

EPSON Advanced Printer Driver Ver. 3

Installation Manual

Revision C

Seiko Epson Corporation

Notes

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1. Introduction

This manual describes how to install the EPSON Advanced Printer Driver (Windows printer driver, StatusAPI for EPSON TM/BA/EU printers) Ver.3.01 or later. See the reference manuals below for details of the printer drivers, StatusAPI, supported printers, and other information.

EPSON Advanced Printer Driver User's Manual

StatusAPI Reference Manual

2. Features

The EPSON Advanced Printer Driver Ver. 3.xx has the following features.

Silent installation:	You can install the settings of the PC (properties, printer ports, etc.) in which this driver has been already installed in another PC without using the GUI. (See 9.Silent Installation.)
Provision of Status API:	Provides an API (Application programming interface) for monitoring printer status. See the StatusAPI manual for details.
Provision of port driver:	Provides printer port drivers for serial, parallel, USB, and Ethernet. (See 3.EPSON Port for details.)

3. Operating Environment

3.1. Operating System

This driver operation has been verified using the following operating systems.

- Microsoft Windows NT 4.0 Workstation SP6a
- Microsoft Windows 2000 Professional SP4
- Microsoft Windows XP Professional SP2

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- Microsoft Windows XP Embedded

When using the driver with Microsoft Windows XP Embedded, the following components are required.

System Restore Core

Error Reporting

Local Printing Support

Communications Port (If the PC has no serial or parallel port, one of them must be installed manually.)

CRTDLL.DLL (Must be copied manually from the component repository of Windows XP Embedded.)

Network Setup Wizard

Windows Media Player 8.0

Supplemental Winhelp Files

After installing the above components, check the component's dependencies, using the constitutive utility for Windows XP Embedded (Target Designer). The sub-components required for these components are added.

This driver is not supported by Windows 95/98.

3.2. Computer

This software supports computers on which the above operating systems run.

- AT Compatible Computers

4. Coexistence with Old version

It is possible to install EPSON Advanced Printer Driver Version 3.01 or later into a PC for which EPSON Advanced Printer Driver Version 2.09 or later is already installed and use both versions. However, be sure to take the following notes into account.

When installing Version 2.09 or later and Version 3.01 or later into one PC, be sure to install Version 2.xx first. If Version 3.01 or later is already installed, Version 2.xx cannot be installed. In this case, the installation of Version

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2.xx will end without any messages appearing.

When uninstalling, uninstall Version 3.01 or later first.

Version 2.xx and Version 3.01 of the TM-T88III Receipt cannot be installed on the same PC at the same time. In this case, use only Version 3.01.

Version 2.08 or earlier and Version 3.01 or later cannot be installed on one PC at the same time. If you need to use both versions, follow the steps below to update the driver Version 2.08 or earlier to Version 2.10c and then install Version 3.01 or later.

Uninstall EPSON Advanced Printer Driver Version 2.08 or earlier and reboot the PC.

Install EPSON Advanced Printer Driver Version 2.10c and reboot the PC.

Install EPSON Advanced Printer Driver Version 3.01 or later and reboot the PC.

Specify which version, V2.09 or later or V3.01 to be used with the printer. If a selection is not correct, uninstall the driver and execute the installation again.

When using a USB, be sure not to turn the printer on until the installation of all the drivers that will be used at the same time is completed.

EPSON Advanced Printer Driver for BA/EU cannot be used with old versions (Ver1.08a or earlier.)

EPSON Advanced Printer Driver for BA/EU latest version: Version 1.08a uses the same module that the EPSON Advanced Printer Driver Version 2.08 for TM uses.

5. EPSON Port

The EPSON Advanced Printer Driver uses the exclusive EPSON Printer Port. This section describes the EPSON Port before the installation.

The driver creates Printer Ports ESDPRTxxx (xxx:001-999) that do not vary depending on the physical interface and to which a concrete physical port is assigned. On installation, the created printer ports are allocated automatically to the available printer port names.

For example, an RS-232C can be specified to port ESDPRT001, a parallel to ESDPRT002, an Ethernet to ESDPRT003, the TM-H6000II with a USB to ESDPRT004, and a TM-T88III with a USB to ESDPRT004. It is possible to print by specifying the ESDPRTxxx port to be used from the Printer Driver.

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Port name	Physical port	Printer Driver name
ESDPRT00 1	RS232-C	EPSON TM-P60 Receipt
ESDPRT00 2	TCPIP:192.168.192. 2	EPSON TM-P60 Receipt(1)
ESDPRT00 3	TCPIP:192.168.192. 3	EPSON TM-P60 Receipt(2)
ESDPRT00 4	Parallel	EPSON TM-H6000II Receipt

The ESDPRTxxx can be created, deleted, and its settings can be changed from the Property-Port tab of the Printer Driver.

See 7.Adding Ports and 8.Changing Ports for details.

- Create ESDPRTxxx: When the Printer Driver is installed, “Port Creation” of the Property-Port tab
- Change settings of ESDPRTxxx: “Port Configuration” of the Property-Port tab
- Delete ESDPRTxxx: “Port Deletion” of the Property-Port tab

Note on selecting the interface

- You can use the following interfaces to connect the printer.

