

Wasp

BARCODE TECHNOLOGIES

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Printer driver and calibration steps for most Wasp Printers

Internal User - 2023-10-26 - in Manuals and Driver

Windows print driver for WPL Label Printers (see below for full list of models). This driver is compatible with 32-bit and 64-bit versions of Windows 11, 10, 8, 7, Vista, XP, and Windows Server 2003, 2008, 2012, 2016. 2019

Click on the link below or copy the link to your web browser:

<https://dl.waspbarcode.com/kb/printer/WaspPrintDriver2023.3.exe>

NOTE: If this is a new computer and you have McAfee Live Safe installed, pause real time scan for at least 15 minutes to install the printer as McAfee will block the installation process.

Installing the printer

1. Turn on the printer, wait for the status light to display green, then plug its USB cable into the PC. After Windows installs its USB Printing Support driver (seen in Devices and Printers under Unspecified), the printer is ready for driver installation.
2. Run the downloaded file, which extracts the drivers and runs the DriverWizard. You will see references to Seagull Scientific, Inc., which is normal. Follow the prompts to upgrade an older driver, or install a new driver.
3. If there is an older version of the driver installed, the DriverWizard can upgrade in place. Reboot the PC if prompted. After you log back in, it may prompt to reboot again; please do so. When you log in again, it should confirm removal of the old driver(s).

Calibrating the printer

After installing your printer it will need to be calibrated to the size of the labels. Follow the steps below to calibrate:

1. Download the Diag Tool from the link below then unzip the file:
https://dl.waspbarcode.com/kb/printer/DiagTool_v1.63.zip
2. Once you have unzipped the file, run the Diag Tool.

3. Click on the Get button in the bottom right corner. Don't worry about the information that populates the boxes. If you are calibrating a network printer, change the interface box to

Ethernet

Diagnostic Tool 1.63

Language: English Unit: ☒ inch ☐ mm Interface: ETHERNET Setup

Printer Configuration | File Manager | Bitmap Font Manager | Command Tool

Printer Function

- Calibrate Sensor
- Ethernet Setup
- RTC Setup
- Factory Default
- Reset Printer
- Print Test Page
- Configuration Page
- Dump Text
- Ignore AUTO.BAS
- Exit Line Mode
- Password Setup

Printer Status

Get Status

Printer Configuration

Printer Information

Version: Cutting Counter: 0 0

Serial No: Mileage: Km

Check Sum:

Common Z D RS-232 Wireless

Speed Ribbon

Density Ribbon Sensor

Paper Width inch Ribbon Encoder Err.

Paper Height inch Code Page

Media Sensor Country Code

Gap inch Head-up Sensor

Gap Offset inch Reprint After Error

Post-Print Action Maximum Length inch

Cut Piece Gap Inten.

Reference Bline Inten.

Direction Continuous Inten.

Offset Threshold Detection

Shift X

Shift Y

Clear Load Save Set Get

LPT1 COM1 9600,N,8,1 RTS 2/24/2023 7:31:22 AM

3a (Network) Click on Setup, you should see your printer listed. If not, click on Discover Device, if it's listed click on it to highlight, then exit.

TCP/IP Setup

Printer Name	MAC	IP Address	Model Name	Status
PS-80367F			WPL308	Ready
PS-313E8E			WPL304	Ready

