

Operator's manual for the Thermal / Transferprinter

e2





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FCC Compliance Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and the receiver.

Connect the equipment into an outlet on a circuit different than that to which the receiver is connected.

Consult the dealer or an experience Radio/TV technician for help.

NOTE: This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to insure compliance. The user is cautioned that any changes or modifications not expressly approved by cab Produkttechnik GmbH & Co KG could void the userÕs authority to operate the equipment.

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A Letter to Our Customers

Dear Customers,

Congratulation for selecting the cab e2 series printer! We believe soon you will find that you have made clever choice! This booklet is intended for helping you to know your printer better, then further to optimize it.

Basically, this booklet contains two parts: operation guidance and related valuable information.

In the part of the operation guidance, we will furnish you with a lot of complementary illustrations, so you may pick up those operation guides more quickly.

In the later chapters of Trouble Shooting, Maintenance as well as Reference Technical information, which we think, you may need them just in case. Therefore, for your quick reference, we try to table them as much as possible. Enjoy your reading and have a good time with your printer!

Best wishes, cab Produkttechnik GmbH u. Co.KG



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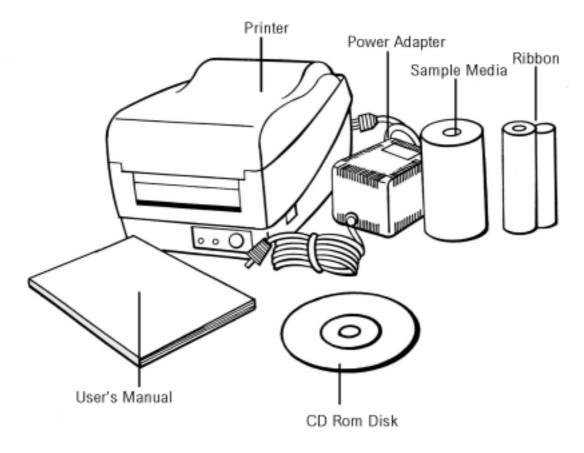


Checking Your Box

Receiving the box of your printer, you are advised to check first for the possible shipping damage. There are two ways you can do it:

- 1. Inspect the outer appearances of both the box and the printer for possible damage.
- 2. Raise the top cover of the printer to see if the media compartments are in order. If damages did occur, immediately file the claim to the shipping company for settlement.

Having performed the primary inspections, next step, please check whether you have received the following accessories together with the printer. If there is any item missing, contact your local dealer to get it.

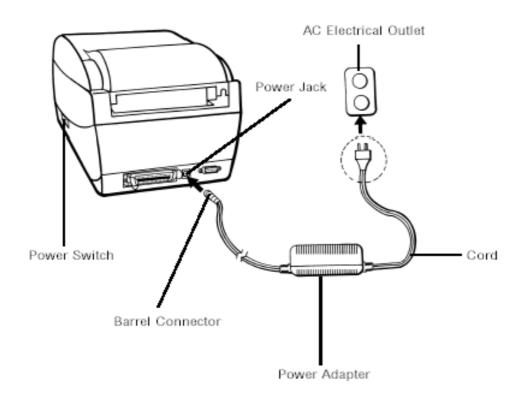




Power Supply

WARNING:

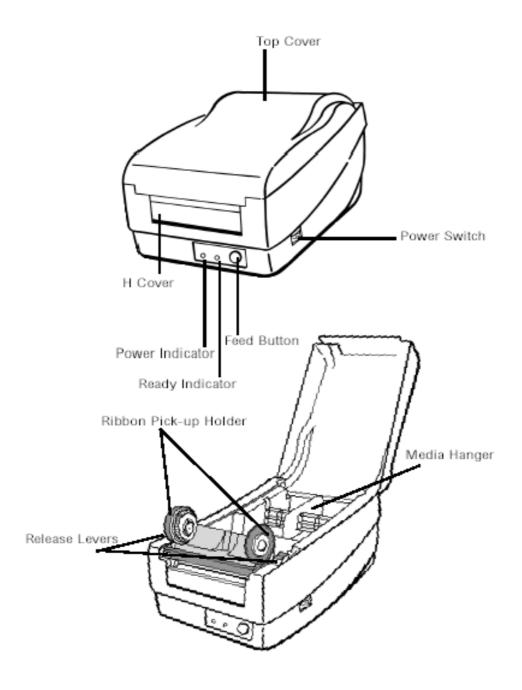
NEVER OPERATE THE PRINTER AND POWER SUPPLY IN AN AREA WHERE THEY CAN GET WET.



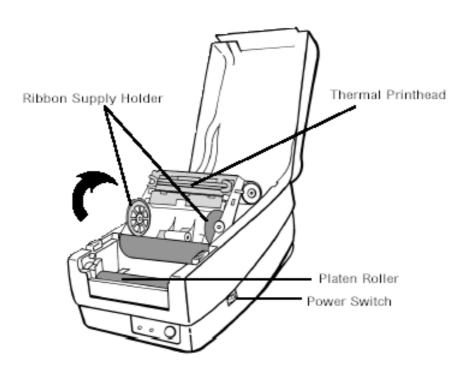
- 1. The Power Adapter has a barrel connector on one end that must be inserted into the power jack on the back of the printer.
- 2. Plug the other end of the cord into an appropriate AC electrical outlet.
- 3. When plugging the connector into power jack, please leave the power switch at "O"position and don't touch the 36 pin parallel connector.

