

BarTender Barcode Printing Manual

M00027700
Rev. A

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This manual explains the settings for using BarTender to print out bar codes with TM-C3400

When using BarTender to print out bar codes, the scale of the bar width and space width might change as shown below, making the bar code difficult or even impossible to read with a scanner. Therefore, first you will need to optimize the printer information for BarTender, and then set the bar code object to the recommended minimum values.

Example: For Code128 Type C

Barcode printed out with initial settings



606879

Barcode after resetting values



606879

- ❑ Optimizing printer information [\(page 2\)](#)
 - BarTender Ver.9.20 or later [\(page 2\)](#)
 - BarTender Ver.9.10 or earlier [\(page 4\)](#)
- ❑ Barcode Object settings [\(page 6\)](#)
 - Barcode [\(page 6\)](#)
 - 2D symbol of stack type [\(page 7\)](#)
 - 2D symbol of matrix type [\(page 8\)](#)

Caution:

After optimizing the printer information, set the Barcode Object.

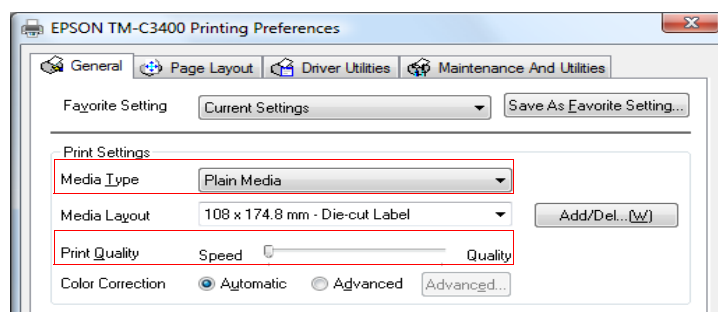
You might not be able to set the recommended minimum value for the Barcode Object.

Optimizing printer information

Install the TM-C3400, and then make the following settings.
The optimization method varies according to the BarTender version.

BarTender Ver.9.20 or later

- 1 Install the TM-C3400 printer driver on the computer.
- 2 Set the printer driver according to the customer's usage conditions.
The printer's resolution will vary according to the Media Type and Print Quality settings in the printer driver.



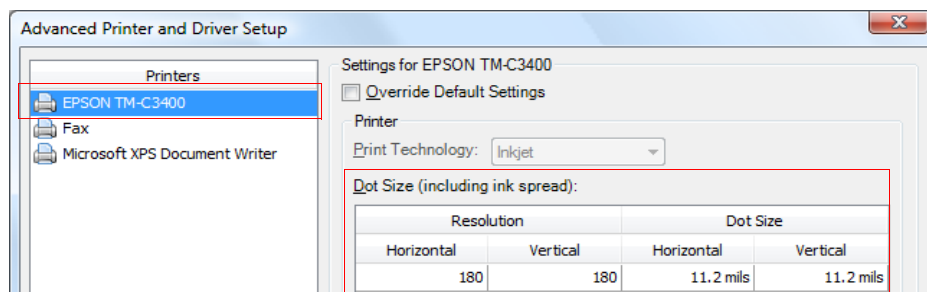
Printer driver settings		Printer Resolution (dpi)
Media Type	Print Quality	
Plain Media	Speed	180
Plain Media Label	Quality	360
Fine Media	Speed	360
PET Film	Quality	360
Synthetic Media Label		

- 3 Click (OK) to exit the printer driver settings.
- 4 Start BarTender.
- 5 Use the New Label Format Wizard to set the media type.
At that time, correctly select the printer you are using in (Printer Selection).
- 6 Select (Advanced Printer and Driver Setup) in the (Administer) menu to open the (Advanced Printer and Driver Setup).

7 Select the printer you are using, and then confirm that the Dot Size is set to the recommended value. See the table below.

