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PR2/PR2E/Pr2E Plus Printer Driver Installation

Olivetti PR2/PR2E/Pr2E Plus Printer Driver Installation

for Windows 2000 / Windows XP

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PR2/PR2E/Pr2E Plus Printer Driver Installation

1. INTRODUCTION

This document describes the installation of the Olivetti PR2/PR2E/Plus Printer Driver Printing under Windows 2000 / Windows XP.

1.1. Model Supported

The Driver supports the Olivetti printer models PR2/PR2E/PR2E Plus with , 1/216 Linespacing.

The Printer Driver support the following built-in printer fonts at various characters per inch.

Draft (5 cpi)	corresponds to 5 characters per inch.
Draft (10 cpi)	corresponds to 10 characters per inch.
Draft (12 cpi)	corresponds to 12 characters per inch.
Draft (15 cpi)	corresponds to 15 characters per inch.
Draft (16.6 cpi)	corresponds to 16.6 characters per inch.
Draft (17.1 cpi)	corresponds to 17.1 characters per inch.
Proportional	corresponds to proportional in the PR2.
OCR-A	correspond to OCR – A font
OCR-B	correspond to OCR – B font

In addition, each character per inch can operate at double height or double width or both.

Draft (10 cpi)	10 point,	corresponds to 10 characters per inch.
Draft (10 cpi) Width	10 point,	double width Draft 10 cpi
Draft (10 cpi) High	20 point,	double height Draft 10 cpi
Draft (10 cpi) Width&High	20 point,	double width and double height Draft 10 cpi

Obviously, the complete list of fonts would be quite extensive.

The easiest way to determine what printer fonts are supported by the printer model is to install the printer and use Microsoft's WORDPAD.EXE accessory program (which is part of the default installation of Windows 2000 / XP). By selecting fonts combobox, you can obtain a list of all the fonts supported by the printer (make sure you have first selected the Olivetti PR2/PR2E/Plus printer). The list will contain both True Type fonts and printer fonts. The built-in printer fonts are denoted by a printer icon.

NEW: The PR2E/Plus supports LogoType printing. There is a hide Printer Font named "PR2e LogoType" that must be used to print Logo Type. To obtain the Logo printed, the ID of three characters (which correspond to the ID of the LogoType stored) must be typed in the document with the "PR2e LogoType" font selected. The font can only be selected by typing the Font name "PR2e LogoType" in the *Font List Box*.

The Olivetti PR2/PR2E/Plus support graphics (which also implies support for True-Type fonts) and the full Windows character set. The resolutions supported are 60x180, 120x180, 180x180 and 360x180 dpi.

The Windows character set supports international characters, which means that several countries can be supported with a single printer set-up.

The printer driver supports positioning vertically at 1/216" and horizontally at 1/120" and it manages also two kind of paper source: Automatic feed and Manual Feed (for the Manual source the user must press the printer button "Station 1" when the light is lit).

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1.2. Paper size.

A number of sets of paper-size can be selected. For a “User defined size” document a new form must be created by setting Print Server Properties:

- 1 Open the Printers folder.
- 2 On the File menu, click Server Properties.
- 3 Click the FORM tab to see all of the options, and make your new Form.

To set the new Form as a default document for the printer:

- 1 Open the Printers folder.
- 2 Click the Olivetti PR2/PR2E/Plus printer.
- 3 On the File menu, click “Printer Preferences..”.
- 4 In the “Layout” tab Click the “Advanced...” button to see all of the options, and set the Paper size with the new Form.

Notes:

Changing the printer properties in the Printers folder will change the default settings for all documents you print on this printer. To change these settings for one document, click Page Setup or Print Setup on the File menu in your program.

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2. Components of the Printer Driver.

Olivetti PR2/PR2E/Plus printer driver package consists of the following components:

PR2.dll	Printer MiniDriver - Converts GDI calls into printer output.
PR2.gpd	Printer MiniDriver description table.
PR2UNI.dll	Printer Driver Filter - Filter GDI calls.
PR2LMON.dll	The Olivetti PR2 Language Monitor.
PR2.inf, PR2UNI.ini	Installation files.

2.1. Printer Driver Components

All the printer drivers contain UNIDRV.DLL, UNIDRVUI.DLL, UNIDRV.RES and UNIDRV.HLP, which together comprise the Microsoft universal driver for Win 2000 / XP. PR2.dll and PR2.gpd are a resource files that describe the capabilities, commands, and resident fonts of the printer. The Microsoft universal driver converts the resource tables supplied by Olivetti into printer output. PR2UNI.dll is responsible to filter all the GDI call before the UNIDRV processing.

