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NOTE: This equipment has been tested and found to comply with the limits or a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet or circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

WARNING: Exposure to Radio Frequency radiation. To conform to FCC RF exposure requirements this device shall be used in accordance with the operating conditions and instructions listed in this manual.

NOTE: This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to insure compliance.

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1. Manual Information

This Windows Driver Installation Manual provides information on installation, detailed specifications, and usage of the printer’s Windows Driver according to PC operating system (OS).

2. Operating System (OS) Environment

The following operating systems are supported for usage:

- Microsoft Windows 98 Gold
- Microsoft Windows 98 Second Edition
- Microsoft Windows Millennium Edition
- Microsoft Windows 2000
- Microsoft Windows XP
- Microsoft Windows 2003 Server
- Microsoft Windows Embedded For Point Of Service
- Microsoft Windows VISTA 32-bit

3. Windows Driver Preparation

The Windows Driver is included in the enclosed CD, and can also be downloaded from the Zebra website.
(http://www.zebra.com/)

If downloading from the Zebra website, first download the EM 220_Vx.x.xx.zip file, then unzip the file, and run the EM 220_Vx.x.xx.exe file.

If using the enclosed CD, click the “Windows Driver” button to find and run the Windows Driver installation file (EM 220_Vx.x.xx.exe).
4. Windows Driver Installation

4-1 Installing on Windows 98/ME

4-1-1 Via Serial Port

1) Double-click the Windows Driver installation file (EM 220_Vx.x.xx.exe).
2) Click the “Next” button.
3) Select the COM port to be used and click the “Next” button.

4) Clicking the “Yes” button will reboot the PC.

5) Open the printer properties window in the Windows OS.

6) Click the “Port Settings…” button in the “Details” tab.

7) Match the communication settings to those of the printer. (The communication settings of the printer can be performed by conducting a self-test.)
8) Click the “Print Test Page” button and check printing status.

9) Proper installation of the driver is indicated if the test page is printed normally.
4-1-2 Via USB Port

1) Double-click the Windows Driver installation file (EM 220_Vx.x.xx.exe).

2) Click the “Next” button.

3) Select USB and click the “Next” button.
4) Clicking the “OK” button will reboot the PC.

5) Turn on the printer.

6) When the New Hardware Wizard appears for the installation of the “USB Printing Support” Driver, click the “Next” button.

7) Continue to click the “Next” button.
8) Continue to click the “Next” button.

9) Continue to click the “Next” button.
10) When the “USB Printing Support” Driver installation is complete, the system automatically reboots.

11) After system rebooting, the Windows Driver is automatically installed.
* If an error occurs during software installation, save the location. (Location: “C:\WINDOWS\EM220\usb”)

12) Confirm the USB Port setting in the Windows Driver properties.
13) Click the “Print Test Page” button and check printing status.

14) Proper installation of the driver is indicated if the test page is printed normally.
4-2 Installing on Windows 2000

4-2-1 Via Serial Port or Bluetooth

1) Double-click the Windows Driver installation file (EM 220_Vx.x.xx.exe).

2) Click the “Next” button.

3) Select the COM port to be used and click the “Next” button.
4) If using Bluetooth, click the “Yes” button.
- Click “No” if using a Serial port.
- To use Bluetooth, first install the corresponding product software. (Refer to the user manual of the corresponding product.)

5) When the following message box appears, click the “Yes” button.
6) Clicking the “Yes” button will reboot the PC.

7) Open the printer properties window in the Windows OS.

8) Click the “Port Settings” button in the “Ports” tab.

9) Match the communication settings to those of the printer.
   (The communication settings of the printer can be performed by conducting a self-test.)
10) Click the “Print Test Page” button and check printing status.

11) Proper installation of the driver is indicated if the test page is printed normally.
4-2-2 Via USB Port

1) Double-click the Windows Driver installation file (EM 220_Vx.x.xx.exe).

2) Click the “Next” button.

3) Select USB and click the “Next” button.
4) When the following message box appears, click the “Yes” button.

![Digital Signature Not Found]

The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.

The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that the software works correctly with Windows.

Unknown software package

If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.

Do you want to continue the installation?

5) Click the “OK” button.

![Zebra EM 220 installer]

Installation is completed. Please turn-off printer and turn-on printer.

6) Turn on the printer.

7) The Windows Driver is automatically installed.

![Found New Hardware]

Zebra EM 220
8) The USB Port setting can be confirmed in the Windows Driver properties.

