

Font Guide

Contents

Copyright and Trademarks

Chapter 1 Working with Fonts

Epson BarCode Fonts (Windows Only).....	5
System requirements.....	6
Installing Epson BarCode Fonts.....	6
Printing with Epson BarCode Fonts.....	7
BarCode Font specifications.....	10
Available fonts.....	18
PCL5 mode.....	19
ESC/P 2 and FX modes.....	20
I239X mode.....	21
PS 3 mode.....	22
PCL6 mode.....	23
Printing font samples.....	27
Adding more fonts.....	27
Selecting fonts.....	27
Epson Screen Fonts (Windows Only).....	28
System requirements.....	28
Installing Epson Screen Fonts.....	28

Chapter 2 Symbol Sets

Introduction to symbol sets.....	30
In the PCL5 mode.....	30
In the ESC/P 2 or FX Modes.....	33
International character sets.....	35
Characters available with the ESC (^ command).....	36
In the I239X Emulation Mode.....	36
In the PCL6 Mode.....	36

Index

Copyright and Trademarks

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, mechanical, photocopying, recording, or otherwise, without the prior written permission of Seiko Epson Corporation. No patent liability is assumed with respect to the use of the information contained herein. Neither is any liability assumed for damages resulting from the use of the information contained herein.

Neither Seiko Epson Corporation nor its affiliates shall be liable to the purchaser of this product or third parties for damages, losses, costs, or expenses incurred by purchaser or third parties as a result of: accident, misuse, or abuse of this product or unauthorized modifications, repairs, or alterations to this product, or (excluding the U.S.) failure to strictly comply with Seiko Epson Corporation's operating and maintenance instructions.

Seiko Epson Corporation and its affiliates shall not be liable against any damages or problems arising from the use of any options or any consumable products other than those designated as Original Epson Products or Epson Approved Products by Seiko Epson Corporation.

Features Zoran Corporation Integrated Print System (IPS) for print language emulation.



A part of the ICC Profile contained within this product was created by Gretag Macbeth ProfileMaker. Gretag Macbeth is the registered trademark of Gretag Macbeth Holding AG Logo. ProfileMaker is a trademark of LOGO GmbH.

IBM and PS/2 are registered trademarks of International Business Machines Corporation.

Microsoft®, Windows®, and Windows Vista® are registered trademarks of Microsoft Corporation.

Apple®, Macintosh®, Mac®, Mac OS®, AppleTalk®, and Bonjour® are registered trademarks of Apple, Inc. Apple Chancery, Chicago, Geneva, Hoefler Text, Monaco, New York and True Type are trademarks or registered trademarks of Apple, Inc.

Epson and Epson ESC/P are registered trademarks and Epson AcuLaser and Epson ESC/P 2 are trademarks of Seiko Epson Corporation.

Monotype is a trademark of Monotype Imaging, Inc. registered in the United States Patent and Trademark Office and may be registered in certain jurisdictions.

The UFST® (Universal Font Scaling Technology™) product is Monotype Imaging's scalable font rendering subsystem for printer devices.

MicroType® font compression technology from Monotype Imaging works with the UFST® font rendering subsystem to significantly reduce font file sizes.

Monotype Imaging's MicroType® font format is a MicroType-compressed font format.

CG Omega, CG Times, Garamond Antiqua, Garamond Halbfett, Garamond Kursiv, Garamond Halbfett Kursiv are trademarks of Monotype Imaging, Inc. and may be registered in certain jurisdictions.

Scalable type outlines are licensed from Monotype Imaging, Inc.

Albertus, Arial, Coronet, GillSans, Times New Roman and Joanna are trademarks of The Monotype Corporation registered in the United States Patent and Trademark Office and may be registered in certain jurisdictions.

ITC Avant Garde Gothic, ITC Bookman, ITC Lubalin Graph, ITC Mona Lisa Recut, ITC Symbol, ITC Zapf-Chancery, and ITC ZapfDingbats are trademarks of International Typeface Corporation registered in the United States Patent and Trademark Office and may be registered in certain jurisdictions.

Clarendon, Helvetica, New Century Schoolbook, Optima, Palatino, Stempel Garamond, Times and Univers are registered trademarks of Heidelberger Druckmaschinen AG, which may be registered in certain jurisdictions, exclusively licensed through Linotype Library GmbH, a wholly owned subsidiary of Heidelberger Druckmaschinen AG.

Wingdings is a registered trademark of Microsoft Corporation in the United States and other countries.

Marigold is trademark of Arthur Baker and may be registered in some jurisdictions.

Antique Olive is a registered trademark of Marcel Olive and may be registered in certain jurisdictions.

Carta and Tekton are registered trademarks of Adobe Systems Incorporated.

Marigold and Oxford are trademarks of AlphaOmega Typography.

Coronet is a registered trademark of Ludlow Type Foundry.

Eurostile is a trademark of Nebiolo.

HP and HP LaserJet are registered trademarks of the Hewlett-Packard Company.

PCL is the registered trademark of Hewlett-Packard Company.

Adobe, the Adobe logo and PostScript3 are trademarks of Adobe Systems Incorporated, which may be registered in certain jurisdictions.

General Notice: Other product names used herein are for identification purposes only and may be trademarks of their respective owners. Epson disclaims any and all rights in those marks.

Copyright © 2011 Seiko Epson Corporation. All rights reserved.

Chapter 1

Working with Fonts

Epson BarCode Fonts (Windows Only)

Epson BarCode Fonts let you easily create and print many types of bar codes.

Normally, bar code creation is a laborious process requiring you to specify various command codes, such as Start bar, Stop bar and OCR-B, in addition to the bar code characters themselves. However, Epson BarCode Fonts are designed to add such codes automatically, allowing you to easily print bar codes that conform to a variety of bar code standards.

Epson BarCode Fonts support the following types of bar codes.

