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Intermec



Installation Instructions

Font Card

(for EasyCoder PF2i,
PF4i, PF4ci, PM4i,
PX4i and PX6i)

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Contents

1 Introduction

Introduction	2
Printer Firmware	2
Installation Kit	2
Font Card Types	2

2 Installation

Installation Instructions	4
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3 Using Fonts in a Font Card

Confirming the Content of a Font Card	8
Font Files and Fonts	9
Single- and Double-Byte Fonts	10
Creating Double-Byte Text	10
Demonstration Program	11

Contents

A decorative graphic consisting of two overlapping circles. The larger circle is light gray and the smaller one is a slightly darker shade of gray. They overlap in the lower right quadrant.

1 Introduction

This chapter describes the Font Card for EasyCoder PF2/4i- , PM4i- or PX4/6i-series printers

Introduction

This Installation Instructions booklet describes how to install a Font Card and how to create text using the single- or double-byte fonts it contains. The booklet is common for a series of Font Cards. Each card contains a package of fonts, for example Japanese or Middle East fonts.

Printer Firmware

The printer must be fitted with Intermec Fingerprint v8.00 (or later). EasyCoder PX4i and PX6i require Fingerprint v8.30 (or later).

Installation Kit

Each Font Card kit contains:

- One CompactFlash Font Card
- This Installation Instruction booklet

Font Card Types

There are five different Font Cards which contain the following fonts:

Part No.	Font Name/Language	Bytes	Font file	Character set	No. of Char.
1-020620-10	HonMincho Light <i>Kanji (Japanese)</i>	2	tt4800m.bin	SHIFTJIS.ncd	14,034
1-020621-00	DFKMincho-Md <i>Korean</i>	2	gothkr_u-pfr0.bin	KSC5601.ncd	17,142
1-020622-00	DLC Ming Medium <i>Chinese Traditional (Taiwan)</i>	2	dfft-m5.bin	BIG5.ncd	14,167
1-020623-00	Song <i>Chinese Simplified (PRC)</i>	2	dfst-m3.bin	GB2312.ncd	8,623
1-020560-00	Sharif Light BT <i>Arabic</i>	1	UBIPFR3	Microsoft Arabic	179
	Hadassah BT <i>Hebrew</i>			Microsoft Hebrew	155

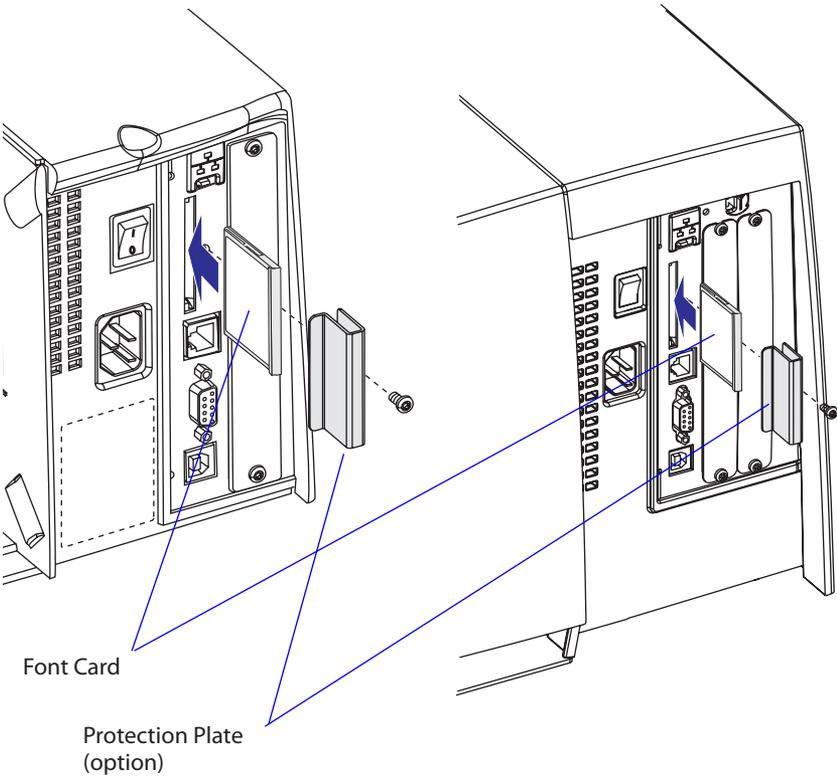
A decorative graphic consisting of two overlapping circles. The larger circle is light gray and the smaller one is a slightly darker shade of gray. They overlap in the lower right quadrant.

