



User Manual

TL-200 Label & Barcode Printer



## Important Safety Instructions (English)

Read the following instructions thoroughly before starting up your printer.

- Never carry out maintenance or repair work yourself. Always contact a qualified service technician.
- Keep this user guide in a place which is easily accessible at all times.
- Place the printer on a solid and even base so that it cannot fall.
- Never place the printer in the vicinity of inflammable gas or explosive substances.
- Ensure the printer is connected to a socket with the correct voltage.
- Always disconnect the printer from the power before opening the device to perform maintenance work or remedy errors.
- Do not expose the printer to high temperatures, direct sunlight or dust.
- Keep all liquids away from the printer.
- Protect the printer from shock, impact and vibration.
- Make sure that both the printer and the computer is switched off before connecting the data cable.
- The print head will become very hot during printing; avoid contact with the print head after printing has finished.
- Do not perform any operation or action in any way other than those provided in this manual. When in doubt, contact your dealer or your customer support.



The device and mains-socket must at all times be easily accessible.

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## Wichtige Sicherheitshinweise (German)

Lesen Sie bitte diese Sicherheitshinweise durch, bevor Sie den Drucker in Betrieb nehmen.

- Führen Sie Wartungsarbeiten und Reparaturen keinesfalls selbst aus, sondern verständigen Sie immer einen qualifizierten Servicetechniker.
- Bewahren Sie diese Dokumentation an einem jederzeit zugänglichen Ort auf.
- Den Drucker auf stabilem und ebenem Untergrund so aufstellen, dass er nicht zu Boden fallen kann.
- Stellen Sie den Drucker keinesfalls in der Nähe von leicht entzündlichen Gasen oder explosiven Stoffen auf.
- Den Drucker nur an eine Steckdose mit der richtigen Spannung anschließen.
- Wenn Sie den Drucker vom Netz trennen wollen, den Drucker ausschalten und immer den Netzstecker an der Steckdose ziehen.
- Den Drucker weder hohen Temperaturen noch direktem Sonnenlicht und Staub aussetzen.
- Keine Flüssigkeiten mit dem Drucker in Berührung bringen.
- Den Drucker keinen Erschütterungen, Stößen oder Vibrationen aussetzen.
- Sicherstellen, dass der Drucker und der Computer ausgeschaltet sind, bevor das Datenkabel angeschlossen wird.
- Der Druckkopf wird während des Druckens heiß. Vor dem Berühren deshalb einige Zeit abkühlen lassen.
- Weichen Sie bei der Bedienung des Druckers nicht von den Anweisungen in der Dokumentation ab. Bei Unklarheiten wenden Sie sich bitte an Ihren Händler oder Ihren Kundendienst.
- Maschinenlärminformationen – Verordnung – 3.GPSGV, der höchste Schalldruckpegel beträgt 70 dB(A) oder weniger gemäß EN ISO 7779.



Das Gerät und die Netzsteckdose müssen jeder Zeit leicht zugänglich sein.

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## Consignes importantes de sécurité (French)

Lire attentivement les instructions suivantes avant de mettre l'imprimante en service.

- Ne jamais effectuer soi-même les travaux d'entretien et de réparations. Contacter toujours un dépanneur qualifié.
- Placer l'imprimante sur un support stable de façon à ce qu'elle ne puisse pas tomber.
- Ne jamais placer l'imprimante à proximité de sources de gaz aisément inflammables ou de substances explosives.
- Ne connecter l'imprimante à une prise que lorsque la tension est correcte.
- Pour déconnecter l'imprimante de l'alimentation principale, mettre l'imprimante hors tension et toujours débrancher le connecteur secteur de la prise murale.
- Ne pas exposer l'imprimante à des températures élevées, à la lumière directe du soleil ou à la poussière.
- Ne pas mettre l'imprimante en contact avec des liquides.
- Ne pas exposer l'imprimante à des chocs, impacts ou vibrations.
- S'assurer que l'imprimante et l'ordinateur sont hors tension avant de connecter le câble de données.
- La tête d'impression est brûlante pendant l'impression. C'est pourquoi laissez-la refroidir quelques instants avant d'y toucher.
- N'exécutez aucune opération ni action d'une autre manière que celle indiquée dans ce manuel. En cas de doute, veuillez contacter votre distributeur ou service après-vente.



Le dispositif et la prise principale doivent toujours être accessibles facilement.

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## Indicazioni di sicurezza importanti (Italian)

Prima di mettere in funzione la stampante, leggere attentamente le seguenti indicazioni.

- Non eseguire mai da sé gli interventi di manutenzione e riparazione, ma rivolgersi sempre a un tecnico di assistenza qualificato.
- Conservare le presenti istruzioni per l'uso in un luogo sempre accessibile.
- Collocare la stampante su una superficie stabile, per evitare che cada a terra.
- Non collocare la stampante in prossimità di gas facilmente infiammabili o di sostanze esplosive.
- Collegare la stampante a una presa di corrente con tensione adeguata.
- Per scollegare la stampante dalla rete di alimentazione, spegnere la stampante e disinserire sempre il connettore di rete dalla presa.
- Non esporre la stampante ad elevate temperature né alla luce solare diretta e alla polvere.
- Evitare il contatto della stampante con liquidi.
- Non esporre la stampante a colpi, scosse o vibrazioni.
- Verificare che la stampante e il computer siano spenti prima di collegare il cavo di trasmissione dati.
- Durante la stampa, la testina si surriscalda notevolmente. Prima di toccarla, se necessario opportuno quindi lasciarla raffreddare qualche istante.
- Non eseguire alcuna operazione o azione se non nella maniera descritta nel presente manuale. In caso di dubbio, contattare il rivenditore o dalla società incaricata dell'assistenza.



Il dispositivo e la presa di corrente devono essere sempre facilmente accessibili.

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## Instrucciones de seguridad importantes (Spanish)

Lea las siguientes instrucciones con esmero antes de poner la impresora en servicio.

- Nunca lleve a cabo trabajos de mantenimiento o reparación Ud. mismo, sino consulte a un técnico de servicio calificado.
- Guarde las presentes instrucciones de servicio en un lugar de fácil acceso en cualquier momento.
- Ponga la impresora sobre un base estable de manera que no pueda caer al suelo.
- Nunca coloque la impresora en la vecindad de gases de fácil inflamabilidad o sustancias explosivas.
- Asegure conectar la impresora sólo a un enchufe con un voltaje correcto.
- Cuando quiera desconectar la impresora de la red, apague la impresora y siempre tire la clavija de alimentación del enchufe.
- No exponga la impresora a temperaturas altas, a la luz solar directa y al polvo.
- No ponga la impresora en contacto con fluidos.
- Nunca exponga la impresora a sacudidas, choques o vibraciones.
- Asegúrese de que la impresora y el ordenador estén apagados antes de conectar el cable de datos.
- La cabeza de impresión se pone muy caliente durante la impresión. Por lo tanto, deje enfriarlo algún tiempo antes de tocarla.
- No permita que se realice cualquier operación o acción de una forma diferente a lo que se señala en el manual. En caso de duda, póngase en contacto con su comerciante o con su servicio post-venta.



El dispositivo y la toma de corriente deben estar ubicados de forma que sea fácil acceder a ellos.

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## Правила по технике безопасности. (Russian)

Прочитайте, пожалуйста, инструкцию по технике безопасности перед включением в работу принтера.

- Не выполняйте технические работы и ремонт техники самостоятельно, но сообщайте о неисправностях квалифицированным сервисным техникам.
- Данная инструкция должна быть всегда доступна каждому пользователю.
- Установите принтер на ровном и стабильном месте так, чтобы он не смог упасть на пол.
- Ни в коем случае не ставьте принтер вблизи легко воспламеняющихся газов и взрывчатых веществ.
- Включайте принтер в розетку только с соответствующим напряжением.
- Если Вы хотите отключить принтер от напряжения, сначала выключите принтер сам и затем выньте штекер из розетки.
- Берегите принтер от нагревания, от попадания на него прямых солнечных лучей и пыли.
- Не допускайте попадания жидкости на принтер.
- Нельзя подвергать принтер тряске, ударам и вибрации.
- Убедитесь, что принтер и компьютер выключены, только после этого соедините принтер с компьютером.
- Печатающая головка нагревается во время работы принтера. Поэтому подождите какое-то время, прежде чем дотронуться до нее.
- Пользуйтесь принтером так, как это написано в документации. Если у Вас возникают неясности, обращайтесь с вопросами к Вашим продавцам или в сервисный центр.



Устройство и розетка должны быть всегда легко доступны.

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## Instruções Importantes sobre Segurança (Portuguese)

Leia as instruções de segurança antes de usar a impressora.

- Consulte sempre um técnico qualificado para executar uma reparação .
- Coloque a impressora sobre uma base sólida e nivelada, para que ela não sofra quedas.
- Jamais instale a impressora nas proximidades de lugares onde haja gás inflamável ou substâncias explosivas.
- Assegure-se de conectar a impressora à tomada elétrica com a voltagem apropriada.
- Quando desligar a impressora da rede, desligue sempre a impressora e retire o cabo da tomada.
- Não exponha a impressora a temperaturas altas ou luz solar direta.
- Não aproxime substâncias líquidas da impressora.
- Proteja a impressora de choques, impactos e vibrações.
- Desligue a impressora e o computador antes de conectar o cabo da rede.
- A cabeça da impressora pode ficar muito quente . Portanto, espere algum tempo antes de tocá-la.
- Não faça nenhuma operação ou ação além das recomendadas neste manual. Em caso de dúvida, contate seu revendedor ou companhia de serviço.



A impressora e a tomada devem ser facilmente em todos os momentos acessíveis.

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## Önemli Güvenlik Talimatları (Turkish)

Lütfen, yazıcıyı işleme geçirmeden önce bu güvenlik talimatlarını bütünüyle dikkatle okuyun.

- Bakım ve tamir çalışmalarını kesinlikle ve hiçbir surette kendi başınıza yapmayın; her zaman kalifiye bir uzman servis-teknisyenine haber verin.
- Yazıcıyı, üzerinden yere düşmesi mümkün olmayacak sabit ve düz bir zemine yerleştirin.
- Yazıcıyı kesinlikle ve hiçbir surette kolayca yanabilecek gaz veya patlayıcı maddeler içeren nesnelerin yakınına koymayın.
- Yazıcı akım kablosunu sadece doğru gerilime sahip bir prize takın.
- Yazıcıyı şebeke ağından ayırmak istediğinizde, yazıcıyı kapatın ve ağ-fişini her zaman prizden çıkartın.
- Yazıcıyı ne yüksek ısı ne de doğrudan güneş ışığına ve toza mâruz kalan mekânlarda bulundurun.
- Yazıcı hiçbir sıvı maddeyle temasta olmamalıdır.
- Yazıcı hiçbir sarsıntıya, darbeye veya titreşime mâruz kalmamalıdır.
- Veri kablosu bağlanmadan önce hem yazıcının hem de bilgisayarın kapalı olduklarından emin olmalısınız.
- Yazıcının başı basma esnasında yüksek ısıya ulaşıyor. Bu yüzden lütfen dokunmadan önce kısa süre soğumasını bekleyin.
- Yazıcının işletimi ve kullanımında bu dokümantasyondaki talimatların hiç dışına çıkmayın. Sorunlu görünen hususlarda lütfen imâlatçınıza veya müşteri hizmetleri servisimize başvurun.



Cihaz ve elektrik prizinin her zaman kolayca erişilebilir olması gerekir.

## TRADEMARK ACKNOWLEDGEMENTS

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All other product names and company names appearing in this manual are the registered trademarks or trademarks of the individual companies.

## APPROVALS



This device fulfils the European standards requirements by complying with the Directive relating to electromagnetic compatibility and relating to low-voltage electrical equipment. Furthermore, it fulfils the requirements for RoHS and RED if applicable.

Conformity with the above-mentioned Directives is indicated by the CE symbol attached to the device.

Note: Conformity may be affected by:

- using interface cables not complying with the specifications
- non-observance of important instructions in the operator's manual
- installing components not approved for this device by the manufacturer
- unauthorized manipulation



Dieses Gerät erfüllt die Anforderungen der Europäischen Normen durch Einhaltung der Richtlinien bezüglich der Elektromagnetischen Verträglichkeit sowie bezüglich Elektrischer Betriebsmittel mit Niederspannung. Des Weiteren werden die Anforderungen bezüglich RoHS und falls anwendbar RED erfüllt.

Die Konformität zu den oben angeführten Richtlinien ist durch das am Gerät angebrachte CE-Zeichen gekennzeichnet.

Hinweis: Die Konformität kann beeinflusst werden durch:

- Benutzung von nicht spezifizierten Schnittstellen
- Nichtbeachtung wichtiger Hinweise der Bedienungsanleitung
- Ersetzen von Bauteilen, die nicht vom Hersteller für dieses Gerät freigegeben wurden
- Eingriffe durch Unbefugte



This device complies with the requirements of the United Kingdom (UK) legislation of Electrical Safety Regulations, Electromagnetic Compatibility Regulations, if applicable the Radio Regulations and the Restriction of the Hazardous Substances in Electrical and Electronic Equipment Regulations.

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Warning: There are sharp edges, do not touch.



Warning: Hot parts! Touching this component may burn your fingers. Please wait for half an hour after turning off the power before touching the component.



Warning: Running this device in a residential environment may cause radio interference.

