TOSHIBA

TOSHIBA Barcode Printer

Printer Driver

Operating Manual

26th Edition:

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Toshiba Tec Corporation

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Introduction

Thank you for purchasing the TOSHIBA barcode printer.

This document gives you a general description of the installation, operation, and functions of the TPCL*-enabled printer driver (BDRV-WBX8-Z31).

The latest printer driver can be downloaded from Toshiba Tec barcode system website at the following URL:

http://www.toshibatec.com/download_overseas/printer/printer_driver/

* TPCL: Abbreviation of TEC Printer Control Language

1. General Description

1.1 Features

This product is a printer driver designed for TOSHIBA barcode printer and used under Windows 10, Windows 11, Windows Server 2012, Windows Server 2016 and Windows Server 2019.

- Enables easy printing from Windows applications.
- Enables a use of the barcode printer just like an office-use laser or ink jet printer, even if you do not know barcode printer specific commands.
- Enables easy setup of the label size, sensors, cut operation, and other functions unique to the barcode printer.
- The host PC is connectable to the printer with RS-232C, Parallel, USB, LAN or Bluetooth.
 - **Note**: Usable interface type varies depending on the printer models. For details, refer to the Owner's Manual of the printer. Bluetooth and IrDA are not supported.
- The barcode printer's built-in fonts can be used as well as Windows TrueType fonts.
- Barcodes and 2D codes can be printed only by registering a desired code as a font in the printer driver.

1.2 Applicable printers

B-452-R	B-452-TS-R	B-SX5T	B-SX5T-TS12-QQ/QQ-US/QP,
		(305 dpi)	B-SX5T-TS22-QQ/QQ-US/QP/QM-R
B-852-R	B-852-TS22-QQ/QP-R	B-SX5T-C	B-SX5-TS12-CN,
		N (305 dpi)	B-SX5T-TS22-CN/CN-R
B-EP2DL-G	B-EP2DL-GH20/GH30/GH40-QM-R	B-SX6T	B-SX6T-TS12-QM-R
		(305 dpi)	
B-EP4DL-G	B-EP4DL-GH20/GH30/GH40-QM-R	B-SX8T	B-SX8T-TS12-QM-R
		(305 dpi)	
B-EV4	B-EV4D-G, B-EV4T-G	B-EX4T1	B-EX4T1-GS12-QM/CN-R
(203 dpi)		(203 dpi)	
B-EV4	B-EV4D-T, B-EV4T-T	B-EX4T1	B-EX4T1-TS12-QM/CN-R
(300 dpi)		(305 dpi)	
B-SA4T	B-SA4TM-GS12-QM-R,	B-EX4T2	B-EX4T2-GS12-QM/CN-R
(203 dpi)	B-SA4TP-GS12-QM-R	(203 dpi)	B-EX4D2-GS12-QQ/QM-R
B-SA4T-CN	B-SA4TM-GS12-CN-R,	B-EX4T2	B-EX4T2-TS12-QM/CN-R
(203 dpi)	B-SA4TP-GS12-CN-R	(300 dpi)	
B-SA4T	B-SA4TM-TS12-QM-R,	B-EX4T2	B-EX4T2-HS12-QM/CN-R
(300 dpi)	B-SA4TP-TS12-QM-R	(600 dpi)	
B-SA4T-CN	B-SA4TM-TS12-CN,	B-462-R	B-462-TS22-CN-R
(300 dpi)	B-SA4TP-TS12-CN		
B-SV4	B-SV4D-QM/QM-R/CGE/CGE-R/CN/	B-FV4	B-FV4T-GS12/GS14/GS16-QM-R,
	QQ-US	(203 dpi)	B-FV4T-GS14/GS16-CN-R,
	B-SV4T-QM-R		B-FV4D-GS12/GS14/GS16-QM-R,
			B-FV4D-GS14/GS16-CN-R,
			B-FV4D-GH14-QM-R,
			B-FV4D-GL14-QM-R
B-SX4T	B-SX4T-GS10-QQ/QQ-US/QP,	B-FV4	B-FV4T-TS12/TS14/TS16-QM-R,
(203 dpi)	B-SX4T-GS20-QQ/QQ-US/QP/QM-R	(300 dpi)	B-FV4T-TS14/TS16-CN-R,
			B-FV4D-TS12/TS14/TS16-QM-R,
			B-FV4D-TS14/TS16-CN-R
B-SX4T-CN	B-SX4T-GS10-CN,	B-FP3D	B-FP3D-GH30-QM-R
(203 dpi)	B-SX4T-GS20-CN/CN-R	(203 dpi)	B-FP3D-GH40-QM-R
			B-FP3D-GS30-QM-R
			B-FP3D-GS40-QM-R
B-EX6T1	B-EX6T1-GS12-QM/CN-R	B-EX6T3	B-EX6T3-GS12-QM/CN-R
(203 dpi)		(203 dpi)	
B-EX6T1	B-EX6T1-TS12-QM/CN-R	B-EX6T3	B-EX6T3-TS12-QM/CN-R
(305 dpi)		(305 dpi)	
B-EX4T3	B-EX4T3-HS12-QM/CN-R	DB-EA4D	DB-EA4D-GS10-QM-R
(600 dpi)			DB-EA4D-GS12-QM-R
BA410T	BA410T-GS12-QM/CN-S	BA420T	BA420T-GS12-QM/CN-S
(203 dpi)		(203 dpi)	
BA410T	BA410T-TS12-QM/CN-S	BA420T	BA420T-TS12-QM/CN-S
(300 dpi)		(300 dpi)	

B-FP2D (203 dpi)	B-FP2D-GH30-QM-S B-FP2D-GH50-QM-S B-FP2D-GH30-CN-S B-FP2D-GH50-CN-S	BV400 (203dpi)	BV410D-GS02-QM-S BV420D-GS02-QM-S BV420D-GL02-QM-S BV420D-GS02-CN-S BV410T-GS02-QM-S BV410T-GS14-QM-S BV420T-GS02-QM-S BV420T-GS14-QM-S BV410T-GS02-CN-S BV410T-GS06-CN-S BV420T-GS02-CN-S
BV400 (300dpi)	BV410D-TS02-QM-S BV420D-TS02-QM-S BV420D-TS02-CN-S BV410T-TS02-QM-S BV410T-TS14-QM-S BV420T-TS02-QM-S BV420T-TS14-QM-S BV410T-TS02-CN-S BV410T-TS06-CN-S BV420T-TS02-CN-S		

1.3 Notation

- Names of menus, screens, icons, buttons, tabs, and items are enclosed in square brackets ([]). For example: Click [OK].
- Wordings shown on the computer monitor and the LCD message display of your printer are enclosed in double quotation marks (" ").
 For example: "ONLINE".
- Titles of the chapters and sections to be referred to are expressed in bold and Italic. For example: Refer to **Section 1.1 Features.**

1.4 Screens used in this document

Screens shown in this document are examples used for explaining operations. Unless otherwise specified, an operation system used in this document is Windows. Note that the screens shown may differ depending on your usage environment and conditions.

1.5 Trademark and copyright

Microsoft and Windows are trademarks of Microsoft Corporation in the United States and other countries. Other company and product names may be registered trademarks or trademarks of others. Each company's registered trademarks and trademarks are not marked with TM or ®. This document uses the following abbreviations.

- Microsoft® Windows® 10 Enterprise, Microsoft® Windows® 10 Professional, Microsoft® Windows® 10 IoT Enterprise and Microsoft® Windows® 10: Windows 10
- Microsoft® Windows® 11 Home, Microsoft® Windows® 11 Pro, Microsoft® Windows® 11 Enterprise, Microsoft® Windows® 11 Education and Microsoft® Windows® 11: Windows 10
- Microsoft® Windows® Server 2012 Standard Edition, Microsoft® Windows® Server 2012 Datacenter Edition, Microsoft® Windows® Server 2012 R2 Standard Edition and Microsoft® Windows® Server 2012 R2 Datacenter Edition: Windows Server 2012
- Microsoft® Windows® Server 2016 Standard Edition and Microsoft® Windows® Server 2016, Datacenter Edition: Windows Server 2016
- Microsoft® Windows® Server 2019 Standard Edition, Microsoft® Windows® Server 2019 Datacenter Edition and Microsoft® Windows® Server 2019 Essentials Edition: Windows Server 2019

1.6 Operational conditions

This product can be used under the following system requirements.

1.6.1 Operation system

Windows 10 (32 bit/64 bit), Windows 11, Windows Server 2012, Windows Server 2016 or Windows Server 2019

1.6.2 Hardware

A DOS/V (IBM AT compatible) machine running the above Windows operation system must be used along with the following mandatory or recommended requirements.

1.7 Cautions for installation (IMPORTANT)

Be sure to read the following cautions before using this product.

• When you are going to install an upgraded version of the TEC printer driver, you must first uninstall the older version in advance. For how to uninstall the printer driver, refer to **Section 2.5 Uninstalling the Printer Driver.**

Failure to do so may cause unstable printing operations due to the influences of the files and registry related to the old version remaining in the system. Follow the procedure in **Section 2.5 Uninstalling the** *Printer Driver*, and the files and registry related to the printer driver will be deleted from the system.

- Note: This printer driver uses common program for all applicable printer models.
 - Even if the printer model is different, TPCL printer driver of different version cannot be used on the same PC.
 - When installing TPCL printer driver for a new model on the PC in which the TPCL printer driver of different version for another printer model has been already installed, the existing printer driver needs to be deleted.

• Be sure to set [Printer Status Monitoring] as shown in the table below. The status monitor has been disabled as default. Wrong setting disables proper printing.

■ Configuration for the Status Monitor

When [Printer Status Monitoring] is set to other than "Disabled", it is possible to monitor the printer status from the host computer. When this feature is not supported or is unnecessary, choose "Disabled" for [Printer Status Monitoring]. Doing so reduces the load on the printer driver and increases the print efficiency.

_					0	: Any setting	X: Disabled
	Interface						
	RS-232C ^{*1} (Serial interface cable)	nterface Conforming to IEEE1284		USB LAN/WLAN 10BASE-T/100BASE-T			Bluetooth
Conditions Printer model	_	Other than the right column	CENTRO.MODE=ECP PLUG&PLAY=ON	Ver1.1 /2.0	Standard TCP/IP Port(RAW)	Other Port	_
B-SX6T (305 dpi) B-SX8T (305 dpi)	0	Х	Not supported	0	0	х	х
B-EX4T1 (203 dpi) B-EX4T1 (305 dpi)	0	х	Not supported	0	0	х	х
B-EX4T2 (203 dpi) B-EX4T2 (300 dpi) B-EX4T2 (600 dpi) B-EX4D2 (203 dpi)	0	Х	Not supported	0	0	х	х
B-EX6T1 (203 dpi) B-EX6T1 (305 dpi)	0	х	Not supported	0	0	x	х
B-EX6T3 (203 dpi) B-EX6T3 (305 dpi)	0	х	Not supported	0	0	х	х
B-EX4T3 (600 dpi)	0	х	Not supported	0	0	х	х
B-EV4 (203 dpi)	х	х	Not supported	х	х	х	х
B-EV4 (300 dpi)	х	х	Not supported	х	х	x	х
B-FV4 (203 dpi)	х	х	Not supported	х	х	x	х
B-FV4 (300 dpi)	Х	х	Not supported	х	х	х	х
B-EP2DL-G	0	Not supported	Not supported	0	0	Х	0
B-EP4DL-G	Not supported	Not supported	Not supported	0	0	Х	0
B-452-R	0	Х	Not supported	0	0	Х	Х
B-462-R	0	Х	Not supported	0	0	Х	Х
B-852-R	0	Х	Not supported	0	0	Х	Х
B-SA4T (203 dpi), B-SA4T-CN (203 dpi), B-SA4T (300 dpi), B-SA4T-CN (300 dpi)	0	х	Not supported	0	0	x	х
B-SX4T (203 dpi), B-SX4T-CN (203 dpi) B-SX5T (305 dpi), B-SX5T-CN (305 dpi)	0	х	0	0	0	x	х
B-SV4	0	х	Not supported	0	Not supported	Not supported	х
B-FP3D (203 dpi)	Х	х	Х	0	0	Х	0
DB-EA4D	Х	х	Not supported	0	Х	Х	0
BA410T BA420T	0	Not supported	Not supported	0	0	0	0
B-FP2D (203 dpi)	Х	Х	Х	0	0	0	0
BV400 (203 dpi) BV400 (300 dpi)	0	Not supported	Not supported	0	0	0	0

Notes:

1. When RS-232C (Serial interface) is used for connection, it will take time until printing starts. It is recommended to use other interfaces as far as possible.

- 2. Whenever "CENTRO. MODE" is set to "ECP" in the printer system mode, be sure to set "PLUG & PLAY" to ON. And, whenever "CENTRO. MODE" is set to "SPP", be sure to set "PLUG & PLAY" to OFF. ("CENTRO. MODE" and "PLUG & PLAY" have been set to "SPP" and "OFF" as the factory default settings, respectively.) To enable the bidirectional communication, be sure to set "CENTRO. MODE" to "ECP" and "PLUG & PLAY" to "ON". For details of the printer parameter setting, refer to Section 6.2 Parameter Setting on the Printer.
- If printing is performed with the status monitor enabled though this feature is not available or not necessary, delete the print job and disable [Printer Status Monitoring].
- > If you start the status monitor by mistake, close the status monitor and disable [Printer Status Monitoring].
- When the status monitor is used to monitor the printer statuses, do not install more than one printer driver specifying the same output port in one host PC. When more than one printer driver is installed in a PC, disable [Printer Status Monitoring]. Also, when multiple computers connect to the same printer, specify that printer as the shared printer or disable [Printer Status Monitoring].
- When Kanji characters are used as barcode font data, click the [Tool] tab – [Configure] button – [Printer Options], and select "ESC/LF/NUL" for "Control Codes" of "Command Protocol".

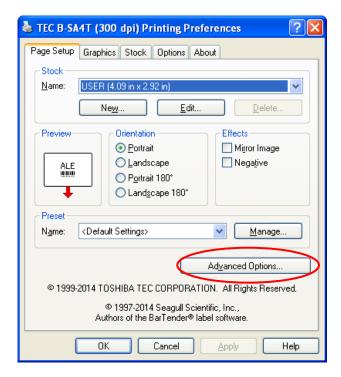
Barcode font types that accept Kanji data: PDF417, MicroPDF417, Data Matrix, MaxiCode, QR code

The default setting of "Control Codes" is "Standard". Be sure to change this setting when you print Kanji characters as barcode data, otherwise an error will result.

Printer Options 🛛 🔀					
Printer Options Automatic Status <u>Response</u> Include Job Information Check Command Sequence					
Command Protocol <u>Control Codes:</u> <u>ESC7LF7NUL</u>					
Start of Command: <esc> < 27 End of Command: <lf> < 10 End of Line:</lf></esc>					
End of Line: <nul> < 0</nul>					
OK Cancel Help					

 The default setting of the function character is a caret "^" (5EH). When using barcode fonts like QR code and if you want to specify a function character as barcode data, you need to specify two function characters consecutively.

For example, when a caret "^" is used as the function character, enter "^ $^{\Lambda}$ as barcode data.



? 🗙 **Advanced Options** Printing Position User Commands Driver Options User Commands Start of Job Start of Label End of Label End of Job Eunction Character: ¥ Insert ► The funct used to insert control characters in both user commands and bar code fonts. ΟK Apply Cancel Help

Insert Di	sk	
O.	Please insert the Compact Disc labeled 'TEC Drivers Disk' into your CD-ROM drive (D:) and then click OK. You can also click OK if you want files to be copied from an alterniate location, such as a floppy disk or a network server.	OK Cancel
Files Ne	eded	
	The file 'tt#base.ddz' on TEC Drivers Disk is needed.	OK Cancel
	Type the path where the file is located, and then click OK.	
	Copy files from:	Browse
		<u>D</u> 104436

Click the [Page Setup] tab, [Advanced Options], and specify "Function Character". This is used when binary data is specified as barcode data.

- When using this product for B-EP2DL-G or B-EP4DL-G, set the printer mode to "TPCL-LE", "TPCL-LE1", "TPCL" or "TPCL1" by using the Printer Setting Tool or the keys on the printer. For the key operations, refer to the B-EP Series Key Operation Specification.
- When a device font is used, the actual print result looks different from the print preview. Print the label format, and check and adjust the label format.
- RFID fonts are not supported.
- The stock sizes, A4, A5, and A6, shown in this product do not define the paper size in DEVMODE (DMPAPER_A4, DMPAPER_A5, and DMPAPER_A6). They are the stock IDs unique to this product. The following table shows the stock IDs for the standard stock types registered to the printer driver. When a new stock type is additionally registered, an ID will be assigned in the order of registration,

starting from 257. The stock ID can be changed on the Edit Stock screen. Use these IDs when specifying or checking a stock size of dmPaperSize.

Stock name	Stock ID			
Stock name	Current	Old		
USER	256	256		
2x4	32000	257		
4x4	32001	258		
4x6	32002	259		
200x85	32004	260		
A4	32005	261		
A5	32006	262		
A6	32007	263		
JAMA L	32010	267		
JAMA M	32011	268		
JAMA S	32012	269		
Form-F	32009	270		
Form-A	32008	271		
185x85	32003	272		
6x4	32013			
2x2	32014			
3x3	32015			

ATTENTION:

The IDs for the standard stock types have been totally changed from Version 7.2 M-2, which causes mismatching in the IDs between the older printer driver and the new printer driver. Therefore, when printing is performed from the application which manages the stock types for Excel, Access, etc. by their IDs assigned by the older printer driver version, a wrong stock may be selected.

In this case, change the stock IDs back to the former ones using the following procedure.

- For the user-added stocks, import the settings of the previous printer driver to the new printer driver. (User-added stocks are imported with their original IDs.)
- (2) For the standard stock types, the stock IDs registered to the new printer driver are unchangeable. So, select the standard stock type, click on the [New], and save it as a new stock assigning the former ID listed the table on the left.

The stock list is sorted by ascending order of stock name (Symbol, number, alphabet, Kana, and Kanji), regardless of the stock ID.

Page Setup	Graphics Stock Options About
Stock-	
<u>N</u> ame:	USER (4.09 in x 2.92 in)
	USER (4.09 in x 2.92 in)
	2 x 4 (2.00 in x 4.00 in)
	. 4 x 4 (4.00 in x 4.00 in)
- Preview-	. 4 x 6 (4.00 in x 6.00 in)
	Form-A (4.09 in x 8.39 in)
	Form-F (4.09 in x 6.89 in)

- In the case an export file of the previous version is imported, the preset paper settings may be reset. After importing the preset settings, check the settings.
- When Access2007 is used, some paper names may not be correctly shown. To set the paper names, click [Page Setup] and open the "Edit Stock" dialog.
- For the BA410T series and the BA420T series, the printer performs at 76.2 mm/sec. if 50.8 mm/sec. is specified on the thermal transfer mode.
- Some functions which are not contained in your printer may be displayed on the various setting menus of the printer driver. Those functions are not supported.
- When the port configuration is changed, the dialog box on the right may be displayed. In this case, change the port configuration with administrative privilege.

