Tally
DASCOM

User Guide   1225 Matrix 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 Operator's Manual 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 mains voltage.

- Always disconnect the printer from the mains 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 the printer and computer are 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.

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.

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.

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 surriscal-da 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.

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 sunstancias 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 apagdos 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.

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.

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 apro-priada.

- 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.

Önemli Güvenlik Talimatları (Turkish)

Lütfen, yazıcıyı işletime 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 ısılı 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 servisinize başvurun.

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Tally Dascom 1225

1 Unpacking Guide

- Place your packaged printer on a solid base.
- Make sure that the "Up" symbols point in the correct direction.
- Open the packaging, lift the printer out of the cardboard box and remove the remaining packaging material.
- Check the printer for any visible transport damage and missing items. If you find any transport damage or if any accessories are missing, please contact your dealer. The following items should be included:
    - o Printer
    - o Paper feed knob
    - o Paper feed tray
    - o Power cord
    - o Ribbon cartridge
    - o CD-ROM
    - o Installation Guide

Remove the packaging materials from the printer as follows:

1. Remove the tape on the paper feed lever.
2. Remove other visible tape on the printer.
3. Open and remove the top cover of the printer.
4. Remove the shipping cardboard from around the print head.
5. On the left and right sides, remove the protective foam inserts.
6. Install the paper feed knob.
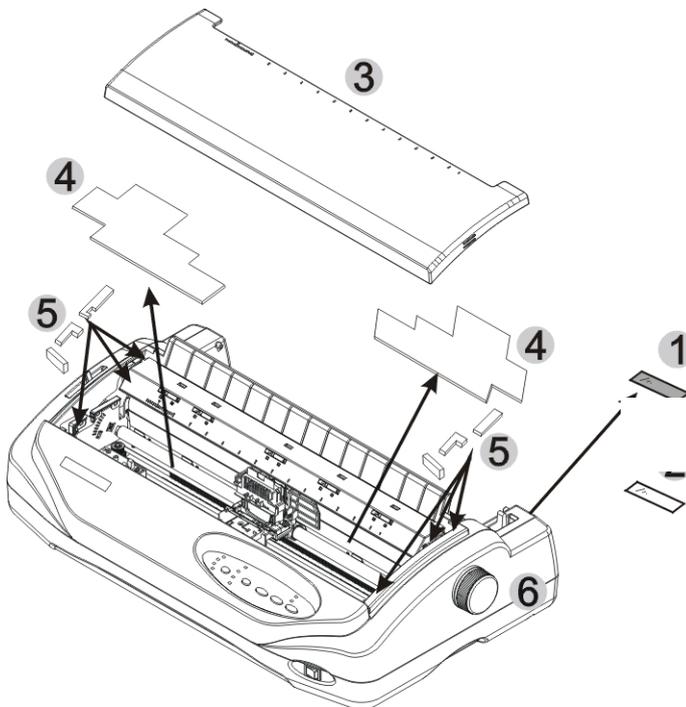
Placing the Printer

Place the printer on a solid, flat, stable surface; ensuring that the printer is positioned in such a way that it cannot move, and that there is easy access to the control panel and paper input devices. Also ensure that there is enough space for sufficient ventilation and for the printed output.

When selecting the printer location, observe the following additional instructions:

- 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/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.

Printer Components
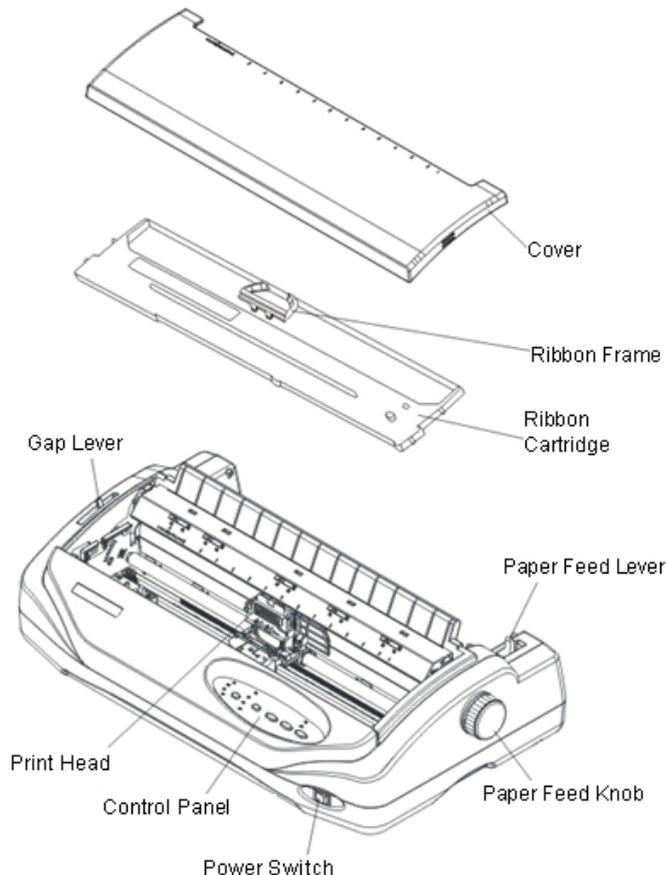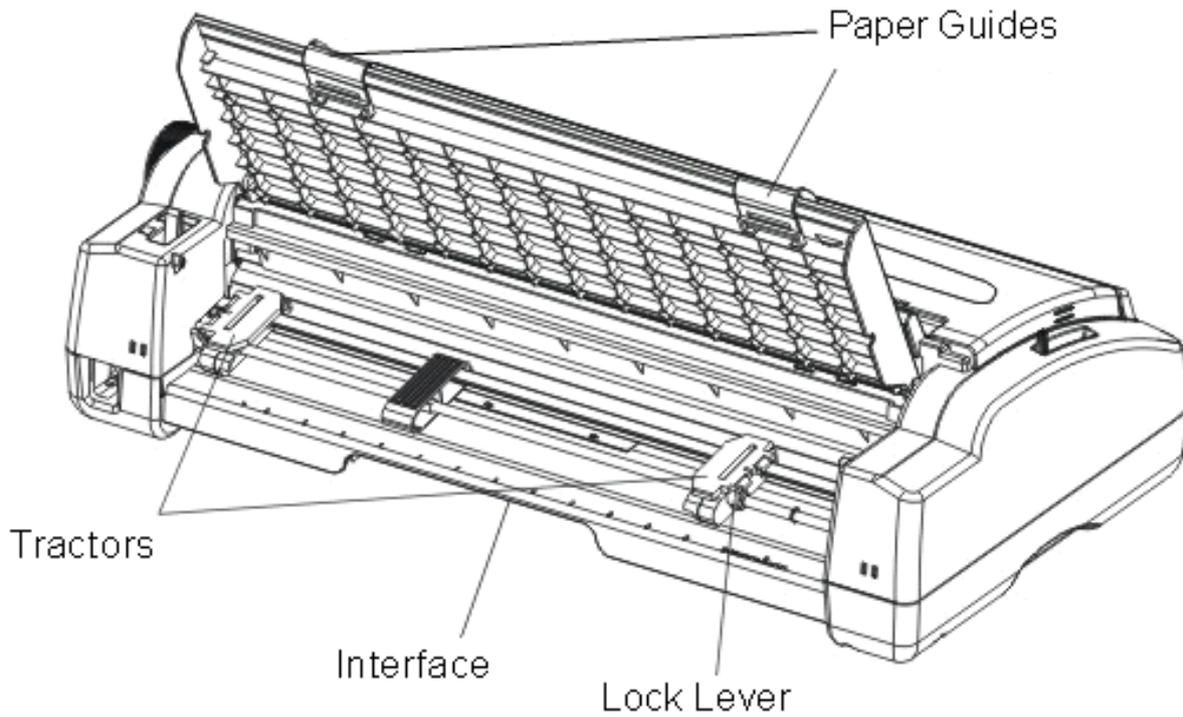
Component	Function
Gap Lever	Controls printing impact or density. Adjusts the print gap lever according to the thickness of paper.
Paper Guides	Adjusts positioning of single sheet paper.
Print Head	24-pin printing mechanism
Cover	Protects print head and other components inside, and reduce noise.
Control Panel	Shows printer status, for printer setup.
Paper Feed Lever	Two positions: ▥ = continuous forms; ▢ = single sheet paper
Paper Feed Knob	Manual feed or vertical positioning of paper
Power Switch	Power printer ON or OFF
Ribbon Cartridge	Install ribbon in the printer.
Ribbon Frame	For guiding ribbon installation on print head.
Tractors	For feeding and adjustment of continuous forms.
Power Receptacle	Connects power cord to the printer.
Interface	Connects interface cables from the host.

2 Setting Up Printer

Install Ribbon

1. Ensure the power to the printer is off and the print gap lever "A" is set to the furthest open position. Move the carriage to the centre of the print platen.
2. Install the recess positions ① on the ribbon cassette into the printer mounting.
3. Press the ribbon frame ② onto the print head.
4. Turn the ribbon knob ③ in clockwise direction until the ribbon fabric is taut. Move the carriage left and right to ensure the carriage and ribbon fabric can move smoothly.
5. Ensure the print gap lever "A" is set to the original position.
6. Close the printer's top cover. When printer is in operation, ensure the printer's top cover is closed to keep the noise level to a minimum.
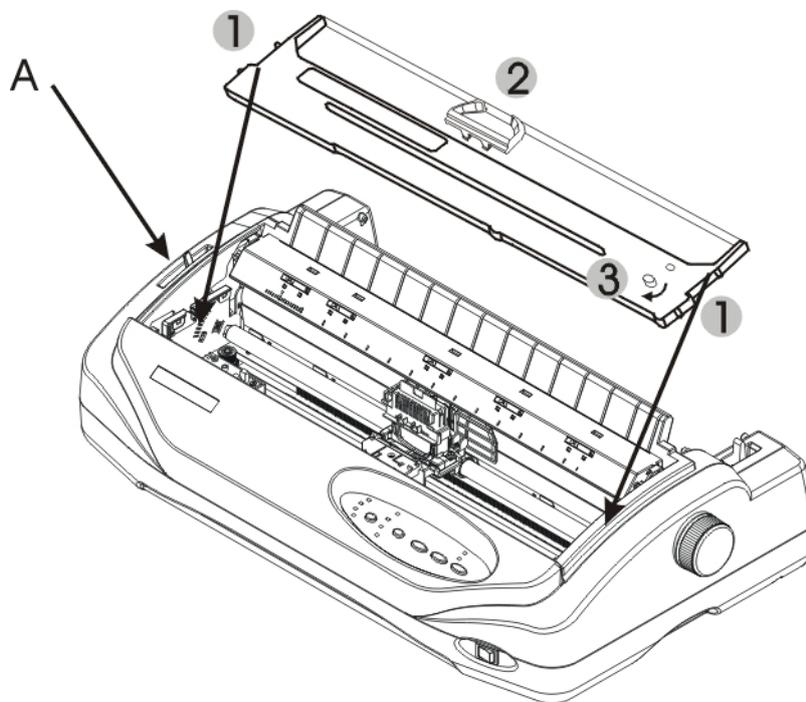
Notes on Ribbon Cartridge Removal:
1. Eject any paper loaded in the printer.
2. Turn off the printer power.
3. Open and remove the top cover.
4. Lift up the tear bar.
5. Set the gap lever to the most open position labeled "RIBBON".
6. Move the carriage to the middle. Be careful not to touch the print head if printing had just been performed, as the print head may be hot.
7. Remove the blue ribbon frame from the print head.
8. Use fingers to take hold of the handle on the ribbon cartridge firmly, and lift the cartridge upwards to unlatch it. Some force may be needed to unlatch the cartridge.

Install the Single Sheet Feeder

Install the single sheet feeder into the rear of the printer.
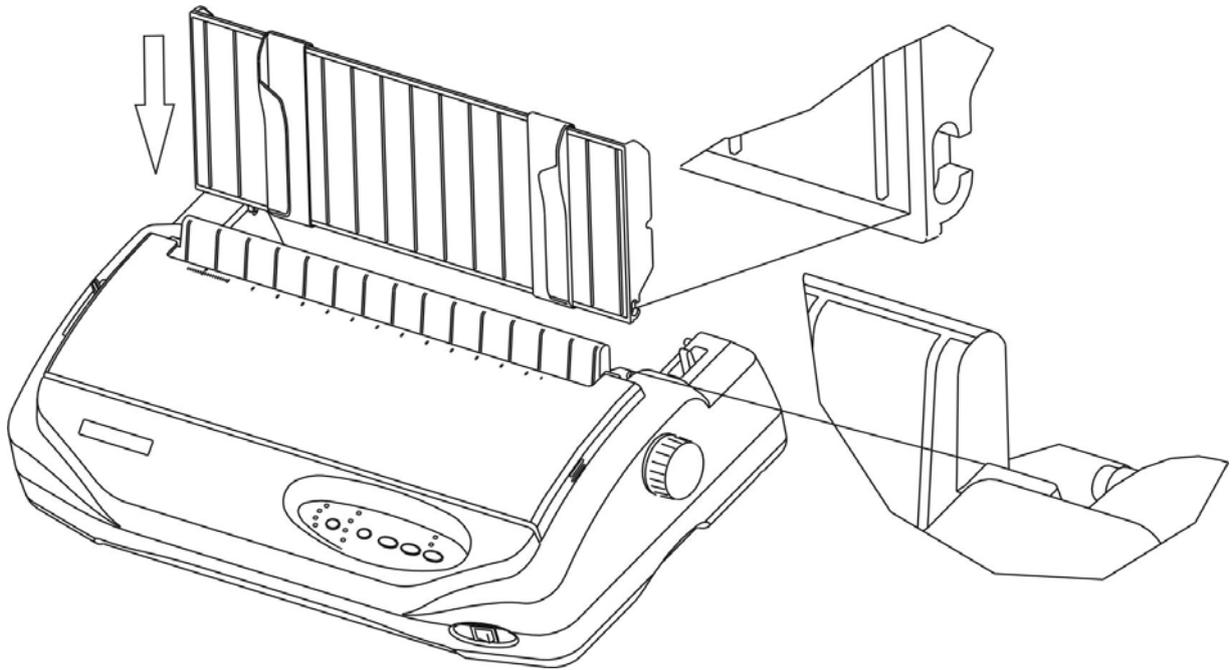
Connecting the Interface Cable

The 36-pin Centronics parallel and USB ports are located at the rear of the printer. IMPORTANT: Make sure the printer and the computer are switched off before connecting or disconnecting the interface cable to prevent electrical damage to the interface ports.

USB Cable

Parallel Cable
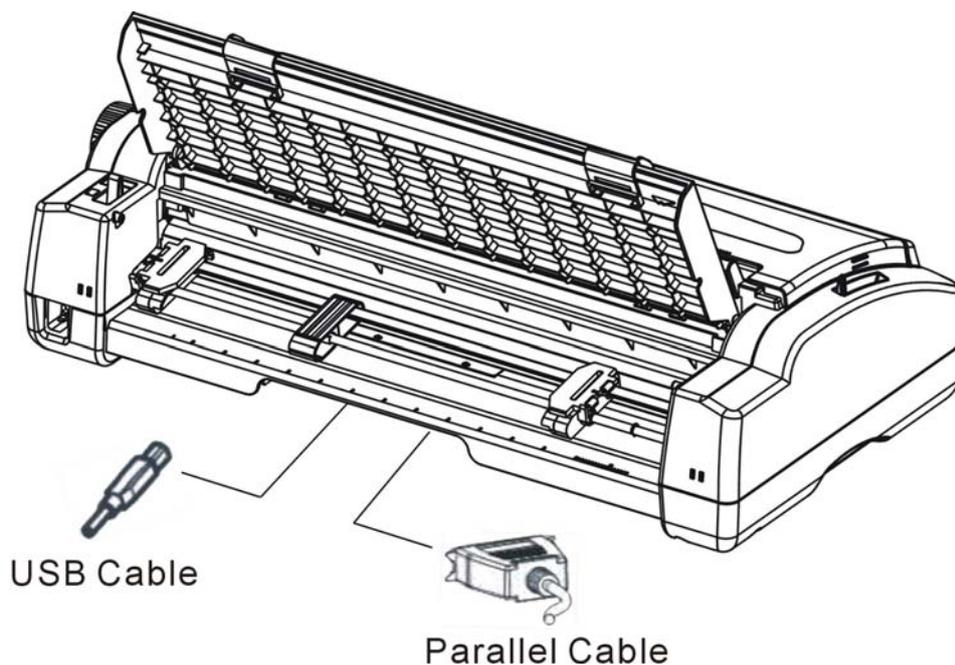
Connecting the Mains Power

Checking the printer voltage

Make sure that the device has been set according to your country's power supply voltage. To do this, check the rating plate at the back of the printer. Contact your dealer if the setting is incorrect.

⚠️ *Never switch on the printer if the voltage setting is incorrect; this may result in electrical damage to the printer.*
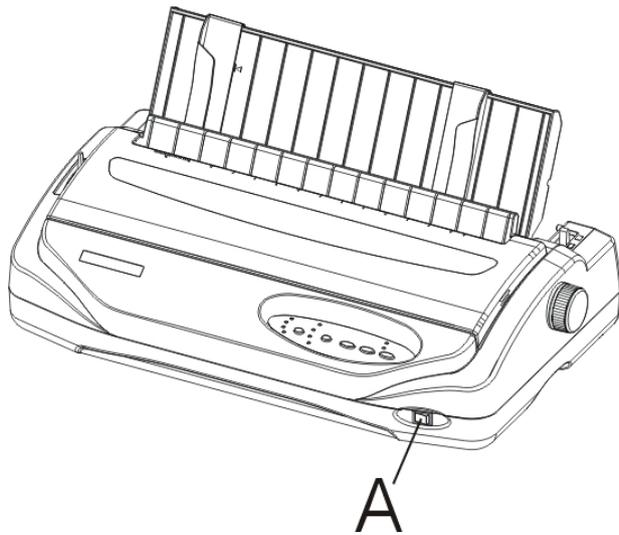
Make sure that the power switch "A", located to the right side of the printer, is in the "O" (off) position.
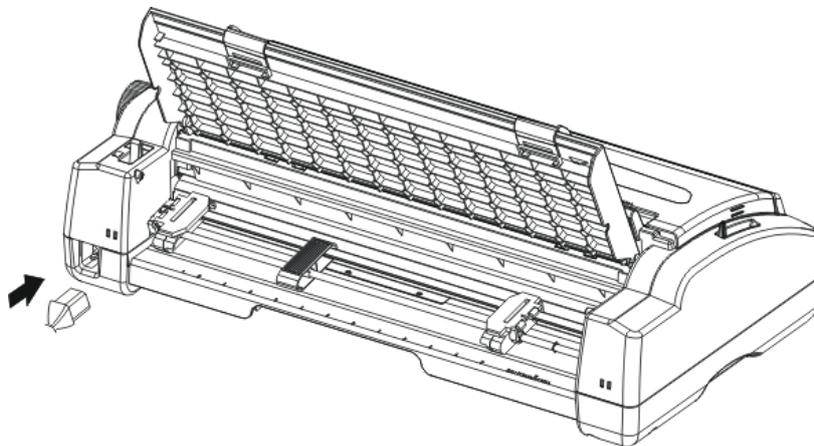
Connect the power cord to the power inlet of the printer. Connect the power cord plug to a mains socket. Switch on the printer.

Installing the Windows Driver

(Windows 2000/2003/2008 Server/XP/Vista/7)

1. Your printer CDROM comes with Windows drivers. Go to the Drivers folder and run the Installer "DriverSetup.exe". You will see the screen on the right. Click "Next" to continue.
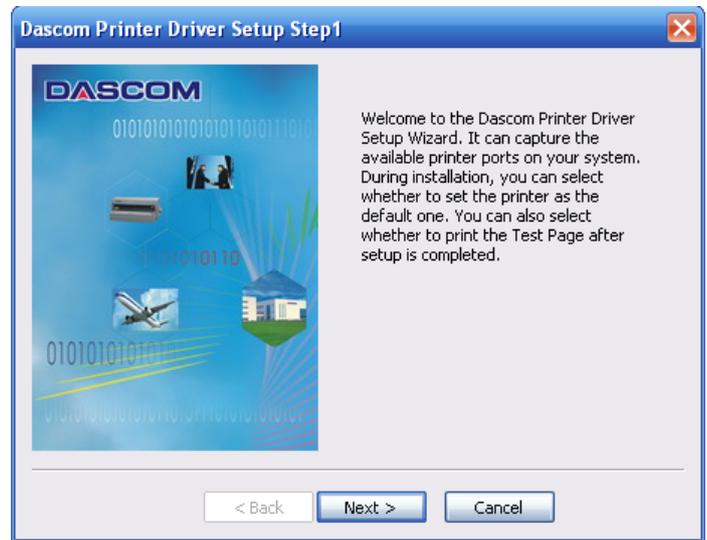
2. A list of ports available on your system will be displayed as shown on the right. Choose the desired port to use. Click "Next" to continue.
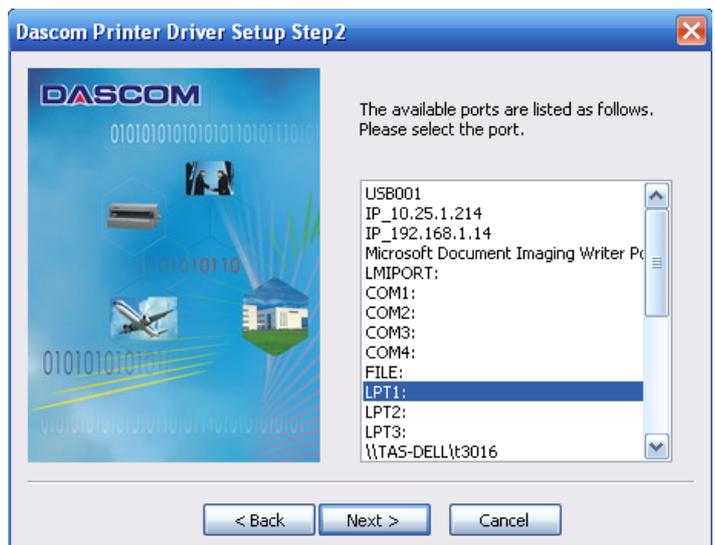
3. Select the desired printer model as shown on the right. Click "Next" to continue.
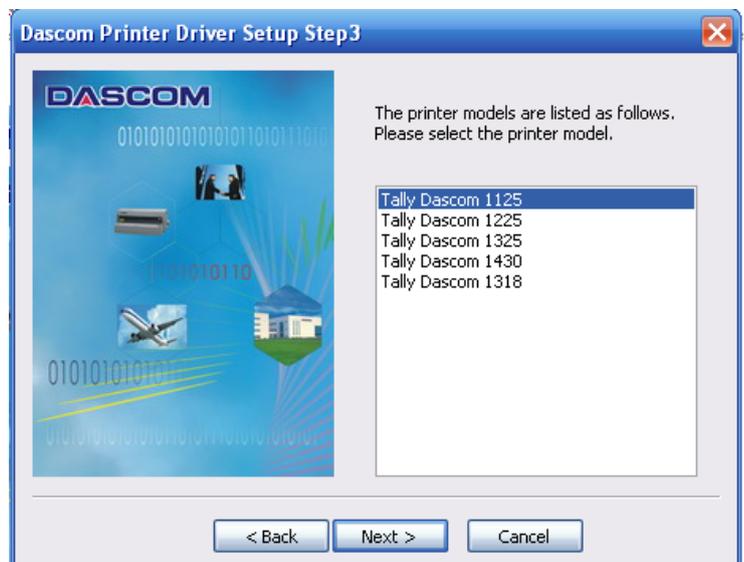
4. Here you can choose whether to set the driver as the system default driver, and whether you want to print the Test Page after installation is completed. If the driver had been installed before, it would be listed in the white box on the right. Select the listed driver (if any) if you want to replace it; otherwise a copy of the driver will be installed. Click "Next" to continue.
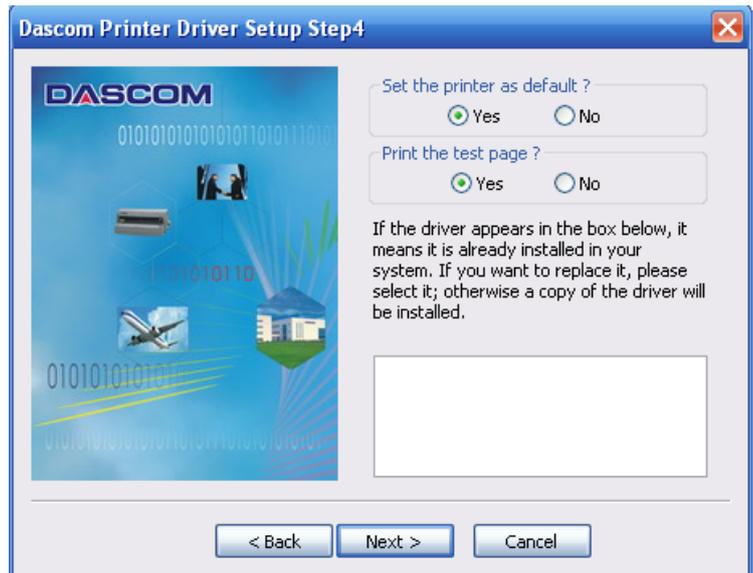
5. Click "Finish" to start the installation process.

