

PrecisionID Postnet Barcode Font User Manual

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Postnet Symbolgy Overview

The USPS defines a few different methods of printing Postnet. The 5 digit Postnet barcode consists of the start/stop character, 5 digit ZIP code data, check digit and the start/stop character. The ZIP plus 4 Postnet bar code consists of the start/stop character, 9 digit ZIP code data, check digit and the start/stop character. The most popular Postnet barcode in use today is the DPBC Postnet, which consists of the start/stop character, 9 digit ZIP code data, two DPBC numbers, a check digit and the start/stop character, for a total of 62 bars. The two DPBC numbers are usually the last two digits of the street address or PO Box number. To obtain more information, we recommend obtaining the USPS document titled Domestic Mail Manual from www.usps.gov.

Product Overview

This Postnet Barcode Font Package contains 2 versions of TrueType and PostScript fonts, each supplied in normal and light format (which is about 15% lighter). The package also contains complete documentation, specifications and implementation examples. In the event that your data source does not already contain the required check digit, we provide PrecisionID Font Formatting Components™ which include a Crystal Reports UFL, Microsoft VBA module for Excel and Access and Visual Basic source code, which may also be used as a guide for conversion to other languages. All barcodes require start and stop characters. Our Postnet fonts use either the asterisk or the open and closing parenthesis as the start

and stop character. We also include FIM and other Postnet related bar codes types in the Postnet font including Business Reply Mail and OCR Readable Mail.

In this package, we also include the Planet font. The Planet barcode is used for tracking USPS mail. Our PrecisionID_PNET() function may also be used to calculate the check character for the Planet barcode because the check character calculation is the same as a Postnet barcode.

Installation

Microsoft Windows

Decompress the fonts in the supplied ZIP file with a decompression utility, such as Winzip. Our fonts are compatible with all 32 bit versions of Windows. We recommend using the supplied **Setup.exe** file to install the fonts automatically in Windows. If you wish to manually install the fonts in Windows, open Control Panel and choose Fonts; then choose Install New Font and browse to the folder that contains the fonts with the TTF extension you extracted from the zip file.

Macintosh OS X

Our fonts are compatible with all versions of Macintosh OS Version 10.1 and greater (OSX). Decompress the fonts in the supplied ZIP file with a decompression utility, such as Stuffit Expander. Drag the files with the TTF extension to the Library/Fonts folder of your hard drive. To activate the fonts, restart the application; some applications may require a restart of the computer.

Other Operating Systems

We supply Windows TrueType (TTF) fonts as well as Binary (PFB) and ASCII (PFA) versions of PostScript fonts. Consult the documentation for your operating system about instructions and which font to install.

Using the Fonts to Create Bar Codes

If your source data already includes the required MOD10 check digit, all you have to do is append the parenthesis to the beginning and ending of the data, for example: (123451234122). In this case, you do not need to use our PrecisionID Font Formatting Components™. The complete Postnet barcode consists of the start/stop character “(”, zipcode data “12345123412”, a check digit “2” and the start/stop character “)”. The result should look something like this: (123451234122).

If your check digit is not already included in your data, we recommend using the PrecisionID Font Formatting Components™ which automatically calculate the required Start, Stop and MOD 10 check characters and simply return the text that is formatted to the barcode font. When this text is printed with our barcode font, a correct barcode is created.

To calculate the check digit manually, we suggest following the Visual Basic source code we provide. This code is located in the [Examples\VB Module](#) folder of the package.

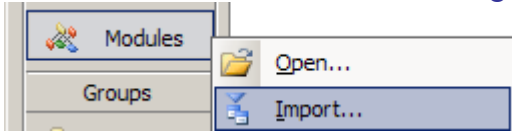
Tutorials for Specific Applications

The results for the following tutorials are saved in the [examples](#) folder of the product zip file. We encourage you to refer to the examples provided in this folder. These examples assume your data does not contain the required check digit.

Microsoft Access

To create a barcode in a Microsoft Access report:

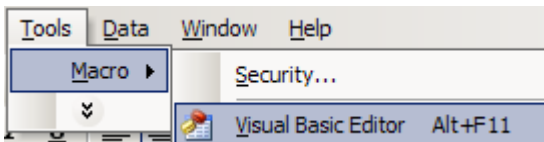
1. Run the Setup program to install the fonts and Access Example file.
2. Before we can create barcodes in Access, we must import the required module. Choose Modules – Import and select the Access Example.mdb file, which will be located in the [Program Files\Precision ID Postnet Font Package](#) folder.