Configu	re Port
<u>^</u>	An error occurred during port configuration. This operation is not supported.
	ОК

 Bitmap fonts cannot be used for Access. When using Access, remove the check from the "List Bitmap Font" check box in the "Font Settings" dialog.

Font Settings
Resident Fonts Utility Fonts Encoding
Scalable Font Settings
✓ List Scalable Fonts
✓ List <u>C</u> ondensed and Expanded Widths
List Specified Scale Factors
Percentages:
- Bitmap Font Settings
List Bitmap Fonts
Simulate Scalable Fonts
List Magnifications List Condensed and Expanded Widths
Compatibility Settings
List Multiple Character Set Fonts Separately
OK Cancel Apply Help

- Do not install other Seagull Scientific printer drivers in the PC where this product has been installed. If you installed any by mistake, uninstall all printer drivers by the DriverWizard, then reinstall this product only.
- When printing is performed from an application created by PrintSystem3 and Active Reports, open the Properties, click the [Advanced] tab, and remove the check from the "Enable advanced printing features" check box. When this check box is selected, the number of prints may not reflect correctly. The default setting after installing the printer driver is enabled. When you remove a check from check box, change the setting after the print system III and Active Reports are completed.

<u>H</u> old mismatched documents				
Print spooled documents first				
Keep printed documents				
Enable advanced printing features				
Printing Defaults Print Processor Separator Page				
OK Cancel Apply Help				

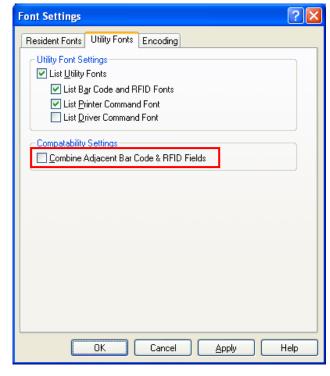
- It will be same operation as [sending print data to the printer after spooling the minute data (T)] in case the [Enable detailed Printing Function] check box is not checked, even if [Send Print Data to Printer immediately (I)] is already set up.
- When data with a large number of digits is encoded into a barcode (or 2D code), and if that barcode cannot be printed within a page width, such data will be invalid.
 When you use data with a large number of digits,

When you use data with a large number of digits, click the [Fonts] tab, select the barcode font, click [Font] and [Edit], then select the "Join Multiple Lines" check box. When this check box is selected, every data specifying the same font will be incorporated into one barcode. If you want to print more than one barcode of the same font with this feature enabled, register required number of barcode fonts.

Example: When you want to print three Code128 symbols in a page with "Join Multiple Lines" enabled, register three Code128 barcode fonts and specify one to one: Barfont Code128-1 Barfont Code128-2 Barfont Code128-3

Bar Code Fon	t						×
Font							
Font <u>N</u> ame:	Bar	Font Code128			<u>W</u> idth:	Normal	~
Encoding:	Wes	tern (ANSI 1252)		~	🗹 Join	<u>M</u> ultiple Lines	
Bar Code Optio	ons						
Symbology:		Code 128					~
X Dimension:		16.7 mils	*	<u>O</u> r	ientation:	0°	~
<u>H</u> uman Readab	ole:	Below Bars	*	<u>R</u> a	tio;	Auto	~
Symbology Spe	ecific	Options					
🛛 🗹 <u>C</u> heck Digi	t						
<u>G</u> S1 - 128							
Code Set: A	uto	*					
		C	К	C	Cancel	Hel	p

 If data including a space at the beginning or at the end is printed in barcode font, such space is deleted from the data. Multiple data with the same Y-coordinate and same barcode font specified are all connected. To avoid this, click the [Fonts] tab and [Tools], select "Font Settings", click the [Utility Fonts] tab, then remove the check from the "Combine Adjacent Bar Code & RFID Fields" check box.



 In the case more than one print job is continuously printed, these jobs may not be printed in the order displayed in the print queue. To avoid this, select the "Print spooled documents first" check box.

<u>H</u> old mismatched documents
☑ Print spooled documents first
Keep printed documents
Enable advanced printing features
Printing De <u>f</u> aults Pri <u>n</u> t Processor Separat <u>o</u> r Page
OK Cancel Apply Help

- Changing the printer name with the "Enable bidirectional support" check box unselected may cause the setup information to be non-editable. In this case, select the "Enable bidirectional support" check box and click [OK]. Then open the same screen again and remove the check from the "Enable bidirectional support" check box. It is possible to save the setup information by temporarily enabling the bidirectional support after changing the printer name.
- In the case of Bluetooth communication, click the [Tools] tab [Setting], select "Printer Option", then select the "Bluetooth Connection" check box. Also, select the "Enable bidirectional support" check box in the [Port] tab.

COM4: Serial Port
Add Port Delete Port Configure Port
Enable bidirectional support
Enable printer pooling
OK Cancel Apply Help

Printer Communicati				
Bluetooth Conne	ction			
<u>D</u> elay Close:	1000	ms		
	ОК		Cancel	Help

- Together with the above setting, Set "Status Monitoring" as "During print jobs only", "On demand" or "Continuous".
- In case of using the USB connection and cannot open the printer's properties, do below action.
 - 1. Delete all printers in Driver Wizard and reboot the computer.
 - 2. Install the printer driver again and add printer.

How to open the Properties with the administrative privilege

To change some of the settings, the administrative privilege is necessary depending on the environment. Right-click the printer icon, select "Run as administrator" and click "Properties".

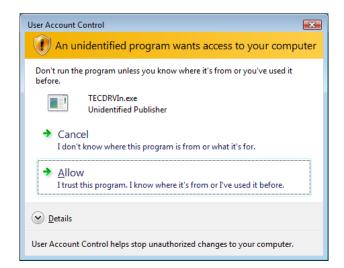
	7			
TEC B-SA		Open		
	۲	Run as administrator		Open
		Printing Preferences		Pause Printing
		Pause Printing		Sharing
		Sharing		Use Printer Offline
		Use Printer Offline		Delete
		Refresh		Properties
		Create Shortcut	Г	
		Delete		
		Rename		
		Properties		

Note: The "User account control" dialog box may be displayed. In that case, click [Allow].

How to set up Windows again

If you uninstall the printer driver, set up the Windows again. This should be also conducted when the installation does not succeed.

- *I*. Select "Start", "All programs", "TOSHIBA TEC", "TPCL Printer Driver" and "TECDRVIN".
 - Note: Log on as the user with administrative privilege. The "User account control" dialog may be displayed. In that case, click [Allow].



2. When the screen on the right appears, click [Install].

Windows Security
Would you like to install this device software?
Name: Seagull Printers Publisher: Seagull Scientific, Inc
Always trust software from "Seagull Scientific, Inc".
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

■ If plug-and-play installation fails under Windows

If an undefined device is created after a plug-and-play installation, follow the procedure below.

- 1. Select "Start", "All programs", "TOSHIBA TEC", "TPCL Printer Driver" and "PnP recovery".
 - Note: Log on as the user with administrative privilege. The "User account control" dialog may be displayed. In that case, click [Allow].
- 2. When the screen on the right appears, click [Install].

User Account Control	
If you started this program, continue. Seagull Driver Wizard Seagull Scientific, Inc	
© Details Cancel	
User Account Control helps stop unauthorized changes to your computer.	

Windows Security
Would you like to install this device software?
Name: Seagull Printers Publisher: Seagull Scientific, Inc
Always trust software from "Seagull Scientific, Inc".
You should only install driver software from publishers you trust. How can I decide which device software is safe to install?

2. Installation Procedure

The installation procedure of this printer driver differs depending on the printer models and the connection methods. Follow the procedure for the appropriate condition to install the printer driver.

If the older version of this printer driver has been already installed, be sure to uninstall it first, restart the printer, and install the latest printer driver.

Section 2.5 Uninstalling the Printer Driver.

Preparatory Procedure Common to All Models

Before installing the printer driver, refer to Section 2.1 Preparation for Installation and follow the instructions.

Printer driver installation method

				Connectable tion method	A. NOLCO	Infectable
Printer model	P	Plug and Play is used.				
i finder möder	RS232C	USB	Parallel			
B-SX8T (305 dpi)	0	LAN O	Parallel O	Bluetooth X	000	O
B-SX6T (305 dpi)	0	0	0	X	0	0
B-SV4	0	0	0	X	0	X
B-EV4 (203 dpi),	0	0	0	X	0	X
B-EV4 (300 dpi)	Ũ	Ũ	Ũ	~	Ũ	Л
B-EP2DL-G	0	0	Х	0	0	Х
B-EP4DL-G	0	0	X	0	0	X
B-452-R	0	0	0	X	0	0
B-462-R	0	0	0	X	0	0
B-852-R	0	0	0	X	0	0
B-SA4T (203 dpi),	0	0	0	X	0	0
B-SA4T-CN (203 dpi),		0				U U
B-SA4T (300 dpi),						
B-SA4T-CN (300 dpi)						
B-SX4T (203 dpi),	0	0	0	Х	0	0
B-SX4T-CN (203 dpi)	-	-	-	~	•	-
B-SX5T (305 dpi),	0	0	0	Х	0	0
B-SX5T-CN (305 dpi)	_		_		_	_
B-EX4T1 (203 dpi),	0	0	0	Х	0	0
B-EX4T1 (305 dpi)						
B-EX4T2 (203 dpi),	0	0	0	Х	0	0
B-EX4T2 (300 dpi),						
B-EX4T2 (600 dpi),						
B-EX4D2 (203 dpi),						
B-EX4T3 (600 dpi),	0	0	0	Х	0	0
B-EX6T1 (203 dpi)	0	0	0	X X	0	0
B-EX6T1 (305 dpi)						
B-EX6T3 (203 dpi)	0	0	0	Х	0	0
B-EX6T3 (305 dpi)			1			
B-FV4 (203 dpi),	0	0	0	Х	0	Х
B-FV4 (300 dpi)						
B-FP3D (203 dpi)	Х	0	Х	0	0	Х
DB-EA4D	Х	0	0	Х	0	0
BA410T (203 dpi)						
3A410T (300 dpi)	0	0	×	0	0	0
BA420T (203 dpi)		0			0	0
BA420T (300 dpi)						
3-FP2D (203 dpi)	Х	0	Х	0	0	Х
BV400 (203 dpi)	0	0	×	0	0	0
BV400 (300 dpi)	0	0				0

Note: The above table does not show all interface types that each printer supports.

Check that your actual connection method is O (connectable), refer to the *Installation method by operating systems* on the following page, and follow the appropriate installation procedure.

Installation method by operating systems

	Connection method Connection me					n method	
OS	Plug and Play is not used.			sed.	Plug and Play is used.		
	RS-232C	LAN	Parallel	Bluetooth	USB	Parallel (*1)	
Windows 10							
Windows 11	1						
Windows Server 2012	Section 2.2 ins	stall under V	Vindows	Section 2.3 Install under Windows (USB	Section 2.4 install under Windows		
Windows Server 2016					connection with plug and play enabled)	(Parallel interface with plug and play enabled)	
Windows Server 2019]						

*1: If you choose the parallel interface with plug and play enabled, you need to change some parameter settings on the printer. The "plug and play" feature has been disabled as default for the parallel interface connection. See the following.

In the case installing a shared printer, follow the procedure described in "*To print on the shared printer*" in **Section 2.2 Installation under Windows**. When you want to use Plug and Play, follow the above procedure.

• Printer parameter settings when installing the printer driver via parallel interface with plug and play enabled:

B-SX4 Series and B-SX5 Series

Start the printer in the system mode, enter the <2>PARAMETER SET menu and set the following parameters as below:

CENTRO. MODE:ECP (Default: SPP) Enables an installation of the printer driver with plug and play PLUG & PLAY: ON (Default: OFF)........Enables monitoring the printer status. (* Status Window Preferences in Section 3.6 Tools Tab.)

When you use the bidirectional communication, set "CENTRO. MODE" to "ECP" and "PLUG & PLAY" to "ON", respectively. The parameter setting procedure is provided in **Section 6.2 Parameter Setting on the Printer**.

B-SA4 Series, B-852-R, B-452-R, B-SX6T-R, B-SX8T-R, B-EX4 Series and B-462-R

Start the printer in the system mode, enter the <2>PARAMETER SET menu and set the following parameter:

PLUG & PLAY: ON (Default: OFF)..... Enables an installation of the printer driver with plug and play

Since the printer status monitor cannot be used, disable "Bidirectional support" in the Properties of the printer driver.

2.1 Preparation for Installation

1. Access Toshiba TEC web site at the following address and download the printer driver install file "TPCL****M*J.exe" to the local disc.

1.http://www.toshibatec-ris.com/download_overseas/printer/printer_driver/

- 2. **Note**: If you do not agree with the Software License Agreement, you cannot download the file. The * part in the install file name changes depending on the version.
- 2. Double-click the downloaded "TPCL*****M*J.exe" and the "TPCL PRINTER DRIVER – Installshield Wizard" is displayed. Click [Next].
 - Note: Log on as the user with administrative privilege. When the User Account Control screen is displayed, click on "Allow".

User Account Control		×
() An unidentified	program wants access to your compu	ıter
Don't run the program u before.	nless you know where it's from or you've used it	
	7.1.7_M-0_E.exe ed Publisher	
Cancel I don't know where	e this program is from or what it's for.	
→ <u>A</u> llow I trust this program	n. I know where it's from or I've used it before.	
🕑 <u>D</u> etails		
TPCL PRINTER DRIVER QM7	/17M0 - InstallShield Wizard	×
	Welcome to the InstallShield Wizard for TPCL PRINTER DRIVER QM717M0	
TPCL PRINTER DRIVER QM7	Welcome to the InstallShield Wizard for TPCL	k

3. The "Software License Agreement" screen is displayed. Select "I accept the terms of the license agreement" and click [Next].
 Note: If you do not agree with the Software License Agreement, you cannot download the file.

TPCL PRINTER DRIVER QM717M0 - InstallShield Wizard
License Agreement Please read the following license agreement carefully.
 You may use this Software on a single TOSHIBA TEC bar-code printer acquainted from affiliated company, dealer or distributor of TOSHIBA TEC. You shall not grant a sub-license, distribute, transfer, lend or otherwise dispose of this Software, in whole or in part, for the use of any third party other than you except as otherwise expressly provided herein. You shall not modify, reverse engineering, reverse compile or reverse disassemble this Software, in whole or in part, except as otherwise expressly provided herein. You shall not copy or make a duplicate (or backup copy) of this Software, in whole or in part, except as otherwise expressly provided herein.
○ I go not accept the terms of the license agreement Print ○ I go not accept the terms of the license agreement Item terms of the license agreement
InstallShield <a>Reack <a>Reack <a>Reack <a>Cancel

4. When you click [Install], the printer driver install file is created in "C:\TEC_DRV".
 Note: The folder name cannot be changed from "C:\TEC_DRV".

TPCL PRINTER DRIVER QM717M0 - InstallShield Wizard
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield

5. When the installation is completed, click [Finish].



Note: If the right-hand screen appears, click [Install].

+ Windows Security	×
Would you like to install this device software?	
Always trust software from "Seagull Scientific, Inc".	nstall
You should only install driver software from publishers you trust. How can I dec which device software is safe to install?	<u>ide</u>

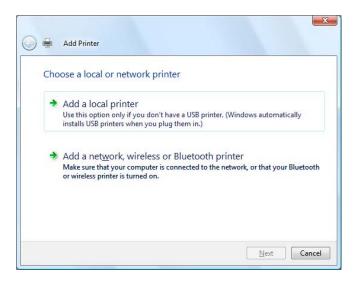
2.2 Installation under Windows

Note: If the installation did not succeed, follow the procedure described in How to set up Windows again.

1. Turn on the PC.

Note: Log on as the user with administrative privilege.

- Select "Start", "Control Panel", "Hardware and Sound" and "Printer" to open the printer folder.
 Supplement: Entering "Printer" in the Search box of the Start menu causes "Printer" to be shown in the Program.
- ${\it 3.}\,$ Click "Install a Printer" to start adding a printer.
- 4. Select "Add a local printer".



5. Select a printer port and click [Next].

Choose a printer po	rt	
choose a printer po		
A printer port is a type of cor printer.	nnection that allows your compu	iter to exchange information with a
Use an existing port:	LPT1: (Printer Port)	
© Create a new port:		
Type of port:	Local Port	

 $6. \$ When the screen on the right appears, select "TEC" from the Manufacturer list.

		d model of your printer. If your printer came with an installation
		r printer is not listed, consult your printer documentation for
compatible printer	software.	
Manufacturer	*	Printers
Apollo		Apollo P-1200
Brother		Apollo P2100/P2300U
Citizen	+	

 $7. \,$ The list of the installable printer models is displayed.

