Century Falcon4 User Manual

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FCC COMPLIANCE STATEMENT FOR AMERICAN USERS

This equipment has been tested and found to comply with the limits for a CLASS A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

EMS AND EMI COMPLIANCE STATEMENT FOR EUROPEAN USERS

This equipment has been tested and passed with the requirements relating to electromagnetic compatibility based on the standards EN50081-1 (EN55022 CLASS A) and EN61000-4-2/-3/-4/-5/-6/-8/-11 (IEC Teil 2,3,4). The equipment also tested and passed in accordance with the European Standard EN55022 for the both Radiated and Conducted emissions limits.

CAUTION

Danger of explosion if battery is incorrectly replaced Replace only with the equivalent type recommended by the manufacture. Dispose of used batteries according to the manufacturer's instructions.

Specifications are subject to change without notice.

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1-1. Introduction

The Century Falcon4 is a heavy duty, high performance thermal transfer / direct thermal label printer suitable for large volume printing requirements in industrial applications. With robust metal outer casing and inner mechanism, the Falcon4 is designed to be durable, tough and reliable, even in the harshest environments. Its features are as follows:

- Print head density of 8 dots or 12dots per mm (203 or 300 dots per inch).
- Back light LCD display showing graphics and messages in English and simplified Chinese (version dependent).
- Internal memory card for label, graphics, and fonts download.
- ◆ Real Time Clock for time recording and tracking.
- ◆ Internal 8" label roll capacity and 450M ribbon length (1" core size).
- ♦ Maximum 50" print length.
- Optional stripper and internal rewinder for efficient operation.
- Optional cutter for ticketing or receipt printing applications.

1-2. Printer Options



1-3. Printer Accessories

After unpacking, please check the accessories that come with the package, and store appropriately.

1.	Barcode printer	2.	Power cable (110V or 230V)	3.	Quick Start Guide
4.	Empty Ribbon Roll		CD (includes Software/Manual/Driver/DLL)		

1-4. General Specifications

Model	Falcon4
Resolution	203 dpi (8 dot/mm)
Print Mode	Thermal Transfer / Direct Thermal
CPU	16 Bit
Sensor Location	Moveable, left aligned
Sensor Type	Reflective, Transmissive
7.	Type: Label gap and black mark sensing.
Sensor Detection	Detection: Label length auto sensing and / or program command setting
Print Speed	50.8mm (2")/sec ~ 152.4mm (6")/sec
Print Length	1270mm (50")
Print Width	25mm (1") ~ 104 mm (4.09")
	Label Roll: Max. 203mm (8")
Media	Core Diameter: 38.1 mm (1.5")~ 76.2 mm (3")
IVIEGIA	Width: 25.0 mm (1") ~ 118.0 mm (4.65")
	Thickness: 0.06~0.25mm (0.002" to 0.009")
	Material: Transfer ribbons (wax, hybrid, and resin)
	Type: Ink inside or ink outside Length: 450M (1471 ft)
Ribbon	Width: 30mm ~ 110 mm (1.18" to 4.33").
	Inner Core Diameter: 25.4 mm (1").
	Ribbon Roll Diameter: 75 mm (2.95").
Printer Language	EZPL (downloadable)
Software	Application: QLabel-III
Software	DLL & Driver: Microsoft Windows 95, 98, Me, NT 4.0, 2000 and XP
	9 resident alphanumeric fonts (included OCR A & B) those are expandable (8 times for EZPL)
Resident Fonts	horizontally and vertically. All fonts in 4 directions rotation (0, 90, 180, 270 degrees),
	6,8,10,12,14,18,24,30 points.
Fonts Download	Windows Bit-map fonts and Asian fonts downloadable. All fonts in 4 directions rotation (0, 90,
Image Handling	180, 270 degrees). Asian fonts in 8 directions rotation. BMP, PCX, Support ICO, WMF, JPG, EMF file through software.
illiage Hallulling	Code 39, Code 93, Code 128 (subset A,B,C), UCC 128, UPC A / E (add on 2 & 5), I 2 of 5, EAN
Barcode	8 / 13 (add on 2 & 5), Codabar, Post NET, EAN 128, DUN 14, MaxiCode, PDF417 & Datamatrix
24.0040	Code
Interface	Serial, Parallel, USB, PS2 keyboard wedge
Interface	Baud rate 300 ~ 38400, XON/XOFF, DSR/DTR
Transmission Speed	
Memory	Standard: 2MB Flash, 2MB DRAM
	Optional: 2MB Flash
LCD Display	Back-light Graphic LCD Display Three bi-color LED lamps: Power, Ready, Error
LOD DISPIRAY	Three Front Panel Keys: Feed, Pause, Cancel
Power	100/110/240VAC, 50/60 Hz – Auto Switching
Real Time Clock	Time and date stamp
	Operation: 40°F to 104°F (5°C to 40°C)
Environment	Storage: -40°F to 122°F (-20°C to 50°C)
Humidity	Operation: 30-85%, non-condensing. Free air.
	Storage: 10-90%, non-condensing. Free air.
Cert. Approval	CE, CUL, FCC Class A
	Length: 454.58 mm (17.9")
Printer Dimension	Height: 277.30 mm (10.92")
	Width: 275.55 mm (10.85") Weight: 13 Kg
	Cutter
	Stripper with Internal Rewinder
Options	2MB Flash memory module
=	Stand-alone keyboard (KP-180)
	QR code

