Setting up a bar code printer with 7.21 Intermec drivers or newer

IMPORTANT!! WHEN YOU FIRST POWER-UP YOUR INTERMEC PM4i PRINTER, YOU WILL NEED TO SELECT IPL COMMAND LANGUAGE (SEE BELOW).

To select your printer language

- Press the key that corresponds to the printer language you want to run on your PM4i.

Startup Screen: *This screen appears the first time you turn on your PM4i.*

The language you select automatically runs each time you turn on your printer.

Once your printer is running a particular printer language, you can change the printer language from the Setup menu. The way that you access the command language menu depends on which language you are currently running.

If your printer is showing a different language on the display, you can change it to IPL LANGUAGE by following the steps below:

Changing the Printer Language From the Setup Menu

Language	How to Access the Command Language Menu
IPL	• Go to **SETUP** > **TEST/SERVICE** > **CMD LANGUAGE**.
Fingerprint or Direct Protocol	• Go to **SETUP** > **PRINT DEFS** > **CMD LANGUAGE**.
ZSim or DSim	**1** Press Setup. **2** Enter the Fingerprint password: 8311. **3** Press Enter. **4** Go to **SETUP** > **PRINT DEFS** > **CMD LANGUAGE**.

For assistance with loading labels and ribbons, please visit our IMPRESS support page to view videos showing step-by-step instructions:

www.informsinc.com/healthcare/impress

0 **INSTALL PRINTER DRIVERS** – InterDriver 7.1.3 (this may require "Administrator" rights within Windows) –

PLEASE NOTE: If you have an older version of Intermec InterDriver, you will need to remove the older drivers using Intermec's "InterDriver Removal Tool". *Contact Rich Greene at Informs for assistance with this procedure – (480) 874-9874.*

a. Go to www.intermec.com – select "Support" and then "Downloads"

b. Complete the filters below and select the printer model number (i.e. PM4i), and press Submit:

c. Scroll to the BOTTOM OF THE PAGE to the "Windows Drivers" section, and select InterDriver Windows version 7.21. Click the file to begin downloading InterDriver files (click RUN to begin installaton).

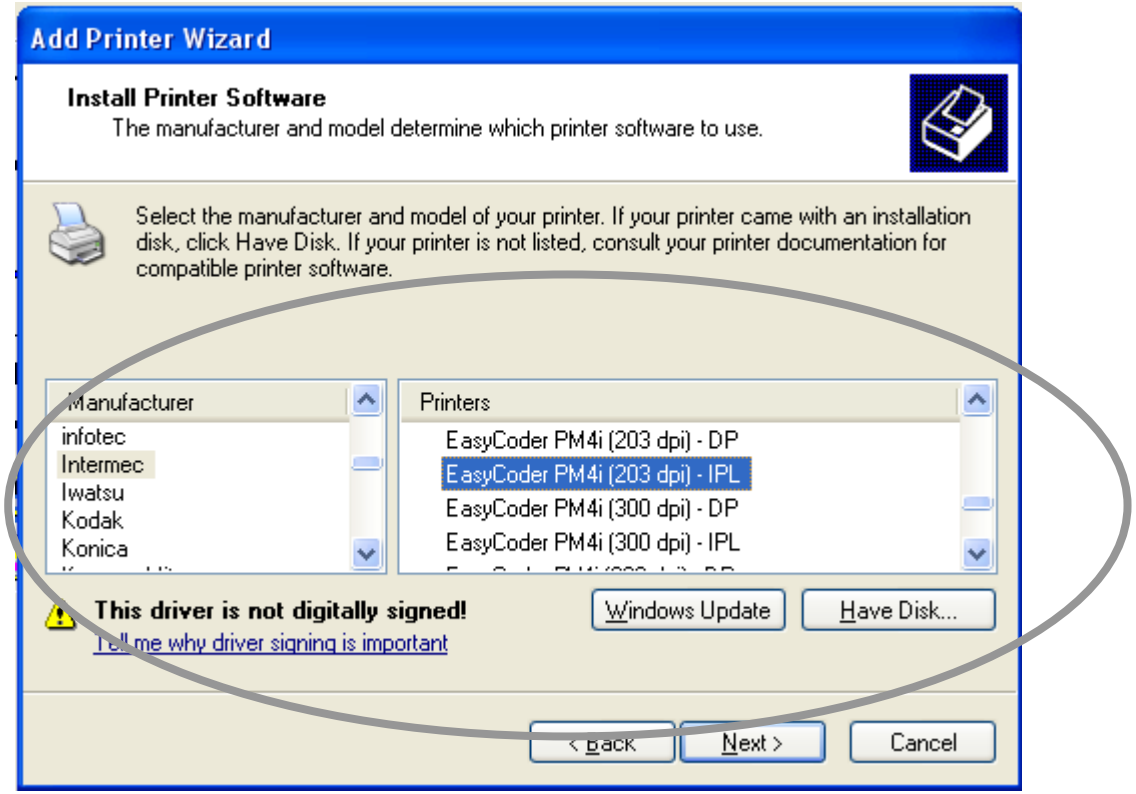
printers, version 1.2		and IPL 10.0.0 are supported.		
Avalanche package for EasyCoder PF/PM/PX-series printers, version 1.1	3.68 MB	The zip file contains Wavelink Avalanche packages to configure Intermec printers and a README file containing information on files, printer models and versions. Firmware versions up to Fingerprint 8.70.0 and IPL 2.70.0 are supported.	Tuesday, December 8, 2009	
Avalanche package for EasyCoder PF/PM/PX-series printers, version 1.0	3.59 MB	The zip file contains Wavelink Avalanche packages to configure Intermec printers and a README file containing information on files, printer models and versions. Firmware versions up to Fingerprint 8.60 and IPL 2.60 are supported.	Tuesday, December 8, 2009	