🕒 🖶 Add Printer	×
Install the printer driver Choose your printer from the list. Click Windows Update to see more models. To install the driver from an installation CD, click Have Disk.	
Manufacturer Printers Sharp TEC B-SA4T (200 dpi) Sony TEC B-SA4T-CN (203 dpi) TOSHIBA TEC B-SA4T-CN (300 dpi) TOSHIBA TEC TEC B-SV4 Version TEC B-SV4 Version This driver has an Authenticode(tm) signature. Windows Update Tell me why driver signing is important	•
Next Cance	al

Driver name	Model	Driver name	Model	Driver name	Model
TEC B-852-R	B-852-TS22-QQ-R	TEC B-SA4T	B-SA4TM-GS12-QM-R	TEC B-SA4T	B-SA4TM-TS12-QM-R
	B-852-TS22-QP-R	(203 dpi)	B-SA4TP-GS12-QM-R	(300 dpi)	B-SA4TP-TS12-QM-R
TEC B-SA4T-CN	B-SA4TP-GS12-CN-R	TEC B-SA4T-CN		TEC B-SV4	B-SV4D-GS10-QM
(203 dpi)		(300 dpi)	B-SA4TP-TS12-CN		B-SV4D-GC10-QM
					B-SV4D-GS10-QM-R
					B-SV4D-GC10-QM-R
					B-SV4D-GS10-CN
					B-SV4D-GH10-QQ-US
					B-SV4T-GS10-QM-R
TEC B-SX4T	B-SX4T-GS10-QQ	TEC B-SX4T-CN		TEC B-SX5T	B-SX5T-TS12-QQ
(203 dpi)	B-SX4T-GS10-QQ-US	(203 dpi)	B-SX4T-GS20-CN	(305 dpi)	B-SX5T-TS12-QQ-US
	B-SX4T-GS10-QP		B-SX4T-GS20-CN-R		B-SX5T-TS12-QP
	B-SX4T-GS20-QQ				B-SX5T-TS22-QQ
	B-SX4T-GS20-QQ-US				B-SX5T-TS22-QQ-US
	B-SX4T-GS20-QP				B-SX5T-TS22-QP
TEO D OVET ON	B-SX4T-GS20-QM-R	TEO D OVOT		TEO D OVOT	B-SX5T-TS22-QM-R
TEC B-SX5T-CN	B-SX5T-TS12-CN	TEC B-SX6T	B-SX6T-TS12-QM-R	TEC B-SX8T	B-SX8T-TS12-QM-R
(305 dpi)	B-SX5T-TS22-CN	(305 dpi)		(305 dpi)	
TEO D 450 D	B-SX5T-TS22-CN-R			TEO	
TEC B-452-R	B-452-TS22-QQ/QP-R	TEC B-EP2DL-G	B-EP2DL-GH20-QM-R	-	B-EP4DL-GH20-QM-R
	B-452-TS22-CN		B-EP2DL-GH30-QM-R	B-EP4DL-G	B-EP4DL-GH30-QM-R
TEO D EV(4 (000			B-EP2DL-GH40-QM-R		B-EP4DL-GH40-QM-R
TEC B-EV4 (203	B-EV4D-GS14-QM-R	TEC B-EV4 (300		TOSHIBA	B-EX4T1-GS12-QM-R
dpi)	B-EV4T-GS14-QM-R	dpi)	B-EV4T-TS14-QM-R	B-EX4T1 (203	B-EX4T1-GS12-CN-R
TOSHIBA	B-EX4T1-TS12-QM-R	TOSHIBA	B-EX4T2-GS12-QM-R	dpi) TOSHIBA	B-EX4T2-TS12-QM-R
	B-EX4T1-TS12-QM-R B-EX4T1-TS12-CN-R		B-EX412-GS12-QM-R B-EX4T2-GS12-CN-R		B-EX4T2-TS12-QM-R B-EX4T2-TS12-CN-R
B-EX4T1 (305	D-EA411-1312-CN-R	B-EX4T2 (203	B-EX4D2-GS12-QQ-R	B-EX4T2 (300	D-EA412-1312-CIN-R
dpi)		dpi)	B-EX4D2-GS12-QQ-R B-EX4D2-GS12-QM-R	dpi)	
TOSHIBA	B-EX4T2-HS12-QM-R	TEC B-462-R	B-EX4D2-GS12-QM-R B-462-TS22-CN-R	TOSHIBA	B-FP3D-GH30-QM-R
B-EX4T2 (600	B-EX4T2-HS12-QM-R B-EX4T2-HS12-CN-R	1 EC D-402-R	D-402-1322-CIN-K	B-FP3D (203	B-FP3D-GH30-QM-R B-FP3D-GH40-QM-R
`	D-EA412-1312-0N-K			`	B-FP3D-GH40-QM-R B-FP3D-GS30-QM-R
dpi)				dpi)	B-FP3D-GS30-QM-R B-FP3D-GS40-QM-R
					D-FF3D-G340-QIVI-R

D :				D :	
Driver name	Model	Driver name	Model	Driver name	Model
TOSHIBA B-FV4 (203 dpi)	B-FV4T-GS12-QM-R B-FV4T-GS14-QM-R B-FV4T-GS16-QM-R B-FV4T-GS16-CN-R B-FV4D-GS12-QM-R B-FV4D-GS16-QM-R B-FV4D-GS16-QM-R B-FV4D-GS16-CN-R B-FV4D-GS16-CN-R B-FV4D-GS16-CN-R B-FV4D-GL14-QM-R	TOSHIBA B-FV4 (300 dpi)	B-FV4T-TS14-QM-R B-FV4T-TS16-QM-R B-FV4T-TS14-CN-R B-FV4T-TS16-CN-R B-FV4D-TS12-QM-R B-FV4D-TS14-QM-R B-FV4D-TS16-QM-R B-FV4D-TS16-CN-R B-FV4D-TS16-CN-R	TOSHIBA B-EX6T1 (203 dpi)	B-EX6T1-GS12-QM-R B-EX6T1-GS12-CN-R
TOSHIBA B-EX6T1 (305 dpi)	B-EX6T1-TS12-QM-R B-EX6T1-TS12-CN-R	TOSHIBA B-EX6T3 (203 dpi)	B-EX6T3-GS12-QM-R B-EX6T3-GS12-CN-R	TOSHIBA B-EX6T3 (305 dpi)	B-EX6T3-TS12-QM-R B-EX6T3-TS12-CN-R
TOSHIBA B-EX4T3 (600 dpi)	B-EX4T3-TS12-QM-R B-EX4T3-TS12-CN-R	DB-EA4D	DB-EA4D-GS10-QM-R DB-EA4D-GS12-QM-R	TOSHIBA B-FP2D(203 dpi)	B-FP2D-GH30-QM-S B-FP2D-GH50-QM-S B-FP2D-GH30-CN-S B-FP2D-GH50-CN-S
TOSHIBA BA410T (203 dpi)	BA410T-GS12-QM-S	TOSHIBA BA420T (203 dpi)	BA420T-GS12-QM-S	TOSHIBA BV400(203 dpi)	BV410D-GS02-QM-S BV420D-GS02-QM-S BV420D-GS02-QM-S BV420D-GS02-CN-S BV410T-GS02-QM-S BV410T-GS14-QM-S BV420T-GS14-QM-S BV420T-GS02-CN-S BV410T-GS02-CN-S BV420T-GS02-CN-S BV420T-GS02-CN-S
TOSHIBA BA410T (300 dpi)	BA410T-TS12-QM-S	TOSHIBA BA420T (300 dpi)	BA420T-TS12-QM-S	TOSHIBA BV400(300 dpi	BV410D-TS02-QM-S BV420D-TS02-QM-S BV420D-TS02-QM-S BV410T-TS02-QM-S BV410T-TS14-QM-S BV420T-TS02-QM-S BV420T-TS14-QM-S BV410T-TS02-CN-S BV410T-TS06-CN-S BV420T-TS02-CN-S

- $8.\,$ Select a model to be installed, then click [Next].
- 9. Select "Replace the current driver" and click [Next].

Supplement: This step will be omitted when the printer driver is installed for the first time.

Which	n version of tl	he driver do y	ou want to use	?
Window	s detected that a d	river is already inst	alled for this printer.	
_		urrently installed (re	commended)	
Repl	ace the current driv	/er		

10. Select whether or not to use the printer as a default printer, then click [Next].

G	🖶 Add Printe	er	
	Type a printe	er name	
	Printer name:	TEC B-SA4T (300 dpi)	
	i nis printer will be	installed with the TEC B-SA4T (300 dpi) dr	nver.
			Next Cancel

11. Installation starts.

12. When the installation is completed, the "Add Printer" screen is displayed. At this time, a new printer icon is added to the "Printer" folder. Click [Finish]. If you want to perform a print test, click [Print a test page].

🕞 👼 Add Printer
You've successfully added TEC B-SA4T (300 dpi)
To check if your printer is working properly, or to see troubleshooting information for the printer, print a test page Print a test page
Einish Cancel

■ To print on the shared printer (1)

- l. Conduct above-mentioned steps 1 through 12.
- - **Note**: This work requires the administrative privilege. For the user with no administrative privilege, grant it temporarily.
- $\begin{array}{l} \textbf{3. Right-click the newly added icon and select} \\ \textbf{``Properties'' to open the ``Properties'' screen.} \end{array}$

					2
	onts		Tools		About
General	Sharing	Ports	Advanced	Color Manage	ment Security
<u>Location:</u>		-SA4T (300	dpi)		
<u>C</u> ommen	t:				
M <u>o</u> del: – Feature		-SA4T (300	dpi)		
Color:	No		Paper	available:	
	No sided: No		Paper	available:	
Double	e-sided: No		Paper	available:	*
Double Staple:	e-sided: No No		Paper	available:	*
Double Staple: Speed:	e-sided: No	on: 300 dpi	Paper	available:	4
Double Staple: Speed:	e-sided: No No Unknown		Paper of the second sec		t <u>T</u> est Page

- 4. Click the "Ports" tab and remove the check from the "Enable bidirectional support" check box. Click [Add Port].
 - Note: After installing this printer driver, be sure to disable the bidirectional support. For details, refer to Section 6.1 How to Enablebidirectional Communication Support.

🖶 TEC B-SA4T	(300 dpi) Properties			×
Font	s	Tools	Abou	t
General	Sharing Ports	Advanced	Color Management	Security
Print to the f	EC B-SA4T (300 dpi)		int to the first free	
checked por				
Port	Description	Printer		- Â
LPT1:	Printer Port	TEC B-	SA4T (300 dpi)	
LPT2:	Printer Port			
LPT3:	Printer Port			=
COM1:	Serial Port			
COM2:	Serial Port Serial Port			
COM3:	Print to File			
FILE:	Print to File			*
Add F	Port	<u>D</u> elete Port	<u>C</u> onfigure F	Port
	directional support nter pooling	נ		
	ОК	Cancel	Apply	Help

5. Select "Local Port" and click [New Port].

vailable port types:		
local Port		
Standard TCP/IP Port		

Port Name	×
Enter a port name:	ОК
\\+++++\TECB-SA4	Cancel

- $7. \$ When the port setting is completed, click [OK] to close the "Properties" screen.
 - Note: After installing this printer driver, be sure to disable the bidirectional support. For details, refer to Section 6.1 How to Enablebidirectional Communication Support.

Since the setup information is stored in each PC that shares the printer, configure the printer driver settings after the completion of the port setting.

■ To print on the shared printer (2)

Note: If the printer driver of different version has been already installed, first uninstall it, then install this printer driver. The version of the printer drivers in the server PC and client PC must be the same.

• Read before installation

The printer driver installed in the server PC must support Windows.

For the client PC, the printer driver needs to be installed in or uninstalled from each user account.

Configure the network settings for the Server PC's shared printer driver, as shown in the screen on the right.

Driver Options	? ×
Administration Network Settings Regional Option	s Printer Specifications
Network Features	
Configuration Sharing Status: Not Available	Network <u>S</u> etup
Printing Preferences Share settings between all users Share settings between all documents	
Security Users allowed to modify settings:	sers 🔻
Network users allowed to modify settings:	sers 🔻
OK Cancel	pply Help

1. Turn on the PC.

Note: Log on as the user with administrative privilege.

- 2. Follow the procedure described in Section 2.1 Preparation for Installation.
- 3. Log on as the user which is allowed to access the PC with which the printer is shared.
- 4. Select "Start", "Control Panel", "Hardware and Sound" and "Printer" to open the printer folder. **Supplement**: Entering "Printer" in the Search box of the Start menu causes "Printer" to be shown in the Program.
- 5. Click "Install a Printer" to start adding a printer.

6. Select "Add a network, wireless or Bluetooth printer".

6	Add Printer
Cho	pose a local or network printer
•	Add a local printer Use this option only if you don't have a USB printer. (Windows automatically installs USB printers when you plug them in.)
	Add a network, wireless or Bluetooth printer Make sure that your computer is connected to the network, or that your Bluetooth or wireless printer is turned on.
	Next Cancel

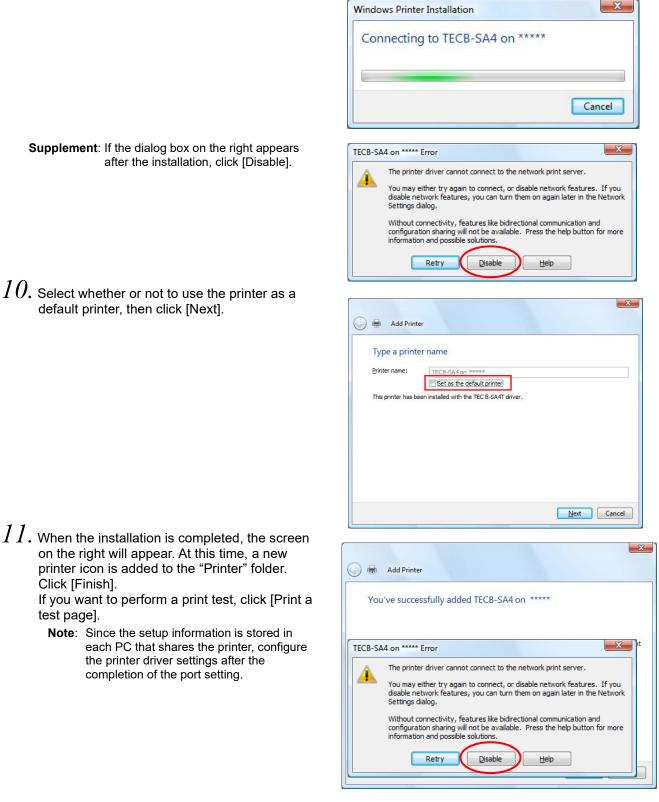
7. Click "The printer that I want isn't listed".

Searching fo	r available pri	nters	
			Stop
The priv	nter that I want	isn't listed	

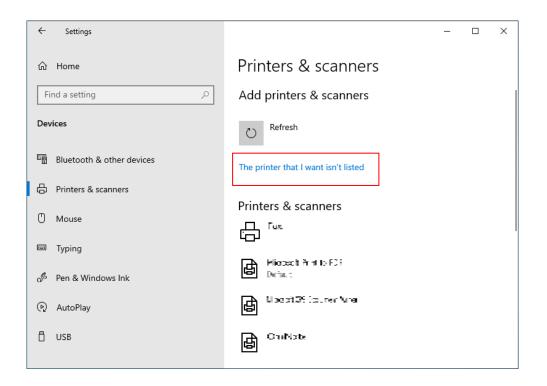
8. Click "Select a shared printer by name", enter the network path of the shared printer (e.g.: *****\TECB-SA4), then click [OK].

🖶 Add Printer	
Find a printer by name or TCP/IP address	
Browse for a printer	
Select a shared printer by name	
*****\TECB-SA4	Browse
Example: \\computername\printername or http://computername/printers/printername/.printer	
\bigcirc Add a printer using a TCP/IP address or hostname	

9. Installation starts.



In case of not success the added the printer, try to choose "The printer that I want isn't listed" in Printer & scanners to install the printer.



2.3 Installation under Windows (USB with Plug & Play Enabled)

Note: If an undefined device is created after installation of the printer driver, follow the procedure described in the section *If plug-and-play installation fails under Windows*.

1. Turn on the PC.

Note: Log on as the user with administrative privilege.

- 2. Turn on the printer and connect it to the PC with a USB cable.
- ${\it 3.}$ Installation of the device driver software is automatically started.
- 4. After a while, the printer driver installation is completed.
- 5. When the installation is completed, a new printer icon is added to the Printer folder.

2.4 Installation under Windows (Parallel Interface with Plug & Play Enabled)

Note: If an undefined device is created after installation of the printer driver, follow the procedure described in the section *If plug-and-play installation fails under Windows*.

I. Connect the printer to the PC with a parallel interface cable.

2. Turn on the printer.

 ${\it 3.}$ Set the printer parameters in the system mode.

B-SX4 Series and B-SX5 Series

CENTRO. MODE \rightarrow ECP

PLUG & PLAY \rightarrow ON

B-SA4 Series, B-852-R, B-452-R, B-SX6T (305 dpi), B-SX8T (305 dpi), B-EX4 Series, B-EX6 Series and B-462-R

 $\mathsf{PLUG} \And \mathsf{PLAY} \to \mathsf{ON}$

Note: For the parameter setting procedure, refer to Section 6.2 Parameter Setting on the Printer.

4. Turn on the PC.

Note: Log on as the user with administrative privilege.

- **5.** After the system is started, the installation of the device driver software is automatically started.
- 6. After a while, the installation of the printer driver is completed.
- 7. When the installation is completed, a new printer icon is added to the Printer folder.

2.5 Uninstalling the Printer Driver

To delete the printer drivers

In the following cases, be sure to uninstall the printer driver using the procedure below.

- When the same version is installed again.
- When an older version has been already installed.
- When the installation is canceled on the way or when [No] is selected at a confirmation of the digital signature.
- When the printer driver cannot be installed for some reason.

Notes: 1. When installing the printer driver with Plug & Play enabled, turn OFF the printer first.

2 When the printer driver is deleted, the information of the registered stocks and barcodes are also deleted. This information can be saved in a file beforehand by using the export function and restored by using the import function after re-installation of the printer driver.

• In the case of deleting the printer drivers except for the same version

Before deleting the printer driver except for the same version, follow the procedure described in *Section 2.1 Preparation for Installation.* Doing this causes the previously installed printer driver to be updated and creates the shortcut of the Driver Wizard in the TPCL Printer Driver of the TOSHIBA TEC folder. For such versions, first delete the "C:\TEC_DRV" folder, then conduct the Preparation for Installation. When the preparation is completed, the "Driver Wizard" shortcut is created in the TPCL Printer Driver folder.

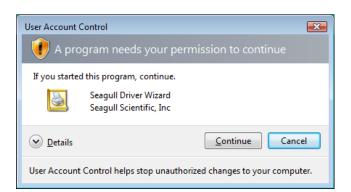
• In the case of deleting the printer driver of "To print on the shared printer (2)"

Before deleting the printer driver, delete the printer icon that was created when the shared printer was installed.

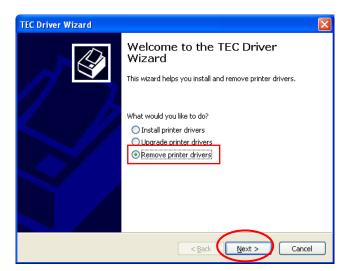
• Uninstalling the printer driver

- *I*. Select "Start", "All programs", "TOSHIBA TEC", "TPCL Printer Driver" and "Driver Wizard".
 - **Note**: Log on as the user with administrative privilege. Exit all Windows applications before performing the above operation. Confirm that there is no print job in the spooler, then close the spooler and the printer folder.

In the case of Windows Vista / Server 2008 / 7 / Server2008R2 / 8 / Server2012 / Server2012R2 / 10 / Server2016, the User Account Control screen may appear. In that case, click [Allow].



2. Select "Remove printer drivers" and click [Next].



- TEC Driver Wizard

 Select Removal Method

 You have a choice of driver removal methods.

 What would you like to do?

 Remove printers

 Automatically remove all TEC Printer Drivers

 Use advanced printer driver removal options
- 4. Click [Finish] to start to delete the printer drivers.

TEC Driver Wizard	
	Completing the TEC Driver Wizard
	The following items will be removed:
	Printers: TEC B-SA4T (300 dpi)
	Drivers: TEC B-5A4T (300 dpi)
	Components: Printing Preferences: TEC B-SA4T (300 dpi) Seagul Driver Settings [6.6 - Current] Seagull Network Monitor
	Files:
	The driver removal process may require Windows to be restarted more than once.
	To begin this process, click Finish.
	< Back Finish Cancel

3. Select "Automatically remove all TEC Printer Drivers" and click [Next].

- 5. When the printer driver is deleted successfully, the screen on the right is displayed.
 - **Note**: If the deletion of the printer driver failed, retry from Steps 1 to 5 until the deletion succeeds.