Specifications are subject to change without notice.

1-5. Communication Interface

Parallel Interface

Handshake : DSTB connects to the printer, BUSY connects to the host

Interface cable : Parallel cable compatible to IBM PC

Pin out : See below

PIN NO.	FUNCTION	TRANSMITTER
1	Strobe	host
2-9	Data 0-7	host
10	Acknowledge	printer
11	Busy	printer
12	Paper empty	printer
13	Select	printer
14-16	N/C	
17	Chassis Ground	
18	N/C	
19-30	Signal Ground	
31	N/C	host
32	Fault	printer
33	Signal	ground
34-36	N/C	

Serial Interface

Serial Default

Setting

: 9600 baud rate、no parity、8 data bits、1 stop bit、XON/XOFF protocol 及RTS/CTS。

Connector Type: DB9 female, pin assignment is as follows:

PIN NO.	1	2	3	4	5	6	7	8	9
FUNCTION	+5 V	TXD	RXD	N/C	GND	N/C	CTS	RTS	N/C

Serial interface from PC to printer

Scharintenase from 1 S to printer							
PC(DTE)				Falcon4(DCE)			
	1		1	+5V			
RXD	2		2	TXD			
TXD	3		3	RXD			
DTR	4		4	N/C			
GND	5		5	GND			
DSR	6		6	N/C			
RTS	7		7	CTS			
CTS	8		8	RTS			
	9		9	N/C			

USB Interface

Connector Type : Type B

PIN NO.	1	2	3	4
FUNCTION	USBVCC	D-	D+	GND

PS2 Interface

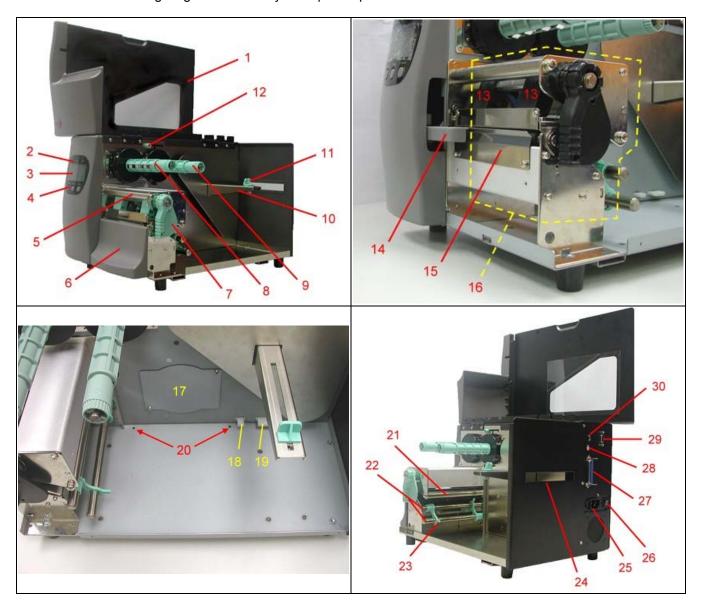
PIN NO.	1	2	3	4	5	6
FUNCTION	DATA	N/C	GND	VCC	CLOCK	N/C

PS2 interface from PC to printer

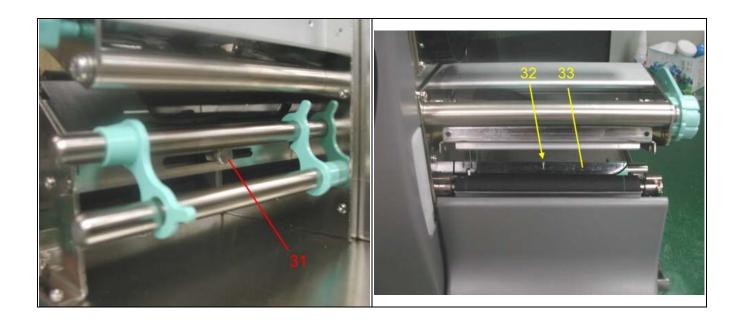
PC				Falcon4	
DATA	1		1	DATA	
N/C	2		2	N/C	
GND	3		3	GND	
VCC	4		4	VCC	
CLOCK	5		5	CLOCK	
N/C	6		6	N/C	

1-6. Printer Parts

Please use the following diagrams to identify each printer part.



