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Argox OS-214 PRO

A impressora de transferência térmica Argox OS-214 Pro oferece funções e desempenho avançados em um design durável e compacto. A velocidade de impressão de 5 polegadas por segundo garante maior eficiência, e a ampla memória Flash e SDRAM de 128 MB integradas permitem uma gama de aplicações.





DESKTOP BARCODE PRINTER OS-214plus Pro/OS-214 Pro User's Manual





V1.0-20250324

Website: http://www.argox.com
service@argox.com

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into a different outlet on a different circuit.
- Consult the dealer or an experience Radio/TV technician for help.

This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to insure compliance. The user is cautioned that any changes or modifications not expressly approved by Argox Information Co., Ltd. could void the user's authority to operate the equipment.

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CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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Supplemental Information: This device complies with the requirement of FCC Part 15 Rules. Operation is subject to the following two Conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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This device complies with Industry Canada ICES-003 class A requirements. Cet equipement est conforme a ICES-003 classe A de la norm Industrielle Canadian.



UL 62368-1, 3rd Ed. EN 62368-1:2020/A11:2020.



The manufacturer declares under sole responsibility that this product conforms to the following standards or other normative documents:

EMC: EN 55032:2015/A1:2020, Class A

EN 55035:2017/A11:2020



Argox Information Co., Ltd certifies that the following products and/or components of the European Union Restriction on the use of Hazardous Substances (RoHS) Directive, 2011/65/EU, (EU)2015/863.

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Getting Started

Congratulations on choosing the Argox OS-214plus Pro/OS-214 Pro desktop barcode printers. This manual will help you get to know your new printer. There are two parts to this manual, an operation guide and related information. The operation guide is illustrated to help you quickly become familiar with the printer. The related information includes troubleshooting, maintenance and technical information for your reference.

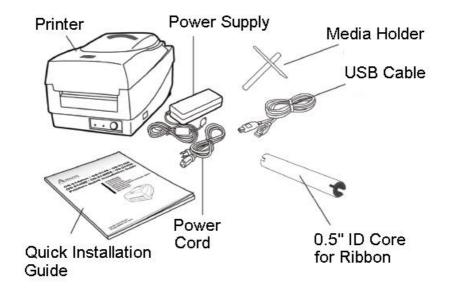
Unpacking

After receiving your printer, please check for possible shipping damage:

- 1. Inspect the outside of both the box and the printer for possible damage.
- 2. Open the top cover of the printer to see if the media compartments are in order.

Note: If damage has occurred, contact your shipping company immediately to file a claim.

 Check whether you have received the following accessories together with the printer. If there are any items missing, please contact your local dealer.



Package Contents

- Printer
- Power Supply
- Power Cord
- Quick Installation Guide
- USB Cable
- 0.5" ID Core for Ribbon
- Media Holder

Connecting the Power Supply

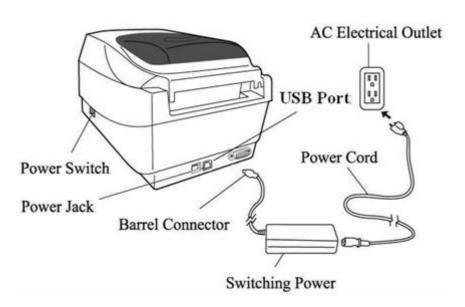
Connect the power supply as below.

WARNING! Do not operate the printer and power supply in an area where they can get wet.

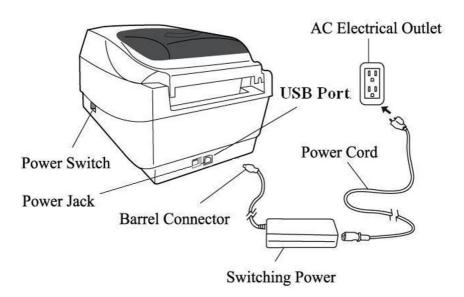
Make sure the power switch is in the "O" ${}_{\mbox{\scriptsize I}}$ Power Core

- Insert the barrel connector of the power supply into the power jack on the back of the printer. Note the location of the power jack for different models in the diagrams below.
- 2. Insert the separate power cord into the power supply.
- 3. Plug the other end of the cord into an AC electrical outlet.

OS-214plus Pro



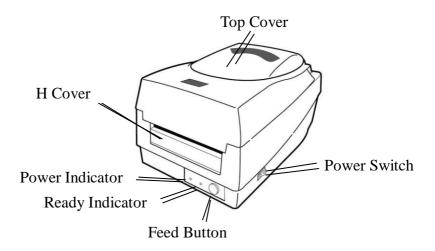
OS-214 Pro



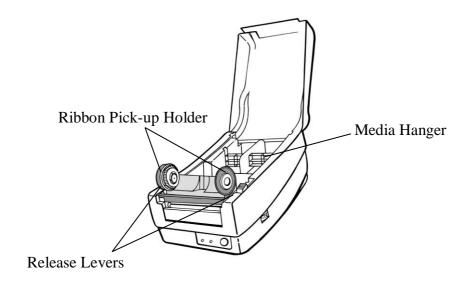
Getting to Know Your Printer

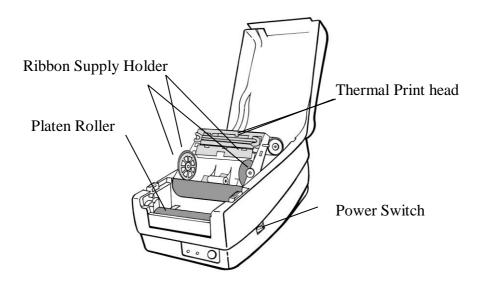
The illustrations that follow describe the printer's parts, features, controls, and indicators.

