Star Inbox Driver

Software Manual

Rev. 1.0

Contents

Introduction

This manual describes the functions that are available on the Star Inbox Driver for Windows Vista and Windows 7.

The models that are covered by this manual are listed below.

Compatible models

- **SP500 / TSP600 / TSP700 / TSP800 / TUP900 / TSP1000**

1. Windows Vista/7 Printer Driver Settings

The functions that can be set vary depending on the model, interface, and print mode.
The main capabilities that can be set by this driver are as follows.

	SP500	TSP600	TSP700	TSP800	TUP900	TSP1000
Print Mode (Raster)	No	Yes	Yes	Yes	Yes	Yes
Paper Type	Yes	Yes	Yes	Yes	Yes	Yes
Detect Black Mark Position at Power On	Yes	No	Yes	Yes	Yes	Yes
Top Serch	No	No	Yes	Yes	Yes	Yes
Page Cut	Yes	Yes	Yes	Yes	Yes	Yes
Document Cut	Yes	Yes	Yes	Yes	Yes	Yes
Print Quality	Yes	Yes	Yes	Yes	Yes	Yes
Logos Printing	No	Yes	Yes	Yes	Yes	Yes
Chash Drawer Control	Yes	Yes	Yes	Yes	No	No
Peripheral Unit Control	No	No	No	No	No	Yes
Presenter Control	No	No	No	No	Yes	No
Bidirectional Printing	Yes	No	No	No	No	No
2-Color Printing	No	Yes	Yes	Yes	Yes	Yes
Device Font	Yes	Yes	Yes	Yes	Yes	Yes
Control Font	Yes	Yes	Yes	Yes	Yes	Yes
Barcode Font	No	Yes	Yes	Yes	Yes	Yes

Point! Available device settings vary according to whether operation is in Raster or Line .

In the following explanations, **Raster** and **Line** appear to the right of the setting name to indicate the mode to which the setting applies.

Operational settings may not work as expected if you switch between Raster and Line mode while your application is still running. Please restart the application after switching the mode.

Note: "Raster," the default print mode, is not supported if you are using the following models through the serial interface. Set Print Mode to "Line" before you access these models.
Applicable models : TSP600 / TSP700 / TSP800 / TUP900

1.1 Setting the Printer

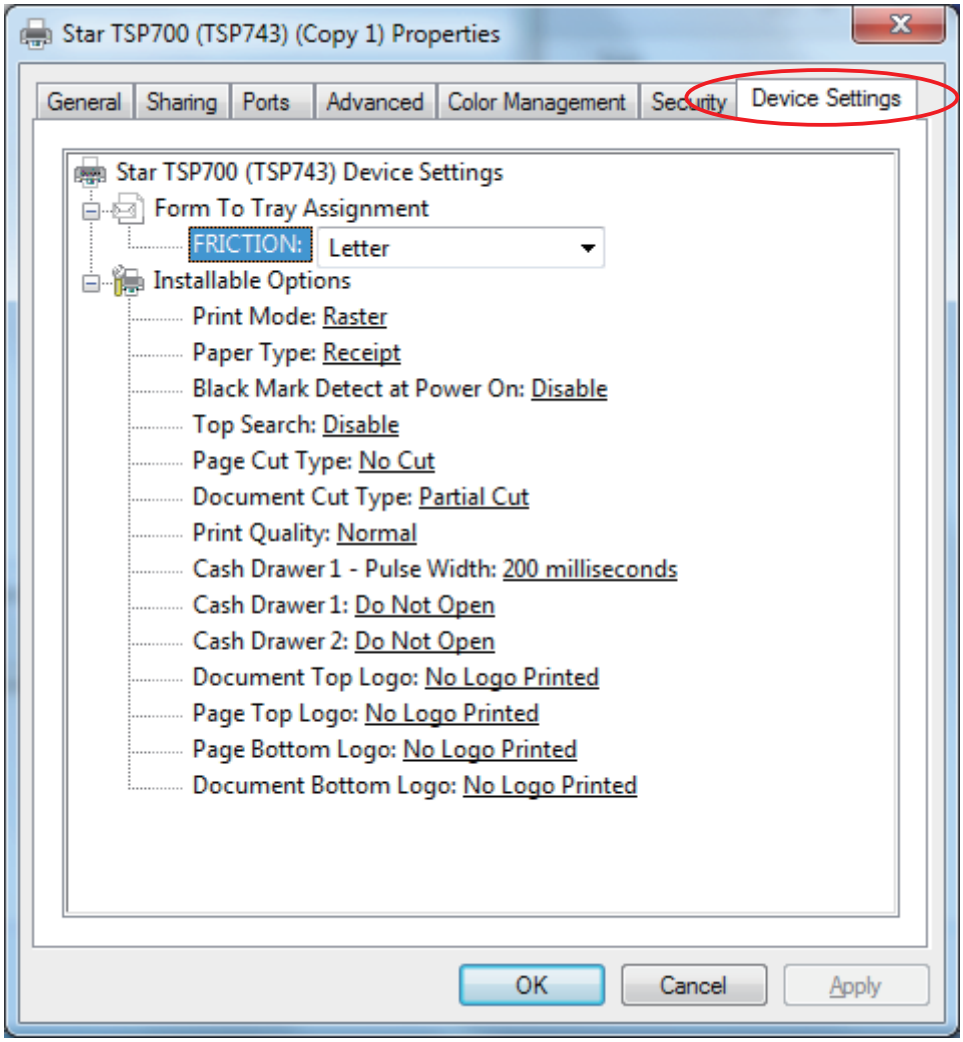
Using the printer's Properties dialog box, you can set various functions of this driver.
Begin by opening the Properties dialog box, as follows.

① On the taskbar, click Start. On Windows Vista, click **Control Panel**, and then click **Printers**. On Windows 7, click **Devices and Printers**.

② Right-click the printer icon to display the drop-down menu. On Windows Vista, click **Run as administrator**, and then click **Properties**. On Windows 7, click **Printer properties**.

③ If you are using Windows Vista, the **User Account Control** dialog appears. Click **Continue**.

④ At the **Properties** dialog, click the **Device Settings** tab.



1.1.1 Explanation of Device Settings

Note: Some of the above operations are mutually exclusive. If a ⚠ mark appears in the Device Settings tab, refer to Section 3.2 and recheck your settings.

• Print Mode

Raster Line

Sets the print mode.

Setting	Default	Meaning
Raster	○	Sets Raster mode.
Line		Sets Line mode.

• Setting the Paper Type

Raster Line

Changes the paper type setting.

Setting	Default	Meaning
Receipt	○	Variable length: the printer does not output white-space padding at the end of the page data.
Ticket		Fixed length: the printer outputs white-space padding up to the end of the fixed-length page.
Black Mark		Fixed length: the printer outputs white-space padding up to the next black mark.

• Enabling / Disabling Black Mark Detection

Raster Line

If this feature is set to ***Enable***, the printer will detect the black mark position when turned on.

Setting	Default	Meaning
Disable	○	At power on, does not execute papter feed in accordance with detection of black mark position.
Enable		At power on, feeds paper according to black mark position.

Note: This setting is not available if the paper type is set to ***Receipt*** or ***Ticket***.

• Page Cut Type

Raster Line

Sets the cutting method for the end of each non-final page of a document.

Setting	Default	Meaning
No Cut	○	Printer does not feed or cut paper.
Partial Cut		Printer feeds paper to the cut position, and then cuts it (Partial cut).
Full Cut		Printer feeds paper to the cut position, and then cuts it (full cut).

• Document Cut Type

Raster Line

Sets the cutting method for the final page of the document.

Setting	Default	Meaning
No Cut	○	Printer does not feed or cut paper.
Partial Cut		Printer feeds paper to the cut position, and then cuts it (Partial cut).
Full Cut		Printer feeds paper to the cut position, and then cuts it (full cut).

• Print Quality

Raster Line

Sets the print quality. Note that the setting also affects the print speed.