## About This Manual

This manual provides information to operators of the TL-200 to describe basic operations to enable safe and correct use of the printer.

## Symbols Description

The symbols in this manual are identified by their level of importance, as defined below. Read the following carefully before handling the product.



**CAUTION:** Provides information that must be observed to prevent damage to the equipment or data loss.



**NOTE:** Advises you of information that is essential to complete a task.

## Related Software and Documents

Related Software and Documents

Software/document name	Description
TL-200 User Manual	This manual.

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## CHAPTER 1 INTRODUCTION

The TallyDascom TL-200 model is the best value in a desktop thermal printer. The TL-200 printer provides direct thermal printing at speeds up to 5 ips (inches per second) at a 203 dpi (dots per inch) print density.

### 1.1 Features

- Easy to switch printer language between ZPL, EPL and TSPL programming and label formats.
- Easy operation. With an open structure, users can easily change paper roll.
- Wide range of connectivity. The USB interface is standard and Ethernet interface is optional.

This user guide provides all the information you need to operate your printer on a daily basis.

## 1.2 Printer Specifications

Print Parameter	Print method	Direct thermal
	Print width	104mm
	Media width	25.4mm~118mm
	Resolution	203DPI
	Print speed(max)	5 ips (127mm/sec)
	Emulation	ZPLII, TSPL, EPL
	Built-in font library	GB18030 font library, ASCII font library
	Built-in barcode	One-dimensional bar code, two-dimensional bar code
	LED indicator	A multi-color LED lamp
	Key	Only One key: Paper Feed
	Buzzer	None
	Paper feeding method	Roll paper, rear folding paper, external support feed paper
	Paper tearing method	Tear paper manually (with upper tear bar)
	Convenience feature	Top margin auto-positioning
Print media	Type	Thermal roll paper (continuous paper, label paper, black mark paper), thermal folding paper
	Direction of heat sensitive surface	Outer
	Thickness	0.08~0.254mm
	Inner diameter of coil core	25.4mm、38mm、76.2mm
	Outside diameter of paper roll	Max130mm
Sensors	Standard sensors	Cover open sensor, paper end sensor, label sensor, paper tear sensor, black mark sensor
Memory	SDRAM	32M bytes
	Flash	8M bytes
Receive buffer		256K bytes
Interface	Standard	USB 2.0
	Optional	Ethernet
Environmental parameters	Operating condition	5~40℃ / 30~80%RH(non-condensing)
	Storage condition	-10~50℃ / 10~90%RH(non-condensing)
Physical Spec	Dimensions	184mmx247mmx170mm
	Weight	About 1.5 kg
Drop test		1 meter
Power Supply	Input	AC 100~240V, 50~60Hz, 1.5A Max
	Output	DC 24V 2.5A
Certification		CE
Noise		Less than 65 dB
Software	SDK	Android, IOS
	DEMO'S	Android, IOS
	Driver and Configuration Tool	Windows Vista/XP/7/8/8.1/10/11 (32bit/64bit)



### 1.3 Print Media Types



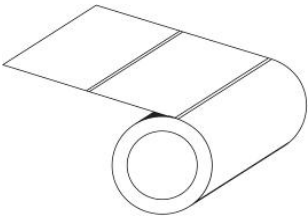
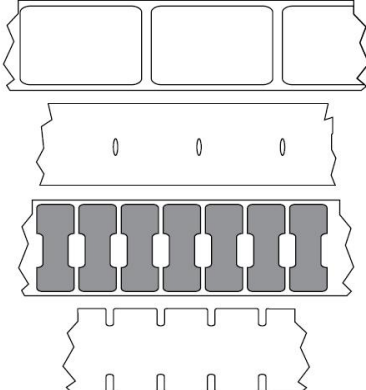
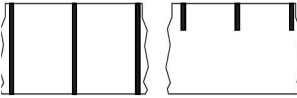
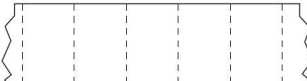
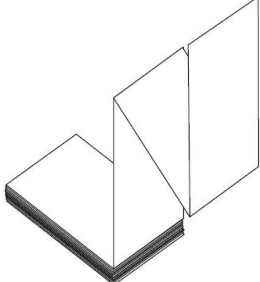
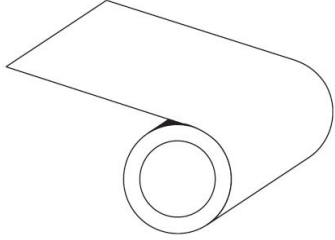
**Important** •Dascom strongly recommends the use of Dascom-brand supplies for continuous high-quality printing.

Your printer can use various types of media:

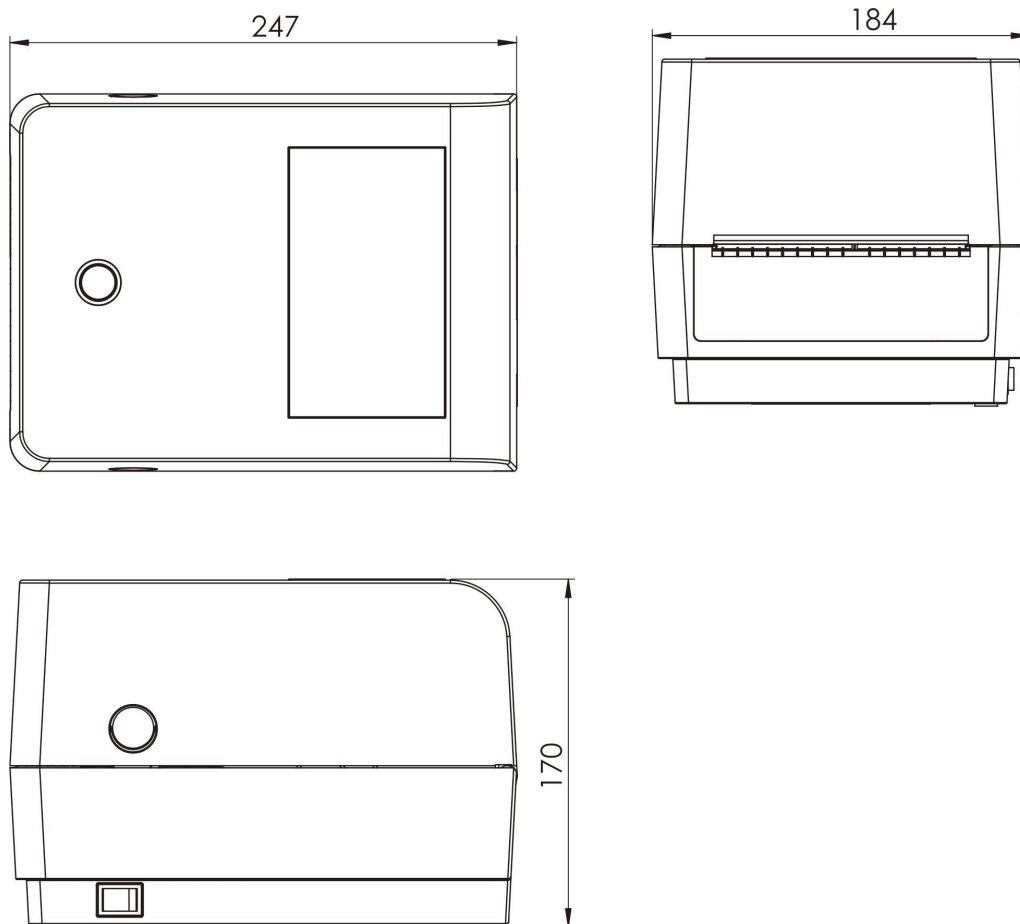
- Standard media—Most standard (non-continuous) media uses an adhesive backing that sticks individual labels or a continuous length of labels to a liner.
- Continuous roll media—Most continuous roll media is direct thermal media (similar to FAX paper) and is used for receipt or ticket style printing.
- Label—Labels are usually made from a heavy paper (up to 0.0075in./0.19mm thick). Label does not have adhesive or a liner, and it is typically perforated between labels.

For more information on basic media types, see the following table.

The printer typically uses roll media, but you can use fan-fold or other continuous media too. Use the correct media for the type of printing required. Direct thermal media must be used.

Media Type	How it looks	Description
<b>Non-Continuous Roll Media</b>		<p>Roll media is wound on a core that can be 0.5 to 1.5 in. (12.7 to 38.1 mm) in diameter. Labels have adhesive backing that sticks them to a liner, and they are separated by gaps, holes, notches, or black marks. Tags are separated by perforations. Individual labels are separated by one or more of the following methods:</p> <ul style="list-style-type: none"> <li>• Web media separates labels by gaps, holes, or notches.</li> </ul>  <ul style="list-style-type: none"> <li>• Black mark media uses pre-printed black marks on the back side of the media to indicate label separations.</li> </ul>  <ul style="list-style-type: none"> <li>• Perforated media has perforations that allow the labels or tags to be separated from each other easily. The media may also have black marks or other separations between labels or tags.</li> </ul> 
<b>Non-Continuous Fanfold Media</b>		<p>Fan-Fold media is folded in a zigzag pattern. Fanfold media can have the same label separations as non-continuous roll media. The separations would fall on or near the folds.</p>
<b>Continuous Roll Media</b>		<p>Roll media is wound on a core that can be 0.5 to 1.5 in. (12.7 to 38.1 mm) in diameter. Continuous roll media does not have gaps, holes, notches, or black marks to indicate label separations. This allows the image to be printed anywhere on the label. A cutter can be used to cut apart individual labels. With continuous media, use the transmissive (gap) sensor so the printer can detect when the media runs out.</p>

## 1.4 External Dimensions



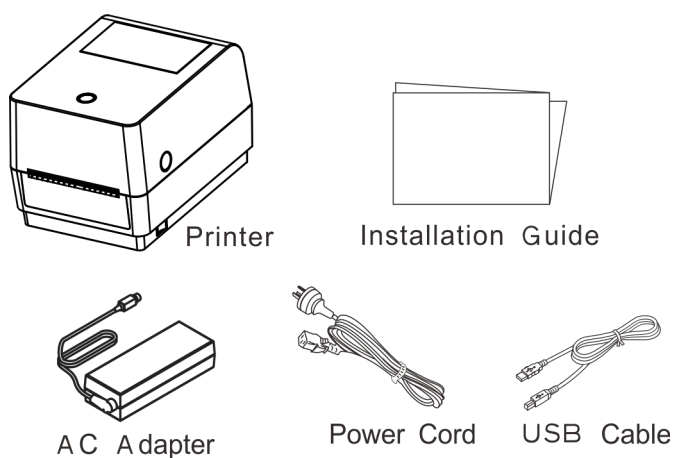
## 1.5 Unpacking

When you receive the printer, please check for possible shipping damage:

1. Inspect the outside of both the box and the printer for possible damage.
2. Open the top cover of the printer to see if the media compartments are in order.

If you discover shipping damage upon inspection:

- Immediately notify the shipping company and file a damage report.
- Keep all packaging material for shipping company inspection.
- Notify your authorized TallyDascom reseller.



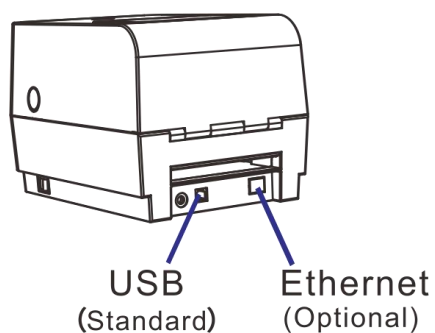
The package contents vary with different customized order requirements.

Package Contents:

<b>Standard</b>	Printer	1 unit
	Power adapter	1 piece
	Power cord	1 piece
	USB cable	1 piece
	Installation guide	1 piece

## 1.6 Product Configuration

### Interface Types

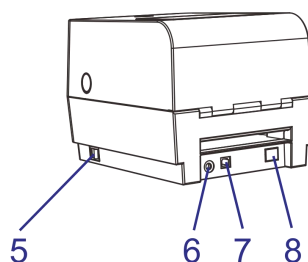
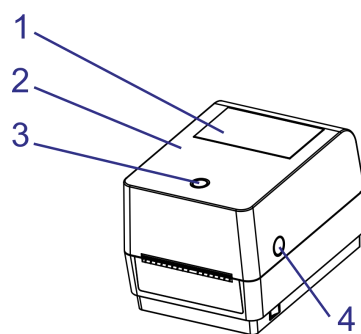


Model	Interfaces		Power Cord	Paper Cut	Sensor
	USB	ETH	EN/UK/EU	Tear Bar	Black Mark
TL-200	✓	O	✓	✓	✓

Remarks: “ ✓ ” indicates standard configuration, “O” indicates optional configuration.

ETH=Ethernet interface.