Parts and Features



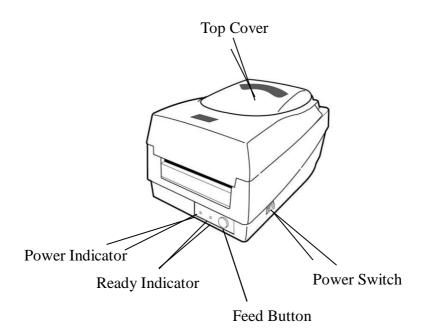
OS-214plus Pro/OS-214Pro





Controls and Indicators

The printer's controls and indicators are shown in the diagram below. The following table explains control and indicator functions.



Control / Indicator	Function
Power Switch	On: turns on normal operation
	Off: turns off power Note: Turn power off before connecting or disconnecting cables
Power Indicator	Green light shows the power-on
	Light off shows the power-off
	Blinking light indicates error has occurred
Ready Indicator	Green shows printer is ready to operate
	 Blinking light indicates printer is paused or data transferring
	Seagull driver status monitor
Feed Button	 Press to advance labels to the first printing position
	Press to take the printer out of "pause"
	Press and hold while turning on the power to print out a configuration profile

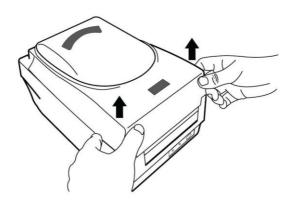
Loading Ribbon and Media

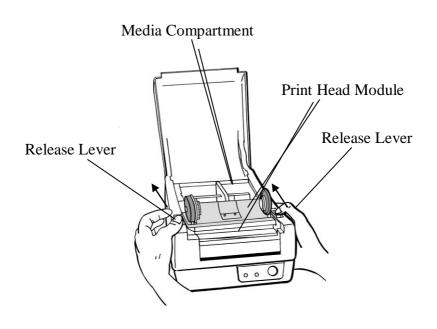
This section describes how to load ribbon and media in the OS Series printer.

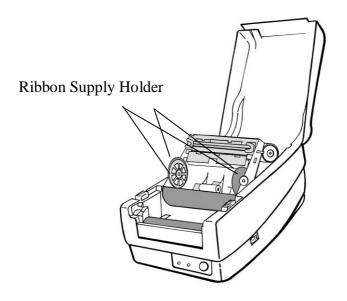
Loading Ribbon

Note: This section does not apply to direct thermal printing.

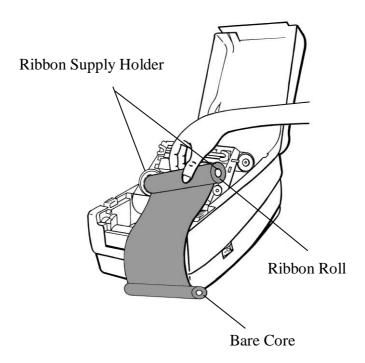
- 1. Lift the top cover to expose the media compartment.
- 2. Unlatch the print head module by pushing the two white release levers on the sides toward the rear.
- 3. Turn over the print head module to expose the ribbon supply holder.



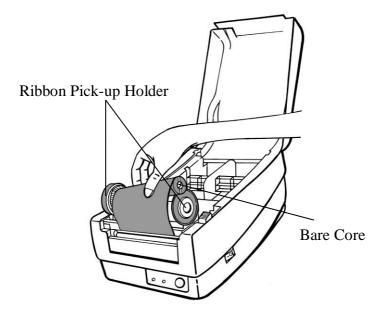




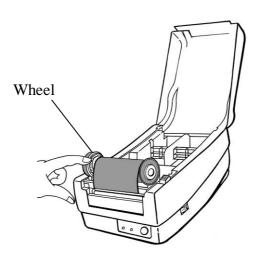
- 4. Unwrap the ribbon roll pack and separate the ribbon roll and the bare core.
- 5. Attach the edge of the ribbon on the bare core and wind it a little bit onto the core.
- 6. Insert the ribbon roll into the supply holder. (First snap in the left side and then the right side.)

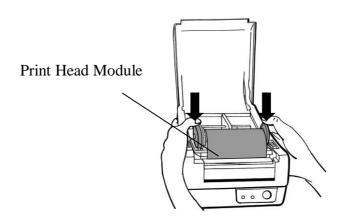


7. Turn back the print head module and then insert the bare core into the pick-up holder. (First snap in the left side, and then the right side.)



- 8. Turn the wheel of the print head module to ensure the ribbon is tightly wound.
- 9. Press down the print head module firmly until you hear a snap.





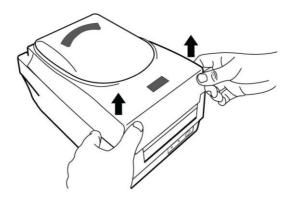
Loading Media

The OS-214plus Pro/OS-214 Pro printers offer Two different loading modes: standard or with a cutter.