6. If the driver is not yet Microsoft Certified, the message on the right would appear. Click "Continue Anyway". (As we continue to expand our product portfolio, not all of our drivers may be certified yet. Please check our website www.dascom.com for the latest certified drivers.)
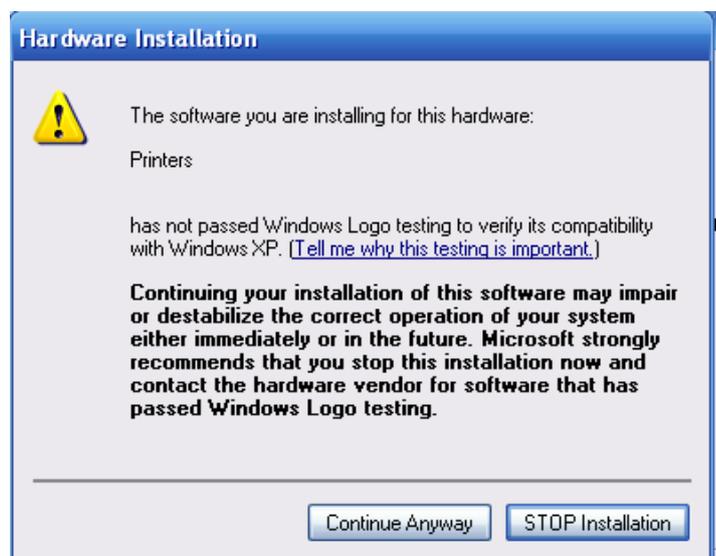
7. Installation in progress.
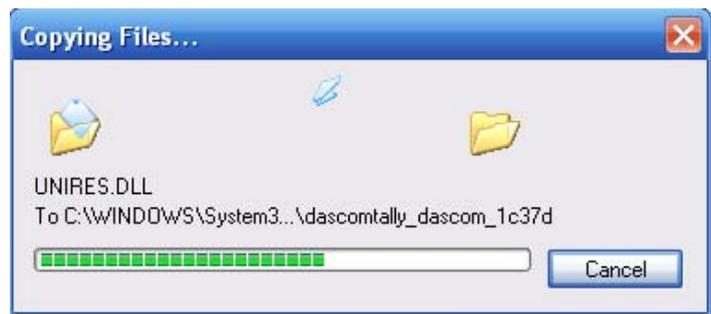
8. After installation is completed successfully, you will see the message on the right.

3 Paper Installation Guide

The printer can handle either single sheets or continuous forms. Single sheets, also called cut sheets, include envelopes and non-continuous, multipart forms. Continuous forms include labels and multipart forms fed into the printer using the forms tractors. The printer is able to print 1~5 plies multipart paper.

Do not load paper that has been folded or is damaged, wrinkled, or curled.

Adjusting the Print Gap Lever

The print gap lever is on the left side of the printer. Take care to adjust the print gap lever to a suitable position whenever you change the number of copies being printed. Using the wrong print gap may cause print head damage or paper jams.
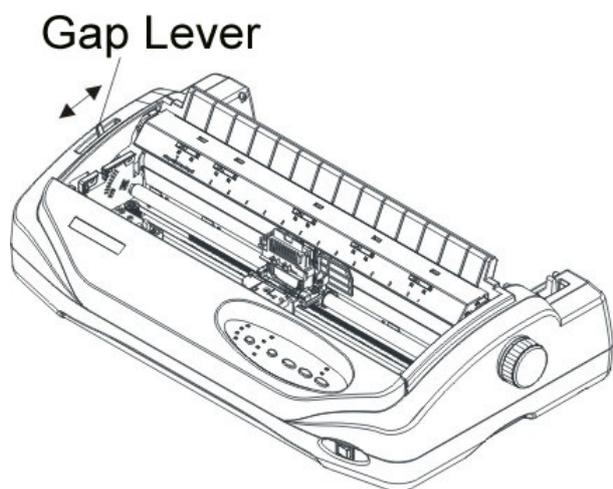
Paper type	Weight (g/m^2) / ply	Thickness (mm)	Gap lever position
Single sheet	52～100	0.06～0.12	1P～2P
2-ply	40～52	0.12～0.14	
3-ply	40～52	0.17～0.22	3P～4P
4-ply	40～52	0.23～0.27	
5-ply	40～52	0.28～0.33	5P
Change ribbon	---	Above 0.45	

There are 2 paper feed modes: friction feed and tractor feed.

Friction Feed Handling

1. Move the paper-feed lever forward to " ☐ " for friction feed mode.
2. Adjust the print gap lever if necessary.

3. Raise the single sheet feeder until it locks into its mounting. Align the left paper guide with the mark on the left of the single sheet feeder. Adjust the right paper guide to the width of the paper used.

4. Insert a sheet of paper. Make sure that the bottom edge of the paper engages snugly with the platen.

5. The paper should advance automatically to the print position. The printer is now ready to print in the online state.
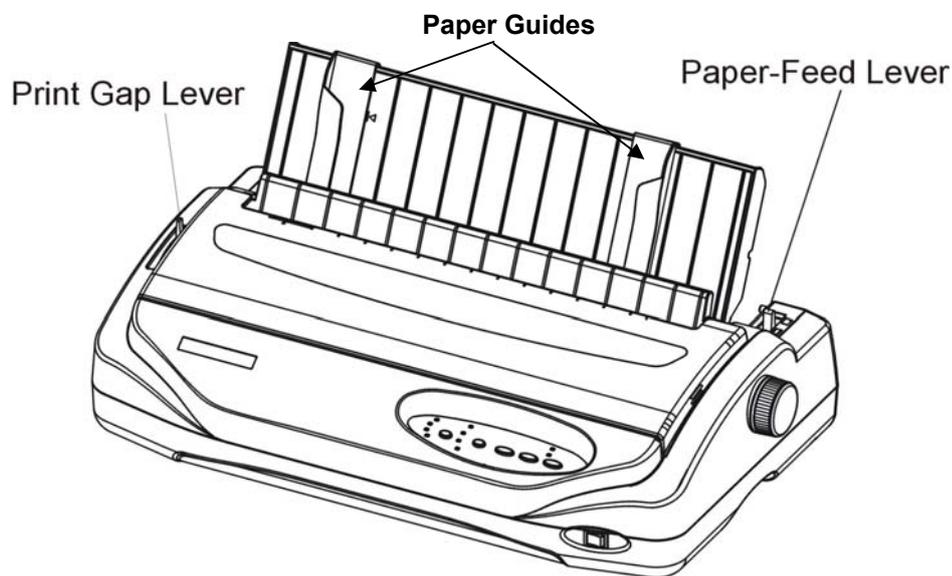
Tractor Feed Handling

1. Move the paper-feed lever backward to " " for continuous paper position.

2. Adjust the print gap lever if necessary.

3. Raise the tractor doors and fit the first 3 paper holes onto the left tractor pins. Close the left tractor door. In the same way, install the paper on the right tractor.

4. Adjust the right tractor to the width of the paper until the paper is flat. Do not stretch the paper too taut. Push the right lock lever down to secure the right tractor in place.

5. Press the 【Load/Eject】 key to load the paper to the starting print position. The printer is now ready to print in the online state.
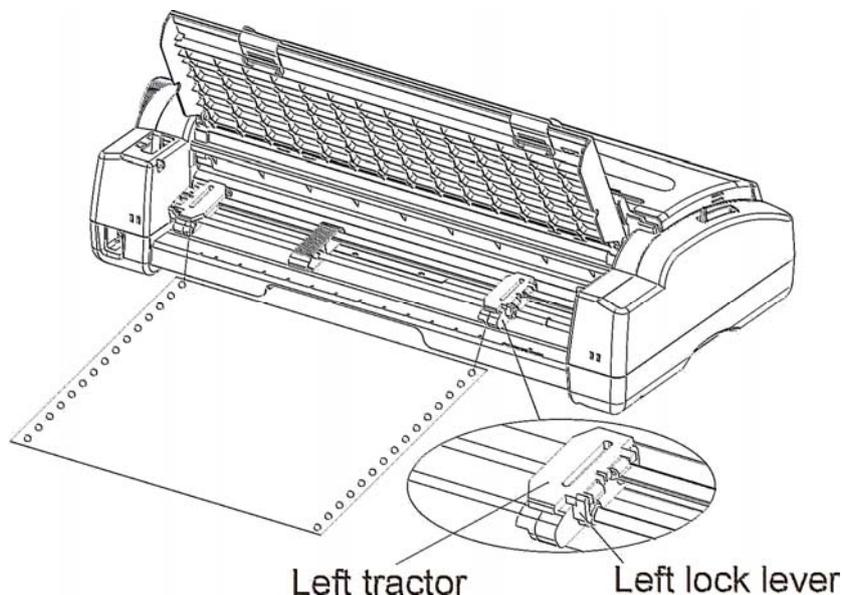
Continuous Paper Placement

1. Place the printer on a solid base. The minimum suitable height of the solid base is 75 cm.
2. Left and right positioning: The direction of continuous paper should be parallel with the paper guide. The tolerance should be less than 3 cm.
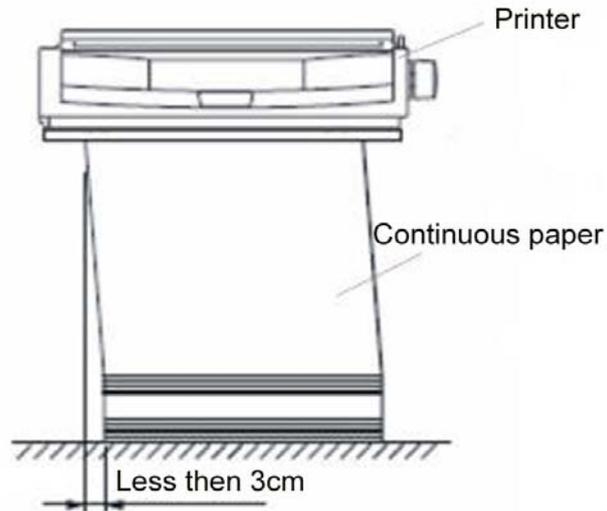
3. Front and back positioning: The distance between the rear of printer and the wall should be more than 60 cm. To avoid paper jam, the distance between the continuous paper and the edge of desk should be 10~15 cm.
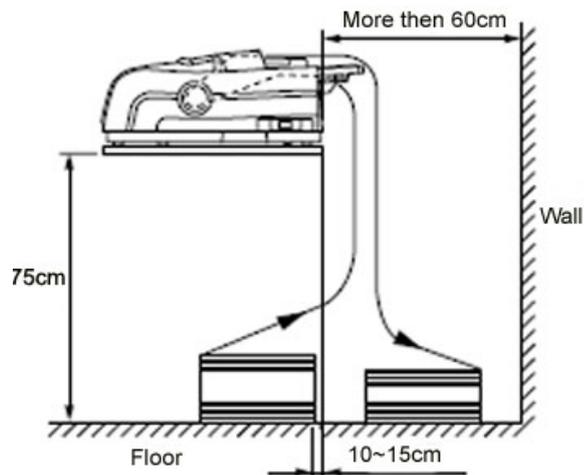
4 Control Panel Operation
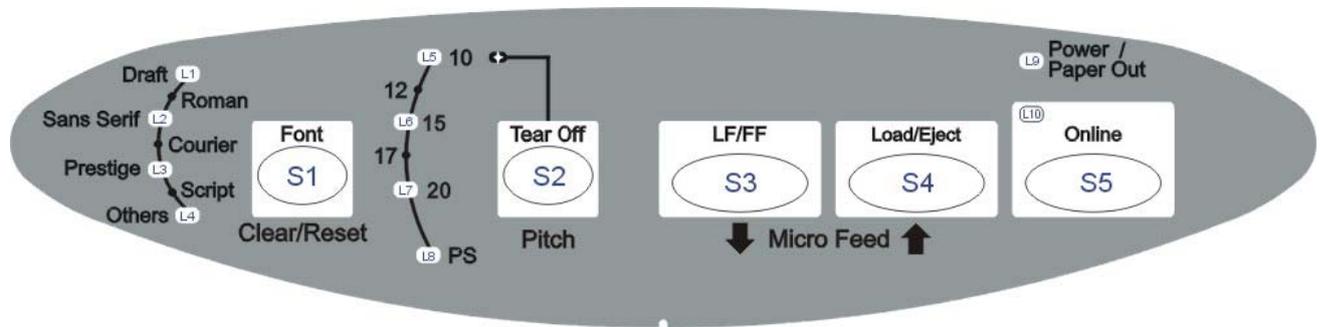
There are 5 switches S1~S5 and 10 LEDs L1~L10. The meaning and application of each switch and LED are described below.

LED Indicators

"Power/Paper Out" LED:

On: Power on

Flashing: Paper out

Flashing + buzzer: Paper jam

"Online" LED:

On: The printer is in online state and ready to receive data from the computer.

Off: The printer is in offline state and cannot receive data.

"Pitch" LEDs:

On: Indicates the selected pitch.

"Font" LEDs:

On: Indicates the selected font.

Control Panel Keys

"Online" Key:

This key switches the printer between online and offline states. Printing is stopped when the printer is switched to offline state. When printer is switched to online state again, printing will resume.

"Load/Eject" Key:

When paper is loaded, pressing this key will eject the paper (single sheet mode) or park the paper (continuous paper mode). When paper is not loaded, pressing this key will load the paper to the starting print position.

"LF/FF" Key:

Pressing this key will feed paper one line forward. By holding down this key, the printer will initially feed a few lines, then perform a form feed (continuous paper mode) or eject the form (single sheet mode).

"Tear Off" Key:

When online, this key will move any loaded continuous paper to the tear-off position. When offline, this key is used to select the desired pitch.

"Font" Key:

When offline, this key is used to select the desired font.

Table 4.1

Switch	Top Label	Bottom Label
S1	Font	Clear/Reset
S2	Tear Off	Pitch
S3	LF/FF	Micro Feed Down
S4	Load/Eject	Micro Feed Up
S5	Online	-

Table 4.2

LED	Function
L1	Draft
L2	Sans Serif
L3	Prestige
L4	Others
L1, L2	Roman
L2, L3	Courier
L3, L4	Script
L5	10CPI / Tear Off
L6	15CPI
L7	20CPI
L8	PS
L5, L6	12CPI
L6, L7	17CPI
L9	Power/Paper Out
L10	Online

Panel Operation

There are 3 states of operation: Online, Offline and Power On.

In the Online state, the keys provide the following functions: Go to Tear Off position, Line Feed/Form feed, Load/Eject, and switch to Offline state.

In the Offine state, the keys provide the following functions: Font select, Pitch select, Line Feed/Form feed, Load/Eject, and switch to Online state, micro feed, control PE (paper error) sensitivity, clear buffer and restore factory defaults.

To enter the Power On state, the user holds down a key or a combination of keys while powering up the printer. This state provides the following functions: Main Menu setup, Hex-dump, print Main Menu, access Service Menu, adjust page margins, restore factory defaults, and firmware update.

The followings describe the 3 states in details.

Legend:
[A] = press and hold switch A
{B} = press and then release switch B
[A]+ {B} = press switch B while holding A

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Online State

Function Name	Switch Operation	LED	Function Description
Online	{S5}	L10	Toggles between Online and Offline states
Load/Eject	{S4}	-	• Load: Automatically loads the paper (according to path selection) when no paper is on the platen. • Eject: For rear tractor, it retracts the form from the platen to allow users to install cut sheets. (NOTE: Users have to toggle the path selection lever.) For cut sheets, it ejects the form on the platen.
LF	{S3}	-	Feeds a line with every press of S3.
FF	[S3]	-	By holding S3, the printer initially feeds a few lines; then feeds the form to the next TOF for rear tractor or ejects the form for cut sheets.
Tear Off	{S2}	L5 flashing	This is valid for tractor mode only. It feeds the form to the tear-off position. After tearing off the form, printing starts on the next TOF by: • pressing S2 once, or • receiving print data from the host.

Offline State

Function Name	Switch Operation	LED	Function Description
Font	{S1}	L1~L4	Selects the font.
Pitch	{S2}	L5~L8	Selects the pitch.
LF	{S3}	-	Feeds a line with every press of S3.
FF	[S3]	-	By holding S3, the printer initially feeds a few lines; then feeds the form to the next TOF for rear tractor or ejects the form for cut sheets.
Load/Eject	{S4}	-	• Load: Automatically loads the paper (according to path selection) when no paper is on the platen. • Eject: For rear tractor, it retracts the form from the platen to allow users to install cut sheets. (NOTE: Users have to toggle the path selection lever.) For cut sheets, it ejects the form on the platen.
Online	{S5}	L10	Toggles between Online and Offline states
Micro Forward	{S4}+[S5]	-	While holding down S5, press S4 to micro feed paper up.
Micro Reverse	{S3}+[S5]	-	While holding down S5, press S3 to micro feed paper down.
Activate user-defined sensitivity	[S2]+{S3}		Activates the calibrated PE sensor sensitivity value according to the currently selected paper path. Beeps once when completed.

Calibrate PE sensor sensitivity	{S1}+[S2]	-	• Out-of-paper: Beeps once. Automatically loads a form in 10 seconds. • Paper loaded: Calibrates PE sensor with paper loaded and save the sensitivity value. Beeps 5 times when completed. • [NOTE: There are 2 independent sensors for rear tractor and front friction.
Restore default PE sensor sensitivity	[S2]+{S4}		Resets PE sensor sensitivity to factory defaults. Beeps twice when completed.
Clear Buffer and Reset	{S1}+[S5]	-	• Clears the print buffer. Beeps once upon completion. • Pressing S1 longer initializes the printer to default settings. Beeps 3 times upon completion.

Power-On State

Function Name	Switch Operation	LED	Function Description
Menu Setup / EDS	[S2]	-	Allows for Main Menu setting changes. Please read the instructions printed on how to change settings when this mode is activated. (EDS: Electronic DIP Switch)
Hex Dump	[S4]	-	Beeps once to indicate going into hex dump mode: • Prints data from host in hexadecimal representation. • Pressing S4 suspends the printing. • When the hex dump has finished, pressing S4 forces the printing of the last line of data, as any line termination control code from host has no function. • Pressing S1 can change the font. • Switch off the power to terminate the hex dump.
Self Test / Status Page	[S5]	-	Prints the printer settings and self-test pattern. Pressing S1 can change the font.
Service Menu	[S2]+[S3]	-	Vertical Alignment, Change Pin Function and Endless Self Test
Adjust Page Margins	[S4]+[S5]	-	Includes Adjust Fanfold Top Margin, Adjust Single Top Margin, Adjust Fanfold Left Margin, Adjust Single Left Margin and Adjust Tear-Off position.

Restore Factory Defaults	[S1]+[S2]+[S4]	-	Restore settings to factory defaults except for Change Pin, Vertical Alignment and Adjust Page Margin Parameters.
Firmware Update	[S2]+[S3]+[S4]+ [S5]	-	• Alternate flashing of L9 and L10 indicates ready for firmware update from host. • When new firmware is being received: L1 and L2 will flash, followed by L1 and L3 flashing, then followed by L1 and L4 flashing. • When downloading is completed, the carriage returns to home position. Printer initializes normally.
Language Setup	[S3]+[S4]		• Allows user to select one of the following languages: English, German, Russian, Italian, French, Spanish and Turkish. Factory default is English. Refer to Language Setup section below for details.