IP Setting

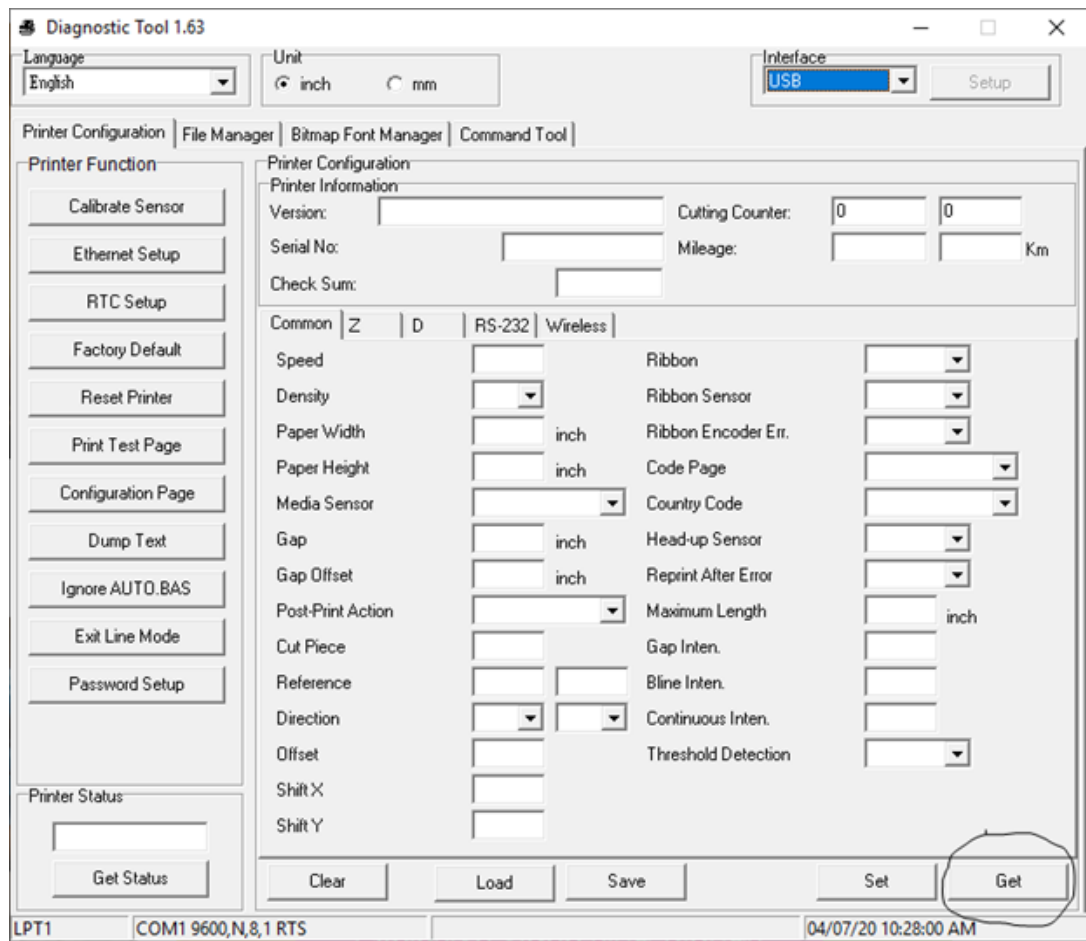
IP Address/Printer Name

10.189.30.245

Port

9100

Discover Device Change IP Address Factory Default Web Setup Exit



- Click on the Calibrate Sensor button on the left.

Diagnostic Tool 1.63

Language: English Unit: inch mm Interface: USB Setup

Printer Configuration | File Manager | Bitmap Font Manager | Command Tool

Printer Function

Calibrate Sensor

Ethernet Setup

RTC Setup

Factory Default

Reset Printer

Print Test Page

Configuration Page

Dump Text

Ignore AUTO.BAS

Exit Line Mode

Password Setup

Printer Status

Get Status

Printer Configuration

Printer Information

Version: WPL-305E Version: 7.08 EZ TCF Cutting Counter: 0 0

Serial No: T4515461001 Mileage: 0.0550 0.0550 Km

Check Sum: 080B2D74

Common | **Z** | **D** | **RS-232** | **Wireless**

Speed: 5 Ribbon: ON

Density: 8 Ribbon Sensor: ON

Paper Width: 4.00 inch Ribbon Encoder Err.: ON

Paper Height: 4.00 inch Code Page: 850

Media Sensor: GAP Country Code: 001

Gap: 0.12 inch Head-up Sensor: ON

Gap Offset: 0.00 inch Reprint After Error: ON

Post-Print Action: TEAR Maximum Length: 10.00 inch

Cut Piece: Gap Inten.: 4

Reference: 0 0 Bline Inten.: 8

Direction: 0 0 Continuous Inten.: 4

Offset: 0 Threshold Detection: AUTO

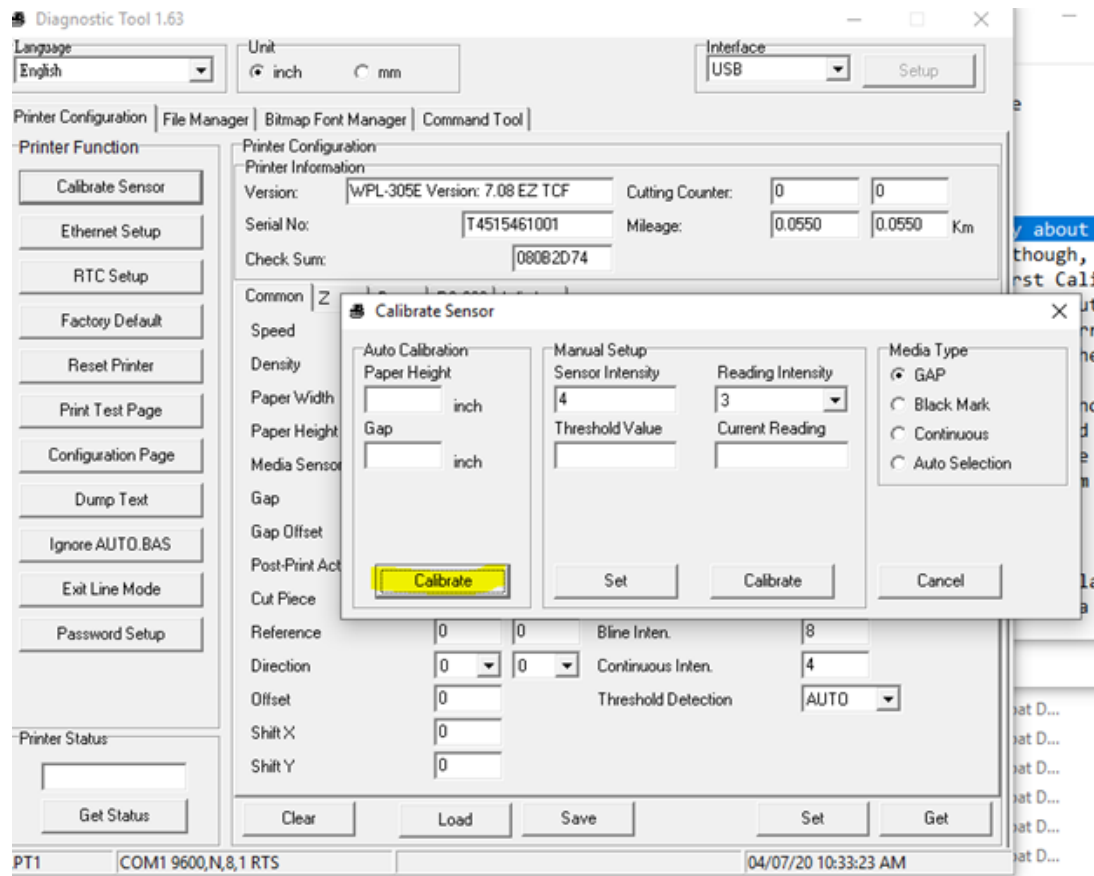
Shift X: 0

Shift Y: 0

Clear Load Save Set Get

LPT1 COM1 9600,N,8,1 RTS 04/07/20 10:32:51 AM

5. Click on the first Calibrate button at the bottom left:



6. It should feed out 2 to 3 labels. Click on Get again. This time Look at Paper Width. By default it will be 4.00. Change this to match your label size.

