

Operator's Manual for TOSHIBA Printing System

E-STUDIO190F

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System Requirements

•	Personal Computer	:	IBM PC/AT and compatibles (CPU Pentium II or gre	ater)
•	Operating System	:	Windows 98 ^{*1} , Windows Me ^{*2} , Windows NT 4.0 ^{*3} , W	indows 2000 ^{*4} , Windows XP ^{*5} ,
			Windows Server 2003* ⁶	
•	System Memory	:	The minimum recommended Memory for each OS is	s as follows:
			Windows 98, Windows Me	: 64 MB or greater
			Windows 2000, Windows XP, Windows NT 4.0, Windows Server 2003	: 128 MB or greater
• • •	Free Disk Space CD-ROM Drive Interface	:	40MB or more (Not including storage space of image Used for installing the software and utilities from the 10Base-T/100Base-TX Ethernet port , USB port	es for Image Overlay function). CD-ROM.

* 1 Microsoft[®] Windows[®] 98 operating system (hereafter Windows 98)

* 2 Microsoft[®] Windows[®] Millennium Edition operating system (hereafter Windows Me)

- * 3 Microsoft[®] Windows NT[®] operating system Version 4.0 (hereafter Windows NT 4.0)
- * 4 Microsoft[®] Windows[®] 2000 operating system (hereafter Windows 2000)
- * 5 Microsoft[®] Windows[®] XP operating system (hereafter Windows XP)

* 6 Microsoft[®] Windows Server [™] 2003 operating system (hereafter Windows Server 2003)

Installation Procedures

This manual provides examples of instructions for installing, configuring and using the printer driver for your version of Windows OS.

To use as a USB Printer:	
Windows 98	: Follow the procedures on pages 12 to 15. (Connecting with a USB Cable)
Windows Me	: Follow the procedures on pages 16 to 18. (Connecting with a USB Cable)
Windows NT	: This Windows OS does not support a USB Printer.
Windows 2000	: Follow the procedures on pages 19 to 21. (Connecting with a USB Cable)
Windows XP/ Windows Server 2003	: Follow the procedures on pages 22 to 23. (Connecting with a USB Cable)

To use as a Network Prin	ter:
Windows 98	: Follow the procedures on pages 6 to 11 (Installing the Printer Driver) and then pages 24 to 27 (Installing the LPR Monitor).
Windows Me	: Follow the procedures on pages 6 to 11 (Installing the Printer Driver) and then pages 24 to 27 (Installing the LPR Monitor).
Windows NT	: Follow the procedures on pages 6 to 11 (Installing the Printer Driver) and then pages 28 to 31 (Installing the LPR Monitor).
Windows 2000	: Follow the procedures on pages 6 to 11 (Installing the Printer Driver) and then pages 32 to 35 (Installing the LPR Monitor).
Windows XP/ Windows Server 2003	: Follow the procedures on pages 6 to 11 (Installing the Printer Driver) and then pages 32 to 35 (Installing the LPR Monitor).

1		Insert the CD-ROM.
2	▶ Prixting System English Français Español	Click on the desired language. Note: If the CD-ROM does not launch automatically, double click the My Computer icon on the Desktop or on the Start menu, then double click the CD-ROM icon.
3	Prevenue your much for purchasing this Product. This software contains versatile utilities, which have been specifically designed to meet our customers' needs. Before installing this software, we strongly recommend you read the "Read Me First" document.	Click the Next button. Note for Windows 98/Windows Me users: If your computer does not have the LPR Port Monitor installed, please proceed to "Installing the LPR Monitor" on page 24 before continuing this installation.
4	Prodeg system Read Me First View Operator's Manual Install Printer Driver Download Adobe@ Readr@ Ingle from adobe.com/ Back Ext	Click Install Printer Driver.
5	InstallShield Wizard Image: Choose the model of the device to install. Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Network Printer Search Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Network Printer Search Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Network Printer Search Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the model of the device you want to install. Image: Choose the device you want to install. Image: C	Select Local Printer and click the Next button.

6	InstallShield Wizard	Select your machine's model(s) check box and
O	Select Printer Driver	
	Choose the model of the device to install.	click the <u>Next</u> button.
	Select the device you want to install.	
	TOSHIBA e-STUDIO190F PCL 4337 K PCL Printer Driver for TOSHIBA e-STUDIO190F.	
	Space Required on C: 10792 K	
	InstallShield	
7	InstallShield Wizard	Select how your machine will be used, either as a
1	Select Printer Type	Network Printer or as a USB Printer.
	Select the printer type.	If Notwork Printer is selected click the
	C Use your machine as a PCL Network Printer	
	C Use your machine as a USB PCL Printer.	Next button and continue with Step 8.
		If USB Printer is selected, click the Next
		button and skip to Step 12.
	InstallShield Cancel Cancel	Note: Make sure that the Power Switch of your machine is OFF and the USB cable is not connected to your computer.
0	InstallShield Wizard	Check I DT1, and aliak the Next Abutton
0	Select Printer Port	
	Select the printer port.	
	Printer Port List	
	Create New Port C:\Documents and Settings\All Users\Deal CDM1: CDM2: CDM3: CDM4: FILE: FI1: FI1: FI1: FI1: FI1: FI1: FI1: FI1	
	InstallShield	
	< <u>B</u> ack Next> Cancel	
9	Question 🔀	Click the Yes button if you would like to
-	A default printer is already set on this computer. Do you wish to select a new default printer?	change your current default printer to the one that
	Current default printer = TOSHIBA e-STUDIO452Series PCL6	you are installing.
	<u>Yes</u> <u>N</u> o	Note: This dialog box only appears if another printer is already installed.

1	0

10	InstallShield Wizard	Select your new default printer from the New
	Select Default Printer	Printer List and click the Next button.
	Select the default printer.	
	Satas default printer Manu Drinter List	
	TOSHIBA e-STUDI0190F PCL6 TOSHIBA e-STUDI0190F PCL6	
	InstellShield	
	< <u>B</u> ack <u>N</u> ext> Cancel	
		The required files are eenied
11	InstallShield Wizard	The required lifes are copied.
	Printer Driver Setup is performing the requested operations.	
	58%	
	Instalionield	
12a	InstallShield Wizard	<windows 98,="" me="" windows=""></windows>
120	Plug-and-Play	When this message appears, turn the Power
		Switch of your machine ON and connect your
	To use the USP exister	machine to an available USB Port on your
	Turn the Power Switch of your machine ON and connect your machine to the USB nort on your computer	computer.
		Note: (For Windows 98 users)
		If your PC does not detect the device, and a
		dialog box does not appear confirming its
		detection after the USB cable is connected,
	InstaliBhield	proceed as follows:
	< Back Next > Cancel	1. Locate the Drvins.exe file under the

- D:\Tools\DrvUnIns directory on the CD-ROM and execute the file to delete the Printer Driver (where "D:" is your CD-ROM drive).
- 2. Follow the procedures on pages 12 to 15 to reinstall the Printer Driver.

12h	Digital Signature Not Found	<windows 2000=""></windows>
120	The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been attered since it was tested. The software you are about to install does not contain a discost digital signature. Therefore, there is no guarantee that this software works correctly with Windows. Unknown software package If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.	Click the Yes button.
	Do you want to continue the installation? Yes No	
	InstallShield Wizard Plug-and-Play To use the USB printer Turn the Power Switch of your machine ON and connect your machine to the USB port on your computer.	When this message appears, turn the Power Switch of your machine ON and connect your machine to an available USB Port on your computer.
	Instalibhield	
	Digital Signature Not Found Image:	Click the Yes button.
120		<windows 2003="" server="" windows="" xp=""></windows>
120	Software Installation Image: A software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.	Click the Continue Anyway button.
	Continue Anyway	

12c

InstallShield Wizard Plug-and-Play To use the USB printe Turn the Power Swi the USB port on your o	r tch of your machine ON and connect your machine to computer.	When this message appears, turn the Power Switch of your machine ON and connect your machine to an available USB Port on your computer.
Instal Official Found New Hardware W	< Back [fext >] Cancel izard Welcome to the Found New Hardware Wizard	<windows 2="" pack="" service="" xp=""> Select No, not this time and click the</windows>
	Windows will search for current and updated software by looking or your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and every time I connect a device No, not this time Click Next to continue.	Next button.
	< Back Next > Cancel	
Found New Hardware W	izard	Select Install the software automatically and
Found New Hardware W	izard Welcome to the Found New Hardware Wizard This wizard helps you install software for: TOSHIBA e STUDIO190F PCLS	Select Install the software automatically and click the <u>Next</u> button.
Found New Hardware W	izard Welcome to the Found New Hardware Wizard This wizard helps you install software for: TOSHIBA e-STUDI0190F PCL6 If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do? Install the software automatically [Recommended] Install the software automatically [Recommended] Install from a list or gpecific location (Advanced)	Select Install the software automatically and click the <u>Next</u> button.
Found New Hardware W	izard Welcome to the Found New Hardware Wizard This wizard helps you install software for: TOSHIBA e-STUDIO190F PCL6 If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do? Install the software automatically [Recommended] Install from a list or gpecific location (Advanced) Click Next to continue.	Select Install the software automatically and click the <u>Next</u> button.
Found New Hardware W Found New Hardware W Please select the best	izard Welcome to the Found New Hardware Wizard This wizard helps you install software for: TOSHIBA e-STUDIO190F PCL6 Offloppy disk, insert it now. What do you want the wizard to do? Offloppy disk, insert it now. What do you want the wizard to do? Directal the software automatically (Recommended) Install from a list or geocific location (Advanced) Click Next to continue.	Select Install the software automatically and click the <u>Next</u> button. This message may appear if you have a previous version of the printer driver installed.
Found New Hardware W	izard Welcome to the Found New Hardware Wizard This wizard helps you install software for: TDSHIBA e STUDIO190F PCL6 Image: Studio1110 for PCL6	Select Install the software automatically and click the Next button. This message may appear if you have a previous version of the printer driver installed. Select the latest version of the * inf file and click
Found New Hardware W	izard Welcome to the Found New Hardware Wizard This wizard helps you install software for: TOSHIBA e-STUDIO190F PCL6 If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do? Install the software automatically (Recommended) Install from a list or gpecific location (Advanced) Click Next to continue. Reack Next > Cancel Cancel Cancel Current Advance from the list below. Current Advance for Manufacturer Location PO190F PCL6 Version Manufacturer Location PO190F PCL6 51.76.0 TOSHIBA d:vpanish/pcl/driv	Select Install the software automatically and click the Next button. This message may appear if you have a previous version of the printer driver installed. Select the latest version of the *.inf file and click the Next button.
Found New Hardware W Found New Hardware W Please select the best Description TOSHIBA eSTUE TOSHIBA eSTUE TOSHIBA eSTUE TOSHIBA eSTUE	izard Welcome to the Found New Hardware Wizard This wizard helps you install software for: TOSHIBA e-STUDIO190F PCL6 Or floppy disk, insert it now. What do you want the wizard to do? Onstall the software automatically (Recommended) Onstall from a list or gpecific location (Advanced) Click Next to continue. Click Next	Select Install the software automatically and click the Next button. This message may appear if you have a previous version of the printer driver installed. Select the latest version of the *.inf file and click the Next button.