Language Setup

The panel menu can display the following languages: English, German, Russian, Italian, French, Spanish and Turkish. Factory default setting is English. To change it to another language, hold down the **[LF/FF]** and **[Load/Eject]** keys on the panel and power-on. Upon exiting the Language Setup Menu, a listing of the current configuration is printed, and this is followed by Main Menu Setup.

Below is an example of changing from English to German language:

```
Panel switches in Language setup:
[Load/Eject] = Next Language  [Online] = Save & Exit
Funktion der Tasten im Sprachen Setup:
[Load/Eject] = Nächste Sprache  [Online] = Speichern & Exit
Функция клавиш в меню языков:
[Load/Eject] = Следующий язык  [Online] = Хранить & Выход
Pulsanti per impostazione Linguaggio
[Load/Eject] = Linguaggio Successivo  [Online] = Salva & Esci
Fonctions des touches dans Configuration Langue:
[Load/Eject] = Prochaine Langue  [Online] = Enregistrer & Quitter
Función de las teclas en el ajuste de Idioma
[Load/Eject] = Siguiente Idioma  [Online] = Guardar y Salvar
Kumanda Paneli Dil Ayarı Konumunda:
[Load/Eject] = Sonraki Dil  [Online] = Kaydet & Çık

  English   Deutsch

Deutsches Setup OK!
```

5. Printer Setting Changes

In order to meet individual print requirements, the printer configurations may be changed as follows: Hold down the Tear Off key while powering on the printer, release the Tear Off key when the print head starts to move. The printer will enter Main Menu setup state. Follow the instructions printed on how to make setting changes. When a new setting is saved, it is retained after the printer has been powered off.

The Main Menu is grouped into 5 sub-menus: System Setup, Page Setup, Print Setup, Interface Setup and Advanced Setup. A detailed description of the sub-menus is given below. The settings in bold and italic refer to the default settings.

System Setup

System Setup	Valid Settings	Function
Emulation	*ESC/P2,* IBM 2390 Plus	Selects the printer emulation. This should be the same as the host printer driver.
Auto CR (IBM)	Yes, *No*	Yes: LF = LF+CR; No: LF = LF (Applies to IBM emulation only)
Auto LF	Yes, *No*	Yes: CR = CR+LF; No: CR = CR
Print Dir	*Bi-Dir,* Uni-Dir, Auto	Auto: Text & graphics in bi-direction; double height in uni-direction. Uni-Dir: Prints everything in uni-direction. Bi-dir: Prints everything in bi-direction. Note: Top position print direction may be affected by Top Print Dir setting.
Top Print Dir	*Bi-Dir,* Uni-Dir	Bi-dir: Prints top position according to Print Dir setting. Uni-dir: Prints top position in uni-direction regardless of Print Dir setting.
Impact	*Normal,* Heavy	Heavy: Higher impact force for multipart printing
IBM AGM	Yes, *No*	Selects the IBM graphic mode. Applies to IBM emulation only

Print Setup

Print Setup	Valid Settings	Function
Font (Others)	OCR-B, OCR-A, ORATOR, GOTHIC, *SOUVENIR*	When Font is set to "Others" on control panel, OCR-B, OCR-A, ORATOR, GOTHIC fonts are selectable.
Pitch	*10cpi,* 12cpi, 15cpi, 17cpi, 20cpi, PS	Controls the characters per inch setting.
Zero	*0*,Ø	Selects slashed or no-slash zero.

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HS-Draft	*On*, Off	On: Prints High Speed Draft when Draft font is selected.
Graphic Speed	*Normal,* Fast, Ultra	When printing 180x180 DPI graphics: Normal – prints in 180x180 DPI, Fast – prints in 90x180 DPI, Ultra – prints in 60x180 DPI.
IBM Set 1/2	Set 1, *Set 2*	Selects the IBM character set. 1: Normal; 2: Extended
Int'l Char Set	*USA,* France, Germany, UK, Denmark, Sweden, Italy, Spain, Japan, Norway, Denmark II, Spain II, Latin AM, Korea, Legal	14+1 international character set selections
Code Page	1. *CP 437* 2. CP 737 3. CP 850 4. CP 851 5. CP 852 6. CP 857 7. CP 858 8. CP 860 9. CP 861 10. CP 863 11. CP 864 12. CP 864 Extended 13. CP 865 14. CP 866 Cyrillic 15. CP 866 Bulgaria 16. CP 1250 17. CP 1251 18. CP 1252 19. CP 1253 20. CP 1254 21. 8859-1 22. 8859-1 (SAP) 23. 8859-2 24. 8859-5 25. 8859-7 26. 8859-9 27. 8859-15 28. BRASCII 29. Abicomp	National code page selections

	30. Roman8 31. Coax/Twinax 32. New-437 33. New-Dig 850 34. Old-Code 860 35. Flarro 863 36. 865 Hebrew 37. CP 1257 38. 866 Ukraine 39. 866 Kazakhstan 40. Kamenicky 41. Mazovia 42. CP 775 43. CRO-ASCII 44. Arabic Farsi 45. Arabic Urdo 46. Greek DEC 47. Greek ELOT 928	
Character Table	***Graphic Table,*** Italic Table	Character table type selection

Page Setup

Page Setup	Valid Settings	Function
Print Width	***13.6",*** 8"	Printable width options
Line Per Inch	1, 2, 3, 4, 5, **6**, 7, 8	Sets the line spacing
Fanfold Form Length	3",3.5",11/3", 4", 5", 5.5" 6",7",8", 8.5",***11″***, 70/6", 12", 14", 17"	Sets the page length for tractor mode
Fanfold Top Margin	0/60" … ***10/60″***…99/60"	Sets the top margin for tractor mode. Due to mechanical tolerance, 0/60" is not guaranteed.
Fanfold Bottom Margin	0/60"…***10/60″***...30/60"	Sets the bottom margin for tractor mode. Due to mechanical tolerance, 0/60" is not guaranteed.
Single Form Length	3", 3.5", 11/3", 4", 5", 5.5", 6", 7", 8", 8.5", ***11″***, 70/6", 12", 14", 17"	Sets the page length for friction mode
Single Top Margin	0/60" … ***10/60″***…99/60"	Sets the top margin for friction mode. Due to mechanical tolerance, 0/60" is not guaranteed.
Single Bottom Margin	0/60"…***10/60″***...30/60"	Sets the bottom margin for friction mode. Due to mechanical tolerance, 0/60" is not guaranteed.
Roll Paper	Yes, ***No***	In friction mode, [LF/FF] will not eject the paper and feed to next page. (Assume roll paper)
Perforation Skip	Yes, ***No***	Skips printing on perforation area

		Specifies the waiting time before feeding the page to tear-off position automatically. Manual: Auto tear mode is off. (Applies to tractor mode only)
Auto Tear	***Manual,*** 0.5s, 1s, 2s, 3s, 4s, 5s	

Interface Setup

Interface Setup	Valid Settings	Function
Interface	***Auto,*** Parallel, USB	For multi-host connection. Auto: First come first served; Parallel/USB: Serves the designated host only.
RAM Usage	***User Font,*** Buffer	User Font: Part of RAM is used for user download characters; Buffer: Disables user character download function; uses RAM for expanded buffer size up to 48KB.
I-PRIME	***Yes,*** No	Yes: Host I-Prime signal resets the printer.
Auto IF Delay	***10s,*** 30s	Determines the waiting time before receiving data from another interface.

Advanced Setup

Advanced Setup	Valid Settings	Function
Auto Load	Manual, ***0.5s,*** 1s, 1.5s, 2s	Specifies the waiting time before loading a cut sheet automatically. Manual: Auto load mode is off. (Applies to friction mode only)
Paper Jam Prevention	***Yes,*** No	Flattens paper edges by carriage movement before printing starts.
Paper End Detect	***Yes,*** No	Yes: Detects paper out and halts printing; otherwise, ignores paper out and continues printing.
Form Length Ctrl	***Software,*** Ignore	Ignore: Ignores form length commands
Pitch Ctrl	***Software,*** Ignore	Ignore: Ignores CPI commands
Font Ctrl	***Software,*** Ignore	Ignore: Ignores font select commands
Quality Ctrl	***Software,*** Ignore	Ignore: Ignores print quality commands
Buzzer	***Yes,*** No	Yes: Sounds buzzer on all hardware errors

German (Deutsch)

System Setup	Valid Settings
Emulation	*ESC/P2*, IBM 2390 Plus
Auto CR (IBM)	Ja, *Nein*
Auto LF	Ja, *Nein*
Druck Dir	*Bi-Dir*, Uni-Dir, Auto
Top Druck Dir	*Bi-Dir*, Uni-Dir
Anschlag	*Normal*, Stark
IBM AGM	Ja, *Nein*

Druck Setup	Valid Settings
Font (Andere)	OCR-B,OCR-A,ORATOR,GOTHIC,*SOUVENIR*
Zeichenteilung	*10cpi*, 12cpi, 15cpi, 17cpi, 20cpi, PS
Null	*0*,Ø
HS-Draft	*An*, Aus
Graphikgeschw.	*Normal*, Schnell, Ultra
IBM Set ½	*Set 1*, **Set 2**
Land	*USA*, France, Germany, UK, Denmark, Sweden, Italy, Spain, Japan, Norway, Denmark II, Spain II, Latin AM, Korea, Legal
Zeichensatz	*CP 437*, CP 857…
Zeichentabelle	*Graphik*, Italic

Seiten Setup	Valid Settings
Druckbreite	*13.6"*, 8"
Zeilen Pro Zoll	1, 2, 3, 4, 5, *6*, 7, 8
Endlos Formularlänge	3",3.5",11/3", 4", 5", 5.5" 6",7",8", 8.5",*11"*, 70/6", 12", 14", 17"
Endlos Oberer Rand	0/60" … *10/60"*…99/60"
Endlos Unterer Rand	0/60"…*10/60"*...30/60"
Einzel Formularlänge	3", 3.5", 11/3", 4", 5", 5.5", 6", 7", 8", 8.5", *11"*, 70/6", 12", 14", 17"
Einzel Oberer Rand	0/60" … *10/60"*…99/60"
Einzel Unterer Rand	0/60"…*10/60"*...30/60"
Rollenpapier	Ja, *Nein*
Perforationssprung	Ja, *Nein*
Abreissen	*Manuell*, 0.5s, 1s, 2s, 3s, 4s, 5s

Schnittstellen Setup	Valid Settings
Schnittstelle	*Auto*, Parallel, USB
I-PRIME	*Ja*, Nein
Auto IF Delay	*10s*, 30s

RAM Nutzung	*Ladbarer Font*, Puffer

Erweitertes Setup	**Valid Settings**
Auto Laden	Manuell, *0.5s*, 1s, 1.5s, 2s
Papierstau Vorbeugung	*Ja*, Nein
Papierende Detekt	*Ja*, Nein
Formularlänge Strg	*Software*, Ignoriere
Zeichenteilung Strg	*Software*, Ignoriere
Font Strg	*Software*, Ignoriere
Qualität Strg	*Software*, Ignoriere
Summer	*Ja*, Nein

Russian (Россия)

Системные установки	**Valid Settings**
Эмуляция	*ESC/P2*, IBM 2390 Plus
Авто CR (IBM)	Да, *Нет*
Авто LF	Да, *Нет*
Направление печати	*Двунаправленная*, Однонаправленная, Авто
Направление печати загл. букв	*Двунаправленная*, Однонаправленная
Удар	*Нормальный*, Сильный
IBM AGM	Да, *Нет*

Настройка печати	**Valid Settings**
Дополнительный шрифт	OCR-B,OCR-A,ORATOR,GOTHIC,*SOUVENIR*
знаков/дюйм	*10cpi*, 12cpi, 15cpi, 17cpi, 20cpi, PS
Перечеркнутый ноль	*0*,Ø
Высокая скорость	*Вкл*, Выкл
Скорость графики	*Нормальная*, Быстрая, Очень быстрая
Символы IBM 1/2	Уст. 1, *Уст. 2*
Набор знаков	*USA*, France, Germany, UK, Denmark, Sweden, Italy, Spain, Japan, Norway, Denmark II, Spain II, Latin AM, Korea, Legal
Кодовая таблица	*CP 437*, CP 857…
Таблица знаков	*Графика*, Курсив

Параметры страницы	**Valid Settings**
Ширина печати	*13.6"*, 8"
Строк на дюйм	1, 2, 3, 4, 5, *6*, 7, 8
Длина формы для непрерывной бумаги	3",3.5",11/3", 4", 5", 5.5" 6",7",8", 8.5",*11"*, 70/6", 12", 14", 17"
Отступ сверху для непрерывной	0/60" … *10/60"*…99/60"

бумаги	
Отступ снизу для непрерывной бумаги	0/60"…**10/60"**...30/60"
Длина формы для отдельных листов	3", 3.5", 11/3", 4", 5", 5.5", 6", 7", 8", 8.5", **11"**, 70/6", 12", 14", 17"
Отступ сверху для отдельных листов	0/60" … **10/60"**…99/60"
Отступ снизу для отдельных листов	0/60"…**10/60"**...30/60"
Рулонная бумага	Да, **Нет**
Пропуск перфорации	Да, **Нет**
Авто прогон	**Ручной**, 0.5s, 1s, 2s, 3s, 4s, 5s

Установки интерфейса	Valid Settings
Интерфейс	**Авто**, Паралел, USB
Паралел. порт	**Да**, Нет
Время ожидания	**10s**, 30s
Назначение RAM	**Пользов. шрифт**, Буфер

Дополнительные установки	Valid Settings
Автозагрузка	Ручная, **0.5s**, 1s, 1.5s, 2s
Датчик движ. бумаги	**Да**, Нет
Датчик конца бумаги	**Да**, Нет
Контоль длины формы	**Програмный**, Игнор.
Контроль знаков/дюйм	**Програмный**, Игнор.
Контроль шрифта	**Програмный**, Игнор.
Контроль качества	**Програмный**, Игнор.
Звук	**Да**, Нет

Italian (Italiano)

Menu Sistema	Valid Settings
Emulazione	**ESC/P2**, IBM 2390 Plus
Auto CR (IBM)	Si, **No**
Auto LF	Si, **No**
Direz. Stampa	**Bi-Dir**, Uni-Dir, Auto
Top Print Dir	**Bi-Dir**, Uni-Dir
Impatto	**Normale**, Pesante
IBM AGM	Si, **No**

Menù Stampa	Valid Settings
Fonte (Altre)	OCR-B,OCR-A,ORATOR,GOTHIC,**SOUVENIR**
Spaziatura	**10cpi**, 12cpi, 15cpi, 17cpi, 20cpi, PS

Zero	**0**,Ø
HS-Bozza	**Si**, No
Veloc. Grafica	**Normale**, Veloce, Ultra
IBM Set 1/2	Set 1, **Set 2**
Set Carat. Int.	**USA**, France, Germany, UK, Denmark, Sweden, Italy, Spain, Japan, Norway, Denmark II, Spain II, Latin AM, Korea, Legal
Code Page	**CP 437**, CP 857…
Tab.Carattere	**Tab. Grafica**, Italico

Menù Pagina	Valid Settings
Larghezza di stampa	**13.6″,** 8″
Interlinea	1, 2, 3, 4, 5, **6**, 7, 8
Lungh. Mod. Continuo	3″,3.5″,11/3″, 4″, 5″, 5.5″ 6″,7″,8″, 8.5″,**11″**, 70/6″, 12″, 14″, 17″
Margine Sup. Continuo	0/60″ … **10/60″**…99/60″
Margine Inf. Continuo	0/60″…**10/60″**...30/60″
Lunghezza Foglio	3″, 3.5″, 11/3″, 4″, 5″, 5.5″, 6″, 7″, 8″, 8.5″, **11″**, 70/6″, 12″, 14″, 17″
Margine Sup. Foglio	0/60″ … **10/60″**…99/60″
Margine Infer. Foglio	0/60″…**10/60″**...30/60″
Rullo Carta	Si, **No**
Salto Perforazione	Si, **No**
Autostrappo	**Manuale**, 0.5s, 1s, 2s, 3s, 4s, 5s

Menù Interfacc.	Valid Settings
Interfaccia	**Auto**, Parallela, USB
I-PRIME	**Si**, No
Ritardo Auto IF	**10s**, 30s
Uso RAM	**Fonti utente**, Memoria

Menù Avanzato	Valid Settings
Autocaricamento	Manuale, **0.5s**, 1s, 1.5s, 2s
Previene Inceppamento	**Si**, No
Rileva Fine Carta	**Si**, No
Control. Lungh. Carta	**Software**, Ignora
Control. Spaziatura	**Software**, Ignora
Controllo Fonti	**Software**, Ignora
Controllo Qualità	**Software**, Ignora
Cicalino	**Si**, No

French (Français)

Setup système	Valid Settings

Emulation	*ESC/P2*, IBM 2390 Plus
RC-Auto (IBM)	Oui, *Non*
SL-Auto	Oui, *Non*
Dir Impr.	*Bidir*, Unidir, Auto
Sup. Dir Impr.	*Bidir*, Unidir
Frappe	*Normal*, Forte
IBM AGM	Oui, *Non*

Setup impression	Valid Settings
Polices (Autres)	OCR-B,OCR-A,ORATOR,GOTHIC,*SOUVENIR*
Densités caract.	*10cpi*, 12cpi, 15cpi, 17cpi, 20cpi, PS
Zéro	*0*,Ø
HS-Draft	*Oui*, Non
Vitesse graphiq.	*Normal*, Rapide, Ultra
IBM Set 1/2	Set 1, *Set 2*
Pays	*USA*, France, Germany, UK, Denmark, Sweden, Italy, Spain, Japan, Norway, Denmark II, Spain II, Latin AM, Korea, Legal
Jeu de caractèr.	*CP 437*, CP 857…
Tabl.de caract.	*Graphque*, Italique

Setup page	Valid Settings
Largeur d'impression	*13.6"*, 8"
Lignes par pouce	1, 2, 3, 4, 5, *6*, 7, 8
Papier continu Longueur formulaire	3",3.5",11/3", 4", 5", 5.5" 6",7",8", 8.5", *11"*, 70/6", 12", 14", 17"
Papier continu Bord supérieure	0/60" … *10/60"*…99/60"
Papier continu Bord inférieure	0/60"…*10/60"*...30/60"
Feuille à feuille Longueur formulaire	3", 3.5", 11/3", 4", 5", 5.5", 6", 7", 8", 8.5", *11"*, 70/6", 12", 14", 17"
Feuille à feuille Bord supérieur	0/60" … *10/60"*…99/60"
Feuille à feuille Bord inférieur	0/60"…*10/60"*...30/60"
Papier du rouleau	Oui, *Non*
Sauter la perforation	Oui, *Non*
Coupe Auto	*Manuel*, 0.5s, 1s, 2s, 3s, 4s, 5s

Setup interface	Valid Settings
Interface	*Auto*, Parallel, USB
I-PRIME	*Oui*, Non
Auto IF Delay	*10s*, 30s
Utilisation RAM	*User Font*, Buffer

Setup élargi	Valid Settings
Chargem. Autom.	Manuel, *0.5s*, 1s, 1.5s, 2s

Prévention bourrage	*Qui*, Non
Détec.fin de pap	*Qui*, Non
Long.formul.Strg	*Software*, Ignorer
Densi.caract.Strg	*Software*, Ignorer
Police Strg	*Software*, Ignorer
Qualité Strg	*Software*, Ignorer
Vibrateur	*Qui*, Non

Spanish (Español)

System Setup	Valid Settings
Emulación	*ESC/P2*, IBM 2390 Plus
Auto CR(IBM)	Si, *No*
Auto LF	Si, *No*
ModoImpresión	*Bi-Dir*, Uni-Dir, Auto
ModoImp.Borde	*Bi-Dir*, Uni-Dir
Impacto	*Normal*, Fuerte
IBM AGM	Si, *No*

Print Setup	Valid Settings
Fuente (Otros)	OCR-B,OCR-A,ORATOR,GOTHIC,*SOUVENIR*
Tamaño Letra	*10cpp*, 12cpp, 15cpp, 17cpp, 20cpp, PS
Cero	*0*,Ø
Alta Velocidad	*Activado*, Desactivado
Imp. Grafica	*Normal*, Rápido, Ultra
IBM Juego 1/2	Juego 1, *Juego 2*
Carácter Local	*USA*, Francia, Alemania, UK, Dinamarca, Suecia, Italia, España, Japón, Noruega, Dinamarca II, España II, AmericaLatina, Corea, Legal
Tabla Carácter	*CP 437*, CP 857…
Tipo Tabla	*Tabla Gráfica*, Italica

Page Setup	Valid Settings
Ancho de Impresión	*13.6″,* 8"
Lineas Por Pulgada	1, 2, 3, 4, 5, *6*, 7, 8
Tamaño Papel Continuo	3",3.5",11/3", 4", 5", 5.5" 6",7",8", 8.5",*11″*, 70/6", 12", 14", 17"
Margen Sup. Pap Cont.	0/60" … *10/60″*…99/60"
Margen Inf. Pap.Cont.	0/60"…*10/60″*...30/60"
Tamaño Hojas Sueltas	3", 3.5", 11/3", 4", 5", 5.5", 6", 7", 8", 8.5", *11″*, 70/6", 12", 14", 17"
Margen Sup. Folios	0/60" … *10/60″*…99/60"

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Margen Inf. Folios	0/60"…**10/60″**...30/60"
Rollo de Papel	Si, **No**
Salto perforación	Si, **No**
Mover a PosiciónCorte	**Manual**, 0.5s, 1s, 2s, 3s, 4s, 5s

Interface Setup	Valid Settings
Interface	**Auto**, Paralelo, USB
I-Prime	**Si**, No
Auto retraso	**10s**, 30s
Uso de RAM	**Font Usuario**, Buffer

Advanced Setup	Valid Settings
Auto Carga	Manual, **0.5s**, 1s, 1.5s, 2s
Prevención Atascos	**Si**, No
Detección Fin Papel	**Si**, No
Control Tamaño Papel	**Software**, Ignorar
Control Tamaño Letra	**Software**, Ignorar
Control Fuente	**Software**, Ignorar
Control Calidad	**Software**, Ignorar
Alarma	**Si**, No

Turkish (Türkce)

Sistem Ayarı	Valid Settings
Benzetim/Emulation	**ESC/P2**, IBM 2390 Plus
Otom. Satırbaşı (IBM)	Evet, **Hayır**
Otom. Satır besleme	Evet, **Hayır**
Yazdırma yönü	**İki-Yöne**, Tek-Yöne, Otom.
Üstte yazdırma yönü	**İki-Yöne**, Tek-Yöne
Vuruş	**Normal**, Güçlü
IBM AGM	Evet, **Hayır**