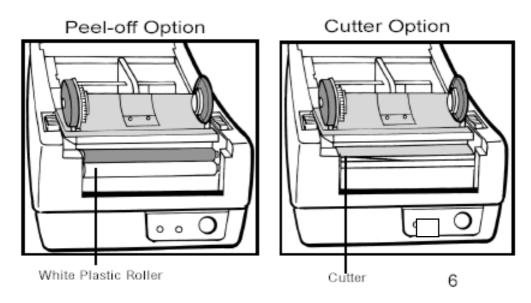


Parts and Features







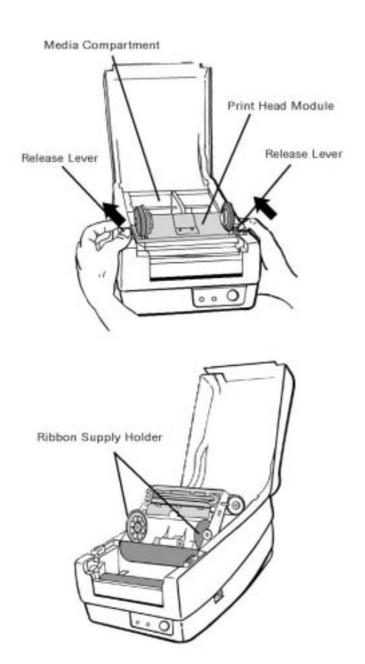




Loading the Ribbon

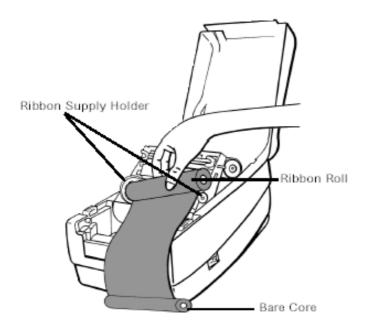
Note: This section is not applicable to the direct thermal printing.

- 1. Lift the top cover to expose the media compartment.
- 2. Unlatch the print head module by pushing the two white release levers on the sides toward the rear.
- 3. Turn over the print head module to expose the ribbon supply holder.

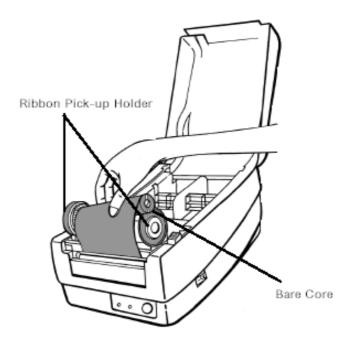




- 4. Unwrap the ribbon roll pack and separate the ribbon roll and the bare core.
- 5. Attach the edge of the ribbon on the bare core and wind it a little bit onto the core.
- 6. Insert the ribbon roll into the supply holder. (first snap in the left side and then the right side)

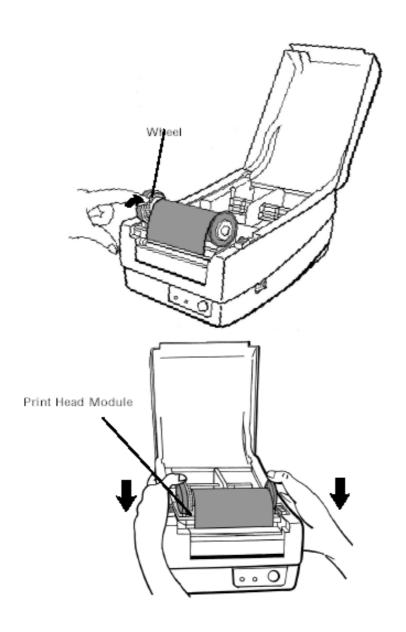


7. Turn back the print head module and then insert the bare core into the pick-up holder. (first snap in the left side, then the right side)





- 8. Turn the wheel of the print head module to ensure the ribbon is tightly wound.
- 9. Press down the print head module firmly till you hear a snap.





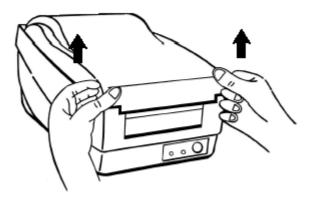
Loading the Media

e2 printers can be operated in three different options: standard, peel-off, or with a cutter.

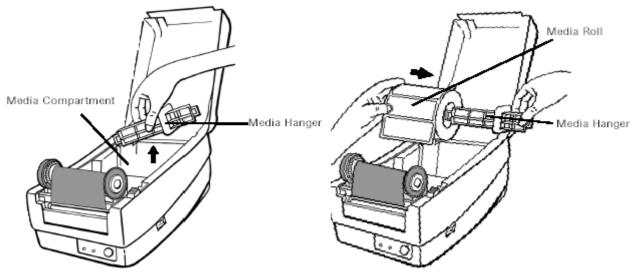
- Standard mode allows you to collect each label freely.
- In peel-off mode, the backing material is being peeled away from the label as it is printed. After the former label is removed, the next one will be printed.
- In cutter mode, the printer automatically cuts the label after it is printed.

Standard Mode

1. Lift the top cover to expose the media compartment.

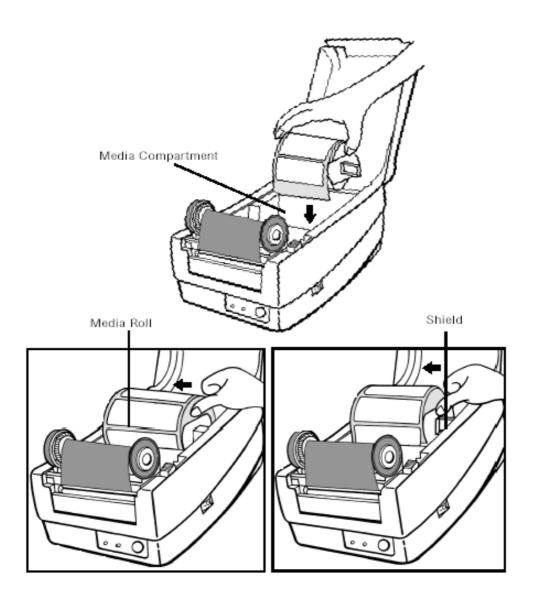


- 2. Remove the media hanger.
- 3. Load the media roll onto the hanger from the left.