OS/Firmware/Drivers

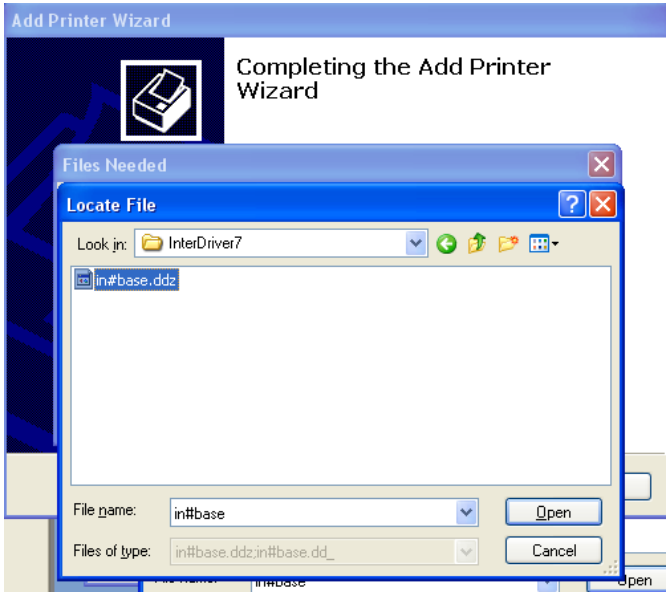
Download	Size	Notes	Date	Registration Req.
InterDriver - Windows Driver ver. 7.21	4.7M	OS Support: Windows 2000 and 32-bit and 64-bit editions of XP Professional, Server 2003, 2008, Vista and Windows 7. Supported printers: EasyCoder? 91, 101, 201, 301, 401, 501, 501XP, 601, 601XP, 3240, 3400D, 3400E, 3440, 3600, 4400, 4420, 4440, 4830, 7421, 7422, C4, E4, F2, F4, PB21, PB22, PB31, PB32, PB42, PB50, PB51, PC4, PC41, PD4, PD41, PD42, PF2i, PF4Ci, PF4i, PF8d, PF8d, PM4i, PW50, PX4i, PX6i.	Tuesday, December 7, 2010	
Multiple Firmware ver. 8.78.1 (PF/PM/PX) ver. 8.78.1	25.9M	**WARNING!!! Requires minimum 8 MB flash and 16 MB SDRAM.** Contains printer command languages: Fingerprint, IPL and simulators DSim and ZSim. Technical bulletin is available at Knowledge Central, answer **#12338**	Tuesday, June 15, 2010	
Multiple Firmware ver. 8.78.2 (PM) ver. 8.78.2	21.6M	**WARNING!!! Requires minimum 8 MB flash and 16 MB SDRAM.** Contains printer command languages: Fingerprint, IPL and simulators DSim and ZSim.	Monday, June 14, 2010	
Printer User Defined Maptable	136 kbytes	The zip file contains explanations and files showing how to make user defined single/double byte maptables.	Tuesday, December	

d. After installation is complete, you should now ADD the printer. To do this, click "START" – Control Panel – and open Printers and Faxes. Click "Add a printer" to begin the process. Follow the prompts for the desired setup, and select the model of printer that you wish to install from the list.

IMPORTANT: Be sure to select the correct model with the CORRECT RESOLUTION and CORRECT LANGUAGE. You should select "EasyCoder PM4i (203dpi) - IPL.



The wizard may prompt you to search for a missing file (with a FILES NEEDED) window. If so, click "Browse" and select the INTERMEC folder (C:\Intermec)– then the InterDriver7 folder. This should display the missing file. Click "Open" to select the correct path, and then click OK to complete the installation.



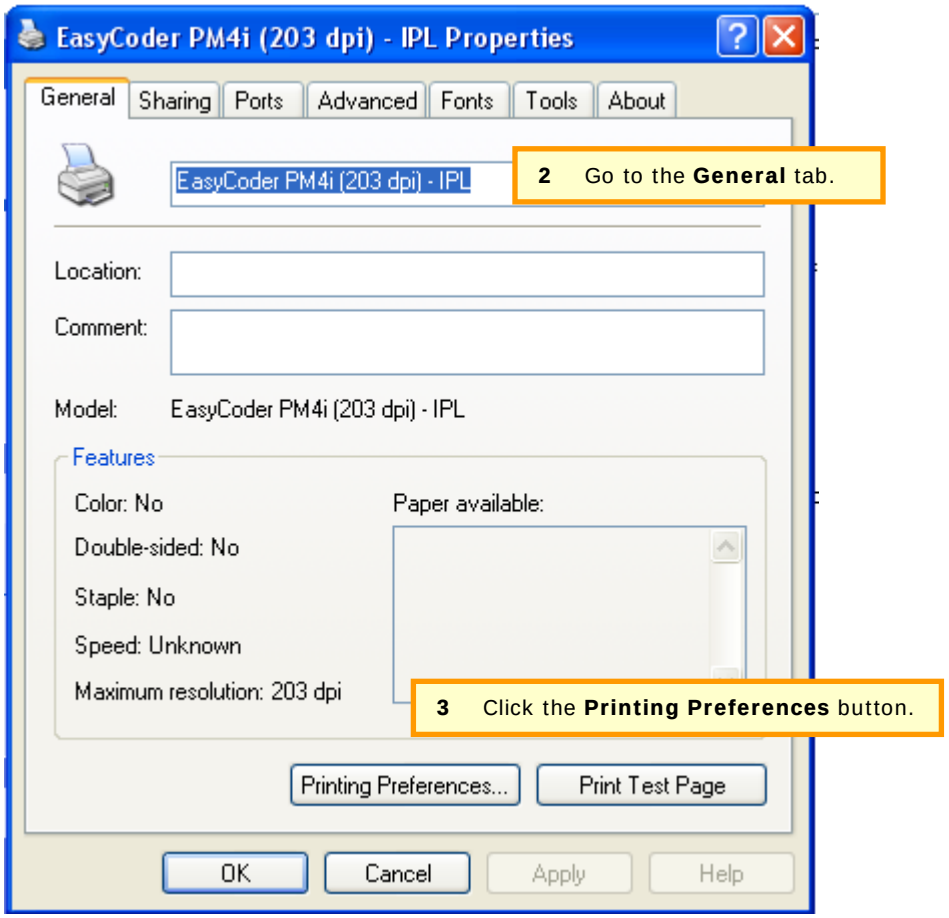
YOUR PRINTER SHOULD NOW BE DISPLAYED IN YOUR "PRINTERS AND FAXES" LIST. You are now ready to setup the Driver for IMPRESS®.