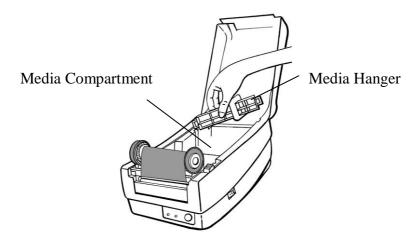
- Standard mode allows you to collect each label freely.
- **Cutter mode** automatically cuts the label after it prints.

Standard Mode

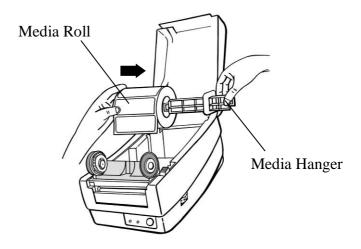
1. Lift the top cover to expose the media compartment.



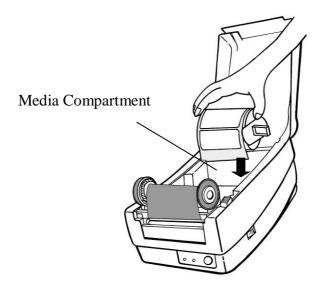
2. Remove the media hanger.

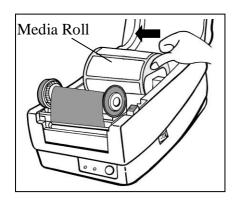


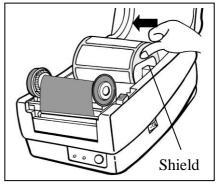
3. Load the media roll onto the hanger from left to right.



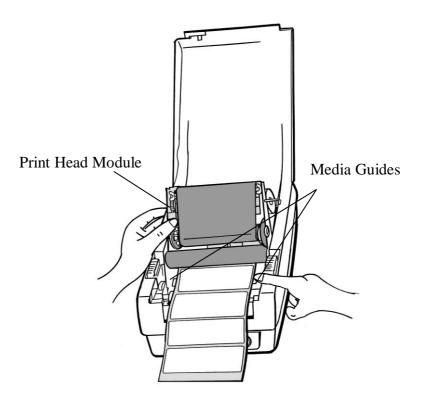
- 4. Click the media hanger back into the media compartment.
- 5. Align the media roll to the left end.
- 6. Move the shield from right to left until it leans against the media.



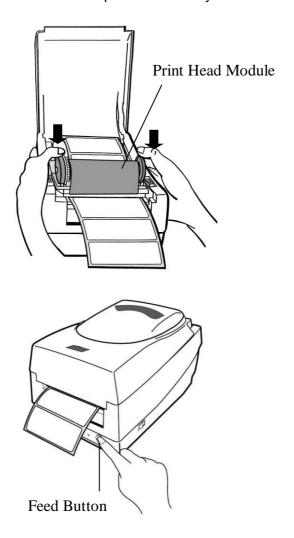




- 7. Unlatch the print head module.
- 8. Hold the print head module upright with one hand to allow the media to pass under it. Lead the media through the media guides with the other hand.
- 9. Lead the media over the platen roller.



- 10. Put the print head module down and press down firmly until you hear a snap.
- 11. Close the top cover and turn on the printer or press the "FEED" button if the printer is already on.

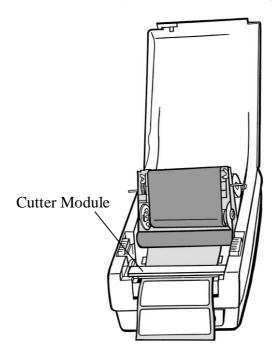


Cutter Mode

Note: For Cutter mode you must first install the cutter and add the cutter baby board connect to J8 on the main board. Please refer to Appendix I.

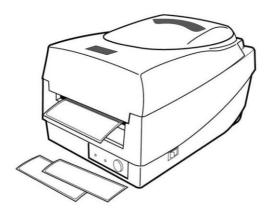
Follow Steps 1 to 8 listed in Standard Mode above.

- 9. Thread the media over the platen roller, then route the media through the slot of the cutter module.
- 10. Press down the print head module firmly.



11. Close the top cover and turn on the printer or press the "FEED" button if the printer is already on.

Note: The "FEED" button does not make the printer cut. Cutting occurs only when the software is properly set.



Calibration and Configuration

This section discusses calibration, printing configuration and resetting the printer to factory defaults.

Performing Calibration and Configuration

- 1. Make sure the media is properly loaded and the top cover of the printer is closed.
- 2. Turn off the printer power.
- 3. Press and hold the feed button while turning on the power, until the printing motor is activated.
- 4. Media calibration is performed while the printer automatically feeds the label stock for a certain length, the printing motor suspends for one second and then prints out a configuration profile. Release the feed button as soon as printer starts to print.
- 5. The profile includes firmware version, ROM checksum, RS-232, thermal transfer/direct thermal settings, hardware configuration, and font types.
- 6. At PPLB emulation, the printer enters character dump mode. To exit from dump mode, press the feed button again. (If you accidentally print the label without exiting from dump mode in advance, you need to turn on the printer or press feed button again to print normally.)

Important! You must always carry out calibration when changing media. Failure to do so will result in improper detection by the label sensor.