1	Top Cover	11	Label Width Guide	21	Ribbon Feed Rod
2	Indicator Light	12	Ink Position Lever	22	Label Feed Rods
3	LCD Display	13	Print Head Spring Box	23	Label Feed Guide
4	Control Key	14	Stripper Sensor	24	Fan-Fold Label Insert
5	Ribbon Rod	15	Tear Off Bar	25	Power Socket
6	Bottom Front Cover	16	Printer Mechanism	26	Power Switch
7	Print Head Lever	17	Rewinder Option Cover Plate	27	Parallel Port
8	Ribbon Rewind Shaft	18	Rewinder Connector	28	USB Port
9	Ribbon Supply Shaft	19	Cutter Connector	29	Serial Port
10	Label Roll Bar	20	Cable Configuration holes	30	PS2 Port



31	Moveable Sensor Lever	32	Sensor Position Mark	33	Moveable Sensor
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Chapter 2. Printer Installation

This printer model has the following print modes:

Thermal Transfer (TT):	When printing, ribbon must be installed to transfer the print contents onto the media
Direct Thermal (DT):	When printing, no ribbon is necessary; it only requires direct thermal media.

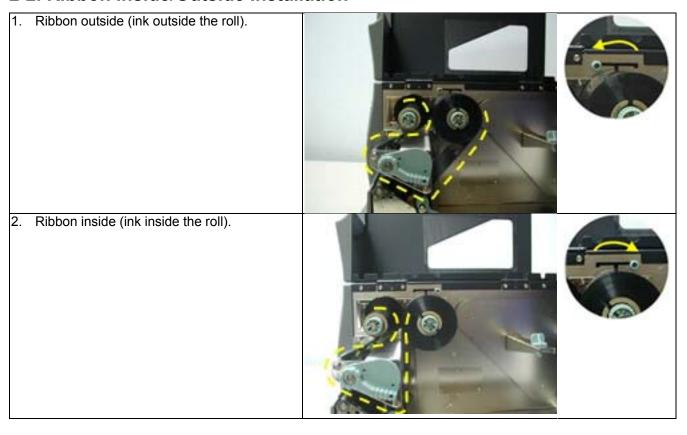
Please check the specific print mode, then go into the Setting Mode after power on the printer.

2-1. Ribbon Installation

2-	1. Ribbon Installation	
1.	Place the printer onto a smooth surface, and open the top cover.	
2.	Pull the Print Head Lever out and flip it upward to the right.	
3.	Take the used ribbon out of the ribbon supply shaft.	
4.	Place the new ribbon roll onto the ribbon supply shaft.	
5.	Place the empty ribbon roll onto the ribbon rewind shaft.	
No	Feed the ribbon from the Ribbon Supply Shaft Rod under the Print Head. te: DO NOT feed the ribbon under the veable sensor.	

7. Wrap the ribbon around the Ribbon Shaft Rod and stick the ribbon onto the empty ribbon roll.
Note: make sure the ribbon rewind direction is correct.
8. Flip the Print Head Lever back to its original position.
9. Close the top cover to complete the ribbon installation.

