy printing should be tested in TowerFeed before use, as well. Papers with glossy or structured surface are not recommended. Individual sheets in a stack must not be damaged, warped more than 3 mm (0. 12") at an angle of max. 20° or creased, since all these may reduce the feeding performance.

### Paper Weight

60 - 95 g /  $m^2$  (16 - 24 lb.). Other paper weights must be tested before use.

### Tolerance

Paper must be cut to the appropriate size dimension within a tolerance of +/-1.0 mm (+/-0.04"). The paper stack must be cut square to within a tolerance of 90° +/-0.1°.

### **Recommended Storage Environment**

Temperature: 18°C - 24°C (64°F - 75°F)

Relative humidity: 40% - 60%

### **Printer Firmware Revision**

The Firmware of your HP LaserJet printer must be the following Revision to correctly support the TowerFeed option:

HP LaserJet 8150all revisionsHP LaserJet 81005.29 or newerHP LaserJet 8000>4.29(lower firmware revisions do not support the 'POWESAVE' function)

In case your HP LaserJet 8000 printer does not have a newer printer Firmware revision than 4.29, you have to set the POWERSAVE function to OFF (printer panel: CONFIGURATION MENU, POWERSAVE = OFF) or ask your HP Dealer for a newer printer firmware.

### **Printer Driver Revision**

Please use the drivers from the CD received with your printer. For the most recent driver revisions available, please consult the HP WEB or our WEB site at http://www.rutishauser.ch/ti/sdlhp.htm.

### **HP** LaserJet Duplexer Option

The printer's duplexing capabilities remain fully supported, with the TowerFeed paper handling option installed.

### HP 2000-Sheet Tray and 2x500-Sheet Input Trays

TowerFeed is used instead of these options and therefore, they cannot be installed together with TowerFeed.

### **Optional HP Paper Output Units**

These output options can be installed together with TowerFeed. For the TowerFeed 6-tray unit you can order a special stand to compensate for the height difference of the output option.

### HP JetAdmin

The HP JetAdmin network printer administration software does not fully support the TowerFeed paper handling option, particularly not the remote paper type assignment to the paper trays. (This assignment has to be done via the printer panel, as described in Papertype Assignments on page 9 of this manual.)

15

### Power ON Sequence

### Power On TowerFeed first!

When powering on the printer, it will scan its option bus for available options. In case TowerFeed would not be ready at that point in time, the printer would not activate its support and not add this option to its configuration.

### Printing on the wrong Paper

### Why doesn't it print from the tray I selected?

If a selected Tray # does not contain the paper size assigned for the print job, the printer might look for other trays containing the demanded paper size, and if this is available (and with the same Media Type as Tray #) will pull paper from there.



The 3 Rules For Correct Paper Selection

- 1. Assign a different Paper Type to every Tray # by using the printers control panel. You may assign the same Paper Type to two or more tray numbers only if these trays all contain the same Paper Type.
- Make sure that you select the correct Paper Size for the selected Tray #.
   The selected Paper Size in the application software must be the same as the size of the selected Tray #.
- 3. Select paper within your application by Paper Type or by Tray #. If a tray containing the selected Paper Type runs out, the printer will pull paper from other trays only if they have the same Paper Size and Type.

### **Paper Control and Selection**

Selection Criteria

The HP LaserJet offers various possibilities to select paper by offering three selection criteria:

- Paper Size
- Paper Source (Tray number)
- Paper Type

The selection criteria differ in their priorities and can be changed using the JetAdmin utility software.

### Paper Types

The Paper Type is a selection criteria which can be used to name trays and to distinguish between different paper types within a given paper size. The HP LaserJet offers 11 predefined Paper Types: Bond, Cardstock, Color, Labels, Letterhead, Plain, Preprinted, Prepunched, Recycled, Rough and Transparency.

### Default Paper Type

Without a specific paper type assigned to a Tray, Plain becomes the default paper type.

### Changing Paper Type from the Control Panel

- 1. Press MENU until PAPER HANDLING MENU appears
- 2. Press ITEM to scroll through the trays and their paper types
- 3. Press + to scroll through the paper type options
- 4. Press SELECT\* to choose the type of paper you loaded in the tray.

### **Creating PAPER SEQUENCES for a Word Document**

It is widely known that in Page Setup you have the possibility to enter different paper sources for First Page and Other Pages. If there are other pages in the document, which have to be printed on another paper, this can be defined in the same Page Setup window. In this window there is a pull-down bar *Apply to:* which is used for that purpose. The default setting is *Whole Document* but there are also the options *This point forward* and *Selected text*, which can be selected (Fig. 18 and 18a).