Parallel interface

Serial interface

USB interface (supported by Windows 2000 and Windows XP only)

Ethernet interface

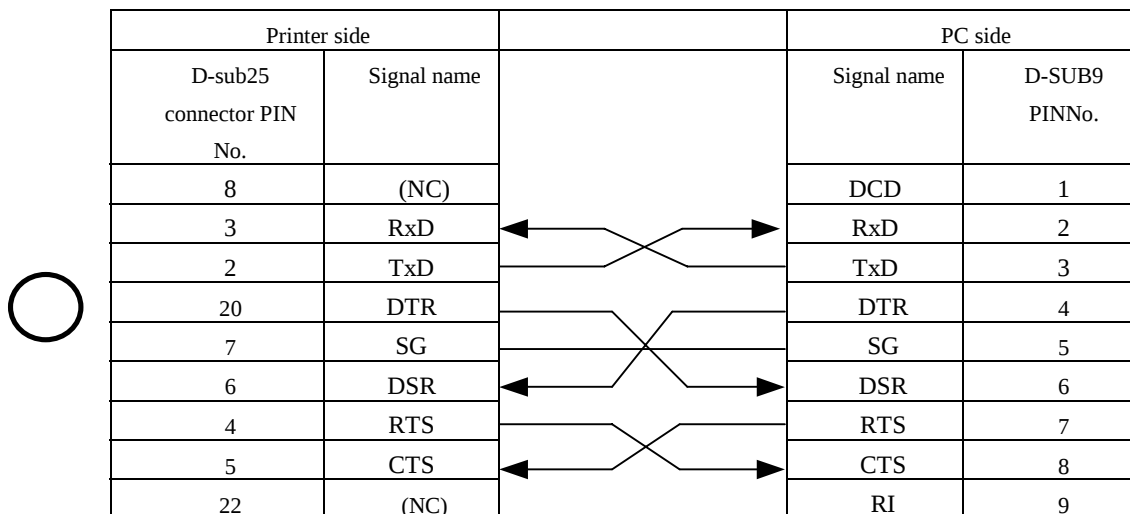
- For high-speed printing, the serial interface is not recommended.

- To print at even higher speed with the parallel interface, set the parallel port to the ECP mode in the BIOS settings of your computer. However, with some computers, setting the parallel operation mode to ECP may result in incorrect printing. In such cases, reset the ECP mode.

- When using serial interface for connection, stop bit [1.5] of the printer port settings cannot be used. Data bits other than 8 cannot be used, either.

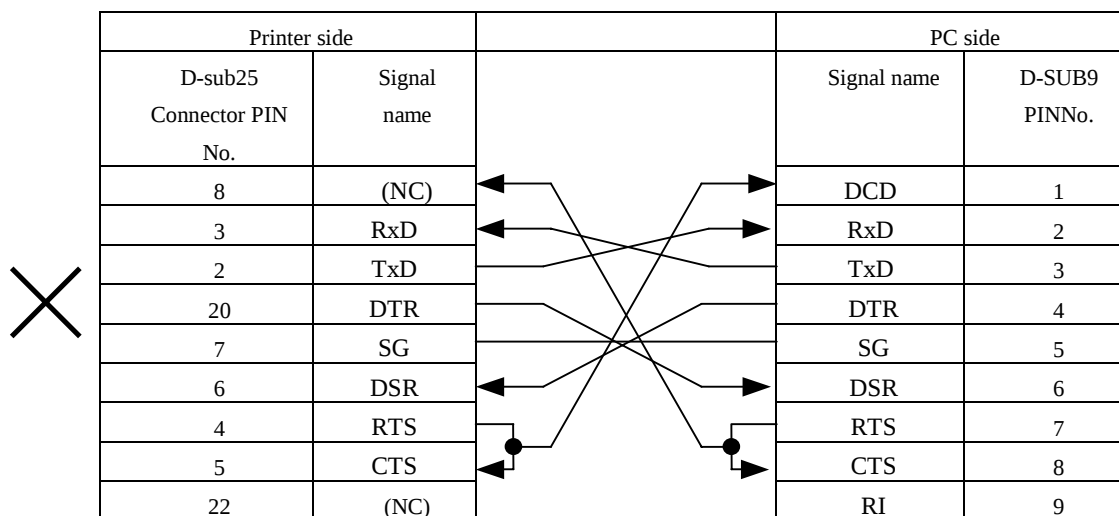
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- When using serial interface for connection, use cables with the following connection.<Usable cable connection >



Commercially available cables with the following connection cannot be used for this driver.

<Unusable cable connection>



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6. Installation

There are two installers provided depending on the supported printers. Instructions for TM-H6000II series are described below. Procedures are the same for other products.

6.1. Installation when RS-232C, Ethernet is used

Execute installation following the instructions in “5.3 Installing the complete installer.”

Select necessary printer driver from [Select Module] displayed during the installation and a port to be used from [Port Setting] for the printer driver.

When using Ethernet, select [TCPIP Driver]. When using RS-232C, select [Serial Driver].