12c	Hardware Installation	Click the Continue Anyway button.
	The software you are installing for this hardware: Printers has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.	
	Continue Anyway STOP Installation Found New Hardware Wizard Completing the Found New Hardware Wizard Completing the Found New Hardware Wizard Device the software for With the software for With the software for With the software for Market Studio 1906 PCL6	Click the Finish button.
	Click Finish to close the wizard.	
13	InstallShield Wizard InstallShield Wizard Complete The InstallShield Wizard Complete The InstallShield Wizard Lowplete The InstallShield Wizard Lowplete The InstallShield Wizard Complete The InstallShield Wizard Complete	When the setup process is completed, a message is displayed prompting you to restart your computer.
	No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup. (Back Finish Cancel	Click theFinish button to restart your computer.

The Printer Driver is installed, and the Printer icon(s) are added to the Printer folder.

If you are installing the Printer Driver for network printing, please contact your network administrator for the IP Address of the machine and proceed to the next section to install the LPR Monitor service for the version of Windows you are installing after your computer has rebooted.

NOTE

 When installing on Windows NT 4.0, Windows 2000, Windows XP or Windows Server 2003 logon to the computer/network using an account with administrator rights.
 To remove the Printer Driver, select **TOSHIBA e-STUDIO190F PCL6** on the **Add/Remove**

Programs Properties in the Control Panel and click the

Add... / Remove button.

Connecting with a USB Cable (Windows 98)

To use the printer by means of a USB cable connection, install the printer driver by following the steps below.



< <u>B</u>ack

Next > Cancel

1

Connect the printer to the PC with an USB cable.

Turn the Power Switch of your machine ON.



Connecting with a USB Cable (Windows 98)

4



Insert the CD-ROM included in the PCL Option.

Select Specify a location and type

D:\English\PCL\Driver\UsbDrv\Win9x

(where "D:" is your CD-ROM drive).

Click the Next button.

Click the Next button.

Click the Finish button.

The **New Hardware Found** dialog box appears for a brief moment, followed by the **Add New Hardware Wizard** dialog box.

Click the Next button.

Continued on the next page...

Next > Cancel

Connecting with a USB Cable (Windows 98)

Add Now Hardware X	tioard
Add New Hardware V	What do you want Windows to do? Image: Search for the best driver for your device. If Recommended). Display a list of all the drivers in a specific location, so you can select the driver you want.
	< <u>B</u> ack Next > Cancel
Add New Hardware V	Vizard Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click. Next to start the search. ☐ Eloppy disk drives ☐
	Microsoft Windows Update Specify a Jocation: D:\English\PCL\Driver\Win9x Browse
	<u> </u>
Add New Hardware V	Vizard Windows driver file search for the device: TOSHIBA eSTD190F PCL6 Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue. Location of driver: D:\ENGLISH\PCL\DRIVER\WIN3K\SETUP1
	< <u>B</u> ack Next> Cancel
2 Add Printer Wizard	You can type a name for this printer, or you can use the name supplied below. When you have finished, click Next. Printer name: TOSHIBA eSTD190F PCLE Do you want your Windows-based programs to use this printer as the default printer? ☞ Yes

< <u>B</u>ack

Next > Cancel

Select Search for the best driver for your device.

Click the Next button.

Select Specify a location and type

D:\English\PCL\Driver\Win9x

(where "D:" is your CD-ROM drive).

Click the Next button.

Click the Next button.

Enter the Printer name and click the

Next button.

Connecting with a USB Cable (Windows 98)



Click the Finish button.

Connecting with a USB Cable (Windows Me)



Connect the printer to the PC with an USB cable.

Turn the Power Switch of your machine ON.



The New Hardware Found dialog box appears for a brief moment, followed by the Add New Hardware Wizard dialog box.

Select Specify the location of the driver.

Click the button. Next

Insert the CD-ROM included in the PCL Option.

Select Specify a location and type

D:\English\PCL\Driver\UsbDrv\Win9x

(where "D:" is your CD-ROM drive).

Click the Next button.



3



Next

button.

Click the

Connecting with a USB Cable (Windows Me)







8



Click the Finish button.

The **New Hardware Found** dialog box appears for a brief moment, followed by the **Add New Hardware Wizard** dialog box.

Select Specify the location of the driver.

Click the Next button.

Select Specify a location and type

D:\English\PCL\Driver\Win9x

(where "D:" is your CD-ROM drive).

Click the Next button.

Connecting with a USB Cable (Windows Me)

Add New Hardware Wiz	ard	Click the Next button.
	Windows driver file search for the device: TOSHIBA eSTD190F PCL6 Windows is now ready to install the best driver for this device. Click Back to select a different driver, or click Next to continue. Location of driver: D:\ENGLISH\PCL\DRIVER\WINSK\SETUP < Back Cancel	
Add Printer Wizard		Enter the Printer name and click the
Line of the second	You can type a name for this printer, or you can use the name supplied below. When you have finished, click Next. Printer name: TOSHIBA ESTDIGOF PCLS Do you want your Windows-based programs to use this printer as the default printer? ⓒ Yes ⓒ No Common State Stat	Next button.
11 Add New Hardware With	TOSHIBA eSTD190F PCL6 Windows has finished installing the new hardware device. < Back Finish Cancel	Click the Finish button.

Connecting with a USB Cable (Windows 2000)



Connect the printer to the PC with an USB cable.

Turn the Power Switch of your machine ON.



A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next.

C Display a list of the known drivers for this device so that I can choose a specific

<<u>B</u>ack <u>N</u>ext > Cancel

• Search for a suitable driver for my device (recommended)

What do you want the wizard to do?

Δ

The **Found New Hardware Wizard** dialog box appears.

Click the Next button.

Select Search for a suitable driver for my device.

Click the Next button.

Insert the CD-ROM included in the PCL Option.

Continued on the next page ...

Connecting with a USB Cable (Windows 2000)

5	Found New Hardware Wizard	Select Specify a location.
J	Locate Driver Files	
	where do you want windows to search for driver riles?	
	Search for driver files for the following hardware device:	
	The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify. To start the search, click Next If you are searching on a floopy disk or CD-ROM drive.	
	insert the floppy disk or CD before clicking Next.	
	Floppy gisk drives D-ROM drives	
	Specify a location Microsoft Windows Update	
	<u> </u>	
6	Found Nam Havdmana Wissard	Туре
O		
	selected, and then click DK.	D:\English\PCL\Driver\WinXP-2K-2003
		(where "D:" is your CD-ROM drive).
	Copy manufacturer's files from:	Click the OK button.
	D:\English\PCL\Driver\WinXP-2K-2003	
_		
7	Found New Hardware Wizard	Click the Next button.
	The wizard has finished searching for driver files for your hardware device.	
	The wizard found a driver for the following device:	
	2 Unknown	
	Windows found a driver for this device. To install the driver Windows found, click Next.	
	dianglichingk driveduchiwinyn 204da 2010a inf	
	< <u>B</u> ack Cancel Cancel	
_		
8	Digital Signature Not Found	Click the Yes button.
-	The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.	
	The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no	
	guarantee that this software works correctly with Windows.	
	Printers	
	If you want to search for Microsoft digitally signed software, visit the Windows Ubdate Web site at	
	http://windowsupdate.microsoft.com to see if one is available.	
	Do you want to continue the installation?	
	Yes No More Info	

Connecting with a USB Cable (Windows 2000)

Completing the Found New Hardware Wizard
TOSHIBA e-STUDIO190F PCL6
Windows has finished installing the software for this device.
To close this wizard, click Finish.

Click the Finish button.

Connecting with a USB Cable (Windows XP/Windows Server 2003)



Connect the printer to the PC with an USB cable.

Turn the Power Switch of your machine ON.