## 1.7 Printer Components



No.	Part Names	Descriptions
1	Perspective window	Keep track of the remaining amount of paper rolls through this window at any time
2	Top cover	Open this cover and replace the roll
3	Feed key	Press this button to feed paper
4	Open key (both sides)	Press the two buttons to open the top cover
5	Power switch	Turn on and off the printer
6	Power socket	Socket for detachable power cord.
7	USB interface	USB connection to PC (Standard interface)
8	Optional interface	Optional interface to the PC. (Ordered separately)

## 1.8 Control Panel

### 1.8.1 LED Behavior

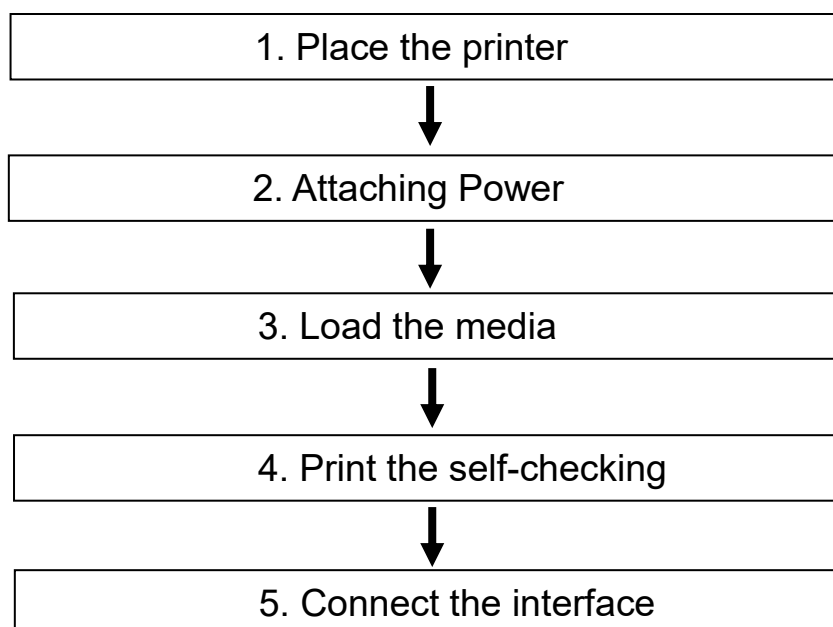
LED	LEDs' behavior	describe
Status	On (Green) ●●●●●●	Power on or standby
	Off ○○○○○○	Error or power off
	On (Red) ●●●●●●	Paper end or print head is opened
	Flash (Green) ○●○●○●	Printing is not finished
	Flash (Red) ○●○●○●	Marking bit is not detected or tear paper bit error
	On (Yellow) ●●●●●●	Print head is over-heated
	Flash (Purple and cyan) ○●○●○●	Firmware update mode
	Flash (Pink and blue) ○●○●○●	Loading new firmware
	Flash (Pink) ○●○●○●	Firmware load error
	Breathing light (Green)	Energy saving mode

### 1.8.2 Feed Key Operation

1. If Continuous Paper is set, the printer will feed the paper for 1 line (30 steps) under standby mode when pressing Feed button.
2. If Continuous Paper is set, the printer will feed the paper continuously under standby mode when holding Feed button.
3. If Label Paper is set, the printer will feed 1 pcs of label under standby mode when pressing Feed button.
4. If Label Paper is set, the printer will not feed the paper under standby mode when holding Feed button.

## CHAPTER 2 INSTALLATION

### 2.1 Recommend Installation Procedures



### 2.2 Placing the Printer

You can install this printer horizontally. Place the printer on a solid, flat, stable surface; ensure the printer is placed in a stable position and there is easy access for users to the control panel and roll paper holder. Also ensure there is enough space for sufficient ventilation and for the printout.

When selecting the placement position, be aware of the following advise:

- Never place the printer near to any flammable gas or explosive substances.
- Do not expose the printer to direct sunlight. If you cannot avoid placing the printer near a window, protect it from the sunlight with a curtain.
- When connecting a computer to the printer, make sure the maximum recommended cable length is not exceeded.
- Ensure sufficient distance between the printer and any heating devices or radiators.
- Avoid exposing the printer to extreme temperature or air humidity fluctuations. Avoid exposure to dusty environments.
- It is recommended the printer is installed in a position which reduces noise exposure to the work place during printing.



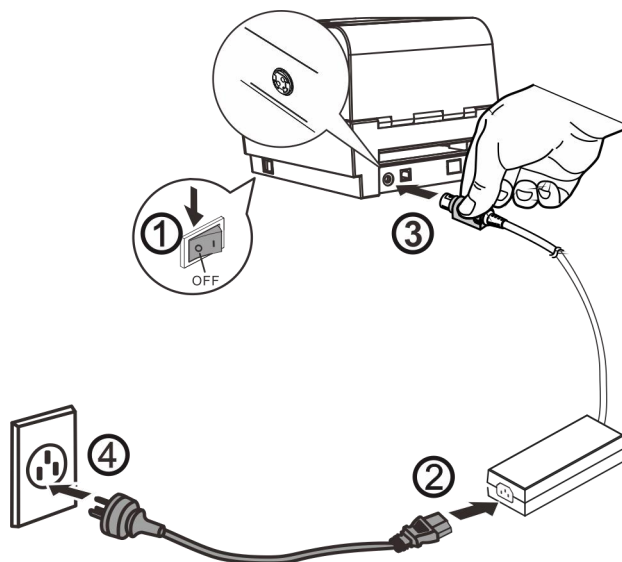
## 2.3 Attaching Power Cable

### Checking the voltage of the power adapter



Before you connect the power adapter to the power socket check if the power adapter input voltage is correct for your country. If you connect the power adapter to power with incorrect voltage this may result in electrical damage to adapter and printer.

1. Make sure the printer and the computer are powered off.
2. Connect the power cord to the power adapter.
3. Connect the power adapter to the power supply interface at the rear of the printer.
4. Ensure the power cord is securely connected. Connect the power cord plug to a mains socket on the wall.



- 1) Please use only the power adapter recommended by the manufacturer;
- 2) When disconnecting the AC adapter plug or handheld plug connector housing, avoid pulling forcefully on the cable;
- 3) Avoid drag the power adapter cable, otherwise it will damage the cables, causing fire and shock;
- 4) Avoid placing the power adapter near a heating device, as this could cause the cable to melt, leading to fire or electric shock;
- 5) If the printer will not be used for a long period, disconnect the power supply from the printer's power adapter.

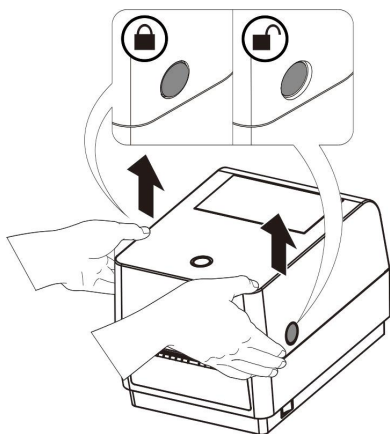


## 2.4 Loading Roll Media

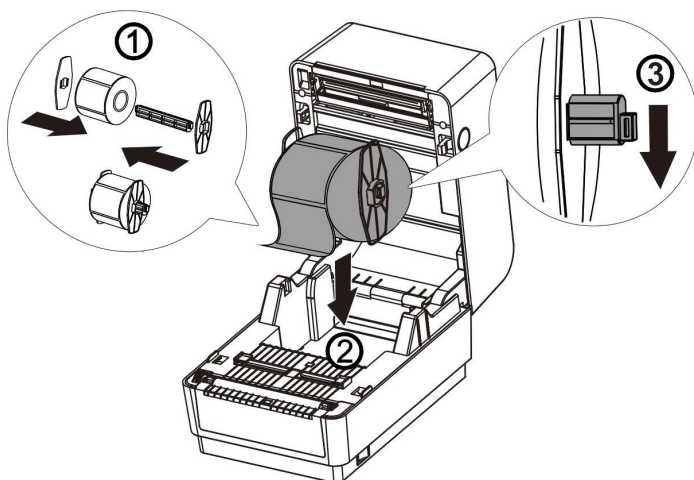


- Must use thermal media in case of no ribbon in the printer.
- **Tips for avoiding media jam:** Make sure the media is aligned in the center of the printer and the media fixers are firmly pressed against both sides of the roll.

Before printing, it is necessary to check whether the media you use is appropriate or not. You can scratch the media surface, if the scratch turns black, it is direct thermal media.



Press the open key of both sides to open the top cover



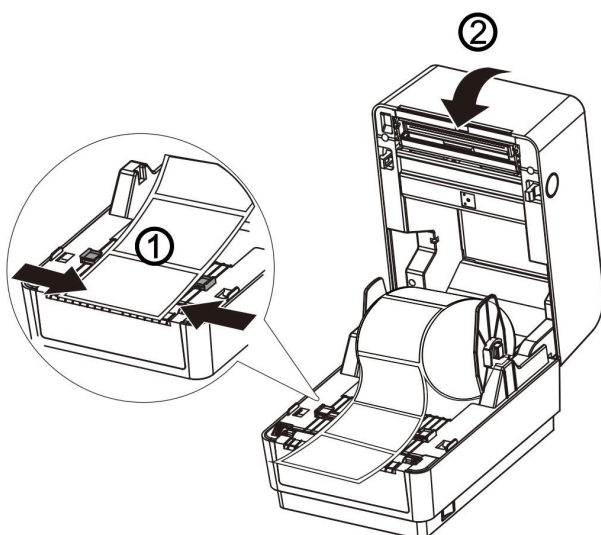
(1) Insert the paper roll into the paper roll rotating shaft and fix the paper roll in the center of the rotating shaft with paper holder.

(2) The paper roll is printed face up into the paper bin.

If the inner diameter of the paper roll is large, the rotating shaft clamp is placed downward.



**Important:** The printing surface faces upward.



(1) Manually adjust the paper holder by threading the paper (with the printing side facing upwards) through the middle of the holder and clamping the paper in place.

(2) Just cover the top cover of the printer.

(8) In order to make sure the data is printed within the label area, it is necessary to execute a Label Calibration procedure: Hold down Feed Key and switch on printer simultaneously, release Feed Key after the buzzer beeps twice. Then the label will be positioned automatically.

Label calibration should be performed in the following situations:

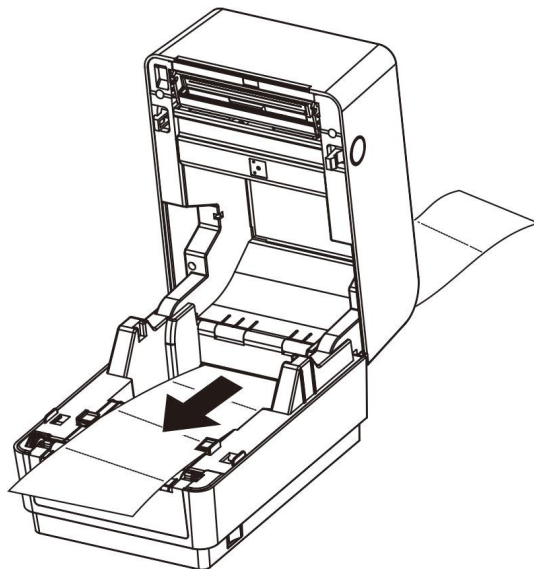


- When using the printer for the first time to print labels.
- When replacing labels with a different size.
- If the printer skips labels.
- If the printer feeds blank labels.
- When refilling with a new roll of labels.

If the auto-check label function is turned on, the printer will automatically check the label after every boot and open-close action, no need to check the label manually.

**Load Media from the Back**

- (1) Pulls the paper from the back cover of the paper bin into the paper bin. Put the paper face up through the paper.
- (2) According to the paper width, manually adjust the paper holder and clip the paper.

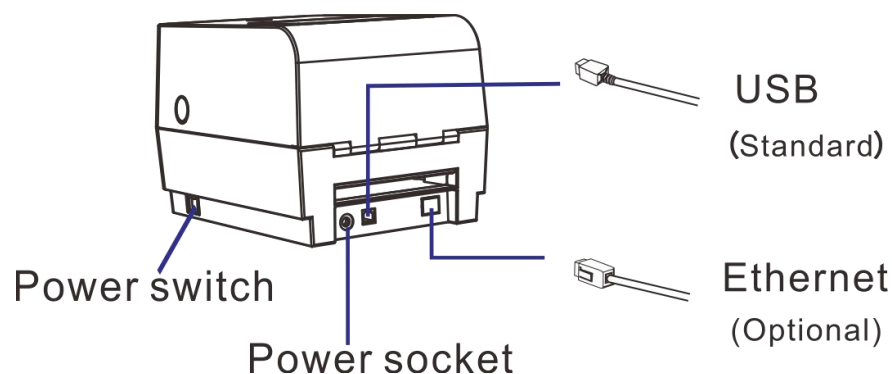


## 2.5 Connect to the Printer

This printer provides a USB interface, while the LAN interface option is available upon ordering.

The procedures to connect the standard interface:

1. Disconnect or switch off the power supplied to the printer.
2. Plug in one end of the interface cable to the corresponding interface port.
3. Plug the other end of the cable to the PC port.



Parts	Descriptions
Power socket	Connect to the connector on the power cord.
Power switch	Toggle it to turn the printer on or off.
USB interface	Communicate with the PC via USB connection. (standard interface)
LAN interface (Optional)	Communication with the LAN server.



The length of the Network cable is less than 30 meters, and can not connect to the outside.

Requirements for interface cables:

To prevent radio emission and interference, completely shielded cable with conductive connector housing should be used. Consider the following factors to reduce emission/interference levels:

- Use short interface cables. (Less than 1.5 m in length is recommended.)
- Separate the interface cable from the power cord.
- Avoid routing the interface cable within the power duct.

The interface cable shall comply with the following specifications:

Interface type	Specifications
USB	USB 1.1/2.0 compatible
Ethernet port	10 Base-T/100 Base-TX compatible

## CHAPTER 3 SOFTWARE INSTALLATION

### 3.1 Installing the Driver

The driver is the connection and transformation platform between the printer and the computer operating system to achieve the interactive processing of the information. User can set up relevant settings, get print status and etc. via driver.