Bar code Standard	Epson BarCode	OCR-B	Check Digit	Comments
EAN	EPSON EAN-8	Yes	Yes	Creates EAN (abbreviated version) bar codes.
	EPSON EAN-13	Yes	Yes	Creates EAN (standard version) bar codes.
UPC-A	EPSON UPC-A	Yes	Yes	Creates UPC-A bar codes.
UPC-E	EPSON UPC-E	Yes	Yes	Creates UPC-E bar codes.
Code39	EPSON Code39	No	No	Printing of OCR-B and check digits can be specified with the font name.
	EPSON Code39 CD	No	Yes	
	EPSON Code39 CD Num	Yes	Yes	
	EPSON Code39 Num	Yes	No	
Code128	EPSON Code128	No	Yes	Creates Code128 bar codes.
Interleaved 2 of 5 (ITF)	EPSON ITF	No	No	Printing of OCR-B and check digits can be specified with the font name.
	EPSON ITF CD	No	Yes	
	EPSON ITF CD Num	Yes	Yes	
	EPSON ITF Num	Yes	No	

Bar code Standard	Epson BarCode	OCR-B	Check Digit	Comments
Codabar	EPSON Codabar	No	No	Printing of OCR-B and check digits can be specified with the font name.
	EPSON Codabar CD	No	Yes	
	EPSON Codabar CD Num	Yes	Yes	
	EPSON Codabar Num	Yes	No	
GS1-128(EAN128)	EPSON EAN128	Yes	Yes	Creates GS1-128(EAN128) barcodes.

System requirements

To use Epson BarCode Fonts, your computer system should meet the following requirements:

Computer:	IBM PC series or IBM compatible with an Pentium/Celeron or higher CPU
Operating system*:	Microsoft Windows 7, Vista, XP, Server 2008, or Server 2003
Hard disk:	15 to 30 KB free space, depending on the font.


* Epson BarCode Fonts can only be used with Epson printer drivers.

Installing Epson BarCode Fonts

Follow the steps below to install Epson BarCode Fonts. The procedure described here is for installation in Windows XP; the procedure for other Windows operating systems is nearly the same.

1. Make sure that the printer is off and that Windows is running on your computer.
2. Insert your printer's Software Disc in the CD/DVD drive.

Note:

If the Epson Installation Program screen does not appear automatically, click  **Start**, then click **Computer** (for Windows 7, Vista or Server 2008) or click the **My Computer** icon on the desktop (for Windows XP or Server 2003). Right-click the **CD-ROM** icon, click **OPEN** in the menu that appears, then double-click **EPSetup.exe**.

3. When the Epson Installation Program screen appears, click **Software List**.

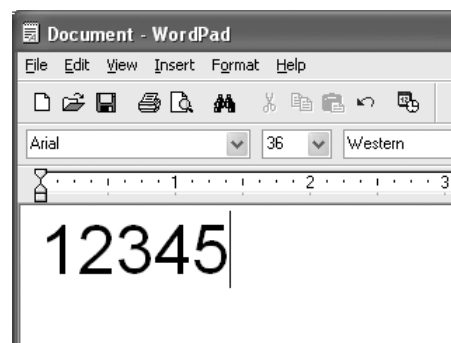
4. Select **Epson BarCode Font** and then click the **Next** button.
5. When the software license agreement screen appears, read the statement and then click **Accept**. Then follow the on-screen instructions.
6. When installation is complete, click **Cancel**.

Epson BarCode Fonts are now installed on your computer.

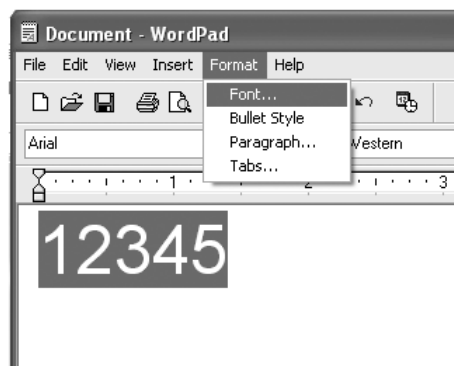
Printing with Epson BarCode Fonts

Follow the steps below to create and print bar codes using Epson BarCode Fonts. The application featured in these instructions is Microsoft WordPad. The actual procedure may differ slightly when printing from other applications.

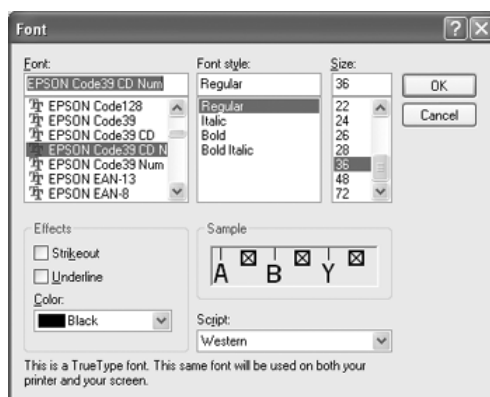
1. Open a document in your application and enter the characters you want to convert into a bar code.



2. Select the characters, then select **Font** from the Format menu.



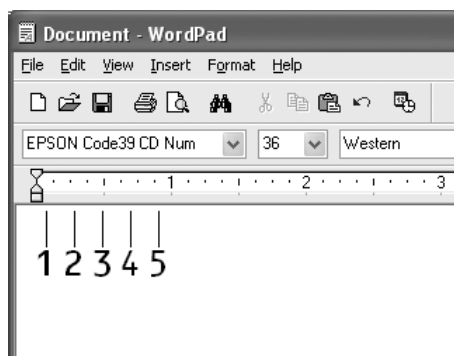
3. Select the Epson BarCode Font you want to use, set the font size, then click **OK**.



Note:

You cannot use font sizes larger than 96 points when printing bar codes.

4. The characters you selected appear as bar code characters similar to those shown below.



5. Select **Print** from the File menu, select your Epson printer, then click **Properties**. Make the following printer driver settings. Your printer is a Black-and-White printer. See the Black-and-White Printer Driver section in the table below.