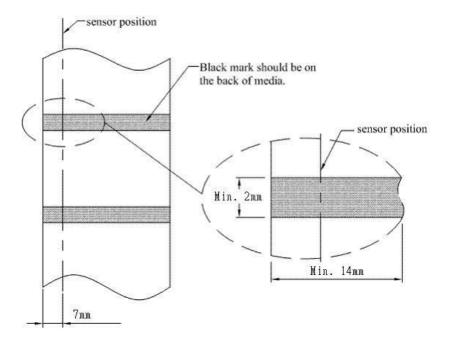
Sensor Detection

Detection Area of the Reflective Sensor

The reflective Sensor is positioned at 7mm from the left edge of media. The black mark minimum width (horizontal) should be 14mm on the left edge of media. The detection area, as illustrated below.

The gap type label is same as black mark label.

Black Mark



Resetting Printer to Factory Defaults

- 1. Turn on the printer and wait till both "Ready" indicator and "Power" indicator stay solid green.
- Press the "Feed" button for 5 seconds, and the "Ready" indicator and "Power" indicator will go off in order.
 (at this step, if the "FEED" button is pressed for 10 seconds, printer will reset first >> feed blank labels as media calibration >> and then print configuration/ self-test labels.)
- 3. Once "Power" indicator becomes lit again, release the FEED button.
- 4. "Ready" indicator will then become lit, too. At this moment, the printer has resumed its factory default settings

Note: Revise the factory default settings that stored in flash, even if turn off the power source cannot be eliminated.

Computer Connections

Note: You must insert the power supply's barrel connector into the power jack on the back of the printer before connecting communication cables.

This printer comes with a nine-pin Electronics Industries Association (EIA) RS-232 serial data interface and a USB interface. You must supply the required interface cable for your application.

Note: This printer complies with FCC Rules and Regulations, Part 15, for Class A Equipment, for use with fully shielded six-foot data cables. Use of longer cables or unshielded cables may increase radiated emissions above Class A limits.

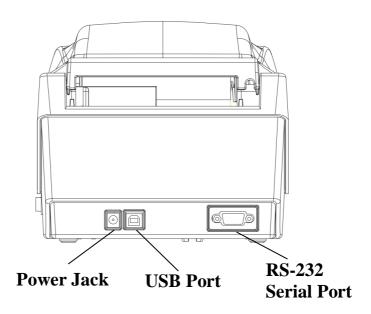
USB Interface Requirements

The Universal Serial Bus (USB) interface is version 2.0 and 1.1 compliant and provides a full-speed (12Mb/s) interface that is compatible with your existing PC hardware. The USB's "plug and play" design makes installation easy. Multiple printers can share a single USB port/hub.

Serial (RS-232) Interface Requirements

The required cable must have a nine-pin "D" type male connector on one end, which is plugged into the mating serial port located on the back of the printer. The other end of the signal interface cable connects to a serial port on the host computer.

For technical and pin-out information, please refer to the Reference Technical Information, Interface Specification.



OS-214plus Pro

Serial Cabling Requirements

Data cables must be of fully shielded construction and fitted with metal or metalized connector shells. Shielded cables and connectors are required to prevent radiation and reception of electrical noise.

To minimize electrical noise pickup in the cable:

- Keep data cables short (6 ft or 1.83m recommended).
- Do not tightly bundle the data cables with power cords.
- Do not tie the data cables to power wire conduits.

Notes:

Default settings are included in the configuration report.

Communicating with the Printer

The bundled printer driver can be applied to all applications under Windows XP/ Vista/ Windows 7/ 8 and 10, supporting 32-bit/ 64-bit operation systems. With this driver you can operate any popular Windows software applications including Argox Bartender UL label editing software or MS Word, etc., to print to this printer.

Drivers can be downloaded from Argox website

Installing a Plug and Play printer driver (for USB only)

Note:

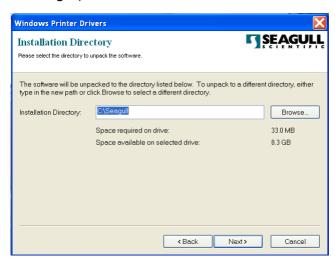
We strongly recommend that you use the Seagull Driver Wizard instead of the Microsoft Windows Add Printer Wizard when installing and updating your Drivers by Seagull. (Even though the "Add Printer Wizard" is from Microsoft, it too easily performs a number of tasks incorrectly when updating existing drivers. It also badly handles the situation where a printer driver is already in use by a Windows application.)

- Turn off the printer. Plug the power cable into the power socket on the wall, and then connect the other end of the cable to printer's power socket. Connect the USB cable to the USB port on the printer and on the PC.
- Turn on the printer. If the printer supports Plug-and-Play, and you have successfully connected it using a USB cable, then the Windows Add Hardware Wizard will automatically detect the printer and display a dialog that allows you to install a driver. Click Cancel and do not install the driver using this wizard.

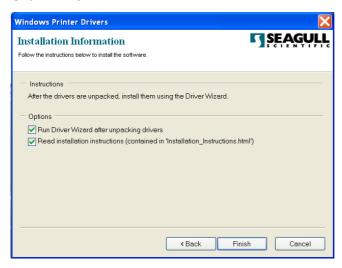
3. Run the driver from Argox website. On the prompt, Windows Printer Driver, select "I accept..." and click "Next".