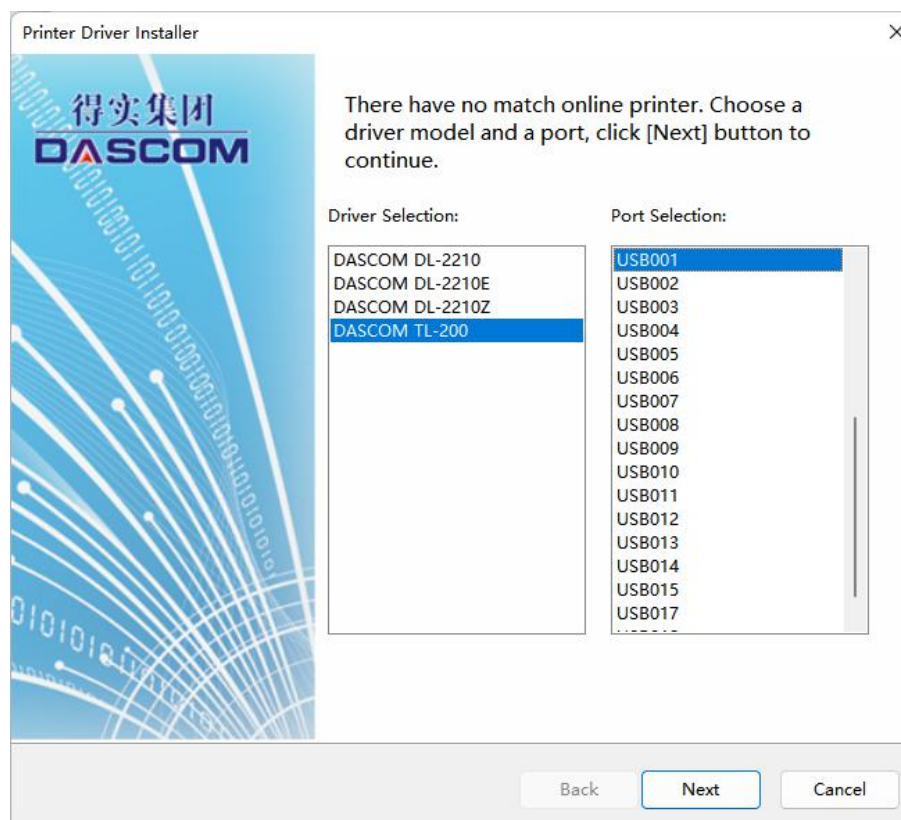
The latest Windows printer drivers can be downloaded from website:

<https://www.dascom.com/downloads.html>

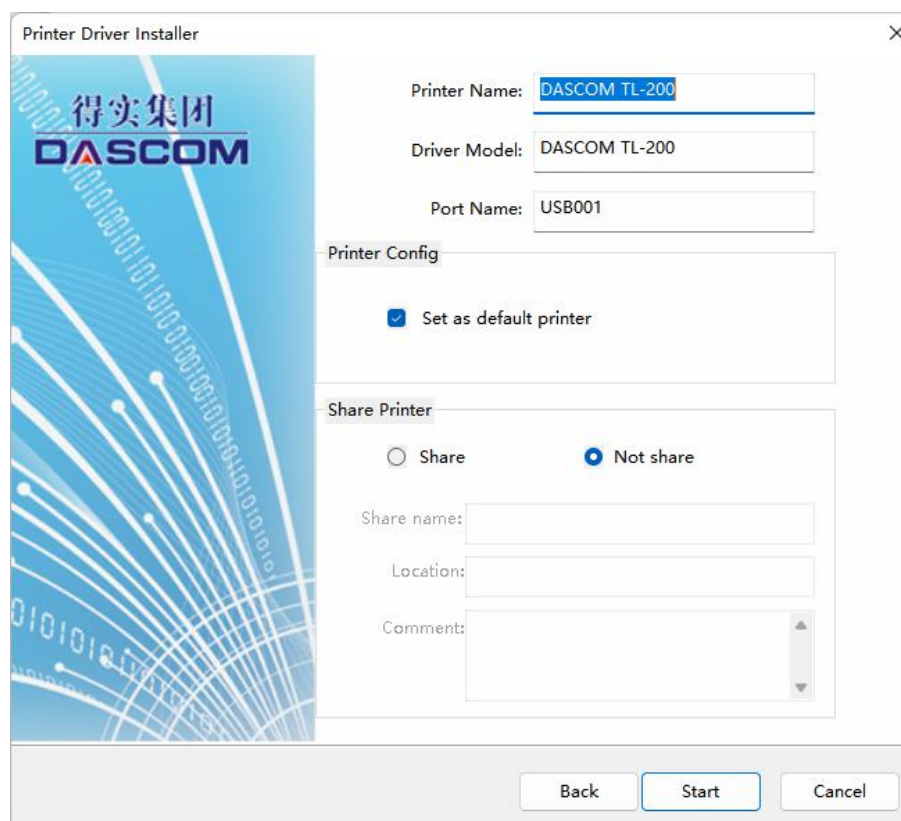
- (1) Connect the USB cable to the computer, from the folder that you unzipped the driver files to select “install.exe”. The program will guide you to finish the whole installation.



(2) Select the driver model and a port, Click “Next” button to continue.



(3) Set up the printer name, click “Start”.





(4) Wait for the installation to finish.



(5) Click the Finish button once the installation ends.



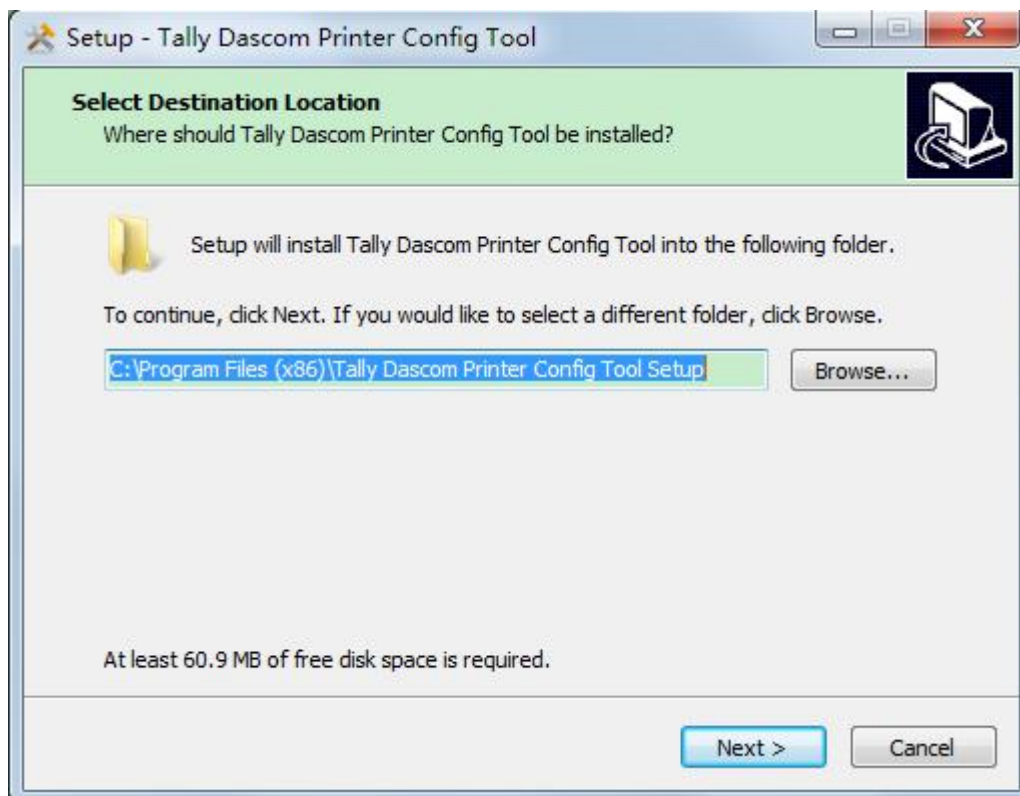


## 3.2 Installing the Configuration Tool

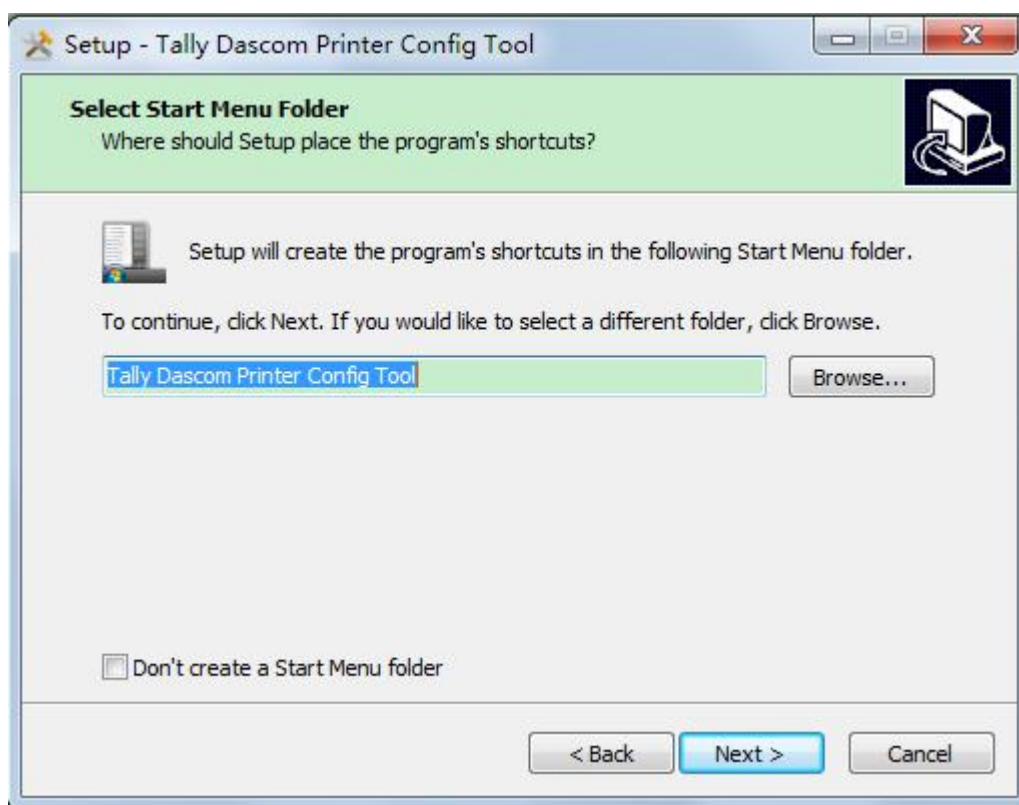
The Configuration Tool package can be downloaded from our web:

<https://www.dascom.com/downloads.html>

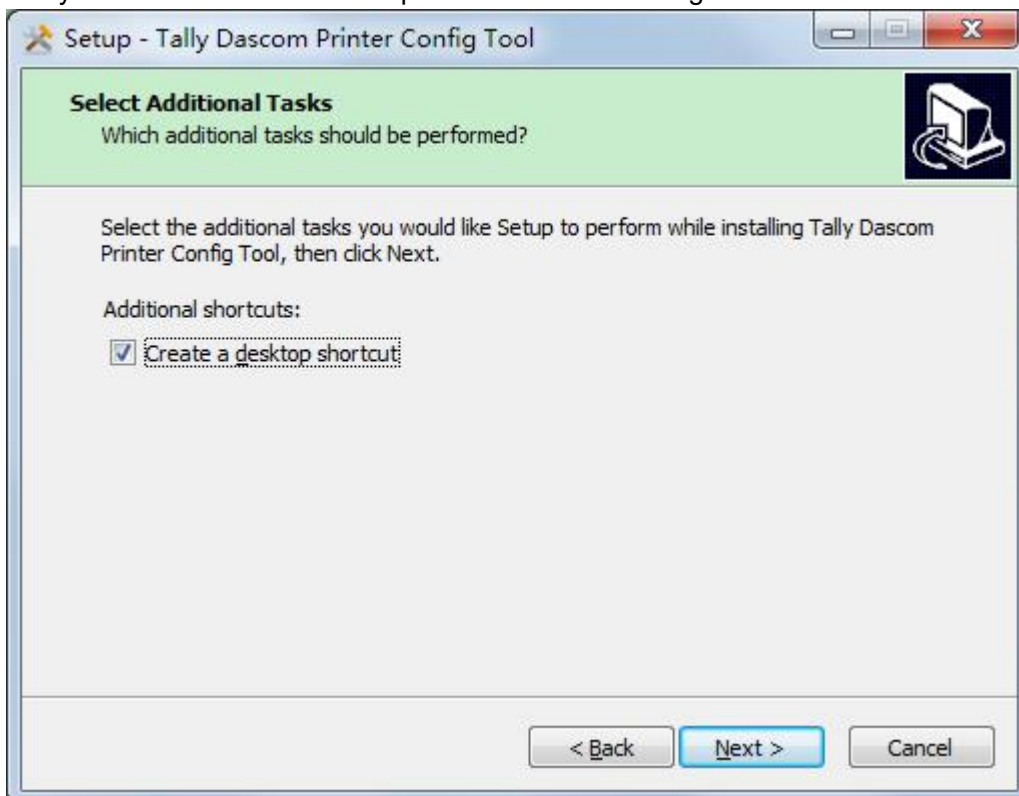
- (1) Specify the installation folder. Then click **Next**.