6.2. Installation when USB is used

When using a USB interface board with Windows 2000 or Windows XP, install a USB device driver following the instructions below. When using a USB interface, do not turn on the printer power until the installation of all the drivers used at the same is complete. see the following document.

C:\EPSON Advanced Printer Driver\Setup_**\Usb\readme_e.txt

Before connecting a TM printer to a PC, execute an installer such as ATM_301E.EXE to do necessary installation following the instructions in “5.3 Installing.”

Select [USB Driver] and printer driver from [Select Module] displayed during the installation. and a port to be used from [Port Setting] for the printer driver. After the installation, reboot the OS.

After connecting the TM printer to the PC and turning on the power, connect the printer driver to a USB port following the instructions in “6.2 Port setting.”

6.3. Installing

When the installer is executed, the following window is displayed. If you accept the SOFTWARE LICENSE AGREEMENT, click [I do accept the terms in the license agreement (A)]; then the [Next] button is enabled. Click the [Next] button to go forward.

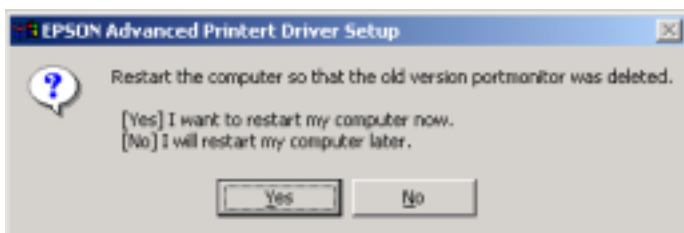
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Select a folder to which the file necessary for installation is to be copied and click [Next].

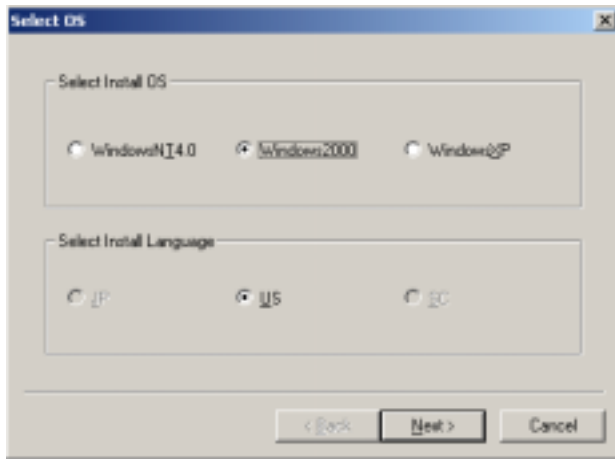


For Windows 2000/XP, the PC will display the following window, if an old version of the EPSON Advanced Printer Driver has been installed before. After rebooting the PC, the installation will continue.

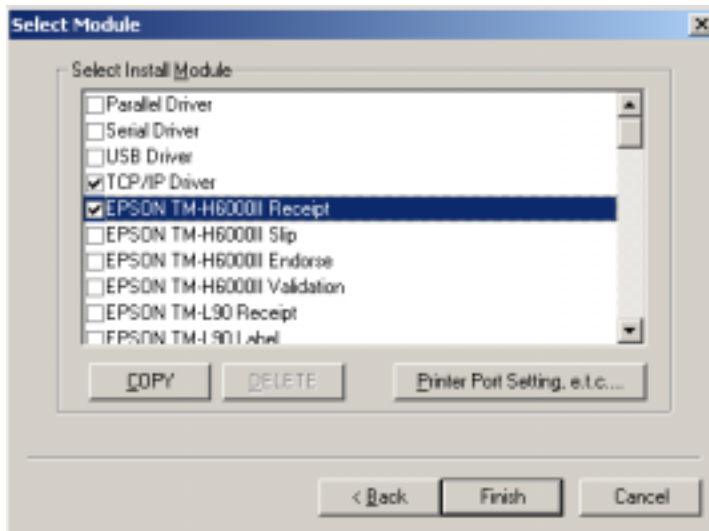


After all the necessary files are copied, the following window appears. The OS type of the PC executing the installer is shown. Check the OS type and language; then click the [Next] button. Do not change the OS type or language here.

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Select the modules that need to be installed.



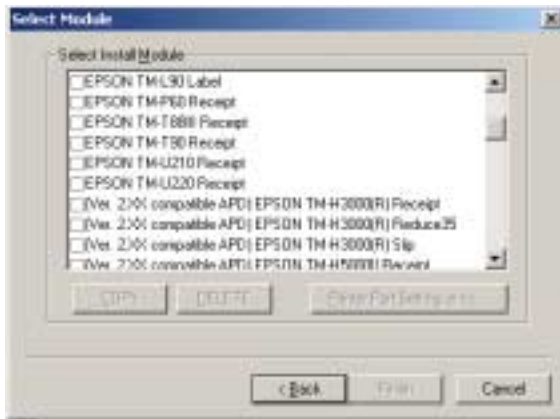
Note the following points:

Select more than one printer driver.

When using a USB interface, select a USB Driver. When using a Ethernet interface, select a TCPIP Driver. After the installation and restarting the computer, connect the printer driver to a USB port following the instructions in “6.2 Port setting.”