3. Choose the module to import from the other database; this module should be named [PrecisionID_Postnet_Module](#). After it is properly imported, it will appear as one of the modules in the database.
4. Open a report in design view and add a text box to your report. The text box will be modified to contain a barcode.
5. Right click on the text box and choose properties.
6. Place the formula `=PrecisionID_PNET([Table1.Field1])` in the control source property of the text box where Table1 is the table and Field1 is the field that contains the data you want to barcode.
7. Run the report. You should see that the formula changed the data from the database and appended additional start/stop characters at the beginning and ending of the text and calculated the check digit. The result should look something like this: (123451234122).
8. Open a report in design view, select the text box and choose the [PrecisionID Postnet](#) font and choose 10 for the point size of the font. You must select the appropriate font for the formula you are using. For example, if you have a formula for a Postnet barcode, you must select the Postnet Font.
9. Size the text box so it is large enough to contain the entire barcode. You will need to adjust both the height and width. Be sure to leave some extra space to the right and left of the barcode on the report. Generally, you need about 10 times the space to the left and right of the barcode as the thickest bar in the Postnet barcode.
10. Save and run your report. You should see the barcode appear in the text box. The result should look something like this:
(123451234122)

Microsoft Excel

1. In this example, we will create a barcode in cell B10 using the data from cell A10 for the barcode.
2. Extract the [PrecisionID_Postnet_Module.bas](#) file from the package and place it in the “My Documents” folder.
3. Before we can create barcodes in Excel, we must import the required module and change the security setting so it will run. In Excel, choose Tools – Macro – Security and set the security level to Medium. Choose Tools – Macro – Visual Basic Editor.



4. Choose File – Import File and select the [PrecisionID_Postnet_Module.bas](#) file from the list of files. After this module is imported, it will be visible in the list of modules. Choose File – Save, then Close and return to Excel.


5. In cell B8, enter the formula of `=PrecisionID_PNET(A8)` which is required to format the data to the font.

	A	B
9	Text Data	Barcode
10	19293-1234	=PrecisionID_PNET(A10)

6. You should notice that the formula changed the data from the spreadsheet and appended additional characters at the beginning and ending of the text.

	A	B
9	Text Data	Barcode
10	19293-1234	(1929312346)

7. With cell B10 selected, choose the **PrecisionID Postnet** font, and choose 10 for the point size. You must select the appropriate font for the formula you are using. For example, if you have a formula for a Postnet barcode, you must use the Postnet Font.
8. After selecting the bar code font, you should see the barcode appear. Size the width of the column so that there is some white space before and after the bars of the barcode.

	A	B
10	19293-1234	

9. To create an entire column of barcodes, choose Edit – Copy with cell B10 selected.
10. Highlight cells you wish to add barcodes to and choose Edit - Paste. The formula will automatically adjust for the other cells.

Microsoft Word Mail-merge

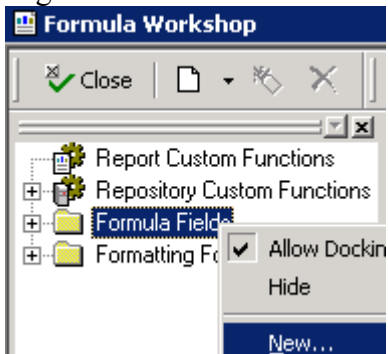
1. Open the mail merge document.
2. To create a barcode in a Word mail-merge, we must insert a merge field from a data source that already formatted the text to the barcode font. In this example, we use Excel as the data source. The Excel spreadsheet data source must already be setup with barcodes just like the Excel Tutorial in this document.
3. In Word, Choose Tools – Letters and Mailings – Mail Merge and select the Excel spreadsheet for your data source. Be sure to select the columns and range for the cells that contain the data formatted to the barcode font. You may have to go through the Word mail-merge tutorial for assistance if you are unsure of how to connect to a data source or perform a mail-merge.
4. When connected to the data source, we insert the merge field of `<FormattedText>` into the document. When we choose the “View Merged Data” option, we see the text formatted to the barcode font from the data source appear. The result should look something like this:
(123451234122).
5. Choose the **PrecisionID Postnet** font for this merged field, and choose 10 for the point size.
6. The barcode should appear when you run the merge.