Yazdırma Ayarları	Valid Settings
Yazı Tipi (Diğer)	OCR-B,OCR-A,ORATOR,GOTHIC,**SOUVENIR**
Karakter Sıklığı	**10cpi,** 12cpi, 15cpi, 17cpi, 20cpi, PS
Sıfır	**0**,Ø
Yük.Hız-Taslak	**On**, Off
Grafik Hızı	**Normal**, Hızlı, Ultra
IBM Karakter Seti 1/2	Set 1, **Set 2**
Uluslararası Kar. Seti	**USA,** France, Germany, UK, Denmark, Sweden, Italy, Spain, Japan, Norway, Denmark II, Spain II, Latin AM, Korea, Legal

Kod Sayfası	*CP 437*, CP 857…
Karakter Tablosu	*Grafik Tablosu*, İtalik

Sayfa Düzeni Ayarı	Valid Settings
Baskı Genişliği	*13.6"*, 8"
İnç başına satır	1, 2, 3, 4, 5, *6*, 7, 8
Sürekli-kağıt Form Uzunluğu	3",3.5",11/3", 4", 5", 5.5" 6",7",8", 8.5",*11"*, 70/6", 12", 14", 17"
Sürekli-kağıt Üst kenar boşluğu	0/60" … *10/60"*…99/60"
Sürekli-kağıt Alt kenar boşluğu	0/60"…*10/60"*...30/60"
Tek-kağıt Form uzunluğu	3", 3.5", 11/3", 4", 5", 5.5", 6", 7", 8", 8.5", *11"*, 70/6", 12", 14", 17"
Tek-kağıt Üst kenar boşluğu	0/60" … *10/60"*…99/60"
Tek-kağıt Alt kenar boşluğu	0/60"…*10/60"*...30/60"
Rulo kağıt	Evet, *Hayır*
Delik atlama	Evet, *Hayır*
Otom. Koparma	*Elle/Manuel*, 0.5s, 1s, 2s, 3s, 4s, 5s

Arabirim Ayarları	Valid Settings
Arabirim	*Otom.*, Paralel, USB
I-Prime	*Evet*, Hayır
Otom. Arabirim gecikmesi	*10s*, 30s
RAM Kullanımı	*Kullanıcı Yazı Tipi*, Arabellek

Geliştirilmiş Ayarlar	Valid Settings
Otom. Yükleme	*Elle/Manuel*, *0.5s*, 1s, 1.5s, 2s
Kağıt Sıkışmasını Önleme	*Evet*, Hayır
Kağıt Sonunu Algılama	*Evet*, Hayır
Form Uzunl. Kont.	*Yazılım*, Yoksay
Karak.Sıkl. Kont.	*Yazılım*, Yoksay
Yazı Tipi Kont.	*Yazılım*, Yoksay
Kalite Kont.	*Yazılım*, Yoksay
Alarm Zili	*Evet*, Hayır

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Vertical Alignment

The vertical alignment function is used to resolve any vertical line misalignments in bi-directional printing.

```
This example shows how printing looks
  when characters are vertically
misaligned.   Note that the left
  margin is not straight.
```

Adjust Vertical Alignment Procedure:

1. Enter the Service Menu by holding down the 【**Tear/Off**】and 【**LF/FF**】keys while powering up.

2. Load paper.

3. The printer will print as follows:

   Service Menu

   【**LF/FF**】**= OK**　　【**Tear/Off**】**= Back**　　【**Load/Eject**】**= Next**　　【**Online**】**= Exit**

   Current Setting：Vertical Alignment

4. Press 【**LF/FF**】key to select the current setting. The printer will print as follows:

   Vertical Alignment

   【**LF/FF**】**= OK**　　【**Tear/Off**】**= Back**　　【**Load/Eject**】**= Next**　　【**Online**】**= Exit**

   Please select Paper Type：Single Ply

   For single ply paper, press 【**LF/FF**】key to select. For multipart paper, press　【**Load/Eject**】key to go to "Multipart"，then press 【**LF/FF**】key to select.

5. If single ply is selected for paper type, the following will print:

   Single Ply

   Current Print Mode: LQ

   Press 　【**Load/Eject**】key to scroll to other print modes if required.

6. If LQ is selected, the following will print:

   LQ

   【**LF/FF**】**= lower ½ to left**　【**Load/Eject**】**= lower ½ to right**　　【**Online**】**= Exit**

   LQ　-2:

   ‖‖‖

   Pressing　【**LF/FF**】or　【**Load/Eject**】　key will allow you to adjust the alignment of the vertical lines

printed above.

7. Once the setting which gives the best alignment is found, press 【**Online**】 key to exit current level. Printer will print "Save settings? Yes". Press 【**LF/FF**】 key to save setting. Press 【**Online**】 key a few times until the printer exits the Service Menu.

Change Pin Function

When printer has been used for a long time or the print volume is high, the frequently used print head pins may fail. The Change Pin function enables the user to continue using the printer for a while without compromise in print quality until a suitable print head replacement is available. This function will reduce the print speed if activated.

Change Pin Procedure:

1. Enter the Service Menu by holding down the 【**Tear/Off**】 and 【**LF/FF**】 keys while powering up.

2. Load paper.

3. The printer will print as below:
    Service Menu
    【**LF/FF**】**=OK** 【**Tear/Off**】**= Back** 【**Load/Eject**】**= Next** 【**Online**】**= Exit**
    Current Menu：Vertical Alignment

    Press 【**Load/Eject**】 key to scroll to **"Change Pin"**，then press 【**LF/FF**】 key to select. The status of each pin will be printed as follows:

    Change Pin
    1 ---------- Is this pin OK? Yes / No
    2 ---------- Is this pin OK? Yes / No
    3 ---------- Is this pin OK? Yes / No
    :
    24 ---------- Is this pin OK? Yes / No

    Press 【**Load/Eject**】 key to choose whether the pin is **Yes** or **No**，then press 【**LF/FF**】 key to confirm selection.

4. When all the 24 pins are evaluated, press 【**Online**】. The printer will print **"Save settings? Yes"**. Press 【**LF/FF**】 key to confirm selection. Press 【**Online**】 key a few times until the printer exits the Service Menu.

Adjust Physical Margins

Adjust Page Margins allows for adjustments of physical left, top margins and tear-off position. Warning: Once these settings are changed, resetting the printer to factory defaults will not initialize these settings back to the original settings; so it is not advisable to perform this adjustment unless it is absolutely necessary.

Adjust Top Margin Procedure:

1. Enter the Adjust Page Margins function by holding down the【**Load/Eject**】and【**Online**】keys while powering up until the printer beeps twice.

2. Load paper.

3. The printer will print as below:
   Adjust Page Margins:
   【**LF/FF**】**=OK**　【**Tear/Off**】**= Back**　【**Load/Eject**】**= Next**　【**Online**】**= Exit**
   Current Setting: Adjust Fanfold Top Margin

   Press【**LF/FF**】key to confirm selection if the paper used is fanfold type. The printer will print as follows:
   Procedure：

   Install fanfold paper to tractors
   【**LF/FF**】**= Add**　【**Load/Eject**】**= Reduce**　【**Online**】**= Exit**
   Each step is 0.5 mm

   Function of keys:
   【**Tear Off**】key: Decrease 0.5mm
   【**Load/Eject**】key: Increase 0.5mm

4. Press 【**LF/FF**】 key, printer will print **"Save settings？Yes".** Press 【**Load/Eject**】 key to choose Yes or No，then press 【**LF/FF**】 key to confirm selection and exit "Adjust Page Margins" mode by pressing 【**Online**】. The print head moves to the left side and the printer beeps twice, then the print head moves to the middle position.

Adjust Left Margin Procedure:

1. Enter the Adjust Page Margins function by holding down the【**Load/Eject**】and【**Online**】keys while powering up until the printer beeps twice.

2. Load paper.

3. The printer will print as below:
   Adjust Page Margins:
   【**LF/FF**】**=OK**　【**Tear/Off**】**= Back**　【**Load/Eject**】**= Next**　【**Online**】**= Exit**
   Current Setting: Adjust Fanfold Top Margin

4. Press【**Load/Eject**】key until the current setting is "Adjust Fanfold Left Margin". Press【**LF/FF**】key to confirm selection if the paper used is fanfold type. The printer will print as follows:
   Adjust Fanfold Left Margin　　0

   Function of keys:

【**Tear Off**】key: Decrease 0.5mm
【**Load/Eject**】key: Increase 0.5mm

5. Press 【**LF/FF**】 key, printer will print **"Save settings？ Yes".** Press 【**Load/Eject**】 key to choose Yes or No，then press 【**LF/FF**】 key to confirm selection and exit "Adjust Page Margins" mode by pressing 【**Online**】. The print head moves to the left side and the printer beeps twice, then the print head moves to the middle position.

Adjust Tear-Off Position Procedure:

1. Enter the Adjust Page Margins function by holding down the 【**Load/Eject**】 and 【**Online**】 keys while powering up until the printer beeps twice.

2. Load fanfold paper

3. The printer will print as below:
    Adjust Page Margins:
    【**LF/FF**】**=OK   【Tear/Off】= Back   【Load/Eject】= Next   【Online】= Exit**
    Current Setting: Adjust Fanfold Top Margin

4. Press 【**Load/Eject**】 key until the current setting is "Adjust Tear-Off Position". Press 【**LF/FF**】 key to confirm selection. The printer will print as follows:
    Procedure：

    Install fanfold paper to tractors
    【**LF/FF**】 **= Add   【Load/Eject】 = Reduce   【Online】 = Exit**
    Each step is 0.5 mm

    Function of keys:
    【**Tear Off**】key: Decrease 0.5mm
    【**Load/Eject**】key: Increase 0.5mm

5. Press 【**LF/FF**】 key, printer will print **"Save settings？ Yes".** Press 【**Load/Eject**】 key to choose Yes or No，then press 【**LF/FF**】 key to confirm selection and exit "Adjust Page Margins" mode by pressing 【**Online**】. The print head moves to the left side and the printer beeps twice, then the print head moves to the middle position.

6 Maintenance

Your printer requires very little care. Occasional cleaning and replacement of the ribbon cartridge are all that is required. Cleaning is recommended approximately every 6 months or 300 hours of operation, whichever is sooner. Lubrication of the printer is not usually necessary. If the print head carriage does not move smoothly back and forth, clean the printer in the manner described in this chapter. If the problem continues, contact your dealer to determine whether lubrication may be necessary.

⚠️ Switch printer off and unplug the power cord from the mains before doing any maintenance work.

Cleaning

The housing and the top cover of the printer help protect it against dust, dirt, and other contaminants. However, paper produces small particles that accumulate inside the printer. This section explains how to clean and vacuum the printer and how to clean the paper bail rollers. It is easier to clean the printer when the cover is open.

Cleaning and Vacuuming the Printer

If the print head carriage does not move smoothly back and forth or paper particles have accumulated in the printer, clean the printer.

To clean and vacuum the printer:

1. Remove any paper from the printer. *Make sure that the power is off, and then disconnect the printer power cord.*
2. Using a soft vacuum brush, vacuum the exterior of the printer. Also vacuum the cut sheet edge.
3. Use a soft, damp cloth to wipe the exterior of the printer, including the cover. A mild detergent may be used. *Do not use solvents, kerosene, or abrasive cleaning materials that may damage the printer.*
4. Open the cover of the printer and remove the ribbon cartridge. Using a soft vacuum brush, gently vacuum the platen, the print head carriage and shaft, and surrounding areas. You can easily slide the print head to the left or right when the power is off. Be careful not to press too hard on the flat head cable that extends from the print head carriage.
5. Re-install the ribbon cartridge.
6. Remove the single sheet feeder and clean the form tractors and the surrounding areas.
7. Re-install the single sheet feeder.

Cleaning the Paper Rollers

Clean the platen and paper bail rollers occasionally or when stains or smudges appear on the paper. Use a mild detergent as appropriate. *Do not use alcohol to clean the platen or the rollers. Alcohol may cause the rubber to harden.*

To clean the rollers and the platen:

1. Apply a small amount of water to a soft cloth. Avoid spilling liquid inside the printer.
2. Place the cloth against the platen and manually rotate the paper feed knob.
3. Repeat this procedure for each roller.

4. To dry the platen, place a dry cloth against the platen and the rollers and manually rotate the paper feed knob.

7 Troubleshooting

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, contact your dealer or service partner for assistance.

Print Quality Problems and Solutions

Problem	Solution
Printing is too light or too dark.	• Make sure that the ribbon cartridge is properly installed and that the ribbon feeds smoothly. • Replace the ribbon if necessary. • Make sure that the print gap lever is set for the thickness of your paper.
Smears and stains appear on the page.	• Make sure that the print gap lever is set for the thickness of your paper. • Check for ribbon wear. Replace the ribbon if necessary. • Check whether the tip of the print head is dirty. Clean the head with a soft cloth if necessary. • The print head may need to be replaced.
Printing is erratic or the wrong characters are printed. Many "?" or unexpected characters are printed.	• Make sure that the interface cable is securely connected to both the printer and computer. • Make sure that the printer driver selected in your software is the same as the emulation selected on the printer. • Check the length of the interface cable. (Maximum Parallel & USB: 2 metres) • Try another interface cable.
The page is blank.	• Make sure that the ribbon cartridge is properly installed. • Make sure the gap lever is set correctly.
Printing is vertically misaligned (jagged).	Use the printer's vertical alignment function to check the vertical print alignment. If necessary, adjust the print alignment.
The top margin is wrong.	• Check the application top margin setting. • Adjust the Top Margin setting in Page Setup menu if necessary.
Lines are double spaced instead of single spaced.	Change the Auto LF setting in the System Setup menu to No.
The printer overprints on the same line.	Change the Auto CR setting in the System Setup menu to No.
The next print line starts where the previous line ended instead of at the left margin.	Change the Auto CR setting in the System Setup menu to Yes.

Paper Handling Problems and Solutions

Problem	Solution
Paper cannot be loaded or fed.	• Make sure that the paper select lever located on the top right of the printer is set correctly. Move the lever to the front for single sheets or to the rear for continuous forms. • Make sure that the paper covers the paper-out sensor.
Paper jams while loading.	• Turn off the printer and remove the jammed paper. Remove any obstructions from the paper path. • Make sure that the Print Gap lever is set for the thickness of your paper. • Make sure that the paper is not folded, creased, or torn. • Make sure that the left and right tractors are set so that the continuous forms are stretched taut.
Paper jams while printing.	• Turn off the printer and remove the jammed paper. Remove any obstructions from the paper path. • Make sure that the Print Gap lever is set for the thickness of your paper. • For continuous forms, make sure that the incoming and outgoing paper stacks are correctly placed. Paper should feed straight.
Paper slips off the forms tractors or the perforated holes of the paper tear during printing.	Make sure that the forms tractors are positioned correctly for the width of your paper and that the perforated holes of the paper fit directly over the tractor pins.

Operating Problems and Solutions

Problem	Solution
The power does not turn on.	• Check whether the mains voltage is correct. • Make sure that the power cord is securely connected to both the printer and the mains power outlet. • Make sure that the power outlet is functional. If not so, use other outlet. • Turn the power off. Wait a minute and then turn the printer on again. If the printer still has no power, contact your dealer.
The printer is on but it will not print.	• Make sure that the Online indicator is lit. • If you use the interface cable, make sure it is securely connected to both the printer and the computer. • Make sure paper is loaded. • Run the printer Status Page. If printing executes normally, the problem is caused by: the interface, the computer, incorrect printer settings, or incorrect software settings. • Make sure that the printer driver selected in your software is the same as the emulation selected on the printer.

Paper select lever error	If paper is loaded and the paper select lever is moved to the incorrect position, the printer turns offline, and the buzzer sounds continuously. Switch the paper select lever back to its correct position.

Printer Failures

A user cannot generally resolve a problem involving defective printer hardware. Power off and on again the printer to recover any fatal error. If the problem cannot be resolved, contact your dealer or service partner.

Error Indications on LEDs

Error Description	Operation Status	Paper Out	Online	L1	L2	L3	L4	L5	L6	L7	L8	Buzzer Sound
No paper	Normal	Flash	Off	No change	No change	No change	No change	No change	No change	No change	No change	Once
Paper jammed	Suspend	Flash	Off	Flash	No change	No change	No change	No change	No change	No change	No change	Once
Friction feed /Tractor feed	Suspend	Flash	Off	Flash	Flash	No change	No change	No change	No change	No change	No change	Continuously
Print head hot	Normal	On	Flash	No change	No change	No change	No change	No change	No change	No change	No change	--
Carriage initial position	Stop	Flash	Off	No change	No change	No change	No change	Flash	Flash	No change	No change	Once

Diagnostic Functions

The printer diagnostic functions are Self-Test page, hex-dump mode and print alignment adjustment.

- Self-Test page: Tells you whether the printer hardware is functioning correctly. If the printer hardware is functional, any problems you are having are probably caused by incorrect printer settings, incorrect software settings, the interface, or the computer.

- HEX-DUMP MODE: Allows you to determine whether the computer is sending the correct commands to the printer, and whether the printer is executing the commands correctly. This function is useful to programmers or others who understand how to interpret hex dumps.

- PRINTING ALIGNMENT ADJUSTMENT: Allows you to check and, if necessary, correct the printer's vertical line print alignment in bi-directional mode.

For details on using these functions, please refer to chapters 4 and 5.

Firmware Update

Sometimes it is necessary update the firmware to solve a problem. The latest firmware file may be obtained from your dealer or downloaded from our website www.dascom.com. Before upgrading firmware, it is strongly recommended to print the Main Menu page to keep a record of the old settings.

Note: Firmware update should only be performed by an authorized service person. We disclaim any responsibility for any damage caused if it is performed by any other person.

To load new firmware, proceed as follows:

1. Switch off the printer. Connect your PC to the **parallel port** on the printer.

2. Press and hold down 4 keys (S2, S3, S4, S5) while powering on the printer.

3. Alternate flashing of L9 and L10 LEDs indicates printer is ready for firmware update.

4. Go to the DOS prompt window. Copy the firmware file (with extension .MOT) to your printer as follows:

   COPY /B <filename>.mot PRN

5. When new firmware is being received, L1 and L2 will flash, followed by L1 and L3 flashing, then followed by L1 and L4 flashing.

   Note: Do not interrupt the downloading process to prevent possible flash memory corruption.

6. When downloading is completed, the carriage returns to home position. Printer initializes normally.

8 General Specifications

Print System	Mono-chrome serial impact dot matrix
Print Technology	Uni-/bi-directional logic seeking for text and graphics
Print Speed	Pitch HS Draft Draft LQ (CPS/DPI) 10 CPI 375/80H 250/120H 83/360H 12 CPI 300/120H 300/120H 100/360H 15 CPI 375/120H 375/120H 125/360H 17.1 CPI 426/120H 426/120H 142/360H 20 CPI 498/120H 498/120H 166/360H
Font Matrix	Pitch HS Draft Draft LQ (Matrix/DPI) 10 CPI 8x24/80H 12x24/120H 36x24/360H 12 CPI 10x24/120H 10x24/120H 30x24/360H 15 CPI 8x16/120H 8x16/120H 24x16/360H 17.1 CPI 7x24/120H 7x24/120H 21x24/360H 20 CPI 6x24/120H 6x24/120H 18x24/360H Proportional Nx24/36H Nx24/360H Nx24/360H
Print Head	Number of pins: 24 pins Firing frequency: Normal mode: 1500 Hz Pin diameter: 0.2 mm Life: 400 million strokes/pin @ Draft mode
Graphics	8-bit mode: 8V x 60H, 80H, 90H, 120H, 240H (DPI) 24-bit mode: 24V x 60H, 90H, 120H, 180H, 360H (DPI)
Paper Feed Speed	Continuous feed: 5.0 IPS (inches per second)
Resolution	360 x 360 DPI maximum
Printable Columns	Characters per line (CPL) 10 CPI: 136 CPL 12 CPI: 163 CPL 15 CPI: 204 CPL 17.1 CPI: 232 CPL 20 CPI: 272 CPL

Built-In Fonts	Bitmap Fonts: 1. Draft 10, 12, 15, 17, 20 CPI 2. Roman 10, 12, 15, 17, 20 CPI, Proportional 3. Sans Serif 10, 12, 15, 17, 20 CPI, Proportional 4. Courier 10, 12, 15, 17, 20 CPI, Proportional 5. Prestige 10, 12, 15, 17, 20 CPI 6. OCR-B 10, 12, 17, 20 CPI 7. OCR-A 10, 12, 17, 20 CPI 8. Orator 10, 12, 15, 17, 20 CPI, Proportional 9. SOUVENIR 10, 12, 15, 17, 20 CPI, Proportional 10. GOTHIC 10, 12, 15, 17, 20 CPI, Proportional 11. Script 10, 12, 15, 17, 20 CPI
Barcodes	1. EAN-13 2. EAN-8 3. Interleaved 2 of 5 4. UPC-A 5. UPC-E 6. Code 39 7. Code 128 8. POSTNET 9. Codabar 10. Industrial 2 of 5
Code Pages	1. CP 437 2. CP 737 3. CP 850 4. CP 851 5. CP 852 6. CP 857 7. CP 858 8. CP 860 9. CP 861 10. CP 863 11. CP 864 12. CP 864 Extended 13. CP 865 14. CP 866 Cyrillic 15. CP 866 Bulgaria 16. CP 1250 17. CP 1251 18. CP 1252 19. CP 1253 20. CP 1254

Code Pages	21. 8859-1 22. 8859-1 (SAP) 23. 8859-2 24. 8859-5 25. 8859-7 26. 8859-9 27. 8859-15 28. BRASCII 29. Abicomp 30. Roman8 31. Coax/Twinax 32. New-437 33. New-Dig 850 34. Old-Code 860 35. Flarro 863 36. 865 Hebrew 37. CP 1257 38. 866 Ukraine 39. 866 Kazakhstan 40. Kamenicky 41. Mazovia 42. CP 775 43. CRO-ASCII 44. Arabic Farsi 45. Arabic Urdo 46. Greek DEC 47. Greek ELOT 928
International Character Sets	1. USA 2. France 3. Germany 4. UK 5. Denmark I 6. Sweden 7. Italy 8. Spain I 9. Japan 10. Norway 11. Denmark II 12. Spain II 13. Latin America 14. Korea 15. Legal