9) Click the “Print Test Page” button and check printing status.

10) Proper installation of the driver is indicated if the test page is printed normally.
4-3 Installing on Windows XP/2003 Server

4-3-1 Via Serial Port or Bluetooth

1) Double-click the Windows Driver installation file (EM 220_Vx.x.xx.exe).

2) Click the “Next” button.

3) Select the COM port to be used and click the “Next” button.
4) If using Bluetooth, click the “Yes” button. 
- Click “No” if using a Serial port.
- To use Bluetooth, first install the corresponding product software. (Refer to the user manual of the corresponding product.)

![Zebra EM Z20 installer](image)

* Select the Bluetooth Driver to be used.
  “Yes”: to use an IVT, Broadcom Driver
  “No”: to use a driver supplied by the Windows OS

![Zebra EM Z20 installer](image)

5) When the following message box appears, click the “Continue Anyway” button.
6) Clicking the “Yes” button will reboot the PC.

7) Open the printer properties window in the Windows OS.

8) Click the “Port Settings” button in the “Ports” tab.

9) Match the communication settings to those of the printer.
   (The communication settings of the printer can be performed by conducting a self-test.)
10) Click the “Print Test Page” button and check printing status.

11) Proper installation of the driver is indicated if the test page is printed normally.
4-3-2 Via USB Port

1) Double-click the Windows Driver installation file (EM 220_Vx.x.xx.exe).

2) Click the “Next” button.

3) Select USB and click the “Next” button.
4) Click the “OK” button.

![Zebra EM 220 installer]

5) Turn on the printer.

6) When the New Hardware Wizard appears for the installation of the Windows Driver, select the option as shown below and click the “Next” button.

![Found New Hardware Wizard]
7) Click the “Next” button.

8) Click the “Next” button.
9) Click the “Next” button.

10) Click the “Continue Anyway” button.
11) Click the “Finish” button.

12) The USB Port setting can be confirmed in the Windows Driver properties.
13) Click the “Print Test Page” button and check printing status.

14) Proper installation of the driver is indicated if the test page is printed normally.
4-4 Installing on Windows VISTA

4-4-1 Via Serial Port or Bluetooth

1) Double-click the Windows Driver installation file (EM 220_Vx.x.xx.exe).

2) Click the “Next” button.

3) Select the COM port to be used and click the “Next” button.
4) If using Bluetooth, click the “Yes” button.
   - Click “No” if using a Serial port.
   - To use Bluetooth, first install the corresponding product software.
     (Refer to the user manual of the corresponding product.)

* Select the Bluetooth Driver to be used.
  “Yes”: to use an IVT, Broadcom Driver
  “No”: to use a driver supplied by the Windows OS

5) When the following message box appears, click the “Install this driver software anyway” button.
6) Clicking the “Yes” button will reboot the PC.

![Image of computer restart dialog]

7) Open the printer properties window in the Windows OS.

8) Click the “Port Settings” button in the “Ports” tab.

9) Match the communication settings to those of the printer. (The communication settings of the printer can be performed by conducting a self-test.)

![Image of COM1 properties window]
10) Click the “Print Test Page” button and check printing status.

11) Proper installation of the driver is indicated if the test page is printed normally.
4-4-2 Via USB Port

1) Double-click the Windows Driver installation file (EM 220_Vx.x.xx.exe).
2) Click the “Next” button.

3) Select USB and click the “Next” button.
4) Click the “OK” button.

5) Turn on the printer.
6) The USB Port setting can be confirmed in the Windows Driver properties.

7) Click the “Print Test Page” button and check printing status.

8) Proper installation of the driver is indicated if the test page is printed normally.
5. Detailed Windows Driver Settings

The following functions can be set in detail after the Windows Driver installation is complete.

5-1 Paper Supply Method

The printer structure is such that the print head, which carries out printing, and the cutter, which cuts the printing paper, are separated. After printing, the location of the end section can be adjusted as follows.

- Automatically Select: Select the “Receipt” automatically.
- Receipt: Printed text is transferred up to the cutter (manual cutter).
- Receipt [No feed]: Printed text is transferred up to the next line only.
  (minimum transfer: 0x0A).
- Form: For long print jobs, printed text is transferred according to the Receipt option per selected paper size.

Detailed setting can be done as follows.