- The module displayed as “Ver.2.xxx compatible APD” at the beginning of the printer name is a driver compatible with the driver that was provided as Ver.2.xxx. This module is provided only with the printers supported by Ver.2.xxx. When using this module, note the following points.

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Even if you install a driver indicated as “Ver.2.xxx compatible APD,” “Ver.2.xxx compatible APD” will be omitted from the actual printer name when the driver is installed.

In some aspects, the print results with Ver.2.xxx compatible drivers are not exactly the same as those with the Ver.2.xxx driver because a defect in the Ver.2.xxx driver has been rectified, and some other changes have been made. See the printer driver reference manual for the difference in print results.

For some printers only drivers indicated as “Ver.2.xxx compatible APD” are available.

When installing more than one copy of the same printer driver, select the necessary printer driver and click [Copy] (C). The following screen appears and you can specify the number of copies.

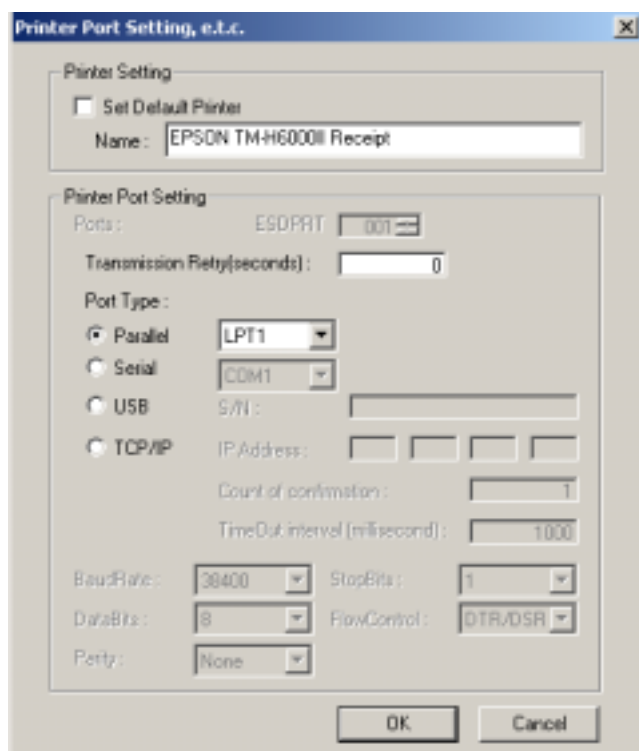


Specified printer driver names with (n) are added to the list. Perform settings using [Port Setting, other (P)].

When installing the printer driver, click [Port Setting] and do the following setting for each printer driver.

Settings: Change in printer name, port setting

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If [Set Default Printer] is enabled, it is set to the printer normally used.

When changing a printer name, input the changed printer name. The symbols !, \, =, ; cannot be used for the printer name.

Select the port to be used.

When installing the Printer Driver, be sure to set the Port, following the procedures below.

Select an interface to be used for the selected port name. The interfaces that can be used are serial, parallel, USB, and TCP/IP.

Select necessary settings for interfaces.

Serial: transmission speed, data bit, stop bit, parity, and flow control

Parallel: No items to be set

USB: No items to be set. If the port needs to be set for certain devices, input the serial number of the USB.

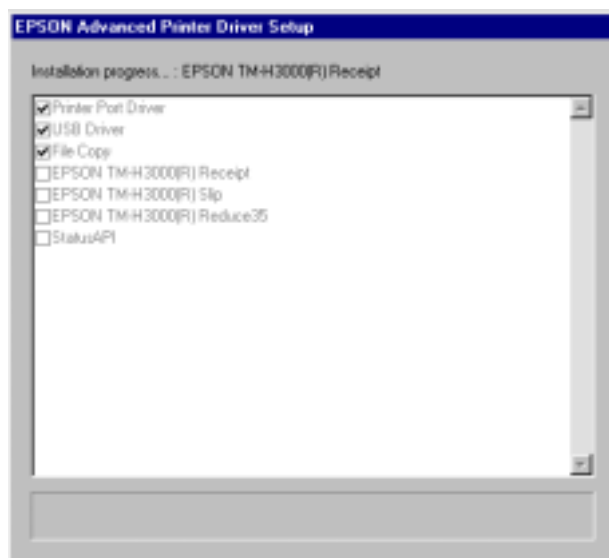
TCP/IP: Printer IP address. The following IP address is not available.:

255.255.255.255/0.0.0.0

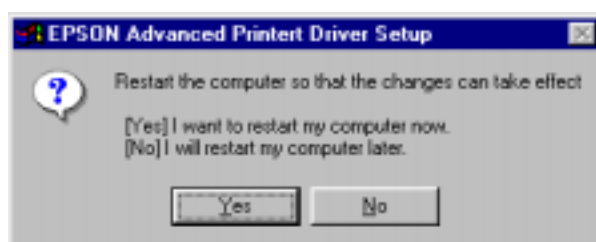
Notes on Port Settings

If you click [Finish] in the [Select Module] window, the installation starts by showing the following window.