Connecting with a USB Cable (Windows XP/Windows Server 2003)





Windows 98/Windows Me

Setup Status		
M-LPR Port Monitor Set	up is performing the requested operations.	_
Installing		
C:\\{BFAE2967-A3FB	4ACF-AA99-F5E2AF0AD527}\data1.cab	
	42%	
nstallShield		
		· · · · · · · · · · · · · · · · · · ·





Printers			
<u></u> Eileditiew	ào F <u>a</u> vorites <u>H</u> elp		
$ \leftarrow , \rightarrow$. 🖬 🐰 🎚		
	Up Cut Ci	opy Paste Undo	
🛛 Address 🞯 Printers		•	
🧕 💕			
Add Printer TOSHIB eSTD190	<u>O</u> pen		
PCL6	Pause Printing		
	✓ Set as De <u>f</u> ault		
	Purge Print Documents		
	Sharing		
	Create Shortcut		
	<u>D</u> elete		
	Rena <u>m</u> e		
	Properties		
1 object(s) selected		1.	

The required files are copied.

The setup program copies the necessary files onto your hard disk.

When the setup process is completed, a message is displayed prompting you to restart your computer.

It is recommended that you restart your computer now so that the LPR Monitor can be started.

Click the Finish button.

If you have not installed the printer driver yet, please proceed to "Installing the Printer Driver" on page 5.

After your computer has rebooted, click the **Start** button, select **Settings**, and then click **Printers**.

The **Printers** folder appears.

Right-click on the desired printer icon and select **Properties** from the pop-up menu.

? ×

Windows 98/Windows Me

Watermar	k Öve	rlay	Secure	De	vice Optio
General D	etails Color Manage	ment Sharing	Paper	Output I	⊉uality
<u>C</u> omment:	1		_		
<u>S</u> eparator page:	(none)	<u>B</u> rowse			
	ļ	Print <u>I</u> est Page			

fatermark Overlay Secure Device Options Details Color Management Sharing Paper Output Quality Fonts

Add Port...
 Delete Port...

▼ New Driver.

End Capture.

seconds

45 seconds
 Spool Settings...
 Port Settings...

The printer properties dialog box appears.

The following step is to register the LPR Port for network printing.

Before proceeding, ensure that the printer is installed, connected to the network, turned ON and is operating properly.

Select the **Details** tab and click the Add Port... button.

11

10

HIBA eSTD190E PCL6

Print to the following port: LPT1: (ECP Printer Port)

Print using the following driver: TOSHIBA eSTD190F PCL6

Capture Printer Port...

Transmission getry: 45

15

Timeout setting

Not selected:

🍏 TOSHIBA eSTD 190F PCL6

General



Cancel

Apply

The Add Port dialog box appears. Click the Other radio button, and select M-LPR Port Monitor from

button.

the list, and click the OK

Windows 98/Windows Me

2 M-LPR Port Monitor		×
Host name or IP address: 164.1.1.10		ОК
Queue name: New112		Cancel
Start job timeout: Receive timeout:	180 Second 60 Second	
Send timeout:	180 Second	
i Enable Foct y dialog		

▼ New Drive

OK Cancel Apply

End Capture

The M-LPR Port Monitor dialog box appears.

Type the IP Address of the machine in the Hostname or IP address: text box and the queue name (e.g. New112) in the Queue name: text box.

Click the OK button. If an error occurs because the queue name had already been used for the same IP Address, select a different unique name such as "New113".

The screen reverts to the Printer Properties.

Check that the "Print to the following port:" has been changed as entered in step 12, and click the Apply

button, and then the OK button.

The printer properties dialog box closes and you have now configured the printer as a network printer.

? × nark Dverlay Secure Device Options Details Color Management Sharing Paper Dutput Quality Fonts ▼ Add Port... Delete Port... Spool Settings... Port Settings...

NOTE

3

TOSHIBA eSTD 190F PCL6

Print to the following port: 164.1.1.10:New112 (M-LPR Port)

Print using the following driver: TOSHIBA eSTD190F PCL6

Capture Printer Port...

Timeout settin

Not selected:

15 seconds

Transmission retry: 45 seconds

Windows NT 4.0

Logon using an account with administrator rights.

Identification Services Protocols Adapters Bindings Image: Computer on the network. You may change the name for this computer and the workgroup or domain that it will appear in. Computer Name: EN-WINNT Domain: UT-ENG Change OK Cancel Identification Services OK Cancel Identification Services Protocols Adapters Bindings Metwork Services Protocols Adapters Bindings Metwork Services Workstation Service Service Motification Enemove Properties Update Obscription: Distributed protocol required for running the Computer Browser revice Service				?
Windows uses the following information to identify your computer on the network. You may change the name for this computer and the workgroup or domain that it will appear in. Computer Name: EN-WINNT Domain: UT-ENG OK Cancel Identification Services Identification Services: Computer Browser NetBIOS Interface RPC Configuration Server Workstation Server Workstation Update	Identifical	ion Servic	es Protocols Adapters	Bindings
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OK Cancel Identification Services Identification Services Computer Browser Bindings NetBIOS Interface RPC Configuration Server Workstation Add Bemove Properties Update Description: Distributed protocol required for running the Computer Browser service				
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Lomputer Browser NetBIOS Interface RPC Configuration Server Workstation	Vetwork Identifical	ion Servic	es Protocols Adapters	8 indings
RPC Configuration Server Workstation Add <u>Remove</u> <u>Properties Update Description: Distributed protocol required for running the Computer Browser service </u>	letwork Identificat <u>N</u> etwork	ion Servic Services:	es Protocols Adapters	? Bindings
Add <u>Remove</u> <u>Properties</u> Update Description: Distributed protocol required for running the Computer Browser service	Network Identifical Network	ion Servic Services: 1puter Brow BIOS Interfa	er ce	Pindings
Add <u>Remove</u> <u>Properties Update</u> Description: Distributed protocol required for running the Computer Browser service	Identifical Network	ion Servic Services: nputer Brow BIOS Interfa Configurat	es Protocols Adapters er ce on	Pindings
Add <u>Remove</u> <u>Properties</u> Update Description: Distributed protocol required for running the Computer Browser service	Network Identificat Network RP Ser Ser Wo	ion Servic Services: nputer Brow BIOS Interfa Configurat ver rkstation	es Protocols Adapters er ce on	Pindings
<u>Description:</u> Distributed protocol required for running the Computer Browser service	Network Identifical Network	ion Servic Services: aputer Brow BIOS Interfa Configurat ver rkstation	es Protocols Adapters er ce on	Pindings
Distributed protocol required for running the Computer Browser service	Identifical Network	ion Services: Services: aputer Brow BIOS Interfa Configurat ver rkstation	Protocols Adapters er ce on	Bindings
	Identifical Network	ion Servic Services: aputer Brow BIOS Interfa Configurat ver rkstation d	Protocols Adapters er ce on <u>Remove</u> <u>Propertie</u>	Bindings

ΟK

Cancel

Click the **Start** button, select **Settings**, and click **Control Panel**.

The Control Panel window appears.

Double-click the Network icon.

The Network dialog box appears.

Click the Services tab.

Verify whether the LPR Service is already installed. (Indicated by Microsoft TCP/IP Printing shown in the Network Services list.)

If it is already installed, skip to Step 7. Otherwise continue installing the LPR Service.

Windows NT 4.0

3	Select Network Service ? X Click the Network Service that you want to install, then click OK. If you have an installation disk for this component, click Have Disk. Network Service: Client Service for NetWare Microsoft Peer Web Server Microsoft TCP/IP Printing NetBIOS Interface NetWork Monitor Agent Descript Access Service Have Disk	Click the Add button to display the Select Network Service dialog box, and select Microsoft TCP/IP Printing. Click the OK button.
4	Windows NT Setup Continue Setup needs to copy some Windows NT files. Continue Setup will look for the files in the location specified below. Cancel If you want Setup to look in a different place, type the new location. When the location is correct, click Cancel Continue. If you want Setup to look in a different place. Cancel	The Windows NT Setup dialog box appears. Insert the Windows NT 4.0 CD-ROM, and type D:\i386 (where "D:" is your CD-ROM drive). Click the <u>Continue</u> button.
5	Network ? × Identification Services © Computer Browser Microsoft TCP/IP Printing Microsoft TCP/IP Printing NetBIOS Interface © RPC Configuration Server Workstation Server Oescription: Enables Windows NT to print to TCP/IP-connected printers or to printers that are physically attached to UNIX computers. Close Cancel	After the files have been copied into the hard drive of your PC, the display returns to the Network dialog box. Confirm that the Microsoft TCP/IP Printing service has been added to Network Services list. Click the <u>Close</u> button. Note: If the OK button does not change into a Close button, remove and reinstall the Microsoft TCP/IP Printing service.
6	Network Settings Change Image: Change You must shut down and restart your computer before the new settings will take effect. Do you want to restart your computer now? Image: Classical Section 2016 Image: Classical Section 2017 Image: Classical Section 2017	When the Network Settings Change dialog box is displayed, click the Yes button to restart your computer now. You have now completed the LPR Service installation.

Windows NT 4.0



After your computer has rebooted, click the Start button, select Settings, and then click Printers.

The Printers folder appears.

Right-click on the desired printer icon and select Properties from the pop-up menu.

The following step is to register the LPR Port for network printing.

Before proceeding, ensure that the printer is installed, connected to the network, turned ON and is operating properly.

Select the **Ports** Tab and click the Add Port...

The Printer Ports dialog box appears.

Select LPR Port and click the New Port

Windows NT 4.0

1

Add LPR compatible printer		×
<u>Name or address of server providing lpd:</u> Name of printer or print queue on that server:	164.1.1.10	OK Cancel
		<u>H</u> elp

The **Add LPR compatible printer** dialog box appears.

Enter the IP Address of the printer in the upper field, and "Ip" for the print queue name in the lower field.

Click the OK button.