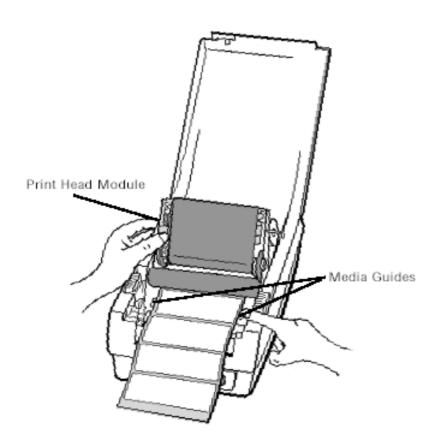


- 4. Click the media hanger back to the media compartment.
- 5. Move the media roll to the left end.
- 6. Move the shield to the left next to the media.



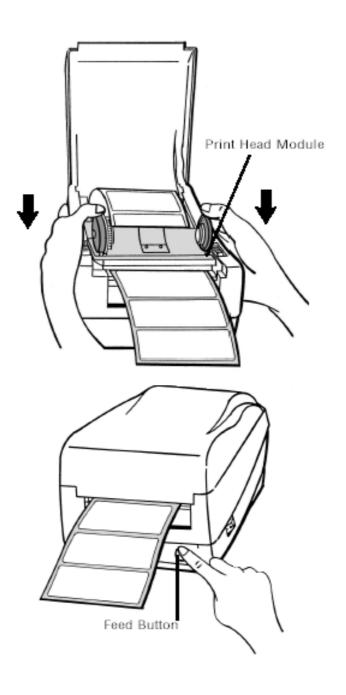


- 7. Unlatch the print head module.
- 8. Hold the print head module upright with one hand to allow the media pass under it. Lead the media through the media guides with the other hand.
- 9. Lead the media over the platen roller.





- 10. Turn back the print head module and then press it down firmly till you hear a snap.
- 11. Close the top cover and turn on the printer or press the feed button if the printer is already on.

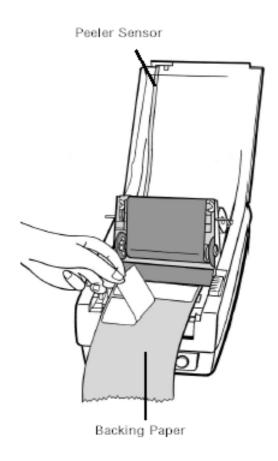




Peel Off Mode

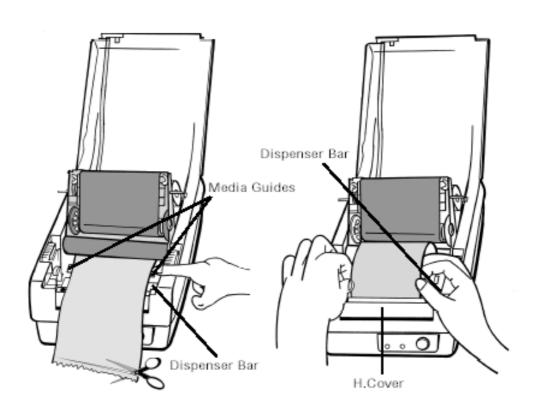
(Installing the dispenser kit, please refer to the Appendix *I*)
Follow the common procedure of "Loading the Media"of Standard Mode from step 1 to step 8.

9. Remove approximately 6" long labels from the label backing paper.



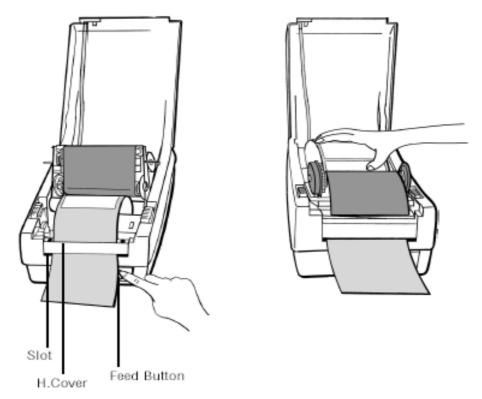


- 10. Trim the edge of the label backing paper with scissor or knife.
- 11. Lead the backing paper over the dispenser bar, then thread it back into the slot between the dispenser bar and H cover, ensuring that it is inserted between white plastic roller and platen roller.



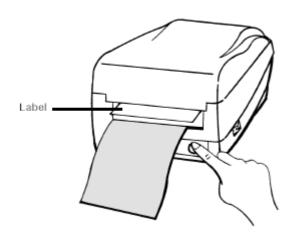


- 12. Press "FEED" button and the label backing paper will come out from the slot under the H cover.
- 13. On e2 Peel-Off mode, powered on status, in case of improper installation, just keep pressing the "FEED"button to back-feed thelabel stock to re-install it.
- 14. To remove any slack, just rewind the media onto the roll. Press down the print head module firmly



15. Close the top cover and turn on the printer or press the "FEED" button if the printer is already on.

Note: The "FEED" button will not drive the printer to peel. The peeling work can be executed only when the softwaresetting is ready.

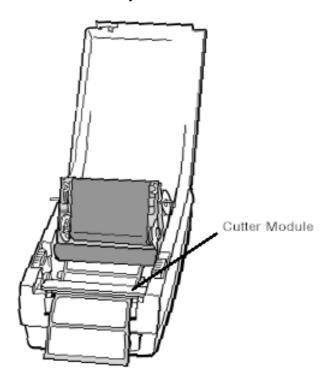




Cutter Mode

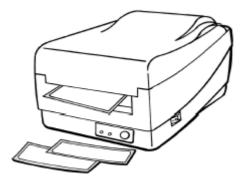
(Installing the cutter, please refer to Appendix *II*)
Follow the same procedure as "Loading the Media" from step 1 to step 8.

- 9. Thread the media over the platen roller, then route the media through the slot of the cutter module.
- 10. Press down the print head module firmly.



11. Close the top cover and turn on the printer or press the "FEED" button if the printer is already on.

Note: The "FEED" button will not drive the printer to cut. The cutting work can be executed only when the software setting is ready.