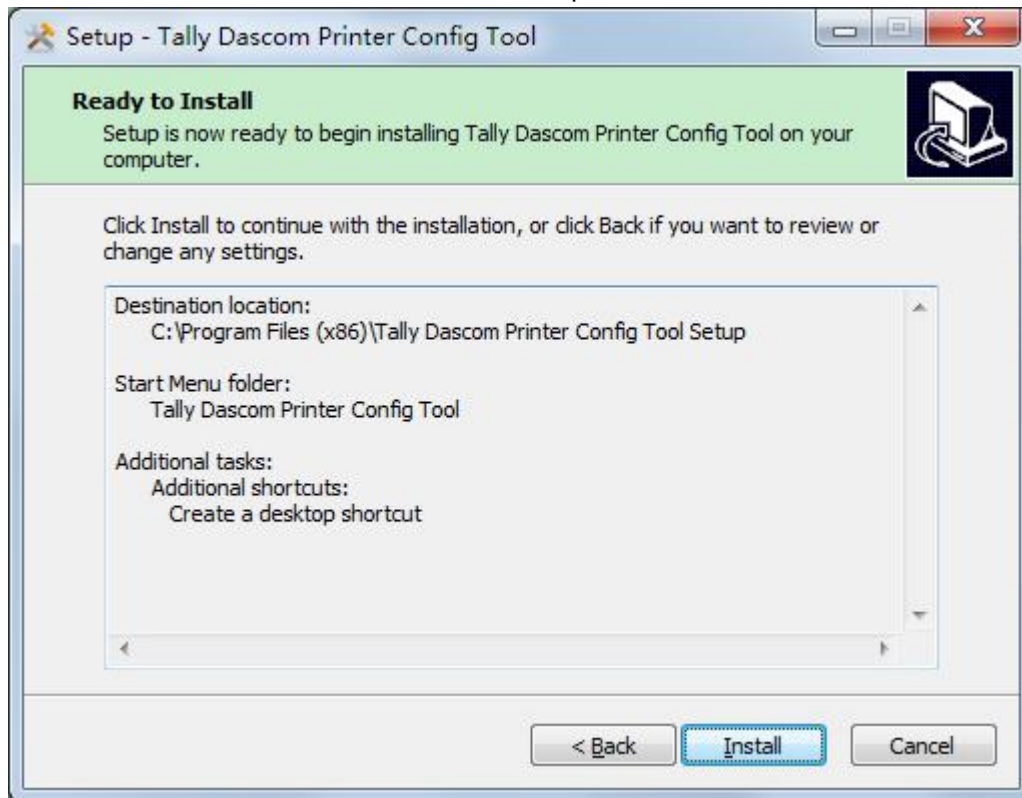
- (2) Decide if you want to create a Start Menu folder. Then click [Next](#).



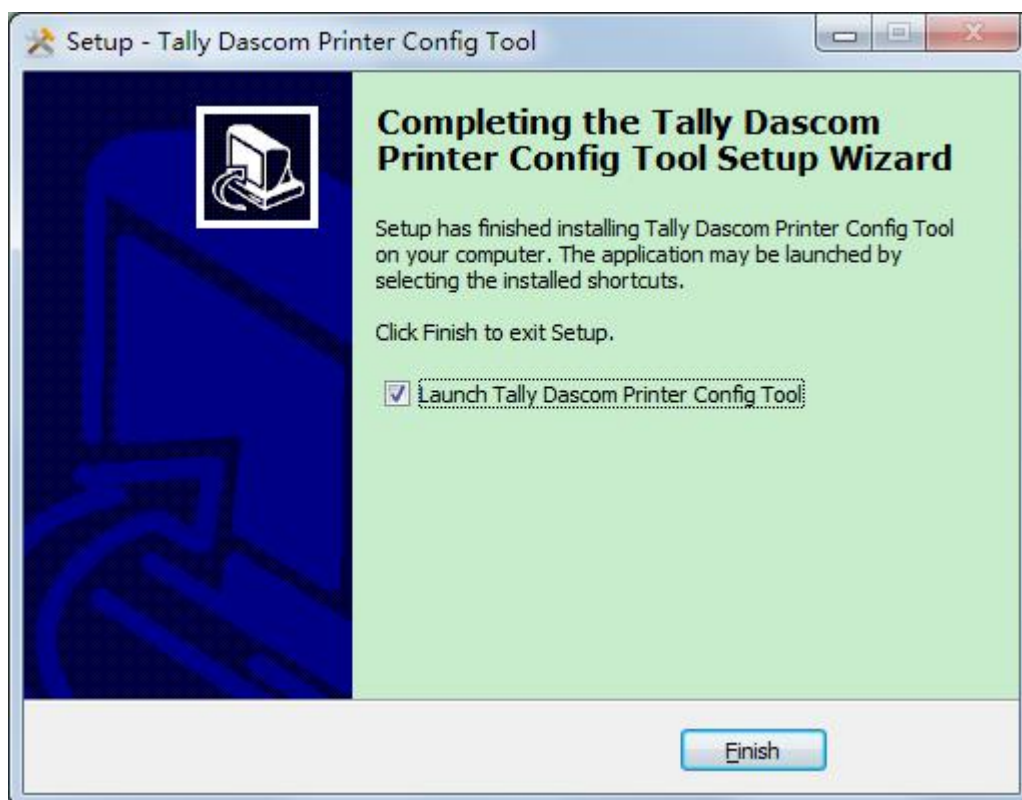
- (3) Decide if you want to create a desktop shortcut for this Configuration Tool.



- (4) Confirm the installation information. Click [Install](#) to proceed.



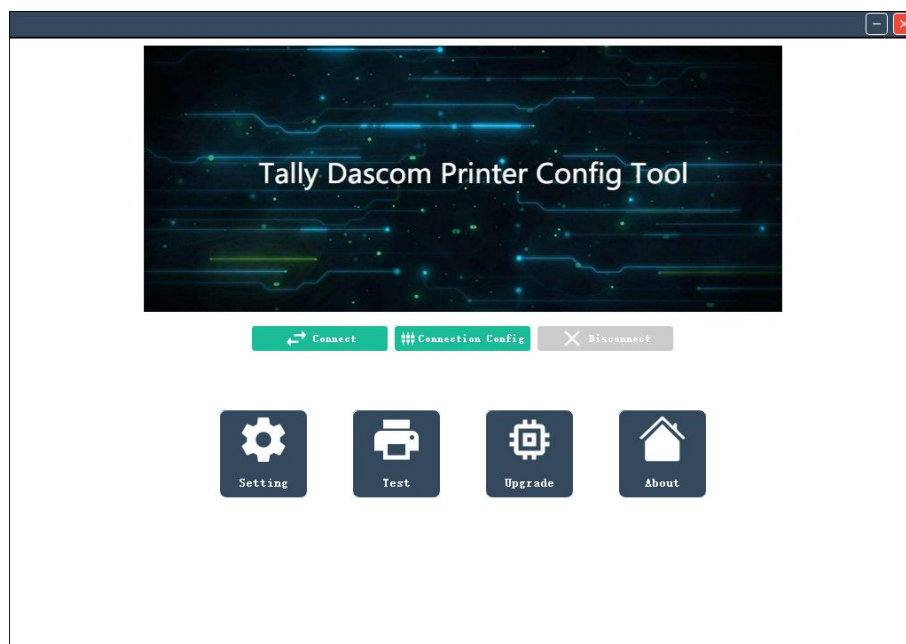
- (5) The Configuration Tool is successfully installed. Click [Finish](#).



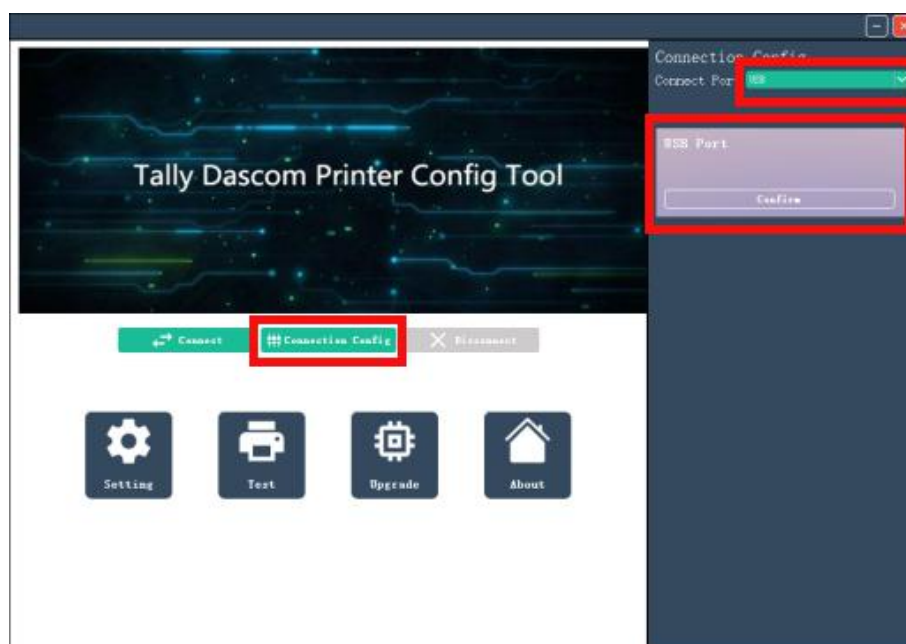
### 3.3 Using the Configuration Tool

You can conveniently setup the printer for your application or upgrade the firmware with this Configuration Tool.

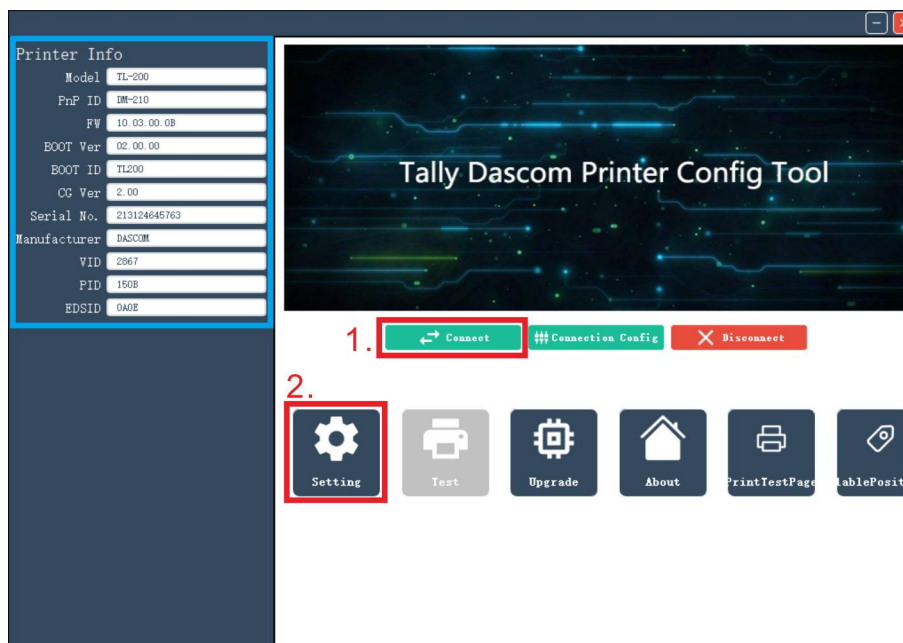
- (1) Open the “Tally DASCOM Printer Config Tool” and display the following screen. Make sure the printer is on standby and that the port is properly connected.



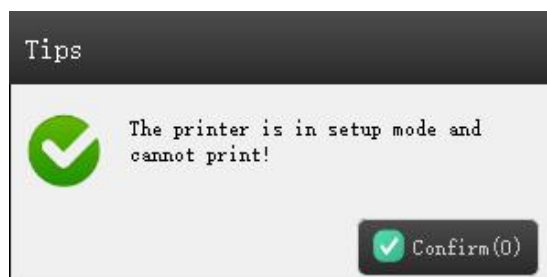
- (2) Click on "Connection configuration", select the current "Connection port" with the printer in the upper right corner and set the relevant interface parameters.



- (3) Click "Connect" first, when the information appears in the left Blue Box (PS: the information about the current printer is in the left blue box) , then click the "Settings" button to change the printer configuration. Take a model as an example, the picture is for reference only, please refer to the actual content.



- (4) When you click the "Set" button, the following prompt appears. Please click "Confirm" to continue.



(5) The following screen is displayed, at this point you can change the printer settings.