1) Open the printer properties window in the Windows OS.
2) Click the “Printing Preferences” button in the “General” tab. The button name varies by Windows OS. Refer to the following:

- Windows 95/98/ME: “Properties”
- Windows NT4.0: “Document Defaults”
- Windows WEPOS/VISTA: “Printing Preferences”

3) Select the desired setting in the “Paper/Quality” tab. (Resolution is fixed at 203 × 203.)
5-2 Paper Size

The paper sizes available in the Windows Driver are as follows:

- 58 × 297 mm [220]
- 58 × 3276 mm [220]
- Custom Size (Windows 9x supported)

Detailed setting can be done as follows:

1) Open the printer properties window in the Windows OS.

2) Click the “Printing Preferences” button in the “General” tab. The button name varies by Windows OS. Refer to the following:

   - Windows 95/98/ME: “Properties”
   - Windows NT4.0: “Document Defaults”
   - Windows WEPOS/VISTA: “Printing Preferences”

3) Select the “Paper/Quality” tab, and click the “Advanced” button. Select the desired setting.

![Zebra EM 220 Advanced Options](image)
5-3 Additional Commands

The Windows Driver serves to receive the content for print from an application and send it to the printer. The Additional Commands function allows for the addition of desired commands at the beginning or end of the print content sent to the printer.

The command functions available are as follows:

- BeginDoc: addition of command at the beginning of the print content
- EndDoc1: addition of command at the end of the print content
- EndDoc2: addition of line feeding at the end of the print content

Detailed setting can be done as follows:

1) Open the printer properties window in the Windows OS.

2) Click the “Additional Commands” tab.
3) If the user opts to open Cash Drawer 1 prior to printing, enter “\x1B\x70\x00\x19\xff” in the “BeginDoc” space and click the “OK” button.

4) If the user opts to open Cash Drawer 1 at the end of printing, enter “\x1B\x70\x00\x19\xff” in the “EndDoc1” space and click the “OK” button.

5) If the user opts to feed three lines at the end of printing, enter “3” in the “EndDoc2” space and click the “OK” button.

For more information on the hexadecimals that can be entered in “BeginDoc” and “EndDoc1”, refer to the Control Commands Manual.
6. Windows Driver Specifications

6-1 Fonts

The Windows Driver of the printer supports the fonts listed below. Printing is done at faster speed when using the fonts below as opposed to the Windows fonts of the OS.

<table>
<thead>
<tr>
<th>Printer Fonts</th>
<th>Character Size (dot)</th>
<th>Sizes (point)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FontA1x1</td>
<td>FontA1x1[Ext.]</td>
<td>FontA1x1[255]</td>
</tr>
<tr>
<td>FontA1x2</td>
<td>FontA1x2[Ext.]</td>
<td>FontA1x2[255]</td>
</tr>
<tr>
<td>FontA2x1</td>
<td>FontA2x1[Ext.]</td>
<td>FontA2x1[255]</td>
</tr>
<tr>
<td>FontA2x2</td>
<td>FontA2x2[Ext.]</td>
<td>FontA2x2[255]</td>
</tr>
<tr>
<td>FontA2x4</td>
<td>FontA2x4[Ext.]</td>
<td>FontA2x4[255]</td>
</tr>
<tr>
<td>FontA4x2</td>
<td>FontA4x2[Ext.]</td>
<td>FontA4x2[255]</td>
</tr>
<tr>
<td>FontA4x4</td>
<td>FontA4x4[Ext.]</td>
<td>FontA4x4[255]</td>
</tr>
<tr>
<td>FontA4x8</td>
<td>FontA4x8[Ext.]</td>
<td>FontA4x8[255]</td>
</tr>
<tr>
<td>FontA8x4</td>
<td>FontA8x4[Ext.]</td>
<td>FontA8x4[255]</td>
</tr>
<tr>
<td>FontA8x8</td>
<td>FontA8x8[Ext.]</td>
<td>FontA8x8[255]</td>
</tr>
<tr>
<td>FontB1x1</td>
<td>FontB1x1[Ext.]</td>
<td>FontB1x1[255]</td>
</tr>
<tr>
<td>FontB1x2</td>
<td>FontB1x2[Ext.]</td>
<td>FontB1x2[255]</td>
</tr>
<tr>
<td>FontB2x1</td>
<td>FontB2x1[Ext.]</td>
<td>FontB2x1[255]</td>
</tr>
<tr>
<td>FontB4x2</td>
<td>FontB4x2[Ext.]</td>
<td>FontB4x2[255]</td>
</tr>
<tr>
<td>FontB4x4</td>
<td>FontB4x4[Ext.]</td>
<td>FontB4x4[255]</td>
</tr>
<tr>
<td>FontB4x8</td>
<td>FontB4x8[Ext.]</td>
<td>FontB4x8[255]</td>
</tr>
<tr>
<td>FontB8x4</td>
<td>FontB8x4[Ext.]</td>
<td>FontB8x4[255]</td>
</tr>
<tr>
<td>FontB8x8</td>
<td>FontB8x8[Ext.]</td>
<td>FontB8x8[255]</td>
</tr>
</tbody>
</table>

Printer Fonts are defined as follows.