2-2. Ribbon Inside/Outside Installation

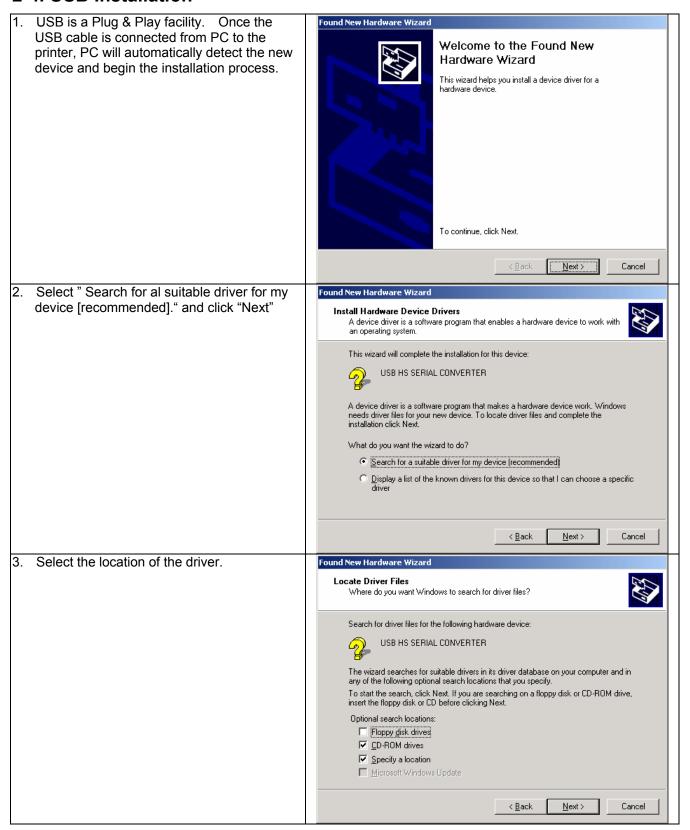


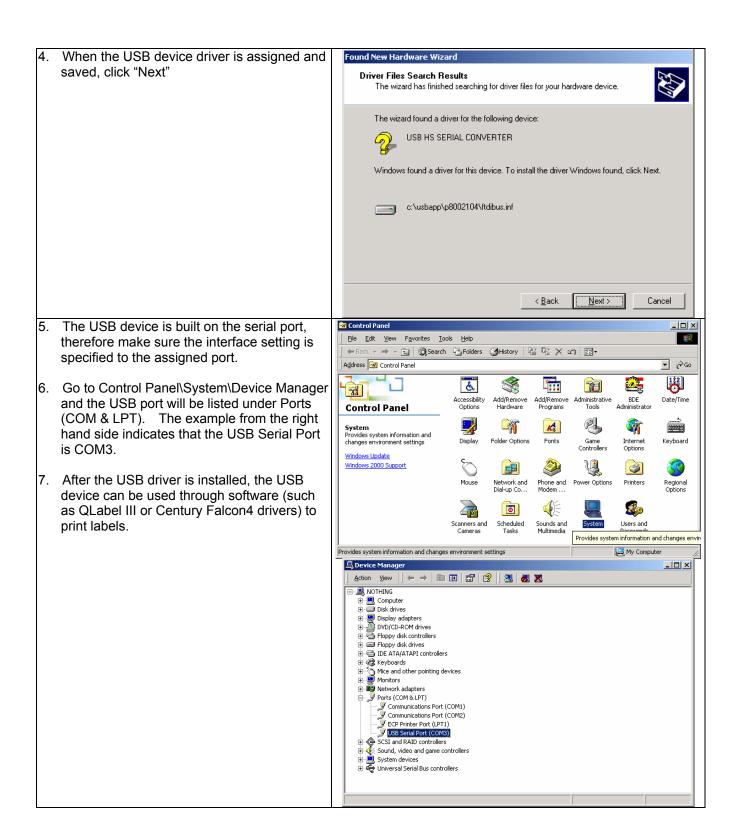
2-3. Label Installation

1. Place the printer onto a smooth surface, and open the top cover. 2. Place the label roll onto the Label Roll Bar, and align the label to printer's inner wall. Align the label roll with the Label Width Guide. Avoid pushing the guide too far in to damage the label edge. 4. Pull the Print Head Lever out and flip it upward to the right. 5. Flip the Label Feed Guide upward.

6.	Feed the label through the two Label Feed Rods (under the moveable sensor) to the Tear-off Bar.	
7.	Align the label edge inward, and adjust the Label Feed Guide with the label.	
8.	Flip the Label Feed Guide back down to its original position, and clip the guide in position.	
9.	Flip the Print Head Lever back to its original position.	
10.	Close the top cover to complete the label installation.	

2-4. USB Installation





2-5. USB Uninstallation

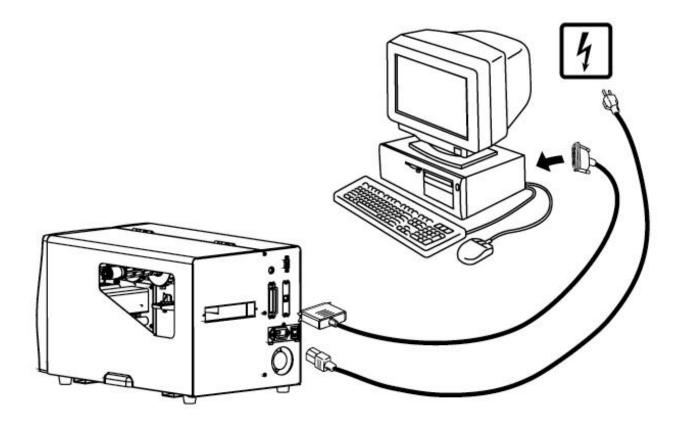
To remove the USB driver, open "USB Driver" folder and execute the "Ftdiunin" program, the message box on the right hand side will appear. Click "Continue" to remove the USB driver.



2-6. PC Connection

- Please make sure the printer is powered off.
 Take the power cable, plug the cable switch to the power socket, and then connect the other end of the cable to the printer power socket.
- 3. Connect the cable to the parallel port on the printer and on the PC.
- 4. Power on the PC. LCD display would show the printer model and F/W version.