Parameters	Current Values	Defaults
Language	English	English
Emulation	ZPLII	ZPLII
Media	Label	Label
Print Type	Direct Thermal	Direct Thermal
Print density	8	8
Print Speed	5.0 IPS	5.0 IPS
Paper Sensor	Gap Sensor	Gap Sensor
Paper Sensor Adjust	1Level	1Level
Cutter	Off	Off
Top Form Sensing	Off	Off
Cut position	0.00 mm	0.00 mm
Vertical Position	0.00 mm	0.00 mm
Black Mark AD Value	300.00 mm	300.00 mm
TearPosWTime	OFF	OFF
USB ID	On	On

Annotations: No comments

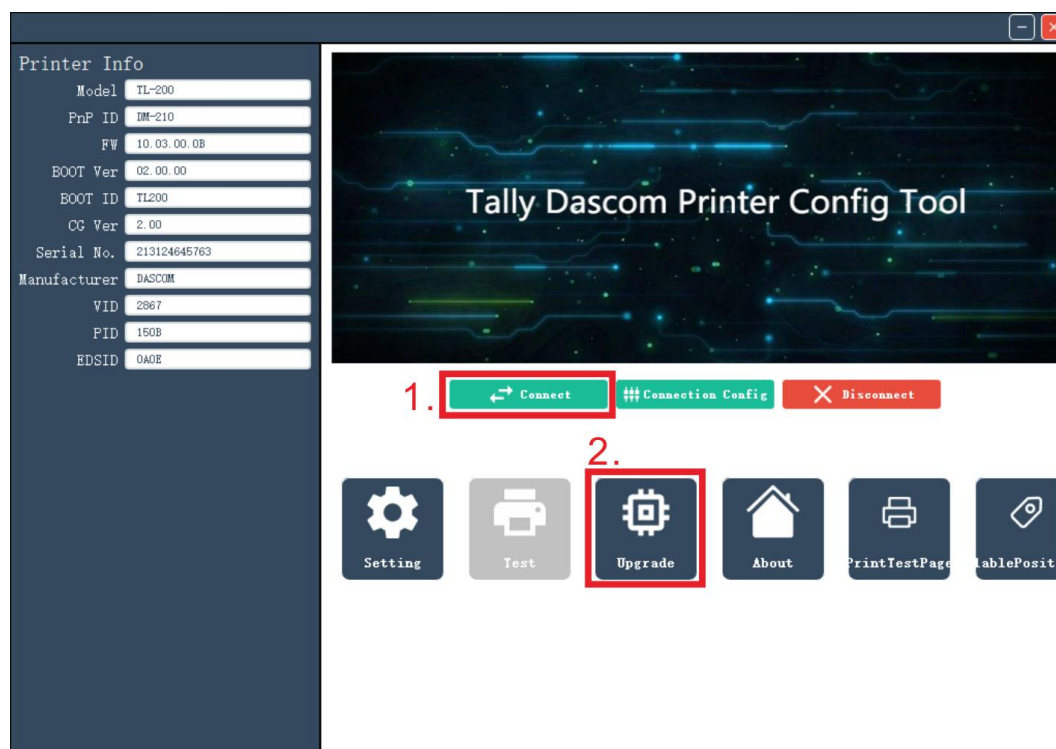
Buttons: Save, Reset, Read Settings, Import, Export

System settings: settings items may differ depending on the machine version.

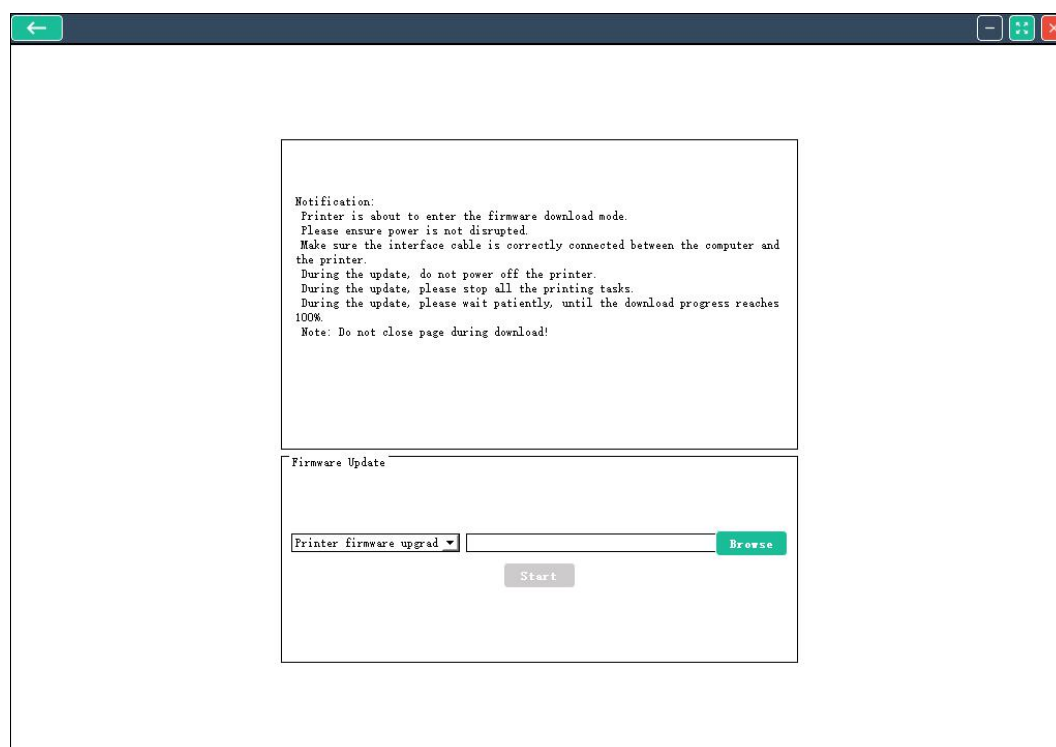
(6) When the settings are changed, click “Save” in the lower left corner, and the window will pop up. Just click “Restart printer”. When the printer restarts, the setting takes effect.

### 3.4 Upgrading the Firmware

- (1) Connect the printer to the PC with an USB cable. Click Connect, then click Upgrade in the Config Tool menu.



- (2) Locate the firmware file by clicking [Browse](#). Then click [Start](#). A message box pops up to ask for confirmation; click [Confirm](#).



- (3) When the progress bar reaches 100%, the upgrade process is completed. Wait for a few seconds until the printer restarts.



## CHAPTER 4 SUPPORT UTILITIES

### 4.1 Configuration List (Self-test Page)

Listing the configurations helps to confirm the printer is properly setup. The procedures to print out this configuration list:

1. Properly load the media. Close the top cover. Turn off the power.
2. Hold the Feed Key when turn on the printer.
3. Release the Feed Key after the Status LED first flashes green light. The printer then prints out the configuration list.



The printout is an example. It may differ depending of installed options or interfaces.



## 4.2 Hex-Dump

If the printer fails to print online but can print the configuration list offline, you may set the printer to operate in hex-dump mode to check the communication between the PC and the printer. Feedback any problem to our customer support with this hex-dump list.

The procedures to set the printer operating in hex-dump mode:

- Hold the Feed Key when turn on the printer. Release this key after the Status LED flashes green light 3 times.

## 4.3 Label Auto Detection and Positioning

Turn on the label auto-check function to automatically detect labels and automatically detect results so that label length does not need to be repositioned when printing, the printer also senses the location of each label.

(1) Please check that the paper is properly installed on the printer.

(2) The printer will detect and locate the label automatically after opening and closing the cover.

## CHAPTER 5 TROUBLESHOOTING AND MAINTENANCE

Your printer is extremely reliable, but occasionally problems may occur. This chapter provides information on some of the common problems you may encounter and how you may solve them. If you encounter problems that you cannot resolve, please contact your dealer for assistance.

Read the following instructions before maintenance and avoid incorrect operation, so as to prevent injury to you and damage to the printer.

### 5.1 Common Issues

- **LED Indication and Buzzer Alarm**

Condition	Possible Cause	What to do?
Notification LED is off	Power cord unplugged	Check power cord and plug it properly
	Printer turned off	Turn on printer
	Damaged main board	Contact service representatives
Notification LED is always red	Media ended	Re-load media
	The print head component is open or tightly unlocked	Tighten the print head assembly
The LED always on (Yellow)	Print head is over-heated	Turn off the power and wait for the print head temperature to return to normal before printing.
The LED flash (Red)	The menu is set up with label but actually uses continuous paper	Please change to “Continuous paper” or change the label medium in the settings tool.
	Paper sensor is dusty	Clean the paper sensor.

## • Printing Error

Condition	Possible Cause	What to do?
Blurred or spot printing	Incorrect media roll installation	Check media roll and re-load it properly
	Media is out of specification	Use recommended media
	Dirty thermal print head or platen	Clean print head or platen
	Low print density	Increase the print density (heat)
Self-test fail	Hardware problem	Contact service representatives
Media jam	Label stuck	Check media path and clean jammed label
Printer feeds blank labels	Label positioning problem or label size setting exceeds the physical size.	Execute label calibration. If it doesn't work, you have to verify the label size setting is correct or not.
The label size is set correct but the print content is offset	Label positioning problem	Execute label calibration.

## 5.2 Resetting the Factory Default Values

Sometimes, resetting the printer to the factory defaults may solve some problems.

There are two methods to set to factory setting:

Method one: Hold down Feed Key and switch on printer till Power LED blinks four times, buzzer beeps four times.

Method two: Choose restore all setting on printer setup page through setup tool.

## 5.3 Removing Jammed Label



Printhead may be hot, please do not touch!

- (1) Turn printer off, open top cover and turn up print head mechanism.
- (2) Remove the jammed label, clean the print head with a cotton swab with alcohol.
- (3) Reload media.

## 5.4 Cleaning Thermal Print Head



- After printing, the print head becomes very hot. Be careful not to touch it and to let it cool before you clean it.
  - Do not damage the print head by touching it with your fingers or any hard object.
- Turn off the printer, open the top cover, clean the thermal elements of the print head with a cotton swab moistened with alcohol solvent (ethanol, methanol, or isopropyl).
  - Be gentle with the cleaning so as not to damage the printhead.
  - We recommend cleaning the thermal print head periodically (generally every 3 months) to maintain print quality.

## 5.5 Maintenance

TL-200 is designed for a long and reliable lifetime. But periodic maintenance is recommended in order to assure error free working. This also would guarantee the good print quality over the life time. It is recommended to clean the printer once every six months or after 300 hours duty.

Before cleaning, switch off the printer, wait a few seconds and unplug the power cord.

- Open the cover and remove the dust, paper shreds and other debris from inside by using a soft vacuum cleaner or a brush.
- In order to remove the dirt, you can wipe clean the machine with a soft cloth dipped in alcohol instead of the ketone or TEC solvent which may cause damage to the plastic parts. Please be aware that excessive moisture will lead to the improper functioning of electronic parts.
- Clean the platen roller with soft cloth.

While you are cleaning the printer, in order to avoid short circuit, do not damage or loose the cable or electronic parts, do not drop metal material inside, such as paper clips or pins.

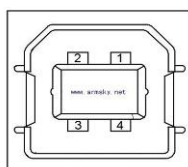
## CHAPTER 6 COMMUNICATION INTERFACES SPECIFICATIONS

### 6.1 USB Interface

- **USB interface pin assignment**

PIN No.	Description	Classic wire color
1	VBUS	Red
2	D-	White
3	D+	Green
4	GND	Black

- **USB interface connector diagram**

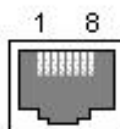


### 6.2 Ethernet Interface

- **Ethernet interface pin assignment**

Pin. No.	Name	Description
1	TX+	Tranceive Data+
2	TX-	Tranceive Data-
3	RX+	Receive Data+
4	n/c	Not connected
5	n/c	Not connected
6	RX-	Receive Data-
7	n/c	Not connected
8	n/c	Not connected

- **Ethernet interface connector diagram**



## CHAPTER 7 CHARACTER CODE PAGES



- The character code tables show only character configurations. They do not show the actual print pattern.
- “SP” in the table shows a space.

### 7.1 Common to all Pages (International Character Set: USA)

HEX	0	1	2	3	4	5	6	7
0	NUL 00	DLE 16	SP 32	0 48	@ 64	P 80	 96	p 112
1	 01	XON 17	! 33	1 49	A 65	Q 81	a 97	q 113
2	 02	 18	“ 34	2 50	B 66	R 82	b 98	R 114
3	 03	XOFF 19	# 35	3 51	C 67	S 83	c 99	s 115
4	EOT 04	DC4 20	\$ 36	4 52	D 68	T 84	d 100	t 116
5	ENQ 05	NAK 21	% 37	5 53	E 69	U 85	e 101	u 117
6	ACK 06	 22	& 38	6 54	F 70	V 86	f 102	V 118
7	 07	CAN 23	‘ 39	7 55	G 71	W 87	g 103	w 119
8	 08	 24	( 40	8 56	H 72	X 88	h 104	x 120
9	HT 09	 25	) 41	9 57	I 73	Y 89	i 105	y 121
A	LF 10	 26	* 42	: 58	J 74	Z 90	j 106	Z 122
B	 11	ESC 27	+ 43	; 59	K 75	[ 91	k 107	{ 123
C	FF 12	FS 28	, 44	< 60	L 76	\ 92	l 108	 124
D	CR 13	GS 29	- 45	= 61	M 77	] 93	m 109	} 125
E	 14	RS 30	. 46	> 62	N 78	^ 94	n 110	~ 126
F	 15	 31	/ 47	? 63	O 79	_ 95	o 111	SP 127

## 7.2 International Character Sets







Country	ASCII code (Hex)											
	23	24	40	5B	5C	5D	5E	60	7B	7C	7D	7E
USA	#	\$	@	[	\	]	^	`	{		}	~
France	#	\$	à	°	ç	§	^	`	é	ù	è	¨
Germany	#	\$	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß
U.K.	£	\$	@	[	\	]	^	`	{		}	~
Denmark I	#	\$	@	Æ	Ø	Å	^	`	æ	ø	å	~
Sweden	#	¤	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
Italy	#	\$	@	°	\	é	^	ù	à	ò	è	ì
Spain I	Pt	\$	@	¡	Ñ	¿	^	`	¨	ñ	}	~
Japan	#	\$	@	[	¥	]	^	`	{		}	~
Norway	#	¤	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Denmark II	#	\$	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Spain II	#	\$	á	¡	Ñ	¿	é	`	í	ñ	ó	ú
Latin America	#	\$	á	¡	Ñ	¿	é	ü	í	ñ	ó	ú
Korea	#	\$	@	[	₩	]	^	`	{		}	~
Slovenia/ Croatia	#	\$	Ž	Š	Đ	Ć	Č	ž	š	đ	ć	č
China	#	¥	@	[	\	]	^	`	{		}	~