TEC Driver Wizard	×
	TEC Driver Wizard Completed Successfully The following operations were completed successfully: Removed printer 'TEC B-SA4T (300 dpl)'. Removed component 'Seaguil Driver Settings [6.6 - Curre Removed component 'Seaguil Network Monitor'. Removed file 'c:\windows\system32\spool\drivers\w32x8 Removed file 'c:\windows\system32\spool\drivers\w32x8

Note: When you deleted the printer driver from Windows 10, Windows Server 2012 and Windows Server 2016 and reinstall the printer driver again, follow the procedure described in *How to Setup Windows again*.

In the case a network printer has been installed in multiple user accounts under Windows 10, Windows Server 2012 and Windows Server2016, it is not possible to delete the printer driver. First, delete the printer icon from each user account, then delete the printer driver.

• Deleting the setup information configured during the preparation

- *1*. Select "Start", "Control Panel" and "Add/Remove Programs". **Note**: Log on as the user with administrative privilege.
- 2. Select "TPCL Printer Driver V2020.1 M-1 (version)" or "TEC Printer Driver Install file" from the list, then click [Delete].
- ${\it 3.}$ When the confirmation message is displayed, click [Yes].
- 4. When the "Uninstall completed" screen appears, click [Finish].

3. Functions

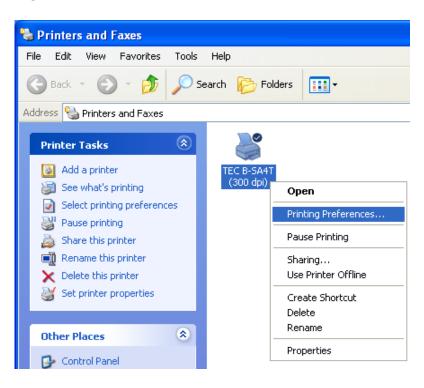
You can set various functions of this printer driver in "Properties" and "Printing Preferences". Some functions which are not contained in your printer may be displayed on the various setting menus of the printer driver. Those functions and the ones not listed in the table below are not supported.

■ Property setting menus in the "Printing Preferences"

Right-click the printer icon and select "Printing Preferences".

The following tabs are provided.

- 3.1 Page setup
- 3.2 Graphics
- 3.3 Stock
- 3.4 Options



|--|

	Function	Description	Support
Page Setup tab	Stock	Allows configuring the size of the label stock and registering it with a name in advance.	0
	Orientation	Allows specifying the orientation of an image.	0
	Effects	<mirror image=""> When enabled, the print will be a mirror image.</mirror>	0
		<negative> When enabled, the print will be white on black. When disabled, the print will be black on white.</negative>	
	Preset	Allows saving the settings of this printer driver such as fine adjustment values. When a preset setting file is selected, the current settings will be replaced by the settings of that preset file.	0
	Advanced Options		
	Printing position tab	<position adjustment=""> Allows specifying the offset in horizontal and vertical directions.</position>	Х
		<default orientation=""> Allows selecting the default print orientation between 0° (bottom first) and 180° (top first).</default>	Х
	User Commands tab	 <user commands=""></user> Allows setting the printer command to be sent at the start and the end of the job or at the start and the end of the label in the print job. 	0

	Function	Description	Support
		<function character=""></function>	0
		Allows inserting binary data in barcode font.	
	Driver Options tab	<device line="" substitution=""> When enabled, the driver will try to use the printer's Line Commands to draw lines. When disabled, lines are drawn by using the</device>	0
		Graphic Command.	
		<default copies=""> Allows setting the number of copies to be printed as default. If the number of copies is not changed in the application, this value will be effective.</default>	0
		<disable copies="" limit=""> When enabled, a value exceeding "9999" can be set for "Default Copies".</disable>	х
		<disable paper="" size="" user-defined=""> When this check box is checked, the paper size will be organized in each printer driver.</disable>	0
		<disable page="" sharing="" size=""> When enabled, paper size will be managed for each printer driver.</disable>	0
Graphics tab	Resolution	Shows the printer's available resolution.	0
	Dithering	Allows creating the illusion of different shades of gray by varying the pattern of dots.	0
		<color adjustment=""> Allows the flip horizontal, flip vertical, rotation, color balance adjustment, etc.</color>	0
		<dithering setup=""> Allows detailed setting for the selected dithering method.</dithering>	0
	Color	<color control=""> Allows setting the color processing.</color>	0
Stock	Media settings	<print method=""> Allows selecting whether the ribbon is used (thermal transfer) or not (Direct thermal).</print>	0
		<sensor> Allows selecting a sensor type used to detect a print start position.</sensor>	0
		<label gap=""> Allows setting the length of the gap between labels.</label>	0
	Issue Settings	<issue mode=""> Allows selecting whether the labels are issued in the strip mode.</issue>	0
		<post-print> Allows selecting whether the labels are issued in the cut mode. Note that the Pause is not supported.</post-print>	0
		<occurrence> Allows selecting the cutter operation and specifying how often labels should be cut.</occurrence>	0
		<interval> Specifies the number of labels to be printed before a cut operation. The cutter will cut labels after the specified number of labels is printed.</interval>	0
		<pre><print speed=""> Allows setting the print speed.</print></pre>	0

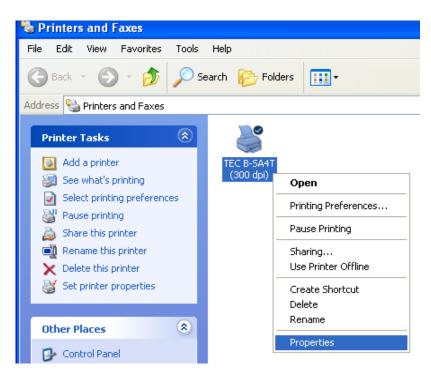
	Function	Description	Support
	Fine Adjustment	<feed></feed>	0
		Specifies the length of label that will feed after	0
		printing.	
		<backfeed></backfeed>	0
		Specifies the length of label stock that is retracted	
		before printing. This entry window is only available	
		in cut or strip mode.	
		<cut strip=""></cut>	0
		For the cut issue, specifies the length of label to feed	
		before cutting the label.	
		For the strip issue, specifies the length of label to	
		feed before peeling the label.	
		<print shrinkage=""></print>	0
		Used to compensate for label print shrinkage or	
		expansion.	
Options tab	Graphic Options	<transfer mode=""></transfer>	0
• p		Allows selecting the method used to download	-
		graphics to the printer.	
	Print Density Adjustment	<direct thermal=""></direct>	0
		Allows adjusting the print density for the direct	-
		thermal mode.	
		<thermal transfer=""></thermal>	0
		Allows adjusting the print density for the thermal	
		transfer mode.	
		<optimization></optimization>	0
		Allows selecting the printer's optimization level from	
		Quality, Balanced (middle), and Speed. This feature	
		is provided only for the B-EP series.	
	Feed Adjustment	<feed adjustment=""></feed>	0
		Specifies the length of label to feed after printing	
		(feed). Before a next printing is started, the label is	
		fed in the reverse direction to the print start position.	
	Supply Options	Allows setting the printing energy for each of the	0
		direct thermal and thermal transfer.	
	Multiple Part Print Area	Allows specifying the duplicate printing area and the	0
		print density for that area. (B-419 and B-EV4 only)	-
	Ribbon Adjustments	Used to set the conditions related to the ribbon.	0
About tab	License	Shows the license information.	0
	Version	Shows the driver version, settings, and PC	0
		information.	
		The shown information can be stored in a file.	

■ Property setting menus in the "Properties"

Right-click the printer icon and select "Properties".

3.5 Font

- 3.6 Tools
- 3.7 Printer font



O: Fully supported. X: Use the default.

	Function		Support
		Description	Support
Font tab	[Font] button	Allows adding, modifying and deleting the currently defined barcode fonts.	0
		RFID fonts are not supported.	
	[View] button	Allows limiting the view of barcode fonts to only those of specified type.	0
	[Tool] button		
	Font settings	<list fonts="" scalable=""></list>	0
	[Resident Fonts]	When selected, the scalable fonts are usable.	
		<list and="" condensed="" expanded="" widths=""></list>	0
		When selected, the fonts of which character width is condensed or expanded are usable.	
		<list factors="" scale="" specified=""></list>	Х
		When selected, the fonts of which character width is scalable at any scale ratio are usable.	
		<percentages></percentages>	Х
		Allows specifying the scale ratio.	
		<list bitmap="" fonts=""></list>	0
		When selected, the bitmap fonts are usable.	
		<simulate fonts="" scalable=""></simulate>	Х
		When selected, the bitmap fonts of same size with the outline fonts are specified.	
		<list magnifications=""></list>	0
		When selected, the magnified fonts are usable.	
		<pre><list and="" condensed="" expanded="" widths=""></list></pre>	0
		When selected, the fonts of which character width is condensed or expanded are usable.	

	Function	Description	Support
		<list character="" fonts="" multiple="" separately="" set=""> When selected, print fonts are printed with different code page.</list>	Х
	[Utility Fonts]	<list fonts="" utility=""></list>	0
		When selected, the utility fonts are usable.	
		<list and="" bar="" code="" fonts="" rfid=""></list>	0
		When selected, barcode fonts and RFID fonts are usable. At present, RFID fonts are not supported.	
		<list command="" font="" printer=""></list>	0
		When selected, specified data are sent to the printer as they are.	
		<list command="" driver="" font=""></list>	Х
		When selected, the font which converts the data in the specified format into a command is usable.	
		<combine &="" adjacent="" bar="" code="" fields="" rfid=""></combine>	0
		When selected, the characters are combined if the same barcode font is specified for them.	
	[Encoding]	Allows specifying the method of encoding the data into barcodes.	Х
	Bitmap Font Settings	Refer to the Driver Option of the [Tool] tab.	
Tool tab	[Print]	Allows performing print tests.	0
	[Action]	<form feed=""></form>	0
		The printer feeds one label.	
		<cut></cut>	0
		The printer cuts the label immediately.	
		<read information="" printer=""></read>	Х
		Shows the printer version and option information obtained from the printer.	
		<manage files="" print="" xml=""></manage>	Х
		Allows managing the files of label formats, graphics, and fonts stored in the printer.	
		<reset printer=""></reset>	0
		Resets the printer.	
		<test head="" print=""></test>	0
		Allows execution of the printer's broken element test.	
		<send command="" printer=""></send>	0
		Sends the generated printer commands to the printer. When the bidirectional communication is enabled, the printer status is obtained and shown after sending the commands.	
		<pre></pre>	0
		Sends the command file to the printer.	
	[Configure]	I	
	Printer Options	<automatic response="" status=""></automatic>	0
		When selected, the printer status is automatically sent at the end of a job or the occurrence of an error.	
		<pre></pre> <pre><</pre>	0
		When selected, the job information obtained from the printer via SNMP is included in the print job.	-

Function	Description	Support
	<check command="" sequence=""></check>	0
	When selected, a command, which checks whether any command is missing from a command string the printer received, is attached.	
	<command protocol=""/>	0
	Specifies the command control code.	
	<bluetooth connection=""></bluetooth>	0
	<dlay close=""></dlay>	0
	<auto feed="" setting=""> Allows selecting whether to enable or disable the auto feed feature.</auto>	0
	<configure memory=""> Allocates the built-in or expanded memory of the</configure>	0
	printer.	0
	<format memory=""></format>	0
	Formats the specified area of the flash memory.	0
	<ribbon setting=""> Allows setting the fine adjustment for the ribbon motor voltages.</ribbon>	0
[Driver Options]		
Administration	<import and="" export=""> Allows importing previously saved printer driver settings and exporting the settings of this printer driver.</import>	0
Network settings	<network setting=""></network>	Х
	When the shared printer is installed as a network printer, the setting or status information can be shared between the server and the client.	
Regional Options	<language></language>	
	Allows selection of the desired language to be used in the printer driver property screens.	0
	<units> Allows the selection of the desired units of measurement.</units>	0
	<windows setting=""></windows>	0
	Displays the "Regional and Language Options" of Windows.	
Printer Specification	ns <unprintable width=""> Specifies the unprintable area.</unprintable>	Х
	<model specifications=""> Specifies the resolution, stock size, etc. for the</model>	Х
[Logging Options]	<pre>printer model to be used. <logging> Allows logging printed pages and isbs debugging</logging></pre>	0
	Allows logging printed pages and jobs debugging purposes. <printer code="" recording=""></printer>	0
	Allows recording the command data of the print jobs to files.	0
[Status Monitoring]	<printer monitoring="" status=""> Allows selecting the printer status monitoring</printer>	0
	method. <status display="" option=""> Allows setting the properties of the status monitor.</status>	0

	Function	Description	Support
		<job verification=""></job>	Х
		Allows selecting the timing of status monitoring.	
		<communication></communication>	Х
		Allows setting the timeout and polling interval.	
About tab	License	Shows the license information.	0
	Version	Shows the driver version, settings, and PC information.	0
		The shown information can be stored in a file.	

Reference:

A part of the above settings can be changed in the print dialog box of the application, but such changes may only temporarily take effect.

3.1 Page Setup Tab

Clicking on the [Page Setup] tab allows you to specify the default media size, orientation and other properties of the media.

🍓 TEC B-SA4T ((300 dpi) Printing Preferences 🛛 🔹 💽 🔀				
Page Setup Graphics Stock Options About					
Stock <u>N</u> ame: USE					
	New <u>E</u> dit <u>D</u> elete				
Preview ALE	Orientation Effects ● Portrait ☐ Migror Image ● Landscape ■ Negative ● Portrait 180° Landscape 180°				
Preset N <u>a</u> me: <de< td=""><td>fault Settings> <u>M</u>anage</td></de<>	fault Settings> <u>M</u> anage				
Ad <u>v</u> anced Options © 1999-2014 TOSHIBA TEC CORPORATION. All Rights Reserved. © 1997-2014 Seagull Scientific, Inc., Authors of the BarTender® label software.					
OK Cancel Apply Help					

Note: When printing on the shared printer, specify the orientation and media size on the client PC from which a print job is sent. Even if the media size and the orientation are registered to the shared printer, it is not possible to share such information with the client PC.

Stock

Name

Allows specifying a previously loaded stock by name to use, modify or delete.

• New, Edit, Delete

Allows adding a new label stock specification to the list, editing or deleting a label stock already on the list.

The Section 3.1.1 Registering a new stock or editing the existing stock.

The number of registerable stocks is unlimited.

Orientation

By clicking on "Portrait", "Landscape", "Portrait rotated 180°" or "Landscape rotated 180°", the print orientation can be changed. The preview page to the left of the orientation buttons will change to reflect the selected orientation.

Depending on the printer models, the orientation of "Portrait" may differ.

Effects

• Mirror Image

When this check box is selected, the print will be a mirror image.



Negative

When this check box is selected, the print will be white on black.



Depending on the printer models, the selectable options differ.

Preset

Allows saving the settings of this printer driver so that they may be imported into a different or freshly installed printer driver.

Section 3.1.2 Preset

3.1.1 Registering a new stock or editing the existing stock

By clicking either [New] or [Edit], the following screen will appear.

To register a new stock, click [New] and enter the stock name and the size.

To edit the label stock already on the list, click [Edit]. The changes will be applied to the other printer drivers' stock information.

Edit Stock	
Stock <u>N</u> ame: New Stock Type: Die-Cut Labels	Preview
Label Size <u>Wi</u> dth: 4.09 in Height 2.92 in	
Exposed Liner Widths Left: 0.05 in Bight: 0.05 in	
Automatic Preset Selection	
	OK Cancel Help

Stock

Name

Displays the stock name. When a new stock is registered, any stock name can be set. (2-byte characters are acceptable.)

• Type

Select the paper type.

In case of using a Standard label, set Die-cut label or Continuous (Fixed Length) as paper type. In case of using a Continuous paper media, set Die-cut label or Continuous (Fixed Length) or Continuous (Variable Length) as paper type.

The paper feed length will vary based on the printable data length.



Displays the advanced stock properties.

Advanced Stock Properties
Stock
ID: 257
OK Cancel Help

• ID

Displays the ID for the stock being edited. (257 to 32767)

Change the stock ID if mismatching in the stock IDs between the older printer driver and the new one causes an error. For example, when printing is performed from the application which manages stock types for Excel, Access, etc. by their stock IDs assigned by the older printer driver, a wrong stock may be selected even though the correct one has been registered.

Label Size

• Width, Height

Specifies the height and width of a label stock size.

Exposed liner width

• Left, Right

Specifies the distance between the edges of the paper backing and the edges of the label. (Set the same value for the left and right.)

Note: For the B-SP2D, B-419 and B-431 models, set both the exposed liner widths to 0 mm. Instead, set the label width to the 'effective print width + left and right exposed liner width'. Adjust the print position on the label format with the application.

Automatic Preset Selection

Selecting stock loads settings from preset

Specifies whether to designate preset print settings for the selected stock.

However, this feature is unavailable and invisible unless a preset setting file has been registered. When invisible, the printer behaves in the same way when this feature is unselected.

When this check box is unchecked, printing is performed according to the current settings, regardless of the stock type.

When checked, printing is performed based on the preset settings designated for each stock type.

<Procedure>

- (1) Set the print settings, such as sensor fine adjustment and print density adjustment, for the selected stock, and save them as a preset setting file. (* 3.1.2 Preset.)
- (2) Select the "Selecting stock loads settings from preset" check box and choose the created preset file from the list.
- (3) When a stock for which a preset has been designated is used, the print settings saved in such preset file are called and reflected in printing.
- **Note**: When this feature is used under the condition more than one stock type is used in turns, designate a preset for each stock type to be used one by one.

Presets need to be created for each printer driver. Since the stock types are shared among different printer drivers, care must be taken not to designate different presets for the same stock type registered to each printer driver.

Be sure to create a preset and stock type in pairs for each printer driver.

In the case of the standard stock types, the preset settings are not succeeded with the import/export functions. Therefore, it is necessary to register the preset settings again after exporting.

3.1.2 Preset

By clicking [Manage] in the Page Setup page, the following screen display will appear to allow you to manage the printer settings with a name.

Presets			
Presets allow you to save your print settings with a name so that you can quickly switch between different configurations.			
Preset List	Preset Information		
<current settings=""></current>	N <u>ame:</u> <default settings=""></default>		
<default settings=""></default>	Description:		
	This preset contains this driver's 🛃 original default settings.		
~			
Preset Management	Delete		
ОК	Cancel Help		

Preset Management

• New

After configuring the necessary print settings for a selected stock, click [New], name these print settings to manage them as a preset, and enter a description of these settings in the "Description" box. Click [OK] to save.

Settings saved:

[Page Setup] tab:	Label size
	Orientation
	Effects
	Advanced setting
[Graphics] tab	Dithering
[Stock] tab	Print method
	Issue mode
	Print speed
	Fine adjustment
[Option] tab	Graphic options
	Print density adjustment
	Feed adjustment
	Multiple Part Print Area Settings
	Ribbon Adjustments

Delete

Clicking [Delete] enables deletion of a selected preset name. When [OK] is clicked, the changes are saved.

• Update

To reflect the changes in the settings of the existing preset, select the preset name and click [Update]. When [OK] is clicked, the changes are saved.

3.1.3 Advanced Options

Clicking [Advanced Options] button allows control of the printer options for which the printer driver does not provide explicit control.