Setting	Default	Meaning
Nomal	○	Sets print quality and print speed to intermediate level.
High		Priority is given to print speed over print quality.
Best		Provides the highest print quality but lowers print speed.

Note: When setting up color printing, this density setting has no effect on black print density (which is fixed). To set the print quality for dot matrix printers, refer to "4. Setting the Print Quality (Dot matrix printers)."

• Selecting the Print Method

Line

Use this feature to select either unidirectional or bidirectional printing.
Note that the setting affects both the print speed and the print quality.

Setting	Default	Meaning
Bidirectional	○	Printer prints in both directions.
Unidirectional		Printer prints in one direction only.

• Document Top Logo

Line

The NV logos are identified by their NV logo (image list) numbers. To select a top-of-document logo, choose the appropriate logo number. Before making this setting, you must load NV logos into the printer's nonvolatile memory.

Setting	Default	Meaning
No Logo Printed	○	No logo printed at the document top.
Print Logo 1, …, 10		Prints the selected logo at the document top.

Note: This setting is effective only in ***Line*** print mode.

• Page Top Logo

Line

The NV logos are identified by their NV logo (image list) numbers. To select a top-of-page logo, choose the appropriate NV logo (image list) number. Before making this setting, you must load NV logos into the printer's nonvolatile memory.

Setting	Default	Meaning
No Logo Printed	○	No logo printed at the page top.
Print Logo 1, …, 10		Prints the selected logo at the page top.

Note: This setting is effective only in ***Line*** print mode.

• Page Bottom Logo

Line

The NV logos are identified by their NV logo (image list) numbers. To select the bottom-of-page logo, choose the appropriate NV logo (image list) number. Before making this setting, you must load NV logos into the printer's nonvolatile memory.

Setting	Default	Meaning
No Logo Printed	○	No logo printed at the page bottom.
Print Logo 1, …, 10		Prints the selected logo at the page bottom.

Note: This setting is effective only in ***Line*** print mode.

• Document Bottom Logo

Line

The NV logos are identified by their NV logo (image list) numbers. To select the bottom-of-document logo, choose the appropriate NV logo (image list) number. Before making this setting, you must load NV logos into the printer's nonvolatile memory.

Setting	Default	Meaning
No Logo Printed	○	No logo printed at the document bottom.
Print Logo 1, …, 10		Prints the selected logo at the document bottom.

Note: This setting is effective only in ***Line*** print mode.

• Cash Drawer1 (or 2)

Raster Line

This sets the operations of the cash drawer 1 (or 2).

Setting	Default	Meaning
Do Not Open	○	No cash drawer drive.
Open Before Printing		Drives cash drawer 1(or 2) immediately before printing.
Open After Printing		Drives cash drawer 1(or 2) immediately after printing.

• Pulse Width for Cash Drawer 1

Raster Line

Sets the pulse width for cash drawer 1 .
The pulse width for cash drawer2 is fixed at 200 milliseconds.

Setting	Default	Meaning
10 milliseconds		Sets the pulse width to 0.01 seconds.
100 milliseconds		Sets the pulse width to 0.1 seconds.
200 milliseconds	○	Sets the pulse width to 0.2 seconds.
300 milliseconds		Sets the pulse width to 0.3 seconds.
400 milliseconds		Sets the pulse width to 0.4 seconds.
500 milliseconds		Sets the pulse width to 0.5 seconds.
600 milliseconds		Sets the pulse width to 0.6 seconds.
700 milliseconds		Sets the pulse width to 0.7 seconds.
800 milliseconds		Sets the pulse width to 0.8 seconds.
900 milliseconds		Sets the pulse width to 0.9 seconds.
1000 milliseconds		Sets the pulse width to 1.0 seconds.
1100 milliseconds		Sets the pulse width to 1.1 seconds.
1200 milliseconds		Sets the pulse width to 1.2 seconds.

• Peripheral Unit 1 or 2

Raster Line

This sets the operations of the peripheral unit 1 (or 2).

Setting	Default	Meaning
Do Not Fire	○	No peripheral unit drive.
20milliseconds ... 5000milliseconds		Drives peripheral unit 1 or 2 using the specified pulse width.

• Presenter Mode

Raster Line

Sets the presenter operation.

Setting	Default	Meaning
Loop-Hold-Retract	○	After printing is completed, presents (outputs and holds) the printed paper and waits for it to be removed. Retracts the paper if it is not removed within the specified retraction time.
Loop-Hold-Eject		After printing is completed, presents (outputs and holds) the printed paper and waits for it to be removed. Ejects the paper if it is not removed within the specified retraction time.
NoLoop-Hold-Retract		Begins outputting the paper while printing is in progress, then holds it and waits for its removal. Retracts the paper if it is not removed within the specified retraction time.
NoLoop-Hold-Eject		Begins outputting the paper while printing is in progress, then holds it and waits for its removal. Ejects the paper if it is not removed within the specified retraction time.
NoLoop-NoHold-Eject		Outputs the paper while printing is in progress, and then ejects it. Does not hold the paper.

Note: The Presenter Retract Time (see below) sets the retraction time. If the Presenter Retract Time is set to "***Do Not Retract***," the presenter will present the paper and continue to hold it until it is removed. It will not retract or eject the paper.

• Presenter Retract Time

Raster Line

Sets amount of time the presenter will hold out the printed paper before either retracting or ejecting it.

Setting	Default	Meaning
Do not Retract	○	Holds paper until it is removed.
1 ~ 125 second		Sets amount of time the presenter will hold out the printed paper before either retracting or ejecting it. Can be set in 5-second increments.

Note: If the Presenter Mode is set to "***NoLoop – NoHold – Eject***", the Retraction Time setting is meaningless and the presenter will eject the paper without holding it.

2. Setting the Paper Size

Raster Line

This drivers let you use both preset standard sizes and custom, user-defined sizes.

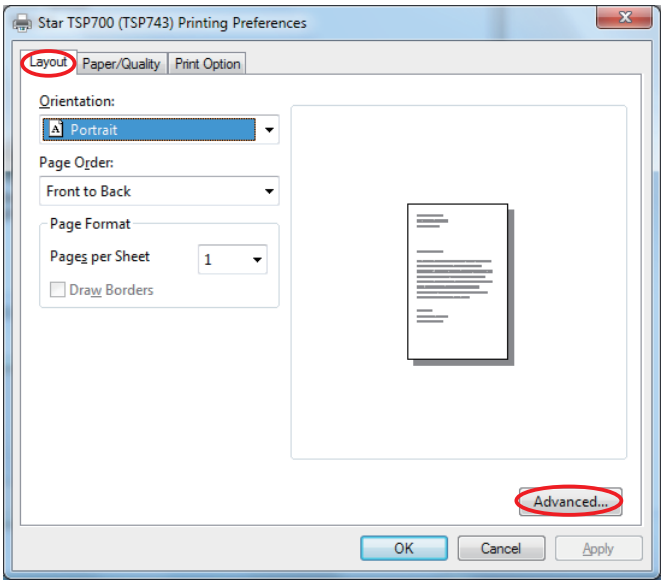
2.1 Standard Sizes

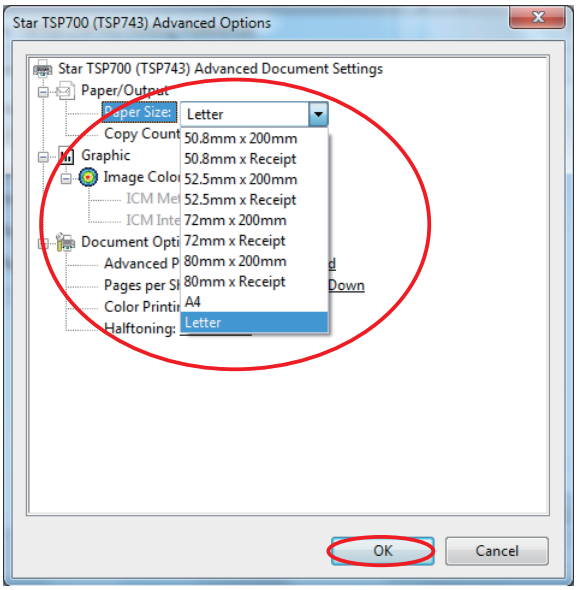
The procedure is as follows.