Page Setup ?X	Page Setup	? ×
Margins       Paper Size       Paper Source       Layout         Eirst page:       Default tray (Tray 4)       Image: Preview         Auto Select       Image: Preview         Other pages:       Image: Preview         Default tray (Tray 4)       Image: Preview         Auto Select       Image: Preview         Manual Feed       Image: Preview         Tray 1       Image: Preview         Auto Select       Image: Preview         Manual Feed       Image: Preview         Tray 1       Image: Preview         Auto Select       Image: Preview         Manual Feed       Image: Preview         Tray 1       Image: Preview         Apply to:       Whole document         Whole document       Image: Preview	Margins       Paper Size       Paper Source       Layout         First page:       Default tray (Tray 4)       Image: Tray 1       Image: Tray 1       Image: Tray 1         Other pages:       Default tray (Tray 4)       Image: Tray 1       Image: Tray 1       Image: Tray 1         Auto Select       Image: Tray 1       Image: Tray 1       Image: Tray 1       Image: Tray 1         Apply to:       Image: Tray 1       Image: Tray 1       Image: Tray 1       Image: Tray 1       Image: Tray 1	
Default OK Cancel	Default OK	Cancel

Fig. 18 Page Setup - This point forward

Fig. 18a Page Setup - Selected text

The option *Apply to:* allows to force a change of the paper source or from a specific page onwards and thus to define paper sequences for a whole document.

### Printing a DOCUMENT WITH COPIES (Multi-Part-Form)

When printing a document you get either an original copy (copies = 1), or, if you set copies = n, you will get n times the same printout. Usually you want the original document to distinguish from its copies. An elegant method for that purpose is to print the copies on different (color) paper. This can be done by sending the print job several times to the printer but with different page settings. Using a Macro makes this an easy task.

On the next page you will find an example of a macro used for a Word document. The macro starts with 'Sub Macro' and ends with 'End Sub'. It consists of several sections (one per copy) which contain the paper definitions for each copy (FirstPageTray = xx; OtherPagesTray = yy).

You can use the Macro Recording function of Word (Extra-Macro-Record) to produce the first section by performing the steps for Page Setup and Print. Then, in Macro Edit mode, you copy/paste this section to have one for each copy to print (one section per copy). Finally you edit the entries in FirstPageTray = xx; OtherPagesTray = yy to the desired paper sources.

This will produce a macro, which prints the document in multiple copies and with the respective page settings. Such a macro can be incorporated into a Menu item or added as icon into the Toolbar.

### Hint:

When creating and adding a Macro to the Toolbar for automatic printing of the final document with its copies, it might be useful to also create and add a second Macro for draft printing on cheap paper.

17

# **APPENDIX B - Tips & Hints**

HP LaserJet 8150 / 810	Paper Type	
Tray	Denomination	
Tray 1 (HP Printer) Tray 2 (HP Printer) Tray 3 (HP Printer) Tray 4 (TowerFeed) Tray 5 (TowerFeed) Tray 6 (TowerFeed) Tray 7 (TowerFeed) Tray 8 (TowerFeed) Tray 9 (TowerFeed)	wdPrinterUpperBin wdPrinterLowerBin wdPrinterLargeCapacityBin 256 257 258 259 260 261	e.g. Letterhead e.g. Plain e.g. Bond e.g. Color

The following table shows the internal denominations of the paper sources:

### Example:

The following Word Macro will produce an original document (on company paper) incl. 2 copies (plain and color).

Page	Original (Copy 1)	1 <sup>st</sup> Copy (Copy 2)	<b>2<sup>nd</sup> Copy</b> (Copy 3)
First Page	Letterhead	Plain	Color
Other Pages	Bond	Plain	Color

### **Macro Start**

Sub Macro1 ()

Macro1 Macro Macro recorded 05.06.98 by ...

ActivePrinter = "HP LaserJet 8000 Series PCL 6"

Application.PrintOut FileName:="", Range:=wdPrintRangeOfPages, Item:= wdPrintDocumentContent, Copies:=1, Pages:="1", PageType:=wdPrintAllPages, \_ Collate:=True, Background:=True, PrintToFile:=False With ActiveDocument.PageSetup .LineNumbering.Active = False .Orientation = wdOrientPortrait .TopMargin = CentimetersToPoints(1.8) .BottomMargin = CentimetersToPoints(2) .LeftMargin = CentimetersToPoints(2) .RightMargin = CentimetersToPoints(1) .Gutter = CentimetersToPoints(0) .HeaderDistance = CentimetersToPoints(0.5) .FooterDistance = CentimetersToPoints(2) .PageWidth = CentimetersToPoints(21) .PageHeight = CentimetersToPoints(29.7) .FirstPageTray = wdPrinterLowerBin .OtherPagesTray = 256 .SectionStart = wdSectionNewPage .OddAndEvenPagesHeaderFooter = False .DifferentFirstPageHeaderFooter = False .VerticalAlignment = wdAlignVerticalTop .SuppressEndnotes = False .MirrorMargins = True End With Active Document.PrintOut