Printing Position

Position Adjustment tab

Horizontal Offset

Enables adjustment of the print position in the horizontal direction. Since this feature is not supported, do not change the default setting.

Vertical offset

Enables adjustment of the print position in the vertical direction. Since this feature is not supported, do not change the default setting.

Orientation Adjustment

Default Orientation

Enables specifying the default orientation.

0º: Bottom first

180°: Top first

Since this feature is not supported, do not change the default setting.

User Commands tab

You can program printer command strings which are to be sent to the printer at "Start of Job", "Start of Label", "End of Label" or "End of Job" to make up for the functions that cannot be covered by this printer driver.

Supplement: For details of the commands, refer to the External Equipment Interface Specification.

Advanced Options ? 🔀		
Printing Position User Commands Driver Options		
User Commands Start of Job Start of Label End of Label End of Job		
Eunction Character: The function character is used to insert control characters in both user commands and bar code fonts.		
OK Cancel Apply Help		

Advanced Options	? 🗙
Printing Position User Commands Driver Options Position Adjustment Horizontal Offset: 0.00 in	
Vertical Offset: 0.00 in	
Orientation Adjustment Default <u>O</u> rientation: O*	
	Help

• Function Character

When a barcode font is used for printing, use of the function character enables encoding binary data. The default setting is a caret [^] (5EH).

The following explanation is based on an assumption that the caret [[^]] (5EH) is used.

Entry in hex. format
^#nn
<example> To specify binary data of 00 to 06:</example>
^00^01^02^03^04^05^06

Entry with abbreviation

^<ccc>

<Example> To specify binary data of 00 to 06:

^<NUL>^<SOH>^<STX>^<ETX>^<EOT>^<ENQ>^<ACK>

Entry of the function character

When using the function character as barcode data, send the function character twice.

^

Binary data	1
<nul> 00</nul>	<dle> 10</dle>
<soh> 01</soh>	<dc1> 11</dc1>
<stx> 02</stx>	<dc2> 12</dc2>
<etx> 03</etx>	<dc3> 13</dc3>
<eot> 04</eot>	<dc4> 14</dc4>
<enq> 05</enq>	<nak> 15</nak>
<ack> 06</ack>	<syn> 16</syn>
<bel> 07</bel>	<etb> 17</etb>
<bs> 08</bs>	<can> 18</can>
<ht> 09</ht>	 19
<lf> 0A</lf>	_{1A}
<vt> 0B</vt>	<esc> 1B</esc>
<ff> 0C</ff>	<fs> 1C</fs>
<cr> 0D</cr>	<gs> 1D</gs>
<so> 0E</so>	<rs> 1E</rs>
<si> 0F</si>	<us> 1F</us>
	 7F

Driver Option tab

Device Line Substitution

• Enable Substitution

This option allows selecting whether or not to substitute a line drawn in a print image with a Line Command.

When this check box is not checked, the line is processed as a Graphic Command. When checked, the line is drawn using the printer's line drawing function, which may result in higher throughput.

• Minimum Length

The minimum length of a line that is to be recognized as a Line Command. The line shorter than this value is processed as a Graphic Command.

Advanced Options
Printing Position User Commands Driver Options
Device Line Substitution
Enable Substitution
Minimum Length: 0.25 in
Software Compatibility These settings only need to be adjusted in rare circumstances with certain applications. Do not change the defaults unless instructed by a
support technician. Default Copies: 1
Disable Copies Limit
Disable User-Defined Paper Size
OK Cancel Apply Help

Note: Some applications do not always print correctly with this feature enabled. In such case, remove the check from the check box.

Software Compatibility

Default Copies

The number of labels to be printed as default. Unless this number is changed with the application, this value will be effective.

• Disable Copies Limit:

When this check box is selected, a value greater than 9999 can be set for Default Copies. Since this feature is not supported, do not change the default setting.

• Disable User-Defined Paper Size:

This feature disables the user-defined paper size "USER". When this check box is selected, "USER" cannot be used. Since this feature is not supported, do not change the default setting. Not sharing the paper size.

This setting is for sharing the paper size list between each printer or not when multiple printers are added. When it is checked, the paper size will not be shared between each printer.

• Disable paper size sharing:

This feature is for selecting share/not share the paper size list between each printer when multiple printers are added.

When enabled, paper size will not be shared between the printers.

3.1.4 Double-sided Printing

🖶 TOSHIBA DB-E	A4D Printing Preference	s 💌		
Page Setup Grap	ohics Stock About			
Stock Name: USER (4.00 in x 4.00 in)				
	New Edit	Delete		
Preview	Orientation	Effects		
	Portrait	Mirror Image		
ALE	Landscape Portrait 180°	Negative		
	 Fontal 180 Landscape 180° 			
Preset	ault Settings>	▼ Manage		
Double-Sid	Double-Sided Printing Advanced Options			
© 1999-2012 Toshiba TEC Corporation.				
© 2011-2012 Seagull Scientific, Inc., Authors of the BarTender® label software.				
	OK Cancel	Apply Help		

Clicking [Double-sided Printing] on the Page setup page enables double-sided print settings

Printing on Both Sides		
Print on both sides		
Rotate back side 1	.80°	

Printing on Both Sides

• Print on Both Sides

Select this check box enables the double-sided printing feature on the printer

• Rotate back side 180°

Select this check box rotates the printed output on the back side of the stock so that the top of the image comes out of the printer first.

Orientation	Rotate back side 180°	Front side	Back side
Portrait	Enable		
	Disable		
Dertecit 100%	Enable	VE VE UE	
Portrait 180°	Disable		

3.2 Graphics Tab

Clicking the [Graphics] tab enables adjustment of dithering or color tone.

💩 TEC B-SA4T (300 dpi) Printing Preferences	? 🗙
Page Setup Graphics Stock Options About	
Resolution: 300 dpi x 300 dpi	~
Dithering	
O None O Halftone	
O <u>E</u> rror Diffusion	
Color Adjustment <u>D</u> ithering Setup	
Color	
Color Control: Monochrome	~
Color <u>M</u> atching:	~
Color Registration Color <u>S</u> etup	
OK Cancel Apply	Halp
OK Cancel Apply	Help

Resolution

Enables selecting the print head resolution. Only the resolutions supported by the printer model can be specified.

Dithering

Enables creating the illusion of different shades of gray by varying the pattern of dots. The more dither patterns that a device or program supports, the more shades of gray it can represent.

- None
- Halftone
- Ordered
- Algebraic
- Error Diffusion

When [Dithering Setup] is clicked, you can select an algorithm from multiple options. The algorithm differs according to the dithering patterns.

Color Control

Enables selecting whether to print monochrome or color.

3.3 Stock Tab

Clicking the [Stock] tab allows setting various print conditions specific to the printer, such as the media settings, issue settings, and fine adjustments.

🍓 TEC B-SA4T (300 dpi) Printing Preferences	? 🗙		
Page Setup Graphics Stock Options About			
Media Settings <u>Print Method</u> : Thermal Transfer ✓			
Sensor: None 🗸			
Label <u>G</u> ap: 0.08 in			
Issue Settings			
Issue Mode: Batch Mode (with Back Feed)	×		
Post-Print Action: None	¥		
	~		
Interval:			
Print <u>S</u> peed: 6.00 in/sec			
Fine Adjustment Set Feed: 0.00 in Cut/Strip: 0.00 in Backfeed: 0.00 in Print Shrinkage: 0			
OK Cancel Apply	Help		

Media Settings

• Print Method

Enables selecting the print method.

- Direct thermal
- Direct thermal (Head up)
- Thermal transfer
- Thermal transfer (Ribbon save)

"Thermal transfer (Ribbon save)" is available only to the printer supporting the ribbon saving function.

"Direct thermal (Head up)" is available only to the RFID-enable printer. The print head is lifted to avoid RFID tag embedded area to protect the RFID tag. If you select "Direct thermal (Head up)" for non RFID-enable printer, an error occurs on the printer.

Sensor

Enables selecting a sensor type.

- None
- Reflective
- Transmissive
- Transmissive (Manual Threshold)
- Reflective (Manual Threshold)
- Transmissive (Clothing Tags)
- · Lower Reflective (Black mark on the reverse side)
- Lower Reflective (Manual Threshold)
- Upper Reflective (Black mark on the print side)
- Lower Reflective (Punch hole)

Select "Transmissive (Preprinted Labels)" or "Reflective (Manual Threshold)" when the threshold has been set through the key operation in the printer system mode.

"Transmissive (Clothing Tags)" is available for B-431 only.

"Lower Reflective (Black mark on the reverse side)", "Lower Reflective (Manual Threshold)", "Upper Reflective (Black mark on the print side)" and "Lower Reflective (Punch hole)" are selectable for B-852 or B-852R.

• Label Gap

Enables setting the inter-label gap size. In the case of tag paper, enter the non-printable area size.

Issue Settings

- Issue Mode
 - Batch Mode (with Back Feed)
 - Strip Mode (with Back feed)
 - Strip Mode (when using the applicator)
 - Partial Cut (without Back Feed)
 - Batch Mode
 - Cut Mode

When the cutter unit is installed on the printer to perform the cut issue, select "Batch Mode (with Back Feed) or "Cut Mode".

When the strip module is installed on the printer to perform the strip issue, select "Strip Mode (with Back Feed)" or "Strip Mode (when using the applicator)".

When "Partial Cut (without Back Feed)" is selected, this option will be always specified.

Post-Print Action

Enables selecting whether the cut operation is performed or not.

- None
- Cut
- Partial Cut
- Partial Cut and Pause
- Cut and Pause
- Pause
- Linerless Cut
- Linerless Cut and Pause

When "Partial Cut" is selected, "Partial Cut (without Back Feed)" will be always set for the Issue Mode. When "Linerless Cut" is selected, "Batch Mode (with Back Feed)" will be always set for the Issue Mode.

"Partial Cut and Pause", "Cut and Pause", "Pause" and "Linerless Cut and Pause" are not supported at present.

Occurrence

Enables specifying how often labels should be cut. If "Strip Mode (with Back Feed)" is selected for the Issue Mode, this feature is disabled.

- After every page ------Cuts labels after each label is finished printing.
- After specified interval ------Cuts labels after the number of labels specified in the Interval setting.
- After specified interval (Per Page)-----Cuts labels after the number of labels specified in the interval setting and at the end of the identical copy.
- After identical copies ------Cuts after the identical copy is finished printing.
- After job ------ Cuts labels only after the entire print job is finished printing.
- After specified interval -------If the special printer control (partial cut, etc.) is required, cuts labels after (depending on printers)

Example: 4 pages are issued by 5 copies each

	Cut Interval	▲: Cut operation
Every page		1▲1▲1▲1▲1▲2▲2▲2▲2▲2▲3▲3▲3▲3▲3▲3▲4▲4▲4▲4▲4
Specified interval	3	1 1 1 ▲ 1 1 2 ▲ 2 2 2 ▲ 2 3 3 ▲ 3 3 3 ▲ 4 4 ▲ 4 4 ▲
Specified interval (Per page)	3	1 1 1 ▲ 1 1 ▲ 2 2 2 ▲ 2 2 ▲ 3 3 3 ▲ 3 3 ▲ 4 4 ▲ 4 4 ▲
Identical copies		1 1 1 1 1 4 2 2 2 2 2 4 3 3 3 3 3 4 4 4 4 4
After job		1 1 1 1 2 2 2 2 2 3 3 3 3 4 4 4 4 4
Specified interval (depending on the printers)	3	1 1 1 ▲ 1 1 ▲ 2 2 2 ▲ 2 2 ▲ 3 3 3 ▲ 3 3 ▲ 4 4 ▲ 4 4 ▲

Interval

Enables specifying the cut interval.

• Print Speed

Enables specifying the print speed. Selectable speed differs according to the printer models.

■ Fine Adjustment

Set

When the "Set" check box is selected, you can set fine adjustment values. When the "Set" check box is not selected, the adjustments are grayed out and the printer operates according to its current settings.

Adjustable settings differ depending on the printer models.

- Feed
- Backfeed
- Cut/Strip
- Print Shrinkage

• Feed

Specifies the length of label stock that will feed after printing.

Backfeed

Specifies the length of label stock that is retracted before printing.

Cut/Strip

In the case of the cut issue, this specifies the length of label to feed before cutting the label. In the case of the strip issue, the length of label to feed before peeling the label is specified.

Print Shrinkage

Used to compensate for label print shrinkage or expansion.

3.3.1 DB-EA4D Stock Tab

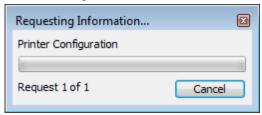
Clicking on [Double-sided Printing] on the Page setup page enables double-sided print settings.

🖶 TOSHIBA DB-EA4) Printing Preferences	-X
Page Setup Graphic	s Stock About	
Configuration		
	button to view and/or change various printer e stock type, print speed, or darkness.	
Configur	e	
Media Handling	-	
Media Type:	Use Current Printer Setting	
Post-Print Action:	None	
Occurrence:	▼	
Interval:		
ОК	Cancel Apply He	lp

■ Configuration

• Configure

Click "Configure...", the below window will be shown during communicating with printer.



3.3.1.1 Printer Configuration

Media

The "Printer Configuration" screen appears and the current settings can be found in "Media Settings" as shown below.

Printer Configuration	n	? <mark>-</mark> X-
Media Options		
-Media Settings -		
Print Method:	Direct Thermal 💌	
Media Type:	Continuous	
Form Width:	80 mm 🔻	
Form Length:	8.27 in	
Cut Offset:	(Black mark media only)	
	Cancel Apply	Help

In order to change its configurations, follow the operations below.

• Print Method

This setting cannot be changed.

• Media Type

- 5 options are available for "Media Type".
- Continuous
- Labels With Gaps
- Labels With Black Marks
- Labels With Perforation
- Cut Sheet

• Form Width

4 options are available for "Form Width".

- 58 mm
- 80 mm
- 4 in
- 5.1 in

• Form Length

About "Form Length", you can input in the text box.

Cut Offset

If you select "Labels With Black marks" for "Media Type", you can define "Cut Offset" which is the distance between black mark and the cut position.

Option

Select the [Options] tab to see the current configuration of "Print Speed" and "Darkness" as shown below.

Printer Configuration	?
Media Options	
Print Speed	
Use variable print speed	
Print Speed: 4.00 in/sec -	
Darkness	
Front Head:	7
Back Head:	- 7
OK Cancel Apply	Help

Print Speed

In case "Variable Print Speed" is disabled, "Print Speed" is available from 3.00in/sec to 6.00in/sec In case "Variable Print Speed" is enabled, printer will automatically adjust its printing speed. But you can specify printer's "Maximum Print Speed" from 3.00in/sec to 6.00in/sec.

Darkness

About "Darkness" option, move the slider to left/right to change its configuration.

Media Handling

Media Type

- Select the media type.
 - Use Current Printer Setting (Default)
 - Continuous
 - Labels With Gaps
 - Labels With Black Marks
 - Labels With Perforation
 - Cut Sheet
- Post-Print Action

Enables selecting whether the cut operation is performed or not.

- None
- Cut

Occurrence

Enables specifying how often labels should be cut.

- After every page ------Cuts labels after each label is finished printing.
- After specified interval ------Cuts labels after the number of labels specified in the Interval setting.
- After specified interval (Per Page)------Cuts labels after the number of labels specified in the interval setting and at the end of the identical copy.
- After identical copies ------Cuts after the identical copy is finished printing.
- After job ------ Cuts labels only after the entire print job is finished printing.

Example: 4 pages are issued by 5 copies each

Single-sided printing

	Cut Interval	▲: Cut operation
Every page		1 4 1 4 1 4 1 4 2 4 2 4 2 4 2 4 2 4 3 4 3 4 3 4 3 4 3
Specified interval	3	1 1 1 1 1 2 2 2 2 2 2 2 3 3 3 3 3 4 4 4 4 4
Specified interval (Per page)	3	1 1 1 ▲ 1 1 ▲ 2 2 2 ▲ 2 2 ▲ 3 3 3 ▲ 3 3 ▲ 4 4 4 ▲ 4 4 ▲
Identical copies		1 1 1 1 1 4 2 2 2 2 2 4 3 3 3 3 3 4 4 4 4 4 4
After job		1 1 1 1 2 2 2 2 2 3 3 3 3 4 4 4 4 4

Double-sided printing, (Front / Back)

	Cut Interval	▲: Cut operation
Every page		1/2 ▲ 1/2 ▲ 1/2 ▲ 1/2 ▲ 3/4 ▲ 3/4 ▲ 3/4 ▲ 3/4 ▲ 3/4 ▲
Specified interval	3	1/2 1/2 1/2 ▲ 1/2 1/2 3/4 ▲ 3/4 3/4 ▲ 3/4 ▲ 3/4 ▲
Specified interval (Per page)	3	1/2 1/2 1/2 ▲ 1/2 1/2 ▲ 3/4 3/4 3/4 3/4 ▲ 3/4 ▲
Identical copies		1/2 1/2 1/2 1/2 1/2 ▲ 3/4 3/4 3/4 3/4 3/4 ▲
After job		1/2 1/2 1/2 1/2 1/2 3/4 3/4 3/4 3/4 3/4 ▲

Interval

Enables specifying the cut interval.

3.4 Options Tab

Models other than B-EP2DL-G, B-EP4DL-G, B-FP3D and B-FP2D

🖢 TOSHIBA B-EX4	T1 (305 dpi) Printing Preferences	?×	STEC B-EP2DL-G Printing Preferences	? 🛛
Page Setup Graphi	ics Stock Options About		Page Setup Graphics Stock Options About	
- Graphic Options - Transfer <u>M</u> ode:	TOPIX Compression		Graphic Options Transfer <u>M</u> ode: TOPIX Compression	~
Print Density Adju:	stment		Print Density Adjustment	
<u>D</u> irect Thermal:	0		<u>S</u> et 	
<u>I</u> hermal Transfer:	0		Head Output Division:	~
Feed Adjustment Set Feed Adjustment:	0.39 in			
- Supply Options-				
Energy Type:	Use Current Printer Setting	~		
Thres <u>h</u> old Type:		~		
Ribbon Adjustme	ents			
40	Cancel Apply	Help	OK Cancel Apply	Help

B-EP2DL-G, B-EP4DL-G , B-FP3D and B-FP2D

Graphic Options

• Transfer Mode

Allows selecting the method used to download graphics to the printer. Basically, select the "TOPIX compression" mode.

The "TOPIX compression (XOR)" method improves the throughput by processing only a different part from the previous page. Choose this option when you print a fixed format partly including variable data. However, the throughput may not improve depending on the image to be printed.

Print Density Adjustment

When the "Set" check box is selected, you can set the print density (print head voltage) for each of Direct thermal and Thermal transfer.

When the "Set" check box is not selected, the printer operates according to its current setting.

For B-EP2DL-G, B-EP4DL-G, B-FP3D and B-FP2D, the "Head Output Division" feature is provided, which enables properly changing the print quality and print speed depending on the selected print head control. When the Set" check box is not selected, the printer operates according to its current setting.