(Please wait while the wizard verifies the IP Address and connectivity to the network).

The Printer Ports dialog box appears.



Click the Close button.

Print to the following port(s). Documents will print to the first free checked port. Post Description Printer Image: Print Print Image: Print Printer Image: Print Printer Image: Print Print Print Printer Image: Print			
Pot Description Printer ✓ 164.1.1.10.LP □ IPT1: Local Pot TOSHBA e-STUDI □ IPT2. Local Pot □ DT2. Local Pot □ DT3. Local Pot □ DD4. Local Pot	Print to the following port(checked port.	s). Documents will prin	nt to the first free
	Port	Description	Printer
CPT1: Local Port TOSHIBA e-STUDI CPT2: Local Port COM1: Local Port COM2: Local Port COM2: Local Port COM3: Local Port	✓ 164.1.1.10:LP		
LPT2 Local Pot LPT3 Local Pot COM1: Local Pot COM1: Local Pot COM2 Local Pot COM2 Local Pot COM2 Local Pot	LPT1:	Local Port	TOSHIBA e-STUDI
LOT3: Local Pot COM1: Local Pot COM2: Local Pot COM2: Local Pot Com4: Local Pot	LPT2:	Local Port	
COMI: Local Port	LI LPT3:	Local Port	
COM2: Local Port	COM1:	Local Port	
		Local Port	-
	11 TITIMA	DOB FOR	_
Add Port Delete Port Configure Port	Add Port	Delete Port	Configure Port
	Enable bidirectional s		
Enable bidirectional support			

Select the printer port and click the OK button.

The printer properties dialog box closes and you have now configured the printer as a network printer.

Windows 2000/Windows XP/Windows Server 2003

Logon using an account with administrator rights.



Open the **Printers** (Windows XP/Windows Sever 2003: **Printers and Faxes**).

Right-click on the desired printer icon and select **Properties** from the pop-up menu.

The printer properties dialog box appears.

Select the Ports Tab and click the

Add Port... button.

Select Standard TCP/IP Port and click the

New Port ... button.

Windows 2000/Windows XP/Windows Server 2003

4	Add Standard TCP/IP Printer Port Wizard Welcome to the Add Standard Constraints Welcome to add a port for a network printer. Before continuing be sure that: The network is connected and configured. To continue, click Next.	Click the <u>Next</u> button.
5	Add Chandard TCD /ID Daiskon Deet Ulinand	Enter the IP Address and the Port Name and
J	Add Scalidard TLP/IP Printer Port Wizard	
	For which device do you want to add a port?	
	Enter the Printer Name of IP Address: 164.1.1.10 Pointer Name of IP Address: IP-164.1.1.10 Port Name: IP-164.1.1.10 Cancel < Back Next >	Note: The Port Name is automatically entered together with the IP Address. You may need to change it as required.
6	Add Standard TCP/IP Printer Port Wizard	Select Custom and click the Settings
Ŭ	Additional Port Information Required The device could not be identified.	button.
	The device is not found on the network. Be sure that: 1 The device is properly configured 3 The device is properly configured 4 The address on the previous page is correct. 10 The device is properly configured 10 The device is properly configured 11 The device is properly configured 12 The device is properly configured 13 The device is properly configured 14 The address on the previous page is correct. 15 The device is properly configured 16 device is properly configured 17 the address is not correct, click Back to return to the previous page. Then correct the address is correct, select the device type below. Device Type If sender to the metwork. If you are sure the address is correct, select the address is correct. If sender to the device type below. If sender to the address is correct, select the address is correct. If sender to the address is correct to the address is correct. If sender to the address is correct. If sender to the address is correct. If sender to the address is correct. If sender to the address is correct. If sender to the address is correct. If sender to the address is correct. If sender to the address is corect.	

Windows 2000/Windows XP/Windows Server 2003



Windows 2000/Windows XP/Windows Server 2003

Printer Ports	Click the Close button.
<u>A</u> vailable port types:	
Local Port MGCS LISB Port	
Standard TCP/IP Port	
New Deet Turce	
OSHIBA e-STUDIO190F PCL6 Properties	
eneral Sharing Ports Advanced Color Management Security Device Options	
S TOSHIBA e-STUDIO190F PCL6	
Print to the following port(s). Documents will print to the first free	Click the OK hutten
Port Description Printer	
COM2: Serial Port COM3: Serial Port	
COM4: Serial Port FILE: Print to File	The printer properties dialog box closes and
□ USB0 Virtual printer port to I IP_16 Standard TCP/IP Port	you have now configured the printer as a
Add Port Delete Port Configure Port	you have now comigared the printer as a
Enable bidirectional support	network printer.
Egable printer pooling	
Close Cancel Apply Help	1

Configuring the Printer Driver Settings

Windows 98/Windows Me

To change the printer settings, open the dialog box for the printer properties by performing the following steps.



Click the **Start** button, select **Settings**, and then click **Printers**.



Right-click on the desired printer icon in the **Printers** folder, and select **Properties** in the pop-up menu.

The following printer properties dialog box appears.


Windows 98/Windows Me

General Tab

IDSHIBA eSTD190F PCL6 Properties Watemark Overlay Secure Device Options Image: Status Paper Dutput Duality Fonts Image: TOSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent: Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent: Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent: Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent: Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent: Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent: Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent: Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent: Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent: Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent: Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent: Image: ToSHIBA eSTD190F PCLS Image: ToSHIBA eSTD190F PCLS Image: Connent
--

1. Comment

Enter comments to the properties, if any.

If another user sets up this printer on his or her computer when sharing the printer, the comment specified here will also appear on that computer. However, the comment displayed for an existing user will remain unchanged even if the comment is modified later.

2. Separator page

This feature is not available on your machine.

3. Print Test Page button

Prints a test page. This allows the user to verify if the printer is installed properly.

Windows 98/Windows Me

Details Tab

	TOSHIBA eSTD190F PCL6 Properties
	Watermark Device Device Options General Details Color Management Sharing Paper Quality Fonts
	TOSHIBA eSTD190F PCL6
-	Print to the following port:
	164.11.101New112 (MLPR Port) Add Port
	Print using the following driver: TOSHIBA eSTD190F PCL6 New Driver
	3 Capture Printer Port End Capture
	Timeout settings
	5 Transmission retry: 45 seconds
	Spool Settings
	OK Cancel Apply Help
-	

1. Print to the following port

Displays either the port where the printer is connected or the path to the network printer.

To change the printing destination, either select the printing destination port from the list or enter the network path here.

2. Print using the following driver

Displays the type of the printer driver. Specify the printer being used or a printer model which can be emulated with the printer being used.

3. Capture Printer Port... / End Capture... button

Assigns a local port to the network connected printer or cancels a local port assigned to the network printer.

4. Timeout settings - Not selected

Specify the amount of time (in seconds) allowed to elapse before the printer comes online. If the printer is not online within this duration, an error message will be displayed.

5. Timeout settings - Transmission retry

Specify the amount of time (in seconds) allowed to elapse before the printer is ready for printing. If the printer is not ready for printing within this duration, an error message will be displayed.

Increase this value if a timeout error occurs when printing a large document.

6. Add Port... / Delete Port... button

Adds/deletes a new port or a new network path.

7. New Driver... **button** Updates or modifies the printer driver.

Windows 98/Windows Me

- 8. Spool Settings... **button** Specify the method of sending (spooling) documents from the program to the printer.
- 9. Port Settings... button

Modifies printer port settings.

Windows 98/Windows Me

Sharing Tab



1. Not Shared/Shared As

Select whether to display or share this printer with other computers.

2. Share Name

Specify the name of the shared printer. The displayed name can be used as it is or a new name may be entered. The name specified here will be displayed when other users view information about the printer on the network.

3. Comment

You can enter comments regarding a shared printer (such as the type of printer and the location where it is installed). When other users view information about the printer on the network, the comment specified here will be displayed.

4. Password

Specify the password required when other users will connect to this printer. Leave the box blank in order not to use any password.



Windows 98/Windows Me

Device Options Tab



1. SD Memory Card (256MB or more)

Select Installed if the SD Memory Card (256MB or 512MB) is installed.

2. Auto Configuration **button**

When your machine is connected onto the network (TCP/IP), click this button to set the Options Configuration automatically.

3. Number of Paper Trays

Select the number of available paper trays if optional Paper Feed Module(s) are installed.

4. Edit URL... button

Edit the URL address that will be displayed when clicking the Support Contacts (W)... button of the Paper Tab (see page 64).

Windows 98/Windows Me

URL Support	Information X
URL 1 Title:	Support
URL 1:	
Contact 1:	
URL 2 Title:	Supplies
URL 2:	
Contact 2:	
URL 3 Title:	Sales
URL 3:	
Contact 3:	
URL 4 Title:	Network Support
URL 4:	
Contact 4:	
	OK Cancel

URL Title

Enter an applicable URL title.

URL

Enter the URL address to be associated to the

Support Contacts (W)... button of the Paper Tab. (See page 64)

Contact

Enter applicable contact information (i.e.: The email address of the contact person)



^{1.} **Device Options** Tab specifies device-specific settings and settings of optional devices. Make sure that the **Device Option Tab** is set properly before printing a document, or printing problems may occur.

Windows 98/Windows Me

Paper/Output/Quality/Fonts/Watermark/Overlay/Secure Tab

Refer to All Windows Common Settings (see pages 63 - 73).

Windows NT 4.0 (Administrator)

To change the printer settings, open the dialog box for the printer properties by performing the following steps.



Logon to the computer/network using an account with administrator rights. (See Note 1)



Click the **Start** button, select **Settings**, and then click the **Printers** icon.