Crystal Reports

This example was created in Crystal Reports version 8. Implementation in other versions of Crystal Reports is very similar if not identical. The fonts and UFL are compatible with Crystal version 7 and above.

1. Open your Crystal Report and switch to design mode. In version 8, choose Insert – Formula Field or in version 9 and above choose Report – Formula Workshop.

2. Right Click on Formula Fields and choose New.



3. Give your formula field a name, in this example we will name it [PrecisionID_Barcode1](#). In versions 9 and above, if you are asked to use the editor or the expert, choose Use Editor.
4. In the Formula Editor, choose Functions - Additional Functions and select the [PrecisionID_PNET\(\)](#) function. The U25PrecisionID.dll UFL file must be installed before you can use this formula or you will receive an error. This UFL file is installed by running the Setup.exe file in the font package. The U25PrecisionID.dll file is also provided in the Crystal DLL folder of the Zip file. To manually install it, copy it to the Windows System directory or the directory where the Crystal DLLs are located. When the U25PrecisionID.dll file is installed and active, the PrecisionID formulas will appear in the Formula Workshop under Additional Functions.
5. Place the cursor between the parentheses in the formula and select the field you wish to encode in the barcode from the Report Fields area in the Formula Editor. A correct formula will appear something like [PrecisionID_PNET \({Table1.Field1}\)](#) where Table1.Field1 is the table and field of your database.
6. The tables and fields should be visible above in your database connection. Choose Save and Close.
7. From the Field Explorer, drag the [PrecisionID_Barcode1](#) Formula Field to the report.
8. Choose File – Print Preview. You should see that the formula field formatted the data from the database and appended additional characters at the beginning and ending of the text. The result should look something like this: (123451234122).
9. Switch back to design mode, select the formula field and choose the [PrecisionID Postnet](#) font. Set the point size to 10 points or to the size appropriate for your application. You must select the appropriate font for the formula you are using.
10. Size the formula field so it is large enough to contain the entire barcode. You will need to adjust the width. Be sure to leave some extra space to the right and left of the barcode on the report. Generally, you need about 10 times the space to the left and right of the barcode as the thickest bar in the Postnet barcode.
11. The barcode should now be visible when you run your report.

Information for Specific Implementations

Creating Check Digits in other Applications

The easiest method of creating source code for a check digit in a custom application is to use our [PrecisionID_Postnet_Module.bas](#) module as a guide. The module was written to be compatible with Visual Basic 6 and Microsoft Office VBA and may be viewed with a text editor. This module is located in the [Examples\VB Module](#) folder of the package.

Specifications










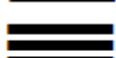


Font Names and Point Sizes

Our fonts are designed to print with precision on both high and low resolution printers. When printed at 10 points, the fonts meet the USPS standard, which is 22 to 24 bars per inch.

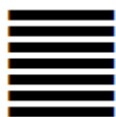
Font Name	Purpose
PrecisionID Postnet	Normal Postnet Font
PrecisionID Postnet L	Postnet Font 15% lighter (use on printers that print darker than normal)
PrecisionID Planet *	Normal Planet Font
PrecisionID Planet L *	Planet Font 15% lighter (use on printers that print darker than normal)
* Our PrecisionID_PNET() function may also be used to calculate the check character for the Planet barcode because the check character calculation is the same as a Postnet barcode.	

FIM and other Postnet Related Bar Code Types

Our Postnet fonts include FIM and other Postnet related bar code types in the Postnet font including Business Reply Mail and OCR Readable Mail according to the chart below:

Font Name: PrecisionID Postnet	
Character:	Symbol and recommended point size to print at:
A	 28 or 20 points
B	 28 or 20 points
C	 28 or 20 points
D	 28 or 20 points
G	 36 points
H	 36 points
I	 48 points
J	 48 points
K	 48 points
L	 48 points
M	 48 points
N	 48 points

O



48 points

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