## 7.3 [User-Defined Page]




HEX	8	9	A	B	C	D	E	F
0	SP 128	SP 144	SP 160	SP 176	SP 192	SP 208	SP 224	SP 240
1	SP 129	SP 145	SP 161	SP 177	SP 193	SP 209	SP 225	SP 241
2	SP 130	SP 146	SP 162	SP 178	SP 194	SP 210	SP 226	SP 242
3	SP 131	SP 147	SP 163	SP 179	SP 195	SP 211	SP 227	SP 243
4	SP 132	SP 148	SP 164	SP 180	SP 196	SP 212	SP 228	SP 244
5	SP 133	SP 149	SP 165	SP 181	SP 197	SP 213	SP 229	SP 245
6	SP 134	SP 150	SP 166	SP 182	SP 198	SP 214	SP 230	SP 246
7	SP 135	SP 151	SP 167	SP 183	SP 199	SP 215	SP 231	SP 247
8	SP 136	SP 152	SP 168	SP 184	SP 200	SP 216	SP 232	SP 248
9	SP 137	SP 153	SP 169	SP 185	SP 201	SP 217	SP 233	SP 249
A	SP 138	SP 154	SP 170	SP 186	SP 202	SP 218	SP 234	SP 250
B	SP 139	SP 155	SP 171	SP 187	SP 203	SP 219	SP 235	SP 251
C	SP 140	SP 156	SP 172	SP 188	SP 204	SP 220	SP 236	SP 252
D	SP 141	SP 157	SP 173	SP 189	SP 205	SP 221	SP 237	SP 253
E	SP 142	SP 158	SP 174	SP 190	SP 206	SP 222	SP 238	SP 254
F	SP 143	SP 159	SP 175	SP 191	SP 207	SP 223	SP 239	SP 255



## 7.4 [PC437: USA, Standard Europe]

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	 176	Ł 192	ll 208	α 224	≡ 240
1	ü 129	æ 145	í 161	 177	⌞ 193	⌞ 209	β 225	± 241
2	é 130	Æ 146	ó 162	 178	Ƨ 194	π 210	Γ 226	≥ 242
3	â 131	ô 147	ú 163	 179	Ƨ 195	ll 211	π 227	≤ 243
4	ä 132	ö 148	ñ 164	Ƨ 180	— 196	ℓ 212	Σ 228	∫ 244
5	à 133	ò 149	Ñ 165	Ƨ 181	† 197	Ƨ 213	σ 229	∫ 245
6	å 134	û 150	ä 166	ll 182	Ƨ 198	π 214	μ 230	÷ 246
7	ç 135	ù 151	ø 167	π 183	ll 199	ll 215	τ 231	≈ 247
8	ê 136	ÿ 152	¿ 168	Ƨ 184	ll 200	≠ 216	Φ 232	° 248
9	ë 137	Ö 153	Ƨ 169	ll 185	Ƨ 201	Ƨ 217	Θ 233	• 249
A	è 138	Ü 154	Ƨ 170	ll 186	ll 202	Ƨ 218	Ω 234	· 250
B	ï 139	ø 155	½ 171	Ƨ 187	ll 203	 219	δ 235	√ 251
C	î 140	£ 156	¼ 172	ll 188	ll 204	 220	∞ 236	n 252
D	ì 141	¥ 157	ì 173	ll 189	= 205	ll 221	Φ 237	² 253
E	Ä 142	Pt 158	« 174	Ƨ 190	ll 206	ll 222	ε 238	■ 254
F	Å 143	f 159	» 175	Ƨ 191	ll 207	 223	∩ 239	SP 255

## 7.5 [PC850: Multilingual]

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	 176	Ł 192	đ 208	Ó 224	– 240
1	ü 129	æ 145	í 161	 177	Ł 193	Đ 209	β 225	± 241
2	é 130	Æ 146	ó 162	 178	Ŧ 194	Ê 210	Ô 226	= 242
3	â 131	ô 147	ú 163	 179	Ŧ 195	Ë 211	Ò 227	¾ 243
4	ä 132	ö 148	ñ 164	Ŧ 180	– 196	È 212	õ 228	¶ 244
5	à 133	ò 149	Ñ 165	Á 181	† 197	ı 213	Õ 229	§ 245
6	å 134	û 150	ä 166	Â 182	ă 198	Í 214	μ 230	÷ 246
7	ç 135	ù 151	å 167	À 183	Ă 199	Î 215	þ 231	˙ 247
8	ê 136	ÿ 152	ı 168	© 184	Ł 200	İ 216	þ 232	° 248
9	ë 137	Ö 153	® 169	Ŧ 185	Ŧ 201	Ŧ 217	Ú 233	ˆ 249
A	è 138	Ü 154	Ŧ 170	 186	Ł 202	Ŧ 218	Û 234	˙ 250
B	ï 139	ø 155	½ 171	Ŧ 187	Ŧ 203	■ 219	Ü 235	¹ 251
C	î 140	£ 156	¼ 172	Ŧ 188	Ŧ 204	■ 220	Ý 236	³ 252
D	ì 141	Ø 157	ì 173	¢ 189	= 205	ı 221	Ý 237	² 253
E	Ä 142	× 158	« 174	¥ 190	Ŧ 206	İ 222	– 238	■ 254
F	Å 143	f 159	» 175	Ŧ 191	α 207	■ 223	’ 239	SP 255







## 7.6 [PC852: Latin2]

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	176	Ł 192	đ 208	Ó 224	- 240
1	ü 129	Í 145	í 161	177	Ł 193	Đ 209	β 225	” 241
2	é 130	Í 146	ó 162	178	Ŧ 194	Ď 210	Ô 226	‘ 242
3	â 131	ô 147	ú 163	179	Ŧ 195	Ě 211	Ň 227	ˇ 243
4	ä 132	ö 148	À 164	† 180	— 196	ď 212	ń 228	ˇ 244
5	ű 133	Ľ 149	ą 165	Á 181	† 197	Ň 213	ň 229	§ 245
6	ć 134	Ĳ 150	Ž 166	Â 182	Ă 198	Í 214	Š 230	÷ 246
7	ç 135	Ś 151	ž 167	Ě 183	ă 199	Î 215	š 231	„ 247
8	ł 136	ś 152	Ę 168	Ş 184	Ł 200	ě 216	Ř 232	° 248
9	ë 137	Ö 153	ę 169	ǃ 185	ƒ 201	Ƶ 217	Ú 233	“ 249
A	Ő 138	Ü 154	SP 170	ǃ 186	Ł 202	ƒ 218	ŕ 234	• 250
B	ő 139	Ť 155	ž 171	ǃ 187	ƒ 203	219	Ů 235	ů 251
C	î 140	ť 156	Č 172	ǃ 188	ƒ 204	220	ý 236	Ř 252
D	Ž 141	ł 157	ş 173	Ž 189	= 205	Ţ 221	Ý 237	ř 253
E	Ä 142	× 158	« 174	ž 190	ƒ 206	Ů 222	ţ 238	■ 254
F	Ć 143	č 159	» 175	ǃ 191	α 207	223	’ 239	SP 255

## 7.7 [PC858: Euro]

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	176	Ł 192	ø 208	Ó 224	– 240
1	ü 129	æ 145	í 161	177	Ł 193	Ð 209	β 225	± 241
2	é 130	Æ 146	ó 162	178	Ƨ 194	Ê 210	Ô 226	= 242
3	â 131	ô 147	ú 163	179	Ƨ 195	Ë 211	Ò 227	¾ 243
4	ä 132	ö 148	ñ 164	† 180	– 196	È 212	õ 228	¶ 244
5	à 133	ò 149	Ñ 165	Á 181	† 197	€ 213	Õ 229	§ 245
6	å 134	û 150	ä 166	Â 182	ã 198	Í 214	μ 230	÷ 246
7	ç 135	ù 151	å 167	À 183	Ä 199	Î 215	þ 231	˘ 247
8	ê 136	ÿ 152	ı 168	© 184	Ł 200	Ï 216	ƒ 232	° 248
9	ë 137	Ö 153	® 169	Ɔ 185	Ɔ 201	Ɔ 217	Ú 233	˙ 249
A	è 138	Ü 154	Ɔ 170	186	Ɔ 202	Ɔ 218	Û 234	· 250
B	ï 139	ø 155	½ 171	Ɔ 187	Ɔ 203	■ 219	Ü 235	¹ 251
C	î 140	£ 156	¼ 172	Ɔ 188	Ɔ 204	■ 220	Ý 236	³ 252
D	ì 141	Ø 157	ı 173	¢ 189	= 205	ı 221	Ý 237	² 253
E	Ä 142	× 158	« 174	¥ 190	Ɔ 206	Ï 222	– 238	■ 254
F	Å 143	f 159	» 175	Ɔ 191	α 207	■ 223	’ 239	SP 255







## 7.8 [PC860: Portuguese]

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	 176	Ł 192	ll 208	α 224	≡ 240
1	ü 129	À 145	í 161	 177	⊥ 193	⌞ 209	β 225	± 241
2	é 130	È 146	ó 162	 178	⌞ 194	π 210	Γ 226	≥ 242
3	â 131	ô 147	ú 163	 179	⌞ 195	ll 211	π 227	≤ 243
4	ã 132	õ 148	ñ 164	⌞ 180	— 196	ℓ 212	Σ 228	 244
5	à 133	ò 149	Ñ 165	⌞ 181	⌞ 197	F 213	σ 229	 245
6	Á 134	Ú 150	ä 166	ll 182	⌞ 198	π 214	μ 230	÷ 246
7	ç 135	ù 151	ø 167	π 183	ll 199	ll 215	τ 231	≈ 247
8	ê 136	Ï 152	¿ 168	⌞ 184	ll 200	⌞ 216	Φ 232	° 248
9	Ê 137	Ö 153	Ò 169	ll 185	⌞ 201	⌞ 217	Θ 233	• 249
A	è 138	Ü 154	¬ 170	ll 186	ll 202	Γ 218	Ω 234	· 250
B	Í 139	ø 155	½ 171	⌞ 187	⌞ 203	 219	δ 235	√ 251
C	Ô 140	£ 156	¼ 172	ll 188	ll 204	 220	∞ 236	n 252
D	ì 141	Ù 157	ì 173	ll 189	= 205	ll 221	Φ 237	² 253
E	Ã 142	Pt 158	« 174	⌞ 190	ll 206	ll 222	ε 238	■ 254
F	Å 143	Ó 159	» 175	⌞ 191	ll 207	 223	∩ 239	SP 255









## 7.9 [PC863: Canadian-French]

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	Ì 160	Ï 176	Ĺ 192	Ț 208	α 224	≡ 240
1	Ü 129	È 145	Í 161	Î 177	Ł 193	Ț 209	β 225	± 241
2	é 130	Ê 146	Ó 162	Ï 178	Ť 194	Π 210	Γ 226	≥ 242
3	â 131	ô 147	ú 163	ı 179	ƒ 195	ℒ 211	π 227	≤ 243
4	Â 132	Ë 148	“ 164	ƒ 180	— 196	ℓ 212	Σ 228	∫ 244
5	à 133	Ï 149	” 165	ƒ 181	† 197	ƒ 213	σ 229	∫ 245
6	¶ 134	û 150	³ 166	¶ 182	ƒ 198	π 214	μ 230	÷ 246
7	ç 135	ù 151	— 167	π 183	¶ 199	¶ 215	τ 231	≈ 247
8	ê 136	α 152	Î 168	ƒ 184	ℒ 200	≠ 216	Φ 232	° 248
9	ë 137	Ô 153	ƒ 169	¶ 185	ƒ 201	ƒ 217	Θ 233	• 249
A	è 138	Ü 154	ƒ 170	¶ 186	ℒ 202	ƒ 218	Ω 234	· 250
B	ï 139	ø 155	½ 171	¶ 187	¶ 203	■ 219	δ 235	√ 251
C	î 140	£ 156	¼ 172	¶ 188	¶ 204	■ 220	∞ 236	n 252
D	= 141	Ù 157	¾ 173	¶ 189	= 205	■ 221	Φ 237	² 253
E	À 142	Û 158	« 174	¶ 190	¶ 206	■ 222	ε 238	■ 254
F	§ 143	f 159	» 175	¶ 191	¶ 207	■ 223	∩ 239	SP 255