3

Right-click on the desired printer icon in the **Printers** folder, and select **Properties** in the pop-up menu.

The printer properties dialog box appears.





 In Windows NT 4.0, setting of the properties depends on the logon account. This section describes properties to be specified by the administrator (system manager). See "Configuring the Printer Driver Settings (User)" for details on user properties. (See page 52)

Windows NT 4.0 (Administrator)

General Tab

	TOSHIBA e-STUDIO190F PCL6 Properties	? X
	General Ports Scheduling Sharing Security Device Options	
(1	Comment:	
2	Location:	
	Separator Page Print Processor Print Test Page 5 6 7	
	OK Cancel H	elp

1. Comment

Enter comments to the properties, if any.

If another user sets up this printer on his or her computer when sharing the printer, the comment specified here will also appear on that computer. However, the comment displayed for an existing user will remain unchanged even if the comment is modified later.

2. Location

Specifies the printer location.

3. Driver

Displays the printer driver type. Specify the printer being used or a printer model that can be emulated with the printer being used.

4. New Driver... button

Updates or modifies the printer driver.

5. Separator Page... button

This feature is not available on your machine.

6. Print Processor... button

Specify the processor to be used for printing (Print Processor) and the data type (Default Data type).

The processor and data type affect the manner in which the printer functions in Windows NT. Normally they do not need to be modified. However, modification might be necessary when the printer is used with a special application.

7. Print Test Page button

Prints a test page. This allows the user to verify if the printer is installed properly.

Windows NT 4.0 (Administrator)

Ports Tab

Image: Stand Structure Image: Stand St
OK Cancel Help

1. Print to the following port(s)

Displays a list of available ports for printing (Port), their status (Description) and printers that are connected to these ports (Printer).

2. Add Port... / Delete Port... button Adds/deletes a new port or a new network path.

3. Configure Port... button

Configures the selected port. In case of a parallel port, Transmission Retry should be specified. (See Note 1 and 2)

4. Enable bidirectional support

This setting enables reception of configuration data and status data from the printer.

5. Enable printer pooling

Printer pooling allows data sent to one logical printer to be received and printed by two or more printers. With printer pooling enabled, a transmitted printing job is output to the first printer that is ready for printing.



- 1. Specify time (seconds) waiting for the printer to be ready for printing. If a printer is not ready for printing after the specified time has elapsed, an error message is displayed.
- 2. If a timeout error occurs frequently upon printing a large size document, specify a larger value here.

Windows NT 4.0 (Administrator)

Scheduling Tab

🛷 TOSHIBA e-STUDIO190F PCL6 Properties 😰 🔀
General Ports Scheduling Sharing Security Device Options
Available: © Always © From 12:00 AM 2 Phiotky Lowest Highest Current Priority: 1 3 © Spool print documents so program finishes printing faster © Statt printing immediately © Frint gliectly to the printer 4 Hold mismatched documents 5 Print spooled documents first 6 Keep documents after they have printed
OK Cancel Help

1. Available

Schedules when the printer is available for operation. Specify operating hours when **From-To** is selected.

2. Priority

Sets printing priority. The slider allows the priority to be adjusted from 1 through 99.

3. **Spool print documents... / Print directly to the printer** Specify how documents should be sent from an application to the printer.

4. Hold mismatched documents

This feature is not available on your machine.

5. Print spooled documents first

Always prints spooled documents first regardless of printing priority.

6. Keep documents after they have printed

Holds documents in the print queue even after they have been printed. These documents can be printed again directly from the queue regardless of the state the application is in.

Windows NT 4.0 (Administrator)

Sharing Tab

✓ TOSHIBA e-STUDIO190F PCL6 Properties	
General Ports Scheduling Sharing Security Device Options	
TOSHIBA eSTUDIO190F PCL6	
1° Not Shared	
Share Name:	
You may install alternate drivers so that users on the following systems can download them automatically when they connect.	
Alternate Drivers: Windows 95 Windows 95 Windows NT 4.0 x86 [Installed] Windows NT 4.0 MIPS Windows NT 4.0 Apha Windows NT 4.0 Apha Windows NT 4.0 PPC Windows NT 4.0 PPC Windows NT 3.5 x 3.51 x86	
To modify the permissions on the printer, go to the Security tab.	
OK Cancel Heip	

1. Not Shared/Shared

Select whether to display or share this printer with other computers.

2. Share Name

Specify the name of the shared printer. The displayed name can be used as it is or a new name may be entered. The name specified here will be displayed when other users view information about the printer on the network.

3. Alternate Drivers (See Note 1)

Allows other operating systems' printer drivers to be loaded. When users of these operating systems connect to the printer, the printer driver is automatically loaded.



^{1.} When sharing a printer on the network, the print driver needs to be installed on the print server only, and other computers will automatically copy and use that driver. For this reason, the print server must be ready with printer drivers for all the operating systems of all the computers that will be sharing the printer.

Windows NT 4.0 (Administrator)

Security Tab

C	TOSHIBA e-STUDIO190F PCL6 Properties Image: Comparison of the security Device Options Permissions Image: Comparison of the security Device Options Permissions Image: Comparison of the security Device Options Auditing Image: Comparison on the security View or set auditing information on the security View or set auditing information on the security Options Ownership Image: Comparison of the selected item(s). Image: View or take ownership of the selected item(s). Image: Comparison option Image: View or take ownership of the selected item(s). Image: Comparison option	
	OK Cancel Help	

- 1. Permissions **button** Set printer access privileges.
- 2. Auditing button

Displays the users who have used this printer and how they used it.

3. Ownership **button**

Set the ownership of the printer.



1. In order to utilize these features, first you need to select Audit... from User Manager's Policies and enable File and Object Access in the Audit Policy dialog box.

Windows NT 4.0 (Administrator)

Device Options Tab



1. SD Memory Card (256MB or greater) Select Installed if the SD Memory Card (256MB or 512MB) is installed.

- 2. Auto Configuration **button** When your machine is connected onto the network (TCP/IP), click this button to set the Options Configuration automatically.
- 3. **Number of Paper Trays** Select the number of available paper trays if optional Paper Feed Module(s) are installed.

4. Edit URL... button

Edit the URL address that will be displayed when clicking the Support Contacts (W)... button of the Paper Tab (see page 64).

Windows NT 4.0 (Administrator)

URL Support	Information
URL 1 Title:	Support
URL 1:	
Contact 1:	
URL 2 Title:	Supplies
URL 2:	
Contact 2:	
URL 3 Title:	Sales
URL 3:	
Contact 3:	
URL 4 Title:	Network Support
URL 4:	
Contact 4:	
	OK Cancel

URL Title

Enter an applicable URL title.

URL

Enter the URL address to be associated to the

Support Contacts (W)... button of the Paper Tab.

Contact

Enter applicable contact information (i.e.: The email address of the contact person)

NOTE

1. **Device Options** Tab specifies device-specific settings and settings of optional devices. Make sure that the **Device Option Tab** is set properly before printing a document, or printing problems may occur.

Windows NT 4.0 (User)

To change the printer settings, open the dialog box for the printer properties by performing the following steps.



Select **Print** in the **File** menu of the application.

-

Δ

Select the printer model in the name list box.

Click the Properties... button in the **Print** dialog box.

The printer properties dialog box appears. Click the desired tabs of the dialog box and specify the properties. (See Note 1) (See pages 63 - 73)



^{1.} In Windows NT 4.0, setting properties depends on the logon account. This section describes properties to be specified by a user, upon executing a print operation in an application. See "Configuring the Printer Driver Settings (Administrator)" for details on administrator properties. (See page 44)

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

To change the printer settings, open the dialog box for the printer properties by performing the following steps.



Logon to the computer/network using an account with administrator rights.

2

Click the **Start** button, select **Settings**, and then click the **Printers** (Windows XP/Windows Server 2003: **Printers and Faxes**) icon.

3

Right-click on the desired printer icon in the **Printers** folder, and select **Properties** in the pop-up menu.

The following printer properties dialog box appears. (See Note 1)

📴 Printers				
File Edit View Favorites Tool	s Help			
📙 🖨 Back 🔻 🔿 👻 🔂 🔞 Search	Folders	CHistory	$ \stackrel{\mathrm{de}}{=} \stackrel{\mathrm{de}}{\times} \times \mathfrak{O} \blacksquare \cdot$	
Address 3 Printers				▼ @60
	3	۴		1
Printere	Add Printer	TOSHIB e-STUDIO	Open	
Fincers		F PCL6	✓ Set as Default Printer	
TOSHIBA e-STUDIO190F PCL6			Printing Preferences	
Documents: 0			Pause Printing Cancel All Documents	
Status: Ready			Sharing	
Model: TOSHIBA e-STUDIO190F			Use Printer Offline	
Waiting Time: 0			Create Shortcut Delete	
			Rename	
			Properties	
Windows 2000 Support				
	1.9			
Usplays the properties of the selected	ricems.			1.



1. In Windows 2000/Windows XP/Windows Server 2003, setting the properties depends on the logon account. This section describes properties to be specified by the administrator (system manager). See "Configuring the Printer Driver Settings" for details on user properties. (See page 62)

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

General Tab

(TOSHIBA e-STUDIO190F PCL6 Properties General Sharing Ports Advanced Color Management Security Device Options TOSHIBA e-STUDIO190F PCL6 Comment Mgdet TOSHIBA e-STUDIO190F PCL6 Features Color No Paper available: Double-sided: Yes Staple: No Staple: No Staple: No Staple: 19 ppm Maximum resolution: 600 dpi Pint Test Page 6	2	
	OK Cancel Apply	Help	

1. Printer Name

Name of the printer specified upon installation is displayed.

