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Intermec



Installation Instructions

Font Card
(for EasyCoder® PF2i,
PF4i, PF4ci, PM4i, PX4i,
PX6i Printers)

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Document Change Record

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001	05/2008	Updated P/N 1-960596-02 to support new part numbers. Converted document from InDesign to FrameMaker.

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Learning About the Font Card Kits

These instructions describe the font cards, explain how to install a font card in your printer, and explain how to create text using the single-byte or double-byte fonts it contains. Each font card contains a package of fonts. For example, one font card contains Japanese fonts.

These instructions are common for a series of font cards. This section describes the font card for the EasyCoder PF2i and PF4i and PF4ci printers, the EasyCoder PM4i printer, and the EasyCoder PX4i and PX6i printers.

- EasyCoder PF2i, PF4i, PF4ci, and PM4i printers must be running Intermec Fingerprint v8.00 (or later).
- EasyCoder PX4i and PX6i printers must be running Intermec Fingerprint v8.30 (or later).

Each font card kit contains:

- CompactFlash font card.
- these installation instructions.

Font Card Kits

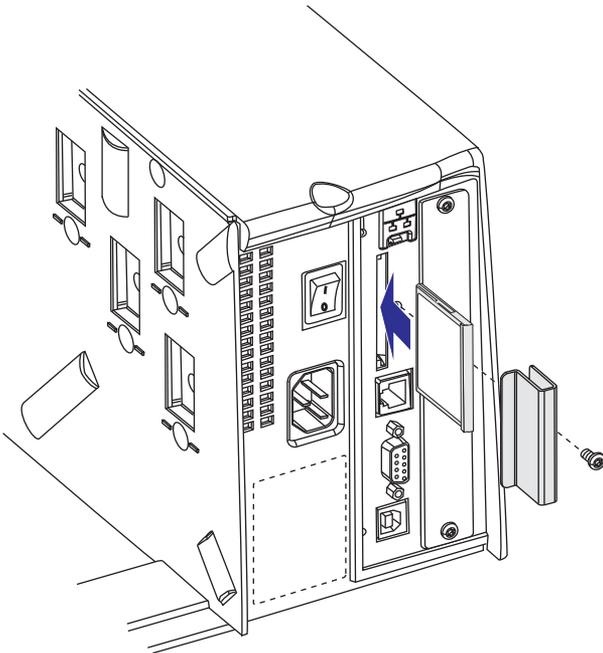
Part Number	Font Name	Bytes	Font File	Character Set	Number of Characters
1-020620-011	HonMincho Light Kanji (Japanese)	2	tt4800m.bin	SHIFTJIS.ncd	14,034
1-020621-001	DFKMincho -MD Korean	2	gothkr_u-prf0.bin	KSC5601.ncd	17,142
1-020622-001	DLCMing Medium Chinese Traditional (Taiwan)	2	dfft-m5.bin	BIG5.ncd	14,167
1-020623-001	Song Chinese Simplified (PRC)	2	dfst-m3.bin	GB2312.ncd	8,623

Font Card Kits (continued)

Part Number	Font Name	Bytes	Font File	Character Set	Number of Characters
1-020624-001	SharifLight BT	1	UBIPFR3	Microsoft Arabic	179
	Ambic			Microsoft Hebrew	155
	Hadssah BT				
	Hebrew				

Installing the Font Card

- 1 Switch off the printer.
- 2 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.



Example: EasyCoder PF2i Printer

- 3 Switch on the printer.

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

Using the Fonts in the Font Card

This section describes how to use the fonts stored in the font card.

Confirming the Contents of a Font Card

To confirm the contents of the card, select the Fingerprint application in Intermec Shell (see the printer user's guide) and issue these instructions:

```
FILES "card1:"
```

yields for example:

Files on card 1:

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 that contains the actual font and one .ncd file that contains the character set for the font. To see the .bin and .ncd files, issue these instructions:

```
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
LBSHTXT.PRG	417	LINE_AXP.PRG	4635
LSHOPXP1.SUB	388	MKAUTO.PRG	124

Files on rom: (continued)

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 sent. For example, the font file dfst-m3.bin contains the Song font. Use the font name when sending the FONT or FONTD instructions to specify which font you want to use.

Use the FONTS instruction like this:

FONTS

yields for example:

Font	Font
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

Font	Font
SW030RSN.2	SW050RSN
SW050RSN.1	SW050RSN.2
SW060BSN	SW060BSN.1
SW060BSN.2	SW080BSN
SW080BSN.1	SW080BSN.2
SW120BSN	SW120BSN.1
SW120BSN.2	Song
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 relationship 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 combination allows more than 65,000 different glyphs to be used. Each font has its own character set.

Fingerprint has different instructions 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 the *Intermec Fingerprint Command Reference Manual* (P/N 937-005-xxx).

Creating Double-Byte Text

The Fingerprint instruction CHR\$ specifies 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.

Double-byte fonts use the same principle, but specify two ASCII values instead of one. The first character above ASCII 127 decimal is interpreted as the first byte in a double-byte glyph.

This example 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$(65)
PRTXT A$
PRINTFEED
```

For other examples, LOAD and LIST the demonstration program 972570xx.prg.

For some Fingerprint versions, you might have trouble when switching from double-byte to single-byte fonts. If the single-byte font is not using a single-byte character set, add the instruction NASCD"".

Demonstration Program

Double-byte font cards contain a demonstration program that lets you print the font on the card plus samples of all other double-byte fonts on the font card.

To use the demonstration program

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

```
SHELL
SEL. APPLICATION
```

3 Press **Enter** and the display shows:

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

4 Press the **F3/right arrow** key repeatedly until this menu appears:

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

5 Press **Enter**. You have now entered a loop where you can scroll back and forth using the **F1/left arrow** and **F3/right arrow** keys respectively to select one of the double-byte fonts.

6 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 fonts.

```
For Demo Print  
Press Enter
```

```
Korean  
Press Enter
```

```
Japanese  
Press Enter
```

```
Trad.Chinese  
Press Enter
```

```
Simp.Chinese  
Press Enter
```




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