Diagnostic Tool 1.63

Language: English

Unit: ☒ inch ☐ mm

Interface: USB

Printer Configuration | File Manager | Bitmap Font Manager | Command Tool

Printer Function

Calibrate Sensor

Ethernet Setup

RTC Setup

Factory Default

Reset Printer

Print Test Page

Configuration Page

Dump Text

Ignore AUTO.BAS

Exit Line Mode

Password Setup

Printer Status

Printer Configuration

Printer Information

Version: WPL-305E Version: 7.08 EZ TCF Cutting Counter: 0 0

Serial No: T4515461001 Mileage: 0.0550 0.0550 Km

Check Sum: 080B2D74

Common | Z | D | RS-232 | Wireless

Speed: 5

Density: 8

Paper Width: 4.00 inch

Paper Height: 0.99 inch

Media Sensor: GAP

Gap: 0.12 inch

Gap Offset: 0.00 inch

Post-Print Action: TEAR

Cut Piece:

Reference: 0 0

Direction: 0 0

Offset: 0

Shift X: 0

Shift Y: 0

Ribbon: ON

Ribbon Sensor: ON

Ribbon Encoder Err.: ON

Code Page: 850

Country Code: 001

Head-up Sensor: ON

Reprint After Error: ON

Maximum Length: 10.00 inch

Gap Inten.: 15

Blind Inten.: 8

Continuous Inten.: 4

Threshold Detection: AUTO

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7. Change this to match your label

Diagnostic Tool 1.63

Language: English Unit: inch mm Interface: USB Setup

Printer Configuration | File Manager | Bitmap Font Manager | Command Tool

Printer Function

- Calibrate Sensor
- Ethernet Setup
- RTC Setup
- Factory Default
- Reset Printer
- Print Test Page
- Configuration Page
- Dump Text
- Ignore AUTO.BAS
- Exit Line Mode
- Password Setup

Printer Configuration

Printer Information

Version: WPL-305E Version: 7.08 EZ TCF Cutting Counter: 0 0
 Serial No: T4515461001 Mileage: 0.0550 0.0550 Km
 Check Sum: 080B2D74

Common | Z | D | RS-232 | Wireless

Speed	5	Ribbon	ON
Density	8	Ribbon Sensor	ON
Paper Width	2.00 inch	Ribbon Encoder Err.	ON
Paper Height	0.99 inch	Code Page	850
Media Sensor	GAP	Country Code	001
Gap	0.12 inch	Head-up Sensor	ON
Gap Offset	0.00 inch	Reprint After Error	ON
Post-Print Action	TEAR	Maximum Length	10.00 inch
Cut Piece		Gap Inten.	15
Reference	0 0	Blind Inten.	8
Direction	0 0	Continuous Inten.	4
Offset	0	Threshold Detection	AUTO
Shift X	0		
Shift Y	0		

Printer Status

Get Status

Clear Load Save Set Get

LPT1 COM1 9600,N,8,1 RTS 04/07/20 10:36:21 AM

8. Click on Set in the bottom right.

Diagnostic Tool 1.63

Language: English Unit: inch mm Interface: USB Setup

Printer Configuration | File Manager | Bitmap Font Manager | Command Tool

Printer Function

Calibrate Sensor

Ethernet Setup

RTC Setup

Factory Default

Reset Printer

Print Test Page

Configuration Page

Dump Text

Ignore AUTO.BAS

Exit Line Mode

Password Setup

Printer Status

Get Status

Printer Configuration

Printer Information

Version: WPL-305E Version: 7.08 EZ TCF Cutting Counter: 0 0

Serial No: T4515461001 Mileage: 0.0550 0.0550 Km

Check Sum: 080B2D74

Common | **Z** | **D** | **RS-232** | **Wireless**

Speed: 5 Ribbon: ON

Density: 8 Ribbon Sensor: ON

Paper Width: 2.00 inch Ribbon Encoder Err.: ON

Paper Height: 0.99 inch Code Page: 850

Media Sensor: GAP Country Code: 001

Gap: 0.12 inch Head-up Sensor: ON

Gap Offset: 0.00 inch Reprint After Error: ON

Post-Print Action: TEAR Maximum Length: 10.00 inch

Cut Piece: Gap Inten.: 15

Reference: 0 0 Bline Inten.: 8

Direction: 0 0 Continuous Inten.: 4

Offset: 0 Threshold Detection: AUTO

Shift X: 0

Shift Y: 0

Clear Load Save Set Get

LPT1 COM1 9600,N,8,1 RTS 04/07/20 10:36:21 AM

9. Click on Print Test Page on the left. It should print correctly on only a single label.

Diagnostic Tool 1.63

Language: English Unit: inch mm Interface: USB Setup

Printer Configuration | File Manager | Bitmap Font Manager | Command Tool

Printer Function

Calibrate Sensor
Ethernet Setup
RTC Setup
Factory Default
Reset Printer
Print Test Page
Configuration Page
Dump Text
Ignore AUTO.BAS
Exit Line Mode
Password Setup