2. Location and Comment

Enter a comment about the location of the printer installation and information about the printer.

If a printer is shared, the location and comments specified in this field appear when another user sets up this printer on his/her computer. After completion of setup, however, changing this comment does not update the location and comment appearing on users PCs.

3. Model

Model name of the printer is displayed.

4. Features

Functions and settings of the printer are displayed.

5. Printing Preferences... button

Changes properties (print settings) specifiable for each user. Refer to "Configuring the Printer Driver Settings (User)" for details on settings (see page 62).

6. Print Test Page button

Prints a test page. This allows the user to verify if the printer is installed properly.

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

Sharing Tab

<windows 2000=""></windows>	<windows 2003="" server="" windows="" xp=""></windows>
🗳 TOSHIBA e-STUDIO190F PCL6 Properties	STOSHIBA e-STUDIO190F PCL 6 Properties
General Sharing Ports Advanced Color Management Security Device Options	General Sharing Ports Advanced Color Management Device Options
TOSHIBA e STUDIO190F PCL6	You can share this printer with other users on your network. To enable sharing for this printer, click Share this printer.
C Shared as:	Do not share this printed Share this printer Share name:
Drivers for different versions of Windows If this printer is shared with users running different versions of Windows then you will need to install additional drivers for it. <u>Additional Drivers</u>	Drives If this printer is shared with users running different versions of Windows, you may want to install additional drivers, so that the users do not have to find the print driver when they connect to the shared printer. Additional Drivers
OK Cancel Apply Help	OK Cancel Apply Help

1. Not shared/Shared as (Do not share this printer/Share this printer) Specify if this printer is displayed or shared with other computers.

For sharing a printer, specify the share name of a printer to be shared. A name specified here appears when other users view the printer information on a network.

2. Additional Drivers... **button** Install additional printer drivers on the system. (See Note 1)



- 1. When sharing a printer on the network, the print driver needs to be installed on the print server only, and other computers will automatically copy and use that driver. For this reason, the print server must be ready with printer drivers for all the operating systems of all the computers that will be sharing the printer.
- 2. If the Windows is set to disable remote access to your PC for the security, the Windows ask you to activate the Network Setup Wizard. Follow the messages to enable the Sharing Tab.

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

Ports Tab

TOSHIBA e-STUDIO190F PCL6 Properties General Sharing Ports Advanced Color Management Security Device Options	<u>1 x</u>
TOSHIBA e-STUDI0190F PCL6 Drink to the following port(s). Documents will print to the first free checked port. Port Description Pinter COM3 Serial Port COM4 Serial Port COM4 Serial Port Else Pinter	
Control of the contr	
OK Cancel Apply	Help

1. Print to the following port(s)

Displays a list of ports that allow printing, their status (description), and printers connected to the ports.

2. Add Port... / Delete Port... button

Adds/deletes a new port or a new network path.

3. Configure Port... button

Configure the port that is selected. On a parallel port, wait time (in seconds) for retransmission is specified.(See Note 1)

4. Enable bidirectional support

This setting enables reception of configuration data and status data from the printer.

5. Enable printer pooling

Printer pooling allows data sent to one logical printer to be received and printed by two or more printers. With printer pooling enabled, a transmitted printing job is output to the first printer that is ready for printing.



1. Specify the time (seconds) waiting for the printer to be ready for printing. If the printer is not ready for printing after the specified time has elapsed, an error message is displayed. If a timeout error occurs frequently upon printing a large size document, specify a larger value here.

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

Advanced Tab

🐔 TOSHIBA e-STIIDIO190F PCI & Properties	2 X
General Sharing Ports Advanced Color Management Security Device Options	
O Available from 1200 AM	
2 Priority: 1	
5 • Spool print documents so program finishes printing faster	
C Start printing after last page is spooled	
Start printing immediately	
6 C Print directly to the printer	
(8) ✓ Print spooled documents first	
(Q) □ Keep printed documents	
10 🗹 Enable advanced printing features	
Printing Defaults Print Processor Separator Page	
(1) (2) (3)	
OK Cancel Apply	Help
UK Lancel Apply	Нер

1. Always available/Available from

Specify the operating schedule for a printer. Selecting **Available from** allows specifying an available operation time.

2. Priority

Specify the priority in printing. Priority is adjustable from 1 to 99. Documents of higher priority are printed before those of lower priority.

3. Driver

Displays the printer driver type. Specify the printer being used or a printer model that can be emulated with the printer being used.

4. New Driver... button

Updates or modifies the printer driver.

5. **Spool print documents so program finishes printing faster** Specify the method of sending a document from the program to the printer.

6. Print directly to the printer

Specify that the document should be sent directly to the printer device and not spooled. Use this if you cannot print using either of the print spooling options.

7. Hold mismatched documents

This feature is not available on your machine.

8. Print spooled documents first

Always prints spooled documents first regardless of printing priority.

9. Keep printed documents

After printing, documents are kept in the queue. The documents are allowed to be reprinted directly from the queue regardless of the status of an application.

Continued on the next page...

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

10. Enable advanced printing features

Enables advanced printing features. Optional printer features (page ordering, booklet printing, numbering on sheets) are enabled. These features can be disabled if a problem occurs due to incompatibility. Disabling the features may also disable the printing options.

11. Printing Defaults... button

Specifies standard (default) values for the properties (print settings) specifiable for each user. If a local printer is shared, the settings here are used as printing defaults for other users.

Refer to "Configuring the Printer Driver Settings (User)" for detailed settings. (See page 62)

12. Print Processor... button

Specify a print processor and data type to be used for printing.

The processor and data type define operations of printers under Windows 2000/Windows XP/Windows Server 2003.

Usually no change is required in the settings. Use of a printer from some applications, however, may require changes in the settings.

13. Separator Page... button

This feature is not available on your machine.

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

Security Tab

Ceneral Sharing Name Administrator CREATOR C CREATOR C C CREATOR C C CREATOR C C CREATOR C C CREATOR C C C CREATOR C C C C C C C C C C C C C C C C C C C	DID190F PCL6 Properties Ports Advanced Color Management Security Device Op (TOSHIBA-UAMKUB4V-Administratore) wNER (TOSHIBA-UAMKUB4VPower Users)	itions Agd <u>R</u> emov	? ×	
<u>P</u> ermissions: Print Manage Printe Manage Docur	: ents	Allow Deny		
2 Advanced	OK Cancel	<u>A</u> pply He	elp	

Displays a list of users and groups to whom printer access is assigned to. A list of standard permissions for each group or user is displayed. Check or uncheck the checkboxes for permitting or prohibiting access. Gray checkbox indicates the permission inheritance.

1. Add... / Remove button

Add or delete a user or group from the list.

2. Advanced... button

Specify access to a printer, audit, and owner. (See Note 1 and 2)

Access Control Settings for TOSHIBA e-STUDIO190F PCL6					<u>?×</u>		
F	Permissions Auditing Owner						
	Permission Entries:						
	Type Name Permission Apply to			Apply to			
	Allow	CREATOR OWNER	Manage Doc	Documents only			
	🔊 Allow	Everyone	Print	This printer only			
	🔊 Allow	Administrators (TOSHIB	Manage Print	This printer only			
	🔊 Allow	Administrators (TOSHIB	Manage Doc	Documents only			
	🔊 🔊 Allow	Power Users (TOSHIBA	Manage Print	This printer only			
	🔊 🔊 Allow	Power Users (TOSHIBA	Manage Doc	Documents only			
	Add.	. <u>R</u> emove	View/Edit				
	This permiss	sion is defined directly on this	object. This permi	ssion is inherited by child obje	cts.		
			OK	Cancel App	y		

- 1. Windows 2000 provides the capability of managing access to various objects (e.g. printers) by users.
- Refer to the Windows 2000 documentation for details on access permission, audit, and owner.
 The Security Tab is not shown in Windows XP/Windows Server 2003.

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

Device Options Tab



1. SD Memory Card (256MB or more) Select Installed if the SD Memory Card (256MB or 512MB) is installed.

2. Auto Configuration button

When your machine is connected onto the network (TCP/IP), click this button to set the Options Configuration automatically.

3. Number of Paper Trays

Select the number of available paper trays if optional Paper Feed Module(s) are installed.

4. Edit URL... button

Edit the URL address that will be displayed when clicking the Support Contacts (W)... button of the Paper Tab (see page 64).

Windows 2000/Windows XP/Windows Server 2003 (Administrator)

URL Support	Information 🔀
URL 1 Title:	Support
URL 1:	
Contact 1:	
URL 2 Title:	Supplies
URL 2:	
Contact 2:	
URL 3 Title:	Sales
URL 3:	
Contact 3:	
URL 4 Title:	Network Support
URL 4:	
Contact 4:	
	OK Cancel

URL Title

Enter an applicable URL title.

URL

Enter the URL address to be associated to the

Support Contacts (W)... button of the Paper Tab. (See page 64)

Contact

Enter applicable contact information (i.e.: The email address of the contact person)

NOTE

1. **Device Options** Tab specifies device-specific settings and settings of optional devices. Make sure that the **Device Option Tab** is set properly before printing a document, or printing problems may occur.

Windows 2000/Windows XP/Windows Server 2003 (User)

Changes the printer settings. Display the printer settings dialog box by performing the steps below:





Select the printer model in the name list box.

Right-click on the desired printer icon and select the Properties... menu or click

the Preferences button in the **Print** dialog box.