[Remark]: If you wish to connect with an USB interface, please install the USB driver first.



Chapter 3

3-1. Stripper and Internal Rewinder Parts

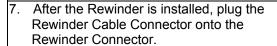


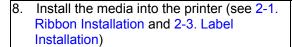
31	Bottom Cover Screw	32	Liner Rewind Shaft	33	U Shape Clip
34	Max. Liner Rewind Sensor	35	Rewinder Cable Connector	36	Screws

3-2. Stripper and Rewinder Installation

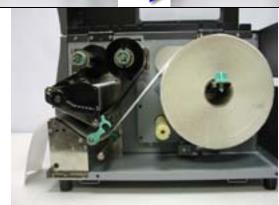
Face the printer front, and unscrew the Bottom Cover Screw.
 Remove the Bottom Front Cover.
 Open the Top Cover of the printer, and turn the printer sideways.
 Remove the Rewinder Option Cover Plate.

- Install the Rewinder unit.
- Take off the U Shape Clip from the Liner Rewind Shaft, and then screw the Rewinder unit onto the printer.





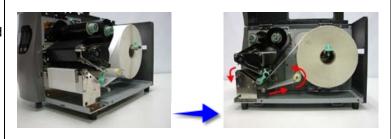




- Peel off a few labels from the liner (about 400mm of liner), then feed the liner through the Printer Mechanism and around the Label Feed Guide.
- 10. Wrap the liner around the Liner Rewinder Shaft, and use the U Shape Clip to secure the liner.

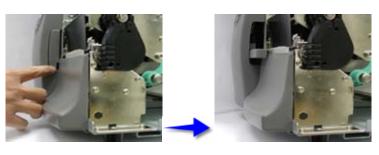
Note: make sure the liner rewind direction.

11. Screw the Bottom Front Cover back onto the printer.





- 12. Press lower part of the Stripper Sensor to flip it open.
- 13. Flip the Stripper Sensor to the sensor detect position, then close the Top Cover.
- 14. When the liner rewinds to about 110mm in diameter, the liner roll will touch the Max. Liner Rewind Sensor and the printer will stop printing until liner has been removed from the printer.



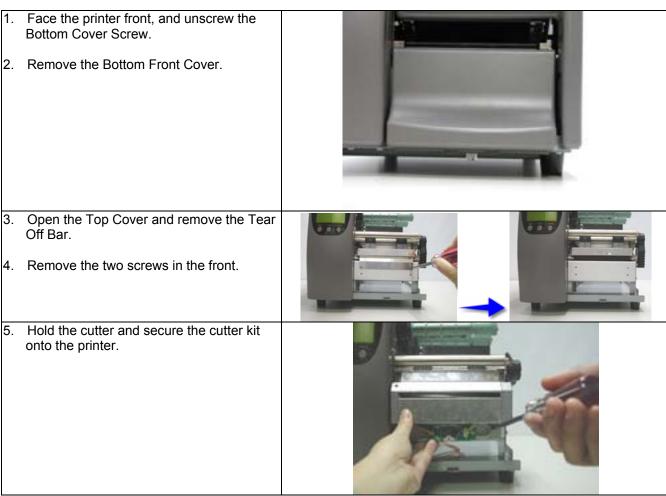
Note: make sure the printer is set to have the stripper function on.

3-3. Cutter Parts



-		
	37	Cutter Cover
	38	Cutter
	39	Cutter Cable Connector
	40	Screws

3-4. Cutter Installation



6.	Cutter Connector.	
7.	Tie the cables with the secure locks, and fix the locks into the Cable Configuration Holes.	
8. 9. <i>No</i>		

Chapter 4. Control Panel

4-1. LCD/LED Messages

LCD	LED Light		Веер	Description		
Message Display	Power	Ready	Error	peeh	Description	
EZ-XXXX Vx.xxx	Green	Green		1	EZ-XXXX: printer model; Vx.xxx: current F/W version	
Self Test	Green	Green		3	Printer is in Self-Test Mode. Please refer to page 22 for more information.	
Now in Dump Mode	Green	Green		3	Printer is in Dump Mode. Please refer to page 22 for more information.	
Auto Sensing mode	Green			3	Printer is in Auto Sensing Mode. Please refer to page 23 for more information.	
EZ-XXXX Pause	Green	Green			Printer has paused, press Pause key again to continue printing.	
Print job is cancelled	Green	Green			Cancel key pressed, stopping all the print jobs and clear the printer data.	
Press feed key to continue print job	Green		Red		Press the Feed key to allow printer to continue with the existing actions.	
PROGRAM LOADING	Green		Red (Flash)		Printer is downloading the firmware.	
LOADING COMPLETE	Green	Green		1	Firmware has been successfully downloaded.	
Setting Mode	Green	Green		1	Printer is currently in the Setting Mode. Please refer to page 24 for more information.	