Line Spacing	1/6", 1/8", n/60", n/180", n/360"		
Paper Specifications **Paper Specifications**	Cut Sheet	Fanfold Paper	
		Single ply	Multi-part
	Width: 76.2mm～419.1mm （3"～16.5"） Length: 101.6mm～363.2mm （4"～14.3"）	Width: 76.2mm～419.1mm (3"～16.5") Length: 101.6mm min (4" min)	
	Weight: 52～90g/㎡ Thickness: 0.065～0.14mm (0.0026"～0.0055")	Weight: 52～82 g/㎡ Thickness: 0.065～0.14mm (0.0026"～0.0055")	Weight: 40～52g/㎡ Thickness: 0.45 mm max (0.0177" max)
Paper Handling	Feeding method: Friction and Tractor Paper path:　　Cut sheets: Top load and top out 　　　　　　　　Fanfold:　Rear in and top out		
Copy Capability	Original + 4 copies		
Emulation	ESC/P2, IBM 2390 Plus		
Ribbon Type	Cartridge; Monochrome		
Ribbon Life	7 million characters (rolling Draft 10 CPI)		
Input Data Buffer	Up to 48KB		
Windows Drivers	Windows Server 2000/2003/2008 Windows Vista Windows XP Windows 98 Windows 7		
Interface	Parallel (Bi-directional IEEE-1284 nibble mode) USB 2.0 (B type connector)		
Operation Panel	Switches: 5 pcs LED indicators: 10 pcs		
Noise Level	< 55 dBA in 10CPI draft ASCII (Conforming to ISO7779)		

Ambient Conditions	Temperature Operating: +5 to +40 °C.
	           Stand-by: -20 to +55 °C
	Humidity Operating: 10 to 90%RH
	                    (No condensation)
	           Stand-by: 10 to 90%RH
	                    (No condensation)

Dimensions	587 mm (W) x 333 mm (D) x 173 mm (H)
Weight	8.5 kg
Power Supply	Unit type: Switching mode power supply Power cord: Detachable Voltage rating: AC 230V (180V~264V)/50Hz to 60Hz Stand by: Less than 7.6W ESD: Comply with IEC801-2 Contact discharge:4kV Air discharge: 8kV
MTTR	< 20 minutes
MTBF	10000 hours @ 25% duty cycle

9 Interfaces

Parallel Interface

Parallel Interface Pin Assignment

Pin	Signal Name	Signal Transmission
1	$\overline{STROBE}$	Printer ← Computer
2~9	DATA	Printer ← Computer
10	$\overline{ACK}$	Printer → Computer
11	BUSY	Printer → Computer
12	PE	Printer → Computer
13	SELECT	Printer → Computer
14	$\overline{AFXT}$	Printer ← Computer
15	Unused	Unused
16	GND	Printer ↔ Computer
17	F-GND	Printer ↔ Computer
18	+5V	Printer → Computer
19~30	GND	Printer ↔ Computer
31	$\overline{INIT}$	Printer ← Computer
32	$\overline{FAULT}$	Printer → Computer
33	GND	Printer ↔ Computer
34	Unused	Unused
35	FUSE	Printer → Computer
36	$\overline{SLCTIN}$	Printer ← Computer

Parallel Interface Connector Diagram
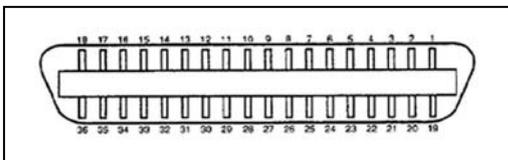
Note: Any external devices connected to the parallel port should not draw current exceeding 200 mA from pin 18; otherwise it may affect the printer operation.

USB Interface

The USB interface conforms to the Universal Serial Bus 2.0 Specifications. It supports the Full Speed mode at 12 Mbps. It uses the "B" type USB connector.

10 Character sets & Code Pages

Character Sets

Standard Character Set 1

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL		SP	0	@	P	`	p	NUL			0	@	P	`	p
1		DC1	!	1	A	Q	a	q		DC1	!	1	A	Q	a	q
2		DC2	"	2	B	R	b	r		DC2	"	2	B	R	b	r
3		DC3	#	3	C	S	c	s		DC3	#	3	C	S	c	s
4		DC4	$	4	D	T	d	t		DC4	$	4	D	T	d	t
5			%	5	E	U	e	u			%	5	E	U	e	u
6			&	6	F	V	f	v			&	6	F	V	f	v
7	BEL		'	7	G	W	g	w	BEL		'	7	G	W	g	w
8	BS	CAN	(	8	H	X	h	x	BS	CAN	(	8	H	X	h	x
9	HT		)	9	I	Y	i	y	HT		)	9	I	Y	i	y
A	LF		*	:	J	Z	j	z	LF		*	:	J	Z	j	z
B	VT	ESC	+	;	K	[	k	{	VT	ESC	+	;	K	[	k	{
C	FF	FS	,	<	L	\	l	|	FF	FS	,	<	L	\	l	/
D	CR		-	=	M	]	m	}	CR		-	=	M	]	m	}
E	SO		.	>	N	^	n	~	SO		.	>	N	^	n	~
F	SI		/	?	O	_	o	|	SI		/	?	O	_	o	DEL

Standard Character Set 2

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL		SP	0	@	P	`	p	à	§		0	@	P	`	p
1		DC1	!	1	A	Q	a	q	è	ß	!	1	A	Q	a	q
2		DC2	"	2	B	R	b	r	ù	Æ	"	2	B	R	b	r
3		DC3	#	3	C	S	c	s	ò	æ	#	3	C	S	c	s
4		DC4	$	4	D	T	d	t	ì	Ø	$	4	D	T	d	t
5			%	5	E	U	e	u	°	ø	%	5	E	U	e	u
6			&	6	F	V	f	v	£	¨	&	6	F	V	f	v
7	BEL		'	7	G	W	g	w	¡	Ä	'	7	G	W	g	w
8	BS	CAN	(	8	H	X	h	x	¿	Ö	(	8	H	X	h	x
9	HT		)	9	I	Y	i	y	Ñ	Ü	)	9	I	Y	i	y
A	LF		*	:	J	Z	j	z	ñ	å	*	:	J	Z	j	z
B	VT	ESC	+	;	K	[	k	{	¤	ö	+	;	K	[	k	{
C	FF	FS	,	<	L	\	l	|	R	ü	,	<	L	\	l	/
D	CR		-	=	M	]	m	}	Á	ß	-	=	M	]	m	}
E	SO		.	>	N	^	n	~	à	é	.	>	N	^	n	~
F	SI		/	?	O	_	o	|	ç	¥	/	?	O	_	o	DEL

Tally Dascom 1225

IBM Character Set 1

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL		SP	0	@	P	`	p	NUL		á	⁞	└	┴	α	=
1		DC1	!	1	A	Q	a	q		DC1	í	▓	┴	╤	β	±
2		DC2	"	2	B	R	b	r		DC2	ó	▓	┬	╥	Γ	≥
3		DC3	#	3	C	S	c	s		DC3	ú	│	├	╙	π	≤
4		DC4	$	4	D	T	d	t		DC4	ñ	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u			Ñ	╡	┼	╒	σ	⌡
6			&	6	F	V	f	v			ª	╢	╞	╓	µ	÷
7	BEL		'	7	G	W	g	w	BEL		º	╖	╟	╫	τ	≈
8	BS	CAN	(	8	H	X	h	x	BS	CAN	¿	╕	╚	╪	Φ	°
9	HT		)	9	I	Y	i	y	HT		⌐	╣	╔	┘	Θ	∙
A	LF		*	:	J	Z	j	z	LF		¬	║	╩	┌	Ω	·
B	VT	ESC	+	;	K	[	k	{	VT	ESC	½	╗	╦	█	δ	√
C	FF	FS	,	<	L	\	l	|	FF	FS	¼	╝	╠	▄	∞	ⁿ
D	CR		-	=	M	]	m	}	CR		¡	┘	═	▌	Ø	²
E	SO		.	>	N	^	n	~	SO		«	┘	╬	▐	ε	■
F	SI		/	?	O	_	o	▮	SI		»	┐	┴	▄	∩	SP

IBM Character Set 2

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL		SP	0	@	P	`	p	Ç	É	á	⁞	└	┴	α	≡
1		DC1	!	1	A	Q	a	q	ü	æ	í	▓	┴	╤	β	±
2		DC2	"	2	B	R	b	r	é	Æ	ó	▓	┬	╥	Γ	≥
3	♥	DC3	#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4	♦	DC4	$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
5	♣	§	%	5	E	U	e	u	à	ò	Ñ	╡	┼	╒	σ	⌡
6	♠		&	6	F	V	f	v	å	û	ª	╢	╞	╓	µ	÷
7	BEL		'	7	G	W	g	w	ç	ù	º	╖	╟	╫	τ	≈
8	BS	CAN	(	8	H	X	h	x	ê	ÿ	¿	╕	╚	╪	Φ	°
9	HT		)	9	I	Y	i	y	ë	Ö	⌐	╣	╔	┘	Θ	∙
A	LF		*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Ω	·
B	VT	ESC	+	;	K	[	k	{	ï	¢	½	╗	╦	█	δ	√
C	FF	FS	,	<	L	\	l	¦	î	£	¼	╝	╠	▄	∞	ⁿ
D	CR		-	=	M	]	m	}	ì	¥	¡	┘	═	▌	Ø	²
E	SO		.	>	N	^	n	~	Ä	Pt	«	┘	╬	▐	ε	■
F	SI		/	?	O	_	o	▮	Å	ƒ	»	┐	┴	▄	∩	SP

International character sets

n	Set name	Dec	35	36	64	91	92	93	94	96	123	124	125	126
		Hex	23	24	40	5B	5C	5D	5E	60	7B	7C	7D	7E
0	USA		#	$	@	[	\	]	^	`	{			}	~
1	France		#	$	à	°	ç	§	^	`	é	ù	è	¨
2	Germany		#	$	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß
3	UK		£	$	@	[	\	]	^	`	{			}	~
4	Denmark I		#	$	@	Æ	Ø	Å	^	`	æ	ø	å	~
5	Sweden		#	¤	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
6	Italy		#	$	@	°	\	é	^	ù	à	ò	è	ì
7	Spain I		Pt	$	@	¡	Ñ	¿	^	`	¨	ñ	}	~
8	Japan (Eng)		#	$	@	[	¥	]	^	`	{			}	~
9	Norway		#	¤	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
10	Denmark II		#	$	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
11	Spain II		#	$	á	¡	Ñ	¿	é	`	í	ñ	ó	ú
12	Lat America		#	$	á	¡	Ñ	¿	é	ü	í	ñ	ó	ú
13	Korea		#	$	@	[	₩	]	^	`	{			}	~
64	Legal		#	$	§	°	'	"	¶	`	©	®	†	™

International Character Set Commands

Country	Command
USA	＜ESC＞"R"CHR＄（0）
France	＜ESC＞"R"CHR＄（1）
Germany	＜ESC＞"R"CHR＄（2）
UK	＜ESC＞"R"CHR＄（3）
Denmark1	＜ESC＞"R"CHR＄（4）
Sweden	＜ESC＞"R"CHR＄（5）
Italy	＜ESC＞"R"CHR＄（6）
Spain1	＜ESC＞"R"CHR＄（7）
Japan	＜ESC＞"R"CHR＄（8）
Norway	＜ESC＞"R"CHR＄（9）
Denmark2	＜ESC＞"R"CHR＄（10）
Spain2	＜ESC＞"R"CHR＄（11）
Lat America	＜ESC＞"R"CHR＄（12）
Korea	＜ESC＞"R"CHR＄（13）
Legal	＜ESC＞"R"CHR＄（64）

Character Tables

Italic

	0	10	20	30	40	50	60	70	80	90	A0	B0	C0	D0	E0	F0
0	(0)	(16)	(32)	0 (48)	@ (64)	P (80)	` (96)	p (112)	(128)	(144)	(160)	0 (176)	@ (192)	P (208)	` (224)	p (240)
1	(1)	(17)	! (33)	1 (49)	A (65)	Q (81)	a (97)	q (113)	(129)	(145)	! (161)	1 (177)	A (193)	Q (209)	a (225)	q (241)
2	(2)	(18)	" (34)	2 (50)	B (66)	R (82)	b (98)	r (114)	(130)	(146)	" (162)	2 (178)	B (194)	R (210)	b (226)	r (242)
3	(3)	(19)	# (35)	3 (51)	C (67)	S (83)	c (99)	s (115)	(131)	(147)	# (163)	3 (179)	C (195)	S (211)	c (227)	s (243)
4	(4)	(20)	$ (36)	4 (52)	D (68)	T (84)	d (100)	t (116)	(132)	(148)	$ (164)	4 (180)	D (196)	T (212)	d (228)	t (244)
5	(5)	(21)	% (37)	5 (53)	E (69)	U (85)	e (101)	u (117)	(133)	(149)	% (165)	5 (181)	E (197)	U (213)	e (229)	u (245)
6	(6)	(22)	& (38)	6 (54)	F (70)	V (86)	f (102)	v (118)	(134)	(150)	& (166)	6 (182)	F (198)	V (214)	f (230)	v (246)
7	(7)	(23)	' (39)	7 (55)	G (71)	W (87)	g (103)	w (119)	(135)	(151)	' (167)	7 (183)	G (199)	W (215)	g (231)	w (247)
8	(8)	(24)	((40)	8 (56)	H (72)	X (88)	h (104)	x (120)	(136)	(152)	((168)	8 (184)	H (200)	X (216)	h (232)	x (248)
9	(9)	(25)	) (41)	9 (57)	I (73)	Y (89)	i (105)	y (121)	(137)	(153)	) (169)	9 (185)	I (201)	Y (217)	i (233)	y (249)
A	(10)	(26)	* (42)	: (58)	J (74)	Z (90)	j (106)	z (122)	(138)	(154)	* (170)	: (186)	J (202)	Z (218)	j (234)	z (250)
B	(11)	(27)	+ (43)	; (59)	K (75)	[(91)	k (107)	{ (123)	(139)	(155)	+ (171)	; (187)	K (203)	[(219)	k (235)	{ (251)
C	(12)	(28)	, (44)	< (60)	L (76)	\ (92)	l (108)	| (124)	(140)	(156)	, (172)	< (188)	L (204)	\ (220)	l (236)	| (252)
D	(13)	(29)	- (45)	= (61)	M (77)	] (93)	m (109)	} (125)	(141)	(157)	- (173)	= (189)	M (205)	] (221)	m (237)	} (253)
E	(14)	(30)	. (46)	> (62)	N (78)	^ (94)	n (110)	~ (126)	(142)	(158)	. (174)	> (190)	N (206)	^ (222)	n (238)	~ (254)
F	(15)	(31)	/ (47)	? (63)	O (79)	_ (95)	o (111)	(127)	(143)	(159)	/ (175)	? (191)	O (207)	_ (223)	o (239)	(255)

Graphic 1

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL			0	@	P	`	p	Ç	É	á	‖	└	⊥⊥	α	≡
1		DC1	!	1	A	Q	a	q	ü	æ	í	▒	⊥	╤	β	±
2		DC2	"	2	B	R	b	r	é	Æ	ó	▓	┬	π	Γ	≥
3		DC3	#	3	C	S	c	s	å	ô	ú	│	├	⊔	π	≤
4		DC4	$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u	à	ò	Ñ	╡	+	╒	σ	⌡
6			&	6	F	V	f	v	å	û	ª	╢	╞	π	μ	÷
7	BEL		'	7	G	W	g	w	ç	ù	º	╖	╟	╫	τ	≈
8	BS	CAN	(	8	H	X	h	x	ê	ÿ	¿	╕	╙	╪	Φ	°
9	HT	EM	)	9	I	Y	i	y	ë	Ö	⌐	╣	╓	┘	θ	∙
A	LF		*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Ω	·
B	VT	ESC	+	;	K	[	k	{	ï	¢	½	╗	╥	█	δ	√
C	FF	FS	,	<	L	\	l	|	î	£	¼	╝	╟	■	∞	ⁿ
D	CR		-	=	M	]	m	}	ì	¥	¡	╜	=	▐	φ	²
E	SO		.	>	N	^	n	~	Ä	₧	«	╛	╫	▌	ε	∎
F	SI		/	?	O	_	o	DEL	Å	ƒ	»	┐	⊥	■	∩	

Graphic 2

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL			0	@	P	`	p	NUL		á	‖	└	⊥⊥	α	≡
1		DC1	!	1	A	Q	a	q		DC1	í	▒	⊥	╤	β	±
2		DC2	"	2	B	R	b	r		DC2	ó	▓	┬	π	Γ	≥
3		DC3	#	3	C	S	c	s		DC3	ú	│	├	⊔	π	≤
4		DC4	$	4	D	T	d	t		DC4	ñ	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u			Ñ	╡	+	╒	σ	⌡
6			&	6	F	V	f	v			ª	╢	╞	π	μ	÷
7	BEL		'	7	G	W	g	w	BEL		º	╖	╟	╫	τ	≈
8	BS	CAN	(	8	H	X	h	x	BS	CAN	¿	╕	╙	╪	Φ	°
9	HT	EM	)	9	I	Y	i	y	HT	EM	⌐	╣	╓	┘	θ	∙
A	LF		*	:	J	Z	j	z	LF		¬	║	╩	┌	Ω	·
B	VT	ESC	+	;	K	[	k	{	VT	ESC	½	╗	╥	█	δ	√
C	FF	FS	,	<	L	\	l	|	FF	FS	¼	╝	╟	■	∞	ⁿ
D	CR		-	=	M	]	m	}	CR		¡	╜	=	▐	φ	²
E	SO		.	>	N	^	n	~	SO		«	╛	╫	▌	ε	∎
F	SI		/	?	O	_	o	DEL	SI		»	┐	⊥	■	∩	

Code Page Commands

Code Page	ESC R Parameter
CRO-ASCII	3C
Arabic Farsi	96
Arabic Urdo	97
Greek DEC	46
Greek ELOT 928	6C
CP437 Latin US	80
CP737 Greek	93
CP850 Latin 1	82
CP851 Greek	88
CP852 Latin 2	87
CP857 Turkish	8D
CP858 (IBM with €)	9E
CP860 Portugal	84
CP861 Icelandic	94
CP863 French Canada	85
CP864 Arabic	8C
CP864 Arab. Extended	95
CP865 Nordic	86
CP866 Cyrillic	8E
CP866 Bulgaria	9D
Siemens Turkish	9B
DEC Turkish	9C
CP1250 Win Latin 2	70
CP1251 Win Cyrillic	71
CP1252 Win Latin 1	72
CP1253 Win Greek	73
CP1254 Win Turkish	74
8859-1 Latin 1	25
8859-1 Latin 1 (SAP)	2B
8859-2 Latin 2	26
8859-5 Cyrillic	2A
8859-7 Greek	2D
8859-9 Turkish	2E
8859-15 Latin 9 (Euro)	2F
BRASCII	6D
Abicomp	6E
Roman 8	4D

Coax/Twinax(Hebrew)	4F
New-437 (Hebrew)	81
New-DIG 850 (Hebr.)	83
Old-Code 860 (Hebr.)	98
Flarro 863 (Hebrew)	99
Table 865 (Hebrew)	9A
CP775 Baltic	A6
CP1257 Baltic	77
Mazovia (Poland)	92
Kamenicky (Czech)	91
CP866 Ukraine	8F
CP866 Kazakhstan	90

Code Page Tables

CP 437 (US)

hex dez	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	a 160	b 176	c 192	d 208	e 224	f 240
0				0	@	P	`	p	Ç	É	á	░	└	╨	α	≡
1			!	1	A	Q	a	q	ü	æ	í	▒	┴	╤	β	±
2			"	2	B	R	b	r	é	Æ	ó	▓	┬	╥	Γ	≥
3			#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4			$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u	à	ò	Ñ	╡	┼	╒	σ	⌡
6			&	6	F	V	f	v	å	û	ª	╢	╞	╓	µ	÷
7			'	7	G	W	g	w	ç	ù	º	╖	╟	╫	τ	≈
8			(	8	H	X	h	x	ê	ÿ	¿	╕	╚	╪	Φ	°
9			)	9	I	Y	i	y	ë	Ö	⌐	╣	╔	┘	θ	·
a			*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Ω	·
b			+	;	K	[	k	{	ï	¢	½	╗	╦	■	δ	√
c			,	<	L	\	l	|	î	£	¼	╝	╠	■	∞	ⁿ
d			–	=	M	]	m	}	ì	¥	¡	╜	=	■	ø	²
e			.	>	N	^	n	~	Ä	₧	«	╛	╬	■	∈	■
f			/	?	O	_	o		Å	ƒ	»	┐	╧	■	∩	

CP 737 Greek

hex dez	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	a 160	b 176	c 192	d 208	e 224	f 240
0				0	@	P	`	p	A	P	ι	░	└	╨	ω	Ώ
1			!	1	A	Q	a	q	B	Σ	κ	▒	┴	╤	ά	±
2			"	2	B	R	b	r	Γ	T	λ	▓	┬	╥	έ	≥
3			#	3	C	S	c	s	Δ	Y	µ	│	├	╙	ή	≤
4			$	4	D	T	d	t	E	Φ	ν	┤	─	╘	ϊ	⌠
5			%	5	E	U	e	u	Z	X	ξ	╡	┼	╒	ί	⌡
6			&	6	F	V	f	v	H	Ψ	o	╢	╞	╓	ό	÷
7			'	7	G	W	g	w	Θ	Ω	π	╖	╟	╫	ύ	≈
8			(	8	H	X	h	x	I	α	ρ	╕	╚	╪	ϋ	°
9			)	9	I	Y	i	y	K	β	σ	╣	╔	┘	ώ	£
a			*	:	J	Z	j	z	Λ	γ	ς	║	╩	┌	Ά	·
b			+	;	K	[	k	{	M	δ	τ	╗	╦	■	Έ	√
c			,	<	L	\	l	|	N	ε	υ	╝	╠	■	Ή	ⁿ
d			–	=	M	]	m	}	Ξ	ζ	φ	╜	=	■	Ι	²
e			.	>	N	^	n	~	O	η	χ	╛	╬	■	Ό	■
f			/	?	O	_	o		Π	θ	ψ	┐	╧	■	Υ	