4. Assign the directory to keep Seagull driver, (for example: C:\Seagull) and click "Next".



5. Click "Finish".

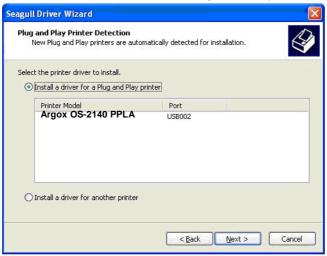


6. Select Install printer drivers and Click "Next"



Installation Directory where the Seagull driver files are located.

7. On the Seagull Driver Wizard prompt, select the first radio button to "Install a driver for a Plug and Play printer":



Then click "Next."

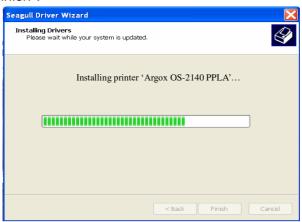
8. Enter Printer name (i.e. Argox OS-2140 PPLA) and select "do not share this printer", and click "Next".



Check all the data on the showing screen, if it is correct, click "Finish".



 After the related files have been copied to your system, click "Finish".



11. After driver installation is complete, click "Close". *The driver should now be installed.*

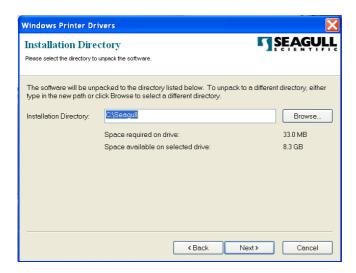


Installing the Printer Driver

- Turn off the printer. Plug the power cable into the power socket on the wall, and then connect the other end of the cable to printer's power socket. Connect the USB cable, Serial cable to the proper port on the printer and on your computer.
- 2. Run the driver from Argox website. On the prompt, Windows Printer Driver, select "I accept..." and click "Next".



3. Assign the directory to keep Seagull driver, (for example: C:\Seagull) and click "Next".



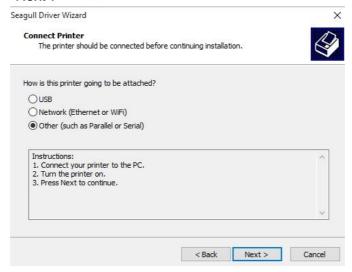
4. Click "Finish".



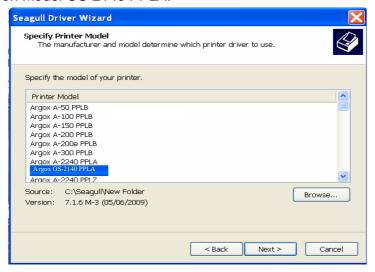
5. Select Install printer drivers and Click "Next"



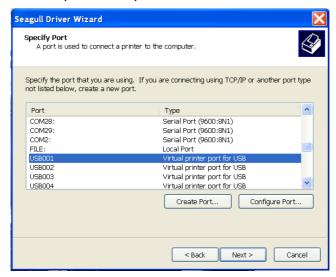
6. Make sure printer is connected to PC, select "Other" and click "Next":



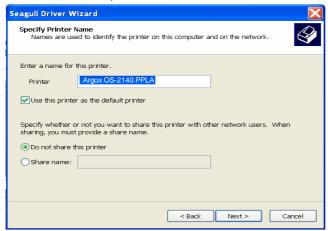
7. Select model & emulation - the following examples are based on model OS-2140 PPLA:



8. Select the port of the printer and click "Next".



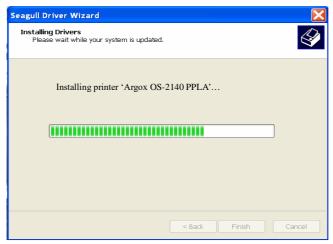
9. Enter Printer name (i.e. Argox OS-2140 PPLA) and select "do not share this printer", and click "Next".



Check all the data on the showing screen, if it is correct, click "Finish".



11. After the related files have been copied to your system, click "Finish".



12. After driver installation is complete, click "Close". The driver should now be installed.



Troubleshooting

Normally, when the printer is in not working properly, the "Power" LED blinks continuously; while printing and communication between the host and printer stops.

LED Diagnosis

Power and Ready LEDs blinking continuously indicates printer errors. To understand the problem, please observe the Power and Ready LEDs and refer to the following solutions:

LED Indicators: Power and Ready LEDs blink at the same tempo

Power LED	Ready LED
ON	ON
OFF	OFF

Possible Problems	Solutions	Remarks
Miss-detect gap	Check the label path	If you use a
	Check the label sensor	continuous label roll
		and run under
		Windows, select
		continuous media.
Label stock out	Supply the label roll	
Label stock not	Install the label roll	
installed		

Label jam	Recover the jam	

LED Indicators: Power and Ready LEDs blink alternately

Power LED	Ready LED
ON	OFF
OFF	ON

Possible Problems	Solutions	Remarks
Ribbon out	Supply the ribbon roll	Not applicable to
Ribbon jam	Recover the jam	direct thermal
Ribbon sensor error	Replace ribbon sensor	type.