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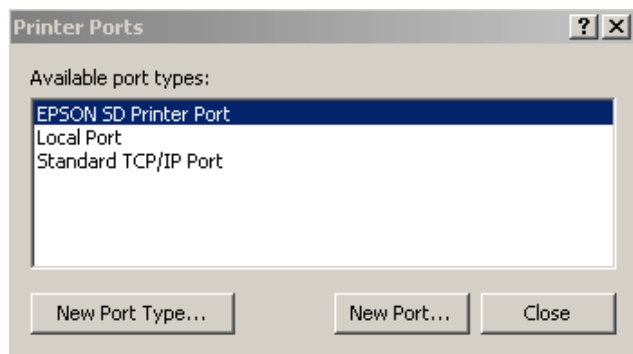
When the installation is completed, the following window appears. If you click [Yes], the computer is restarted. It is necessary to restart the computer to make all the changes take effect.



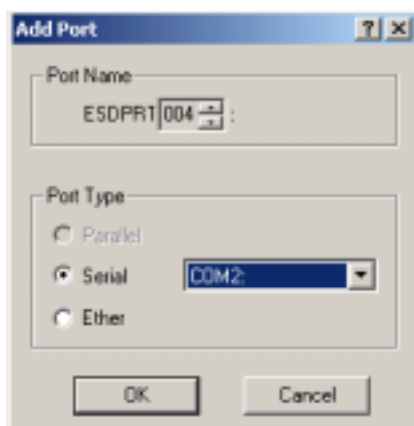
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7. Adding Ports

Click [Add Port] in the Port Tag of the Printer Driver Property. The following panel appears (a Windows 2000 sample)



Select the EPSON SD Printer Port and click the New Port (P) button. The following screen appears.



Add Port Screen COM

Port name

The port name to be made will be “ESDPRTxxx”. Specify xxx with integral numbers between 001 to 999.

Parallel radio button

If this radio button is selected, parallel ports that can be used will appear in a drop-down combo box. Ports that are previously used will not appear in the list. Select a port to be used and click “OK.”

Serial radio button

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If this radio button is selected, serial ports that can be used will appear in a drop-down combo box. Ports that are previously used will not appear in the list. Select a port to be used and click “OK.” For other settings such as a transmission speed select from the Configure Port.

Ether radio button

If this radio button is selected, an IP address can be input. (see “Add Port (Ether)”.)

The following IP address is not available. 255.255.255.255/0.0.0.0



Add Port Screen Ethernet

Press the tab key to move to the next input field and input an IP address.

OK button

Click this button to complete adding port. However, if the port name that has been specified is previously used, an error message appears and adding the port cannot be completed.

With USB the port is automatically specified to ESDPRTxxx by plug and play; therefore, the port cannot be added here.

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8. Changing Ports

Once the port installed, change the port from [Port Configuration] of the Port tab of the Printer Driver Property. Only the serial and Ethernet that need to be changed are described below.

8.1. When connecting a serial port

The screen shows ESDPRTxxx connected to COMx. Follow the onscreen instruction to make any necessary changes.

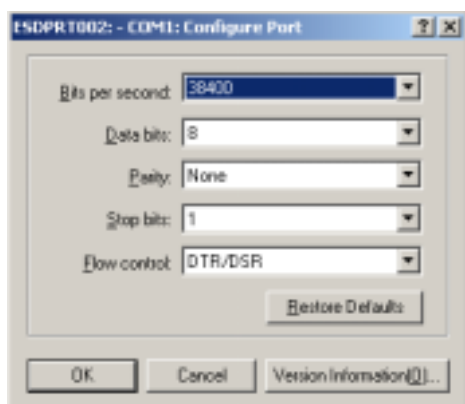


Figure COM Port Configuration

8.2. When connecting a TCP port

The screen shows a ESDPRTxxx connected to the Ethernet. Follow the onscreen instructions to change the IP address.