Printer Configuration

Printer Information

Version: WPL-305E Version: 7.08 EZ TCF Cutting Counter: 0 0
 Serial No: T4515461001 Mileage: 0.0550 0.0550 Km
 Check Sum: 080B2D74

Common | Z | D | RS-232 | Wireless

Speed: 5 Ribbon: ON
 Density: 8 Ribbon Sensor: ON
 Paper Width: 2.00 inch Ribbon Encoder Err.: ON
 Paper Height: 0.99 inch Code Page: 850
 Media Sensor: GAP Country Code: 001
 Gap: 0.12 inch Head-up Sensor: ON
 Gap Offset: 0.00 inch Reprint After Error: ON
 Post-Print Action: TEAR Maximum Length: 10.00 inch
 Cut Piece: Gap Inten.: 15
 Reference: 0 0 Bline Inten.: 8
 Direction: 0 0 Continuous Inten.: 4
 Offset: 0 Threshold Detection: AUTO
 Shift X: 0
 Shift Y: 0

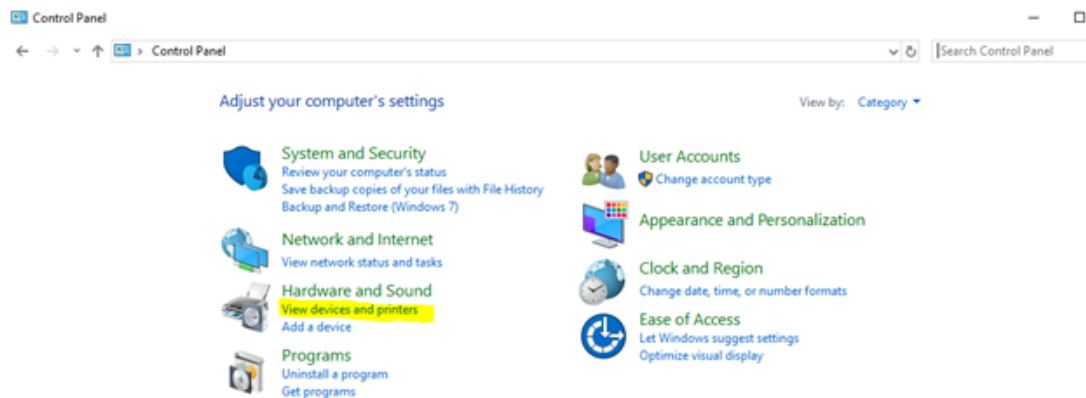
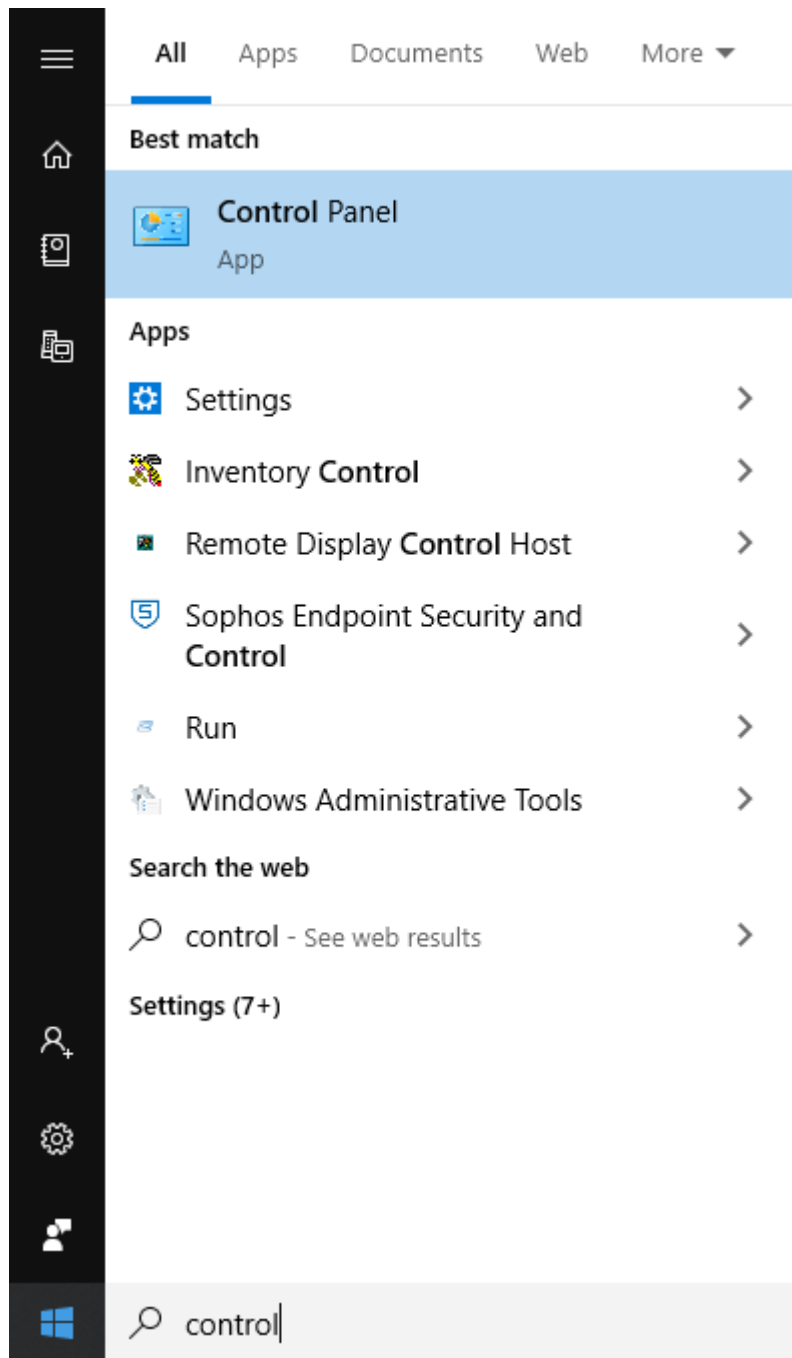
Clear Load Save Set Get