LED Indicators: Only the Power LED blinks

Power LED	Ready LED
ON	ON
OFF	ON

Possible Problems	Solutions	Remarks
Serial IO error	Check the baud rate	Serial interface only
Memory full	Add the extension	
	RAM(flash memory	
	card)	
Cutter failed, or jam	Check the cutter	Occurs only when
at cutter	Recover the jam	installing or setting the
		cutter
Hardware error	Call for service	

LED Indicators: Only the Ready LED blinks

Power LED	Ready LED
ON	ON
ON	OFF

Possible Problems	Solutions	Remarks
Print head too hot	Printing will stop until the	
	print head cools to an	
	acceptable printing	
	temperature. When it	
	does, the printer will	
	automatically resume	
	operation.	

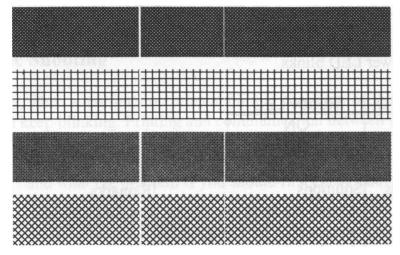
Miscellaneous

If the host shows "Printer Time out"

- Check if the communication cable (parallel or serial) is connected securely to your parallel or serial port on the PC and to the connector on the printer at the other end.
- 2. Check if the printer power is turned on.

If the data has been sent, but there is no output from the printer. Check the active printer driver, and see if Seagull driver for your Windows system and the label printer has been selected.

Vertical streaks in the printout usually indicate a dirty or faulty print head. (Refer to the following examples.)



Clean the print head. If the problem persists, replace the print head.

Poor printout quality:

- The ribbon may not be qualified.
- The media may not be qualified.
- Adjust the Darkness (heat temperature).
- Slow down the print speed.
- Refer to the next chapter and clean the related spare parts.

Recovery

After correcting problems, simply press the panel button or restart the printer to continue your print jobs. Make sure the LEDs are not blinking and remember to resend your files.

Caring for Your Printer

Adhesives and coatings of media can over time transfer onto the printer components along the media path including the thermal print head and media sensor. This build-up can accumulate dust and debris. Failure to clean the print head, media path, and media sensor could result in inadvertent loss off labels, label jams and possible damage to the printer.

Note: Turn off the printer before cleaning.

Cleaning

Clean the following components of the printer using a cotton bud dampened with alcohol. Do not soak the cotton bud excessively.

Media Sensor

Debris or dirt on the paper sensor can cause a miss-read or unstable detection of the label gap. Clean with a cotton bud dampened with alcohol.

Thermal Print Head

Thermal paper stock and the ribbon release debris on the print head, which degrades printing quality. Clean the print head with methanol or isopropyl alcohol and a cotton bud. Do not touch the heater element with your fingers. Debris or dirt on the roller should be cleaned with alcohol.

TPH Cleaning Interval:

It's strongly recommended to regularly clean print heads at least when changing every one ribbon roll (in thermal transfer printing mode), or every one label roll (in direct thermal printing mode). In addition, if printers are operated under critical applications and environments, or it's found print quality is degraded, please clean print heads more frequently.

TPH Cleaning Material:

Surface of print head's heating element is very fragile. To prevent from any possible damage, please use soft cloth or cotton buds with "Ethanol" or "industry alcohol" to clean print head surface.

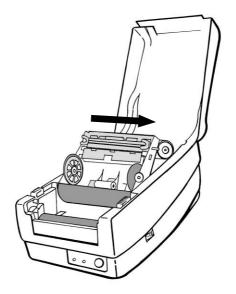
It's strongly recommended to wear hand gloves during cleaning progress.

Do not touch print head surface by bare hands or with any hard equipment. Water or spit should be kept away in case of corrosion on heating elements.

TPH Cleaning Direction:

When cleaning print head, please always wipe in One-Way Direction - from Left to Right only, or, from Right to Left only, to clean "Heating Line" of print head gently without excessive stress.

Do not wipe back and forth, to avoid dust, dirt, or ribbon residue on cleaning cotton would be attached onto print head again. (Please refer to below picture)

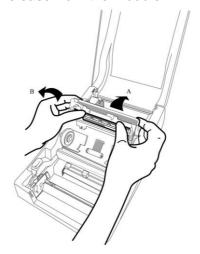


Special Caution:

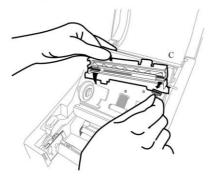
Warranty of print heads will be void if print head serial number is removed, altered, defected, or made illegible, under every circumstance.

Replacing the Thermal Print Head

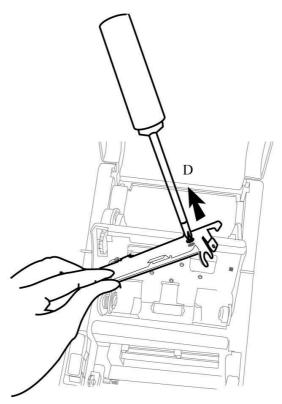
- 1. Switch off the power and wait for both LEDs to go off.
- 2. Unlatch the print head module.
- 3. Remove the ribbon.
- 4. Push the print head firmly into the casing and shift it to the left. It will release from the module.



5. Disconnect the print head cable.



- 6. Disassemble the print head and the mounting bracket by releasing screws.
- 7. Replace with a new print head. Reassemble the print head module in reverse order. Be careful not to touch the print head elements.