4-2. General Operation

Pause Key

When pressing the Pause key in standby mode, the printer will go into the Pause Mode, and LCD Display will indicate "EZ-xxxx Vx.xxx Pause." At this time, printer won't be able to receive any command; but when pressing the Pause key once again, the printer will get out of the Pause mode and go back to standby.

Pressing the Pause key while printing, printer will pause the print job, when the Pause key is pressed one more time, the printer will continue with the rest of the print job. For example, if the print job contains 10 labels, press the Pause key after 2 labels are printed to stop printing; when pressing the Pause key again, printer will finish printing the remaining 8 labels.

Cancel Key

When pressing the Cancel key while printing, the LCD Display will show "xxxxxxxx Cancel," this means the printer cancels the current print job. For example, if the print job contains 10 labels, press the Cancel key after 2 labels are printed, the remaining 8 labels won't be printed, and the printer goes back to standby.

Feed Key

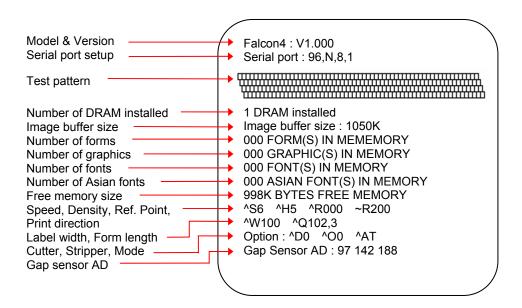
When pressing the Feed key, printer will send the media (according to media type) to the specified stop position. When printing with continuous media, when pressing the Feed key, the printer will feed media out to a certain length. When printing labels, pressing the Feed key, the printer will feed one label at a time; if the label is not sent out in a correct position, then please proceed with the Auto Sensing (see page 14).

4-3. Self-Test

The Self-Test function in a printer will help the user to troubleshoot whether the printer is operating normally. In the Self-Test Mode, the printer will print out a test sample each time when the Feed key is pressed. To stop the Self-Test procedure in the middle, simply power off the printer. Below is the Self-Test procedures:

- 1. Power off the printer, press and hold the Feed key.
- 2. Power on the printer (while still holding the Feed key), release the Feed key after hearing 3 beeps.

After about 1 second, printer would automatically print out the following, and the LCD Display would show "Self Test." This means the printer is operating normally.



Self-Test includes the internal printer data setting.

4-4. Dump Mode

When label setting and the print result don't match, it's recommended to go into the Dump Mode to check whether there's a mistake in data transmission between the printer and the PC. For example, when printer receives 8 commands, yet without processing these commands, only printed out the contents of the commands, this will confirm whether the commands were received correctly. Test procedures to enter the Dump Mode is as follows:

- 1. Power off the printer, press and hold the Feed key.
- 2. Power on the printer (while still holding the Feed key).
- 3. When LCD Display shows "DUMP MODE BEGIN," release the Feed key. Printer will automatically print "DUMP MODE BEGIN." This means the printer is already in Dump Mode.
- 4. Send commands to the printer, and check to see if the print result matches the commands sent.

[NOTE]: to cancel (get out of the Dump Mode), press the Feed key, this time printer will automatically print out "OUT OF DUMP MODE." This indicates that printer is back in the standby mode. Or power off to exit the Dump Mode.

4-5. Auto Sensing

Printer can automatically detect label (black mark paper) length and record. This way, without setting the print length, the printer can accurately detect the label (black mark) positions.

- 1. Check if the Moveable Sensor Mark is located at the right sensing position.
- 2. Power off the printer, press and hold the Pause key.
- 3. Power on the printer (while still holding the Pause key), after printer beeps 3 times and the LCD Display shows "Auto Sensing mode," release the Pause key. Printer will automatically detect the label size/length and record.
- 4. LCD Display shows the results of measurement.

Printer goes back to standby mode after displaying the measurement.

4-6. Setting Mode

In the Setting Mode, changes can be made according to requirement on the printing mode, options, media type, and parallel interface (printer can only go into setting when connected to PC by parallel cable, USB cable, or serial cable).

- 1. Install label and ribbon according to the Ribbon & Label Installation Diagram, and make sure the Ready light turns green.
- 2. Press and hold the "Pause" key, then press the "Feed" key, hold these two keys, and the LCD Display will show "Setting Mode."
- 3. Release the keys to enter the "Setting Mode," and it will show the setting items.
- 4. In the Setting Mode, the keys have the following functions:

Feed Key: Selection

Pause Key: Enter or confirm

Cancel Key: Exit

- 5. Items with the "*" sign is of option items.
- 6. Before exiting the Setting Mode, printer will prompt user whether to save the settings.