2 Installation

This chapter describes how to physically install a Font Card in a PF2/4i-, PM4i-, or PX4/6i-series printer.

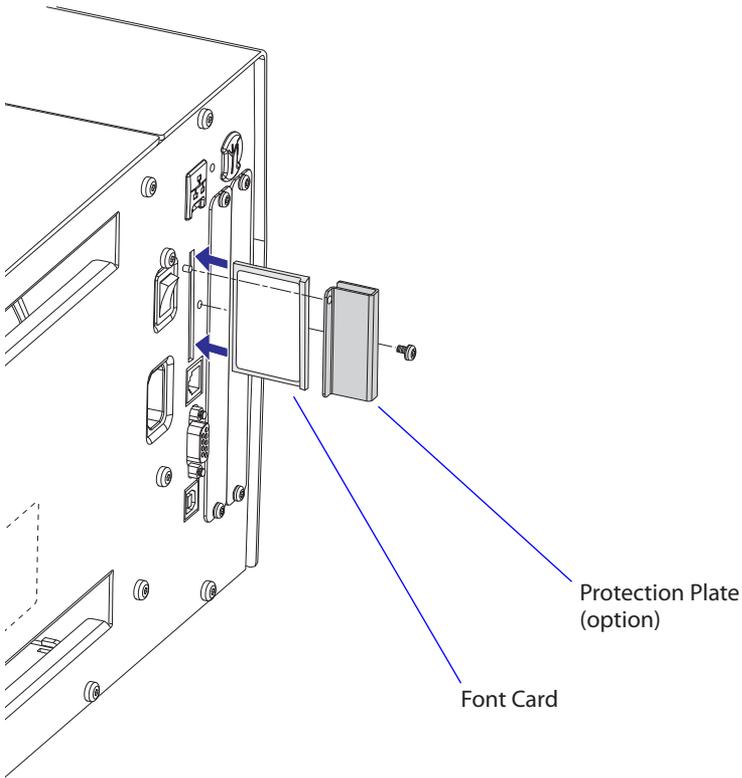
Installation Instructions

- Switch off the printer.
- Carefully insert the Font Card in the memory card slot at the rear of the printer. To protect the card from removal or theft, it can be covered with an optional protection plate.
- Switch on the power.



EasyCoder PF2i, PF4i, and PF4 Compact Industrial

EasyCoder PM4i



EasyCoder PX4i and PX6i

The printer will automatically be able to use the font on the card as soon as the initiation process is completed, The font will only be available as long as the card remains inserted in the memory card slot.



3 Using Fonts in a Font Card

This chapter describes how to use fonts stored in a Font Card with emphasis on double-byte fonts.

Confirming the Content of a Font Card

To confirm the content of the card, select the Fingerprint application in Intermec Shell (see the *User's Guide* for the printer) and issue the following instruction:

```
FILES "card1:"
```

yields for example:

```
Files on card1:
```

97257000.PRG	38547	97257100.PCX	5332
97257420.1	16316	97257430.TXT	292
97257520.1	14888	97257530.TXT	220
97257620.1	34518	97257630.TXT	730
97257720.1	35347	97257730.TXT	685
97257401.UFF	3029960		

The .UFF file is the only file that varies between different font cards. The .UFF file will create two files on the device "rom: "; one .BIN file which contains the actual font and one .NCD file that contains the character set for the font. To see the .BIN and .NCD files, use the following instruction:

```
FILES "rom:"
```

yields for example:

```
Files on rom:
```

CHESS2X2.1	1172	CHESS4X4.1	140
DFST-M3.BIN	3014031	DIAMONDS.1	160
ERRHAND.PRG	3799	FILELIST.PRG	119
GB2312.NCD	15756	GLOBE.1	776
LBLSHTXT.PRG	417	LINE_AXP.PRG	4635
LSHOPXP1.SUB	388	MKAUTO.PRG	124
PUP.BAT	275	SHELLXP.PRG	9710
WINXP.PRG	15209	default.html	338
home.htmf	83	htmlhead.htmf	377
images/	0	monitor	9114
nav.html	999	passwd	85
restrictions	96	secure/	0
support.htmf	782		

0 bytes free 3078585 bytes used

Font Files and Fonts

Fingerprint will identify the .BIN file as a font file and display the name of the font or fonts it contains when the instruction FONTS is given. For example, the font file DFST-M3.BIN will contain the font “Song”. It is the font name you shall use in FONT or FONTD instructions to specify which font you want to use.