Important notice during TPH replacement

- 1. Heater line should NOT be touched by bare hands to prevent any damage caused by ESD or corrosion.
- 2. Surface of heaters should NOT be hit or scratched by sharp or hard things to prevent any damage by scratch.
- 3. Residue or contamination should NOT be removed by a cutter to prevent any damage by dent or scratch.
- Connector side should NOT be touched when cleaning TPH to prevent delaminated solder between FPC and wafer. Ink-jet characters could be erased, if cleaning cloth was touched them on FPC or label.
- 5. Heater surface should be free from any condensation.
- 6. TPH should NOT be put heater surface down.





Technical Reference

General Specifications

Specification	OS-214plus Pro	OS-214 Pro
Printing method	Direct Transfer/Thermal Transfer	
Printing resolution	203 dpi (8dots/mm)	
Printing speed	Up to 4ips (102mm/s)	Up to 5ips (127mm/s)
Printing length	Max 100" (2540mm)	
Printing width	Max 4.16" (105mm)	
Momony	128MB DRAM(32MB user available)	
Memory	128MB Flash ROM(100MB user available)	
CPU type	32 bit RISC microproces	sor
Media sensor	Reflective x 1	
Operation interface	LED indicator(Power/Ready)x2, Bเ	utton(Feed)x1
Communication Interface	RS-232(Baud rate 2400 ~ 115200 bps), USB	USB
Fonts	Internal character sets standard 5 alpha-numeric fonts from 0.049"H ~ 0.2 6.0mm) All fonts are expandable up to 24x24 4 direction 0 ~ 270 rotation Soft fonts are downloadable (up to 72 poi GB 18030 Standard (Chinese coded char	nts)

	PPLA: Code 39 \ UPC-A \ UPC-E \ Code 128 subset A/B/C \
	EAN-13 · EAN-8 · HBIC · Codabar · Plessey · UPC2 ·
	UPC5 Code 93 Postnet UCC/EAN-128 ,UCC/EAN-128
	K-MART \ UCC/EAN-128 Random weight \ Telepen \ FIM \ I
	nterleaved 2 of 5 (Standard/with modulo 10 checksum/ with
	human readable check digit/ with modulo 10 checksum &
	shipping bearer bars) · GS1 Data bar (RSS)
	PPLB: Code 39 · UPC-A · UPC-E · Matrix 2 of 5 ·
	UPC-Interleaved 2 of 5 Code 39 with check sum digit
	Code 93 · EAN-13 · EAN-8 (Standard, 2 /5digit add-on) ·
	Codabar · Postnet · Code128 subset A/B/C · Code 128 UCC
40.0	(shipping container code) . Code 128 auto . UCC/EAN code
1D Barcodes	128 (GS1-128) Interleave 2 of 5 Interleaved 2 of 5 with
	check sum Interleaved 2 of 5 with human readable check
	digit German Postcode Matrix 2 of 5 UPC Interleaved 2
	of 5 × EAN-13 2/5 digit add-on × UPCA 2/5 digit add-on ×
	UPCE 2/5 digit add-on · 64 Compact Printer Series - User's
	Manual GS1 Data bar (RSS)
	PPLZ: Code39 \ UPC-A \ UPC-E \ Postnet \ Code128 subset
	A/B/C \ Interleave 2 of 5 \ Interleaved 2 of 5 with check
	sum \ Interleaved 2 of 5 with human readable check digit \
	Code 93 Code 39 with check sum digit MSI EAN-8
	Codabar Code 11 EAN-13 Plessey GS1 Data bar
	(RSS) · Industrial 2 of 5 · Standard 2 of 5 · Logmars
	PPLA: MaxiCode · PDF417 · Data Matrix (ECC 200 only) ·
	QR code · Composite Codes
2D Barcodes	PPLB: MaxiCode · PDF417 · Data Matrix (ECC 200 only) ·
	QR code · Composite Codes
	PPLZ: MaxiCode · PDF417 · Data Matrix (ECC 200 only) ·
	QR code · Composite Codes · Aztec Barcode · Micro PDF417
Graphic	PPLA: PCX, BMP, IMG, HEX, GDI PPLB: PCX, BMP,
Emulation	Binary Raster, GDI PPLZ: GRF, Hex, GDI PPLA/PPLB/PPLZ
EIIIuiauon	FFLA/FFLD/PFLZ

Software-Label editing	Windows Driver (Win Vista/Windows 7/ 8/10) BarTender, ArgoBar Pro, iLabelPrint+(via USB cable on	
editing	Android)	
Software-Utility	Printer Tool, Font Utility	
Media Type	Roll-feed, die-cut, continuous, fan-fold, tags, ticket in thermal	
ivieula Type	paper or plain paper and fabric label	
	Max Width:4.33"(110mm) Min Width:1"(25.4mm)	
Media	Thickness:0.0025"~0.01"(0.0635~0.254mm)	
IVICUIA	Max roll capacity(OD):4.3"(109mm)	
	Core size:0.5"(12.7mm) (1"(25.4mm) optional)	
	Ribbon Width: 1"~4"	
	Ribbon roll – max OD: 1.45"(37mm)	
Ribbon	Ribbon Length: max 92m	
	Core size – ID: 0.5"(13mm) with notch	
	Wax, Wax/Resin, Resin (Outside Ribbon)	
Dimensions	W 186mm x H 153mm x L 278mm	
Weight	2.0kgs	
Power Source	Universal Switching Power Supply Input: 100V~240V, 1.5A, 50~60Hz, Output: 24VDC, 2.4A	
	·	
Operation	Operation Temperature: 40°F~100°F (4°C~38°C), 10% ~ 90% non-condensing,	
Environment	Storage Temperature: -4°F~122°F (-20°C~50°C)	
Ontional Items	Cutter, Stacker, RTC	
Optional Items	Guiler, Stacker, KTC	
Agency Listing	CE, FCC, CB, UL, BSMI, CCC,	

Fonts, Bar Codes and Graphics Specification

The specifications of fonts, bar codes and graphics depends on the printer emulation. The emulations PPLA, PPLB and PPLZ are printer programming languages, through which the host can communicate with your printer.