The printer properties dialog box appears. Click the desired tabs of the dialog box and specify the properties. (See Note 1) (See pages 63 - 73)

NOTE

 In Windows 2000/Windows XP/Windows Server 2003, setting of the properties depends on the logon accounts. This section describes properties to be specified by a user, upon executing a print operation in an application. See "Configuring the Printer Driver Settings (Administrator)" for details on administrator (system manager) properties. (See page 53)

All Windows Common Settings

Paper Tab



1. Paper Size

Select a document size.

2. Copies (1-999)

Specify the number of copies to be printed. If the number of copies to be printed can be specified within the application, indicate one copy here and specify the number of copies in the Print dialog box of the application.

3. Orientation

Specifies how the document is positioned on the page. **Portrait** orients the print vertically. **Landscape** orients the print horizontally. **Rotate** orients the printing document(s) direction by 180 degrees.

4. Output Size

Specifies the paper size to use. The various paper sizes listed match those supported by your printer.

5. Zoom (25-400%)

Specify an enlargement or reduction percentage when printing documents. If enlargement/reduction can be set within the application, indicate 100% here and specify the enlargement/reduction percentage in the Print dialog box of the application.

Note:

If the **Resolution** on the Quality Tab is set to **600 dpi** or **1200 dpi**, the zoom ratio is changed depending on the paper size.

Legal : 25 - 390% Others : 25 - 400%

6. Image Position

Specify the image position when setting the zoom ratio.

7. Paper Type

Select the Paper Type you want to use.

All Windows Common Settings

8. Paper Source

Specify where the paper you want to use is located in the device. If you choose **Auto Tray Selection**, the printer driver will automatically select an appropriate tray according to the Paper Size selected. If the matching paper size is not found, the printer drive will select the Tray 1.

9. Print Properties Status Icons

Show the current selections for the following properties.

- Paper Style (Output Tab)
- N in 1 (Output Tab)
- Sort (Output Tab)
- Watermark
- Overlay

10. Status Monitor **button**

Recalls the Network Status Monitor.

11. Support Contacts (W)... button

Open the **Support** window. The URL address(es) will be displayed if they were entered in the Device Options Tab. Click the -> Go button to open the Web page.

Support		×
URL 1 Title:	Support	
URL 1:		-> Go
Contact 1:		
URL 2 Title:	Supplies	
URL 2:		-> Gio
Contact 2:		
URL 3 Title:	Sales	
URL 3:		-> Go
Contact 3:		
URL 4 Title:	Network Support	
URL 4:		⇒ Go
Contact 4:		
		OK

All Windows Common Settings

Output Tab



1. Paper Style

Select duplex printing for printing on both sides of the paper.

You can select the printing style among 1-Side/2-Sided (Long Edge) /2-Sided (Long Edge Margin) /2-Sided (Short Edge) /2-Sided (Short Edge Margin).

Binding Position

Select the binding side (Long Edge/Short Edge) for duplex printing.

Binding Margin

Select the binding margin upon duplex printing. The width of the binding margin is specified on the device.

2. Booklet

Formats output in order so document can be folded and/or saddle stitched like a book.

3. N in 1

Specify the layout pattern for printing multiple documents on a single sheet of paper. If you select an item other than "None," N in 1 order is displayed, allowing you to select the following patterns.



All Windows Common Settings

4. Poster

Specify the layout pattern for Poster mode printing on the multiple sheet of paper.



5. Sort

Select whether to Stack or Sort when printing multiple copies.





Advanced		<u>?×</u>
P 1 ⊏ Print 2 ⊽ Print 3 ⊑ Chec	<u>All Text as Black</u> Blank Pages k <u>P</u> rint Status Prior to Printing	
4 C <u>o</u> pies	Printer Controlled	•
5 🗖 Front Cover		
Lo <u>v</u> er Pages Paper <u>S</u> ource	Blank AutoSelect Tray	<u> </u>
⑥ □ Bac <u>k</u> Cover	,	
Cover Pages	Blank	7
Pap <u>e</u> r Source	AutoSelect Tray	~
OK	Cancel	

- 1) **Print All Text as Black** All colored text is printed as solid black
- 2) **Print Blank Pages** Select whether the blank pages are printed.
- 3) Check Printer Status Prior to Printing

Check the status of the printer connected to your network before printing the data.

All Windows Common Settings

4) Copies (Printer controlled / Printer Driver controlled)

When printing a large amount of data with sort mode, the machine might not be able to print due to lack of memory capacity.

In this case, select **Printer Driver controlled**, as sorting is processed inside of the printer driver. However, this mode may take more time to print.

5) Front Cover

Set to insert a blank or printed page as the Front Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

6) Back Cover

Set to insert a blank or printed page as the Back Cover. Specify where the paper you want to use is located in the device. If you choose Auto Tray Selection, the printer driver will automatically select an appropriate tray according to the Paper Size selected.

All Windows Common Settings

Quality Tab



1. Graphics Mode

Vector

Treat line information as graphic data.

Raster

Treat all information as Bitmap data.

2. Halftone

Select Normal/Fine/Coarse.

3. Resolution

Select the print resolution (300 dpi / 600 dpi / 1200dpi Enhanced). (See Note 1)

4. Density

Defines the darkness of the dots placed on the paper.

5. Toner Save

This function is only available if Graphics Mode is set to "Raster" it will print using less toner, thus, saving toner consumption when you are printing many drafts prior to printing the final document.



1. dpi (dots per inch) represents the number of dots contained in one inch. The larger the value, the higher the resolution would be.

All Windows Common Settings

Fonts Tab

Status Monitor About Bestore Defaults OK Cancel	TOSHIBA e-STUDIO190F PCL6 Printing Pr Poper Output Quality Fonts Watermark Letter > Letter (100%)	Overlay Secure True Type Mode True Type Mode Download as InueType Download as Bitmap Image	?x	
	Profile Name: DEFAULT Status Monitor	Q IV Use Printer TrueType fonts About Bestore Defaults OK Cancel		

1. TrueType Mode

Download PC fonts (TrueType) as bitmap Image or as TrueType font.

2. Use Printer TrueType fonts

Select whether the printer TrueType fonts are used or not.

All Windows Common Settings

Watermark Tab



1. Watermark

To enable the watermark feature, check Watermark.

2. Message

Displays the selected text. (CONFIDENTIAL, COPY, etc.)

3. Add Delete button

Add or delete watermark messages.

4. Text

Input text that you want to add or update as the watermark.

5. Update button

Update the text of the existing watermark message.

6. Fonts

Select the text font.

7. Style

Select the font style.

8. Size

8 - 400 point.

9. Angle

Select the text angle.

10. **Density** Varies from light to dark.

All Windows Common Settings

11. Transparent Text

Use watermark print as transparent text.

12. As Outline Only

Print the watermark character as an outlined image.

13. First Page Only

Use watermark only for the first page.

14. Position

Specify inch or metric units for adjustment.

15. Center button

Position the watermark relative to center of the document.

All Windows Common Settings

Overlay Tab



1. **Print Using Overlay File** Set overlay function.

2. Make Overlay File

When making an overlay file, check this box, then type a filename in the Overlay List box.

3. Overlay List

Select the file to be used for the overlay.

4. File Delete button

Click the File button to set the directory to save the overlay file.

Click the Delete button to delete the overlay file.
Configuring the Printer Driver Settings

All Windows Common Settings

Secure Tab



1. Mailbox (Available if an SD Memory Card (256MB or 512MB) is installed.) Check this box and enter the User ID (up to 8 digits) if storing the print data into the mailbox of the machine.

Note:

Turning the Power Switch OFF while a print file is being stored (DATA indicator lamp flashing) into the Mailbox may cause all files in it to be lost.

2. Secure Mailbox (Available if an SD Memory Card (256MB or 512MB) is installed.)

Check this box, enter the User ID (up to 8 digits) and the password (4 digits) if storing the print data into the secure mailbox of the machine.

Note:

Turning the Power Switch OFF while a print file is being stored (DATA indicator lamp flashing) into the Secure Mailbox may cause all files in it to be lost.

3. Dept. Counter Mode On

Check this box and enter the department code if your administrator requires departmental codes in order to print.

Print Operation

Printing from Windows Applications

l

If the printer driver is installed properly and a printer is selected as the default printer (see Note 1) in the printer setup, printing can be accomplished from any Windows application with simple operations.

To print from most Windows applications, use the **Print...** command in the **File** menu. Selecting the **Print...** command typically displays the following Print dialog box:

Print		?)	×
Printer <u>N</u> ame: Status: Type:	TOSHIBA e-STUDIO190F PCL6 Idle TOSHIBA e-STUDIO190F PCL6	Properties	
wnere: Comment:	19_164.1.1.10	I Print to rije	
Page range	unbers and/or page ranges y commas. For example, 1,3,5–12	Copies Number of gopies:	
Print <u>w</u> hat: P <u>ri</u> nt:	Document 💌 All pages in range 💌	Zoom Pages per sheet: 1 page Scale to paper size: No Scaling	
Options]	OK Cancel	

After selecting the page range to be printed and the number of copies, click the OK button to **start** printing.

While documents are being printed, a printer icon appears in the System Tray near the clock on the bottom right hand corner of the screen. The icon disappears when printing is completed.

You may double-click on the printer indicator in the system tray to open and verify the details of the print queue in the spooler.



- 1. Follow the steps below to set a default printer:
 - a) Click the Start button and select Printers in the Settings menu.
 - b) Select the printer icon in the window and select **[Set As Default]** in popup menu by rightclicking it. Then the check mark is displayed.

Printing on Network

When sharing a printer by connecting two computers via a crossover cable or using a hub, a connection among computers must be established. (See Note 1 and 2)

Establishing a connection among computers can be verified by displaying the connected computers in Network Neighborhood on the desktop.