2.2. Olivetti Language Monitor

The language monitor allows the spooler to configure and monitor the status of a bi-directional printer.

Using the language monitor, the spooler can request configuration and status information from the printer, and/or the printer can send unsolicited status information to the spooler whenever certain events occur on the printer, such as jams, local state, carter open.

The language monitor is associated with the printer driver during the driver's installation; all print data that flows from the printer driver to the printer goes through the language monitor before being passed to the port monitor.

Note that the language monitor never communicates directly with a printer port; it relies on the port monitor to send and receive printer data for it.

2.3. Information File

The PR2.inf file is a formatted reference file that contains information about installation of the Olivetti PR2/PR2E/Plus printer driver and the Olivetti Language Monitor. The PR2.inf file enables the printer driver to be installed and to work in the Windows 2000 / Windows XP environment.

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3. Configuring the printer

3.1. Printer Setup

To configure the printer, turn off the printer, hold down station 1 and station 2 and power on the printer. Insert Paper and follow the directions printed. To examine the current configuration, power on the printer with station 2 pressed and insert paper.

The PR2 Printer Models **REQUIRE** the following printer options:

Configuration Mode

EMULATION:	OLIVETTI
BIT/CHAR	8
PAPER EDGE DETECTION	N

Olivetti Menu

EMULATION	PR2
VERTICAL RESOLUTION	1/216
LF+CR	NO
LINE LENGTH	94
RESET WITH EJECT	Y

The PR2E Printer Models **REQUIRE** the following printer options:

Configuration Mode

EMULATION:	OLIVETTI
BIT/CHAR	8
PAPER EDGE DETECTION	N

Olivetti Menu

EMULATION	PR2E
VERTICAL RESOLUTION	1/216
LF+CR	NO
LINE LENGTH	94

The PR2E Printer Models **REQUIRE** the following printer options:

Configuration Mode

EMULATION:	OLIVETTI
BIT/CHAR	8
PAPER EDGE DETECTION	N

Olivetti Menu

EMULATION	PR2E or PR2EPLUS
VERTICAL RESOLUTION	1/216
LF+CR	NO

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LINE LENGTH 94

The Printer Driver performs all positioning at 1/216" and requires 8 data bits for graphics data. Only Olivetti PR2/PR2E/Plus emulation is supported.

If the serial port is used the **Baud rate**, **Bit/char**, **Parity** and the **Stop bit** must match the settings configured in the section **Ports** in Control panel which must have also the **Flow Control** set with "Xon/Xoff"

If parallel port is used the printer may be configured as:

- ECP
- BIDIRECTIONAL
- CX

In order to work with the first 2 options need to enable the bidirectional support from the TOOLBOX clicking on the "DevicePort" icon and selecting "Enable bidirectional support". If the printer is in CX the bidirectional support must be disabled.

In WIN 2000 / XP platform, a new feature was added: the status of the print job is checked only at the end of the printed page. To enable the check status every graphics block sent by the spooler, you must insert in the registry, under the path

HKEY_LOCAL_MACHINE\SOFTWARE\Olivetti\Box_Moving\Prt

the DWORD variable "*CheckStatus*", with the value 1.

Other entries could be added under that section:

- 1) To enable the debugging facilities, under that path you must create a "*debug*" keyword, of type DWORD, with the value 1. The driver will create in the "%WIN2000%\system32" / "%WINXP%\system32" directory a real-time trace, named *pr2lmon.dbg*, containing all the commands issued to the printers. If the entry "*debug*" is not present or it has a value of 0, no debug information will be obtained.
- 2) To choose a different language for the error messages, under that path you must create a "*Language*" keyword, of type DWORD, with the value 1 for Italian messages. If the entry is not present or it has a value of 0, the English version is used.
- 3) To obtain an Event Log for the print job errors, under that path you must create a "*EventLog*" keyword, of type DWORD, with the value 1.

3.2. Configure Microsoft Word on the Windows XP.

Under Windows XP you must configure Microsoft Word with the following settings :

Change the Compatibility options, on the Tools menu, click Options, and then click the Compatibility tab and check the "Use printer metrics to lay out document".

This configuration allows to use the printer font correctly.

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4. INSTALLING the printer driver

The printer driver is automatically installed by the installation ToolKit

5. TROUBLESHOOTING

5.1. With Microsoft Word the document is not printed with the selected printer font.

In order to solve the problem , change the Compatibility options, on the Tools menu, click Options, and then click the Compatibility tab and check the “Use printer metrics to lay out document”.

Use printer metrics to lay out document: If this option is selected, Word uses the information from the printer driver that is installed. If this option is turned off (default), Word use built-in metrics to lay out the document. This means your document looks the same, no matter what printer driver is installed.