	Black-and-white Printer Driver	Color Printer Driver	Host Based Black-and-white Printer Driver	Host Based Color Printer Driver
Color	(not available)	Black	(not available)	Black
Print Quality	Text & Image*	Text*	Text & Image*	Text*
Toner Save	Not selected	Not selected	Not selected	Not selected

	Black-and-white Printer Driver	Color Printer Driver	Host Based Black-and-white Printer Driver	Host Based Color Printer Driver
Zoom Options	Not selected	Not selected	Not selected	Not selected
Printing Mode (in the Extended Settings dialog box accessed through the Optional Settings tab)	High Quality (Printer)	High Quality (Printer)	(not available)	(not available)

* When doing settings in the More Settings window that appears by selecting the **Advanced** check box and pressing the **More Settings** button, set the Resolution or Print Quality setting to **Fine**.

6. Click **OK** to print the bar code.

Note:

If there is an error in the bar code character string, such as inappropriate data, the bar code will be printed as it appears on the screen, but it cannot be read by a bar code reader.

Notes on inputting and formatting bar codes

Please note the following when inputting and formatting bar code characters:

- Do not apply shading or special character formatting, such as bold, italic, or underline.
- Print bar codes in black and white only.
- When rotating characters, only specify rotation angles of 90°, 180°, and 270°.
- Turn off all automatic character and word spacing settings in your application.
- Do not use features in your application that enlarge or reduce the size of characters in only the vertical or horizontal direction.
- Turn off your application's auto-correct features for spelling, grammar, spacing, etc.
- To more easily distinguish bar codes from other text in your document, set your application to show text symbols, such as paragraph marks, tabs, etc.
- Because special characters such as Start bar and Stop bar are added when an Epson BarCode Font is selected, the resulting bar code may have more characters than were originally input.
- For best results, use only the font sizes recommended in "BarCode Font specifications" on page 10 for the Epson BarCode Font you are using. Bar codes in other sizes may not be readable with all bar code readers.

Note:

Depending on the print density, or on the quality or color of the paper, bar codes may not be readable with all bar code readers. Print a sample and make sure the bar code can be read before printing large quantities.

BarCode Font specifications

This section contains details on the character input specifications for each Epson BarCode Font.

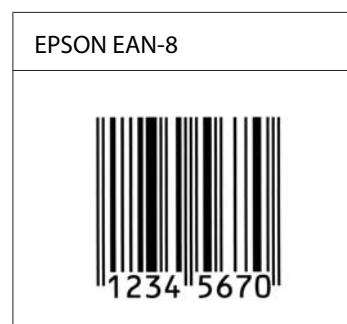
EPSON EAN-8

- EAN-8 is an eight-digit abbreviated version of the EAN bar code standard.
- Because the check digit is added automatically, only 7 characters can be input.

Character type	Numbers (0 to 9)
Number of characters	7 characters
Font size	52 pt to 96 pt. Recommended sizes are 52 pt and 65 pt (standard).

The following codes are inserted automatically and need not be input by hand:

- Left/Right margin
- Left/Right guard bar
- Center bar
- Check digit
- OCR-B

Print sample

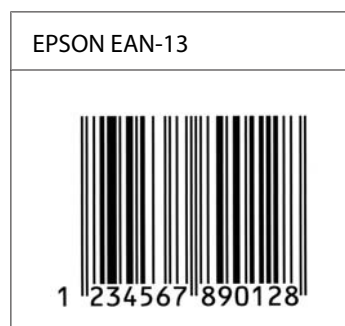
EPSON EAN-13

- EAN-13 is the standard 13-digit EAN bar code.
- Because the check digit is added automatically, only 12 characters can be input.

Character type	Numbers (0 to 9)
Number of characters	12 characters
Font size	60 pt to 96 pt. Recommended sizes are 60 pt and 75 pt (standard).

The following codes are inserted automatically and need not be input by hand:

- Left/Right margin
- Left/Right guard bar
- Center bar
- Check digit
- OCR-B

Print sample**EPSON UPC-A**

- UPC-A is the standard bar code specified by the American Universal Product Code (UPC Symbol Specification Manual).
- Only regular UPC codes are supported. Supplementary codes are not supported.

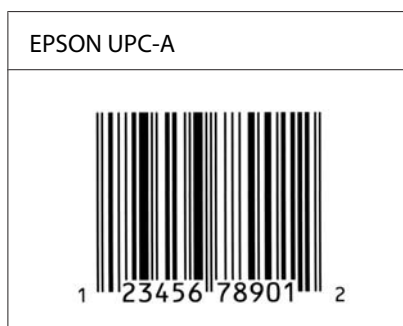
Character type	Numbers (0 to 9)
Number of characters	11 characters

Font size	60 pt to 96 pt. Recommended sizes are 60 pt and 75 pt (standard).
-----------	---

The following codes are inserted automatically and need not be input by hand:

- Left/Right margin
- Left/Right guard bar
- Center bar
- Check digit
- OCR-B

Print sample



EPSON UPC-E

- UPC-E is the UPC-A zero-suppression (deletes extra zeros) bar code specified by the American Universal Product Code (UPC Symbol Specification Manual).

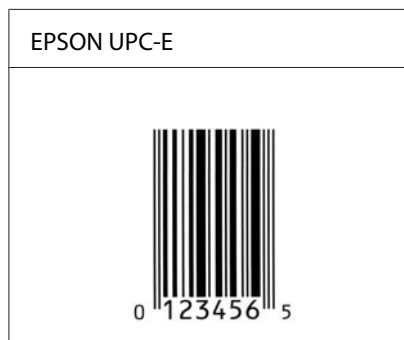
Character type	Numbers (0 to 9)
Number of characters	6 characters
Font size	60 pt to 96 pt. Recommended sizes are 60 pt and 75 pt (standard).

The following codes are inserted automatically and need not be input by hand:

- Left/Right margin
- Left/Right guard bar
- Check digit
- OCR-B

- The numeral “0”

Print sample



EPSON Code39





- Four Code39 fonts are available, allowing you to enable and disable the automatic insertion of check digits and OCR-B.
- The height of the bar code is automatically adjusted to 15% or more of its total length, in conformance to the Code39 standard. For this reason, it is important to keep at least one space between the bar code and the surrounding text to prevent overlapping.
- Spaces in Code39 bar codes should be input as “_” underbars.
- When printing two or more bar codes on one line, separate the bar codes with a tab, or select a font other than a BarCode Font and input the space. If a space is input while a Code39 font is selected, the bar code will not be correct.