After user's response on whether or not to save the settings, printer will return to standby mode.

Printing mode :	Thermal Transfer: when printing, a ribbon must be installed to transfer the print contents onto the media. Direct Thermal: when printing, no ribbon is necessary, it only requires direct thermal media.
Option Set :	Stripper mode: turn on the stripper function Cutter mode: turn on the cutter function Option OFF: select this option to turn off the stripper and cutter functions. This is the default setting.
Paper Set :	Black Mark: for label or plain paper with black mark in the back Gap Paper: for labels with liner and gap, or hang tags. The default is set to be gap paper. Plain Paper: for plain paper
COM Port Set :	Baud Rate: 300/ 600/ 1200/ 2400/ 4800/ 9600/ 19200/ 38400 bits, default: 9600 bits Parity Set: None / Odd / Even Parity, default: None Parity Data Length: 7 / 8 bits, default: 8 bits Stop bit: 1 / 2 bits, default: 1 bit
Auto Sensing	Auto mode: auto sense the label type (black mark, gap & plain paper) and length Gap mode: detects gap paper Black mode: detects black mark label
Setting Review:	Review setting items
LCD Language	English Simplified Chinese Traditional Chinese

[NOTE]:

^{(1) &}quot;Default Setting" is the original setting from the factory, if other changes are made on the settings, then follow the new settings.

⁽²⁾ Printer will store the previous settings after power off, thus if settings are to be changed again, please enter the Setting Mode to reset.

4-7. Error Messages

LCD Display wasn't installed in position or other problems occur, printer will beep 2 times as warning, and error messages will be displayed.

LCD	LED Message Light		Dana	Description	Calution	
Message Display	Power	Ready	Error	Beep	Description	Solution
Print Head is opened	Green		Red	4 beeps twice	Thermal Print Head not firmly in place.	Re-open Thermal Print Head and make sure it closes tightly.
Entering the Cooling Process	Green		Red		Thermal Print Head temperature high.	Printer goes back to standby mode after cooling.
Out of ribbon or check ribbon	Green	Re	Red	3 beeps	Ribbon not installed, and printer shows error message.	Make sure the printer is in the Direct Thermal mode.
sensor				twice	Ribbons used up or ribbon supply shaft not moving.	Replace with new ribbon roll.
Out of media or check media gap	Green		Red	2 beeps twice	Unable to detect paper.	Make sure the movable sensor mark is at the correct position, if the sensor is still unable to detect paper, then go through Auto Sensing again.
sensor					Label used up or label sensor can't detect paper.	Replace with new label roll. When label sensor can't detect paper, please perform Auto Sensing.
Check paper setting	Green		Red	2 beeps twice	Abnormal paper feed.	Possible causes: card tags, paper falling into the gap behind the platen roller, can't find label gap/black mark, black mark paper out. Please adjust according to actual usage.
Command is not recognized	Green		Red	2 beeps twice	Wrong command	Check printer commands, possible value missing or errors.
Memory is full	Green		Red	2 beeps twice	Memory is full	Delete unnecessary data in the memory or have memory expansion (options)
Filename can not be found	Green		Red	2 beeps twice	Can't find the file	Use "~X4" command to print out all the files, then check whether the file exist and the names are correct.
Filename is repeated	Green		Red	2 beeps twice	File name is repeated	Change the file name and download again.

Chapter 5. Maintenance and Adjustment

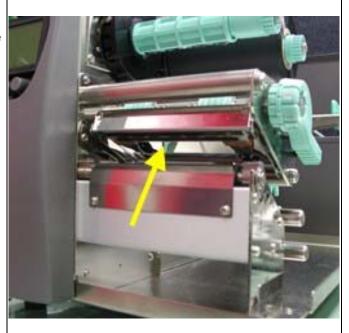
5-1. Thermal Print Head Cleaning

Unclear printouts (some parts unable to print) may be caused by dusty print head, ribbon stain, or label liner glue, therefore when printing, it's necessary to keep the top cover closed. Also, check and prevent paper/label from being stained or dusty to ensure print quality and to prolong the print head life. Print head cleaning instructions are as follows:

- Open top cover.
- 2. Take out the ribbon.
- 3. Open the print head by lifting the Print Head Lever.
- 4. If on the print head (see yellow arrow) there's label pieces or other stain, please use a soft cloth with industrial use alcohol to wipe away the stain.

Note:

(1) Weekly cleaning on the print head is recommended.(2) When cleaning the print head with soft cloth, make sure it does not have any metal or hard particles attached on it.