The settings for printer sharing are specified by performing the following steps:

Printer Server (PC connected to a printer)

1	Install the printer driver on the computer to be connected to the machine.
2	Click the Start button, select Settings , and then click Printers .
3	Right-click on the desired printer icon and select [Sharing] in the popup menu.
4	Select Shared As in the properties dialog box.
5	Click the OK button.

Upon completing this setting, the shape of the icon changes indicating that the printer is shared.



- 1. Refer to the manual for the network card and Windows users' guide for connections among computers.
- 2. On Windows 98/Windows Me, a computer connected to a printer must be set up to allow printer sharing by performing the following operations:
 - a) Double-click on **Network** in control panel, and then click File and Print Sharing... button in the **Network Configuration** tab.
 - b) Check **[I want to be able to allow others to print to my printer(s).]** in the File and Print Sharing dialog box.

Print Operation

Printing on Network

Remote (PC that uses another computer's printer)

1	Click the Start button, select Settings , and then Printers .
2	Double-click Add Printer in the printers folder. The Add Printer Wizard appears. Click the <u>Next</u> button.
3	Select Network Printer . Click the <u>Next</u> button.
4	Specify the other computer's printer by entering the network path.
	Then, complete the installation following the instructions

of the Add Printer Wizard.

The operations above enables the output from the remote computer to a printer connected to the printer server.

Available Paper Type and Paper Size

Paper Type	Paper Size	Print from Paper Tray	Print from Sheet Bypass	Print from 2nd Paper Tray (Optional)	Print by 2-Sided Print Mode
Plain Paper	Letter	Yes	Yes	Yes	Yes
	Legal	Yes	Yes	Yes	Yes
	Invoice	No	Yes	No	No
	FLS1	No	Yes	No	No
	FLS2	No	Yes	No	No
	A4	Yes	Yes	Yes	Yes
	B5	No	Yes	No	No
	A5	No	Yes	No	No
	User Size	No	Yes	No	No
Thick Paper	Letter	No	Yes	No	No
	Legal	No	Yes	No	No
	Invoice	No	Yes	No	No
	FLS1	No	Yes	No	No
	FLS2	No	Yes	No	No
	A4	No	Yes	No	No
	B5	No	Yes	No	No
	A5	No	Yes	No	No
	User Size	No	Yes	No	No
Cotton Paper	Letter	Yes	Yes	No	No
	Legal	Yes	Yes	No	No
	Invoice	No	Yes	No	No
	FLS1	No	Yes	No	No
	FLS2	No	Yes	No	No
	A4	Yes	Yes	No	No
	B5	No	Yes	No	No
	A5	No	Yes	No	No
	User Size	No	Yes	No	No
Transparency	Letter	Yes	Yes	No	No
	A4	Yes	Yes	No	No
Label	Letter	No	Yes	No	No
	A4	No	Yes	No	No
Envelope	#9	No	Yes	No	No
	#10	No	Yes	No	No
	Monarch	No	Yes	No	No
	DL	No	Yes	No	No
	C5	No	Yes	No	No

Available Paper Weight and Capacity

	Paper Type	Print from Paper Tray	Print from Sheet Bypass	Print from 2nd Paper Tray (Optional)
Paper Weights	Plain Paper	16 –28 lb	16 –28 lb	16 –28 lb
		(60 – 105 g/m ²)	(60 – 105 g/m ²)	(60 – 105 g/m ²)
	Thick Paper	No	29 –44 lb (106 – 165 g/m ²)	No
	Envelope	No	24 lb (90 g/m ²)	No
Paper Capacity	Plain Paper 20 lb (75 g/m ²)	250 sheets	1 sheet	550 sheets
	Transparency	20 sheets	1 sheet	No
	Label	No	1 sheet	No
	Envelope	No	1 sheet	No

Transparencies and Labels

You may also print on high quality labels and transparencies that are made specifically for Laser printers. We recommend using the following types.

Paper Type	Paper Size	Recommended Type
Transparency	Letter/A4	3M CG3300
Label	Letter	Avery 5160 – 5163, Avery 5660 – 5663
	A4	Avery L7159 –L7164

- To avoid damaging the printer, do not use transparencies made for Inkjet printers.
- Do not use transparencies that have already been fed through the printer once.

Note: The labels must completely cover the backing material as shown below.



Labels cover the entire backing material



The backing material is exposed.

Envelopes

It is recommended that you purchase only high quality envelopes with diagonal seams as shown below.



High quality envelopes have the following characteristics:

- A thin, sharply creased leading edge.
- Paper weight of 24 lb (90 g/m²).
- Flat, free of curls, wrinkles, nicks, etc.

It is not recommended that you use envelopes with any of the following characteristics (using these may result in paper jams).

- Irregularly shaped envelopes
- · Envelopes with curls, wrinkles, nicks, twists, dog-ears or other damage
- Envelopes with side seam construction
- Highly textured envelopes, or with extremely shiny surfaces
- · Envelopes that seal by removing a peel-off strip
- · Envelopes with more than one flap to be sealed
- Self-adhesive envelopes
- · Envelopes that are baggy or not sharply creased
- Embossed envelopes
- Envelopes that have previously been printed with a laser printer
- Envelopes that have been previously printed inside



Envelopes

Do not attempt to print on any of the following types of envelopes. These may cause damage to your printer.

- Envelopes with clasps, snaps or tie strings (see Figure 1)
- Envelopes with transparent windows (see Figure 2)
- Envelopes that will melt, discolor, scorch, offset or release hazardous emissions when exposed to 200
 °C (392 °F) for 0.1 second
- Envelopes that use encapsulated types of adhesive that do not require moistening but rely on pressure to seal them



Always test a sample of the envelopes you are thinking of buying. Confirm that the envelope performs acceptably.

For best printing results

- Avoid printing in high humidity.
 High humidity may cause the envelope to curl and pick up excess toner.
 High humidity may also cause the envelope to seal.
- Envelope storage is very important. Store them away from moisture and humid air, where they can lay flat and their edges will not be bent or damaged. The humidity should not exceed 70% RH.

Loading the Envelopes

Sheet Bypass only



opening on the shorter edge)

Printer Specifications

Printing Speed	19 sheets/minute (Letter size plain paper, simplex printing) 18 sheets/minute (A4 size plain paper, simplex printing)
Resolution (dots per inch)	300 x 300, 600 x 600, 1200 (Equivalent) x 600
Interface	USB 1.1 Ethernet (10Base-T/100Base-TX)
Emulation	PCL6 Emulation
Applicable OS	Windows 98, Windows Me, Windows NT 4.0, Windows 2000, Windows XP, Windows Server 2003
Printer Work Memory	20 MB

Troubleshooting

Printing Operation Failure

If the printing operation fails, check the following items first:

- Whether the connecting cable (USB or Ethernet LAN cable) is properly connected.
- Power of the device is turned ON.
- Paper is loaded properly in the device.
- An error message is not displayed on the device.

The above points can be verified by printing a test page. Refer to the following pages for the procedures on test page printing:

Windows 98/Windows Me	[General Tab]	(See page 37)
Windows NT 4.0	[General Tab]	(See page 45)
Windows 2000/Windows XP/Windows Server 2003	[General Tab]	(See page 54)

Document is Not Printed Correctly

Problem	Possible Cause / Solution(s)
Characters are not printed in the correct positions or the characters near the edges of the page are missing.	 Check and specify the paper size and orientation settings in the printer driver to coincide with the application. The characters are outside the printing area of the machine.
The font type is incorrect.	 Check whether the selected font is installed on the PC. Select "Use Printer TrueType fonts" on the Font tab of the Printer Driver Properties dialog box.
Printing stops in the middle of the run.	 Check whether there is a Network problem.
Although print data is transferred to your machine, it does not print.	 Make sure the printer is online. Make sure the machine is not in the Shutdown Mode. Press ENERGY SAVER key to return to standby mode. See the Operator's Manual for Copier & Network Scanner for details. Make sure the USB printer cable is connected properly. Restore the power if the ON LINE LED is Off even if the USB printer cable is connected.
The Print file(s) are not printed from Windows 98 or Windows Me.	 Printer Busy error may occur when large quantities of print files are transferred from Windows 98 or Windows Me. In this case, the print files are deleted. Retry to print the files.

Appendix

Printing Area

When printing to the device, there is a 0.2 inches (5.0 mm) non-printable margin on all 4 sides.



Appendix

Symbol Table

No.	Symbol Set
0	Legal (HP Legal)
1	ISO 4 (United Kingdom)
2	ISO 6 (ANSI, ASCII)
3	ISO 11 (Swedish/French)
4	ISO 15 (Italian)
5	ISO 17 (Spanish)
6	ISO 21 (German)
7	ISO 60 (Norwegian, v.1)
8	ISO 69 (French)
9	ISO 8859/2 Latin 2
10	ISO 8859/2 Latin 5
11	PC-8 (IBM-8, Code Page 437)
12	PC-8 DN (Denmark/Norway)
13	PC-850 (IBM-850)
14	PC-8 TK (Code Page 437T)
15	PC-852 Latin 2
16	Roman 8
17	Desk Top
18	ECMA 94 (Latin 1)
19	Macintosh
20	Math 8 (HP Math 8)
21	Microsoft Publishing
22	Pi Font (HP Pi Font)
23	PS Math
24	PS Text
25	Ventura International
26	Ventura Math
27	Ventura US
28	Windows
29	Windows 3.1
30	Windows 3.1 Latin 2
31	Windows 3.1 Latin 5
32	Symbol, Windows 3.1
33	Wingdings, Windows 3.1
34	Baltic (PC-1004)
35	Baltic (PC-775 Baltic)

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