Feed Adjustment

When the "Set" check box is selected, you can set the length of the label the printer automatically feeds after printing. Before printing the next label, the printer will automatically feed the label in the reverse direction to the print start position.

When not checked, the printer operates according to its current setting.

This feature is not available to B-EP2DL-G, B-EP4DL-G, B-FP3D and B-FP2D.

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Supply Options

Allows setting the printing energy for each of "Direct thermal" and "Thermal transfer". When "Use Current Print Setting" is selected, the printer operates according to the currently selected setting. Selection of "Direct thermal" or "Thermal transfer" depends on which is selected for "Print Method" on the Stock page.

Ribbon Adjustments

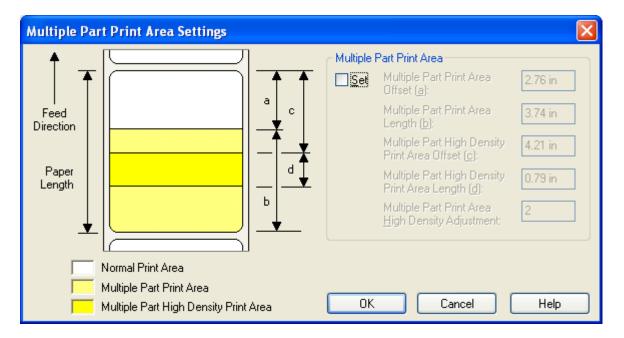
When the thermal transfer method is selected, setting the conditions related to the ribbon is allowed. (* 3.4.2 Ribbon Adjustments.)

Multiple Part Print Area Settings

Enables setting the duplicate print area on double-layer thermal paper. This feature is available only to B-419 and B-EV4 (203 dpi). For B-EV4 (203 dpi), "Variable Speed A" or "Variable Speed B" specified for the "Print Speed" on the Stock page is reflected in the printer behavior.

3.4.1 Multiple Part Print Area Settings (B-EV4 (203 dpi) only)

Clicking "Multiple Part Print Area Settings" on the Options page enables setting the duplicate print area properties for the double-layer thermal paper.



Multiple Part Print Area

When the "Set" check box is selected, you can specify the details of "Multiple Part Print Area". "Multiple Part Print Area" is the area where the printer prints both sheets of the double-layered thermal paper at the same time by applying the higher print energy.

When the "Set" check box is not selected, the printer operates according to its current settings.

Multiple Part Print Area

Enables setting "Multiple Part Print Area Offset (a)" (X-coordinate of the multiple part print area start position) and "Multiple Part Print Area Length (b)". The print on the specified area will become darker than the normal print areas.

- Multiple Part Print Area Offset: 0.0 mm to 390.0 mm
- Multiple Part Print Area Length: 0.0 mm to 390.0 mm

Multiple Part High Density Print Area

Enables setting "Multiple Part High Density Print Area Offset (c)" (X-coordinate of the multiple part high density print area start position) and "Multiple Part High Density Print Area Length (d)".

This area is to be printed with much higher print energy than the multiple part print area to enable clearly printing small or fine characters and barcodes on the second sheet. The extra energy level can be specified by entering a value in "Multiple Part Area High Density Adjustment". (If "Multiple Part Area High Density Adjustment" is set to "0", which means no difference, and both areas are printed with the same print density.)

- Multiple Part High density Print Area Offset: 0.0 mm to 390.0 mm
- Multiple Part High density Print Area Length: 0.0 mm to 390.0 mm

Multiple Part Print Area High Density Adjustment

Enables specifying how much extra energy is applied for "Multi Part Print High Density Area" than the "Multiple Part Print Area".

• Multiple Part Print Area High Density Adjustment: 0 to 10

Supplement:

- 1. Duplicate printing is available only to double-layer thermal paper. Triple- or more layer paper is not accepted.
- 2. If the print on the second sheet is too light, specifying this print area as "Multiple Part High Density Print Area". Doing this improves the print result.
- 3. It is possible to specify "Multiple Part Print Area" and "Multiple Part High Density Print Area" independently.
- 4. It is not necessary to specify both "Multiple Part Print Area" and "Multiple Part High Density Print Area".
- 5. "Multiple Part High Density Print Area" is not necessarily within "Multiple Part Print Area".
- 6. The Print Density Adjustment value, set in the Options page, is reflected in "Multiple Part Print Area" and "Multiple Part High Density Print Area".
 - Print density of normal print area =
 - Print density for "Multiple Part Print Area" =
 - Print density for "Multiple Part High Density Print Area" =

: Print density adjustment value

: Standard print density for "Multiple Part Print Area"

: Fine adjustment value for "Multiple Part High Density Print Area"

3.4.2 Ribbon Adjustments

Clicking [Ribbon Adjustments] on the Options page enables ribbon settings.

Ribbon A	djustments 🔀
Ribbon Ty	ype
S <u>e</u> t	
Type:	
-Ribbon M	otor Voltage Adjustment
	Rewind Motor: 0
	Back Tension Motor: 0
	OK Cancel Help

Ribbon Type

When the "Set" check box is selected, configurations related to the ribbon is allowed. When the "Set" check box is not selected, the printer operates according to the currently selected settings. This menu is provided only to the models for which a ribbon type is selectable.

• Type

Enables selecting a ribbon type used on the printer. Selectable ribbon types are different depending on the printer model.

Ribbon Motor Voltage Adjustment

When the "Set" check box is selected, the ribbon motor voltage can be adjusted for preventing ribbon wrinkles. When the "Set" check box is not selected, the printer operates according to the currently selected settings.

• Rewind Motor

The rewind motor which drives the ribbon take-up core takes up the used ribbon. When the value is reduced, the rewind motor torque turns down, causing a decease in the ribbon tension. The setting value range varies depending on the printer model.

Back Tension Motor

The back tension motor which drives the ribbon feed core pulls the ribbon backward to maintain the ribbon tension.

When the value is reduced, the back tension motor torque turns down, causing a decrease in the ribbon tension. The setting value range varies depending on the printer model.

3.5 Fonts Tab

Clicking [Fonts] tab of the Properties screen enables adding, deleting, modifying, importing, exporting and viewing currently defined barcode fonts. These fonts will be listed in many Windows applications that normally do not support printing barcodes. Although they will not appear as barcodes on the screen, they will print as barcodes. An unlimited number of bar fonts can be created, each of which may have different barcode parameters.

Notes:

- Barcode fonts need to be registered to each printer driver. In the case you print on a shared printer, register barcode fonts to both the client PC and the printer server PC. It is not possible to share the barcode fonts between the client PC and the printer server PC. The Import and Export features are useful to easily register the barcode font list to other printer drivers. Refer to *Driver Options.*
- 2. To use Kanji as barcode font, click the [Tools] tab, [Configure], select "Printer Options" and set "ESC/LF/NUL" for the Control Codes.
- 3. Chinese Gothic and Chinese Serif are not supported in B-EX4T3 (600 dpi).

👹 TEC B-SA4T (300 dpi)	Properties	? 🛛
General Sharing Ports A	Advanced Se	curity Fonts Tools About
Font View View	s 🕶	
Name	Туре	Information
BarFont Code128 BarFont PDF417 BarFont UPC:A Legacy Outline Font 2 Legacy Outline Font 3	Bar Code Bar Code Bar Code Optional Optional	Code 128 PDF417 UPC-A Legacy outline font 2 Legacy outline font 3
Font Properties Total Fonts: 5		
ОК	Cancel	Apply Help

Font

Enables adding, deleting and editing the barcode fonts.

Downloa	ad Font
New Op	tional Font
New Us	er-Defined Optional Font
New For	nt Substitution
New Ba	r Code Font
New RF	ID Font
Edit	
Delete	

New Bar Code Font

Enables adding a new barcode font to the list. There is no limit for the number of barcode fonts to be registered.

@ Refer to Section 3.5.1 Bar code Font.

Edit

Enables modifying the currently selected barcode font.

Select a barcode font and open the "Bar Code Font" screen by clicking [Font] and "Edit" or right-clicking the font and selecting "Edit".

• Delete

Enables deleting the currently selected barcode font.

Select a barcode font, then click [Font] and "Delete" or right-click the font and select "Delete".

■ View

Enables filtering the barcode font types to display. "Resident Fonts" and "Bar Code fonts" are available.

	Resident Fonts
è	Downloaded Fonts
è	Optional Fonts
è	Font Substitutions
	Bar Code Fonts
è	RFID Fonts

Supplement: The barcode font list on the [Fonts] page only shows the font types usable by the applicable printer driver. Barcode fonts registered to other printer driver installed in the same PC are not displayed.

Tools

Enables setting the resident fonts and the printer driver options.

supported, do not change the default setting.

Tools -	Font Settings	? 🔀
Verify Downloaded Fonts Resend Downloaded Fonts	Resident Fonts Utility Fonts Encoding	
Installed Features Font Settings	Scalable Font Settings List Scalable Fonts List Condensed and Expanded Widths	
Driver Options	List Specified Scale Factors Percentages:	
Resident Fonts tab	Bitmap Font Settings	
Scalable Font Settings	✓ List <u>B</u> itmap Fonts	
List Scalable Fonts : When this check box is selected, the scalable fonts (outline fonts) can be used on the application. When this is not selected, the scalable fonts cannot be used.	 Simulate Scalable Fonts List Magnifications List Condensed and Expanded Widths Compatibility Settings 	
List Condensed and Expanded Widths: When this check box is selected, scalable fonts (outline fonts) with the width condensed or expanded can be used.	List Multiple C <u>h</u> aracter Set Fonts Separately	
List Specified Scale Factors : When this check box is selected, the scalable fonts (outline fonts) with the width reduced or enlarged at an optional scale factor can be used. Since this feature is not	OK Cancel Apply	Help

Percentages: Selecting the "List Specified Scale Factors" check box enables specifying a scale factor. Since this feature is not supported, do not change the default setting.

Bitmap Font Settings

List Bitmap Fonts: When this check box is selected, the bitmap fonts can be used on the application. When this is not selected, the bitmap fonts cannot be used.

Simulate Scalable Fonts: When this check box is selected, the size of bitmap fonts can be specified to the same size of outline fonts. Since this feature is not supported, do not change the default setting.

List Magnifications: When this check box is selected, magnified bitmap fonts can be used.

List Condensed and Expanded Widths: When this check box is selected, bitmap fonts with the width condensed or expanded can be used.

Compatibility Settings

List Multiple Character Set Fonts Separately: When this check box is selected, printer font data can be printed with another code page.

Utility Fonts tab

Supplement: Utility font do not correspond to actual text fonts on the printer, but are used to control advanced printer features, such as barcodes, RFID and sending direct commands to the printer.

• Utility Font Settings

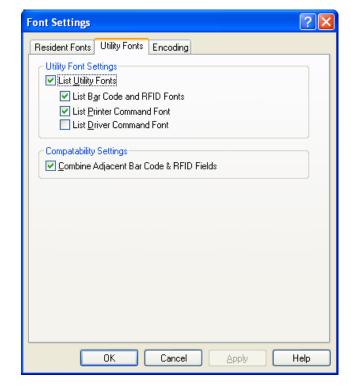
List Utility Fonts: When this check box is selected, the utility fonts can be used on the application.

When this is not selected, the utility fonts cannot be used.

List Bar Code and RFID Fonts: When this check box is selected, barcode fonts and RFID fonts can be used. However, the RFID fonts is not supported.

List Printer Command Font: When this check box is selected, specified data can be sent to the printer as it is.

List Driver Command Font: When this check box is selected, the font used to generate commands from data in the specified format can be used. Since this feature is not supported, do not change the default setting.



Compatibility Settings

Combine Adjacent Bar Code & RFID Fields: When this check box is selected, it is possible to prevent one barcode font from being separated into two or more barcodes when using a specific application such as MS Word and PowerPoint.

If data beginning or ending with a space is printed in a barcode font, such a space is deleted from the data. Also, when the same barcode font and the same Y position are specified for different data, they are all connected.

This feature is enabled as default. When unnecessary, you may disable it.

Encoding tab

• Text Encodings

Enables setting the code page for the data to be printed in the resident fonts. Wrong code page setting causes the printer not to print properly. Since this feature is not supported, do not change the default setting.

In the case the code page of B-850, B-852, or Arabic is selected for the printer, the data is printed as it looks with the printer font. But unsupported characters are not processed as the printer font. For the code page other than B-850, B-852 and Arabic, some characters may not be printed as they look or processed as the printer font.

Only the characters in the code page provided in the External Equipment Interface Specification of each printer model are usable.

Font Settings
Resident Fonts Utility Fonts Encoding
Text Encodings
Code Page Description 850 Western (0EM) 936 Simplified Chinese (ANSI, GB2312) 932 Japanese (ANSI, ShiftJIS)
The order encodings are listed is the order of preference for fonts that support multiple encodings, and may be rearraged using drag and drop. The default settings should work for most applications.
Encoding Selection Method O Automatically select best encoding for each text field
Always use first supported encoding
Reset To Defaults
OK Cancel Apply Help

3.5.1 Bar Code Font

When clicking [Font] in the [Fonts] page and selecting "New Bar Code Font", the following screen appears to enable addition of a new barcode font.

Also, you can modify the registered barcode font properties. First select the barcode font to edit, then click [Font] in the [Fonts] page and select "Edit" or right-click the barcode font and select "Edit" to open the Bar Code Font screen.

Bar Code Font		×
Font		
Font <u>N</u> ame:	New Bar Code Font <u>W</u> idth: Normal	~
Encoding:	Western (ANSI 1252) Join Multiple Lines	
Bar Code Option:	S	
Symbology:	Code 39 - Full ASCII	*
X Dimension:	16.7 mils <u>O</u> rientation: O°	*
<u>H</u> uman Readable	Below Bars Ratio: Auto	~
Symbology Speci	ific Options	
	OK Cancel Help	

Font

Font Name

Enables entering a barcode font name using alphanumeric characters, Kanji or Kana.

• Encoding

Enables specifying the code page for encoding characters. In the case 2-byte characters like Kanji are used, specify "Japanese".

• Join Multiple Lines

When this check box is selected, multiple-line data specifying the same barcode font is combined into a single barcode. This allows paragraph text to be encoded into one barcode. When this setting is not enabled, each row of text will generate a separate barcode.

Supplement: All texts specifying the same barcode font in a page are combined and printed as one barcode.

Width

Enables specifying the width of the text data, to be encoded into a barcode, on the application screen.

Supplement: This feature is useful when the text data does not fit in a page. Depending on the applications; however, this feature may not work. In that case, or when encoding a large number of texts in a single barcode, enable "Join Multiple Lines".

Bar Code Options

Symbology

Enables selecting a type of the barcode or two dimensional code from the following.

- Code 39 Full ASCII
- Code 39 Regular
- Code 93
- Code 128
- Codabar (NW-7)
- Data Matrix
- EAN/JAN-8
- EAN/JAN-13
- GS-1 Composite
- GS-1 DataBar (RSS)
- Interleaved 2-of-5(ITF)
- Japanese 4-State Customer Code
- KIX 4-State Customer Code
- MaxiCode
- MicroPDF417
- Micro QR Code
- MSI Plessey
- PDF417
- QR Code
- Royal Mail 4-State Customer Code
- UPC-A
- UPC-E
- US POSTNET (Zip, Zip+4, & DPBC)
- USPS Intelligent Mail (4State-Customer-Code)

X Dimension

Enables specifying the width of a narrow bar or a cell. (It differs depending on the printer models or selected barcode symbologies.)

Supplement: The height of a barcode is adjustable by specifying the font size on the application.

Human Readable

Enables specifying the visibility of the human readable characters displayed with the barcodes on the labels. (Depending on the barcode symbologies, this feature may not be available.)

- None
- Below Bars

Orientation

Enables specifying the orientation of the barcode on the label.

- 0°
- 90°
- 180°
- 270°

Ratio

Enables specifying the wide-to-narrow element ratio of the barcode. (Depending on the barcode symbologies, this feature may not be available.)

Auto

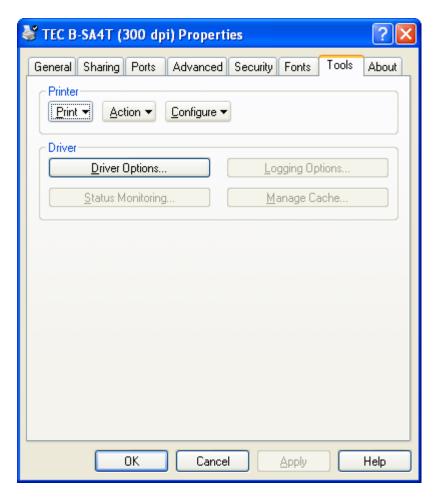
• 2.0 to 3.0

Symbology Specific Options

Enables setting options specific to the selected barcode symbology.

3.6 Tools Tab

Clicking the [Tools] tab enables testing the printer operations or setting variable options.



Printer

♦ Print



Generic test

Prints an image "TEST" on a label on the print conditions (Media size, position adjustment, sensor type, etc.) specified in Stock page. This should help verify that the computer being used is communicating with the printer.

Blank page

Prints a blank label on the specified conditions (Media size, position adjustment, sensor type, etc.)

Action

Available features differ depending on the printer models.

Form	i Feed
Cut	
Read	Printer Information
Mana	age XML Data Print Files
Rese	t Printer
Test	Print Head
Send	Printer Command
Send	File To Printer

• Form Feed

Feeds a label on the specified conditions Media size, position adjustment, sensor type, etc.)

• Cut

Cuts the label immediately.

Read Printer Information

Displays the version and option information obtained from the printer. The information to be obtained differs depending on the printer models and interfaces. This feature is not supported.

Manage XML Data Print Files

Enables managing the format, graphic and font files related to the XML data in the printer. This feature is not supported

Reset Printer

Enables resetting the printer. This is available only when the RS-232C interface is used.

Test Print Head

Allows execution of the printer's broken pins test. The test will detect if thermal elements in the print head are open. A failed test would suggest a need to replace the print head to ensure perfect print quality. Clicking this menu will bring up the display window on the right.

	Print Head Check 🛛 🔀
	Print Head Check <u>H</u> ead: Black
l	Specify Range: 0.00 in 4.09 in
	Click 'OK' to check the print head for broken dots. After about 10 seconds, check the printer's LCD display. If an error is displayed, the print head may require repair or replacement.
	OK Cancel

Send Printer Command

Allows sending the programmed printer commands to the printer. Clicking [Query] enables displaying the printer status returned in response to the printer command. The Query feature is available only when the bidirectional communication is enabled and the query commands are sent to the printer.

For details of the printer commands, refer to the *External Equipment Interface Specification* of each printer model.



Send File To Printer

Allows sending a command file directly to the printer.

♦ Configure



• Printer Options

Automatic Status Response: When this check box is selected, the printer will automatically send the status to the host at the end of print or occurrence of an error.

Note: The printer driver does not use its status. When this is not necessary, remove the check.