① On the taskbar, click Start. On Windows Vista, click **Control Panel**, and then click **Printers**. On Windows 7, click **Devices and Printers**.

② Right-click the printer icon that you wish to set. In the drop-down menu, click **Printing Preference**.

③ Click the **Layout** tab, and then click **Advanced...** . On the Advance Option dialog box, select the **Paper Size** value.





Point! Please be sure to set a print width that is smaller than the paper width, so as to allow for margins.

The following paper sizes are available and can be set.

Paper Size	Supported Models					
	SP500	TSP600	TSP700	TSP800	TUP900	TSP1000
42mm * 200mm						○
42mm * Receipt						○
45mm * 200mm	○					
45mm * Receipt	○					
47mm * 200mm						○
47mm * Receipt						○
48mm * 200mm	○					
48mm * Receipt	○					
50.8mm * 200mm		○	○			
50.8mm * Receipt		○	○			
52mm * 200mm						○
52mm * Receipt						○
52.5mm * 200mm			○			
52.5mm * Receipt			○			
55mm * 200mm						○
55mm * Receipt						○
56mm * 200mm					○	
56mm * Receipt					○	
60mm * 200mm	○					
60mm * Receipt	○					
63mm * 200mm	○					
63mm * Receipt	○					
72mm * 200mm		○	○		○	○
72mm * Receipt		○	○		○	○
80mm * 200mm			○		○	○
80mm * Receipt			○		○	○
104mm * 200mm				○	○	
104mm * Receipt				○	○	
Letter	○	○	○	○	○	○
A4	○	○	○	○	○	○

2.2 User-Defined Paper Settings

Raster Line

The paper size that will be used can be defined. The procedure is as follows.

① On the taskbar, click Start. On Windows Vista, click **Control Panel**, and then click **Printers**. On Windows 7, click **Devices and Printers**.

② On Windows Vista, right-click a blank area in the Printers folder to display the drop-down menu, and click **Run as administrator**, and then click **Server Properties**. On Windows 7, select the printer icon, and click **Printer server properties** on the menu-bar.

③ If you are using Windows Vista, the **User Account Control** dialog appears. Click **Continue**.

④ Click the **Forms** tab.

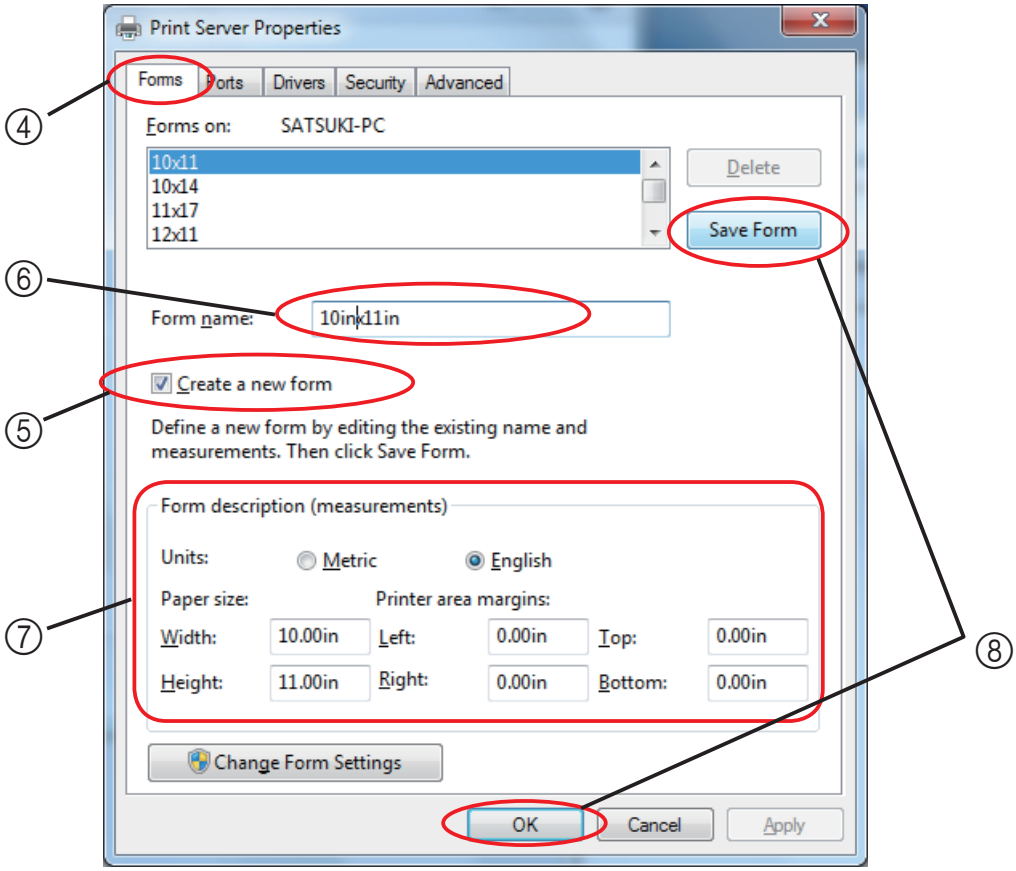
⑤ Select the **Create a new form** check box.

⑥ In the **Form name** textbox, overwrite the current name with a new name for the custom size you are defining.

⑦ In the **Form description (measurements)** area, select the appropriate Units and type the desired **Width** and **Height** settings.

> **Note:** Set all four margins (left, right, top, and bottom) to "0".

⑧ Click the **Save Form** button. Click the **OK** button to close the dialog box.



Available paper sizes are as follows.

Supported Models	Width		Height	
	Minimum	Maximum	Minimum	Maximum
SP500	25.4 mm	63 mm	25.4 mm	*OS's maximum print height
TSP600	25.4 mm	72 mm	25.4 mm	*OS's maximum print height
TSP700	25.4 mm	80 mm	25.4 mm	*OS's maximum print height
TSP800	25.4 mm	104 mm	25.4 mm	*OS's maximum print height
TUP900	25.4 mm	104 mm	25.4 mm	*OS's maximum print height
TSP1000	25.4 mm	80 mm	25.4 mm	*OS's maximum print height

* In general, the operating system's maximum print height is about 3 m (3,000 mm).

Point! User-defined sizes are available to all drivers that can support the dimensions (as indicated in the table).

3. Setting the Print Color and Paper Type

Raster

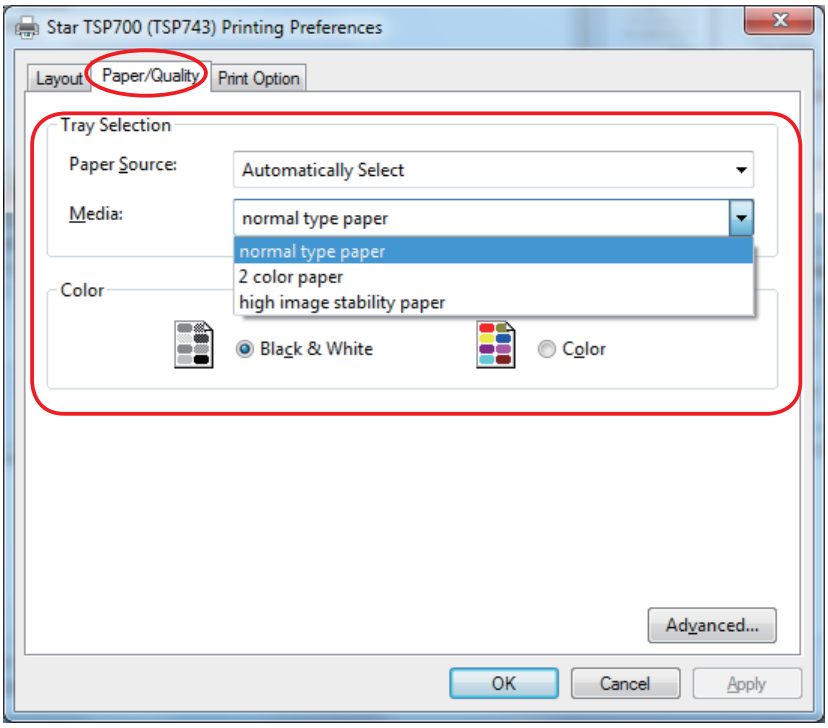
This printer driver's Raster mode supports two-color printing. This section explains how to set up color printing, and how to set the printer to print on special paper types.