Character type	Alphanumeric characters (A to Z, 0 to 9) Symbols (- . space \$ / + %)
Number of characters	No limit
Font size	When OCR-B is not used: 26 pt to 96 pt. Recommended sizes are 26 pt, 52 pt and 78 pt. When OCR-B is used: 36 pt to 96 pt. Recommended sizes are 36 pt and 72 pt.

The following codes are inserted automatically and need not be input by hand:

- Left/Right quiet zone
- Check digit
- Start/Stop character

Print sample

EPSON Code39	EPSON Code39 CD
	
EPSON Code39 Num	EPSON Code39 CD Num
	

EPSON Code128

- Code128 fonts support code sets A, B, and C. When the code set of a line of characters is changed in the middle of the line, a conversion code is automatically inserted.
- The height of the bar code is automatically adjusted to 15% or more of its total length, in conformance to the Code128 standard. For this reason, it is important to keep at least one space between the bar code and the surrounding text to prevent overlapping.
- Some applications automatically delete the spaces at the end of lines or change multiple spaces into tabs. Bar codes containing spaces may not be correctly printed from applications that automatically delete spaces from the ends of lines or change multiple spaces into tabs.
- When printing two or more bar codes on one line, separate the bar codes with a tab, or select a font other than a BarCode Font and input the space. If a space is input while Code128 is selected, the bar code will not be correct.

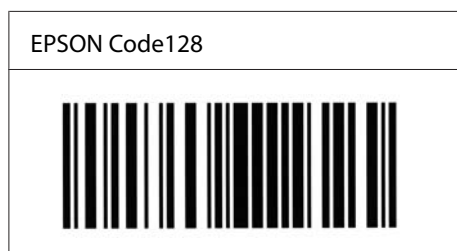
Character type	All ASCII characters (95 in total)
Number of characters	No limit
Font size	26 pt to 96 pt. Recommended sizes are 26 pt, 52 pt and 78 pt.

The following codes are inserted automatically and need not be input by hand:

- Left/Right quiet zone
- Start/Stop character
- Check digit

- Change code set character

Print sample



EPSON ITF

- The EPSON ITF fonts conform to the USS Interleaved 2-of-5 standard (American).
- Four EPSON ITF fonts are available, allowing you to enable and disable the automatic insertion of check digits and OCR-B.
- The height of the bar code is automatically adjusted to 15% or more of its total length, in conformance to the Interleaved 2-of-5 standard. For this reason, it is important to keep at least one space between the bar code and the surrounding text to prevent overlapping.
- Interleaved 2 of 5 treats every two characters as one set. When there are an odd number of characters, EPSON ITF fonts automatically add a zero to the beginning of the character string.

Character type	Numbers (0 to 9)
Number of characters	No limit
Font size	When OCR-B is not used: 26 pt to 96 pt. Recommended sizes are 26 pt, 52 pt and 78 pt. When OCR-B is used: 36 pt to 96 pt. Recommended sizes are 36 pt and 72 pt.

The following codes are inserted automatically and need not be input by hand:

- Left/Right quiet zone
- Start/Stop character
- Check digit
- The numeral “0” (added to the beginning of character strings as needed)

Print sample

EPSON ITF	EPSON ITF CD
	

EPSON ITF Num	EPSON ITF CD Num
 0 1 2 3 4 5 6 7	 1 2 3 4 5 6 7 0

EPSON Codabar

- Four Codabar fonts are available, allowing you to enable and disable the automatic insertion of check digits and OCR-B.
- The height of the bar code is automatically adjusted to 15% or more of its total length, in conformance to the Codabar standard. For this reason, it is important to keep at least one space between the bar code and the surrounding text to prevent overlapping.
- When either a Start or a Stop character is input, Codabar fonts automatically insert the complementary character.
- If neither a Start nor a Stop character is input, these characters are automatically input as the letter "A".





Character type	Numbers (0 to 9) Symbols (- \$: / . +)
Number of characters	No limit
Font size	When OCR-B is not used: 26 pt to 96 pt. Recommended sizes are 26 pt, 52 pt and 78 pt. When OCR-B is used: 36 pt to 96 pt. Recommended sizes are 36 pt and 72 pt.

The following codes are inserted automatically and need not be input by hand:

- Left/Right quiet zone

- Start/Stop character (when not input)
- Check digit

Print sample

EPSON Codabar	EPSON Codabar CD
	
EPSON Codabar Num	EPSON Codabar CD Num
 A 1 2 3 4 5 6 7 A	 A 1 2 3 4 5 6 7 4 A

EPSON EAN128

- GS1-128(EAN128) fonts support code sets A, B, and C. When the code set of a line of characters is changed in the middle of the line, a conversion code is automatically inserted.
- The following 4 kinds of the properties are supported as the Application Identifier (AI).
 - 01: Global traded item number
 - 10: Batch / Lot number
 - 17: Expiry date
 - 30: Quantity
- The height of the bar code is automatically adjusted to 15% or more of its total length, in conformance to the Code128 standard. For this reason, it is important to keep at least one space between the bar code and the surrounding text to prevent overlapping.
- Some applications automatically delete the spaces at the end of lines or change multiple spaces into tabs. Bar codes containing spaces may not be correctly printed from applications that automatically delete spaces from the ends of lines or change multiple spaces into tabs.
- When printing two or more bar codes on one line, separate the bar codes with a tab, or select a font other than a BarCode Font and input the space. If a space is input while GS1-128(EAN128) is selected, the bar code will not be correct.