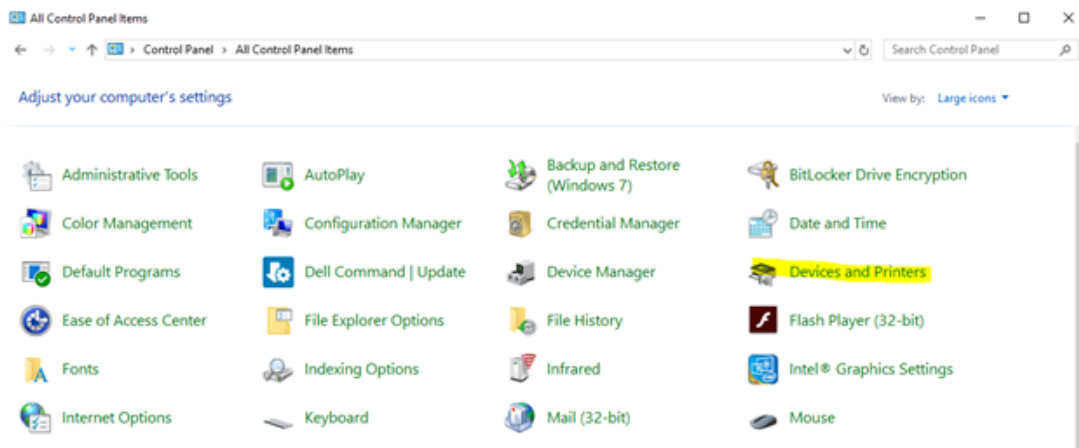
LPT1 COM1 9600,N,8,1 RTS 04/07/20 10:36:21 AM

Changing driver settings

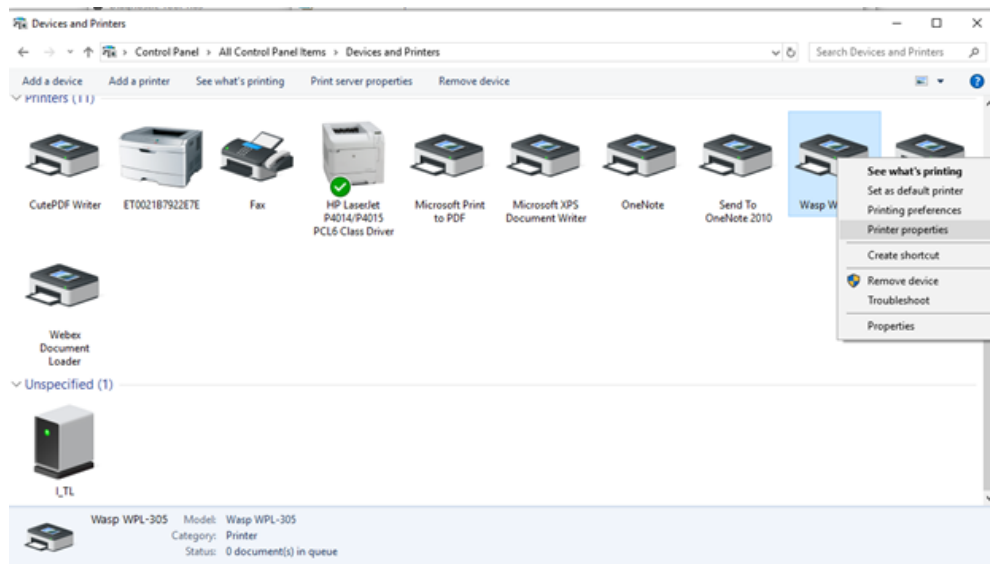
Once it has been calibrated you will need to set your driver size.

1. Open the Control Panel on your computer. (Do not use Windows Settings as this does not allow you to change the printer's default settings.)