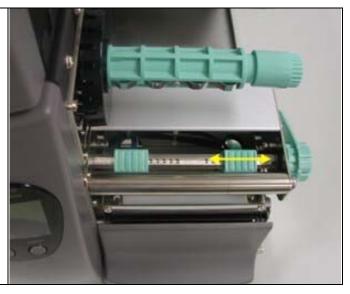


5-2. Thermal Print Head Balance Adjustment

When printing with different label materials or using different ribbon types, unbalanced print quality may occur due to the media material differences, thus it's necessary to adjust the Thermal Print Head pressure.

- 1. Open top cover.
- 2. Take out the ribbon.
- 3. Open the Thermal Print Head by lifting the Thermal Print Head Bar Handle.

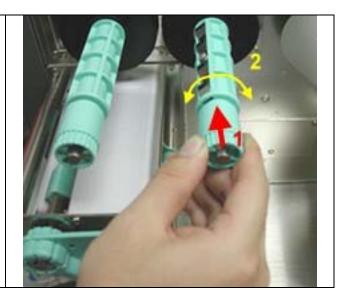
Move the Thermal Print Head Balance Box on the right side to change the print position. Normally, the wider the paper, the right Thermal Print Head Balance Box is farther to the right (out); the narrower the paper, the right Thermal Print Head Balance Box is farther to the left (in).



5-3. Ribbon Tension Adjustment

Due to differences in the ribbon material, if ribbon wrinkles occur during printing, please adjust the ribbon expansion by turning the ribbon shaft clockwise to increase the expansion.

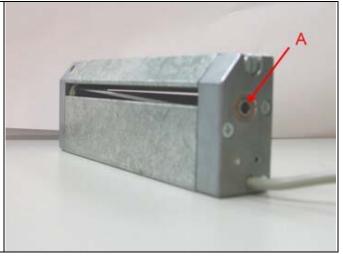
If a narrower ribbon is being used (especially ribbon width less than 2"), and printer might have problem pulling the labels. This time, please adjust the ribbon expansion by turning the ribbon shaft counterclockwise to decrease the expansion.



5-4. Cutter

- There are two holes (as marked "A")on the sides of the cutter
- When paper jams and cutter malfunctions, power off the printer. Use 3mm hexagon screwdriver to turn the cutter blade clockwise.
- 3. After the paper jam is cleared, power on the printer, and the cutter blade will go back to its original position.

Note: it is recommended to use labels with 35mm (and above) of height.



5-5. Troubleshooting

Problem	Recommended Solution
LCD Display shows no message after power on the printer	◆ Check the power cable
LED light turns red (power/status) after printing stops	 Check for software setting or program command errors Replace with suitable label or ribbon Check if label or ribbon is all out Check if label is jammed/tangled up Check if mechanism is closed (Thermal Print Head not positioned correctly) Check if sensor is blocked by paper/label Check for abnormal cutter function or of no actions (if cutter is installed)
Printing started, but nothing was printed on the label	 Check if label is placed upside down or if label is not suitable for the application Select the correct printer driver Select the correct label and print type
When printing, label is jammed/tangled up	 Clean the label jam, and if label is stuck on Thermal Print Head, please remove it by using soft cloth with alcohol.
When printing, only part of the contents were printed	 Check if label or ribbon is stuck on the Thermal Print Head Check if application software has errors Check if start position setting has errors Check if ribbon has wrinkles Check if ribbon supply shaft is creating friction with the platen roller. If the platen roller needs to be replaced, please contact your reseller for more information Check if power supply is correct
When printing, part of the label wasn't printed completely	 ◆ Check if Thermal Print Head is stained or dusted ◆ Use internal command "~T" to check Thermal Print Head can print completely ◆ Check the media quality
Printout not in desired position	 Check if sensor is covered by paper or dust Check if liner is suitable for use, please contact reseller for more information Check if label roll edge is aligned with Label Width Guide
When printing, page skipping occurs	 Check if error occurs on label height setting Check is sensor is covered by dust
Unclear printout	 Check print darkness setting Check if Thermal Print Head is covered with glue or stain
When using cutter, label wasn't cut straight	
When using cutter, label wasn't cut successfully	
When using cutter, label couldn't feed or abnormal cutting occurs	Check if cutter is installed properlyCheck if Paper Feed Rods are sticky
When using stripper, abnormal function occurs	 Check if stripper sensor is covered with dust Check if label is installed properly

Note: if further problems occur, please contact your distributor for more information.

Before Calling, please have the following information available:

- 1. Printer firmware version
- 2. Options in use with printer
- 3. PC Operating system (Windows XP, XP Home, 2000, NT4.0, NT3.0, ME, 98, 95, 3.11)
- 4. Connection type (Serial, Parallel, USB)
- 5. Label Software
- 6. Label Size and type
- 7. Ribbon type (no ribbon)
- 8. Error Type/Problem Experienced and frequency of occurance