Character type	Alphanumeric characters (A to Z, 0 to 9) Parenthesis are only for identification of the Application Identifier (AI) Only the capital letters are supported by the small letter key input.
Number of characters	It changes with the Application Identifier (AI). 01: 4 characters "(01)" and 13 numbers 17: 4 characters "(17)" and 6 numbers 10: 4 characters "(10)" and maximum of 20 alphanumeric characters 30: 4 characters "(30)" and maximum of 8 numbers
Font size	36 pt or more Recommended sizes are 36 pt, 72 pt

The following codes are inserted automatically and need not be input by hand:

- Left/Right quiet zone
- Start/Stop character
- FNC1 character

It inserts for discernment from Code128 and for a pause of the variable length application identifier.

- Check digit
- Change code set character

Print sample



Available fonts

The fonts provided with the printer are shown below, according to the emulation mode.

PCL5 mode

Font Name	Family	HP Equivalent
Courier	Medium, Bold, Italic, Bold Italic	Courier
ITC Zapf Dingbats	-	ITC Zapf Dingbats
CG Times	Medium, Bold, Italic, Bold Italic	CG Times
CG Omega	Medium, Bold, Italic, Bold Italic	CG Omega
Coronet	-	Coronet
Clarendon Condensed	-	Clarendon Condensed
Univers	Medium, Bold, Medium Italic, Bold Italic	Univers
Univers Condensed	Medium, Bold, Medium Italic, Bold Italic	Univers Condensed
Antique Olive	Medium, Bold, Italic	Antique Olive
Garamond	Antiqua, Halbfett, Kursiv, Kursiv Halbfett	Garamond
Marigold	-	Marigold
Albertus	Medium, Extra Bold	Albertus
Ryadh	Medium, Bold	Ryadh
Malka	Medium, Bold, Italic	Miryam
Dorit	Medium, Bold	David
Naamit	Medium, Bold	Narkis
Arial	Medium, Bold, Italic, Bold Italic	Arial
Times New	Medium, Bold, Italic, Bold Italic	Times New
Helvetica	Medium, Bold, Oblique, Bold Oblique	Helvetica
Helvetica Narrow	Medium, Bold, Oblique, Bold Oblique	Helvetica Narrow
Palatino	Roman, Bold, Italic, Bold Italic	Palatino
ITC Avant Garde	Book, Demi, Book Oblique, Demi Oblique	ITC Avant Garde Gothic
ITC Bookman	Light, Demi, Light Italic, Demi Italic	ITC Bookman

Font Name	Family	HP Equivalent
New Century Schoolbook	Roman, Bold, Italic, Bold Italic	New Century Schoolbook
Times	Roman, Bold, Italic, Bold Italic	Times
ITC Zapf Chancery Italic	-	ITC Zapf Chancery Medium Italic
Symbol	-	Symbol
SymbolPS	-	SymbolPS
Wingdings	-	Wingdings
Letter Gothic	Medium, Bold, Italic	Letter Gothic
Naskh	Medium, Bold	Naskh
Koufi	Medium, Bold	Koufi
CourierPS	Medium, Bold, Oblique, Bold Oblique	CourierPS
Line Printer	-	Line Printer
OCR A	-	-
OCR B	-	-
Code39	9.37cpi, 4.68cpi	-
EAN/UPC	Medium, Bold	-

Note:

Depending on the print density, or on the quality or color of the paper, OCR A, OCR B, Code39, and EAN/UPC fonts may not be readable. Print a sample and make sure the fonts can be read before printing large quantities.

ESC/P 2 and FX modes

Font Name	Family
Courier	Medium, Bold
EPSON Prestige	-
EPSON Roman	-
EPSON Sans serif	-

Font Name	Family
Arial*	Medium, Bold
Letter Gothic	Medium, Bold
Times New Roman*	Medium, Bold
EPSON Script	-
OCR A	-
OCR B	-

* Available only in ESC/P2 mode.

Note:

Depending on the print density, or on the quality or color of the paper, OCR A and OCR B fonts may not be readable. Print a sample and make sure the fonts can be read before printing large quantities.

I239X mode

Font Name	Family
Courier	Medium, Bold
EPSON Prestige	-
EPSON Gothic	-
EPSON Orator	-
EPSON Script	-
EPSON Presentor	-
EPSON Sans serif	-
OCR B	-

Note:

Depending on the print density, or on the quality or color of the paper, the OCR B font may not be readable. Print a sample and make sure the font can be read before printing large quantities.

PS 3 mode

Font Name
Albertus, Albertus Italic, Albertus Light
AntiqueOlive Roman, AntiqueOlive Italic, AntiqueOlive Bold, AntiqueOlive Compact
Apple Chancery
ITC AvantGarde Gothic Book, ITC AvantGarde Gothic Book Oblique, ITC AvantGarde Gothic Demi, ITC AvantGarde Gothic Demi Oblique
Bodoni, Bodoni Italic, Bodoni Bold, Bodoni Bold Italic, Bodoni Poster, Bodoni Poster Compressed
ITC Bookman Light, ITC Bookman Light Italic, ITC Bookman Demi, ITC Bookman Demi Italic
Carta
Chicago
Clarendon, Clarendon Light, Clarendon Bold
CooperBlack, CooperBlack Italic
Copperplate Gothic 32BC , Copperplate Gothic 33BC
Coronet
Courier, Courier Oblique, Courier Bold, Courier Bold Oblique
GillSans, GillSans Italic, GillSans Bold, GillSans Bold Italic, GillSansCondensed, GillSans Condensed Bold, GillSans Light, GillSans Light Italic, GillSans Extra Bold
Eurostile, Eurostile Bold, Eurostile Extended Two, Eurostile Bold Extended Two
Geneva
Goudy Oldstyle, Goudy Oldstyle Italic, Goudy Bold, Goudy BoldItalic, Goudy ExtraBold
Helvetica, Helvetica Oblique, Helvetica Bold, Helvetica Bold Oblique, Helvetica Condensed, Helvetica Condensed Oblique, Helvetica Condensed Bold, Helvetica Condensed Bold Oblique, Helvetica Narrow, Helvetica Narrow Oblique, Helvetica Narrow Bold, Helvetica Narrow Bold Oblique
Hoefler Text, Hoefler Text Italic, Hoefler Text Black, Hoefler Text Black Italic, Hoefler Text Ornaments
Joanna, Joanna Italic, Joanna Bold, Joanna Bold Italic
LetterGothic, LetterGothic Slanted, LetterGothic Bold, LetterGothic Bold Slanted
ITC Lubalin Graph Book, ITC Lubalin Graph Book Oblique, ITC Lubalin Graph Demi, ITC Lubalin Graph Demi Oblique
Marigold