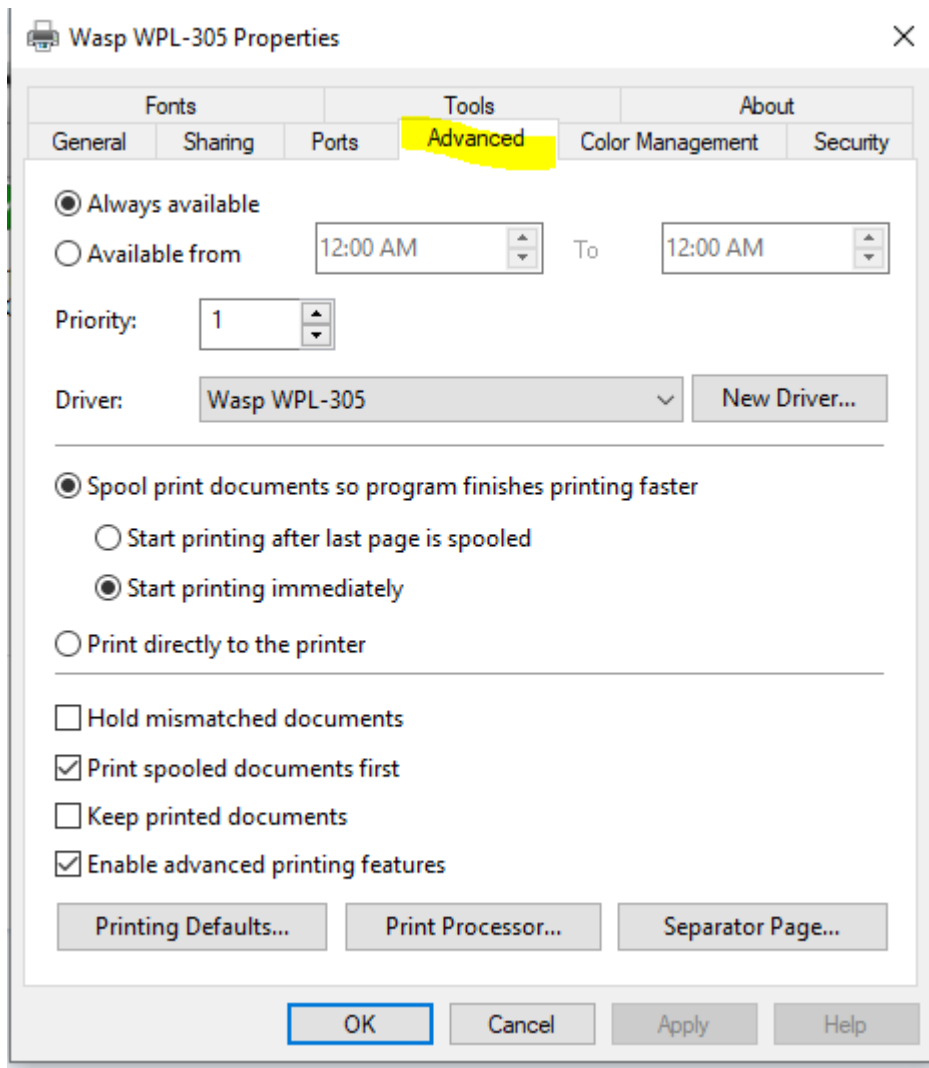




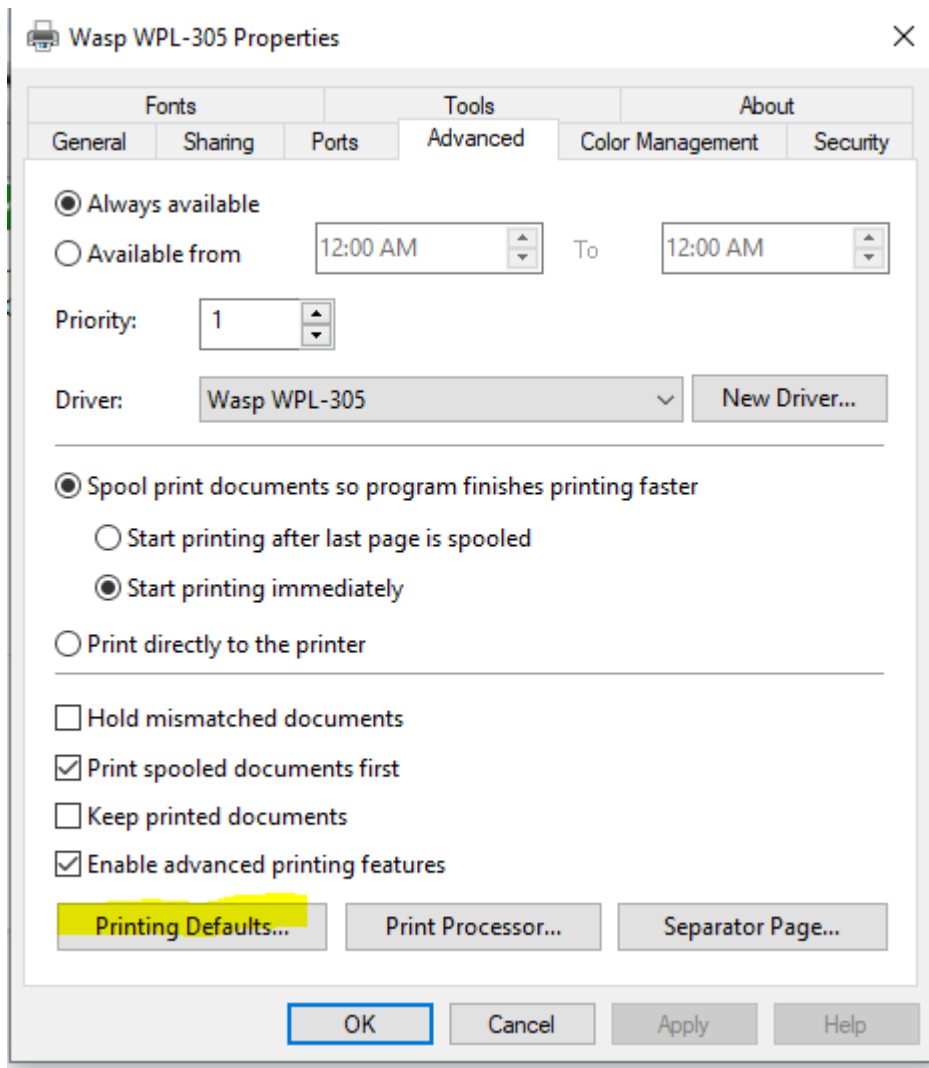
2. Find your printer and right click on the printer and choose Printer Properties (4th on the list)