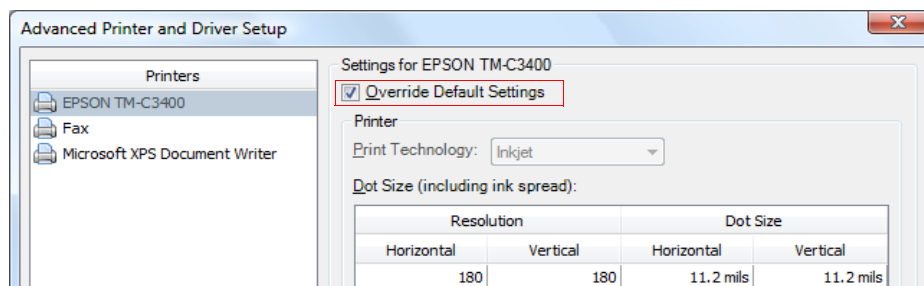
If it has been set to the recommended value, proceed to Step 10.

If it has not been set to the recommended value, proceed to Step 8.

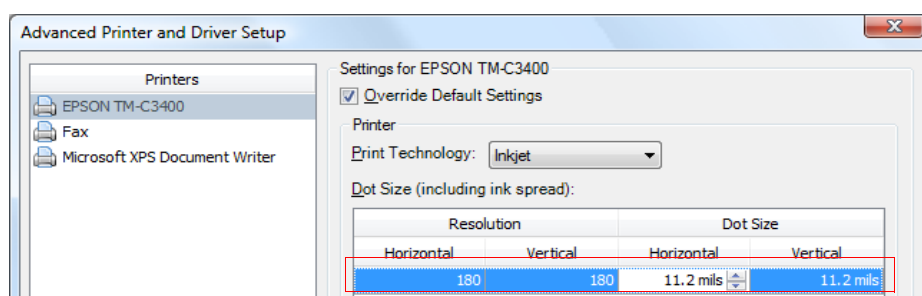


Resolution (dpi)	Dot Size (mils)	
	Horizontal	Vertical
180	8.3	8.3
360	4.2	4.2

8 Add a checkmark to (Override Default Settings).



9 Set (Dot Size). Refer to the recommended values in the table below and then click the (arrow) to make a setting.



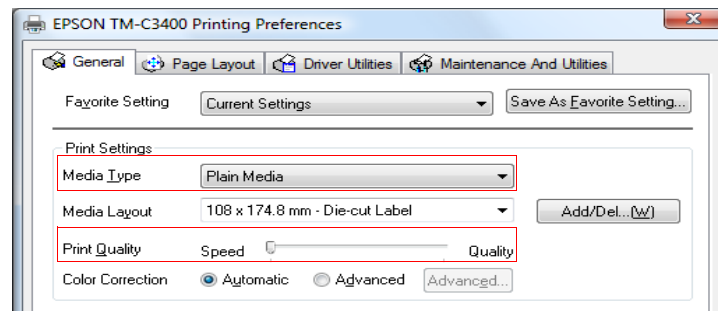
Resolution (dpi)	Dot Size (mils)	
	Horizontal	Vertical
180	8.3	8.3
360	4.2	4.2

10 Click the (OK) button.

This completes the BarTender optimization settings.

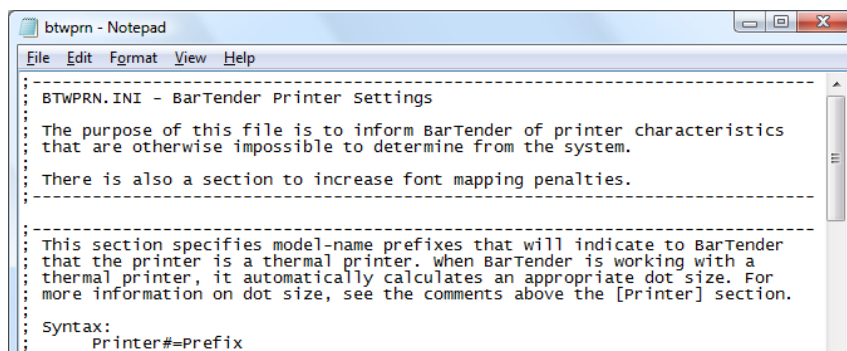
BarTender Ver.9.10 or earlier

- 1 Install the TM-C3400 printer driver on the computer.
- 2 Set the printer driver according to the customer's usage conditions.
The printer's resolution will vary according to the Media Type and Print Quality settings in the printer driver.