1) FontA1x2
- ANSI Character code support (Code Page 16: 1252)
- Character size (dot): 12 x 24 (double height)
- Sizes (point): 17

2) FontA1x2[Ext]
- IBM expansion Character code support (Code Page 0: 437)
- Character size (dot): 12 x 24 (double height)
- Sizes (point): 17

3) FontA1x2[255]
- Buyer exclusive code support (Code Page 255)
- Character size (dot): 12 x 24 (double height)
- Sizes (point): 17
6-2 Special Functions

The Windows Driver supports the special functions indicated below. These special functions are available when using the characters after the “FontControl” font is selected.

Note: This function is not an ordinary character printing function.

<table>
<thead>
<tr>
<th>Character</th>
<th>Special Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Prints HT (0 x 09)</td>
</tr>
<tr>
<td>6</td>
<td>Prints LF (0 x 0A)</td>
</tr>
<tr>
<td>7</td>
<td>Prints CR (0 x 0D)</td>
</tr>
<tr>
<td>i</td>
<td>Prints 1\textsuperscript{st} color image in double-sized mode.</td>
</tr>
<tr>
<td>j</td>
<td>Prints 2\textsuperscript{nd} color image in double-sized mode.</td>
</tr>
<tr>
<td>k</td>
<td>Prints 3\textsuperscript{rd} color image in double-sized mode.</td>
</tr>
<tr>
<td>l</td>
<td>Prints 4\textsuperscript{th} color image in double-sized mode.</td>
</tr>
<tr>
<td>m</td>
<td>Prints 5\textsuperscript{th} color image in double-sized mode.</td>
</tr>
<tr>
<td>p</td>
<td>Does not add HRI characters to the barcode</td>
</tr>
<tr>
<td>q</td>
<td>Adds HRI characters in FontA above the barcode</td>
</tr>
<tr>
<td>r</td>
<td>Adds HRI characters in FontA below the barcode</td>
</tr>
<tr>
<td>s</td>
<td>Adds HRI characters in FontB above the barcode</td>
</tr>
<tr>
<td>t</td>
<td>Adds HRI characters in FontB below the barcode</td>
</tr>
<tr>
<td>w</td>
<td>Aligns text to the left</td>
</tr>
<tr>
<td>x</td>
<td>Aligns text to the center</td>
</tr>
<tr>
<td>y</td>
<td>Aligns text to the right</td>
</tr>
<tr>
<td>R</td>
<td>Prints 1\textsuperscript{st} color image.</td>
</tr>
<tr>
<td>S</td>
<td>Prints 2\textsuperscript{nd} color image.</td>
</tr>
<tr>
<td>T</td>
<td>Prints 3\textsuperscript{rd} color image.</td>
</tr>
<tr>
<td>U</td>
<td>Prints 4\textsuperscript{th} color image.</td>
</tr>
<tr>
<td>V</td>
<td>Prints 5\textsuperscript{th} color image.</td>
</tr>
</tbody>
</table>

1) Sample Use

If the “FontControl” font is selected and 6 is entered, the “LF” (Line Feeding) operation is activated.
(does not entail the printing of the character “6”)

2) “FontControl” Font Function

<table>
<thead>
<tr>
<th>Printer Font for Special Function</th>
<th>Function</th>
<th>Size (point/dot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FontControl</td>
<td>Justification (Left/Center/Right) Output HT, Output LF, Output CR Barcode Printing Print NV Graphic Data</td>
<td>(8.5 / 12x24)</td>
</tr>
</tbody>
</table>
6-3 Barcodes

The Windows Driver supports the barcodes indicated below. This function is available when entering barcode data after selecting “Printer Font Name”. In addition, the “FontControl” font can be used to add HRI characters.