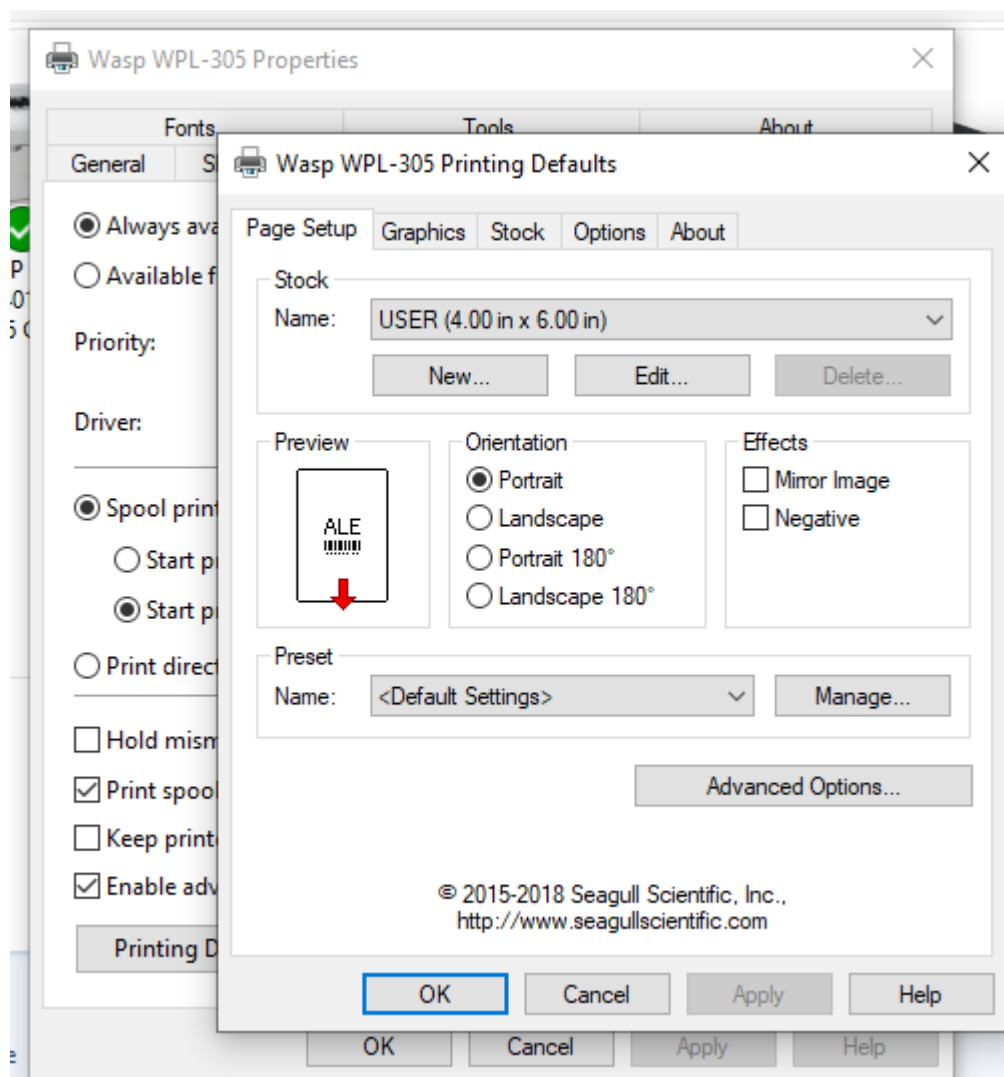
3. Click on the Advanced tab at the top of the screen