Font Name
Monaco
ITC Mona Lisa Recut
New Century Schoolbook Roman, New Century Schoolbook Italic, New Century Schoolbook Bold, New Century Schoolbook Bold Italic
New York
Optima, Optima Italic, Optima Bold, Optima Bold Italic
Oxford
Palatino Roman, Palatino Italic, Palatino Bold, Palatino Bold Italic
Stempel Garamond Roman, Stempel Garamond Italic, Stempel Garamond Bold, Stempel Garamond Bold Italic
Symbol
Tekton
Times Roman, Times Italic, Times Bold, Times Bold Italic
Univers, Univers Oblique, Univers Bold, Univers Bold Oblique, Univers Light, Univers Light Oblique
UniversCondensed, UniversCondensed Oblique, UniversCondensed Bold, UniversCondensed Bold Oblique
UniversExtended , UniversExtended Oblique, UniversExtended Bold, UniversExtended Bold Oblique
Wingdings
ITC ZapfChancery Medium Italic
ITC ZapfDingbats
Arial, Arial Italic, Arial Bold, Arial Bold Italic
Times New Roman, Times New Roman Italic, Times New Roman Bold, Times New Roman Bold Italic

PCL6 mode

For symbol set, see “In the PCL6 Mode” on page 36.

Scalable Font

Font Name	Symbol Set
Courier	*1

Font Name	Symbol Set
Courier Bold	*1
Courier Italic	*1
Courier Bold Italic	*1
Letter Gothic	*1
Letter Gothic Bold	*1
Letter Gothic Italic	*1
CourierPS	*1
CourierPS Bold	*1
CourierPS Oblique	*1
CourierPS Bold Oblique	*1
CG Times	*1
CG Times Bold	*1
CG Times Italic	*1
CG Times Bold Italic	*1
CG Omega	*1
CG Omega Bold	*1
CG Omega Italic	*1
CG Omega Bold Italic	*1
Coronet	*1
Clarendon Condensed	*1
Univers Medium	*1
Univers Bold	*1
Univers Medium Italic	*1
Univers Bold Italic	*1
Univers Medium Condensed	*1
Univers Bold Condensed	*1

Font Name	Symbol Set
Univers Medium Condensed Italic	*1
Univers Bold Condensed Italic	*1
Antique Olive	*1
Antique Olive Bold	*1
Antique Olive Italic	*1
Garamond Antiqua	*1
Garamond Halbfett	*1
Garamond Kursiv	*1
Garamond Kursiv Halbfett	*1
Marigold	*1
Albertus Medium	*1
Albertus Extra Bold	*1
Arial	*1
Arial Bold	*1
Arial Italic	*1
Arial Bold Italic	*1
Times New Roman	*1
Times New Roman Bold	*1
Times New Roman Italic	*1
Times New Roman Bold Italic	*1
Helvetica	*1
Helvetica Bold	*1
Helvetica Oblique	*1
Helvetica Bold Oblique	*1
Helvetica Narrow	*1
Helvetica Narrow Bold	*1

Font Name	Symbol Set
Helvetica Narrow Oblique	*1
Helvetica Narrow Bold Oblique	*1
Palatino Roman	*1
Palatino Bold	*1
Palatino Italic	*1
Palatino Bold Italic	*1
ITC Avant Garde Gothic Book	*1
ITC Avant Garde Gothic Demi	*1
ITC Avant Garde Gothic Book Oblique	*1
ITC Avant Garde Demi Oblique	*1
ITC Bookman Light	*1
ITC Bookman Demi	*1
ITC Bookman Light Italic	*1
ITC Bookman Demi Italic	*1
New Century Schoolbook Roman	*1
New Century Schoolbook Bold	*1
New Century Schoolbook Italic	*1
New Century Schoolbook Bold Italic	*1
Times Roman	*1
Times Bold	*1
Times Italic	*1
Times Bold Italic	*1
ITC Zapf Chancery Medium Italic	*1
Symbol	*2
Wingdings	*3
ITC Zapf Dingbats	*4

Font Name	Symbol Set
SymbolPS	*2

Bitmap Font

Font Name	Symbol Set
Line Printer	*5

Printing font samples

If your printer has a control panel, you can print samples of the fonts available in each mode by using the control panel's Information Menu. Follow these steps to print font samples.

1. Make sure that paper is loaded.
2. Make sure the LCD panel displays *Ready* or *Standby*, then press the ► **Right** button.
3. Press the ▼ **Down** button to select the font sample for the appropriate mode.
4. Press the ► **Right** button to print the selected font sample sheet.

Note:

You can print a font sample sheet from a Web browser if your printer supports EpsonNet Config with Web Browser.

Adding more fonts

You can add a wide variety of fonts to your computer. Most font packages include an installer for this purpose.

See your computer documentation for instructions on installing fonts.

Selecting fonts

Whenever possible select fonts in your application. See your software documentation for instructions.

If you are sending unformatted text to the printer directly from DOS or if you are using a simple software package that does not include font selection, you can select fonts using the printer's control panel menus or by using EpsonNet Config with Web Browser when in the PCL, ESC/P 2, FX, or I239X emulation mode.

Epson Screen Fonts (Windows Only)

Note:

If your printer is host based, Epson Screen Fonts are not included in the software CD-ROM because they cannot be used with host based printers.

Epson Screen Fonts provide you with 131 software fonts.

System requirements

To use Epson Screen Fonts, your computer system should meet the following requirements:

Computer:	IBM PC series or IBM compatible with an Pentium/Celeron or higher CPU
Operating system*:	Microsoft Windows 7, Vista, XP, Server 2008, or Server 2003 Internet Explorer 4.0 or higher
Hard disk:	At least 15 MB of free space


* Epson Screen Fonts can only be used with Epson printer drivers.