Tally Dascom 1225

CP 850 (Multilingual)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É	á	░	└	ð	Ó	-
1			!	1	A	Q	a	q	ü	æ	í	▒	┴	Ð	ß	±
2			"	2	B	R	b	r	é	Æ	ó	▓	┬	Ê	Ô	‗
3			#	3	C	S	c	s	â	ô	ú	│	├	Ë	Ò	¾
4			$	4	D	T	d	t	ä	ö	ñ	┤	─	È	õ	¶
5			%	5	E	U	e	u	à	ò	Ñ	Á	┼	ı	Õ	§
6			&	6	F	V	f	v	å	û	ª	Â	ã	Í	µ	÷
7			'	7	G	W	g	w	ç	ù	º	À	Ã	Î	þ	¸
8			(	8	H	X	h	x	ê	ÿ	¿	©	╚	Ï	Þ	°
9			)	9	I	Y	i	y	ë	Ö	®	╣	╔	┘	Ú	¨
a			*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Û	·
b			+	;	K	[	k	{	ï	ø	½	╗	╦	█	Ù	¹
c			,	<	L	\	l	|	î	£	¼	╝	╠	▄	ý	³
d			-	=	M	]	m	}	ì	Ø	¡	¢	═	¦	Ý	²
e			.	>	N	^	n	~	Ä	×	«	¥	╬	Ì	¯	■
f			/	?	O	_	o		Å	ƒ	»	┐	¤	▀	´	

CP 851

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	Ι	ϊ	░	└	Τ	ζ	-
1			!	1	A	Q	a	q	ü	æ	Ϊ	▒	┴	Υ	η	±
2			"	2	B	R	b	r	é	Ô	ύ	▓	┬	Φ	θ	υ
3			#	3	C	S	c	s	â	ô	Ü	│	├	Χ	ι	φ
4			$	4	D	T	d	t	ä	ö	Α	┤	─	Ψ	κ	χ
5			%	5	E	U	e	u	à	Υ	Β	Κ	┼	Ω	λ	§
6			&	6	F	V	f	v	Ä	û	Γ	Λ	Π	α	µ	ψ
7			'	7	G	W	g	w	ç	ù	Δ	M	Ρ	β	ν	¸
8			(	8	H	X	h	x	ê	Ώ	E	N	╚	γ	ξ	°
9			)	9	I	Y	i	y	ë	ΰ	Z	╣	╔	┘	ο	¨
a			*	:	J	Z	j	z	è	Ϋ	H	║	╩	┌	π	ω
b			+	;	K	[	k	{	ϊ	ά	½	╗	╦	█	ρ	ϋ
c			,	<	L	\	l	|	î	£	θ	╝	╠	▄	σ	Ü
d			-	=	M	]	m	}	Ε	έ	Ι	Ξ	═	δ	ς	ώ
e			.	>	N	^	n	~	Ά	ή	«	Ο	╬	ε	τ	■
f			/	?	O	_	o		Η	ί	»	┐	Σ	■		

CP 852 (Eastern Europe)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É	á	░	└	đ	Ó	-
1			!	1	A	Q	a	q	ü	Ĺ	í	▒	┴	Đ	ß	˝
2			"	2	B	R	b	r	é	ĺ	ó	▓	┬	Ď	Ô	˛
3			#	3	C	S	c	s	â	ô	ú	│	├	Ë	Ń	˘
4			$	4	D	T	d	t	ä	ö	Ą	┤	─	ď	ń	¨
5			%	5	E	U	e	u	ů	Ľ	ą	Á	┼	Ň	ň	§
6			&	6	F	V	f	v	ć	ľ	Ž	Â	Ă	Í	Š	÷
7			'	7	G	W	g	w	ç	Ś	ž	Ě	ă	Î	š	¸
8			(	8	H	X	h	x	ł	ś	Ę	Ş	╚	ě	Ŕ	°
9			)	9	I	Y	i	y	ë	Ö	ę	╣	╔	┘	Ú	¨
a			*	:	J	Z	j	z	Ő	Ü	¬	║	╩	┌	ŕ	·
b			+	;	K	[	k	{	ő	Ť	ź	╗	╦	█	Ű	ű
c			,	<	L	\	l	|	î	ť	Č	╝	╠	▄	ý	Ř
d			-	=	M	]	m	}	Ź	Ł	ş	═	╦	Ţ	Ý	ř
e			.	>	N	^	n	~	Ä	×	«	ż	╬	Ů	ţ	■
f			/	?	O	_	o		Ć	č	»	┐	¤	▀		'

CP 857 (Turkish)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É	á	░	└	º	Ó	-
1			!	1	A	Q	a	q	ü	æ	í	▒	┴	ª	ß	±
2			"	2	B	R	b	r	é	Æ	ó	▓	┬	Ê	Ô	
3			#	3	C	S	c	s	â	ô	ú	│	├	Ë	Ò	¾
4			$	4	D	T	d	t	ä	ö	ñ	┤	─	È	õ	¶
5			%	5	E	U	e	u	à	ò	Ñ	Á	┼		Õ	§
6			&	6	F	V	f	v	å	û	Ğ	Â	ã	Í	µ	÷
7			'	7	G	W	g	w	ç	ù	ğ	À	Ă	Î		¸
8			(	8	H	X	h	x	ê	İ	¿	©	╚	Ï	×	°
9			)	9	I	Y	i	y	ë	Ö	®	╣	╔	┘	Ú	¨
a			*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Û	·
b			+	;	K	[	k	{	ï	ø	½	╗	╦	█	Ù	¹
c			,	<	L	\	l	|	î	£	¼	╝	╠	▄	ì	³
d			-	=	M	]	m	}	ı	Ø	¡	¢	═	¦	ÿ	²
e			.	>	N	^	n	~	Ä	Ş	«	¥	╬	Ì	¯	■
f			/	?	O	_	o		Å	ş	»	┐	¤	▀		'

CP 858

| hex | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | a | b | c | d | e | f |
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p			á	▒	└	ð	Ó	-
1			!	1	A	Q	a	q			í	▓	┴	Ð	ß	±
2			"	2	B	R	b	r			ó	▓	┬	Ê	Ô	_
3			#	3	C	S	c	s			ú	│	├	Ë	Ò	¾
4			$	4	D	T	d	t			ñ	┤	─	È	õ	¶
5			%	5	E	U	e	u			Ñ	Á	┼	€	Õ	§
6			&	6	F	V	f	v			ª	Â	ã	Í	µ	÷
7			'	7	G	W	g	w			º	À	Ã	Î	þ	¸
8			(	8	H	X	h	x			¿	©	╚	Ï	Þ	°
9			)	9	I	Y	i	y			®	╣	╔	┘	Ú	¨
a			*	:	J	Z	j	z			¬	║	╩	┌	Û	·
b			+	;	K	[	k	{			½	╗	╦	█	Ù	¹
c			,	<	L	\	l					¼	╝	╠	■	ý	³
d			-	=	M	]	m	}			¡	¢	=	¦	Ÿ	²
e			.	>	N	^	n	~			«	¥	╬	Ì	‾	■
f			/	?	O	_	o				»	┐	¤	■	´	

CP 860 (Portugal)

| hex | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | a | b | c | d | e | f |
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É	á	▒	└	╨	α	≡
1			!	1	A	Q	a	q	ü	À	í	▓	┴	╤	ß	±
2			"	2	B	R	b	r	é	È	ó	▓	┬	╥	Γ	≥
3			#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4			$	4	D	T	d	t	ã	õ	ñ	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u	à	ò	Ñ	╡	┼	╒	σ	⌡
6			&	6	F	V	f	v	Á	Ú	ª	╢	╞	╓	µ	÷
7			'	7	G	W	g	w	ç	ù	º	╖	╟	╫	τ	≈
8			(	8	H	X	h	x	ê	Ì	¿	╕	╚	╪	Φ	°
9			)	9	I	Y	i	y	Ê	Õ	Ò	╣	╔	┘	θ	·
a			*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Ω	
b			+	;	K	[	k	{	Í	¢	½	╗	╦	█	δ	√
c			,	<	L	\	l			Ô	£	¼	╝	╠	■	∞	ⁿ
d			-	=	M	]	m	}	ì	Ù	¡	╜	=	▌	ø	²
e			.	>	N	^	n	~	Ã	Pt	«	╛	╬	▐	∈	■
f			/	?	O	_	o		Â	Ó	»	┐	╧	▬	∩	

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CP 861 (Iceland)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É	á	░	└	╨	α	≡
1			!	1	A	Q	a	q	ü	æ	í	▒	┴	╤	β	±
2			"	2	B	R	b	r	é	Æ	ó	▓	┬	╥	Γ	≥
3			#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4			$	4	D	T	d	t	ä	ö	Á	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u	à	þ	Í	╡	┼	╒	σ	⌡
6			&	6	F	V	f	v	å	û	Ó	╢	╞	π	µ	÷
7			'	7	G	W	g	w	ç	Ý	Ú	╖	╟	╫	τ	≈
8			(	8	H	X	h	x	ê	ý	¿	╕	╚	╪	Φ	°
9			)	9	I	Y	i	y	ë	Ö	⌐	╣	╔	┘	θ	∙
a			*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Ω	·
b			+	;	K	[	k	{	Ð	ø	½	╗	╦	█	δ	√
c			,	<	L	\	l	|	ð	£	¼	╝	╠	▄	∞	ⁿ
d			-	=	M	]	m	}	Þ	Ø	¡	╜	=	█	ø	²
e			.	>	N	^	n	~	Ä	₧	«	╛	╬	█	∈	■
f			/	?	O	_	o		Å	ƒ	»	┐	╧	▀	∩	

CP 863 (French-Canadian)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É	¦	░	└	╨	α	≡
1			!	1	A	Q	a	q	ü	È	´	▒	┴	╤	β	±
2			"	2	B	R	b	r	é	Ê	ó	▓	┬	╥	Γ	≥
3			#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4			$	4	D	T	d	t	Â	Ë	¨	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u	à	Ï	¸	╡	┼	╒	σ	⌡
6			&	6	F	V	f	v	¶	û	³	╢	╞	π	µ	÷
7			'	7	G	W	g	w	ç	ù	¯	╖	╟	╫	τ	≈
8			(	8	H	X	h	x	ê	¤	Î	╕	╚	╪	Φ	°
9			)	9	I	Y	i	y	ë	Ô	⌐	╣	╔	┘	θ	∙
a			*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Ω	·
b			+	;	K	[	k	{	ï	¢	½	╗	╦	█	δ	√
c			,	<	L	\	l	|	î	£	¼	╝	╠	▄	∞	ⁿ
d			-	=	M	]	m	}	_	Ù	¾	╜	=	█	ø	²
e			.	>	N	^	n	~	À	Û	«	╛	╬	█	∈	■
f			/	?	O	_	o		§	ƒ	»	┐	╧	▀	∩	

CP 864 Arabic

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	ڟ	ß		·	¢	ﻼ	ــ	ﹸ
1			!	1	A	Q	a	q	·	∞	ـ	ﺍ	ﺭ	ﺝ	ﻁ	＂
2			"	2	B	R	b	r	●	φ	ﺋ	ﺏ	ﺹ	ﺩ	ﻅ	ﻭ
3			#	3	C	S	c	s	√	±	£	ﺓ	ﺽ	ﺫ	ﻉ	ﺀ
4			$	4	D	T	d	t	▒	½	¤	ﺕ	ﻍ	ﺭ	ﻝ	ﻱ
5			%	5	E	U	e	u	─	¼	ﺗ	ﺙ	ﻩ	ﺯ	ﻡ	ﺱ
6			&	6	F	V	f	v	│	≈		ﺛ	ﺃ	ﺱ	ﻥ	ﺵ
7			'	7	G	W	g	w	┼	«		U	!	ﻃ	ﻩ	ﺹ
8			(	8	H	X	h	x	┤	»	ﻝ	ﬡ	ﺀ	ﻅ	ﻭ	ﺿ
9			)	9	I	Y	i	y	┬	ﻯ	ﺟ	ﻕ	ﺀ	ﺀ	ﻯ	ﻻ
a			*	:	J	Z	j	z	├	ﻲ	ﺝ	ﺡ	ﺡ	ﺀ	ﺀ	ﻵ
b			+	;	K	[	k	{	┴		ﺡ	ﻑ	ﺥ	¦	ﺀ	ﻝ
c			,	<	L	\	l	|	┐		·	ﻡ	ﺥ	ﻙ	ﺀ	ﻙ
d				=	M	]	m	}	┌	ﻻ	ﺀ	ﻣ	ﺡ	÷	ﻉ	ﻼ
e			.	>	N	^	n	~	L	ﻻ	ﺀ	ﻩ	ﺥ	×	ﻉ	■
f			/	?	O	_	o		┘	ء	ﺀ	ﺀ	ﺀ	ﺀ	ﻉ	￠

CP 864 Arabic Extended

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	°	ﺍ		·	ﺹ	ﻼ	ــ	ﹸ
1			!	1	A	Q	a	q	ﹼ	،	ـ	ﺍ	ﺭ	ﺝ	ﻁ	＂
2			"	2	B	R	b	r	ﹷ	ﹾ	ﺋ	ﺏ	ﺹ	ﺩ	ﻅ	ﻭ
3			#	3	C	S	c	s	ﹷ	ﹾ	£	ﺓ	ﺽ	ﺫ	ﻉ	ﺀ
4			$	4	D	T	d	t	▒	ﹺ	¤	ﺕ	ﻍ	ﺭ	ﻝ	ﻱ
5			%	5	E	U	e	u	ﹾ	،	ﺗ	ﺙ	ﻩ	ﺯ	ﻡ	ﺱ
6			&	6	F	V	f	v	ﹶ	ﹿ		ﺛ	ﺃ	ﺱ	ﻥ	ﺵ
7			'	7	G	W	g	w	ﹷ	«		U	!	ﻃ	ﻩ	ﺹ
8			(	8	H	X	h	x	ﹸ	»	ﻝ	ﬡ	ﺀ	ﻅ	ﻭ	ﺿ
9			)	9	I	Y	i	y	ﹾ	ﻯ	ﺟ	ﻕ	ﺀ	ﺀ	ﻯ	ﻻ
a			*	:	J	Z	j	z	ﹶ	ﻲ	ﺝ	ﺡ	ﺡ	ﺀ	ﺀ	ﻵ
b			+	;	K	[	k	{	ﹼ	ﻻ	·	ﻑ	ﺥ	¦	ﺀ	ﻝ
c			,	<	L	\	l	|	ﹷ	ﻻ	·	ﻡ	ﺥ	ﻙ	ﺀ	ﻙ
d				=	M	]	m	}	ﹹ	ﻻ	ﺀ	ﻣ	ﺡ	÷	ﻉ	ﻼ
e			.	>	N	^	n	~	ﹸ	ﻻ	ﺀ	ﻩ	ﺥ	×	ﻉ	■
f			/	?	O	_	o		ﹾ	ء	ﺀ	ﺀ	ﺀ	ﺀ	ﻉ	￠

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CP 865 (Norway)

hex dez	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	a 160	b 176	c 192	d 208	e 224	f 240
0				0	@	P	`	p	Ç	É	á	░	└	╨	α	≡
1			!	1	A	Q	a	q	ü	æ	í	▒	┴	╤	β	±
2			"	2	B	R	b	r	é	Æ	ó	▓	┬	╥	Γ	≥
3			#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4			$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u	à	ò	Ñ	╡	┼	╒	σ	⌡
6			&	6	F	V	f	v	å	û	ª	╢	╞	╓	µ	÷
7			'	7	G	W	g	w	ç	ù	º	╖	╟	╫	τ	≈
8			(	8	H	X	h	x	ê	ÿ	¿	╕	╚	╪	Φ	°
9			)	9	I	Y	i	y	ë	Ö	⌐	╣	╔	┘	Θ	∙
a			*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Ω	·
b			+	;	K	[	k	{	ï	ø	½	╗	╦	█	δ	√
c			,	<	L	\	l	|	î	£	¼	╝	╠	▄	∞	ⁿ
d			-	=	M	]	m	}	ì	Ø	¡	╜	═	▌	ø	²
e			.	>	N	^	n	~	Ä	₧	«	╛	╬	▐	∈	■
f			/	?	O	_	o		Å	ƒ	¤	┐	╧	▀	∩	

CP 866 (Cyrillic)

hex dez	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	a 160	b 176	c 192	d 208	e 224	f 240
0				0	@	P	`	p	А	Р	а	░	└	╨	р	Ё
1			!	1	A	Q	a	q	Б	С	б	▒	┴	╤	с	ё
2			"	2	B	R	b	r	В	Т	в	▓	┬	╥	т	Є
3			#	3	C	S	c	s	Г	У	г	│	├	╙	у	є
4			$	4	D	T	d	t	Д	Ф	д	┤	─	╘	ф	Ї
5			%	5	E	U	e	u	Е	Х	е	╡	┼	╒	х	Ї
6			&	6	F	V	f	v	Ж	Ц	ж	╢	╞	╓	ц	ў
7			'	7	G	W	g	w	З	Ч	з	╖	╟	╫	ч	ў
8			(	8	H	X	h	x	И	Ш	и	╕	╚	╪	ш	°
9			)	9	I	Y	i	y	Й	Щ	й	╣	╔	┘	щ	∙
a			*	:	J	Z	j	z	К	Ъ	к	║	╩	┌	ъ	·
b			+	;	K	[	k	{	Л	Ы	л	╗	╦	█	ы	√
c			,	<	L	\	l	¦	М	Ь	м	╝	╠	▄	ь	№
d			-	=	M	]	m	}	Н	Э	н	╜	═	▌	э	¤
e			.	>	N	^	n	~	О	Ю	о	╛	╬	▐	ю	■
f			/	?	O	_	o		П	Я	п	┐	╧	▀	я	

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CP 866 Bulgaria

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	А	Р	а	р	└	░	α	≡
1			!	1	A	Q	a	q	Б	С	б	с	┴	▒	β	±
2			"	2	B	R	b	r	В	Т	в	т	┬	▓	Г	≥
3			#	3	C	S	c	s	Г	У	г	у	├	│	π	≤
4			$	4	D	T	d	t	Д	Ф	д	ф	─	┤	Σ	⌠
5			%	5	E	U	e	u	Е	Х	е	х	┼	№	σ	⌡
6			&	6	F	V	f	v	Ж	Ц	ж	ц	╢	§	µ	÷
7			'	7	G	W	g	w	З	Ч	з	ч	‖	┐	τ	≈
8			(	8	H	X	h	x	И	Ш	и	ш	╚	┘	Φ	°
9			)	9	I	Y	i	y	Й	Щ	й	щ	╔	┌	Θ	∙
a			*	:	J	Z	j	z	К	Ъ	к	ъ	╩	┌	Ω	·
b			+	;	K	[	k	{	Л	Ы	л	ы	╦	█	δ	√
c			,	<	L	\	l	¦	М	Ь	м	ь	╠	▄	∞	ⁿ
d			–	=	M	]	m	}	Н	Э	н	э	=	▌	ø	²
e			.	>	N	^	n	~	О	Ю	о	ю	╬	▐	Є	■
f			/	?	O	_	o		П	Я	п	я	┘	▀	∩	

CP 1250 Win Latin 2

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	€			°	Ŕ	Đ	ŕ	đ
1			!	1	A	Q	a	q		'	ˇ	±	Á	Ń	á	ń
2			"	2	B	R	b	r	‚	'	˘	˛	Â	Ň	â	ň
3			#	3	C	S	c	s		"	Ł	ł	Ă	Ó	ă	ó
4			$	4	D	T	d	t	„	"	¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u	…	•	Ą	µ	Ĺ	Ő	ĺ	ő
6			&	6	F	V	f	v	†	–	¦	¶	Ć	Ö	ć	ö
7			'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x			¨	¸	Č	Ř	č	ř
9			)	9	I	Y	i	y	‰	™	©	ą	É	Ů	é	ů
a			*	:	J	Z	j	z	Š	š	Ş	ş	Ę	Ú	ę	ú
b			+	;	K	[	k	{	‹	›	«	»	Ë	Ű	ë	ű
c			,	<	L	\	l			Ś	ś	¬	Ľ	Ě	Ü	ě	ü
d			–	=	M	]	m	}	Ť	ť		˝	Í	Ý	í	ý
e			.	>	N	^	n	~	Ž	ž	®	ľ	Î	Ţ	î	ţ
f			/	?	O	_	o		Ź	ź	Ż	ż	Ď	ß	ď	·

64

CP 1251 Win Cyrillic

hex dez	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	a 160	b 176	c 192	d 208	e 224	f 240
0				0	@	P	`	p	ħ	ђ		°	А	Р	а	р
1			!	1	A	Q	a	q	ѓ	'	Ў	±	Б	С	б	с
2			"	2	B	R	b	r	‚	'	ў	І	В	Т	в	т
3			#	3	C	S	c	s	ѓ	"	Ј	і	Г	У	г	у
4			$	4	D	T	d	t	„	"	¤	ґ	Д	Ф	д	ф
5			%	5	E	U	e	u	…	•	Ґ	µ	Е	Х	е	х
6			&	6	F	V	f	v	†	–	¦	¶	Ж	Ц	ж	ц
7			'	7	G	W	g	w	‡	—	§	·	З	Ч	з	ч
8			(	8	H	X	h	x	€		Ё	ё	И	Ш	и	ш
9			)	9	I	Y	i	y	‰	™	©	№	Й	Щ	й	щ
a			*	:	J	Z	j	z	Љ	љ	Є	є	К	Ъ	к	ъ
b			+	;	K	[	k	{	‹	›	«	»	Л	Ы	л	ы
c			,	<	L	\	l			Њ	њ	¬	ј	М	Ь	м	ь
d			–	=	M	]	m	}	Ќ	ќ	–	ѕ	Н	Э	н	э
e			.	>	N	^	n	~	ħ	ћ	®	ѕ	О	Ю	о	ю
f			/	?	O	_	o		Џ	џ	Ї	ї	П	Я	п	я