IU 661 / 0047

With ActiveDocument.PageSetup .LineNumbering.Active = False .Orientation = wdOrientPortrait .TopMargin = CentimetersToPoints(1.8) .BottomMargin = CentimetersToPoints(2) .LeftMargin = CentimetersToPoints(2) .RightMargin = CentimetersToPoints(1) .Gutter = CentimetersToPoints(0) .HeaderDistance = CentimetersToPoints(0.5) .FooterDistance = CentimetersToPoints(2) .PageWidth = CentimetersToPoints(21) .PageHeight = CentimetersToPoints(29.7) .FirstPageTray = wdPrinterLargeCapacityBin .OtherPagesTray = wdPrinterLargeCapacityBin .SectionStart = wdSectionNewPage .OddAndEvenPagesHeaderFooter = False .DifferentFirstPageHeaderFooter = False .VerticalAlignment = wdAlignVerticalTop .SuppressEndnotes = False .MirrorMargins = True End With Active Document.PrintOut With ActiveDocument.PageSetup .LineNumbering.Active = False .Orientation = wdOrientPortrait .TopMargin = CentimetersToPoints(1.8) .BottomMargin = CentimetersToPoints(2) .LeftMargin = CentimetersToPoints(2) .RightMargin = CentimetersToPoints(1) .Gutter = CentimetersToPoints(0) .HeaderDistance = CentimetersToPoints(0.5) .FooterDistance = CentimetersToPoints(2) .PageWidth = CentimetersToPoints(21) .PageHeight = CentimetersToPoints(29.7) .FirstPageTray = 257 .OtherPagesTray = 257 .SectionStart = wdSectionNewPage .OddAndEvenPagesHeaderFooter = False .DifferentFirstPageHeaderFooter = False .VerticalAlignment = wdAlignVerticalTop .SuppressEndnotes = False .MirrorMargins = True End With Active Document.PrintOut End Sub

### Macro End

19

### Where to select Paper Size and Paper Type

You select the TowerFeed option paper sources from your standard application software the same way as the regular printers paper sources.

Please also refer to Appendix B (Tips & Hints - The 3 Rules For Correct Paper Selection) for recommendations on which paper selection criteria to use.

Below you will find the information on where to set the paper selection parameters in the most common standard applications.

MS-WORD:	File - Page Setup – Pap Pap	per Size per Source	Paper Size: First Page: Other Pages:
EXCEL:	File - Print - Properties -	Paper	Size is: Source is: Type is:
	File - Page Setup - Pag Pag	je je - Options - Paper	Paper Size: Size is: Source is: Type is:
WRITE:	File - Print - Setup	Paper Size:	

Paper Source:

This information was not yet available at printing time.

Please refer to our WEB site for the most recent software versions: <u>http://www.rutishauser.ch/ti/sdlhp.htm</u>.

This information was not yet available at printing time.

Please refer to our WEB site for the most recent software versions: http://www.rutishauser.ch/ti/sdlhp.htm.

Frequently used PCL commands for Paper Selection:

Command	function	# refers to	HP LaserJet 8150 / 8	3100 / 8000
ESC & I #H	Selects Paper Source	# reters toHP LaserJet 8150 / 8100 / 80000print/eject page1Tray 22Manual Feed - Paper3Manual Feed - Envelope4Tray 4 (2000-Sheet Input Tray*)5Tray 36Envelope Feeder7Auto Select8Tray 120Tray 4 (TowerFeed Tray 1)21Tray 5 (TowerFeed Tray 2)22Tray 6 (TowerFeed Tray 3)23Tray 7 (TowerFeed Tray 4)24Tray 8 (TowerFeed Tray 5)25Tray 9 (TowerFeed Tray 6)*NA with TowerFeed installed		
ESC & I #A	Selects Paper Size	2 = Letter 3 = Legal 6 = 11 in x 17 in 26 = A4 27 = A3 for other sizes please refer to your printer manual		
ESC & n # Wd mediatype	Selects Paper Type	# 6 11 11 13 11 7 5 9 6 11 6	mediatype Plain Preprinted Letterhead Transparency Prepunched Labels Bond Recycled Color Cardstock Rough **indication for	Panel Display** PLAIN PREPRINTD LTRHEAD TRNSPRNCY PREPUNCHD LABELS BOND RECYCLED COLOR CARDSTOCK ROUGH

### **Diagnosing an Error Situation**

When calling for support, please have the Printer test pages at hand (Configuration Page, Menu Map and Event Log Page as per APPENDIX G).