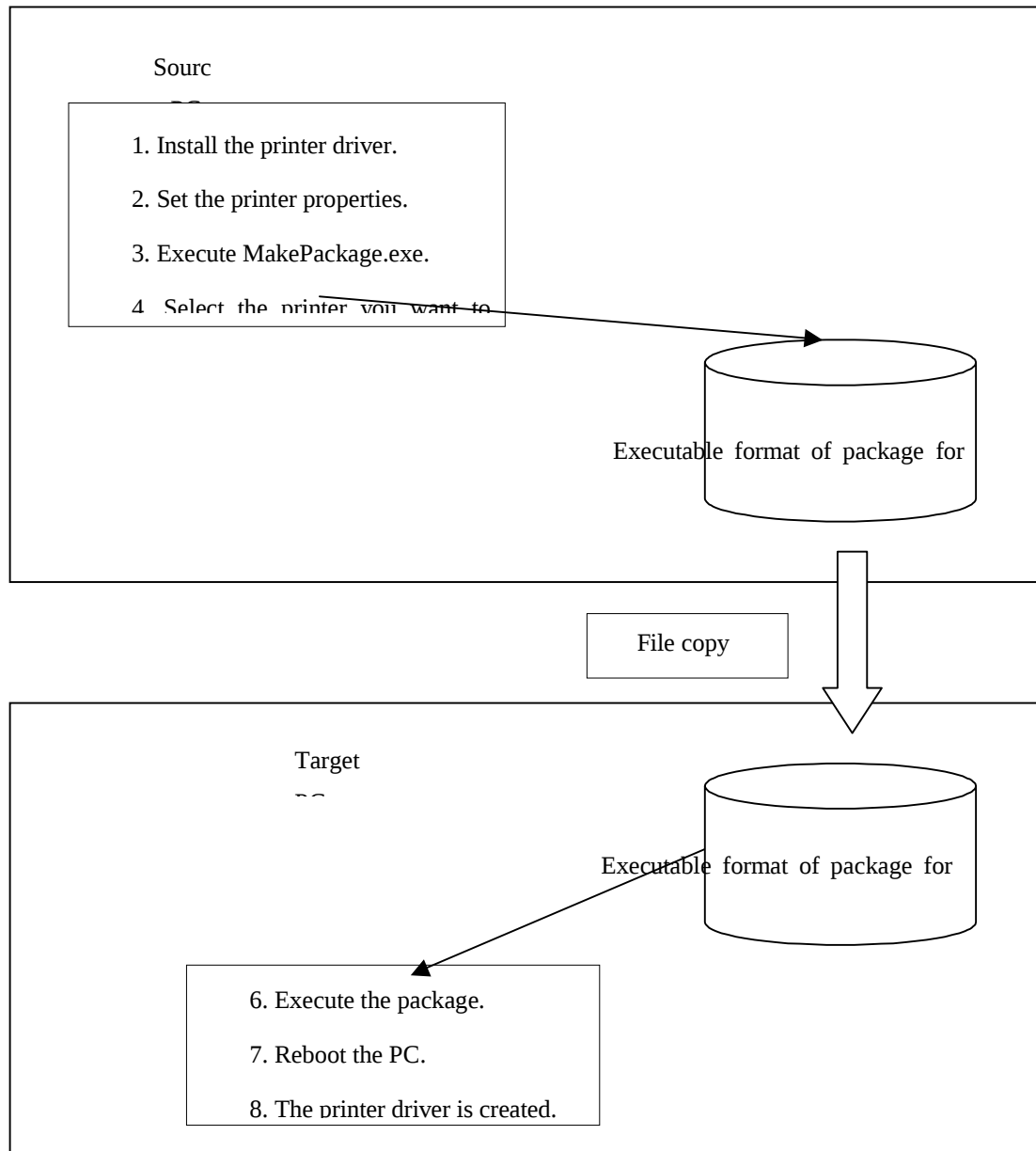
Figure Ether Port Configuration

The following IP address is not available. 255.255.255.255/0.0.0.0

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9. Silent Installation

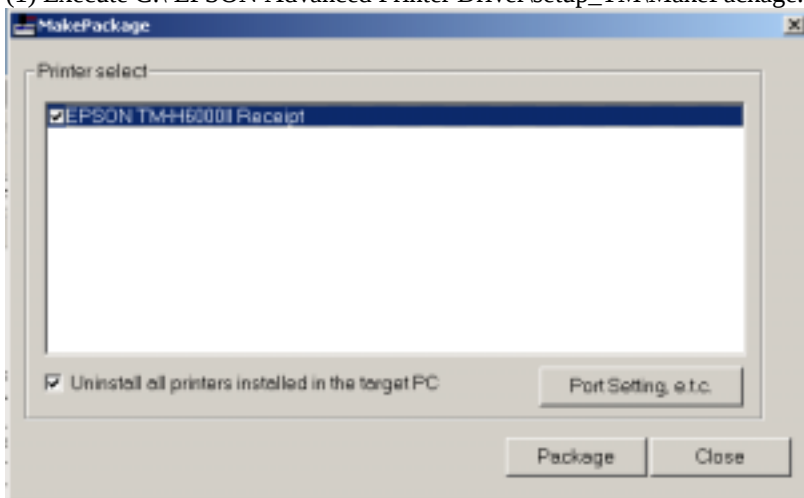
With this driver, silent installation, in which the settings installed in a PC can be installed on another PC without using the GUI, is available.



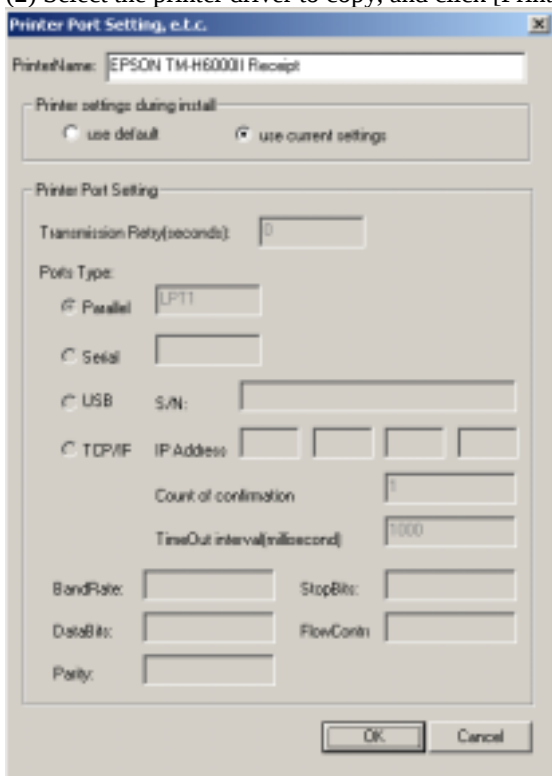
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9.1. Execution Procedure

(1) Execute C:\EPSON Advanced Printer Driver\setup_TM\MakePackage.exe.