## 7.10 [PC865: Nordic]

HEX	8	9	A	B	C	D	E	F
0	Ç 128	É 144	á 160	 176	Ł 192	ll 208	α 224	≡ 240
1	ü 129	æ 145	í 161	 177	Ł 193	ŧ 209	β 225	± 241
2	é 130	Æ 146	ó 162	 178	ŧ 194	π 210	Γ 226	≥ 242
3	â 131	ô 147	ú 163	 179	ŧ 195	ll 211	π 227	≤ 243
4	ä 132	ö 148	ñ 164	ŧ 180	— 196	Ł 212	Σ 228	 244
5	à 133	ò 149	Ñ 165	ŧ 181	ŧ 197	F 213	σ 229	 245
6	å 134	û 150	ä 166	ll 182	ŧ 198	π 214	μ 230	÷ 246
7	ç 135	ù 151	º 167	π 183	ll 199	ll 215	τ 231	≈ 247
8	ê 136	ÿ 152	¿ 168	ŧ 184	ll 200	ŧ 216	Φ 232	° 248
9	ë 137	Ö 153	Г 169	ll 185	ŧ 201	ŧ 217	Θ 233	• 249
A	è 138	Ü 154	Г 170	ll 186	ll 202	Г 218	Ω 234	• 250
B	ï 139	ø 155	½ 171	ŧ 187	ŧ 203	 219	δ 235	√ 251
C	î 140	£ 156	¼ 172	ll 188	ŧ 204	 220	∞ 236	n 252
D	ì 141	Ø 157	ì 173	ll 189	= 205	ŧ 221	Φ 237	² 253
E	Ä 142	Pt 158	« 174	ŧ 190	ll 206	ŧ 222	ε 238	■ 254
F	Å 143	f 159	α 175	ŧ 191	ll 207	 223	∩ 239	SP 255

## 7.11 [PC866: Cyrillic #2]

HEX	8	9	A	B	C	D	E	F
0	А 128	Р 144	а 160	 176	Л 192	л 208	р 224	ё 240
1	Б 129	С 145	б 161	 177	┐ 193	т 209	с 225	ё 241
2	В 130	Т 146	в 162	 178	т 194	т 210	т 226	ё 242
3	Г 131	У 147	г 163	 179	└ 195	л 211	у 227	ё 243
4	Д 132	Ф 148	д 164	└ 180	— 196	л 212	ф 228	й 244
5	Е 133	Х 149	е 165	└ 181	└ 197	ф 213	х 229	й 245
6	Ж 134	Ц 150	ж 166	└ 182	└ 198	п 214	ц 230	й 246
7	З 135	Ч 151	з 167	т 183	└ 199	т 215	т 231	й 247
8	И 136	Ш 152	и 168	└ 184	л 200	└ 216	ш 232	° 248
9	Й 137	Щ 153	й 169	└ 185	л 201	└ 217	щ 233	• 249
A	К 138	Ъ 154	к 170	└ 186	л 202	г 218	ъ 234	• 250
B	Л 139	Ы 155	л 171	└ 187	т 203	 219	ы 235	√ 251
C	М 140	Ь 156	м 172	└ 188	└ 204	 220	ь 236	№ 252
D	Н 141	Э 157	н 173	└ 189	= 205	 221	э 237	¤ 253
E	О 142	Ю 158	о 174	└ 190	└ 206	 222	ю 238	■ 254
F	П 143	Я 159	п 175	└ 191	└ 207	 223	я 239	SP 255



## 7.12 [PC720: Arabic]

HEX	8	9	A	B	C	D	E	F
0	SP 128	SP 144	ب 160	176	ل 192	ل 208	ض 224	≡ 240
1	SP 129	ء 145	ة 161	177	ل 193	ت 209	ط 225	≈ 241
2	é 130	° 146	ت 162	178	ت 194	ت 210	ظ 226	242
3	a 131	ô 147	ث 163	179	ت 195	ل 211	ع 227	≈ 243
4	SP 132	□ 148	ج 164	ـ 180	ـ 196	ل 212	غ 228	≈ 244
5	à 133	- 149	ح 165	ـ 181	ـ 197	ف 213	ف 229	245
6	SP 134	û 150	خ 166	ل 182	ف 198	ل 214	م 230	246
7	ç 135	ù 151	د 167	ل 183	ل 199	ل 215	ق 231	≈ 247
8	ê 136	ء 152	ذ 168	ف 184	ل 200	ل 216	ك 232	° 248
9	ë 137	أ 153	ر 169	ل 185	ل 201	ل 217	ل 233	° 249
A	è 138	أ 154	ز 170	ل 186	ل 202	ل 218	م 234	° 250
B	ï 139	ؤ 155	س 171	ل 187	ل 203	219	ن 235	√ 251
C	î 140	£ 156	ش 172	ل 188	ل 204	220	ه 236	° 252
D	SP 141	إ 157	ص 173	ل 189	ل 205	221	و 237	2 253
E	SP 142	ى 158	« 174	ل 190	ل 206	222	ى 238	254
F	SP 143	أ 159	» 175	ل 191	SP 207	223	ي 239	SP 255

## CHAPTER 8 COMMAND SETS

### 8.1 ZPL Command Sets

Commands	Function
^A	Scalable/Bitmapped Font
^A@	Use Font Name to Call Font
^B0	Aztec Bar Code Parameters
^B1	Code 11 Bar Code
^B2	Interleaved 2 of 5 Bar Code
^B3	Code 39 Bar Code
^B4	Code 49 Bar Code
^B5	Planet Code bar code
^B7	PDF417 Bar Code
^B8	EAN-8 Bar Code
^B9	UPC-E Bar Code
^BA	Code 93 Bar Code
^BB	CODABLOCK Bar Code
^BC	Code 128 Bar Code (Subsets A, B, and C)
^BD	UPS MaxiCode Bar Code
^BE	EAN-13 Bar Code
^BF	MicroPDF417 Bar Code
^BI	Industrial 2 of 5 Bar Codes
^BJ	Standard 2 of 5 Bar Code
^BK	ANSI Codabar Bar Code
^BL	LOGMARS Bar Code
^BM	MSI Bar Code
^BO	Aztec Bar Code Parameters
^BP	Plessey Bar Code
^BQ	QR Code Bar Code
^BR	GS1 Databar (formerly Reduced Space Symbology)
^BS	UPC/EAN Extensions
^BT	TLC39 Bar Code
^BU	UPC-A Bar Code
^BX	Data Matrix Bar Code

Commands	Function
^BY	Bar Code Field Default
^CC ~CC	Change Caret
^BZ	POSTAL Bar Code
^CD	~CD Change Delimiter
^CF	Change Alphanumeric Default Font
^CI	Change International Font/Encoding
^CM	Change Memory Letter Designation
^CO	Cache On
^CP	Remove Label
^CV	Code Validation
^CW	Font Identifier
~DB	Download Bitmap Font
~DE	Download Encoding
^DF	Download Format
~DG	Download Graphics
~DN	Abort Download Graphic
~DS	Download Intellifont (Scalable Font)
~DT	Download Bounded TrueType Font
~DU	Download Unbounded TrueType Font
~DY	Download Objects
~EG	Erase Download Graphics
^FB	Field Block
^FC	Field Clock
^FD	Field Data
^FH	Field Hexadecimal Indicator
^FL	Font Linking
^FM	Multiple Field Origin Locations
^FN	Field Number
^FO	Field Origin
^FP	Field Parameter
^FR	Field Reverse Print
^FS	Field Separator
^FT	Field Typeset

Commands	Function
^FV	Field Variable
^FW	Field Orientation
^FX	Comment
^GB	Graphic Box
^GC	Graphic Circle
^GD	Graphic Diagonal Line
^GE	Graphic Ellipse
^GF	Graphic Field
^GS	Graphic Symbol
~HB	Battery Status
~HD	Head Diagnostic
^HF	Host Format
^HG	Host Graphic
^HH	Configuration Label Return
~HI	Host Identification
~HM	Host RAM Status
~HQ	Host Query
~HQ	Examples
~HS	Host Status Return
^HT	Host Linked Fonts List
~HU	Return ZebraNet Alert Configuration
^HV	Host Verification
^HW	Host Directory List
^HY	Upload Graphics
^HZ	Display Description Information
^ID	Object Delete
^IL	Image Load
^IM	Image Move
^IS	Image Save
~JA	Cancel All
^JB	Initialize Flash Memory
~JB	Reset Optional Memory
~JC	Set Media Sensor Calibration
~JD	Enable Communications Diagnostics

Commands	Function
~JE	Disable Diagnostics
~JF	Set Battery Condition
~JG	Graphing Sensor Calibration
^JH	Early Warning Settings
^JI	Start ZBI (Zebra BASIC Interpreter)
~JI	Start ZBI (Zebra BASIC Interpreter)
^JJ	Set Auxiliary Port
~JL	Set Label Length
^JM	Set Dots per Millimeter
~JN	Head Test Fatal
~JO	Head Test Non-Fatal
~JP	Pause and Cancel Format
~JQ	Terminate Zebra BASIC Interpreter
~JR	Power On Reset
^JS	Sensor Select
~JS	Change Backfeed Sequence
^JT	Head Test Interval
^JU	Configuration Update
^JW	Set Ribbon Tension
~JX	Cancel Current Partially Input Format
^JZ	Reprint After Error
~KB	Kill Battery (Battery Discharge Mode)
^KD	Select Date and Time Format (for Real Time Clock)
^KL	Define Language
^KN	Define Printer Name
^KV	Kiosk Values
^LF	List Font Links
^LH	Label Home
^LL	Label Length
^LR	Label Reverse Print
^LS	Label Shift
^LT	Label Top
^MA	Set Maintenance Alerts
^MC	Map Clear

Commands	Function
^MD	Media Darkness
^MF	Media Feed
^ML	Maximum Label Length
^MM	Print Mode
^MN	Media Tracking
^MP	Mode Protection
^MT	Media Type
^MU	Set Units of Measurement
^MW	Modify Head Cold Warning
^NC	Select the Primary Network Device
~NC	Network Connect
^ND	Change Network Settings
^NI	Network ID Number
~NR	Set All Network Printers Transparent
^NS	Change Wired Networking Settings
~NT	Set Currently Connected Printer Transparent
^PA	Advanced Text Properties
^PF	Slew Given Number of Dot Rows
^PH ~PH	Slew to Home Position
~PL	Present Length Addition
^PM	Printing Mirror Image of Label
^PN	Present Now
^PO	Print Orientation
^PP ~PP	Programmable Pause
^PQ	Print Quantity
^PR	Print Rate
~PR	Applicator Reprint
~PS	Print Start
^PW	Print Width
~RO	Reset Advanced Counters
^SC	Set Serial Communications
~SD	Set Darkness
^SE	Select Encoding Table
^SF	Serialization Field (with a Standard ^FD String)

Commands	Function
^SI	Set Sensor Intensity
^SN	Serialization Data
^SP	Start Print
^SQ	Halt ZebraNet Alert
^SR	Set Print head Resistance
^SS	Set Media Sensors
^SZ	Set ZPL
^TB	Text Blocks
^TO	Transfer Object
~WC	Print Configuration Label
^WD	Print Directory Label
~WQ	Write Query
~WQ	Examples
^XA	Start Format
^XB	Suppress Backfeed
^XF	Recall Format
^XG	Recall Graphic
^XS	Set Dynamic Media Calibration
^XZ	End Format
^ZZ	Printer Sleep

## 8.2 EPL Command Sets

Commands	Function
A	ASCII text
B	Bar Code (EAN-8 / EAN-13 / UPC-A / Interleaved 25 / Codabar / UPC-E / Code39 / Code 128)
b	MaxCode (Data Matrix / PDF417 / QR Code)
C	Cut Immediate
D	Density
EI	Print Soft Font Info.
EK	Delete Soft Font
ES	Store Soft Font
f	Cut/peel position
GG	Tetrieve Graphics
GI	Print Graphics Info.
GK	Delete Graphic
GM	Store Graphic
I	Character Set Selection
JF	Enable Top of Form Backup
LO	Line Draw Black
LS	Line Draw Diagonal
N	Clear Image Buffer
O	Options Select
P	Print
q	Set Label Width
Q	Set Form Width
R	Set Reference Point
S	Speed Select
X	Box Draw
Z	Print Direction
;	Code Anotation
^@	Reset Printer
^default	Set Printer to Factory Defaults



### 8.3 TSPL Command Sets

Commands	Function
SIZE	This command defines the label width and length
BLINE	This command sets the height of the black line and the user-defined extra label feeding length each form feed takes.
BARCODE	This command prints 1D barcodes
QRCODE	This command prints QR code.
GAP	Defines the gap distance between two labels.
REFERENCE	This command defines the reference point of the label
SPEED	This command defines the print speed
DENSITY	This command sets the printing darkness
SET PEEL	This setting is used to enable/disable the self-peeling function. The default setting for this function is off
SET CUTTER	This setting activates or deactivates the cutter and defines how many printed labels is to be cut at one time
SET PARTIAL_CUTTER	This setting activates or deactivates the cutter and defines how many printed labels is to be cut at one time
SET TEAR	This command is used to enable/disable feeding of labels to gap/black mark position for tearing off.
SET RIBBON	This setting is used to enable/disable ribbon sensor detection
DIRECTION	This command defines the printout direction
SHIFT	This command moves the label's vertical position.
OFFSET	This command defines the selective, extra label feeding length each form feed takes, which, especially in peel-off mode and cutter mode, is used to adjust label stop position, so as for label to register at proper places for the intended purposes. The printer back tracks the extra feeding length before the next run of printing.
BITMAP	This command draws bitmap images
REVERSE	This command reverses a region in image buffer
CLS	This command clears the image buffer.
PRINT	This command prints the label format currently stored in the image buffer
PUTPCX	This command prints PCX format images
KILL	This command deletes a file in the printer memory
DOWNLOAD	"DOWNLOAD" is a header of the file that is to be saved in the printer's memory

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