OPERATOR CONTROLS

Power Switch

Controls printer power
On-normal operation
Off-the power should be turned off before connect or disconnect the communication cables and power cables

Feed Button

Advance the label media to first printing position
Press-to advance a label
Press-takes the printer out of a "pause" condition
Press back food the label to correct label installation in

Press-back feed the label to correct label installation, in case that label is not properly installed.

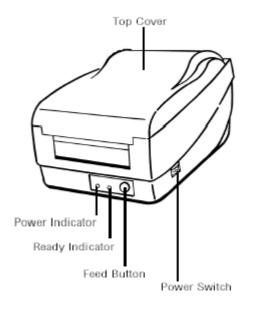
Keep pressing while turning on the power- to print out a configuration profile

Ready Indicator

Show the printers status Green-printer is ready to operate Blinking-printer is paused

Power indicator

Shows the power and error status Off-printer power off Green-printer power on Blinking-error occurs





Performing Calibration

- 1. Keep pressing the feed button while turning on the power, until the printing motor becomes activated.
- 2. The calibration has been performed while the printer automatically feed label stock for certain length.

Note: This step is very important and must always be carried out whenever media is being changed. Failure to do so will result in miss-detection of the label sensor.

Printing Configuration Report

- 1. Keep pressing the feed button while turning on the power, until the printing motor becomes activated.
- After feeding 12-inch blank media, the printing motor will suspend for one second, then it will print out the configuration profile. This profile states the firmware version, ROM checksum, RS232, thermal transfer/direct thermal settings, hardware configuration and font types.
- 3. At PPLB emulation, the printer will enter character dump mode. To exit from dump mode, just press the feed button again.

Resetting the Printer to Factory Default Settings

- 1. Turn on the printer and wait for 5 or more seconds.
- 2. Press "Feed" button for about 10 seconds, then the "Ready" indicator and "Power" indicator will go off in order.
- 3. While two indicators become lit again, release the feed button.
- 4. At this moment, the printer will feed the label stock 12 inches in length, and come back to the factory default settings.

Note: All settings are stored in non-volatile E2PROM and cannot be destroyed even turn off the printer.



Hooking up the Printer and Computer

Note: The power supply barrel connector must be inserted into the power jack on the back of the printer before connecting the communication cables.

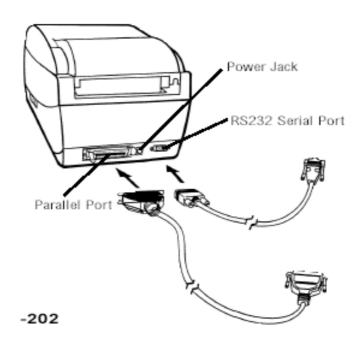
This printer comes with both a nine-pin Electronics Industries Association (EIA) RS-232 serial data interface and a standard Centronics parallel interface. In either case, you must supply the required interface cable for your application.

Note: This printer complies with FCC "Rules and Regulations", Part 15, for Class B Equipment, using fully shielded six-foot data cables. Use of longer cables or unshielded cables may increase radiated emissions above the Class B limits.

Serial (RS-232) Interface Requirements

The required cable must have a nine-pin "D" type male connector on one end, which is plugged into the mating serial port located on the back of the printer. The other end of this signal interface cable connects to a serial port at the host computer.

For technical and pinout information, please refer to the Reference Technical Information-Interface Specification on this booklet.





Parallel Interface Requirements

The required cable (IEEE 1284-compliant is recommended) must have a standard 36-pin parallel connector on one end, which is plugged into the parallel port located on the back of the printer. The other end of the parallel interface cable connects to the printer connector at the host computer. For pinout information, refer to the Reference Technical Information-Interface Specification. Serial and Parallel Cabling Requirements.

Data cables must be of fully shielded construction and fitted with metal or metalized connector shells. Shielded cables and connectors are required to prevent radiation and reception of electrical noise. To minimize electrical noise pickup in the cable:

- Keep data cables as short as possible (6 [1.83m] recommended).
- Do not tightly bundle the data cables with power cords.
- Do not tie the data cables to power wire conduits.

Notes:

- 1. Using Centronics allows for a much higher speed communication than the use of a serial.
- 2. It is not necessary to set the switch or send any command to select the parallel or serial port . The printer can automatically detect it.
- 3. The default settings can be read from the configuration report.



Communicate with the Printer

The bundled printer driver can be applied to all the applications under Windows 2000/98/95, and Windows NT. Through this driver you may run any popular software applications e.g. MS-Word and print out the contents by this label printer as long as they are for Windows.

Before installation

- 1. Check the contents of the driver to ensure it is complete.
- 2. Make a backup copy of this driver.
- 3. Read the README.TXT file for installation guide and change notices.



Installing Driver

- 1. Click the "Start" button.
- 2. Select "Settings", then select "Printers" and double click the "Add Printer" icon. Click "Next".
- 3. Click the "Network" or "Local" button and click the "Next"button.
- 4. Click "Have Disk", click the pull-down menu to select CD ROM driver path.
- 5. Click "Browse" button.
- 6. Select the proper directory for installation:
 - -WIN95
 - **-WIN98**
 - -WIN2000
 - -NT4.0
- 7. The driver name "Label Dr. 200" (or Label Dr. 300) will appear in the "List of Printers", click "Next".
- 8. Select the communication port for the label printer. For parallel port, select "LPT1:", "LPT2:" or "LPT3:", for serial port_select "COM1:" or "COM2:".
- 9. After the related files have been copied to your system, theinstallation is complete.
- 10. If you need to print from the label printer, set "Label Dr. 200" (or Label Dr. 300) as the Default Printer.