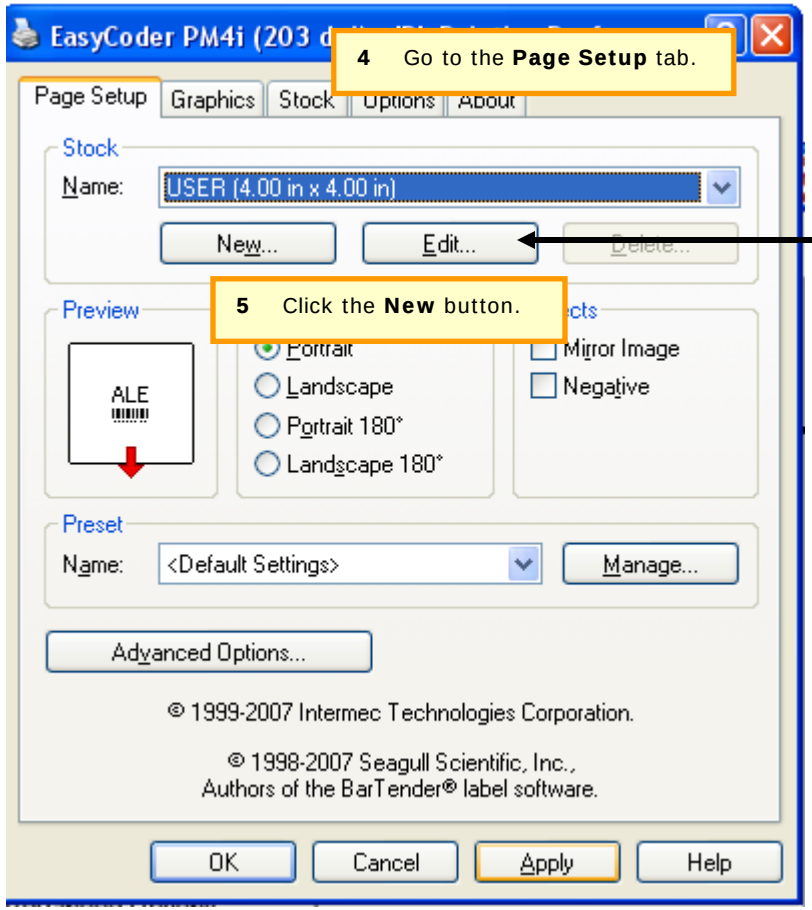
1 SET-UP PRINTER DRIVER

Open your Barcode Printer Properties window:

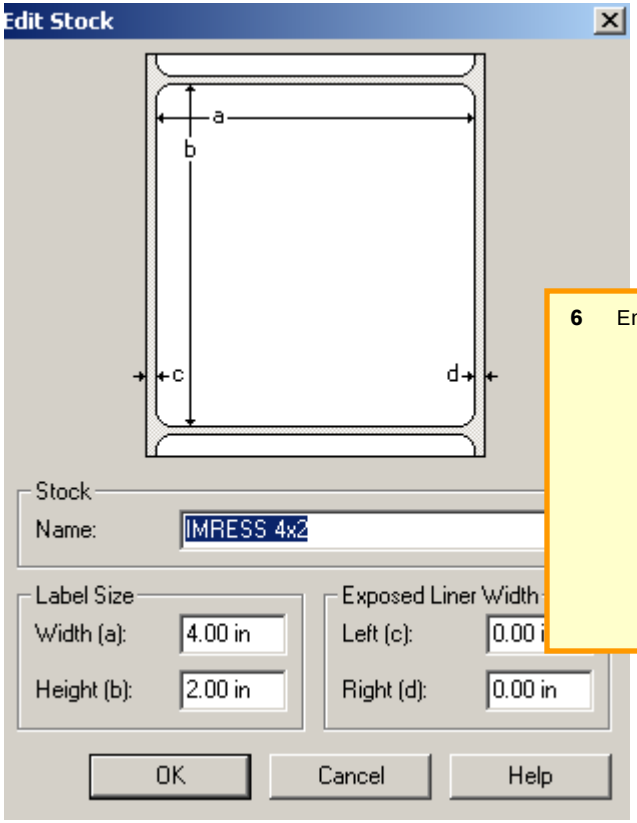
In Windows XP, click the **Start** button and select **Printers and Faxes (this may be under Control Panel)**. Right-click the barcode printer and select **Properties**.

For other operating systems, consult your network administrator or technical support.





NOTE: DO NOT EDIT an existing Label; these labels will not work with IMPRESS SCAN 3