Installing Epson Screen Fonts

Follow the steps below to install Epson Screen Fonts. The procedure described here is for installation in Windows XP; the procedure for other Windows operating systems is nearly the same.

1. Make sure that the printer is off and that Windows is running on your computer.
2. Insert your printer's Software Disc in the CD/DVD drive.

Note:

*If the Epson Installation Program screen does not appear automatically, click  **Start**, then click **Computer** (for Windows 7, Vista or Server 2008) or click the **My Computer** icon on the desktop (for Windows XP or Server 2003). Right-click the **CD-ROM** icon, click **OPEN** in the menu that appears, then double-click **EPSetup.exe**.*

3. When the Epson Installation Program screen appears, click **Software List**.
4. Select **Epson Screen Fonts** and then click the **Next** button.
5. When the software license agreement screen appears, read the statement and then click **Accept**. Then follow the on-screen instructions.
6. When installation is complete, click **Cancel**.

Epson Screen Fonts are now installed on your computer.

Chapter 2

Symbol Sets

Introduction to symbol sets

Your printer can access a variety of symbol sets. Many of these symbol sets differ only in the international characters specific to each language.

Note:

Since most software handles fonts and symbols automatically, you will probably never need to adjust the printer's settings. However, if you are writing your own printer control programs, or if you are using older software that cannot control fonts, refer to the following sections for symbol set details.

When you are considering which font to use, you should also consider which symbol set to combine with the font. Available symbol sets vary depending on which emulation mode you use and which font you choose.

In the PCL5 mode

The following symbol sets are available in PCL5 emulation mode.

Available typefaces	Symbol set name:	
19 Typefaces Courier CG Times Universe Letter Gothic Line Printer	IBM-US (10U)	Roman-8 (8U)
	ECM94-1 (0N)	8859-2 ISO (2N)
	8859-9 ISO (5N)	8859-10ISO (6N)
	IBM-DN (11U)	PcMultilingual (12U)
	Legal (1U)	8859-15ISO (9N)

Available typefaces	Symbol set name:	
19 Typefaces Courier CG Times Universe Letter Gothic	PcBlt775 (26U)	Pc1004 (9J)
	WiBALT (19L)	DeskTop (7J)
	PsText (10J)	Windows (9U)
	McText (12J)	MsPublishi (6J)
	PiFont (15U)	VeMath (6M)
	VelInternational (13J)	VeUS (14J)
	PcE.Europe (17U)	PcTk437 (9T)
	WiAnsi (19U)	WiE.Europe (9E)
	WiTurkish (5T)	UK (1E)
	Swedis2 (0S)	Italian (0I)
	Spanish (2S)	German (1G)
	Norweg1 (0D)	French2 (1F)
	Roman-9 (4U)	PcEur858 (13U)
19 Typefaces Courier CG Times Universe Letter Gothic Dorit Malka Naamit Naskh Koufi Ryadh	PsMath (5M)	Math-8 (8M)
	ANSI ASCII (0U)	
Courier CG Times Universe Letter Gothic	Pc866Cyr (3R)	Pc866Ukr (14R)
	WinCyr (9R)	Pc8Grk (12G)
	Pc851Grk (10G)	WinGrk (9G)
	ISOGrk (12N)	Greek8 (8G)
Courier CG Times Universe Letter Gothic Line Printer	ISOCyr (10N)	

Available typefaces	Symbol set name:	
Line Printer	Roman Extension (0E)	
Courier Letter Gothic Dorit Naamit Malka	Hebrew7 (0H) Hebrew8 (8H)	ISO 8859/8 Hebrew (7H) PC-862, Hebrew (15H)
Koufi Naasskh Ryadh	Arabic8 (8V) PC-864, Arabic (10V)	HPWARA (9V)
Symbol	Symbol (19M)	
Wingdings	Wingdings (579L)	
ITC Zapf Dingbats	ZapfDingbats (14L)	
OCR A	OCR A (0O)	
OCR B	OCR B (1O)	OCR B Extension (3Q)
Code3-9	Code3-9 (0Y)	
EAN/UPC	EAN/UPC (8Y)	

The 19 typefaces refer to those listed below:

CG Omega
 Coronet
 Clarendon Condensed
 Univers Condensed
 Antique Olive
 Garamond
 Marigold
 Albertus
 Arial
 Times New
 Helvetica
 Helvetica Narrow
 Palatino
 ITC Avant Garde Gothic
 ITC Bookman
 New Century Schoolbook
 Times
 ITC Zapf Chancery Medium Italic
 CourierPS

In the ESC/P 2 or FX Modes

Character Table	Available typefaces			
	OCR B	Courier	EPSON Roman EPSON Sans serif EPSON Prestige EPSON Script	Letter Gothic Arial Times New
PcUSA	available	available	available	available
PcMultilingual	not available	available	available	available
PcPortuguese	not available	available	available	available
PcCanFrench	not available	available	available	available
PcNordic	not available	available	available	available
PcE.Europe	not available	available	not available	available
PcTurk2	not available	available	not available	available
PcIcelandic	not available	available	not available	available

Character Table	Available typefaces			
	OCR B	Courier	EPSON Roman EPSON Sans serif EPSON Prestige EPSON Script	Letter Gothic Arial Times New
BpBRASCI	not available	available	not available	available
BpAbicomp	not available	available	not available	available
Roman-8	not available	available	available	available
PcEur858	available	available	available	available
ISO Latin1	not available	available	not available	available
8859-15ISO	not available	available	available	available
PcSI437*	not available	available	not available	not available
PcTurk1*	not available	available	not available	not available
8859-9 ISO*	not available	available	not available	not available
Mazowia*	not available	available	not available	not available
CodeMJK*	not available	available	not available	not available
PcGk437*	not available	available	not available	not available
PcGk851*	not available	available	not available	not available
PcGk869*	not available	available	not available	not available
8859-7 ISO*	not available	available	not available	not available
PcCy855*	not available	available	not available	not available
PcCy866*	not available	available	not available	not available
Bulgarian*	not available	available	not available	not available
PcUkr866*	not available	available	not available	not available
Hebrew7*	not available	available	not available	not available
Hebrew8*	not available	available	not available	not available
PcHe862*	not available	available	not available	not available
PcAr864*	not available	available	not available	not available

Character Table	Available typefaces			
	OCR B	Courier	EPSON Roman EPSON Sans serif EPSON Prestige EPSON Script	Letter Gothic Arial Times New
PcLit771 *	not available	available	not available	not available
PcLit774 *	not available	available	not available	not available
Estonia *	not available	available	not available	not available
ISO Latin 2 *	not available	available	not available	not available
PcLat866 *	not available	available	not available	not available
PcAr864Ara *	not available	available	not available	not available
PcAr720 *	not available	available	not available	not available

* Available only in ESC/P2 mode.