(2) Select the printer driver to copy, and click [Printer Port Setting, etc.].



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(3) To change the printer name, input the printer name you desire to change to. The symbols !, ¥, ,, =, ; cannot be used here.

Select either of the following for the printer settings for installing “Printer setting during install.”

- Using defaults: The defaults at the time of installation are used.
- Using current settings: The current printer properties are used.

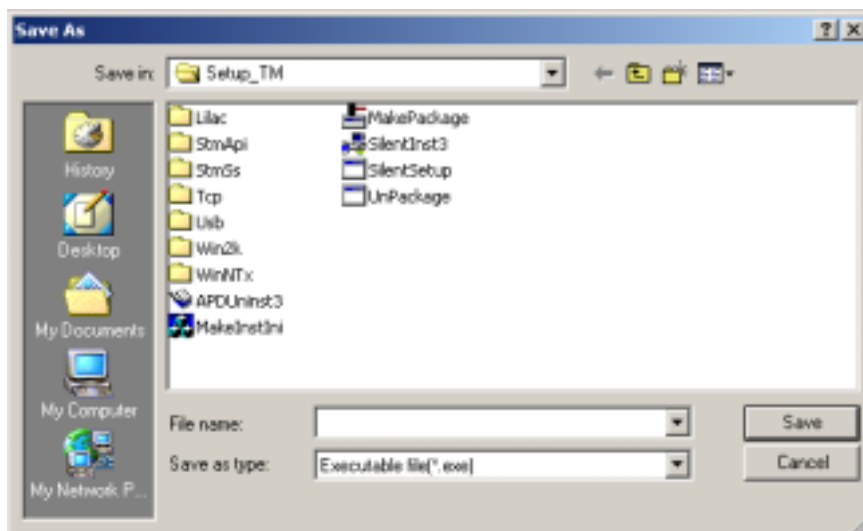
With the printer port settings, only the current settings are displayed and cannot be changed. Click OK.

(4) The screen returns to (1). Check [Uninstall all printers installed in the target PC] if necessary, and click on the package.

Unchecked: when the same type of printer as you are going to install already exists, uninstalls the existing printer, and then installs the printer.

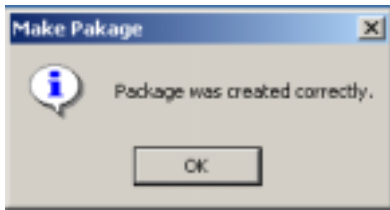
Checked: Uninstalls all the TM/BA/EU printers, and installs the printer.

(5) After confirming whether or not to start packaging, the following window appears. Specify the file name with the executable format you desire to create.



(6) If the package was created correctly, the following dialog box appears.

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9.2. Package Argument for Copying

When you execute MakePackage.exe, execute the created execution format file in another PC to install the print driver; you can specify the following startup commands for parameters.

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Reboot command line			
Package name [•Destination IP address] [Log file name] [•Whether or not to reboot] [•Window handler of destination of result notification [•Notification message ID]] •: space, []: option, < >: required item, /: selection			
Destination IP address	Semantics		
None	Sets the IP address specified in Setup.ini.		
-p< • IP address> or -P< • IP address> IP address=nnn.nnn.nnn.nnn	Sets the destination of connection of the printer driver to the specified IP address.		
Log file name	Semantics		
None	Uses the default (APDInstall.log).		
L< • "Log file name"> or l< • "Log file name">	After installation, renames the log file as specified. *Sets the "winnt" folder as the log file's output path.		
Whether or not to reboot	Semantics		
No	Reboots after the installation is complete.		
-R< • Y/y/N/n> or -r< • Y/y/N/n>	"Y" or "y": Reboots the PC. "N" or "n": Does not reboot the PC.		
Window handler of destination of result notification	Semantics		
None	Does not notify the results of the processing by using the window message.		
-W< • Window handler> or -w<Window handler> * •Window handler is written in hexadecimal characters	Notifies the following processing results to the specified window handler. Notification parameters of the window message WPARAM: 0 (Success), 1 (Failure), 2 (Execute uninstallation) LPARAM: NULL		
TITLE Notification message ID None Installation Manual	Revision		No
	Semantics		
	Uses ID=WM_USER+100 to notify the processing results. 20		19
-M< • message ID> or -m< • message ID> *Message ID is in hexadecimal characters	Uses the specified message ID to notify the processing results. Specifying a message ID that is WM_USER or later is recommended.		

9.3. Obtaining installation results

Installation results can be confirmed by the following methods:

Registering installation results with event logs

Notification using ExitCode (Installation results will be returned to “errolevel” if they are sent from a BAT file.)

A notification from a Window message to a Window program returns “0: Success, 1: Failure, 2: Execute Uninstallation” to the specified destination. When uninstalling a previous ver.2 printer driver, “2” brings the PC back to the condition before the OS was rebooted. It then notifies either “0” or “1” after the OS is restarted.