Notes:

- 1. If you are just updating your driver, make sure to delete the previous version first.
- 2. If you install a new bar code application software like ArgoBar, LabelView or CodeSoft, the Label Dr. 200 (orLabel Dr. 300) driver should be activated and set as the current printer driver:

ArgoBar

```
File \Rightarrow New \Rightarrow Select Printer \Rightarrow Label Dr. on LPT1: \Rightarrow OK
```

LabelView

```
File \Rightarrow Select Printer \Rightarrow Label Dr. on LPT1: \Rightarrow OK
```

CodeSoft

```
File \Rightarrow Printer \Rightarrow Windows \Rightarrow Label Dr. on LPT1: \Rightarrow OK
```

LabelMatrix

File \Rightarrow Printer Setup \Rightarrow Label Dr. on LPT1: \Rightarrow OK



Set the Parameters

After installing the driver, you can follow the path below to set parameters:

 $Start \Rightarrow Settings \Rightarrow Printers \Rightarrow Label Dr. \Rightarrow Properties$

The parameters include:

Ports

Select the IO port to link with the printer. The port may be one of parallel (LPT), serial (COM), net work port or file.

Paper size

Select the proper size on the menu. If there is no desired size, select "Custom" to define the paper size.

Orientation

Set portrait or landscape according to the print direction.

Paper source (Media type)

T/T stands for thermal transfer(ribbon) mode and D/T for direct thermal mode (without ribbon).

Media choice (Darkness)

Set the heat value or darkness from this field. The darkness value ranges from 0 to 15.

Copies

This function designates the number of printed copies of each page.

More option

(Accessory setting) To use the cutter and peeler function you still need to enter More Options and select one of the items.

Device options (Speed)

Set the print speed. For the e2 printer, the speed ranges from 1 to 3 IPS.

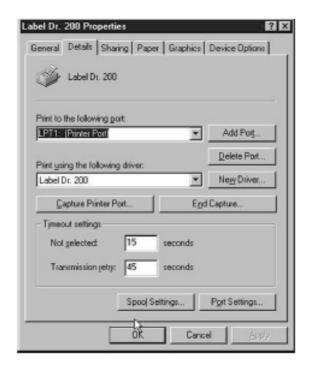


For Win 98

Ports

Properties menu

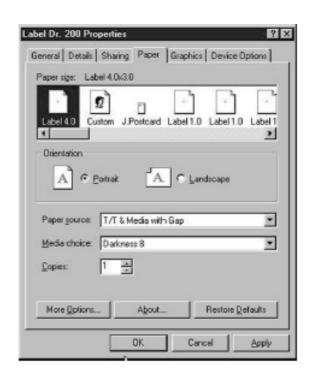
- ⇒ click "Details"
- ⇒ select the IO port
- ⇒ click "OK"



Paper size
Orientation
Paper source(Media type)
Media choice (Darkness)
Copies

Properties menu

- ⇒ click "Paper"
- ⇒ click each item to select desired parameter
- \Rightarrow click "OK".





Output bin (Accessory setting)

Properties menu

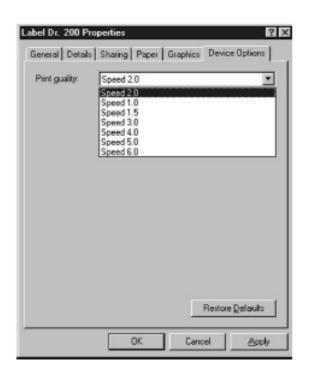
- ⇒ click "Paper"
- ⇒ click "more option"
- ⇒ select Enable/without
- ⇒ cutter, peeler
- ⇒ click "OK"



Print quality (Speed)

Properties menu

- ⇒ click "Device Options"
- ⇒ select parameters
- ⇒ click "OK"





Create a new size

Properties menu

- ⇒ click "Paper"
- ⇒ select "Custom"
- ⇒ User-Define size
- ⇒ set up a new size
- ⇒ click "OK"





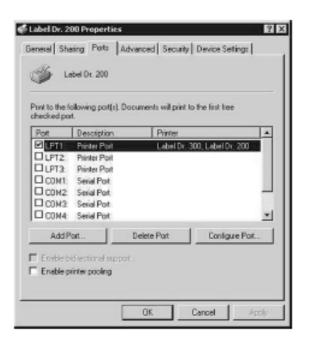


For Win 2000

Ports

Properties menu

- ⇒ click "Ports"
- \Rightarrow select the IO port
- ⇒ click "OK"



Paper source (Media type)

Back to Printers menu

- ⇒ right click to get pop-up menu
- ⇒ select "Printing Reference"
- ⇒ click "Paper Quality"
- ⇒ select media type
- ⇒ click "OK"





Orientation

Printing Reference menu

- ⇒ click "Layout"
- ⇒ select "Portrait" or "Landscape"
- ⇒ click "OK



Paper size
Copies
Media choice
(Accessory setting)
Paper/Output
(Speed)
Print quality
(Darkness)

Printing Reference menu

- ⇒ click "Layout"
- ⇒ click "Advanced"button
- ⇒ click each item to select the parameters
- ⇒ click "OK"





Create a new size

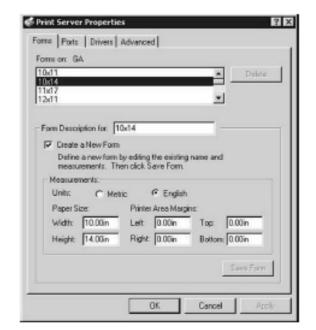
Printer menu

- ⇒ right click to get popup menu
- ⇒ select "Server Properties"
- ⇒ enter a form name for the new form in "Form description for"
- ⇒ reset the paper size in the specific squares of the "Measurements"

=

⇒ click "OK"





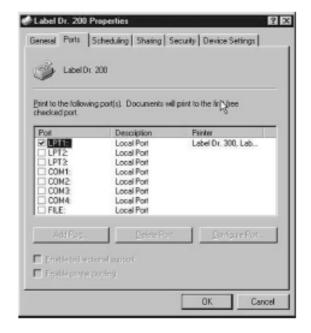


For Win NT4.0

Ports

Properties menu

- ⇒ click "Ports"
- ⇒ select the IO port
- ⇒ click "OK"



Paper size
Orientation
Paper source
(Media type)
Copies
Media choice
(Accessory setting)

Printers menu

- r⇒ ight click to get pop-up menu
- ⇒ select "Document Defaults"
- ⇒ click "Advanced" button
- ⇒ click each item to select desired parameter





Paper/Output (Speed) Print quality (Darkness)

Default Document menu

- ⇒ click "Advanced"
- ⇒ click each item to
- ⇒ select desired parameter click "OK"

Create a new size
Please refer to the procedure of create
a new size on Win 2000.