6 Enter the following:

a. Name: IMPRESS 4x2

b. Width: 4.00 in

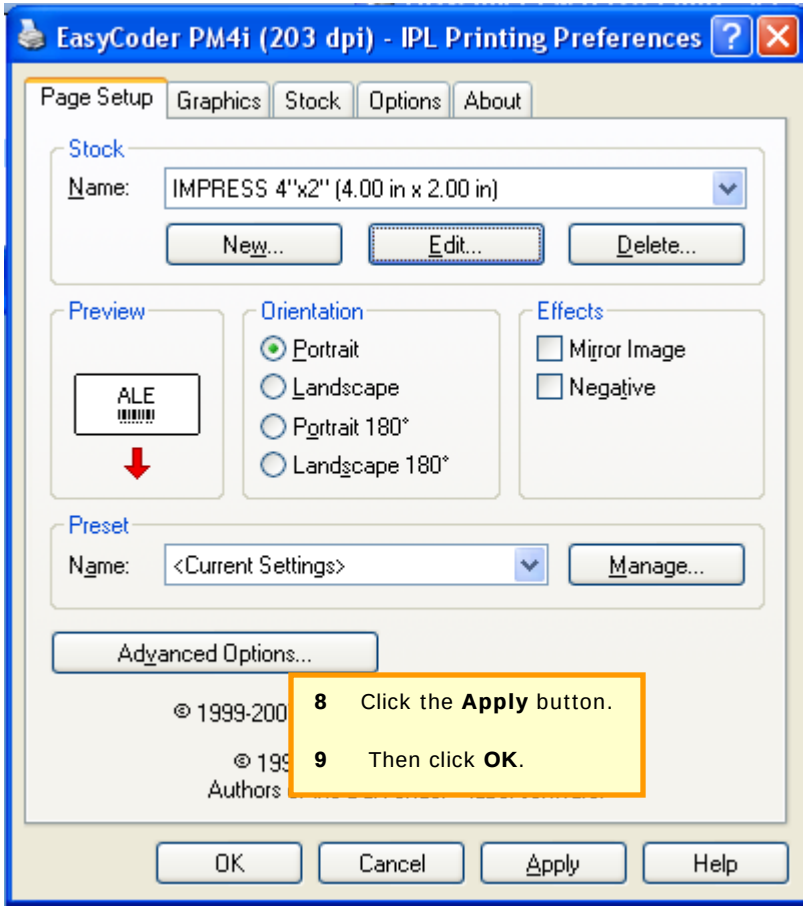
c. Height: 2.0 in

d. Left Exposed Liner 0.00in

e. Right Exposed Liner 0.00in

7 Click the **OK** button.

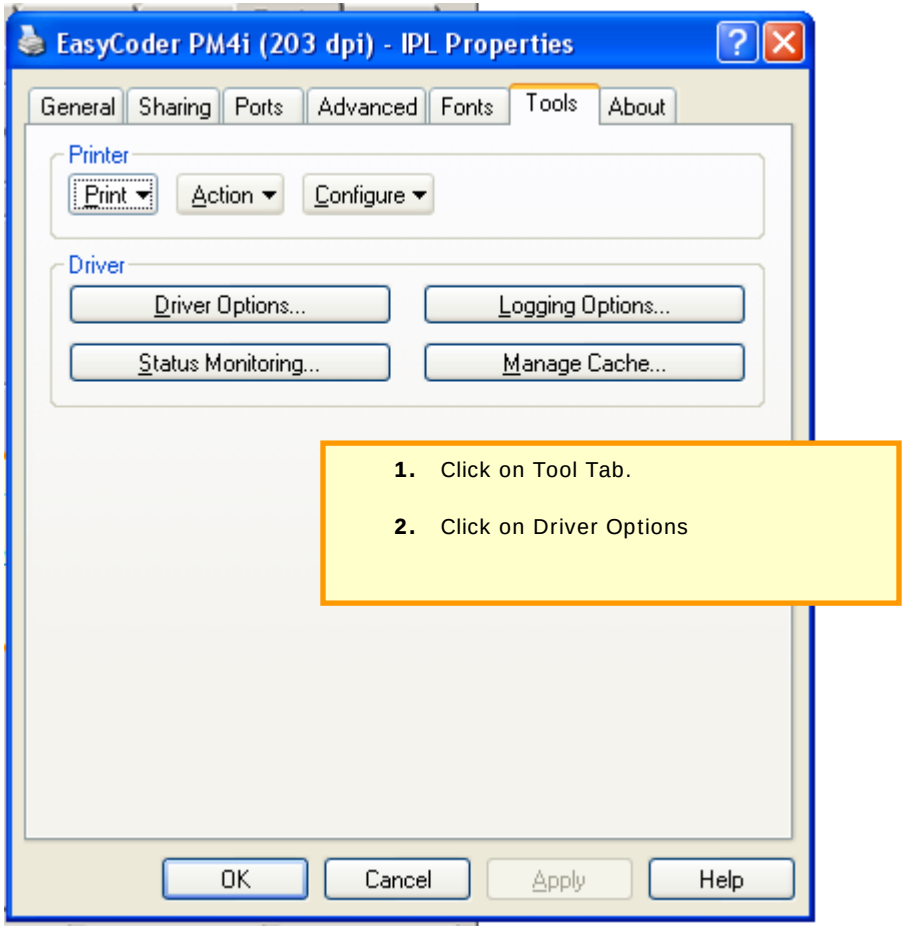
Repeat steps 5 – 7 to create new labels for IMPRESS 2x1 with width of 2, height 1; and IMPRESS 4x1, width of 4, height of 1, if applicable.


EasyCoder PM4i (203 dpi) - IPL Printing Preferences
Page Setup
Graphics
Stock
Options
About
Stock
Name:
IMPRESS 4"x2" (4.00 in x 2.00 in)
New...
Edit...
Delete...
Preview
ALE
Orientation
Portrait
Landscape
Portrait 180°
Landscape 180°
Effects
Mirror Image
Negative
Preset
Name:
<Current Settings>
Manage...
Advanced Options...
© 1999-200
© 19
Authors
8 Click the Apply button.
9 Then click OK.
OK
Cancel
Apply
Help

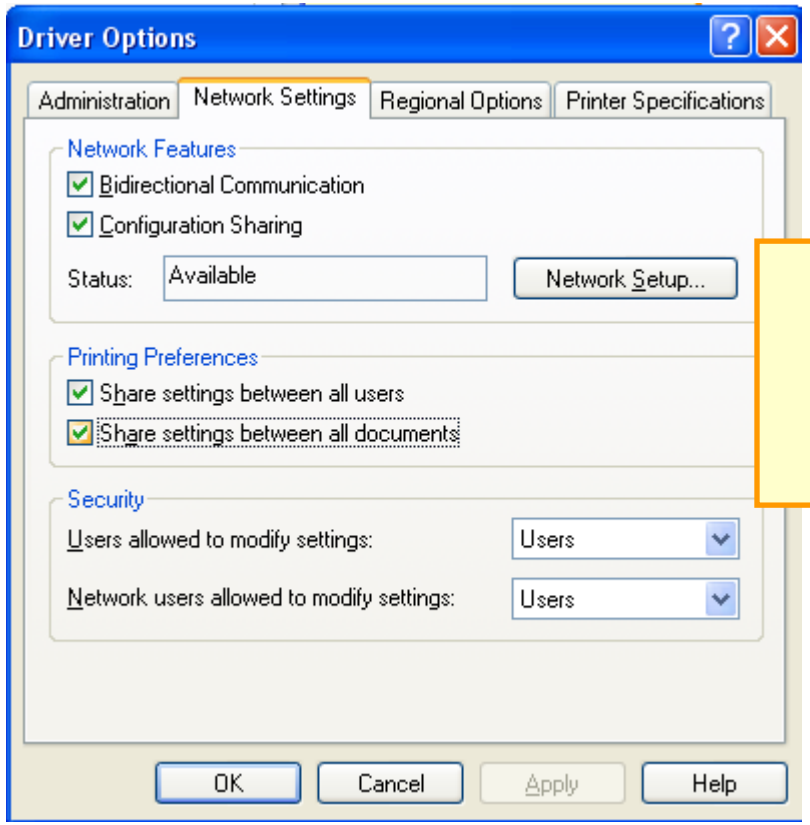
2 Open your Barcode Printer Properties window:

In Windows XP, click the **Start** button and select **Printers and Faxes**. Right-click the barcode printer and select **Properties**.

For other operating systems, consult your network administrator or technical support.