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10. Uninstallation

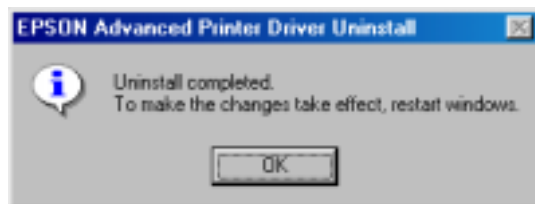
Follow the instructions below for uninstallation.

Select [EPSON Advanced Printer Driver 3] from [Add/Remove Program] of [Control Panel].

The installed printer driver and StatusAPI will appear in the following window. Select the items to be deleted.



If you click [Delete], a selected module will be deleted. When all the items are deleted, the following window appears. Restart the computer.



During installation, you can delete folders whose files failed to unzip (Example: C:\EPSON Advanced Printer Driver\setup) without any problems. However, do not delete such folders if you are going to copy and install them to another PC.

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11. Notes on Usage

For Windows NT/2000/XP, execute under administrator's authority. If there is no administrator, the installation is prevented.

If there has already been a printer with the same printer name, register the new printer by adding a number between 1 and 99 in parentheses after the printer name.

Example: EPSON TM-T90 Receipt(2)

After installing the driver, be sure to reboot the PC before making the settings. If the PC is not rebooted, the driver might not work correctly.

If you change the interface for a port after it has been installed, delete the port using the Port tab of the Printer Driver Property and then add the port again using the same tab.

For USB interfaces, basically the port is created or deleted automatically. (LPT/COM/Ether ports are not created automatically; the user must assign them.) The basic rule for USB ports is that the numbers indicate the priority, with number 1 as the highest.

When a printer with a USB-I/F (hereinafter referred to as a USB printer) is connected, it is assigned to the highest priority number not yet used of ESDPRTxxx:.

Example)

ESDPRT001: -> LPT1:
ESDPRT002: -> COM1:
ESDPRT004: -> 192.168.0.16: (Ether)

If a USB printer is connected to the configuration above, it is specified as ESDPRT003:.

If multiple USB printers are connected and one of them is removed, the port names are not renumbered.

ESDPRT001: -> LPT1:
ESDPRT002: -> USB (printer No.1)
ESDPRT003: -> USB (printer No.2)
ESDPRT004: -> 192.168.0.16: (Ether)
ESDPRT005: -> USB (printer No.3)

If USB printer No.2 is removed from the configuration above, nothing is assigned to ESDPRT003: port.

If a USB printer once removed is re-connected, it is assigned to the port name previously used; however, if that port name is already used, a new port name is assigned.

ESDPRT001: -> LPT1:
~~ESDPRT002: -> USB (Printer No.1) (turn the printer power off, remove it)~~
~~ESDPRT003: -> USB (Printer No.2) (turn the printer power off, remove it)~~

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ESDPRT004: -> 192.168.0.16: (Ether)

ESDPRT005: -> USB (printer No.3)

If USB printer No.2 is re-connected to the configuration above, it is assigned to ESDPRT003:.

Even if a USB printer is removed when the PC is operating, the port numbers (ESDPRTxxx:) are not changed.

When the USB printer is connected again, it is assigned to a port to which nothing is assigned.

ESDPRT001: -> LPT1:

ESDPRT003: -> USB (printer No.1)

ESDPRT004: -> 192.168.0.16: (Ether)

ESDPRT005: -> USB (printer No.2)

Even if the USB printer No.1 is removed from the configuration above, the ESDPRT003: port remains. If the USB printer is connected without restarting the PC, it is assigned to ESDPRT003:.

Even if a USB printer is removed while the PC is operating, the port (ESDPRTxxx:) remains as it is. After that if the removed printer is not connected before the PC is restarted, the port is deleted.

ESDPRT001: -> LPT1:

ESDPRT003: -> USB (printer No.1)

ESDPRT004: -> 192.168.0.16: (Ether)

ESDPRT005: -> USB (printer No.2)

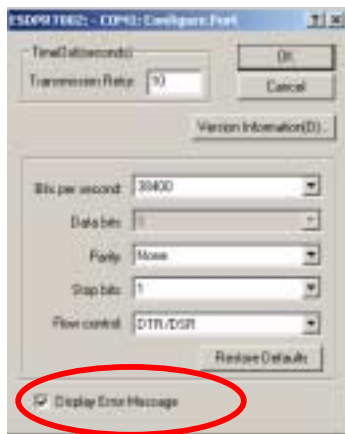
Even if the USB printer No.1 is removed from the configuration above, the ESDPRT003: port remains.

However, when the PC is restarted, the ESDPRT003: port is deleted.

After installing the driver, be sure to restart the PC before performing settings. Otherwise, the printer may not operate normally.

Even in cases when printing must be discontinued for some reason, such as the printer power was turned off during the printing process, no error message appears. If you need to display the error message, change the setting shown below. Go to [Printer Properties] – [Port] and click [Printer port settings], display the following dialog box, and check [Display Error Message].

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