Troubleshooting

Normally, when the printer is in abnormal condition, the "POWER" LED will keep blinking. The printing work and the communication between the host and printer will stop.

To understand the problem, please check both LEDs first:

A. Power and Ready LEDs blink at the same tempo

Power LED	Ready LED
ON	ON
OFF	OFF

Possible Problems	Solutions	Remarks
Miss-detect the gap	. Check the label path . Check the label sensor	If you are using continuous label roll and run under Windows, you should select the continuous media.
Label stock out	. Supply the label roll	
Label stock not installed	. Install the label roll	
Label jam	. Recover the jam	



B. Power and Ready LEDs blink alternately

Power LED	Ready LED
ON	OFF
OFF	ON

Possible Problems	Solutions	Remarks
Ribbon out	Supply the ribbon roll	Not applicable to
Ribbon jam	Recover the jam	direct thermal type.
Ribbon sensor error	Replace the ribbon sensor	

C. Only the Power LED blinks

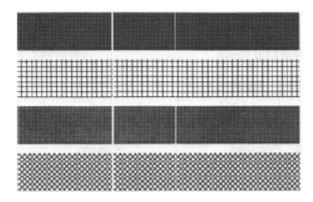
Power LED	Ready LED
ON	ON
OFF	ON

Possible Problems	Solutions	Remarks
Serial IO error	. Check the baud rate	Not for Centronics
Memory full	Add the extension RAM	
Cutter failed, or jam at cutter	. Check the cutter . Recover the jam	It occurred, only when cutter is installed, or the setting of the cutter is in error.
Hardware error	Call for service	



D. Miscellaneous

- The host shows "Printer Time out"
 - 1. Check if the communication cable(parallel or serial) is connected securely to your parallel or serial port on the PC and to the connector on the printer at the other end.
 - 2. Check if the printer pow er is turned on.
- If the power cord is connected, the power switch is at position "I" and the power LED has still not illuminated, check the fuse inside the power adapter case.
- The data has been sent, but there is no output from the printer. Check the active printer driver, if Label Dr. for your Windowssystem and the label printer has been selected.
- Vertical streaks in the printout usually indicate a dirty or faulty print head.(Refer to the following example)



Clean the print head first, if they still persist, replace the print head.



- Poor printout quality.
 - . The ribbon may not be qualified.
 - . The media may not be qualified.
 - . Adjust the Darkness(heat temperature).
 - . Slow down the print speed.
 - . Refer to the next chapter and clean the related spare parts.

Recovery

To continue your print jobs after the abnormal conditions have been corrected, simply press the panel button or restart the printer. Make sure that the LED is not blinking and remember to resend your files.



Caring for Your Printer

Clean the following areas of the printer after 8 rolls of label stocks have been used. In each case, use a cotton bud dampened with alcohol. Do not soak the cotton bud excessively.

Note: Always switch off the power before cleaning.

Cleaning

Thermal Print Head

Thermal paper stock and ribbon will release debris on the print head and degrade printing quality. Clean the print head with methanol or isopropyl alcohol with a cotton bud. Do not touch the heater element with your fingers. Debris or dirt on the roller should be cleaned with alcohol.

Paper Sensor

Debris or dirt on the paper sensor will cause a miss-read or unstable detection of the label gap. Clean with a cotton bud dampened with alcohol.

Replacing Thermal Print Head

- 1. Switch off the power and wait for both LEDs to go off.
- 2. Unlatch the print head module.
- 3. Remove the ribbon.
- 4. Push the print head firmly into the casing and shift it to the left. It will release from the module.
- 5. Disconnect the print head cable.
- 6. Dissemble the print head and the mounting bracket by releasing screws.
- 7. Replace with new print head, then resemble the print head module in reverse order. Be careful not to touch the print head elements.



Reference Technical Information

Print Method Dircet thermal and thermal transfer

Resolution 203 DPI (8dots/mm)

Maximum print width 4.13 in (105mm)

Maximum print length 45 in (1143mm)

Maximum print speed 2 in. (51mm) per sec.

Onboard RAM 512kB

Rotation 0°, 90°, 180° and 270°, 4 direction rotations

Media type: I. Direct thermal:

paper or vinyl, vinyl, visible light and infrared scannable

label, tag stock, butt cut or die cut, with various

adhesives.

II. All above media,

plus thermal transfer paper or vinyl labels and tags, butt

cut or die cut, with various adhesives.

Max. label roll diameter 4.3 in.(109mm) outside diameter, 1 in.(25 mm) inside

diameter

Label indexing Black stripe and gap

Ribbon types Wax, Wax/Resin and Resin

Ribbon size OD 1.45 in. (37 mm); ID 0.5 in. (12.7mm); Length11

Dimension W7.3 x D10.9 x H6.0 in.



Weight 1.7 kg (3.74 lbs)

Electrical FCC class B

19Vac

Or DC24V (min 2.5A), 50/60Hz

CE, UL and CUL approved.

Operating temperature 40°F ~100°F (4°C~38°C)

Storage temperature 40°F~140°F (4°C~60°C)

Humidity 15~85% RH



Printer Programming Language A, PPLA

Fonts, Bar Codes and Graphics Specification

The specifications of fonts, bar codes and graphics depend on the printer emulation. The emulation is a printer programming language, through which the host can communicate with your printer.