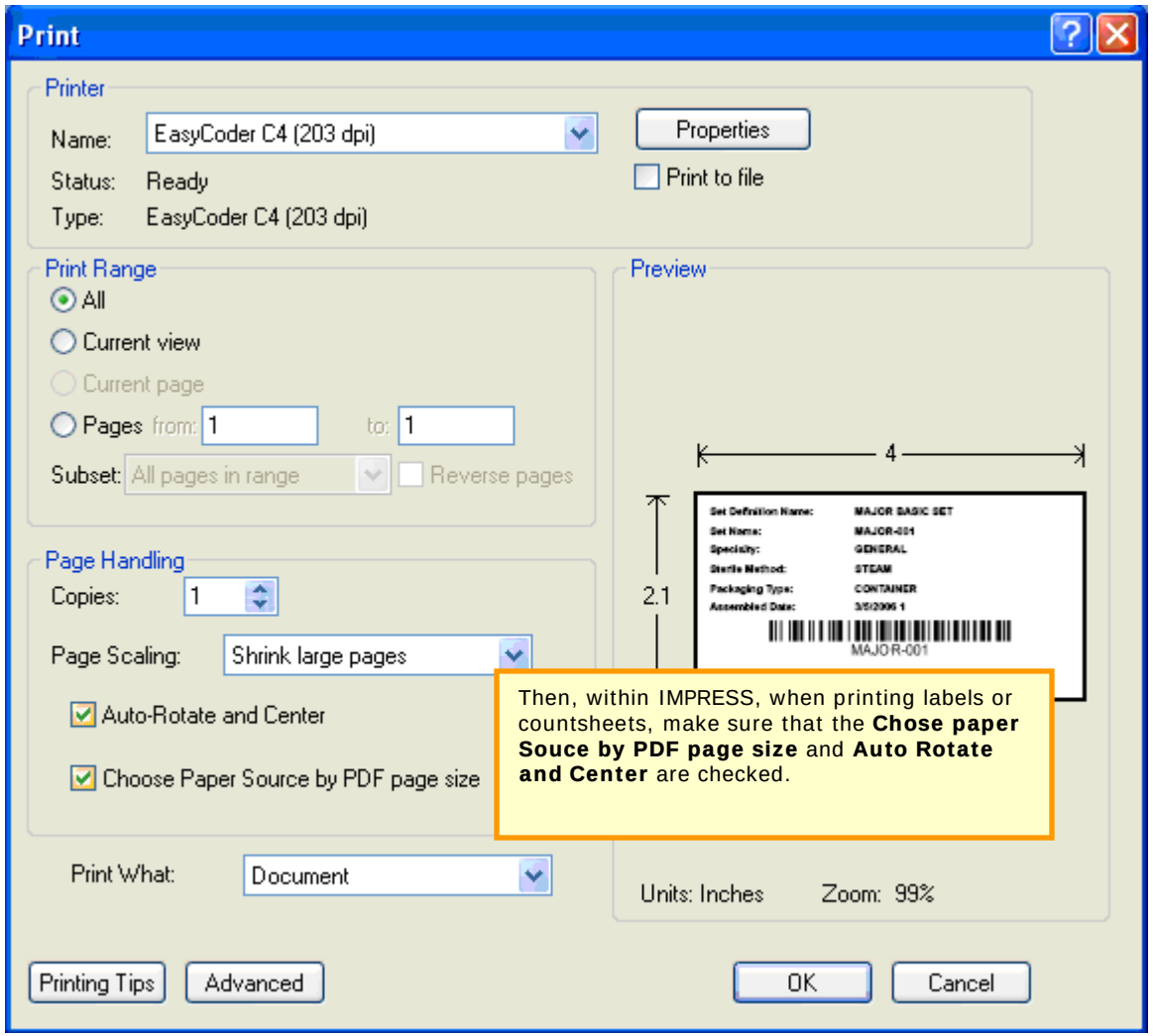


1. Click on Tool Tab.
2. Click on Driver Options



3. Click on Network Setting Tab.
4. Under Printing Preference check the following
    a. Share Setting between all Users
    b. Share Setting between all user

Under Security, the Information Service department has the option to set which user can make changes to the setting for the printer. If they opt to allow USER to make these change it will decrease the need to call them for assistance with printer issues.


Print
Printer
Name:
EasyCoder C4 (203 dpi)
Properties
Status: Ready
Type: EasyCoder C4 (203 dpi)
Print to file
Print Range
All
Current view
Current page
Pages from: 1 to: 1
Subset: All pages in range
Reverse pages
Page Handling
Copies: 1
Page Scaling: Shrink large pages
Auto-Rotate and Center
Choose Paper Source by PDF page size
Print What: Document
Preview
4
2.1
MAJOR-001
Units: Inches
Zoom: 99%
Printing Tips
Advanced
OK
Cancel
Then, within IMPRESS, when printing labels or countsheets, make sure that the **Chose paper Souce by PDF page size** and **Auto Rotate and Center** are checked.

NAVIGATING THE PM4i SETUP MENU

Understanding the Buttons

Use the buttons and button combinations to perform functions on the PM4i. If you are using Fingerprint applications, you can assign custom functions to each button or disable individual buttons. For help, see the *Intermec Fingerprint Developer's Guide*.

Understanding the Function Buttons

Button Name	Button	Description
Print		Feeds or pauses a print job. Reprints the last printed label
Pause	Pause	Pauses and resumes printing.
Pause + Shift	Pause + Shift	Stops a Fingerprint application.
Setup	Enter	Enters Setup mode.
Feed	Feed	Feeds a blank label or other media type.
Feed + Shift	Feed + Shift	Perform a Testfeed (feed a blank label and adjust the media feed).
i	i	Display error messages, Ready-to-Work status, and communication channel information.
< >	‹ or ›	After you press i, use these buttons to scroll through error and information messages.

Understanding the LEDs

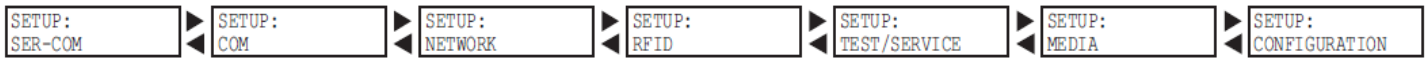
The PM4i has three LEDs: Power, Status, and the Intermec Ready-to-Work® indicator.