<table>
<thead>
<tr>
<th>Printer Font Name</th>
<th>Size</th>
<th>Supported Characters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Codabar</td>
<td>18/35.5/53/71</td>
<td>Numberic: 0<del>9, Symbols: $, +, -, ., /, :, Letters: A</del>D</td>
</tr>
<tr>
<td>JAN13(EAN)</td>
<td>18/35.5/53/71</td>
<td>Numberic: 0~9</td>
</tr>
<tr>
<td>JAN8(EAN)</td>
<td>18/35.5/53/71</td>
<td>Numberic: 0~9</td>
</tr>
<tr>
<td>ITF</td>
<td>18/35.5/53/71</td>
<td>Numberic: 0~9</td>
</tr>
<tr>
<td>UPC-A</td>
<td>18/35.5/53/71</td>
<td>Numberic: 0~9</td>
</tr>
<tr>
<td>UPC-E</td>
<td>18/35.5/53/71</td>
<td>Numberic: 0~9</td>
</tr>
<tr>
<td>Code93</td>
<td>18/35.5/53/71</td>
<td>ASCII CODE: 0~127</td>
</tr>
<tr>
<td>Code128</td>
<td>18/35.5/53/71</td>
<td>ASCII CODE: 0~127</td>
</tr>
</tbody>
</table>

1) Sample Use

Select “Code39” and Size “18”, and then enter “1234”. The barcode corresponding to “1234” is printed.

2) When Using Code128

Select “Code128” and Size “18”, and then enter “{B1234”. The barcode corresponding to “1234” is printed.

When using “Code128”, characters, such as “{A”, “{B”, “{C”, must be included before the input data.

6-4 Two-Dimensional Barcodes

The Windows Driver supports the following two-dimensional barcodes.

- PDF417
- QR Code

Usage is identical to that for barcodes.
7. Use of Windows Driver

7-1 Use of Visual Basic

This section explains the use of the Windows Driver with Visual Basic to control the printer (EM 220).

Sample programs are saved together if the Windows Driver is installed.

7-1-1 Windows Driver Selection

The following code is an example of the selection of the “Zebra EM 220” Windows Driver:

```
For Each prnPrinter In Printers
    If prnPrinter.DeviceName = “Zebra EM 220” Then
        Set Printer = prnPrinter
        Exit For
    End If
End For
```

7-1-2 Test Printing

The following code is an example of the printing of Arial Test via the Windows font, and FontA1x1Test via the printer font:

```vba
'Print in Windows font
Printer.FontSize = 9
Printer.FontName = "Arial"
Printer.Print "Arial Test"

'Print in printer font
Printer.FontSize = 8.5
Printer.FontName = "FontA1x1"
Printer.Print "FontA1x1Test"

Printer.EndDoc
```

7-1-3 Barcode Printing

The following code is an example of the printing of the JAN8 (EAN) barcode:

```vba
'Print Bar Code.
Printer.FontSize = 18
Printer.FontName = "JAN8 (EAN)"
Printer.Print "1234567"

Printer.EndDoc
```

7-1-4 Two-Dimensional Barcode Printing

The following code is an example of the printing of the PDF417 two-dimensional barcode:

```vba
'Print Two-dimensional Codes.
Printer.FontSize = 9.5
Printer.FontName = "PDF417"
Printer.Print "Print Test PDF417"

Printer.EndDoc
```
7-2 Use of Wordpad

7-2-1 Wordpad Environment Settings

After running Wordpad and setting the following conditions, conduct a test.

- Select Printer
  After selecting “Print” from the “File” tab, select the printer (Zebra EM 220).

- Select Paper Size, Orientation, and Margins
  After selecting “Page Settings” from the “File” tab, select the paper size, orientation, and margins.

7-2-2 Text Printing

Use the Windows Driver of the printer to run a test.

1) Select the desired font from the Font menu (FontA 1x1).

2) Select the desired font size (8.5).

3) Enter the text to be printed in Wordpad.

4) Click the Print button in the toolbar to print.
7-2-3 Barcode Printing

Use the Windows Driver of the printer to print the barcode.

1) Select the desired barcode from the Font menu (Code128).
2) Select the desired font size (18).
3) Enter "{A123435" in Wordpad.
4) Click the Print button in the toolbar to print.
7-2-4 Two-Dimensional Barcode Printing

Use the Windows Driver of the printer to print the two-dimensional barcode.

1) Select the desired two-dimensional barcode from the Font menu (PDF417).
2) Select the desired font size (8.5).
3) Enter “Two-dimensional Codes Test: PDF417” in Wordpad.
4) Click the Print button in the toolbar to print.