General fonts 7 alpha-numeric fonts, OCR A and OCR B ASD

Smooth fonts 6, 8, 10, 12, 14 and 18 points

Courier fonts 8 symbol set (PC,PC-A,PC-B, EAMA-94, Roman8,

Legal, (Greek and Russian)

Soft fonts Downloadable PCL fonts

Bar code types Code 39, Code 93, Code 128/subset A,B,C,Codabar,

Interleave 2 of 5, UPC A/E/2 and 5add-on, EAN-8/13, UCC/EAN-128, Postnet, Plessey, HBIC, Telepen and FIM.

MaxiCode and PDF417 (2D symbologies).

Graphics PCX, BMP, IMG and HEX formats



3. Interface Specifications

Serial

The RS232 connector on the printer side is a female, DB-9.



Note: Pin 9 is reserved for KDU (keyboard device unit), therefore do not connect these pins if you are using a general host like a PC.

Connection with host:

Host 25S	Printer 9P	Host 9S	Printer 9P			
(PC or comp	oatible)	(PC or con	(PC or compatible)			
DTR 20	1 DSR	DTR 4	1 DSR			
DSR 6	6 DTR	DSR 6	6 DTR			
TX 2	2 RX	TX 3	2 RX			
RX 3	3 TX	RX 2	3 TX			
CTS 5	7 RTS	CTS 8	7 RTS			
RTS 4	8 CTR	RTS 7	8 CTS			



Alternatively you can just connect the 3 wires in the following way.

Host 25S	Printer 9P	Host 9S	Printer 9P			
(PC or com	patible)	(PC or con	(PC or compatible)			
TX 2	2 RX	TX 3	2 RX			
RX 3	3 TX	RX 2	3 TX			
GND 7	5 GND	GND 5	5 GND			
pin 4	1	pin 4 —	_			
pin 5	J	pin 6 📥				
pin 6 —	7	pin 7	\neg			
pin 20	J	pin 8	_			



The most simple way to connect to other hosts(not PC compatible) or terminals is:

Pin	Direction	Definition
1	In	DSR
2	In	RxData
3	Out	TxData
5	-	Ground
6	Out	DTR
7	Out	RTS
8	In	CTS
9	Out	+5V

In general, as long as the data quantity is not too large and you use Xon/Xoff as flow control, it will be problem free.

Baud rate: 2400, 4800, 9600, 19200 and 38400.

(programmable by command)

Data format: always 8 data bits, 1 start bit and 1 stop bit.

Parity: always non parity

Handshaking: XON/XOFF as well as CTS/RTS (hardware flow control).

If you run an application with the bundled printer driver under Windows and use the serial port, you should check the above parameters and set the flow control to "Xon/Xoff "or "hardware".



Parallel (Centronics)

The parallel port is a standard 36-pin Centronics. Its pin assignments are listed as following.

Pin	Direction	Definition	Pin	Direction	Definition
1	In	/STROBE	13	Out	SELECT
2	In	Data1	14,15		NC
3	In	Data 2	16	1	Ground
4	In	Data3	17	-	Ground
5	In	Data4	18NC		
6	In	Data5	19~30	-	Ground
7	In	Data6	31		NC
8	In	Data7	32	Out	/Fault
9	In	Data8	33~36	-	NC
10	Out	/ACK			
11	Out	BUSY			
12	Out	PE			

Auto Polling

Both the serial port and parallel port of this printer can be activated at the same time, i.e the printer can simultaneously communicate with two PC via different port. However as no port contention is made for this printer, If both PC transmit data at the same time to this printer, the data may become damaged in the receiving buffer.



ASCII TABLE

	0	1	2	3	4	5	6	7
0	NUL		0	@	Р		-	Р
1	SON	XON	!	1	Α	Q	а	q
2	STX		"	2	В	R	b	r
3		XOFF	#	3	С	Ø	С	s
4			\$	4	D	Т	d	t
5		NAK	%	5	Е	\supset	Φ	u
6	ACK		&	6	F	>	f	٧
7	BEL		•	7	G	8	g	W
8	BS		(8	Н	Χ	h	Х
9)	9	_	Υ	-	У
Α	LF		*	:	J	Z	j	Z
В		ESC	+	,	K	[k	{
С	FF		,	٧	L	\	1	- 1
D	CR		-	=	М]	m	}
Е	SO	RS		>	N	٨	n	~
F	SI	US	1	?	0	-	0	DEL

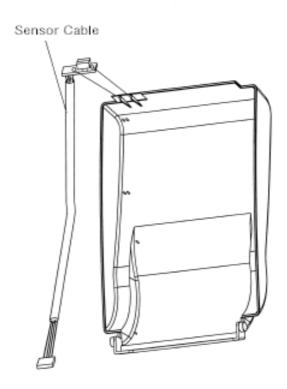


Appendix | - Installing Dispenser Kit

- 1. Turn off the printer power and unplug the printer.
- 2. Unwrap the PC bag of dispenser kit to take out the screw, the shaft, the plastic roller, the dispenser bar, the direction label and the peelersensor cable.

Top Cover

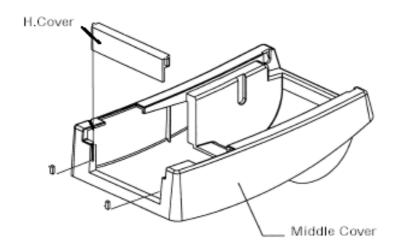
- 3. Take off the top cover of the printer.
- 4. The peeler sensor cable has a sensor board at one end and a connector at the other end.
- 5. Mount the two little holes of the sensor board on the two spines at left upper corner inside the top cover, keeping the cable at the left.
- 6. Route the peeler sensor cable through the guides along the left side of the top cover.
- 7. Fix the sensor cable and sensor board with Loctite-444 instant adhesive or equivalent.