Understanding the LEDs

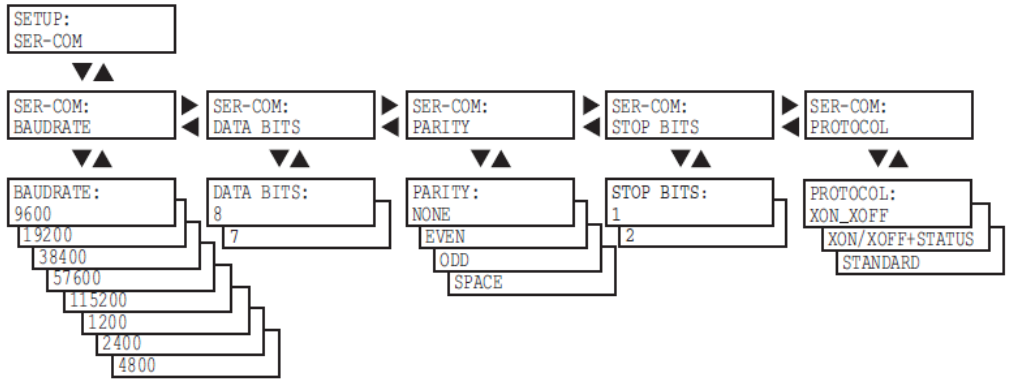
LED	State	Description
Power	Solid green	Power is on.
Status	Solid green	The printer is ready.
	Flashing green	The printer is communicating.
	Solid red	There is a printer error. For more information, see "Troubleshooting the Printer" on page 84.

The following diagrams will help you navigate the SETUP menu on the PM4i Printer. Press SETUP to enter the setup menu, and press it again at anytime to return to normal operation.