Pos	LED	Printer Display	TF Beeping	Description	Action / Remarks
1	OFF	TRAY n OPEN		Tray n open	Close Tray
		alternating with			
		READY			
2	OFF	TRAY n EMPTY		Empty Tray without pending print request	Reload tray n
		alternating with			
		READY			
3	ON	TRAY 1 LOAD Media Type & Size		Requested paper not available	Load Tray 1 with the correct size
					See printer manual to change Media Size and Type through the printer control panel.
4	ON	TRAY n LOAD Media Type & Size		Paper requested from empty Tray n	Refill Tray n
					Switches automatically to next Tray with same Size & Type and pulls paper from there (depending on settings).
5	ON	13.1 PAPER JAM CHECK RIGHT DOOR		Paper jam in Printer	Clear paper jam and all other sheets from the paper path. Open/close printer cover(s)
		alternating with			
		THEN OPEN AND CLOSE TOP COVER			Also refer to section 'OPERATING - 'Paper Jam' in this manual and to your printer manual for further details.
6	ON	13.11 PAPER JAM IN INPUT DEVICE	Beep Type 2 or	Paper jam in TowerFeed	Clear paper jam in TF. Close TF Tray(s).
		alternating with			
		CHECK TRAY n AND RIGHT DOOR	Веер Туре 3	TowerFeed Motor blocked	Open TF Tray(s). Remove all sheets from the TF paper path. Close TF Tray(s). In case error stays, call Service.

For TF Beeping Sequences (TF Beep Types) see next page. For other error messages on the printer panel display please refer to your printer manual.

IU 661 / 0047

# **APPENDIX F - Troubleshooting**



### **TowerFeed Beep Types**

The following three functions allow you to print out information about your printing system configuration. These pages can be selected via printer panel (Item: INFORMATION MENU).

### Note:

The information for the configuration page are recorded at power-up time. There is no update of the changes after power-up.

### Configuration Page (Sample page on page 27)

This page will be printed via printer panel (INFORMATION MENU - PRINT CONFIGURATION). Of particular interest are the indications under Paper Trays and Options where you can see:

### Paper Trays and Options

- PH Controller (Revision) PHC
- Device 1:

Rutishauser TOWERFEED 444 option with configuration, Firmware Revision of Option PCB/Logic PCB, installed trays [size code\*] and tray capacity \*[size codes]: A4=6, A3=4, US Letter=7, US Legal=3, US Ledger=5

### Menu Map (Sample page on page 28)

The Menu Map page can be selected via printer panel (INFORMATION MENU - PRINT MENU MAP). This page is showing the different paper sources and its allocated Media Types.

PAPER HANDLING MENU

showing paper sources (trays) with the allocated Media Types, e.g. Tray 4 TYPE = LETTERHEAD

Event Log Page (Sample page on page 29)

Via printer panel (INFORMATION MENU - PRINT EVENT LOG) you can print the Event Log Page showing the last 50 system errors including an error code for identification. Very helpful for diagnosing purposes!

TowerFeed error codes:

- 13.1x.3n TowerFeed Paper Jam 13.1x.2n TowerFeed Motor blocked
- x = Device numer
- n = TowerFeed tray number (not printer tray)

### Note:

Whenever calling for service, please make sure to have these information pages at hand.





**APPENDIX G – Printer Selftest Pages** 

IU 661 / 0047

TowerFeed<sup>™</sup> for the HP LaserJet 8150/8100/8000

H	P La	aser.	Jet 8000 series printers						
Eve	entLo	n Pac	1e1						
		yg i ug	, ,						
Current	: Page Cour	nt: 191488	Serial Number: XXXXXXXXXX						
Number	Error	Page Count	Description or Personality						
2 1	13.11 22 13.11 32	191482 191481	EXTERNAL INPUT DEVICE PAPER JAM EXTERNAL INPUT DEVICE PAPER JAM						
	Please refer to page 26 for more information on this page.								

### **TowerFeed Selftest Feature**

The TowerFeed selftest feature allows to test the TowerFeed unit independently from any printer and computer. With this test you can check for correct paper feeding (horizontal position, skew, jam behavior).