Printer Options						
	inter Options Automatic Statu: Include Job Info Check Comman	rmation				
CC	ommand Protocol					
<u>C</u> o	ontrol Codes:	Standard	~			
<u>S</u> t	art of Command:	{	123]		
Er	nd of Command:	1	124]		
Er	nd of <u>L</u> ine:	}	125]		
☑ Add CR/LF at end of line						
		ОК		Cancel	Help	

Include Job Information: When this check box is selected, the job information obtained from the printer through the SNMP feature is added to those to be printed. This information is displayed on the Network Tool.

Note: This feature is disabled as default. If you do not need the job information on the SNMP, do not change the default setting.

Check Command Sequence: When this check box is selected, a command, which checks whether any necessary command is missing from a command string the printer received, is attached. This function is available only to B-EV4-T and B-EV4-G.

Command Protocol

Control Codes: Enables setting the control code for the printer commands. It must be the same as the control code specified on the printer.

Note: By default, "Standard" is specified. When the Kanji code is specified for the printer font, PEF417, MicroPDF417, Data Matrix, MaxiCode or QR code, set "Control Codes" to "ESC/LF/NUL". Failure to do so causes an error.

Bluetooth Connection

In the case of Bluetooth connection using the virtual COM port, enable the checkbox.

• Delay Close

Sets the wait time before link disconnected from the data submitted.

Printer Options						
Printer Options Image: Status Response Imag						
Command Protocol						
Control Codes:	Standard	•				
<u>Start of Command:</u>	{	123				
End of Command:		124				
End of Line:	} •	125				
☑ <u>A</u> dd CR/LF at end of line						
Printer Communication						
Bluetooth Connection						
Delay Close:	1000	ms				
	ОК		Cancel	Help		

• Configure Memory

If the allocated memory sizes differ and when "Configure Memory" is clicked, the screen on the right is displayed to enable partitioning the internal memory or the expansion memory into areas of the specified size. When [OK] is clicked, the changed memory allocation will be set to the printer.

If the specified memory size is different from those of the printer, the printer automatically re-allocates in order of priority.

Memory C	onfiguratio	n				
Installed f	1 - C	3072 K			~	
Expanded	Memory:	Not Insta	lled		~	
-Memory A	llocation					
Location:		Internal F	lash I	Memory	*	
Total <u>A</u> va	ilable:	3072				
Bitmap <u>F</u> o	nts:	1024	*			
<u>T</u> rueType	Fonts:	1024	*			
F <u>o</u> rmats (1024	•			
BASIC Sto	orage:	0	*			
For <u>m</u> ats (Label Mode):	0	×			
Graphics		0	×			
		ок		Cancel		Help

• Erase Memory

When "Erase Memory" is clicked, the screen on the right is displayed to enable formatting the specified flash memory. When [OK] is clicked, the memory format is executed.

ł	Erase Memory 🛛 🔀					
	Memory					
	<u>T</u> ype:	Flash Memory 🔽				
	Location:	Internal Flash Memory 🔽				
	<u>R</u> ange:	All Areas 💌				
	Ē	rase Close Help				

Ribbon Settings

When "Ribbon Settings" is clicked, the screen on the right appears to enable fine adjustment of the ribbon motor voltages. Adjusting the ribbon motor voltage is effective to improve ribbon slack or wrinkles.

Before changing the default settings, refer to the manual of each printer model. When [OK] is clicked, the changes are sent to the printer.

Ribbon Se	ttings						
<u>R</u> ibbon:	Black	V					
CRibbon Ty	Ribbon Type						
<u>T</u> ype:	Normal						
<u>W</u> idth:		V					
⊂Ribbon M	otor Voltage Adjustment —						
Set	Rewind Motor:	0					
	Back Tension Motor:	0					
ОК	Cancel	Help					

Driver

Driver Options

Administration tab

Enables saving the settings of this printer driver in a file or importing the settings into a different or freshly installed printer driver. It also allows importing previously saved settings to replace the current settings of this printer driver.

Import: Allows reading the checked items from "Driver Setting File (*.sds)" to replace the current settings. The files of the older versions having a file extension of "sfm", "sbf", "spr" or "sdm" can be also used; however, a part of the items cannot be replaced.

Export: Allows saving the checked items in "Driver Setting File (*.sds).

Driver Option	S		? 🛛
Vetwork	de and RFID Fonts k Settings Properties Preferences izes	Regional Options	Printer Specifications
	ок с	Cancel Ap	ply Help

Reset to Defaults: Allows restoring the checked items to the factory default.

- Bar Code and RFID Fonts ······ Registered barcode fonts
- □ Network Settings ······ Setup information of the [Network Settings]
- □ Presets ······ Registered preset lists
- □ Printing Preferences ········· Settings configured in the Printer Options, Driver Options, Font Settings, etc.
- □ Stock Sizes ······ Registered stock settings

Network Settings tab

When the shared printer is installed as a network printer, its setup information or statuses can be shared between the server and the client.

This feature is not supported. To set the printer as a network printer, refer to **To print on the shared printer** and follow the procedure.

Note: Disable "Bidirectional support" on the client PC.

Driver Options ? 🔀			
Administration Network Settings Regional Options Printer Specifications			
Network Features Bidirectional Communication Configuration Sharing Status: Available			
Printing Preferences Share settings between all users Share settings between all documents			
Security Users allowed to modify settings:			
Network users allowed to modify settings:			
OK Cancel Apply Help			

Regional Options tab

Allows changing the language and units of measurement to agree with the region in which these printers are being used.

Language Selection: Allows selecting the desired language to be used.

Italian

<u>Language</u>

- Use Windows Setting
- English
- Dutch
 - Spanish • French
- GermanPortuguese (Brazil)Japanese
- Chinese (Simplified)
 Chinese (Traditional)
- Czech Norwegian
- Danish
- Polish
- Portuguese (Portugal)
 Russian
- FinnishGreekHungarian
- Swedish
- Thai
- KoreanTurkish

Driver Options	? 🔀		
Administration Network Settings Regional Options Printer	r Specifications		
Language Selection			
Language: Use Windows Setting			
Changes to the language will not take effect until the driver property sheet is closed and opened again.			
Measurement System			
Units: Use Windows Setting			
Driver settings will be displayed in the default units of measurement specified here. If you specify different units when entering a measurement into the driver, the entered value will be automatically converted to the default units.			
<u>W</u> indows Settings			
OK Cancel Apply	Help		

Measurement System: Allows selecting the desired unit of measure.

<u>Units</u>

- Use Windows Setting
- Inches
- Millimeters
- Centimeters

Windows Settings: Displays "Regional and Language Options" of Windows.

• Printer Specifications tab

Unprintable Width: Allows making minor adjustments in the horizontal positioning of the printed image on the label. Since this feature is not supported, do not change the default setting.

Model Specifications: Allows setting the specification of the printer, such as the resolution and media size. Since this feature is not supported, do not change the default settings. If they are changed, printing cannot be performed properly.

Driver Options			? 🔀	
Administration Network	k Settings	Regional Options	Printer Specifications	
- Unprintable Width-				
This setting controls the distance from the edge of the label stock to the edge of the print head. Because the default setting is the value specified by the printer manufacturer, do not change it unless you know exactly what you are doing.				
Unprintable <u>W</u> idth:		<u>R</u> es	et to Default	
Model Specifications	Override Manufacturer Defaults			
Printable Width:	4.09 in	<u>T</u> racking:	Center 💉	
- Media Size Limits				
Minimum Width:	0.39 in	Minimum Len	gth: 0.12 in	
Maximum Width:	4.65 in	Maximum Ler	ngth: 39.25 in	
OK		ancel Ap	ply Help	

Logging Options

Supports logging print jobs and recording printer code to files for debugging purposes. This feature is available only when the "Bidirectional support" is enabled.

• Logging tab

Enables recording printed pages and job history to a file or as event logs. Only the Legacy Log, created by clicking [Tools] and "Add Legacy Log", is supported.



Logging Options	? 🗙
Logging Printer Code Recording	
Logging-	
Log Name Log Type Format	
OK Cancel Apply H	Help

* The Legacy Log is saved as a txt format or a csv format file. The maximum size complies with the specification of the file system specified for the format and output destination. If no space remains, the performance will comply with the specifications of the txt or csv file and the Windows OS, resulting in an error (insufficient space for writing).

Printer Code Recording tab

Allows recording of all of the commands sent to the printer to a file. When the "Record Printer Code" check box is selected, the printer codes are recorded to the specified directory. Unlike using the "Print to File" option in most applications, "Printer Code Recording" allows printing to the printer and to a file simultaneously.

To reduce the load of the hard disk, the created files need to be deleted periodically.

Logging Options	? 🛛
Logging Printer Code Recording	
Printer Code Recording Becord Printer Code Uverwrite Files With Same Name	
Directory: C:\Log Files\TEC B-SA4T	Bro <u>w</u> se
	Vjew File
(Send to Printer
(D <u>e</u> lete File
	Delete <u>A</u> ll Files
OK Cancel	Apply Help

Status Monitoring

Status tab

Enables monitoring the printer status.

Applicable printer models:

B-SX4T (203 dpi), B-SX4T-CN (203 dpi), B-SX5T (305 dpi), B-SX5T-CN (305 dpi), B-SV4, B-SA4T (203 dpi), B-SA4T-CN (203 dpi), B-SA4T (300 dpi), B-SA4T-CN (300 dpi), B-S52-R, B-452-R, B-462-R, B-EP2DL-G, B-EP4DL-G, B-SX6T (305 dpi), B-SX8T (305 dpi), B-EX4T1 (203 dpi), B-EX4T1 (305 dpi), B-EX4T2 (203 dpi), B-EX4T2 (300 dpi), B-EX4T2 (600 dpi), B-EX4D2 (203 dpi), B-FV4 (203 dpi), B-FV4 (300 dpi), B-FP3D (203 dpi), B-EX6T1 (203 dpi), B-EX6T1 (305 dpi), B-EX6T3 (305 dpi) B-EX4T3 (600 dpi), B-EX4D, BA410, BA420, B-FP2D, BV400-G and BV400-T

Requirements to use the status monitor:

- The printer and the PC are connected with a serial interface cable.
- The printer and the PC are connected with a parallel interface cable and "CENTRO. MODE" and "PLUG & PLAY" are set to "ECP" and "ON", respectively. (B-SX4T/SX5T only)
- The printer and the PC are connected with a USB cable.
- The printer and the PC are connected with a LAN cable.

	Status Monitoring 🛛 🛛 💽		
	Status Job Verification Communication		
	Printer Status Monitoring		
	O Disabled		
	C Status Display Options		
3	Show advanced status in Comments field		
	Show icon in taskbar notification area		
	Show Status Window		
	Automatically show Status Window when errors occur		
	Status Window Preferences		
	OK Cancel Apply Help		

Printer Status Monitoring:

Enables selecting how to start the status monitor.

- Disabled: Printer status is not monitored.
- During print jobs only: Printer status is monitored while a print job exists in the print queue.
- On demand: Printer status is monitored only while printing.
- Continuous: Printer status is always monitored.

Status Display Options:

Show advanced status in Comments field: When checked, a printer status is displayed on the Comment column of the "Printer & FAX" window. Since this feature is not supported, do not change the default settings.

Show icon in taskbar notification area: When checked, the status monitor icon is displayed on the task bar and the printer statuses are periodically monitored.

Show Status Window: When checked, the status monitor's status window is displayed. Remove the check or click [X] to close the window.

- Printer: Name of the printer monitored.
- Port: Output port monitored. The printer uses this port for printing.
- Status: Printer status This is equivalent to the message displayed on the printer LCD. This windows only shows the printer statuses, not detailed information like the number of unprinted labels.

TEC B-SA4T (300 dpi) Status X Printer: TEC B-SA4T (300 dpi) Port: USB001 Status: Ready

Ready	Paused	Printing
Ready, Ribbon Low	Paused, Ribbon Low	Printing, Ribbon Low
Ready, Paper near end	Pause, Paper near end	Printing, Paper near end
Command Error	Offline	Out of Paper
Out of Ribbon	Head Open	Paper Jam
Cutter Error	Ribbon Error	Sensor Error
Door Open	RFID Write Error	RFID Error
Label Present	I/O Error	Motor Temperature High
Head Temperature High	Ambient Temperature Error	Output Full
Battery Temperature High	Low Battery	Charge Error

Bluetooth Setting Error	Battery Warning	Head Temperature Warning
Motor Temperature Warning	Memory Write Error	Memory Error
Memory Card Error	Busy	RFID Setting Error

[How to recover from an error]

When an error like "NO PAPER" occurred on the printer, clear the cause of the error, and press the [RESTART] key on the printer.

For details, refer to the Owner's Manual of each printer.

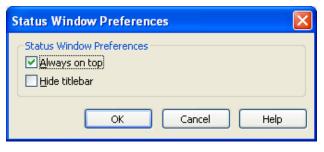
Automatically show Status Windows when errors occur:

When checked, the printer status is periodically monitored and if an error occurred during printing, the status window is displayed.

Status Window Preferences:

Always on top: When checked, the status window is always displayed on the top of all other windows.

Hide titlebar: When checked, the titlebar of the status window is hidden.



Job Verification tab

Enables setting the print job monitoring method. When either checkbox is checked, printing is performed while verifying a completion of printing. Since this feature is not supported, do not change the default settings.

Status Monitoring	? 🛛
Status Monitoring Status Job Verification Job Verification Merify job complete before sending next job Verify page complete before sending next page	
OK Cancel Apply	Help

Communication tab

Enables setting the timeout and polling interval for the status monitoring are set. Do not change the default settings.

Notes:

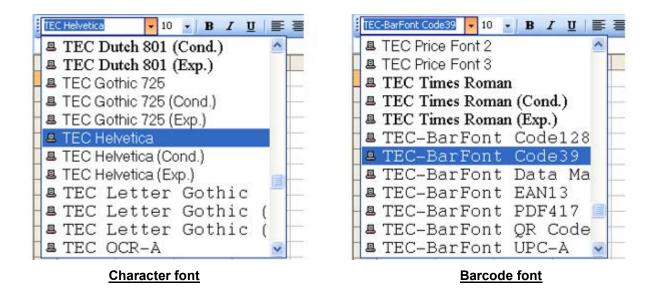
- Be sure to disable the status monitor when uninstalling the printer driver or changing the output port.
- When the printer is used as a shared printer, the status monitor window is not displayed on the client PC.
- While the status monitor is displayed, the ONLINE LED blinks periodically. This is not a failure.
- <u>DO NOT enable the status monitor for the printers other than</u> B-SX4T (203 dpi), B-SX4T-CN (203 dpi), B-SX5T (305 dpi), B-SX5T-CN (305 dpi), B-SV4, B-SA4T (203 dpi), B-SA4T-CN (203 dpi), B-SA4T (300 dpi), B-SA4T-CN (300 dpi), B-852-R, B-452-R, B-462-R, B-EP2DL-G, B-EP4DL-G, B-SX6T (305 dpi), B-SX8T (305 dpi), B-EX4T1 (203 dpi), B-EX4T1 (305 dpi), B-EX4T2 (203 dpi), B-EX4T2 (300 dpi), B-EX4T2 (600 dpi), B-EX4D2 (203 dpi), B-FV4 (203 dpi), B-FV4 (300 dpi), B-FP3D (203 dpi), B-EX6T1 (203 dpi), B-EX6T1 (305 dpi), B-EX6T3 (203 dpi), B-EX6T3 (305 dpi), B-EX4T3 (600 dpi), DB-EA4D, BA410, BA420, B-FP2D, BV400-G and BV400-T.
- It takes time to detect an OFFLINE status. (30 sec. at least)
- If the "Show icon in taskbar notification area" and "Show Status Window" check boxes are selected, the status monitor may not work properly when the PC is started. If "OFFLINE" is displayed at the start of the PC, remove the checks from these options.

Status Monitoring		? 🗙
Status Job Verification	Communication	
Timeouts Send timeout: Response timeout:	30000 ms 30000 ms	
Polling Interval During jobs: When idle:	1000 ms 5000 ms	
ОК С	ancel Apply	/ Help

3.7 Designation of Printer Font

It is possible to use the printer's resident fonts and barcode symbologies within any Windows application by selecting the printer fonts like "TEC Kanji" for the data to be converted.

Example of selecting a font on the application



Supplement:

- The name of the printer fonts (barcode or 2D code fonts) for the Toshiba TEC barcode printers starts with "TEC", like "TEC Kanji". Although the "TEC ***" fonts do not appear as barcodes on the screen, they will be converted by the driver into the desired barcodes.
- It is possible to expect an increase of the printing throughput if the printer font is used.
- Printer fonts (including barcode fonts) shown on the application screen look different from the actually printed ones in on appearance and size.
- To use the TEC Kanji Outline fonts on B-372, B-472 and B-872, separately sold fonts are required.

■ Example of barcode font programming (Visual Basic 5.0/6.0)

In the case the registered barcode font name is "BarFont Code 39":

Private Sub Command1_Click() Printer.FontName = "TEC-BarFont Code39" Printer.FontSize = 36 Printer.FontBold = False Printer.FontItalic = False Printer.CurrentX = 1000 Printer.CurrentY = 1000 Printer.Print "1234567" Printer.EndDoc End Sub

Note: The Visual Studio.NET (VB/C#) or later does not support the above processing.

Restrictions of Bar Code Fonts

- Depending on the applications, barcode fonts may not be listed in the font types. Make sure that the application used supports the printer fonts.
- Barcode fonts do not appear as barcodes on the document of the application. Instead, characters or symbols are displayed.
- If a barcode rotation is specified, the actual print position differs from the position specified by the application. Print the data and adjust the position of the printed image.
- The height of barcode is specified by the character size point. The character size points are converted into millimeters on the basis of the following table, or there may be a case that the barcode font is converted into other character font and no barcode is printed.

Point	Bar height (mm)	Point	Bar height (mm)
8	2.8	36	12.7
9	3.2	48	16.9
10	3.5	60	21.2
11	3.9	72	25.4
12	4.2	108	38.1
14	4.9	144	50.8
18	6.4	180	63.5
24	8.5	216	76.2
30	10.6		

• In the case Kanji code is included in data, select the [Tool] tab, [Configure], "Printer options" and set "Control Codes" to "ESC/LF/NUL".

ł	Printer Options		
	Printer Options Automatic Statu: Include Job Infor		
	-Command Protocol -		
	<u>C</u> ontrol Codes:	ESC / LF / NUL 🗸	
	Start of Command:	<eso> 🗸 27</eso>	
	End of Command:	<lf> 10</lf>	
L	End of <u>Li</u> ne:	<nul> 👽 🛛</nul>	
	Add CR/LF at en	nd of line	
		OK Cancel Help	

• When a control code or special code is used with the barcode font specified, refer to the following table and enter the corresponding data.

In the case a caret "^" is used, enter "^^" because the caret "^" is the default function character. If the
function character is changed from "^" to the other in [User Commands] of [Advanced Options], replace
the "^" with the specified character.