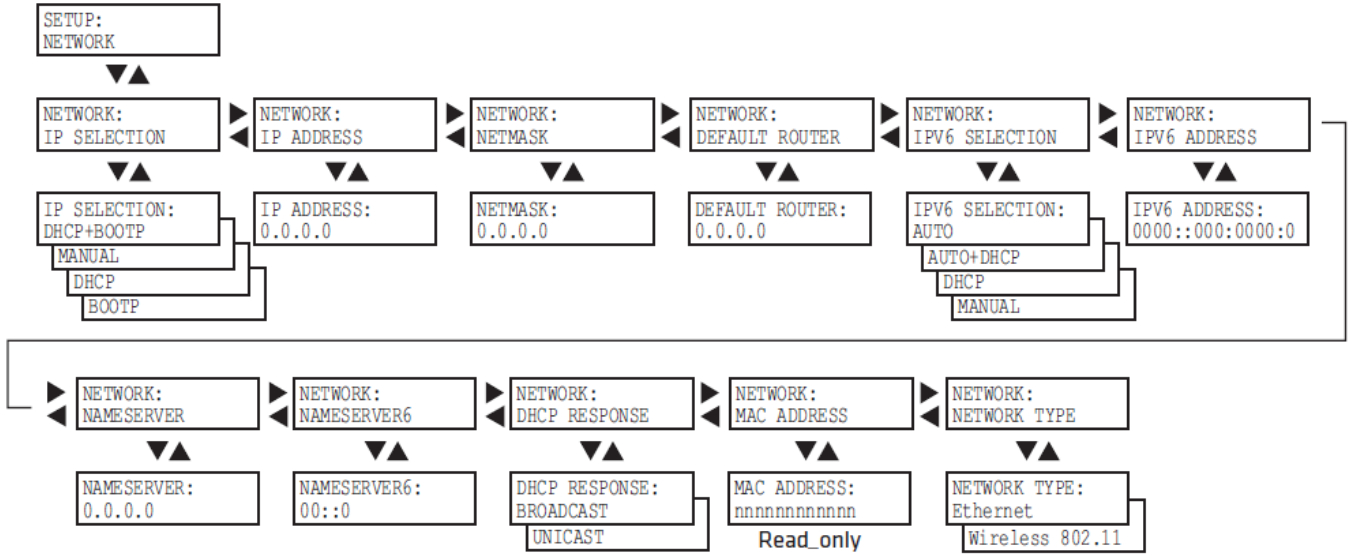
IPL Main Level Setup Menu



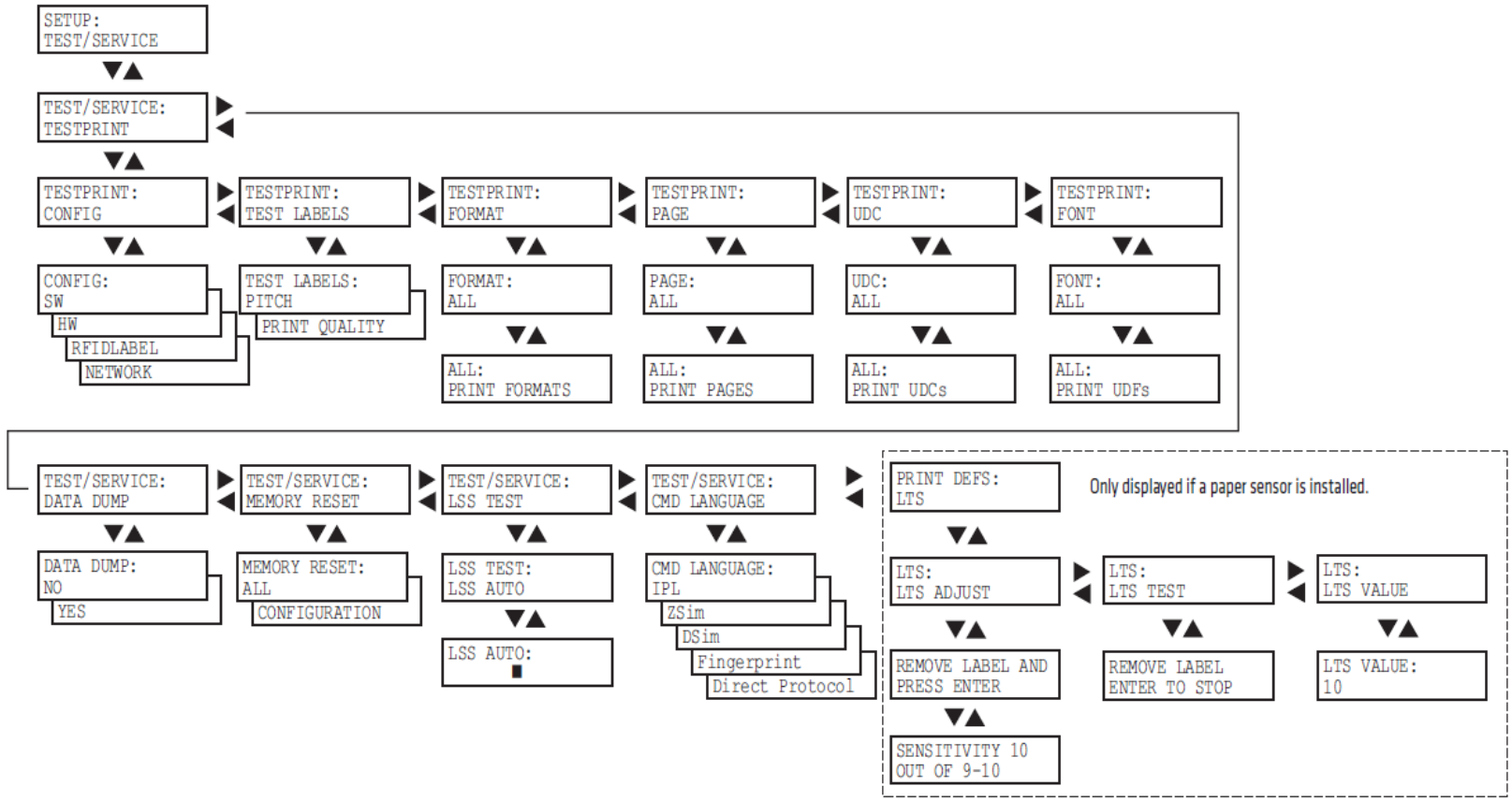
IPL Ser-Com Menu



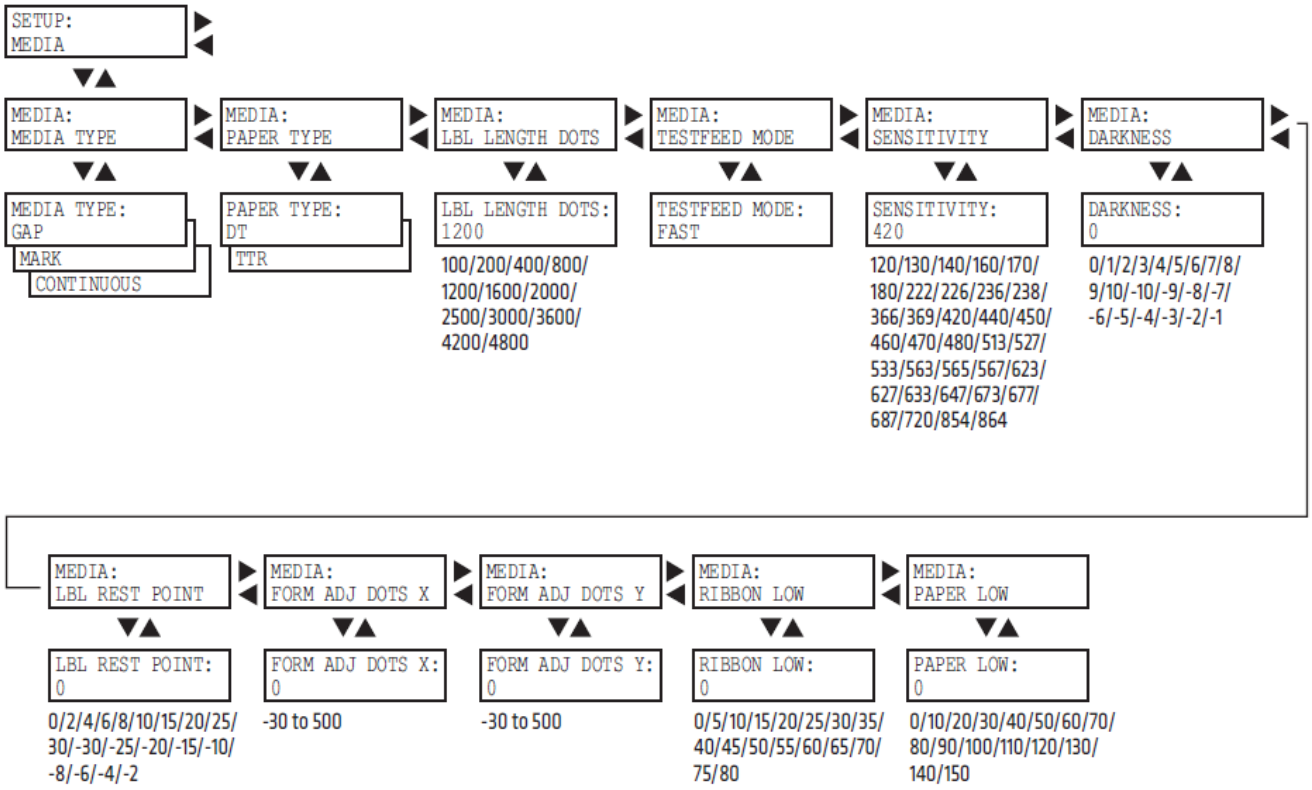
IPL Network Menu



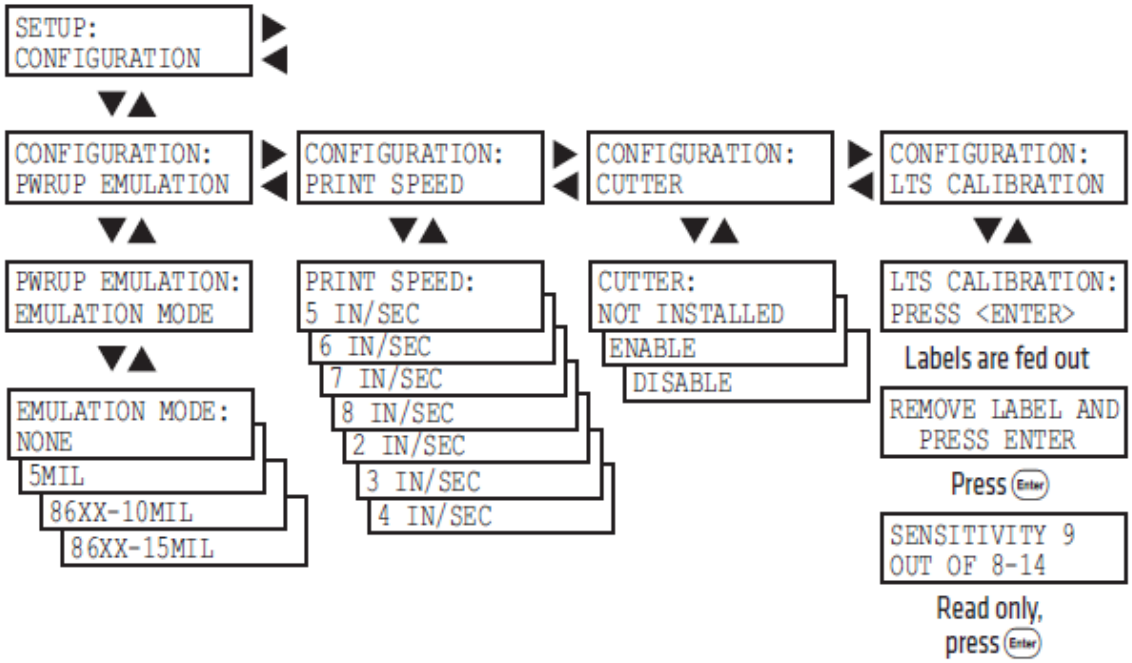
IPL Test/Service Menu



IPL Media Menu



IPL Configuration Menu



NETWORKING

The setup diagrams above will help get to the networking settings on the printer, but it is STRONGLY RECOMMENDED that you change the **IP Selection** (in the Network Menu) is set to **MANUAL**. By default, the printer is set to DHCP+BOOTP, but this may cause the IP Address to change each time the power is cycled on the printer. If the printer is configured properly for your network, the blue light on the front of the printer should be solid. If it's flashing, the printer is probably still setup for DHCP, or does not have proper IP Address information loaded.

TROUBLESHOOTING STEPS / FAQs

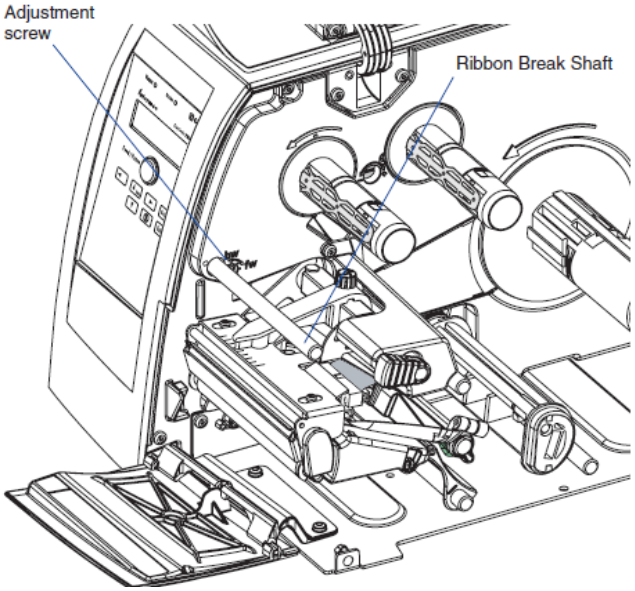
If you are having trouble with printing to the PM4i printer, follow these steps:

1) Make sure the **labels and ribbons are loaded properly**. Double check the diagram on the inside of the door. To do a test print, hit SETUP, scroll to the right to TEST/SERVICE, and hit ENTER until you get to TEST PRINT/CONFIG. Hit ENTER, and when the display says TEST PRINT/CONFIG/SW, hit ENTER and a configuration label should print. If it prints, the labels and ribbons are loaded correctly.
    a. If the ribbon feeds out with the labels (and does not rewind on the ribbon take-up spool), the printer is probably in DT (direct thermal) mode. Change the "Paper Type" to "TTR" in the Media menu.
    b. If a label prints, but is too light, check to make sure that the "Sensitivity" (in the Media menu) is set to 366. If not, scroll left or right in the "Sensitivity" setting until it shows that value. Then print another test label. Keep in mind that you need to use the IMPRESS labels and ribbons from Informs, and not any other labels that may have come with the printer (i.e. 4"x4" DT labels).
2) Once you know the printer can print labels, you need to ensure **that the printer is properly connected to the PC** (either via the Network or USB/Serial cable. To test this, open the Windows Printer Driver on the PC (Start – Control Panel – Printers & Faxes – right-click the PM4i printer). On the General tab, click "Print Test Page". A label should print. If it does not, there is an incorrect setting, either in the Windows Driver on the Ports Tab, or in the printer itself. If you're printing via the network (Ethernet), you need to make sure that the "Port" selected is a "Standard TCP/IP Port", and make sure that the IP Address matches the IP Address set in printer (under the Network menu). ***IP Addresses are normally assigned by the IT Department, and any IP Address or Networking issues should involve the Hospital's IT Department.***