① On the taskbar, click Start. On Windows Vista, click **Control Panel**, and then click **Printers**.
On Windows 7, click **Devices and Printers**.

② Right-click the printer icon that you wish to set. In te drop-down menu, click **Printing Preference**.

③ Click the **Paper/Quality** tab.
Select the paper type appropriate for the specified print color.

Selecting the paper type and print color:



♦ For normal monochrome printing (Standard thermal paper)

Media : Select **normal type paper**.
Color : Select check button of **Black & White**.

♦ For color printing (2-color thermal paper)

Media : Select **2 color paper**.
Color : Select check button of **Color**.

♦ For printing on special paper (dense black printing; some special high-stability papers)

Media : Select **high image stability paper**.
Color : Select check button of **Black & White**.

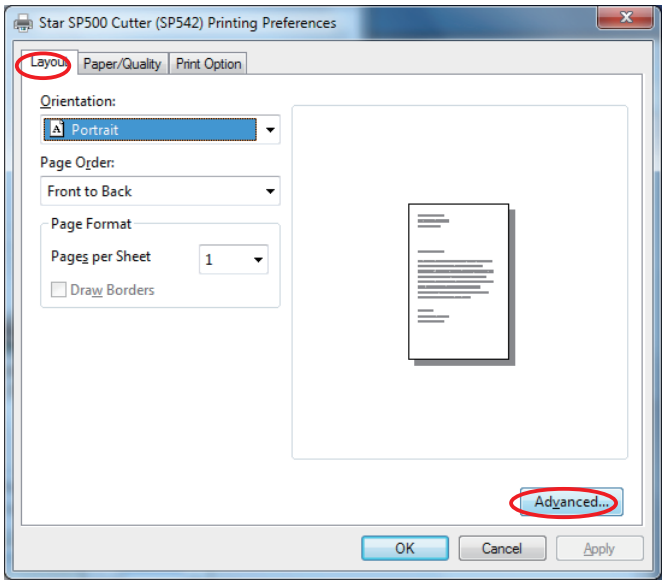
4. Setting the Print Quality

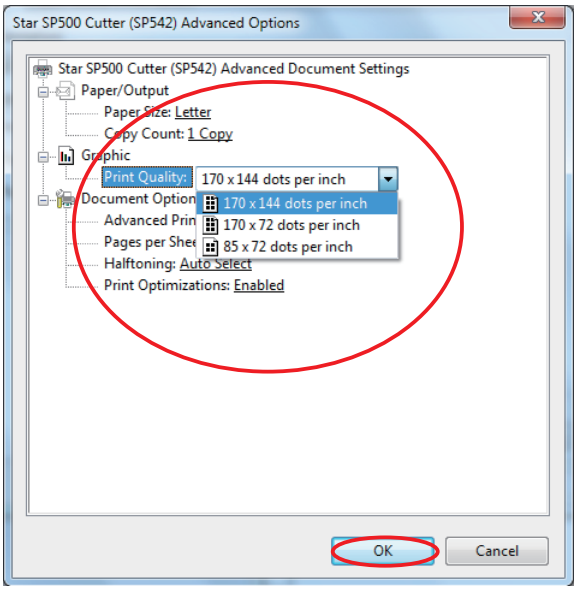
You can set the print quality for dot matrix printers.
To open the dialog, proceed as follows.

① On the taskbar, click Start. On Windows Vista, click **Control Panel**, and then click **Printers**.
On Windows 7, click **Devices and Printers**.

② Right-click the printer icon that you wish to set. In te drop-down menu, click **Printing Preference**.

③ Click the **Layout** tab, and then click **Advanced...** .
At the Advanced Option Dialog, set **Paper Size**.





The following settings are available.

Setting	Default	Meaning
170 × 144 dots per inch	○	Print at 170 dpi(w) × 144 dpi(h) .
170 × 72 dots per inch		Print at 170 dpi(w) × 72 dpi(h) .
85 × 72 dots per inch		Print at 85 dpi(w) × 72 dpi(h) .

5. Device Fonts

Line

This printer driver provides device fonts that can be used during operation in Line mode.
The printer driver supports a variety of device fonts that are installed on the printer. Printer fonts come in several font sizes and produce clearer printing than TrueType fonts. Barcode fonts and two-dimensional code fonts can be used to generate and print barcodes and two-dimensional codes of a variety of standards and sizes through the use of special codes. Control fonts can be used to control the printer through the embedding of character-based commands in print jobs.

5.1 Divice Fonts List

The following table contains the device fonts that the printer driver supports. To use the device fonts, specify the font and the appropriate font size (in points) in the application's format settings. In Microsoft Word and Excel, the height of 24 pixels equals 8.5 points.

♦Device fonts for Thermal Printer driver (TSP600 / TSP700 / TSP800 / TUP900 / TSP1000)

Fonts Name	Width (pixels)	Height (pixels)	Number of Print Columns			Meaning
			104mm (832dot)	80mm (640dot)	72mm (576dot)	
Printer 17cpi	12	24	69	53	48	Printer fonts (ANK Fonts)
Printer 8.5cpi	24	24	34	26	24	
Printer 17cpi Tall	12	48	69	53	48	
Printer 8.5cpi Tall	24	48	34	26	24	
Printer 16cpi	13	24	64	49	44	
Printer 8cpi	26	24	32	24	22	
Printer 16cpi Tall	13	48	64	49	44	
Printer 8cpi Tall	26	48	32	24	22	
Printer 14cpi	15	24	55	42	38	
Printer 7cpi	30	24	27	21	19	
Printer 14cpi Tall	15	48	55	42	38	
Printer 7cpi Tall	30	48	27	21	19	
Printer 17cpi (RED)	12	24	69	53	48	
Printer 8.5cpi (RED)	24	24	34	26	24	
Printer 17cpi Tall (RED)	12	48	69	53	48	
Printer 8.5cpi Tall (RED)	24	48	34	26	24	
Printer 16cpi (RED)	13	24	64	49	44	
Printer 8cpi (RED)	26	24	32	24	22	
Printer 16cpi Tall (RED)	13	48	64	49	44	
Printer 8cpi Tall (RED)	26	48	32	24	22	

Fonts Name	Width (pixels)	Height (pixels)	Number of Print Columns			Meaning
			104mm (832dot)	80mm (640dot)	72mm (576dot)	
Printer 14cpi (RED)	15	24	55	42	38	Printer fonts (ANK Fonts)
Printer 7cpi (RED)	30	24	27	21	19	
Printer 14cpi Tall (RED)	15	48	55	42	38	
Printer 7cpi Tall (RED)	30	48	27	21	19	
Hangul						2-byte fonts
Chinese-Simplified						
Chinese-Traditional						
UPC-E	12	24	69	53	48	Barcode fonts
UPC-A	12	24	69	53	48	
JAN/EAN-8	12	24	69	53	48	
JAN/EAN-13	12	24	69	53	48	
CODE39	12	24	69	53	48	
ITF	12	24	69	53	48	
NW-7(Codaber)	12	24	69	53	48	
Control	12	24	69	53	48	Control fonts
ESC_FONT	1	24	832	640	576	

♦Device fonts for Dot Matrix Printer driver (SP500)

Fonts Name	Width (pixels)	Height (pixels)	Number of Print Columns	Meaning
			63mm (210dot)	
Printer 17cpi	5	9	42	Printer fonts (ANK Fonts)
Printer 8.5cpi	10	9	21	
Printer 17cpi Tall	5	18	34	
Printer 8.5cpi Tall	10	18	21	
Printer 14cpi	6	9	35	
Printer 7cpi	12	9	17	
Printer 14cpi Tall	6	18	35	
Printer 7cpi Tall	12	18	17	
Printer 9cpi	9	9	23	
Printer 4.5cpi	18	9	11	
Printer 9cpi Tall	9	18	23	
Printer 4.5cpi Tall	18	18	11	
Control	5	9	42	Control fonts
ESC_FONT	5	9	42	

5.2 Barcode Fonts

Line

This printer driver's barcode fonts are available for use during operation in Line mode.
Select barcode fonts and enter the code to generate and print the barcode.
When printing a barcode image is printed, and then notations are printed under the barcode image.
Barcode images do not appear in the window of the application.