Printer driver settings		Printer Resolution (dpi)
Media Type	Print Quality	
Plain Media	Speed	180
Plain Media Label	Quality	360
Fine Media	Speed	360
PET Film	Quality	360
Synthetic Media Label		

- 3 Click (OK) to exit the printer driver settings.
- 4 Use Notepad to open the btwprn.ini file that was created when BarTender was installed. The save location for btwprn.ini is shown below.
 - Windows XP/ Windows Server 2003 :
C:\Documents and Settings\All Users\Application Data\Seagull\BarTender
 - Windows Vista/ Windows 7/ Windows Server 2008 :
C:\ProgramData\Seagull\BarTender

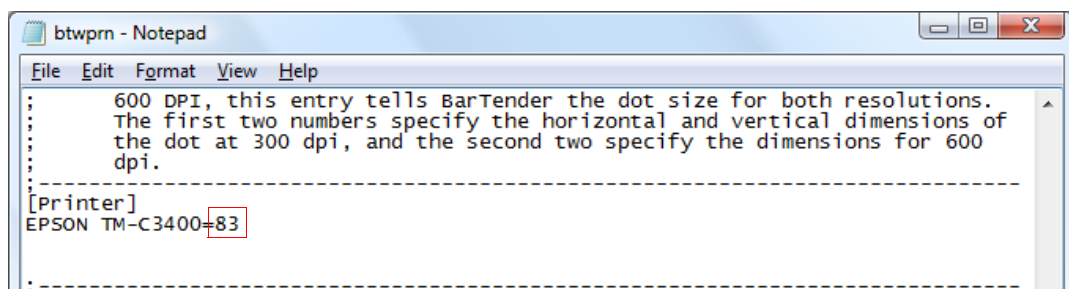


5 Refer to the following regarding resolution, and then edit and overwrite the file as necessary.

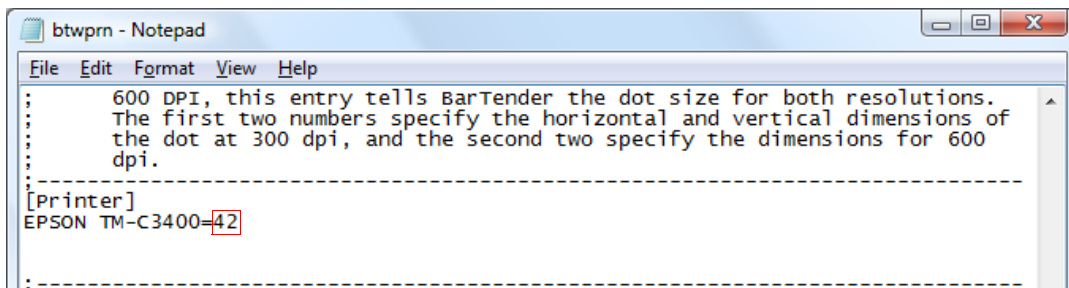
Caution:

- The EPSON TM-C3400=" remark in the btwprn.ini file is added when the TM-C3400 printer driver is installed.
- Functions that allow the setting of multiple resolutions for a single printer with BarTender cannot be used with TM-C3400. If the printer's resolution changes due to the settings used for the TM-C3400 printer driver, you must edit the btwprn.ini file as necessary each time.
- Edit only the locations enclosed in a red frame.

❑ For 180 dpi



❑ For 360 dpi



This completes the BarTender optimization settings.