3) Once the printer can print quality labels, and is connected to all PCs, you are ready to print using IMPRESS. A few other common issues you may run across once up and running with the PM4i are:
    a. **"Paper Out" error** when you know a full roll and ribbon are loaded. This often happens when the ribbon has been fed incorrectly, and is fed through the plastic (smoke-colored) label guide. The labels go through this guide, but the ribbon should above it.
    b. **Flashing blue light**, and the label jobs won't print. This usually means that the IP Address is incorrect, usually because the "IP Selection" is set to DHCP and not Manual (it should be set to Manual).
    c. **Uneven print quality** from one side of the label to the other. The metal arm (magnetic) that holds the printhead in place can be moved from side to side. It should be in the center of the labels that you are printing (i.e. at the 2" point for 4" wide labels, or the 1" point for 2" wide labels). If the print is uneven, move the position of the arm slightly to apply more pressure toward the "

4) Print is too big – the standard label seems to print on multiple labels like it is “blown up”. This is normally caused by using the incorrect Printer Driver. The standard PM4i for IMPRESS should be a 203dpi (dots per inch) machine, so you need to use the 203dpi driver. If you loaded the 300dpi driver (see instructions above), the result will be an image that seems to be 50% too big. Delete that driver and follow the “add a printer” procedure to load the correct 203dpi (IPL) driver.
5) Ribbon Wrinkle – If you experience jagged voids in your label, they are likely caused by wrinkles in the ribbon. If this is happening, or if you notice that the ribbon take-up is not rewinding straight, you may need to adjust the “ribbon break shaft” in the front of the printer:

Ribbon Break Shaft

If ribbon wrinkling occurs, you may need to adjust the alignment of the front ribbon break shaft so that it runs parallel to the printhead and the ribbon supply and rewind hubs. The adjustment is done using a straight-slot screw that is located immediately behind the front ribbon break shaft.

- If the ribbon tends to slide outwards, turn the screw carefully clockwise (fw) to move the outer end of the break shaft forward.
- If the ribbon tends to slide inwards, turn the screw carefully counterclockwise (bw) to move the outer end of the break shaft backward.

Caution **Before readjusting the break shaft, make sure that there is no other cause for the wrinkling of the ribbon. (See Chapter 9, “Troubleshooting.”)**