Note:

To perform a TowerFeed selftest, remove the printer's paper cassette.

Follow the following steps:

- Power-off TowerFeed.
- Open all TowerFeed Trays (approx. 5 cm is sufficient).
- Put a (deflector-) sheet of paper between the TowerFeed paper feeding adapter and the printer (to avoid the sheet being fed to enter into the printeer's paper path).
- Power-on TowerFeed.
- Wait until you hear a short beep followed by the clicking of the solenoid activation in every module, and finally the spinning of the motor (approx. 5 sec).
- Close the top-most TowerFeed tray. After a few seconds a sheet will be fed from this drawer. You now can mark on the (deflector-) sheet the position of the left border of the (reference for horizontal paper position).
- Pull out the sheet from its waiting position. TowerFeed will automatically feed a next sheet. You now can compare the position of the left border of the next sheet. If it moves up straight in the same position, this is ok. (In case the left position would be different, or moving from left to right (or vice-versa), this might indicate a problem in either the tray, the unit (module) or the paper loading.)
- To test the next lower tray, close that tray before removing the sheet from its waiting position. Now TowerFeed will feed the sheet from that next lower tray. (TowerFeed will always feed the next sheet from its lowest closed tray.)
- To revert to normal operation, remove the (deflector-) sheet and power-off and on TowerFeed again with at least on tray closed. TowerFeed will respond with a short 'Reset' beep that it is ready again.

In case error conditions are showing up which are depending on a specific TowerFeed tray, you can swap trays to find out whether a problem exists with the tray itself or whether a specific module is the cause.

TowerFeed does not require preventive maintenance. Cleaning of housing and removal of paper dust from within the TowerFeed drawers might now and then be indicated.

**Clean the outside** of TowerFeed with a lightly water-dampened cloth. Do not use detergents to avoid damage of the surfaces.

To **clean the paper drawers** from paper dust, completely remove the drawers from TowerFeed, remove the paper and use a vacuum cleaner with a soft brush.

### Warning:

To avoid damage to the paper-out sensor arms do not reach into the openings for the paper drawers.

<b>Dimensions and Weights:</b> Desktop Model Floor Model	<i>Model Designation</i> TF 444/44.60 TF 444/66.60	<i>Width</i> 608 mm 608 mm	<i>Depth</i> 521 mm 521 mm	<i>Height</i> 480 mm 660 mm	<i>Weight</i> 38.7 kg 56.8 kg
Paper Specifications:	60 - 95 g/m² (16 - 24 lb.)				
		Note:	Also consult t for your printe	he paper spe er.	cifications
Paper Trays:	<i>Standard trays:</i> Europe: USA:	A4 Landscape (European Size) US Letter Landscape (8 <sup>1/</sup> 2" x 11")			
	<i>Optional trays:</i> Europe: USA:	A3 Portrait US Legal Portrait (8 <sup>1/</sup> 2" x 14") US Ledger Portrait (11" x 17")			
Tray capacity:	Small paper sizes (A4, Letter, Legal)	Up to 500 sheets or a stack of 50 mm, whichever, depending on paper weight, is reached first.			
	Large paper sizes (A3, Ledger)	Up to 250 sheets or a stack of 26 mm, whichever, depending on paper weight, is reached first.			
Positioning accuracy:	For bond type paper typically better than				
		vertical:	+/- 2.0 mm (0	.08")	
		horizontal:	rizontal: +/- 2.0 mm (0.08")		
		skew:	2.5 mm (0.10	")	
Temperature:	Operating: Storage:	10°C to 32°C (50°F to 90°F) -25°C to 50°C (-13°F to 122°F)			
Relative humidity (non-condensing)	Operating: Storage:	30% to 80% 5% to 95%			
		Note:	Observe reco conditions for (see 'Paper C	mmended sto paper Quality Guideli	orage ines').
Power Requirements:	220 - 240 V~ +/-10%, 50 Hz, 100 mA or 100 - 120 V~ +/-10%, 60 Hz, 200 mA				
Fuse Type:	220 - 240 V: 150 mA slow (5x20mm) 100 - 120 V: 300 mA slow (5x20mm)				

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Further Options for HP LaserJets:



TowerFeed 444 for the HP LaserJet 4050/4000 the HP LaserJet 5000



TowerFeed 444 for

Manufactured by

Rutishauser Data AG Kronenstrasse 9 CH-8712 Stäfa Switzerland

+41/1 928 18 28 Tel: +41/ 1 928 18 29 Fax infodesk@rutishauser.ch e-mail Internet: http://www.rutishauser.ch

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