Use the FONTS instruction like this:

FONTS

yields for example:

Century Schoolbook BT	DingDings SWA
Dutch 801 Bold BT	Dutch 801 Roman BT
Futura Light BT	Letter Gothic 12 Pitch BT
MS030RMN	MS030RMN.1
MS030RMN.2	MS050RMN
MS050RMN.1	MS050RMN.2
MS060BMN	MS060BMN.1
MS060BMN.2	Monospace 821 BT
Monospace 821 Bold BT	OB035RM1
OB035RM1.1	OB035RM1.2
OCR-A BT	OCR-B 10 Pitch BT
Prestige 12 Pitch Bold BT	SW020BSN
SW020BSN.1	SW020BSN.2
SW030RSN	SW030RSN.1
SW030RSN.2	SW050RSN
SW050RSN.1	SW050RSN.2
SW060BSN	SW060BSN.1
SW060BSN.2	SW080BSN
SW080BSN.1	SW080BSN.2
SW120BSN S	W120BSN.1
SW120BSN.2	<u>Song</u>
Swiss 721 BT	Swiss 721 Bold BT
Swiss 721 Bold Condensed BT	Zurich Extra Condensed BT
3205492 bytes free 1913764 bytes used	

Single- and Double-Byte Fonts

Latin, Cyrillic, Hebrew, and Arabic fonts are single-byte fonts, that is, each letter, number, or punctuation mark (glyph) is specified by a decimal ASCII value between 032 and 256 (000-031 are non-printable control characters). The relation between glyph and ASCII value is decided by a character set.

Most Asian fonts are double-byte fonts, that is, each glyph is specified by a combination of two one-byte ASCII decimal values. This theoretically allows more than 65,000 different glyphs to be used. Each font has its own character set.

Fingerprint has different instruction for single- and double-byte fonts:

- FONT specifies a single-byte font
- NASC specifies a single-byte character set
- FONTD specifies a double-byte font
- NASCD specifies a double-byte character set

Also refer to *Intermec Fingerprint v8.xx, Programmer's Reference Manual*.

Creating Double-Byte Text

The Fingerprint instruction CHR\$ is used to specify ASCII values that cannot be typed on the keyboard of the host. For example, CHR\$(65) specifies the ASCII decimal value 065, which will yield an uppercase A when using a Latin character set. When using double-byte fonts, use the same principle, but specify two ASCII values instead of one. The first character above ASCII 127 decimal will be interpreted as the first byte in a double-byte glyph.

This example that shows how to print three simplified Chinese glyphs. Be careful to specify the double-byte font before the character set.

```
FONTD "Song", 18
NASCD "GB2312.NCD"
A$=CHR$(176)+CHR$(163)+CHR$(176)+CHR$(164)+CHR$(176)+CHR$(65)
PRTEXT A$
PRINTFEED
```

For other examples, LOAD and LIST the demonstration program **972570xx.PRG**. In case of trouble with some Fingerprint versions when switching from double-byte to single-byte fonts and not specifying a single-byte character set, add the instruction **NASCD " "**.

Demonstration Program

Double-byte Font Cards contain a demonstration program that allows you to print the font on the card plus samples of all other double-byte fonts.

- Insert the card and start up the printer.
- When the Shell countdown menus appear, press <Enter>.
- The following menu appears:

```
SHELL
SEL. APPLICATION
```

- Press <Enter> and the display shows:

```
SEL. APPLICATION
CURRENT APPL.
```

- Press the <F3/▶> key repeatedly until this menu is displayed:

```
SEL. APPLICATION
972570xx.PRG
```

- Press <Enter>.
- You have now entered a loop where you can scroll back and forth using the <F1/◀> and <F3/▶> keys respectively to select one of the double-byte fonts. Press <Enter> to print the font. The “For demo print” option prints the font stored on the inserted font card whereas the remaining options print samples of the other double-byte font.

```
For Demo Print
Press Enter
```

```
Korean
Press Enter
```

```
Japanese
Press Enter
```

```
Trad.Chinese
Press Enter
```

```
Simp.Chinese
Press Enter
```




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Font Card Installation Instructions



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