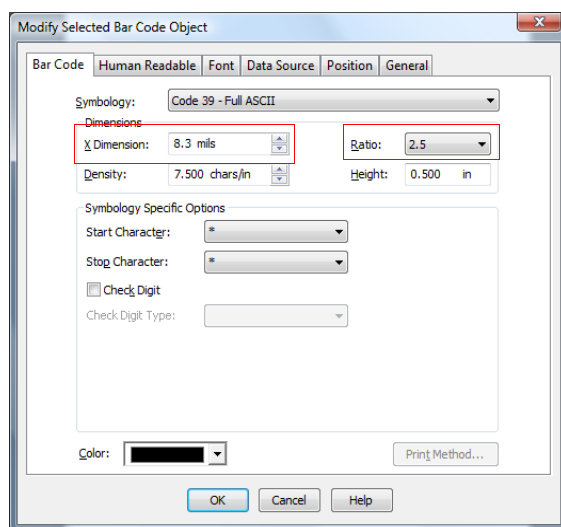
Barcode Object Settings

Set the Barcode Object created in BarTender according to the customer's usage conditions, using the values shown below.

Caution:

Before setting the Barcode Object, make sure that the printer information has been optimized. You might not be able to set the recommended minimum value for the Barcode Object.

Barcode

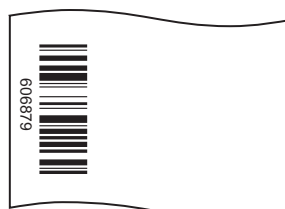


Printing direction *	Printer driver settings		Printer Resolution (dpi)	BarTender settings (Recommended minimum values)	
	Media Type	Print Quality		X Dimension (mils)	Ratio
Fence Barcode	Plain Media	Speed	180	13.9	2.5
	Plain Media Label			8.3	
	Other than the above		360	9.8	
Ladder Barcode	Plain Media	Speed	180	19.4	
	Plain Media Label			13.9	
	Other than the above		360	12.5	

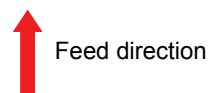
* The printing directions are shown below.



Fence Barcode



Ladder Barcode



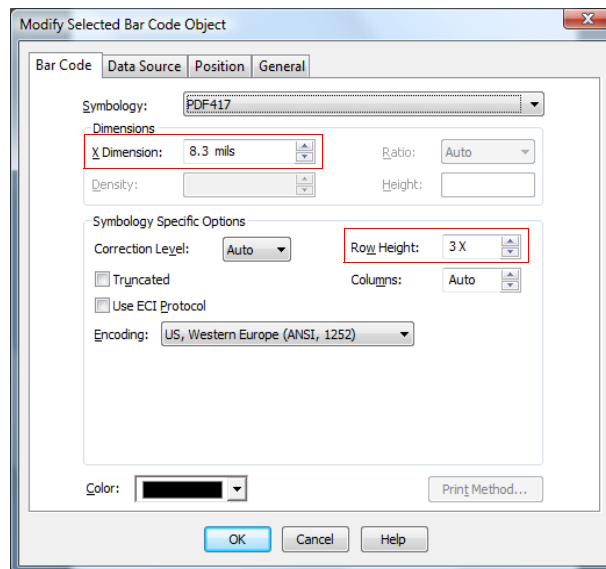
Note:

The values shown above are for the recommended print media.

2D Symbol of Stack type

❑ Symbology

PDF417/ GS1 DataBar Stacked/ GS1 DataBar Stacked Omnidirectional, /GS1 DataBar Expanded Stacked, etc.



Printer driver settings		Printer Resolution (dpi)	BarTender settings (Recommended minimum values)	
Media Type	Print Quality		X Dimension (mils)	Row Height
Plain Media	Speed	180	8.3	3X
Plain Media Label	Quality	360	7.0	
Other than the above		360	7.0	