5.2.1 Barcode Font List

The table below shows supported types of barcode fonts and available types of characters.

Barcode Type	Character Columns	Available Character Set
UPC-E	12 columns	Value: 0 to 9
UPC-A	12 columns	Value: 0 to 9
JAN/EAN-8	8 columns	Value: 0 to 9
JAN/EAN-13	13 columns	Value: 0 to 9
CODE39	More than 1 column	Value: 0 to 9 Symbol: –, ., <SP>, $, /, +, % Alphabet: A to Z Start/stop code: * (*1)
ITF	More than 2 column (even number)	Value: 0 to 9
NW-7 (Codaber)	More than 1 column	Value: 0 to 9 Symbol: –, $, :, /, ., +, Alphabet: A to D

*1) Start/stop code is automatically entered, so there is no need to specify it when entering the code.

Note: The SP500 does not support barcode fonts.

5.2.2 Entering the Barcode Font

Barcode fonts consist of the following parameters that are combined together: the parameter to set mode, the parameter to set height, the barcode data, and the parameter for barcode end.

Example: To generate the barcode for '0123ABC' using **CODE39** (2 dot mode, 8 mm height)

Data to enter: apABCDE67890z

a p ABCDE67890 z

- Parameter for barcode end
  Enter "z".
- Barcode data
  Enter actual barcode data.
- Parameter to set height
  Specify within the range of "o" to "v".
- Parameter to set mode
  Specify within the range of "a" to "i".

Print Sample :

For details of each parameter, refer to **"5.2.3 Barcode Font Parameter List"**.

5.2.3 Barcode Font Parameter List

♦ **Parameter to set Minimum module width**

Character to use barcode	UPC-E, UPC-A JAN/EAN-8, JAN/EAN-13	CODE39 NW-7 (*1)	ITF (*1)
a	2 dots	2 dots (6)	2 dots (5)
b	3 dots	3 dots (9)	4 dots (10)
c	4 dots	4 dots (12)	6 dots (15)
d	—	2 dots (5)	2 dots (4)
e	—	3 dots (8)	4 dots (8)
f	—	4 dots (10)	6 dots (12)
g	—	2 dots (4)	2 dots (6)
h	—	3 dots (6)	3 dots (9)
i		4 dots (8)	4 dots (12)

*1) Number in () means number of dots with thick pattern.

♦ **Parameter to set height**

Character to use barcode font	Barcode height
o	Barcode height: 32 dots (4 mm)
p	Barcode height: 64 dots (8 mm)
q	Barcode height: 96 dots (12 mm)
r	Barcode height: 128 dots (16 mm)
s	Barcode height: 160 dots (20 mm)
t	Barcode height: 192 dots (24 mm)
u	Barcode height: 224 dots (28 mm)
v	Barcode height: 255 dots (31.9 mm)

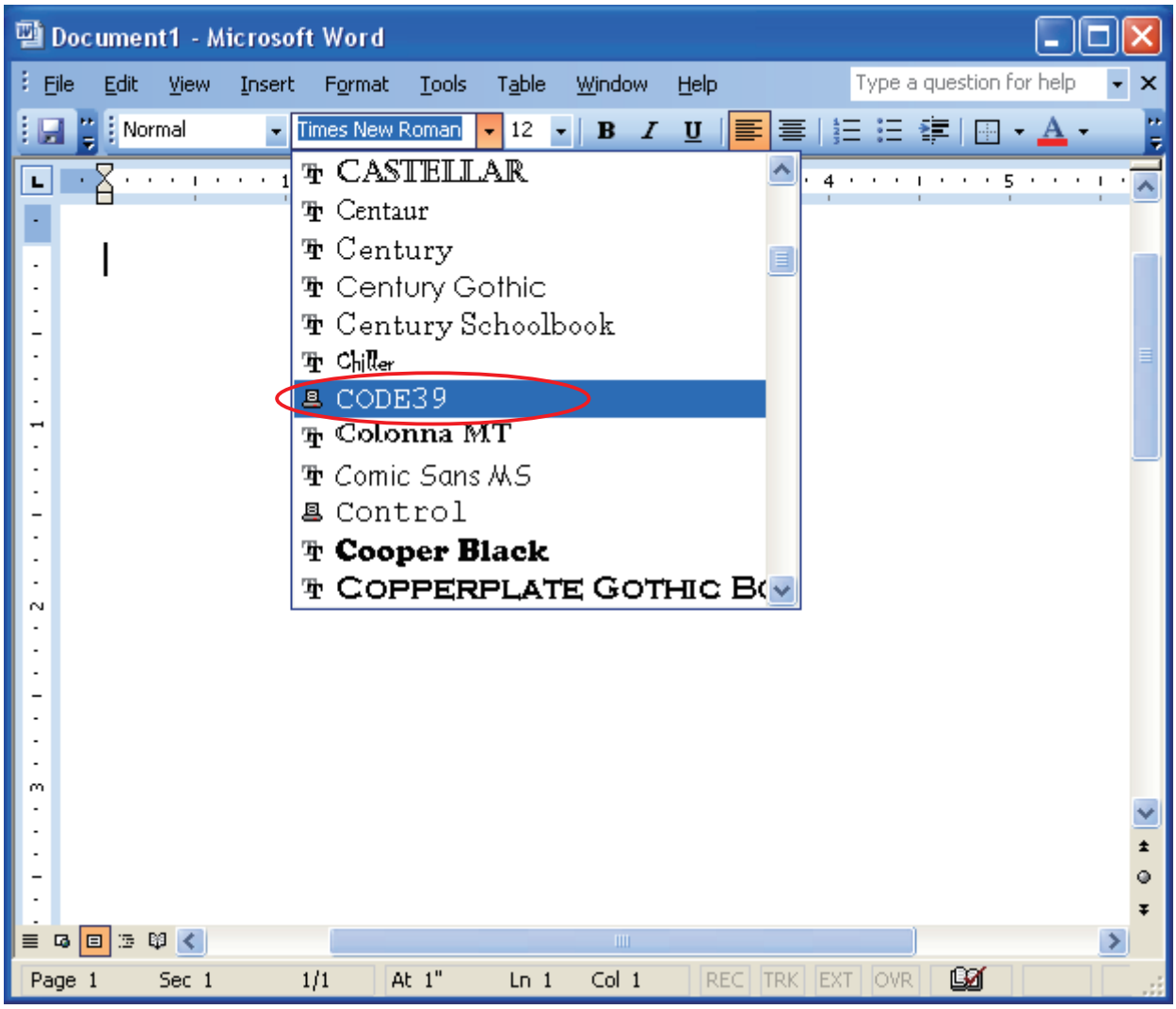
♦ **Parameter for barcode end**

Character to use barcode font	Barcode height
z	Ending code of barcode data (1 EH)