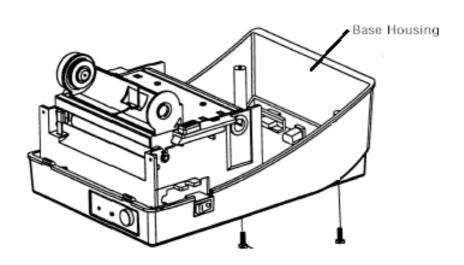




Middle Cover

- 8. Release the two screws at the bottom of the base housing.
- 9. Remove the middle cover.
- 10. Take off the H Cover.
- 11. Tape the direction label on the top of the H cover with the arrow sign heading toward the opposite of you.

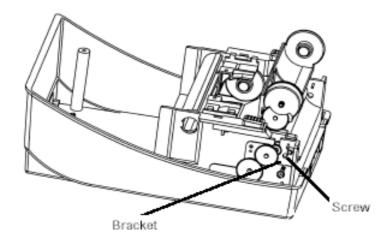




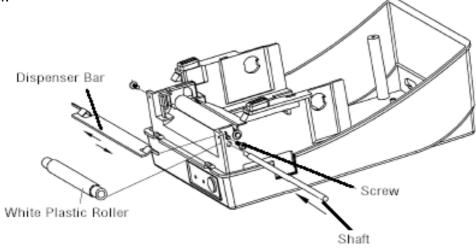


Base Housing

13. Release the screw on the left bracket of the chassis.

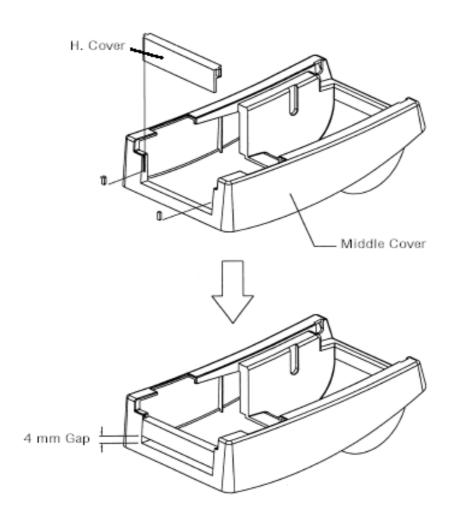


- 14. Unlatch the print head module. Hook the white roller on the brackets of the chassis, ensuring the long thinner end at the left side.
- 15. Guide the shaft go through the respective holes on the left bracket, the white roller, and the right bracket in order. (To smooth this procedure, better hold the white roller with one hand.)
- 16. Secure the attached screw at right bracket of the chassis to fix the shaft.
- 17. Hook the dispenser bar on the brackets of the chassis, positioning it above the white roller. Ensure that the dispenser bar is paralleled with the black platen roller and it's long thinner end is at the left.
- 18. Secure back the screw on the left bracket of the chassis.
- 19. Guide the sensor cable connector through the hole on the upper left corner of middle cover.





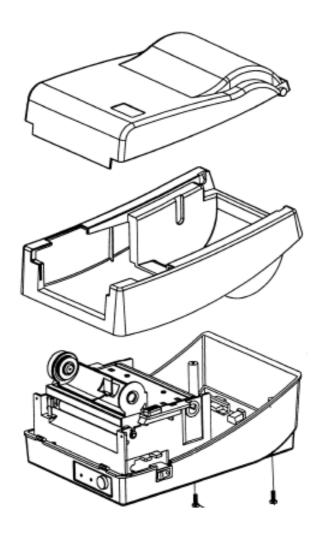
- 19. Click the top cover back to the middle cover.
- 20. Insert the sensor connector into its receptacle on the main logic board of the base housing.
- 21. Click the middle cover back to the base housing. First click in the front part then the rear.
- 22. Secure the two screws at the bottom of the base housing.





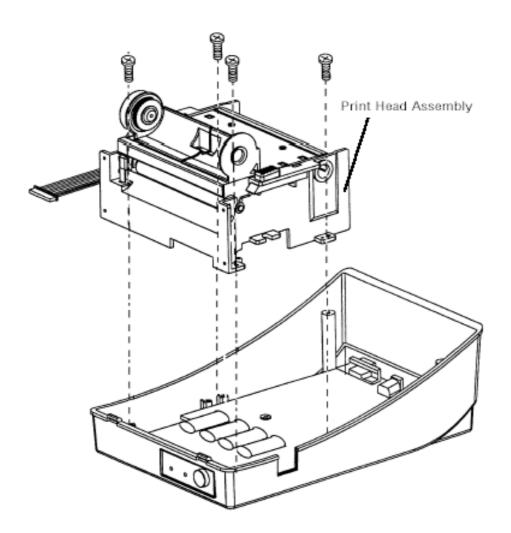
Appendix || - Installing the Cutter

- 1. Turn off the printer power, unplug the power cable and Centronics / Serial cable.
- 2. Remove the top cover.
- 3. Remove two screws at base housing.



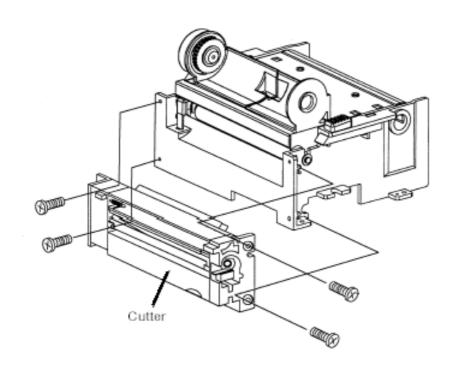


4. Remove the whole print head assembly by releasing 4 screws at its feet.





- 5. Add a driver IC to U19 on the main board.
- 6. Secure four attached screws for the cutter.



- 7. Plug the cutter's connector into the PCB's header connector (JP13).
- 8. Reinstate the print head assembly by securing back the 4 screws.
- 9. Click back the middle cover.
- 10. Secure two screws back at base housing.
- 11. Click back the top cover.