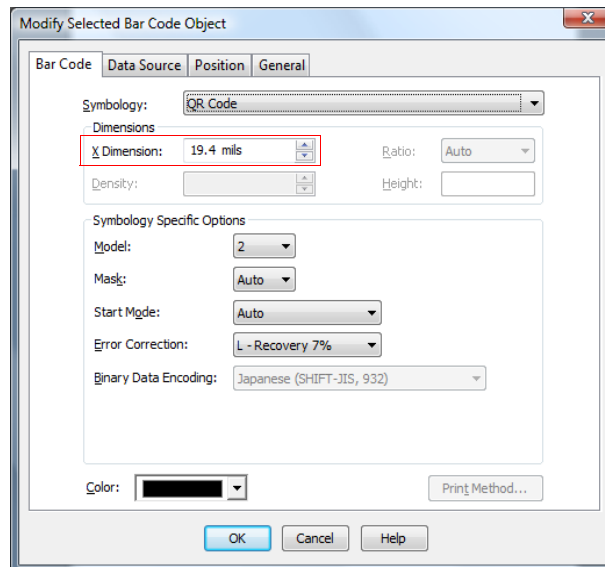
Note:

The values shown above are for the recommended print media.

2D Symbol of Matrix type

❑ Symbology

QR Code/ DataMatrix, etc.



Symbol position *	Printer driver settings		Printer Resolution (dpi)	BarTender settings (Recommended minimum values)
	Media Type	Print Quality		X Dimension (mils)
No Paper feed	Plain Media	Speed	180	19.4
	Plain Media Label	Quality	360	18.1
	Other than the above		360	13.5
With Paper feed	Plain Media	Speed	180	25.0
	Plain Media Label	Quality	360	23.6
	Other than the above		360	18.1

*) You can use the Print Preview function in the printer driver to make sure that the symbol does not fall outside of the printing area. For details, see ["Symbol Printing Position" on page 9](#).

Note:

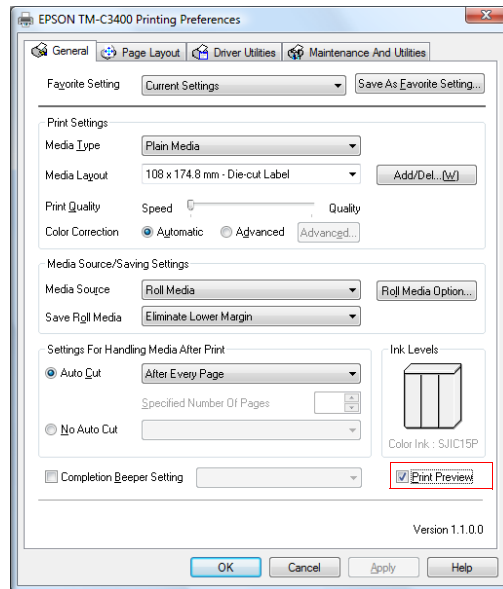
The values shown above are for the recommended print media.

Symbol Printing Position

The value to set for [X Dimension] will vary depending on whether the symbol printing position falls outside of the printing area.

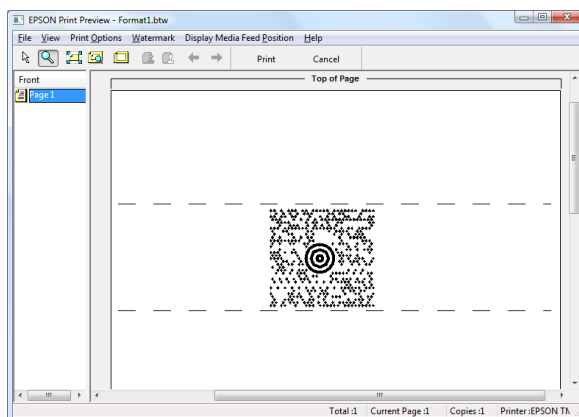
Use the following procedure to check the symbol printing position.

- 1 Add a checkmark to (Print Preview) in the TM-C3400 printer driver, and then click the (OK) button.



- 2 When printing, the (EPSON Print Preview) window will appear. The dashed lines shown here indicate the printing area. Check if the symbol position falls inside or outside of the printing area.

No Paper feed (Inside the printing area)



With Paper feed (Outside the printing area)