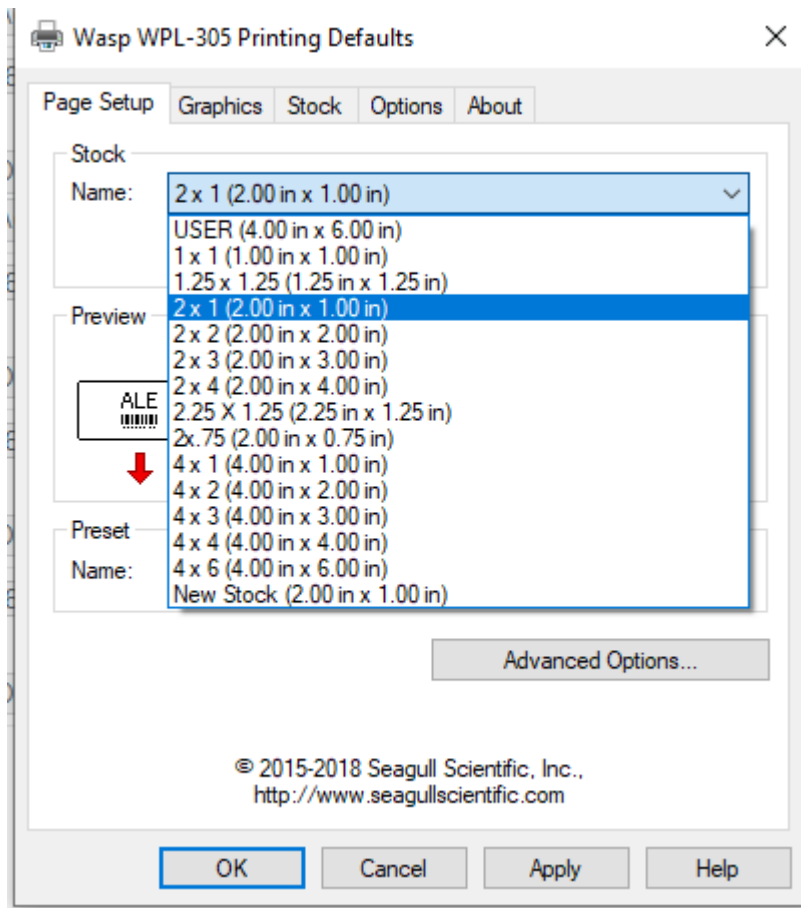


4. Click on Printing Defaults at the bottom of the screen



5. The first tab is Page Setup. Stock, the default is 4" x 6" click on the drop down box to change your label size.





6. Once you have selected your label size click Apply, then OK. Click on the General tab and then click on Preferences.

Wasp WPL-305 Properties

General | Fonts | Tools | About

Sharing | Ports | Advanced | Color Management | Security

Wasp WPL-305

Location:

Comment:

Model: Wasp WPL-305

Features

Color: No

Double-sided: No

Staple: No

Speed: Unknown

Maximum resolution: 203 dpi

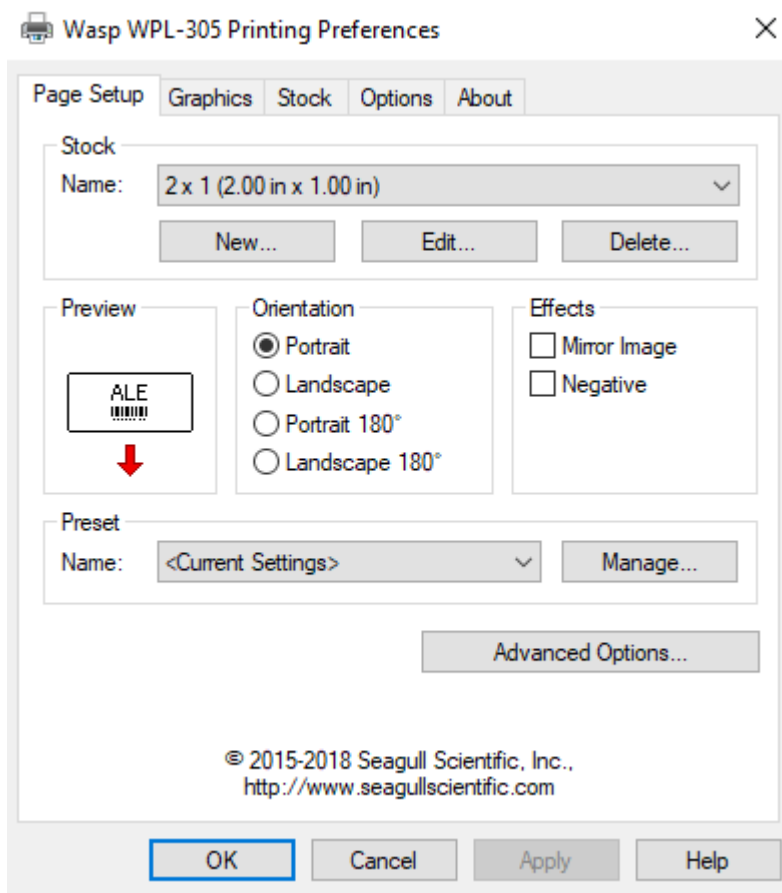
Paper available:

Preferences...

Print Test Page

OK Cancel Apply Help

7. Make sure your label size is correct



If it's not correct, change it to the correct size and click Apply then OK. Once you click OK it will take you back to the General tab. Click on Print Test Page. It should print one label.

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Below is the full list of printers supported by this driver (sorted by number). All entries are for the standard 203 DPI print head, unless otherwise specified.

WPL4MB

WPL4ML

WHC25

WPL25

WPL-204

WPL-205

WPL206M, WPL206U

WPL-303

WPL304

WPL-305 (includes WPL305E)

WPL308

WPL308-300 (300 DPI print head)

WPL308-600 (600 DPI print head)

WPL406

WPL408

WPL-604

WPL-606

WPL-608

WPL-608-300 (300 DPI print head)

WPL-610

WPL-610-300 (300 DPI print head)

WPL612

WPL612-300 (300 DPI print head)

WPL612-600 (600 DPI print head)

WPL614

WPL614-300 (300 DPI print head)

WPL614-600 (600 DPI print head)

WPL614M

WPL618

WPL618-300 (300 DPI print head)

WPL618-600 (600 DPI print head)

WPL-644 (600 DPI print head for WPL608, WPL610, WPL612)

Related Pages

- [Printer User Manuals, Programming Reference Guides, Quick Reference Guides, Quick Start Guides \(multiple models\)](#)
- [WPL308M Printer Resources](#)
- [Wasp WPL Label Printer Installation & Troubleshooting](#)
- [Wasp label printer is not displayed in Devices and Printers \(Windows 10 and Windows 8\). I can print to it, but the label size is incorrect.](#)
- [WPL Print Driver Removal via Registry. Driver Wizard says it completed, but the "completed successfully" list is empty and no printer is actually installed.](#)
- [WPL612 600dpi Printer Driver](#)

- [WPL Label Printer: Installing driver to a network printer](#)
- [WPL612 WPL610 WPL608 Printer Resources](#)
- [WPL305 Printer Resources](#)
- [Printer Programming Manuals: WPL, ZPL, EPL](#)
- [W600 and W300 driver DT/TT](#)
- [Do Wasp's WPL printers support ZPL or EPL commands?](#)