Times New is a type face compatible with RomanT.

Letter Gothic is a type face compatible with OratorS.

Arial is a type face compatible with SansH.

International character sets

You can select one of the following international character sets using the ESC R command:

Character sets: USA, France, Germany, UK, Japan, Denmark1, Denmark2, Sweden, Italy, Spain1, Spain2, Norway, Latin America, Korea*, Legal*

* Available for ESC/P 2 emulation only

Characters available with the ESC (^ command

To print the characters in the table below, use the ESC (^ command.

CODE	0	1	7
0			▶
1	☺	◀	
2	☹	↕	
3	♥	!!	
4	♦	¶	
5	♣		
6	♠	—	
7	•	±	
8	■	↑	
9	○	↓	
A	◻	→	
B	♂	←	
C	♀	↶	
D	♪	↷	
E	♫	▲	
F	♬	▼	△

In the I239X Emulation Mode

The available symbol sets in the I239X mode are PcUSA, PcMultilingual, PcEur858, PcPortuguese, PcCanFrench, PcNordic. See “In the ESC/P 2 or FX Modes” on page 33.

The available fonts are EPSON Sans Serif, Courier, EPSON Prestige, EPSON Gothic, EPSON Presentor, EPSON Orator, and EPSON Script.

In the PCL6 Mode

Symbol Set Name	Attribute	Font Classification				
		*1	*2	*3	*4	*5
ISO 60: Danish/Norwegian	4	○	-	-	-	-
ISO 15: Italian	9	○	-	-	-	-
ISO 8859/1 Latin 1	14	○	-	-	-	○
ISO 11: Swedish	19	○	-	-	-	-
ISO 6: ASCII	21	○	-	-	-	-

Symbol Set Name	Attribute	Font Classification				
		*1	*2	*3	*4	*5
ISO 4: United Kingdom	37	○	-	-	-	-
ISO 69: French	38	○	-	-	-	-
ISO 29: German	39	○	-	-	-	-
Legal	53	○	-	-	-	○
ISO 8859/2 Latin 2	78	○	-	-	-	○
ISO 17: Spanish	83	○	-	-	-	-
Roman-9	149	○	-	-	-	-
Ps Math	173	○	-	-	-	-
ISO 8859/9 Latin 5	174	○	-	-	-	○
Windows 3.1 Latin 5	180	○	-	-	-	-
Microsoft Publishing	202	○	-	-	-	-
ISO 8859/10 Latin 6	206	○	-	-	-	○
DeskTop	237	○	-	-	-	-
Math-8	269	○	-	-	-	-
Roman-8	277	○	-	-	-	○
Windows 3.1 Latin 2	293	○	-	-	-	-
Pc1004	298	○	-	-	-	-
ISO 8859/15 Latin 9	302	○	-	-	-	-
PC-8 Turkish	308	○	-	-	-	-
Windows 3.0 Latin 1	309	○	-	-	-	-
PS Text	330	○	-	-	-	-
PC-8, Code Page 437	341	○	-	-	-	○
PC-8, D/N, Danish/Norwegian	373	○	-	-	-	○
MC Text	394	○	-	-	-	-

Symbol Set Name	Attribute	Font Classification				
		*1	*2	*3	*4	*5
PC-850, Multilingual	405	○	-	-	-	○
PcEur858	437	○	-	-	-	-
Pi Font	501	○	-	-	-	-
PC852, Latin 2	565	○	-	-	-	-
Unicode 3.0	590	○	-	-	-	-
Windows Baltic	620	○	-	-	-	-
Windows 3.1 Latin/Arabic	629	○	-	-	-	-
PC-755	853	○	-	-	-	-
Wingdings	18540	-	-	○	-	-
Symbol	621	-	○	-	-	-
ZapfDingbats	460	-	-	-	○	-

Index

C	
Characters available with the ESC (^ command.....	36
E	
Epson BarCode Fonts	
about.....	5
how to install.....	6
how to print.....	7
specifications.....	10
system requirements.....	6
Epson Screen Fonts	
about.....	28
how to install.....	28
system requirements.....	28
ESC/P 2 and FX modes.....	20
ESC/P 2 or FX modes.....	33
F	
Fonts	
adding fonts.....	27
Epson BarCode Fonts (about).....	5
Epson BarCode Fonts (how to install).....	6
Epson BarCode Fonts (how to print).....	7
Epson BarCode Fonts (specifications).....	10
Epson BarCode Fonts (system requirements).....	6
Epson Screen Fonts (about).....	28
Epson Screen Fonts (how to install).....	28
Epson Screen Fonts (system requirements).....	28
ESC/P 2 and FX modes.....	20
how to print samples.....	27
I239X mode.....	21
PCL5 mode.....	19
PCL6 mode.....	23
PS 3 mode.....	22
selecting fonts.....	27
I	
I239X emulation mode.....	36
I239X mode.....	21
International character sets.....	35
P	
PCL5 emulation mode.....	30
PCL5 mode.....	19
PCL6 mode.....	23, 36
PS 3 mode.....	22
S	
Symbol sets	
Characters available with the ESC (^ command.....	36
ESC/P 2 or FX modes.....	33
I239X emulation mode.....	36
International character sets.....	35
introduction.....	30
PCL5 emulation mode.....	30
PCL6 mode.....	36