CP 1252 Win Latin 1

hex dez	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	a 160	b 176	c 192	d 208	e 224	f 240
0				0	@	P	`	p	€			°	À	Ð	à	ð
1			!	1	A	Q	a	q		`	¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r	‚	´	¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s	ƒ	"	£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t	„	"	¤	'	Ä	Ô	ä	ô
5			%	5	E	U	e	u	…	•	¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v	†	–	¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x	ˆ	˜	¨	¸	È	Ø	è	ø
9			)	9	I	Y	i	y	‰	™	©	¹	É	Ù	é	ù
a			*	:	J	Z	j	z	Š	š	ª	º	Ê	Ú	ê	ú
b			+	;	K	[	k	{	‹	›	«	»	Ë	Û	ë	û
c			,	<	L	\	l			Œ	œ	¬	¼	Ì	Ü	ì	ü
d			–	=	M	]	m	}			–	½	Í	Ý	í	ý
e			.	>	N	^	n	~			®	¾	Î	Þ	î	þ
f			/	?	O	_	o			Ÿ	¯	¿	Ï	ß	ï	ÿ

CP 1253 Win Greek

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p				°	Ϊ	Π	ΰ	π
1			!	1	A	Q	a	q		΄	¨	±	Α	Ρ	α	ρ
2			"	2	B	R	b	r	‚	΄	Ά	²	Β		β	σ
3			#	3	C	S	c	s	ƒ	"	£	³	Γ	Σ	γ	ς
4			$	4	D	T	d	t	„	"	¤	΄	Δ	Τ	δ	τ
5			%	5	E	U	e	u	…	•	¥	μ	Ε	Υ	ε	υ
6			&	6	F	V	f	v	†	–	¦	¶	Ζ	Φ	ζ	φ
7			'	7	G	W	g	w	‡	—	§	·	Η	Χ	η	χ
8			(	8	H	X	h	x			¨	Ε	Θ	Ψ	θ	ψ
9			)	9	I	Y	i	y	‰	™	©	Ή	Ι	Ω	ι	ω
a			*	:	J	Z	j	z			¨	Ι	Κ	Ϊ	κ	ϊ
b			+	;	K	[	k	{	‹	›	«	»	Λ	Ϋ	λ	ϋ
c			,	<	L	\	l	|			¬	Ό	Μ	ά	μ	ό
d			–	=	M	]	m	}				½	Ν	έ	ν	ύ
e			.	>	N	^	n	~			®	Ύ	Ξ	ή	ξ	ώ
f			/	?	O	_	o				―	Ώ	Ο	ί	ο	

CP 1254 Win Turkish

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	€			°	À	Ğ	à	ğ
1			!	1	A	Q	a	q		΄	¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r	‚	'	¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s	ƒ	"	£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t	„	"	¤	΄	Ä	Ô	ä	ô
5			%	5	E	U	e	u	…	•	¥	μ	Å	Õ	å	õ
6			&	6	F	V	f	v	†	–	¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w	‡	—	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x	^	~	¨	¸	È	Ø	è	ø
9			)	9	I	Y	i	y	‰	™	©	¹	É	Ù	é	ù
a			*	:	J	Z	j	z	Š	š	ª	º	Ê	Ú	ê	ú
b			+	;	K	[	k	{	‹	›	«	»	Ë	Û	ë	û
c			,	<	L	\	l	|	Œ	œ	¬	¼	Ì	Ü	ì	ü
d			–	=	M	]	m	}				½	Í	İ	í	ı
e			.	>	N	^	n	~			®	¾	Î	Ş	î	ş
f			/	?	O	_	o			Ÿ	¯	¿	Ï	ß	ï	ÿ

8859-1 Latin 1

| hex | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | a | b | c | d | e | f |
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É		°	À	Đ	à	ð
1			!	1	A	Q	a	q	ü	æ	¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r	é	Æ	¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s	â	ô	£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t	ä	ö	¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u	à	ò	¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v	å	û	¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w	ç	ù	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x	ê	ÿ	¨	¸	È	Ø	è	ø
9			)	9	I	Y	i	y	ë	Ö	©	¹	É	Ù	é	ù
a			*	:	J	Z	j	z	è	Ü	ª	º	Ê	Ú	ê	ú
b			+	;	K	[	k	{	ï	¢	«	»	Ë	Û	ë	û
c			,	<	L	\	l	|	î	£	¬	¼	Ì	Ü	ì	ü
d			-	=	M	]	m	}	ì	¥	–	½	Í	Ý	í	ý
e			.	>	N	^	n	~	Ä	₧	®	¾	Î	Þ	î	þ
f			/	?	O	_	o		Å	ƒ	‾	¿	Ï	ß	ï	ÿ

8859-1 Latin 1 (SAP)

| hex | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | a | b | c | d | e | f |
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	┼		°	À	Đ	à	ð
1			!	1	A	Q	a	q	ü	─	¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r	é	│	¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s	â	┌	£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t	ä	┐	¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u	à	└	¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v	å	┘	¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w	ç	├	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x	ê	┤	¨	¸	È	Ø	è	ø
9			)	9	I	Y	i	y	ë	┬	©	¹	É	Ù	é	ù
a			*	:	J	Z	j	z	è	┴	ª	º	Ê	Ú	ê	ú
b			+	;	K	[	k	{	ï		«	»	Ë	Û	ë	û
c			,	<	L	\	l	|	î		¬	¼	Ì	Ü	ì	ü
d			-	=	M	]	m	}	ì		–	½	Í	Ý	í	ý
e			.	>	N	^	n	~	Ä		®	¾	Î	Þ	î	þ
f			/	?	O	_	o		Å		‾	¿	Ï	ß	ï	ÿ

ISO 8859-2 (ISO Latin 2)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É		°	Ŕ	Đ	ŕ	đ
1			!	1	A	Q	a	q	ü	æ	Ą	ą	Á	Ń	á	ń
2			"	2	B	R	b	r	é	Æ	˘	˛	Â	Ň	â	ň
3			#	3	C	S	c	s	â	ô	Ł	ł	Ă	Ó	ă	ó
4			$	4	D	T	d	t	ä	ö	¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u	à	ò	Ľ	ľ	Ĺ	Ő	ĺ	ő
6			&	6	F	V	f	v	å	û	Ś	ś	Ć	Ö	ć	ö
7			'	7	G	W	g	w	ç	ù	§	ˇ	Ç	×	ç	÷
8			(	8	H	X	h	x	ê	ÿ	¨	¸	Č	Ř	č	ř
9			)	9	I	Y	i	y	ë	Ö	Š	š	É	Ů	é	ů
a			*	:	J	Z	j	z	è	Ü	Ş	ş	Ę	Ú	ę	ú
b			+	;	K	[	k	{	ï	¢	Ť	ť	Ë	Ű	ë	ű
c			,	<	L	\	l	|	î	£	Ź	ź	Ě	Ü	ě	ü
d			−	=	M	]	m	}	ì	¥		˝	Í	Ý	í	ý
e			.	>	N	^	n	~	Ä	Pt	Ž	ž	Î	Ţ	î	ţ
f			/	?	O	_	o		Å	ƒ	Ż	ż	Ď	ß	ď	˙

ISO 8859-5 Cyrillic

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É		А	Р	а	р	№
1			!	1	A	Q	a	q	ü	æ	Ё	Б	С	б	с	ё
2			"	2	B	R	b	r	é	Æ	Ђ	В	Т	в	т	ђ
3			#	3	C	S	c	s	â	ô	Ѓ	Г	У	г	у	ѓ
4			$	4	D	T	d	t	ä	ö	Є	Д	Ф	д	ф	є
5			%	5	E	U	e	u	à	ò	Ѕ	Е	Х	е	х	ѕ
6			&	6	F	V	f	v	å	û	І	Ж	Ц	ж	ц	і
7			'	7	G	W	g	w	ç	ù	Ї	З	Ч	з	ч	ї
8			(	8	H	X	h	x	ê	ÿ	Ј	И	Ш	и	ш	ј
9			)	9	I	Y	i	y	ë	Ö	Љ	Й	Щ	й	щ	љ
a			*	:	J	Z	j	z	è	Ü	Њ	К	Ъ	к	ъ	њ
b			+	;	K	[	k	{	ï	¢	Ћ	Л	Ы	л	ы	ћ
c			,	<	L	\	l	|	î	£	Ќ	М	Ь	м	ь	ќ
d			−	=	M	]	m	}	ì	¥		Н	Э	н	э	§
e			.	>	N	^	n	~	Ä	Pt	Ў	О	Ю	о	ю	ÿ
f			/	?	O	_	o		Å	ƒ	Џ	П	Я	п	я	џ

ISO 8859-7 (Latin/Greek)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É		°	Î	Π	Ü	π
1			!	1	A	Q	a	q	ü	æ	'	±	A	P	α	ρ
2			"	2	B	R	b	r	é	Æ	'	²	B		β	σ
3			#	3	C	S	c	s	â	ô	£	³	Γ	Σ	γ	ς
4			$	4	D	T	d	t	ä	ö		'	Δ	T	δ	τ
5			%	5	E	U	e	u	à	ò		»	E	Y	ε	υ
6			&	6	F	V	f	v	å	û	¦	Ά	Z	Φ	ζ	φ
7			'	7	G	W	g	w	ç	ù	§	·	H	X	η	χ
8			(	8	H	X	h	x	ê	ÿ	¨	Έ	Θ	Ψ	θ	ψ
9			)	9	I	Y	i	y	ë	Ö	©	Ή	I	Ω	ι	ω
a			*	:	J	Z	j	z	è	Ü		Ί	K	Ϊ	κ	ϊ
b			+	;	K	[	k	{	ï	¢	«	»	Λ	Ύ	λ	ϋ
c			,	<	L	\	l	|	î	£	¬	Ό	M	ά	μ	ό
d			–	=	M	]	m	}	ì	¥	–	½	N	έ	ν	ú
e			.	>	N	^	n	~	Ä	₧		Ύ	Ξ	ή	ξ	ώ
f			/	?	O	_	o		Å	ƒ	―	Ώ	O	ί		ο

ISO 8859-9 (Turkish)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É		°	À	Ğ	à	ğ
1			!	1	A	Q	a	q	ü	æ	¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r	é	Æ	¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s	â	ô	£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t	ä	ö	¤	'	Ä	Ô	ä	ô
5			%	5	E	U	e	u	à	ò	¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v	å	û	¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w	ç	ù	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x	ê	ÿ	¨	¸	È	Ø	è	ø
9			)	9	I	Y	i	y	ë	Ö	©	¹	É	Ù	é	ù
a			*	:	J	Z	j	z	è	Ü	ª	º	Ê	Ú	ê	ú
b			+	;	K	[	k	{	ï	¢	«	»	Ë	Û	ë	û
c			,	<	L	\	l	|	î	£	¬	¼	Ì	Ü	ì	ü
d			–	=	M	]	m	}	ì	¥	–	½	Í	İ	í	ı
e			.	>	N	^	n	~	Ä	₧	®	¾	Î	Ş	î	ş
f			/	?	O	_	o		Å	ƒ	―	¿	Ï	ß	ï	ÿ

ISO 8859-15 Euro (Code Page 923)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	É		°	À	Ð	à	ð
1			!	1	A	Q	a	q	ü	æ	¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r	é	Æ	¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s	â	ô	£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t	ä	ö	€	Ž	Ä	Ô	ä	ô
5			%	5	E	U	e	u	à	ò	¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v	å	û	Š	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w	ç	ù	§	·	Ç	×	ç	÷
8			(	8	H	X	h	x	ê	ÿ	š	ž	È	Ø	è	ø
9			)	9	I	Y	i	y	ë	Ö	©	¹	É	Ù	é	ù
a			*	:	J	Z	j	z	è	Ü	ª	º	Ê	Ú	ê	ú
b			+	;	K	[	k	{	ï	¢	«	»	Ë	Û	ë	û
c			,	<	L	\	l	|	î	£	¬	Œ	Ì	Ü	ì	ü
d			-	=	M	]	m	}	ì	¥	-	œ	Í	Ý	í	ý
e			.	>	N	^	n	~	Ä	Pt	®	Ÿ	Î	Þ	î	þ
f			/	?	O	_	o		Å	ƒ	‾	¿	Ï	ß	ï	ÿ

BRASCII

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p				°	À	Ð	à	ð
1			!	1	A	Q	a	q			¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r			¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s			£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t			¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u			¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v			¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w			§	·	Ç	Œ	ç	œ
8			(	8	H	X	h	x			¨	¸	È	Ø	è	ø
9			)	9	I	Y	i	y			©	¹	É	Ù	é	ù
a			*	:	J	Z	j	z			ª	º	Ê	Ú	ê	ú
b			+	;	K	[	k	{			«	»	Ë	Û	ë	û
c			,	<	L	\	l	|			¬	¼	Ì	Ü	ì	ü
d			-	=	M	]	m	}			-	½	Í	Ý	í	ý
e			.	>	N	^	n	~			®	¾	Î	Þ	î	þ
f			/	?	O	_	o				‾	¿	Ï	ß	ï	ÿ

Abicomp

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p				ò	¡	ò		
1			!	1	A	Q	a	q			À	ó	à	ó		
2			"	2	B	R	b	r			Á	Õ	á	ô		
3			#	3	C	S	c	s			Â	Õ	â	õ		
4			$	4	D	T	d	t			Ã	Ö	ã	ö		
5			%	5	E	U	e	u			Ä	Œ	ä	œ		
6			&	6	F	V	f	v			Ç	Ù	ç	ù		
7			'	7	G	W	g	w			È	Ú	è	ú		
8			(	8	H	X	h	x			É	Û	é	û		
9			)	9	I	Y	i	y			Ê	Ü	ê	ü		
a			*	:	J	Z	j	z			Ë	Ÿ	ë	ÿ		
b			+	;	K	[	k	{			Ì	¨	ì	ß		
c			,	<	L	\	l	|			Í	£	í	ª		
d			–	=	M	]	m	}			Î	·	î	º		
e			.	>	N	^	n	~			Ï	§	ï	¿		
f			/	?	O	_	o				Ñ	°	ñ	±		

Roman 8

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p				‾	â	Å	Á	þ
1			!	1	A	Q	a	q			À	Ý	ê	î	Ã	Þ
2			"	2	B	R	b	r			Â	ý	ô	Ø	ã	·
3			#	3	C	S	c	s			È	°	û	Æ	Ð	µ
4			$	4	D	T	d	t			Ê	Ç	á	å	ð	¶
5			%	5	E	U	e	u			Ë	ç	é	í	Í	¾
6			&	6	F	V	f	v			Î	Ñ	ó	ø	Ì	—
7			'	7	G	W	g	w			Ï	ñ	ú	æ	Ó	¼
8			(	8	H	X	h	x			'	¡	à	Ä	Ò	½
9			)	9	I	Y	i	y			`	¿	è	ì	Õ	ª
a			*	:	J	Z	j	z			^	¤	ò	Ö	õ	º
b			+	;	K	[	k	{			¨	£	ù	Ü	Š	«
c			,	<	L	\	l	|			~	¥	ä	É	š	■
d			–	=	M	]	m	}			Ù	§	ë	ï	Ú	»
e			.	>	N	^	n	~			Û	ƒ	ö	ß	Ÿ	±
f			/	?	O	_	o				£	¢	ü	Ô	ÿ	

Coax/Twinax (Hebrew)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	א	ן	á	░	└	╨	א	ל
1			!	1	A	Q	a	q	ב	ט	í	▒	┴	╤	ב	ט
2			"	2	B	R	b	r	ג	י	ó	▓	┬	╥	ג	י
3			#	3	C	S	c	s	ד	ך	ú	│	├	╙	ד	ך
4			$	4	D	T	d	t	ה	כ	ñ	┤	─	╘	ה	כ
5			%	5	E	U	e	u	ו	ם	Ñ	╡	┼	╒	ו	ם
6			&	6	F	V	f	v	ז	צ	ª	╢	╞	╓	ז	צ
7			'	7	G	W	g	w	ח	ק	º	╖	╟	╫	ח	ק
8			(	8	H	X	h	x	ט	ר	¿	╕	╚	╪	ט	ר
9			)	9	I	Y	i	y	י	ש	⌐	╣	╔	┘	י	ש
a			*	:	J	Z	j	z	ך	ת	¬	║	╩	┌	ך	ת
b			+	;	K	[	k	{	כ	¢	½	╗	╦	█	כ	√
c			,	<	L	\	l	¦	ל	£	¼	╝	╠	▄	ל	ⁿ
d			-	=	M	]	m	}	מ	¥	¡	╜	=	▌	ם	²
e			.	>	N	^	n	~	ם	₧	«	┘	╬	▐	מ	■
f			/	?	O	_	o		ן	ƒ	»	┐	╧	▀	ן	

New-437 (Hebrew)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	א	ן	á	░	└	╨	α	≡
1			!	1	A	Q	a	q	ב	ט	í	▒	┴	╤	β	±
2			"	2	B	R	b	r	ג	י	ó	▓	┬	╥	Γ	≥
3			#	3	C	S	c	s	ד	ך	ú	│	├	╙	π	≤
4			$	4	D	T	d	t	ה	כ	ñ	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u	ו	ם	Ñ	╡	┼	╒	σ	⌡
6			&	6	F	V	f	v	ז	צ	ª	╢	╞	╓	µ	÷
7			'	7	G	W	g	w	ח	ק	º	╖	╟	╫	τ	≈
8			(	8	H	X	h	x	ט	ר	¿	╕	╚	╪	Φ	°
9			)	9	I	Y	i	y	י	ש	⌐	╣	╔	┘	θ	·
a			*	:	J	Z	j	z	ך	ת	¬	║	╩	┌	Ω	·
b			+	;	K	[	k	{	כ	¢	½	╗	╦	█	δ	√
c			,	<	L	\	l	¦	ל	£	¼	╝	╠	▄	∞	ⁿ
d			-	=	M	]	m	}	מ	¥	¡	╜	=	▌	ø	²
e			.	>	N	^	n	~	ם	₧	«	┘	╬	▐	∈	■
f			/	?	O	_	o		ן	ƒ	»	┐	╧	▀	∩	

New-Dig 850 (Hebrew)

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	'	p	א	נ	á	░	└	ð	א	ן
1			!	1	A	Q	a	q	ב	ט	í	▒	⊥	Ð	ב	ע
2			"	2	B	R	b	r	ג	י	ó	▓	┬	Ê	ג	ף
3			#	3	C	S	c	s	ד	ך	ú	│	├	Ë	ד	ף
4			$	4	D	T	d	t	ה	כ	ñ	┤	─	È	ה	פ
5			%	5	E	U	e	u	ו	ל	Ñ	Á	┼	ı	ו	ץ
6			&	6	F	V	f	v	ז	ם	ª	Â	ã	í	ז	צ
7			'	7	G	W	g	w	ח	מ	º	À	Ã	Î	ח	ק
8			(	8	H	X	h	x	ט	ן	¿	©	└	Ï	ט	ר
9			)	9	I	Y	i	y	י	ש	®	╣	╔	┘	י	ש
a			*	:	J	Z	j	z	ך	ת	¬	║	╩	┌	ך	ת
b			+	;	K	[	k	{	כ	ø	½	╗	╦	■	כ	¹
c			,	<	L	\	l	|	ל	£	¼	╝	╠	■	ל	³
d			-	=	M	]	m	}	ם	Ø	¡	¢	=	¦	ם	²
e			.	>	N	^	n	~	מ	×	«	¥	╬	Ì	מ	■
f			/	?	O	_	o		ן	ƒ	»	┐	¤	■	ן	

Old-Code 860 (Hebrew)

רוט	0	1	2	3	4	5	6	7	8	9	נ	ל	ד	ה	ו	ז
תוה	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	א	נ	א	נ	á	░	└	╨	α	≡
1			!	1	A	Q	ב	ט	ב	À	í	▒	⊥	╤	β	±
2			"	2	B	R	ג	י	ג	È	ó	▓	┬	╥	Γ	≥
3			#	3	C	S	ד	ך	ד	ף	ú	│	├	╙	π	≤
4			$	4	D	T	ה	כ	ã	õ	ñ	┤	─	╘	Σ	⌠
5			%	5	E	U	ו	ל	ו	ק	Ñ	╡	┼	╒	σ	⌡
6			&	6	F	V	ז	ם	Á	Ú	ª	╢	╞	╓	μ	÷
7			'	7	G	W	ח	מ	ח	ק	º	╖	╟	╫	τ	≈
8			(	8	H	X	ט	ן	ט	ì	¿	╕	╚	╪	Φ	°
9			)	9	I	Y	י	ש	Ê	Õ	Ò	╣	╔	┘	θ	∙
נ			*	:	J	Z	ך	ת	ך	ן	¬	║	╩	┌	Ω	·
ל			+	;	K	[	כ	{	í	¢	½	╗	╦	■	δ	√
ד			,	<	L	\	ל	|	Ô	£	¼	╝	╠	■	∞	ⁿ
ה			-	=	M	]	ם	}	í	Ù	¡	╜	=	█	ø	²
ו			.	>	N	^	מ	~	Ã	₧	«	┘	╬	█	∈	■
ז			/	?	O	_	ן		Â	Ó	»	┐	╧	■	∩	

Flarro 863 (Hebrew)

רוט חוה	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	ב 160	ג 176	ד 192	ה 208	ו 224	ז 240
0				0	@	ג	א	ב	א	ב	¦	░	└	╨	α	≡
1			!	1	ב	ט	ב	ט	ב	È	'	▒	┴	╤	β	±
2			"	2	ג	ע	ג	ע	ג	Ê	ó	▓	┬	π	Γ	≥
3			#	3	ד	ף	ד	ף	ד	ה	ú	│	├	⊔	π	≤
4			$	4	ה	פ	ה	פ	Â	É	¨	┤	─	╘	Σ	⌠
5			%	5	ו	ץ	ו	ץ	ו	Ï	¸	╡	┼	F	σ	⌡
6	א		&	6	ז	צ	ז	צ	¶	צ	³	╢	╞	╓	f	'
7			'	7	ח	ק	ח	ק	ח	ק	¯	╖	╟	╫	τ	≈
8			(	8	ט	ר	ט	ר	ט	¤	î	╕	╚	╪	Φ	°
9			)	9	י	ש	י	ש	י	Ô	⌐	╣	╔	┘	Θ	∙
ב			*	:	ך	ת	ך	ת	ך	ת	¬	║	╩	┌	Ω	·
ג			+	;	כ	[	כ	{	כ	¢	½	╗	╦	█	δ	√
ד			,	<	ל	\	ל	|	ל	£	¼	╝	╠	▄	∞	ⁿ
ה			-	=	ם	]	ם	}	=	Û	¾	╜	═	▌	φ	²
ו			.	>	מ	^	מ	~	À	Ù	«	╛	╬	▐	ε	■
ז			/	?	ן	_	ן		§	ƒ	»	┐	╧	▀	∩	