5.2.4 Generating a Barcode Using Microsoft Word

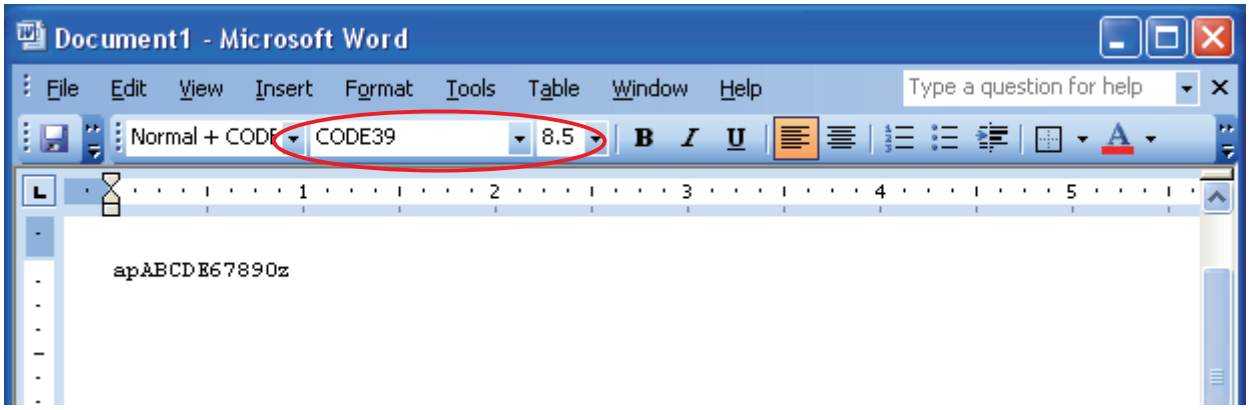
The following is an example of how to set and use barcode fonts.

① Select the device font with the barcode name from the font list.
In the following example, select the barcode font of **CODE39**



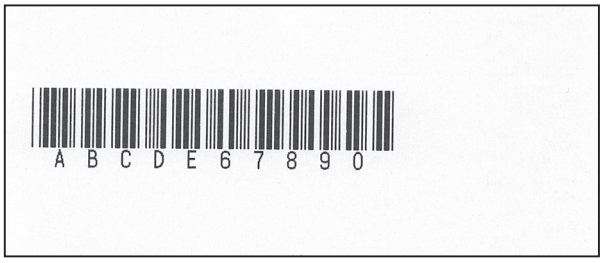
Note: When using device fonts with Microsoft Word, refer to "7.2 Notes for Using Microsoft Word".

② Enter codes.
Also, set the font height. (For CODE39, set the font height to “8.5”.)



③ Print.
When printing, a barcode is generated and printed out.

<Print Sample>



5.3 Control Fonts

Line

This printer driver provides a control font that can be used during operation in Line mode.
The control font is used to execute various printer actions, and is not used for printing. Each character is the font is associated with a particular action.

5.3.1 Control Font Characters and Their Operations

The operations that can be executed through the control font are shown below.

Character	Operation
A	Drive cash drawer 1 (50 ms)
B	Drive cash drawer 1 (100 ms)
C	Drive cash drawer 1 (150 ms)
D	Drive cash drawer 1 (200 ms)
E	Drive cash drawer 1 (250 ms)
d	Drive cash drawer 2 (200 ms)
6	Output LF
7	Output CR
F	Auto-cutter: Full-cut
P	Auto-cutter: Partial-cut
G	Print NV Bit Image 1 in regular mode
H	Print NV Bit Image 2 in regular mode
I	Print NV Bit Image 3 in regular mode
J	Print NV Bit Image 4 in regular mode
K	Print NV Bit Image 5 in regular mode
Q	Print NV Bit Image 1 in double-width mode
R	Print NV Bit Image 2 in double-width mode
S	Print NV Bit Image 3 in double-width mode
T	Print NV Bit Image 4 in double-width mode
U	Print NV Bit Image 5 in double-width mode
V	Print NV Bit Image 1 in double-height mode
W	Print NV Bit Image 2 in double-height mode
X	Print NV Bit Image 3 in double-height mode
Y	Print NV Bit Image 4 in double-height mode
Z	Print NV Bit Image 5 in double-height mode
[	Print NV Bit Image 1 in 4x mode
]	Print NV Bit Image 2 in 4x mode

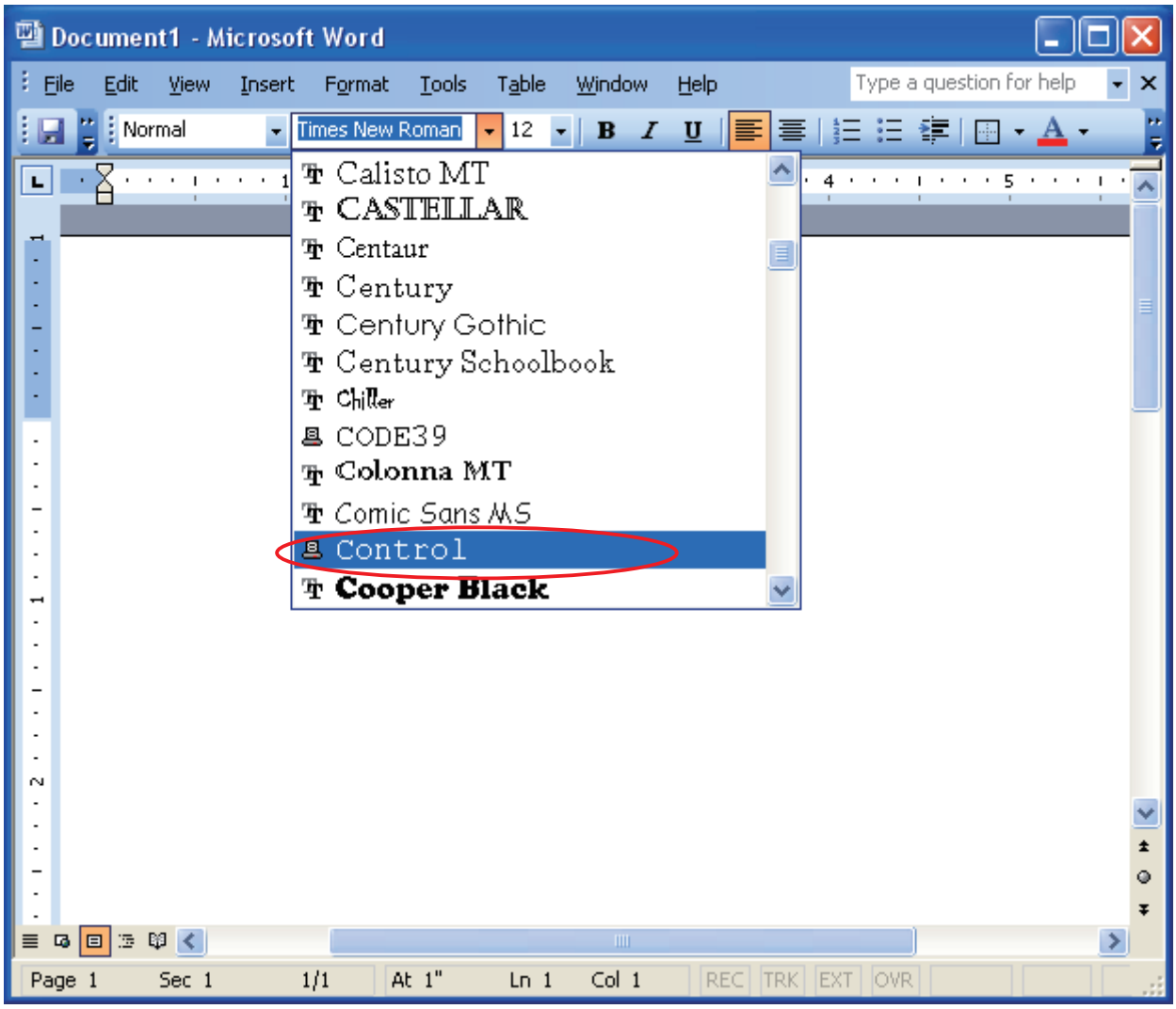
Character	Operation
^	Print NV Bit Image 3 in 4x mode
_	Print NV Bit Image 4 in 4x mode
`	Print NV Bit Image 5 in 4x mode
a	Align left
b	Align center
c	Align right
e	Set new line to 3 mm (1/8 inch)
f	Set new line to 4 mm (1/6 inch)
g	International character select: USA
h	International character select: France
i	International character select: Germany
j	International character select: England
k	International character select: Denmark I
l	International character select: Sweden
m	International character select: Italy
n	International character select: Spain I
o	International character select: Japan
p	International character select: Norway
q	International character select: Denmark II
r	International character select: Spain II
s	International character select: Latin America
t	Print using black/white inversion
u	Cancel black/white inversion
v	Customer display: Start data transfer
w	Customer display: End data transfer
x	Customer display: Display clear

Note: The printer ignores control font characters that it does not support.