Control code	Input data	Control code	Input data	Special code	Input data
>@ (00H)	N/A	>P (10H)	^ <dle></dle>	>0	>
>A (01H)	^ <soh></soh>	>Q (11H)	^ <dc1></dc1>		
>B (02H)	^ <stx></stx>	>R (12H)	^ <dc2></dc2>		
>C (03H)	^ <etx></etx>	>S (13H)	^ <dc3></dc3>		
>D (04H)	^ <eot></eot>	>T (14H)	^ <dc4></dc4>		
>E (05H)	^ <enq></enq>	>U (15H)	^ <nak></nak>		
>F (06H)	^ <ack></ack>	>V (16H)	^ <syn></syn>		
>G (07H)	^ <bel></bel>	>W (17H)	^ <etb></etb>		
>H (08H)	^ <bs></bs>	>X (18H)	^ <can></can>		
>I (09H)	^ <ht></ht>	>Y (19H)	^ 		
>J (0AH)	^ <lf></lf>	>Z (1AH)	^		
>K (0BH)	^ <vt></vt>	>[(1BH)	^ <esc></esc>		
>L (0CH)	^ <ff></ff>	>\ (1CH)	^ <fs></fs>		
>M (0DH)	^ <cr></cr>	>] (1DH)	^ <gs></gs>		
>N (0EH)	^ <so></so>	>^ (1EH)	^ <rs></rs>		
>O (0FH)	^ <si></si>	>_(1FH)	^ <us></us>		

• When a special code is used with the barcode font(Code 128) specified, refer to the following table and enter the corresponding data.

Special code	Input data
>0	>
>1	^
>2	^3
>3	^2
>4	^s or ^S
>5	^c or ^C
>6	^b or ^B
>7	^a or ^A
>8	^1

• When a FNC1 is used as data delimiter of GS1 DataMatrix, specified the "^1".

■ Correspondence table of the specified size of TEC Kanji and actually printed size

Unit: Point

30	5dpi	3000	dpi
Specified size	Print size	Specified size	Print size
1.0 to 2.0	1.9	1.0 to 2.5	1.9
2.5 to 3.0	2.8	3.0 to 3.0	2.9
3.5 to 5.0	3.8	3.5 to 5.0	3.8
5.5 to 7.0	5.6	5.5 to 7.0	5.8
7.5 to 9.0	7.5	7.5 to 9.0	7.7
9.5 to 10.0	9.4	9.5 to 10.5	9.6
10.5 to 14.0	11.3	11.0 to 14.5	11.5
14.5 to 16.0	15.1	15.0 to 16.5	15.4
16.5 to 18.0	16.9	17.0 to 18.5	17.3
18.5 to 21.5	18.8	19.0 to 22.0	19.2
22.0 to 27.0	22.6	22.5 to 27.5	23.0
27.5 to 32.5	28.2	28.0 to 33.0	28.8
33.0 to 50.0	33.9	33.5 to 50.0	34.6

203	dpi	600	dpi
Specified size	Print size	Specified size	Print size
1.0 to 3.5	2.8	1.0 to 1.0	1.0
4.0 to 5.0	4.3	1.5 to 1.5	1.4
5.5 to 7.5	5.7	2.0 to 2.5	1.9
8.0 to 10.0	8.5	3.0 to 3.5	2.9
10.5 to 13.5	11.3	4.0 to 4.5	3.8
14.0 to 15.5	14.2	5.0 to 5.0	4.8
16.0 to 21.0	17.0	5.5 to 7.0	5.8
21.5 to 27.0	22.7	7.5 to 8.0	7.7
27.5 to 32.5	28.4	8.5 to 9.0	8.6
33.0 to 57.5	34.0	11.5 to 13.5	11.5
		14.0 to 16.5	14.4
		17.0 to 25.0	17.3

4. System Configuration

Computer	IBM PC-AT compatible
Windows	Microsoft Windows 10, Windows 11, Windows Server 2012, Windows Server 2016, Windows Server 2019
Printer	Toshiba Tec Barcode Printer
Centronics	Centronics interface cable
Printer server	Connection method to Ethernet <u>B-SV4</u> : Optional LAN adapter <u>B-SX</u> : Optional PCMCIA board and LAN card <u>B-SX</u> : Optional LAN board <u>B-SA4/B-852-R/B-452-R/B-EP2/B-EP4/B-EV4/B-SX6T/8T/B-EX4T1/T2/B-462-R/B-FP/B-EX6T1/</u> <u>B-EX6T3/B-EX4T3/DB-EA4D/BA400/B-FP2D-G/BV400</u> The LAN interface is provided as standard.

The system requirements for this printer driver are as follows:

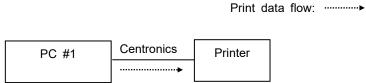
Notes:

- 1. When the printer server is used, set the port by following the guideline of the printer server device.
- 2. When the Toshiba TEC optional LAN board or a set of the optional PCMCIA board and a LAN card is used to connect the printer to the LAN, refer to **Section 6.3 How to Connect the Printer to LAN**.
- 3. When the printer is used as the network printer, refer to *To print on the shared printer* described in the installation procedure by an OS.

4.1 System Configuration Example

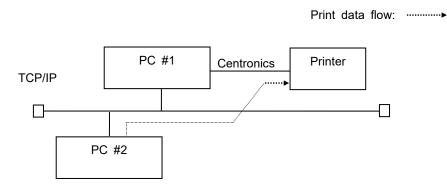
Example 1 In the case a Windows PC is directly connected to the printer.

Install the printer driver (for Windows 9X or Windows NT) in the PC #1. Specify the LPT1 (local port) for the output port.



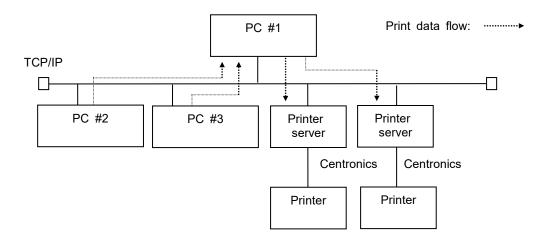
■ Example 2 In the case the printer is directly connected to the Windows PC #1 and printing is initiated from another Windows PC #2 via TCP/IP

- Install the printer driver (for Windows 9X or Windows NT) in the PC #1. Specify the LPT1 (local port) for the output port.
- 2. Right-click the printer icon, open the Properties, and specify the printer connected to the PC #1 as a shared printer.
- 3. Install the printer driver (for Windows 9X or Windows NT) in the PC #2.
- 4. Specify the network path of the printer connected to the PC # 1 and install it as a network printer.



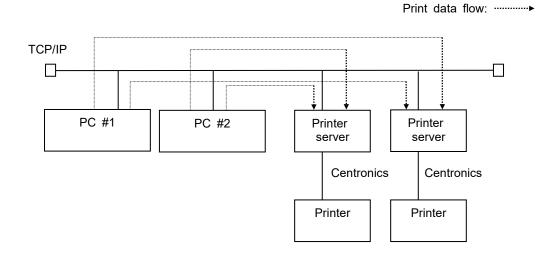
Example 3 In the case print jobs are sent from Windows PC #2 (Windows 9x) and Windows PC #3 (Windows NT) to the Windows PC #1 (Windows NT) via TCP/IP, and these print jobs are sent from the PC #1 to multiple printers

- 1. Install the printer drivers (for Windows NT) in the PC #1 for the number of printers connected.
- 2. Right-click the printer icon on the PC #1, open the Properties and add the LPR port specifying the printer server address.
- 3. In the Properties screen, specify the printer on the network as the shared printers.
- 4. Install the printer driver (for Windows 9X) in the PC #2.
- 5. Specify the network path of the printer connected to the PC # 1 and install it as a network printer.
- 6. Install the printer driver (for Windows NT) in the PC #3.
- 7. Specify the network path of the printer connected to the PC #1 and install it as a network printer.



■ Example 4 In the case print jobs are sent from Windows PC #1 (Windows 9x) and Windows PC #2 (Windows NT) to the multiple printers via TCP/IP

- 1. Install the printer drivers (for Windows 9X) in the PC #1 for the number of printers connected.
- 2. Add the LPR port specifying the printer server address. (Use other software like the printer server specific setting utility to add the LPR port.)
- 3. Specify the LPR Port added in Step 2 above as the print port of the PC #1.
- 4. Install the printer drivers (for Windows NT) in the PC #2 for the number of printers connected.
- 5. Right-click the printer icon on the PC #2, open the Properties, and add the LPR port specifying the printer server address.
- 6. Specify the LPR Port added in Step 5 above as the print port of the PC #2.



5. Addition and Deletion of Standard TCP/IP Port

When connecting the printer via LAN interface, configure the following settings on the printer using the printer system mode menu <7>IP ADDRESS.

- PRINTER IP ADDRESS
- GATEWAY IP ADDRESS
- SUBNET MASK
- SOCKET PORT

The above PRINTER IP ADDRESS and SOCKET PORT are used as the "Printer Name or IP address" and "Port No.", respectively when adding a port.

Note: When "Bidirectional support" is used, do not specify the same output port for the multiple printer drivers on a computer. When you want to specify the same output port for the multiple printer drivers, disable [Printer Status Monitoring]. Also, when multiple computers connect to the same printer, specify that printer as the shared printer or disable [Printer Status Monitoring].

5.1 Addition

1. Right-click the printer icon and click "Properties" to open the printer properties screen.



- 💐 TEC B-SA4T (300 dpi) Properties ? General Sharing Ports Advanced Security Fonts Tools About TEC B-SA4T (300 dpi) 1 Print to the following port(s). Documents will print to the first free checked port. Printer Port Description ~ LPT1: Printer Port TEC B-SA4T (300 dpi) LPT2: Printer Port LPT3: Printer Port COM1: Serial Port COM2: Serial Port COM3: Serial Port COM4: Serial Port Add Port ... Delete Port Configure Port. Enable bidirectional support Enable printer pooling ΟK Cancel Help Apply
- 2. Select the [Ports] tab and click [Add Port].

3. Select "Standard TCP/IP Port" from the "Available port types" list, then click [New Port].

Printer Ports	? 🛛
<u>Available port types:</u>	
Standard TCP/IP Port	
New Port Type	New Port Cancel

4. After "Add Standard TCP/IP Printer Port Wizard" is started, click [Next].

Add Standard TCP/IP Prin	ter Port Wizard	×
	Welcome to the Add Standard TCP/IP Printer Port Wizard	
	You use this wizard to add a port for a network printer.	
	Before continuing be sure that: 1. The device is turned on. 2. The network is connected and configured.	
	To continue, click Next.	

- 5. Type in "Printer Name or IP Address" and click [Next].
 - Note: The Port Name is automatically set when the "Printer Name or IP Address" is entered.

Add Standard TCP/IP Printer Po	ort Wizard 🛛 🔀
Add Port For which device do you want to	o add a port?
Enter the Printer Name or IP add	ress, and a port name for the desired device.
Printer Name or IP Address:	XXX. XXX. XXX. XXX
<u>P</u> ort Name:	XXX. XXX. XXX. XXX
	< <u>B</u> ack Next> Cancel
Add Standard TCP/IP Printer Po	ort Wizard 🛛 🔀
Additional Port Information Rea The device could not be identifi	

 $\textit{6. Select "Device Type" to "Custom", then click} \\ [Settings].$

The device is not found on the network. Be sure the	hat:
---	------

- The device is turned on.
 The network is connected.
 The device is properly configured.
 The address on the previous page is correct.

If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.

Device Type-			
◯ <u>S</u> tandard	Generic Network Card		~
© <u>C</u> ustom	Settings		
		< <u>B</u> ack <u>N</u> ext >	Cancel

7. When you choose "Raw" for the Protocol, enter the printer SOCKET PORT as "Port Number" and click [OK]. Do not select the "SNMP Status Enabled" check box.

When you choose "LRP" for the Protocol, enter any queue name (e.g.: "lpr") and click [OK]. Do not select the "LPR Byte Counting Enabled" and "SNMP Status Enabled" check boxes.

Note: When the status monitor feature is used with the bidirectional support, select "Raw".

[Default port number] The default port number is "9100". But there is in case of "8000".

Configure Standard TCP/I	P Port Monitor 🛛 🛛 💽 🔀
Port Settings	
Port Name:	XXX. XXX. XXX. XXX
Printer Name or IP Address:	XXX. XXX. XXX. XXX
Protocol <u> R</u> aw	
Raw Settings Port <u>N</u> umber: 80	00
LPR Settings	
LPR Byte Counting Enal	oled
<u>S</u> NMP Status Enabled	
Community Name: pu	blic
SNMP Device Index: 1	
	OK Cancel

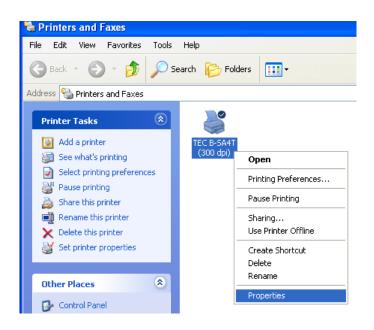
 $8.\,$ Click [Next] and [Finish].

Add Standard TCP/IP Printer Port Wizard					
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.				
	SNMP: Protocol: Device: Port Name: Adapter Type:	No RAW, Port 8000 xxx, xxx, xxx xxx, xxx, xxx			
	To complete this wizard, click Finish.				

 $9.\,$ When "Add Standard TCP/IP Printer Port Wizard" is finished, a new port is added.

5.2 Deletion

1. Right-click the printer icon and click "Properties" to open the printer properties screen.



2. Select the [Ports] tab and click [Delete Port].

👹 TEC B-SA4T (300 dpi) Properties 🛛 🔹 💽				
General Sharing Ports Advanced Security Fonts Tools About				
TEC B-SA4T (300 dpi) Print to the following port(s). Documents will print to the first free checked port.				
Port Description Printer 🔼				
✓ LPT1: Printer Port TEC B-SA4T (300 dpi) □ LPT2: Printer Port □ LPT3: Printer Port □ COM1: Serial Port □ COM2: Serial Port □ COM3: Serial Port □ COM4: Serial Port				
Add Por <u>t</u> <u>D</u> elete Port <u>C</u> onfigure Port				
✓ Enable bidirectional support □ Enable printer pooling				
OK Cancel Apply Help				

 ${\it 3.}$ When the deletion of the port is completed, it is deleted from the print port.

6. Appendix

6.1 How to Enable Bidirectional Communication Support

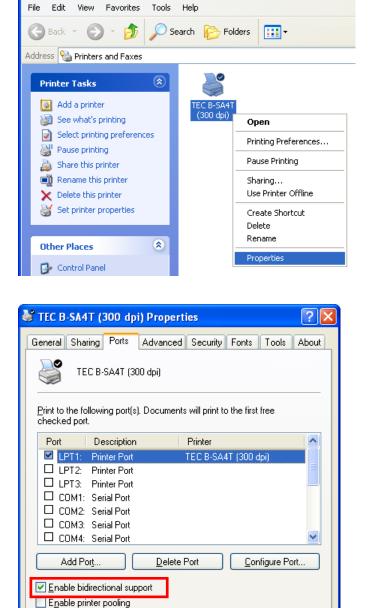
🗟 Printers and Faxes

1. Right-click the printer icon and open the Properties.

2. Click the [Port] tab.

To enable the bidirectional support, select the "Enable bidirectional support" check box.

To disable the bidirectional support, remove the select from the "Enable bidirectional support" check box.



ΟK

Cancel

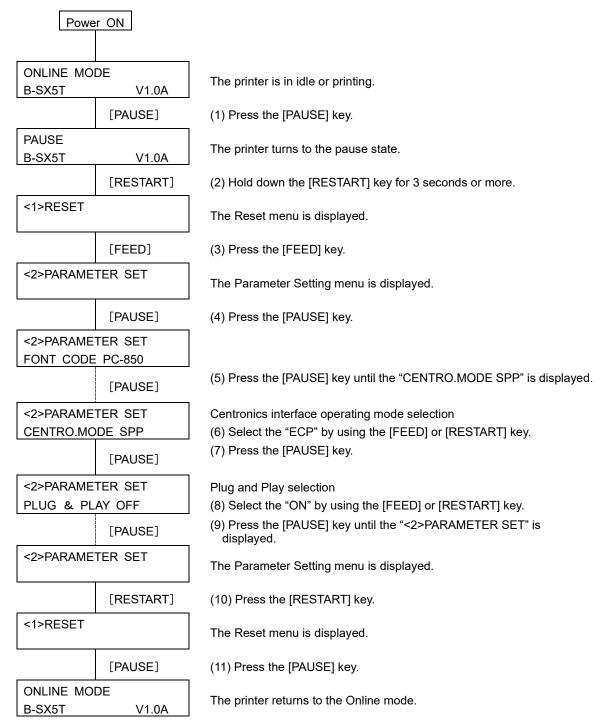
Apply

Help

6.2 Parameter Setting on the Printer

For how to set the parameters, refer to the Owner's Manual supplied with the connected TOSHIBA barcode printer.

- **Note**: The following example is the parameter setting procedure for B-SX5T.
 - "CENTRO. MODE" is set to "ECP" and "PLUG & PLAY" is set to "ON", respectively.



6.3 How to Connect the Printer to LAN

Right-click the printer icon, open the Properties, add a printer port and specify it as an output port.

The output port to be used differs depending on the printer models and communication methods (unidirectional/bidirectional).

Printer Port Types

LAN interface	Printer model	Method	Printer board Standard TCP/IP Por t		
Optional LAN board					
B-SV704-LAN-QQ/QP-R	B-SV4D (Except GS12) B-SV4T	Unidirectional	Raw or LPR protocol		
B-9700-PCM-QM-R	B-SX4T (203 dpi) B-SX5T (305 dpi)	Unidirectional	Raw or LPR protocol		
B-9700-LAN-QM-R		Bidirectional	Raw protocol		
Standard feature					
B-EV4 (203 dpi) B-EV4 (300 dpi)		Unidirectional	LPR protocol		
B-SA4T (203 dpi) / B-SA4 B-SA4T (300 dpi) / B-SA4 B-852-R		Unidirectional	Raw or LPR protocol		
B-452-R B-462-R B-EP2DL-G B-SV4D-GS12-QM-R B-SX6T (305 dpi) B-SX8T (305 dpi) B-EX4T1 (203 dpi) B-EX4T1 (203 dpi) B-EX4T2 (203 dpi) B-EX4T2 (305 dpi) B-EX6T1 (203 dpi) B-EX6T3 (203 dpi) B-EX4T3 (600 dpi) B-EX4T3 (600 dpi) B-FV4 (203 dpi) B-FV4 (203 dpi) B-FV4 (300 dpi) BA410T(203 dpi) BA420T(203 dpi) B-FP3D (203 dpi) B-FP2D (203 dpi) B-FP2D (203 dpi) B-FP2D (203 dpi) BV400 (203 dpi)		Bidirectional	Raw protocol		

Note: In the case of the unidirectional communication, be sure to disable the [Printer Status Monitoring].

Toshiba Tec Corporation

1-11-1, Osaki, Shinagawa-ku, Tokyo 141-8562 Gate City Ohsaki West Tower

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