865 Hebrew

hex dez	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	a 160	b 176	c 192	d 208	e 224	f 240
0				0	@	P	`	p	א	נ	á	░	└	╨	α	≡
1			!	1	A	Q	a	q	ב	ס	í	▒	┴	╤	β	±
2			"	2	B	R	b	r	ג	ע	ó	▓	┬	π	Γ	≥
3			#	3	C	S	c	s	ד	ף	ú	│	├	⊔	π	≤
4			$	4	D	T	d	t	ה	פ	ñ	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u	ו	ץ	Ñ	╡	┼	F	σ	⌡
6			&	6	F	V	f	v	ז	צ	ª	╢	╞	╓	f	'
7			'	7	G	W	g	w	ח	ק	Ω	╖	╟	╫	τ	≈
8			(	8	H	X	h	x	ט	ר	¿	╕	╚	╪	Φ	°
9			)	9	I	Y	i	y	י	ש	⌐	╣	╔	┘	Θ	∙
a			*	:	J	Z	j	z	ך	ת	¬	║	╩	┌	Ω	·
b			+	;	K	[	k	{	כ	ø	½	╗	╦	█	δ	√
c			,	<	L	\	l	|	ל	£	¼	╝	╠	▄	∞	ⁿ
d			-	=	M	]	m	}	ם	Ø	¡	╜	═	▌	φ	²
e			.	>	N	^	n	~	מ	₧	«	╛	╬	▐	ε	■
f			/	?	O	_	o		ן	ƒ	¤	┐	╧	▀	∩	

CP 1257

hex dez	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	a 160	b 176	c 192	d 208	e 224	f 240
0				0	@	P	`	p	€			°	Ą	Š	ą	š
1			!	1	A	Q	a	q		`		±	Į	Ń	į	ń
2			"	2	B	R	b	r	‚	'	¢	²	Ā	Ņ	ā	ņ
3			#	3	C	S	c	s		"	£	³	Ć	Ó	ć	ó
4			$	4	D	T	d	t	„	"	¤		Ä	Ō	ä	ō
5			%	5	E	U	e	u	…	•		µ	Å	Õ	å	õ
6			&	6	F	V	f	v	†	–	¦	¶	Ę	Ö	ę	ö
7			'	7	G	W	g	w	‡	—	§	·	Ē	×	ē	÷
8			(	8	H	X	h	x			Ø	ø	Č	Ų	č	ų
9			)	9	I	Y	i	y	‰	™	©	¹	É	Ł	é	ł
a			*	:	J	Z	j	z			®	º	Ź	Ś	ź	ś
b			+	;	K	[	k	{	‹	›	«	»	Ė	Ū	ė	ū
c			,	<	L	\	l	|			¬	¼	Ģ	Ü	ģ	ü
d			-	=	M	]	m	}				½	Ķ	Ż	ķ	ż
e			.	>	N	^	n	~			®	¾	Ī	Ž	ī	ž
f			/	?	O	_	o				Æ	æ	Ļ	ß	ļ	

866 Ukraine

hex dez	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	a 160	b 176	c 192	d 208	e 224	f 240
0				0	@	P	`	p	А	Р	а	░	└	╨	р	Ё
1			!	1	A	Q	a	q	Б	С	б	▒	┴	╤	с	ё
2			"	2	B	R	b	r	В	Т	в	▓	┬	╥	т	Ґ
3			#	3	C	S	c	s	Г	У	г	│	├	╙	у	ґ
4			$	4	D	T	d	t	Д	Ф	д	┤	─	╘	ф	Є
5			%	5	E	U	e	u	Е	Х	е	╡	┼	╒	х	є
6			&	6	F	V	f	v	Ж	Ц	ж	╢	╞	╓	ц	І
7			'	7	G	W	g	w	З	Ч	з	╖	╟	╫	ч	і
8			(	8	H	X	h	x	И	Ш	и	╕	╚	╪	ш	Ї
9			)	9	I	Y	i	y	Й	Щ	й	╣	╔	┘	щ	ї
a			*	:	J	Z	j	z	К	Ъ	к	║	╩	┌	ъ	·
b			+	;	K	[	k	{	Л	Ы	л	╗	╦	█	ы	√
c			,	<	L	\	l	|	М	Ь	м	╝	╠	▄	ь	№
d			-	=	M	]	m	}	Н	Э	н	╜	═	▌	э	¤
e			.	>	N	^	n	~	О	Ю	о	╛	╬	▐	ю	■
f			/	?	O	_	o		П	Я	п	┐	╧	▀	я	

866 Kazakhstan

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	А	Р	а	░	└	╨	р	ə
1			!	1	A	Q	a	q	Б	С	б	▒	┴	╤	с	Ғ
2			"	2	B	R	b	r	В	Т	в	▓	┬	╥	т	Қ
3			#	3	C	S	c	s	Г	У	г	│	├	╙	у	Ң
4			$	4	D	T	d	t	Д	Ф	д	┤	─	╘	ф	Ө
5			%	5	E	U	e	u	Е	Х	е	╡	┼	╒	х	Ұ
6			&	6	F	V	f	v	Ж	Ц	ж	╢	╞	╓	ц	Ү
7			'	7	G	W	g	w	З	Ч	з	╖	╟	╫	ч	h
8			(	8	H	X	h	x	И	Ш	и	╕	╚	╪	ш	ə
9			)	9	I	Y	i	y	Й	Щ	й	╣	╔	┘	щ	F
a			*	:	J	Z	j	z	К	Ъ	к	║	╩	┌	ъ	Қ
b			+	;	K	[	k	{	Л	Ы	л	╗	╦	█	ы	Н
c			,	<	L	\	l	¦	М	Ь	м	╝	╠	▄	ь	Ө
d			-	=	M	]	m	}	Н	Э	н	╜	=	▌	э	Ұ
e			.	>	N	^	n	~	О	Ю	о	╛	╬	▐	ю	Ү
f			/	?	O	_	o		П	Я	п	┐	╧	▀	Я	

Kamenicky

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Č	É	á	░	└	╨	α	≡
1			!	1	A	Q	a	q	ü	ž	í	▒	┴	╤	β	±
2			"	2	B	R	b	r	é	Ž	ó	▓	┬	╥	Γ	≥
3			#	3	C	S	c	s	ď	ô	ú	│	├	╙	π	≤
4			$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u	Ď	Ó	Ñ	╡	┼	╒	σ	⌡
6			&	6	F	V	f	v	Ť	ů	Ů	╢	╞	╓	µ	÷
7			'	7	G	W	g	w	č	Ú	Ö	╖	╟	╫	τ	≈
8			(	8	H	X	h	x	ě	ý	š	╕	╚	╪	Φ	°
9			)	9	I	Y	i	y	Ě	Ö	ř	╣	╔	┘	Θ	∙
a			*	:	J	Z	j	z	Ĺ	Ü	ŕ	║	╩	┌	Ω	·
b			+	;	K	[	k	{	Í	Š	Ŕ	╗	╦	█	δ	√
c			,	<	L	\	l	¦	ĺ	Ľ	¼	╝	╠	▄	∞	ⁿ
d			-	=	M	]	m	}	ľ	ý	§	╜	=	▌	ø	²
e			.	>	N	^	n	~	Ä	Ř	«	╛	╬	▐	∈	■
f			/	?	O	_	o		Á	Ĺ	»	┐	╧	▀	∩	

Mazovia

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ç	Ę	Ź	▒	L	Ш	α	≡
1			!	1	A	Q	a	q	ü	ę	Ż	▓	⊥	╤	β	±
2			"	2	B	R	b	r	é	ł	ó	▓	⊤	π	Γ	≥
3			#	3	C	S	c	s	â	ō	Ó	│	├	╨	π	≤
4			$	4	D	T	d	t	ä	ö	ń	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u	à	Ć	Ń	╡	┼	╒	σ	⌡
6			&	6	F	V	f	v	ą	û	ź	╢	╞	╥	µ	÷
7			'	7	G	W	g	w	ç	ù	ż	╖	╟	╫	τ	≈
8			(	8	H	X	h	x	ê	Ś	¿	╕	╚	╪	Φ	°
9			)	9	I	Y	i	y	ë	Ö	⌐	╣	╔	╔	Θ	∙
a			*	:	J	Z	j	z	è	Ü	¬	║	╩	⌐	Ω	·
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CP 775

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
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2			"	2	B	R	b	r	é	Æ	ó	▓	┬	ę	ō	"
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CRO-ASCII

hex dez	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	a 160	b 176	c 192	d 208	e 224	f 240
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1			!	1	A	Q	a	q	ü	æ	í	▓	┴	╤	β	±
2			"	2	B	R	b	r	é	Æ	ó	▓	┬	╥	Γ	≥
3			#	3	C	S	c	s	â	ô	ú	│	├	╙	π	≤
4			$	4	D	T	d	t	ä	ö	ñ	┤	─	╘	Σ	⌠
5			%	5	E	U	e	u	à	ò	Ñ	╡	┼	╒	σ	⌡
6			&	6	F	V	f	v	å	û	ª	╢	╞	╓	µ	÷
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8			(	8	H	X	h	x	ê	ÿ	¿	╕	╚	╪	Φ	°
9			)	9	I	Y	i	y	ë	Ö	⌐	╣	╔	┘	Θ	·
a			*	:	J	Z	j	z	è	Ü	¬	║	╩	┌	Ω	·
b			+	;	K	Š	k	š	Ï	¢	½	╗	╦	█	δ	√
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f			/	?	O	_	o		Å	ƒ	»	┐	±	■	∩	

Arabic Farsi

hex dez	0 0	1 16	2 32	3 48	4 64	5 80	6 96	7 112	8 128	9 144	a 160	b 176	c 192	d 208	e 224	f 240
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1			!	1	A	Q	a	q			-					
2			"	2	B	R	b	r								
3			#	3	C	S	c	s								
4			$	4	D	T	d	t								
5			%	5	E	U	e	u								
6			&	6	F	V	f	v		«						
7			'	7	G	W	g	w		«						
8			(	8	H	X	h	x		»						
9			)	9	I	Y	i	y								
a			*	:	J	Z	j	z								
b			+	;	K	[	k	{								
c			,	<	L	\	l									
d			-	=	M	]	m	}								
e			.	>	N	^	n	~								■
f			/	?	O	_	o									

78

Arabic Urdo

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	~	ڊ		·	ﭖ	ﺽ	ـ	ﹼ
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2			"	2	B	R	b	ﺭ	´	ﺴ	ﺀ	ﺁ	ﺩ	ﺯ	ﺽ	ﻭ
3			#	3	C	S	c	ﺱ	‗	ﺹ	ﺝ	ﺃ	ﺡ	ﺳ	ﺻ	ﺩ
4			$	4	D	T	d	t	ﷺ	ﺝ	ﻯ	ﺇ	ﻷ	ﺩ	ﻝ	ﻉ
5			%	5	E	U	e	u	'	ﺵ	ﺉ	ﺍ	ﻩ	ﺓ	ﻭ	ﺳ
6			&	6	F	V	f	v	ﹴ	ﺽ	ﺽ	ﺍ	ﺩ	ﺽ	ﺽ	ﺽ
7			'	7	G	W	g	w	˘	«	ﻭ	ﺍ	ﺍ	ﻁ	ﺍ	ﺽ
8			(	8	H	X	h	x	'	»	ﻝ	ﺍ	ﺽ	ﺽ	ﻭ	ﺽ
9			)	9	I	Y	i	y	ﹷ	ﻍ	ﺽ	ﻕ	ﺽ	ﺽ	ﺽ	ﺽ
a			*	:	J	Z	j	z	،	ﻻ	ﺩ	ﺵ	ﺩ	ﺽ	ﺽ	ﺽ
b			+	;	K	[	k	{	ﹻ	ﺵ	ﺽ	ﺍ	ﺽ	¦	ﺽ	ﺽ
c			,	<	L	\	l	¦	ﺽ	ﻙ	،	ﺽ	ﺽ	٢	ﺽ	ﺽ
d			–	=	M	]	m	}	ﺽ	ﻯ	ﺽ	ﺽ	ﺩ	◻	ﺽ	ﻉ
e			.	>	N	^	n	~	ﻁ	ﻯ	ﺽ	ﺽ	ﺩ	ﺩ	ﺝ	∎
f			/	?	O	_	o		ﺩ	،	ﺽ	٤	ﺍ	ﺝ	ﺽ	ﺭ

Greek DEC

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p	Ä	É	á	°	ï		ū	
1			!	1	A	Q	a	q	Ė	æ	í	±	A	Π	α	π
2			"	2	B	R	b	ʏ	Ḣ	Æ	ó	²	B	P	β	ρ
3			#	3	C	S	c	ʂ	Ï	õ	ú	³	Γ	Σ	γ	σ
4			$	4	D	T	d	t	ä	ö	ñ	┤	Δ	T	δ	τ
5			%	5	E	U	e	u	à	ò	¥	╡	E	Y	ε	υ
6			&	6	F	V	f	v	å	û	¦	╢	Z	Φ	ζ	φ
7			'	7	G	W	g	w	ç	ù	§	╖	H	X	η	χ
8			(	8	H	X	h	x	ê	Ö	¿	╕	Θ	Ψ	θ	ψ
9			)	9	I	Y	i	y	ë	Ü	©	╣	I	Ω	ι	ω
a			*	:	J	Z	j	z	è	Ḍ	ª	║	K	ά	κ	ς
b			+	;	K	[	k	{	Ï	¢	«	»	Λ	έ	ä	ú
c			,	<	L	\	l	¦	î	£	½	╝	M	ή	μ	ώ
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Tally Dascom 1225

Greek ELOT 928

hex	0	1	2	3	4	5	6	7	8	9	a	b	c	d	e	f
dez	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
0				0	@	P	`	p				°		Π	Ῡ	π
1			!	1	A	Q	a	q			¯	±	Α	Ρ	α	ρ
2			"	2	B	R	b	r				²	Β		β	σ
3			#	3	C	S	c	s				³	Γ	Σ	γ	ς
4			$	4	D	T	d	t			¤	΄	Δ	Τ	δ	τ
5			%	5	E	U	e	u			¥		Ε	Υ	ε	υ
6			&	6	F	V	f	v			¦	Ά	Ζ	Φ	ζ	φ
7			'	7	G	W	g	w			§		Η	Χ	η	χ
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11 Control Codes Summary

Epson Emulation Command List

Command Sequence	Function
BEL	Beeper
BS	Backspace
HT	Tab horizontally
LF	Line feed
VT	Tab vertically
FF	Form feed
CR	Carriage return
SO	Select double-width printing (one line)
SI	Select condensed mode
DC1	Online
DC2	Cancel condensed mode
DC3	Offline
DC4	Cancel double-wide mode(one line)
CAN	Cancel line
DEL	Delete character
ESC SO	Select double-width printing (one line)
ESC SI	Select condensed mode
ESC SP n	Set intercharacter space
ESC EM n	NA
ESC ! n	Print mode setup
ESC (- n1 n2 m d1 d2	Choose character lineation
ESC $ n1 n2	Select absolute horizontal print position
ESC | n	Set left margin
ESC % n	Select user-defined set
ESC &	Define user-defined set
ESC (^ n m d1 d2…	Print data in character style
ESC (G NUL d	Select graphics mode
ESC * m n1 n2…	Select image mode
ESC . c v h m nL nH d1 d2…	Print raster graphics
ESC + n	Select n/360″line spacing
ESC – n	Underline on/off
ESC / n	Select vertical orientation channel
ESC (C NUL n m	Set page length
ESC (c NUL nt mt nb mb	Page setup
ESC (U NUL n	Set unit
ESC 0	Set 1/8″line spacing
ESC 2	Set 1/6″line spacing
ESC 3 n	Set n/180″line spacing
ESC 4	Set Italic
ESC 5	Cancel Italic
ESC 6	Enable printable characters
ESC 7	Enable upper control characters

ESC :	Copy ROM to RAM
ESC <	Unidirectional mode(1 line)
ESC >	Set MSB to 1
ESC =	Set MSB to 0
ESC #	Cancel MSB control
ESC ? n m	Reassign graphics mode
ESC @	Initialize printer
ESC \ n1 n2	Set relative horizontal print position
ESC A n	Set n/60″line spacing
ESC B…NUL	Set/cancel vertical tabs
ESC C n	Set page length in lines
ESC D…NUL	Set/cancel horizontal tabs
ESC E	Select Bold
ESC F	Cancel Bold
ESC G	Select double-strike mode
ESC H	Cancel double-strike mode
ESC J n	Perform tactic n/180″line feed
ESC K n1 n2 …	Select 8 pins single-density graphics
ESC L n1 n2 …	Select 8 pins double–density graphics
ESC M	Select ELITE（12CPI）
ESC N n	Set bottom margin
ESC O	Cancel bottom margin
ESC P	Select PICA（10CPI）
ESC Q n	Set right margin
ESC R n	International character set
ESC S n	Select superscript/subscript
ESC T	Cancel superscript/subscript
ESC U n	Select unidirectional/bidirectional printing mode
ESC (V NUL n m	Select absolute vertical print position
ESC W n	Turn Double-wide mode on/off
ESC X n1 n2	Select font by pitch and point
ESC Y n1 n2 …	Select 8 pins, high speed ,double –density graphics
ESC Z n1 n2 …	Select 8 pins, high speed fourfold –density graphics
ESC a n	Select justification
ESC b n	Select vertical orientation channel
ESC c n m	Set horizontal intercharacter space
ESC g	Select 15CPI
ESC j n	Perform reverse n/180″line feed
ESC k n	Select typeface
ESC p n	Turn proportional mode on/off
ESC q n	Select character style
ESC r n	Select printing colour
ESC t n	Select character table
ESC (t nL nH d1 d2 d3	Assign character table
ESC (v NUL n m	Set relative vertical print position
ESC w n	Turn double-high mode on/off
ESC x n	Select print quality
ESC(B n1 n2 k m s v1 v2 c	Barcode print

IBM Emulation Command List

Command Sequence	Function
BEL	Beeper
BS	Backspace
HT	Tab horizontally
LF	Line feed
VT	Tab vertically
FF	Form feed
CR	Enter
SO	Select double-wide mode
SI	Select condensed mode
DC1	Online
DC2	Select 10CPI
DC3	Offline
DC4	Cancel double-wide mode(one line)
CAN	Cancel buffer
ESC BEL	Beeper
ESC BS	Backspace
ESC HT	Tab horizontally
ESC CR	Enter
ESC LF	Line feed
ESC SO	Select double-wide mode
ESC SI	Select condensed mode
ESC DC1	Online
ESC DC2	Select 10CPI
ESC DC3	Offline
ESC DC4	Cancel double-wide mode(one line)
ESC CAN	Cancel buffer
ESC FF	Form feed
ESC EM n	Automatically Feed Paper mode
ESC :	Set 12CPI
ESC VT	Tab vertically
ESC 0	Select 1/8″line spacing
ESC 1	Select 7/72″line spacing
ESC 2	Select 1/6″line spacing or activate ESC A n command
ESC 3 n	Select n/216″or 1/180″line spacing
ESC 4	Set top margin
ESC 5 n	Automatic Line Feed
ESC 6	Select character set 2
ESC 7	Select character set 1
ESC =	NA
ESC \	Print continuously from all character chart
ESC ^	Print single character from all character chart
ESC A n	Select n/72″or n/60″line spacing
ESC B n	Select Tab vertically
ESC C n	Set page length in lines

ESC C NUL n	Set page length in inches
ESC D	Select Tab horizontally
ESC E	Select bold
ESC F	Cancel bold
ESC G	Select double-strike mode
ESC H	Cancel double-strike mode
ESC I n	Select printing mode
ESC J n	Perform n/180″or n/216″single line feed
ESC K n1 n2 V1 V2 …Vn	Normal density graphics
ESC L n1 n2 V1 V2 …Vn	Dual-Density Bit Image Graphics (Half Speed)
ESC N n	Select bottom margin
ESC O	Cancel bottom margin
ESC P n	Set proportional intercharacter
ESC Q n	Offline
ESC R	Clear tab
ESC S n	Select superscript/subscript
ESC T	Cancel superscript/subscript
ESC U n	Select bidirectional printing on/off
ESC W n	Select double-wide printing mode(continuous)
ESC X n m	Set left and right margin
ESC Y n1 n2 V1 V2 …Vn	Select double -density graphics
ESC Z n1 n2 V1 V2 …Vn	Select fourfold -density graphics
ESC [- n1 n2 m1 m2	Select line
ESC [@ n1 n2 m1 m2 m3 m4	Select printing mode
ESC [I n1 n2 Hf Ls Hs Lf Sm NUL Hc Lc	Select font and pitch
ESC [K n1 n2 init id para1 para2 …paran	Set initialization condition
ESC [T n1 n2 n3 n4 Hc Lc	Set code page
ESC [\	Set vertical unit
ESC [d	Select printing quality
ESC [f n1 n2 k m s v1 v2c	Set barcode parameters
ESC [g n1 n2 m	Select high-density graphics printing
ESC [p n1 n2	Set barcode data
ESC]	Feed paper in reverse direction
ESC_ n	Print upper-line
ESC- n	Print underline
ESC d n m	Move the current printing position
ESC j	Stop printing
ESC r n	Select printing colour
ESC * m	Select graphic mode

If you need more details regarding the emulation commands, please contact us.

DASCOM REPRESENTATIVES

GERMANY
DASCOM Europe GmbH
Heuweg 3
D-89079 Ulm
Deutschland
Tel.: +49 (0) 731 2075 0
Fax: +49 (0) 731 2075 100
www.dascom.com

UNITED KINGDOM
DASCOM GB Ltd
ViewPoint, Basing View,
Basingstoke, Hampshire
RG21 4RG, England
Phone: +44 (0) 1256 481481
Fax: +44 (0) 1256 481400
www.dascom.com

RUSSIA and CIS
DASCOM Europe GmbH
Representation Moscow
Leninsky Prospekt 95a, Office 322
119313 Moscow, Russian Federation
Phone: +7 (495) 984 70 65
Fax: +7 (495) 984 56 42
www.dascom.com

SINGAPORE (ASIA PACIFIC)
DASCOM AP Pte Ltd
63 Hillview Avenue
#08-22, Lam Soon Industrial Building
Singapore 669569
Phone: +65 6760 8833
Fax: +65 6760 1066
www.dascom.com.sg

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