5.3.2 Using the Control Font with Microsoft Word

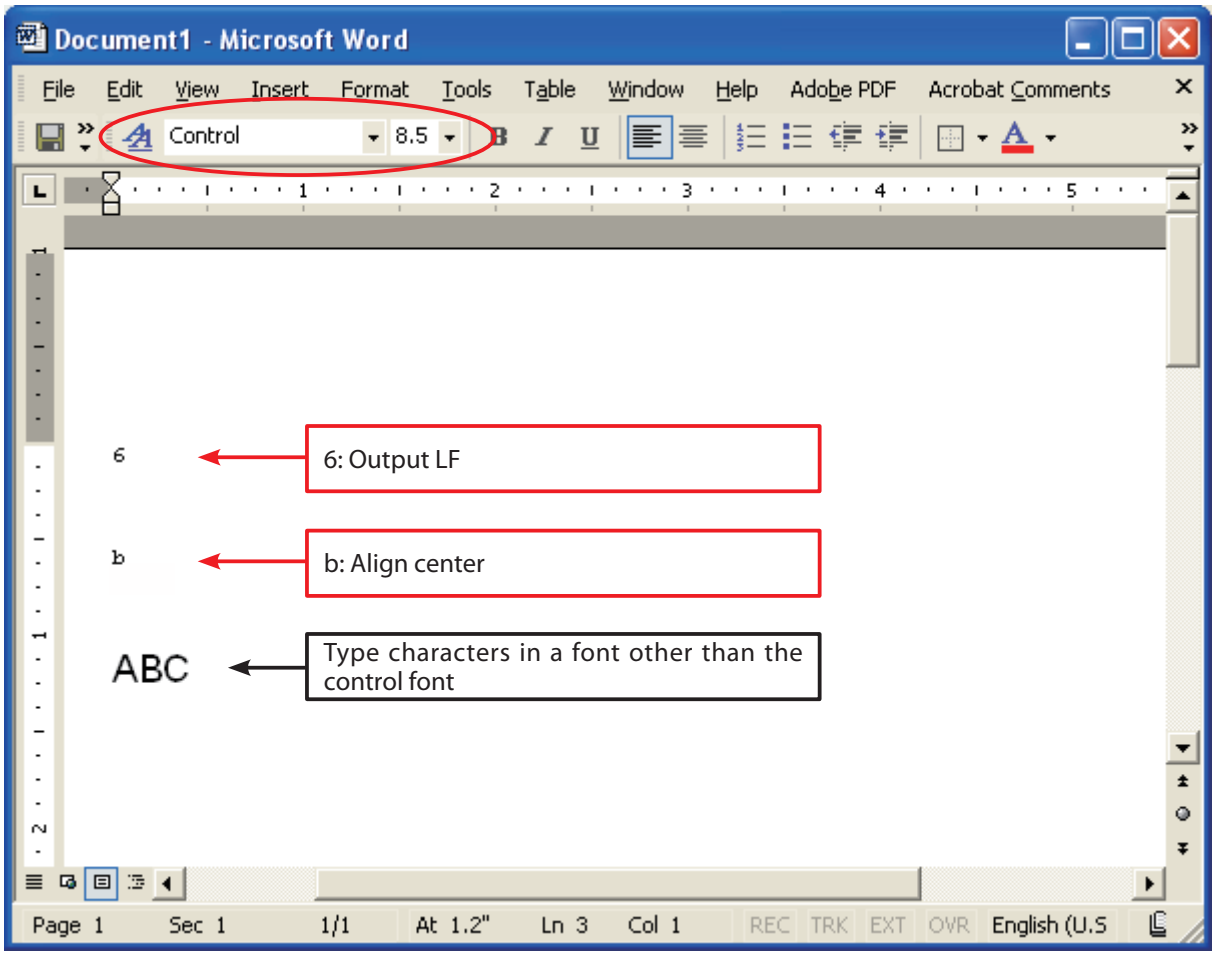
The following is an example of how to use the control font.

① Select the **Control** font from the font list.



Note: When using device fonts with Microsoft Word, refer to "7.2 Notes for Using Microsoft Word".

② Input the character for each operation you wish to execute (refer to "3.4.1 Control Font Characters and Their Operations").



Point! For the characters that set the control font, set the font height to the specified value "8.5".

③ Print.

In this example, the printer executes a linefeed and then prints **ABC** at the center of the page.

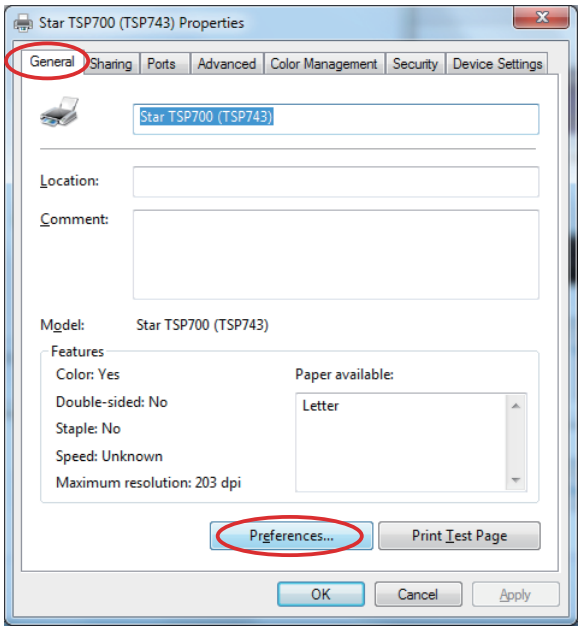
<Print Sample>

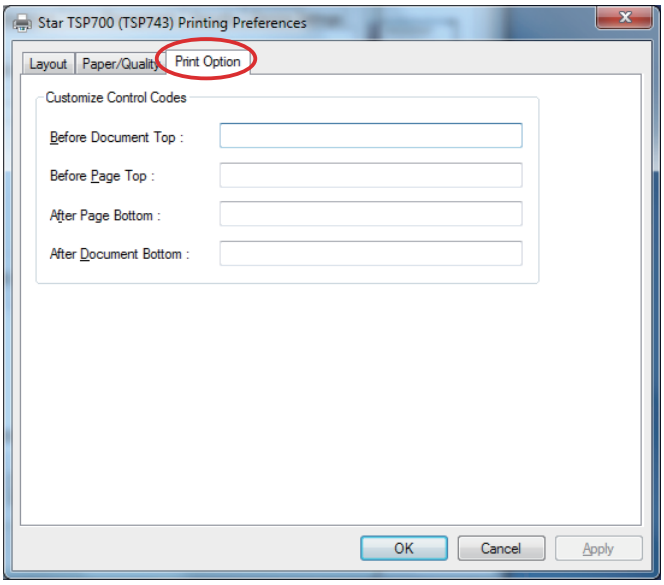
5.4 Restrictions and Precautions

- Please do not use more than one device font on a single line.
  Mixing device fonts on a single line may result in skewed printing.
- Do not include graphic data (Windows fonts, ruled lines, etc.) on the same line with a device font, as this too may cause skewed print results.
- Remember that the "Control" device font cannot be used for normal character printing.
  Use fonts other than the "Control" device font to print characters.
- If you use barcode fonts only the characters corresponding to the codes that you enter appear in the document window of software applications, such as Microsoft Word. The barcode image is generated when you print it.
- If you print barcodes using the device fonts, they may not be printed with the correct page length.

6. Setting the Print Option

By setting the print options, you can make the printer transmit control codes or character strings or both before and after printing.
To display the print options setup screen, on the printer's Properties dialog box, click the General tab, click Preferences to display the Printing Preferences dialog box, and then click the Print Option tab.





You can set the control codes that are transmitted at each of the following points in the printing process.

- Before Document Top
- Before Page Top *
- After Page Bottom *
- After Document Bottom

* These settings are only valid when the print mode is set to "Line."

To set the control codes, enter them in the text boxes that correspond to each point in the printing process according to the format shown below.

Character string :	Direct input
Control Code :	A number entered in hexadecimal format. \xhh (Specify a two-digit hexadecimal number in place of hh.)

< Example >

Input :	Shop Name \x0a Place \x0a Tel and Fax \x0a \x1b\x2d\x31 www.store-url.com \x1b\x2d\x30\x0a
Printed result :	Shop Name Place Tel and Fax www.store-url.com

Point!
- Use **Star Line Mode commands**.
- Up to 500 bytes worth of characters can be entered in each field.

7. Guidelines for Printing Documents

7.1 Notes for Printing via a Serial Interface

7.1.1 Checking the Print Mode

When you are using the serial interface to print from this driver, you must set Print Mode to "Line" for the following models.

Compatible models

- **TSP600 / TSP700 / TSP800 / TUP900**

Note: The "Raster" print mode is not supported if you are using the applicable models through the serial interface.

7.1.2 Configuring Printer and Serial Port Settings

Note also that printer settings and printer-port settings must be correctly matched.

You can check the printer settings by doing a self-print.
For information, refer to the Hardware Manual (issued separately).

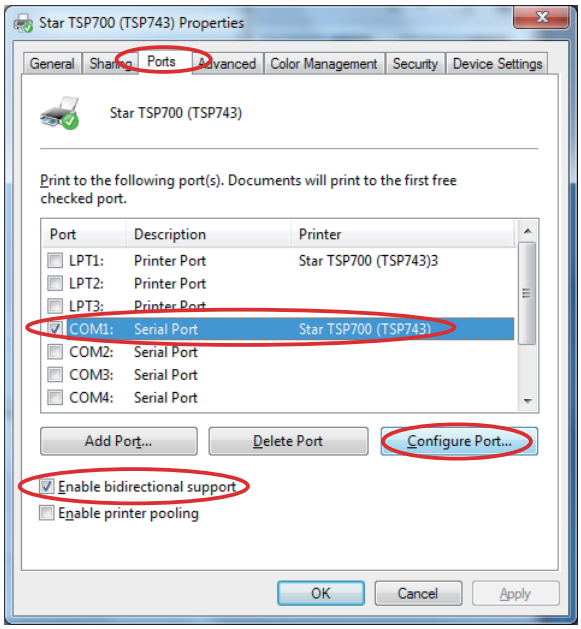
To configure the printer port, proceed as follows.

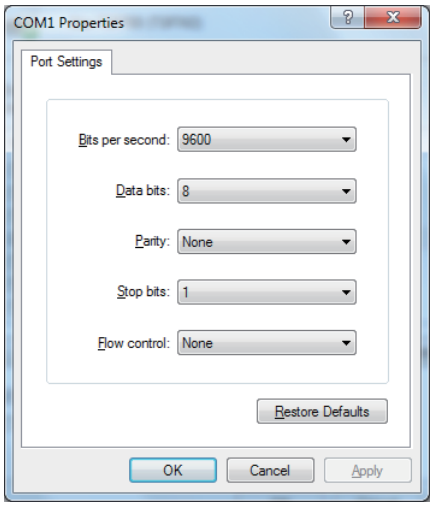
① On the taskbar, click Start. On Windows Vista, click **Control Panel**, and then click **Printers**. On Windows 7, click **Devices and Printers**.

② Right-click the printer queue for the printer drive you want to set. On Windows Vista, click **Run as administrator**, and then click **Properties**. On Windows 7, click **Printer properties**.

③ If you are using Windows Vista, the **User Account Control** dialog appears. Click **Continue**.

④ Click the **Ports** tab.
Select the port you will connect to, and then click the **Configure Port** button to display the port properties dialog box. Match the settings to the printer settings.





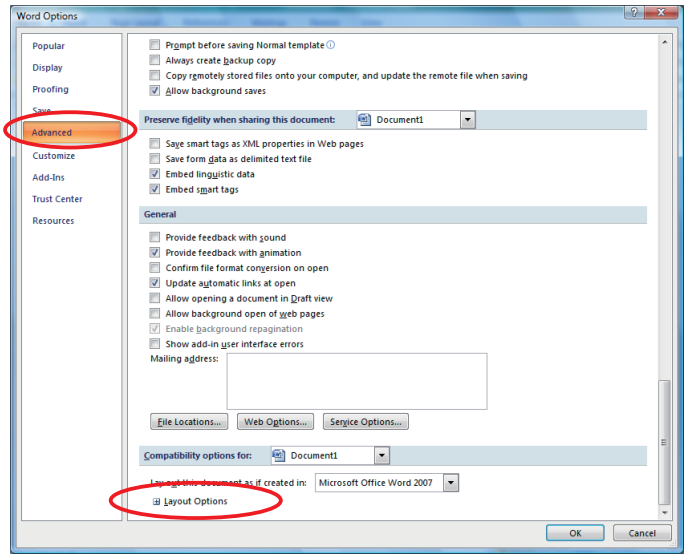
Point! If the **Flow Control** for the serial connection is set to **Xon/Xoff**, clear the **Enable bidirectional support** check box.

7.2 Notes for Using Microsoft Word

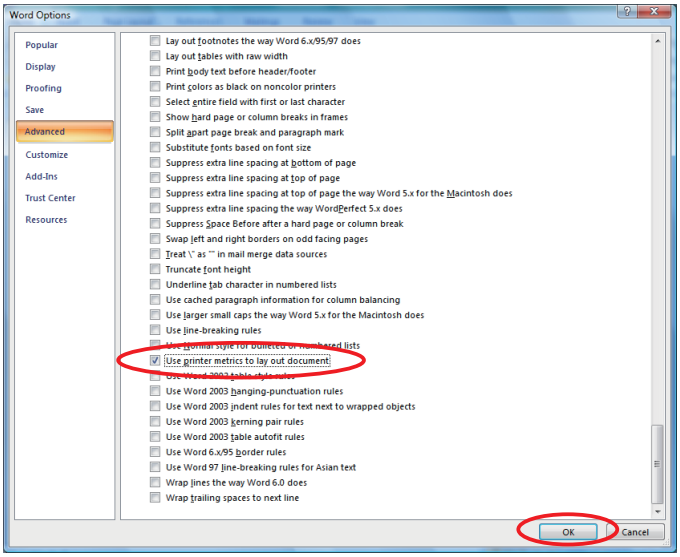
When you use default document formats of Word97 and later, device fonts will not work properly. To enable correct use of device fonts, perform the following settings.

♦ Microsoft Word 2007

① Click the Office Button , and then click the **Word Options** button.



② Select **Advanced**, and click **Layout Options**.
Select the **Use printer metrics to lay out document** check box. Then click the **OK** button.



③ Open Word's **File** menu, and select **Save** to save the document.

Note: When the page settings are changed, the option settings may return to the original settings.

8. Revision History

Rev. No.	Date of Revision	Changes
Rev. 1.0	Jun . 2010	First edition

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