Printer Programming Language A, PPLA

Programming	PPLA	
Language		
Internal fonts	9 fonts with different point size 6 fonts with ASD smooth font. Courier font with different symbol sets.	
Symbol sets (Code pages)	Courier font symbol set: Roman-8, ECMA-94, PC, PC-A, PC-B, Legal, and PC437 (Greek), Russian.	
Soft fonts	Downloadable soft fonts	
Font size	1x1 to 24x24 times	
Character rotation	0, 90, 180, 270 degree, 4 direction rotation	
Graphics	PCX, BMP, IMG, HEX, GDI	
Bar code types	Code 39 (standard/with checksum digit), Code 93 Interleaved 2of 5 (standard/with checksum digit/with human readable check digit), EAN-8, EAN-13,UPC-A, UPC-E, Postnet, Codabar, Code 128 subset A/B/C, UCC/EAN-128, UCC/EAN-128 K-MART, UCC/EAN-128, Random Weight,	

Plessey, HBIC, Telepen, FIM, UPC2, UPC5, GS1 Data Bar, MaxiCode, PDF417, Data Matrix (ECC 200 only), QR code, Composite Codes

Printer Programming Language B, PPLB

Programming Language	PPLB	
Internal fonts	5 fonts with different point size	
Symbol sets (Code pages)	8 bits code page : 437, 850, 852, 860, 863, 865, 857, 861, 862, 855, 866, 737,851,869, 1252, 1250, 1251, 1253, 1254, 1255 7 bits code page: USA, BRITISH, GERMAN, FRENCH, DANISH, ITALIAN, SPANISH, SWEDISH and SWISS.	
Soft fonts	Downloadable soft fonts	
Font size	1x1 to 24x24 times	
Character rotation	0, 90, 180, 270 degree, 4 direction rotation	
Graphics	PCX, BMP, IMG, HEX, GDI, Binary raster	
Bar code types	Code 39 (standard/with checksum digit),Code 93 Interleaved 2 of 5 (standard/with checksum digit/with human readable check digit), EAN-8 (standard/2 digit add-on/5 digit add-on), UPC-A (standard/2 digit add-on/5digit add-on), UPC-E (standard/2 digit add-on/5 digit add-on), Postnet, Codabar, Code 128 subset A/B/C, Code 128 UCC (Shipping Container Code), Code 128 Auto, German, Postcode, Matrix 2 of 5, UCC/EAN 128,	

UPC Interleaved 2 of 5, GS1 Data Bar, MaxiCode, PDF417, Data Matrix (ECC 200 only), QR code,
Composite Codes

Printer Programming Language Z, PPLZ

Programming Language	PPLZ	
Internal fonts	8 (A~H) fonts with different point size. 8 AGFA fonts: 7 (P~V) fonts with fixed different point size (can't scale). 1 (0) font with scaling point size.	
Symbol sets (Code pages)	USA1, USA2, UK, HOLLAND, DENMARK , NORWAY, SWEDEN/FINLAND, GERMAN , FRANCE1, FRANCE2, ITALY, SPAIN, MISC, JAPAN, IBM850.	
Soft fonts	Downloadable soft fonts	
Font size	1x1 to 10x10 times	
Character rotation	0, 90, 180, 270 degree, 4 direction rotation	
Graphics	GRF, Hex and GDI	
Bar code types	Code39, UPC-A, UPC-E, Postnet, Code128 subset A/B/C, Interleave 2 of 5,Interleaved 2 of 5 with check sum, Interleaved 2 of 5 with human readable check digit, Code 93, Code 39 with check sum digit, MSI, EAN-8,Codabar, Code 11, EAN-13, Plessey, GS1 Data bar (RSS), Industrial 2 of 5, Standard 2 of 5, Logmars, MaxiCode, PDF417, Data Matrix (ECC 200 only),QR code Composite Codes, Aztec Barcode(OS-2140 and OS-2140D only)	

Notes:

1. The bare core for the ribbon must be 11 cm in length. It should have two opposite slits at two ends. If the ribbon itself is less than 11 cm, it must be aligned with the bare core in the left side when you install it.

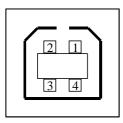
Interface Specifications

USB Interface

This is port complies with USB 2.0 Full Speed.

Connector Terminal Pin Assignment

Pin	Signal	Description
1	VBUS	5V
2	D -	Differential data signaling pair -
3	D+	Differential data signaling pair +
4	GND	Ground



USB series "B" Receptacle Interface

Serial Interface

The RS232 connector on the printer side is a female, DB-9.

Speed: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bauds

Parity: Odd, Even or NoneData Bits: 7 or 8 bitsStop Bit(s): 1 or 2 bits

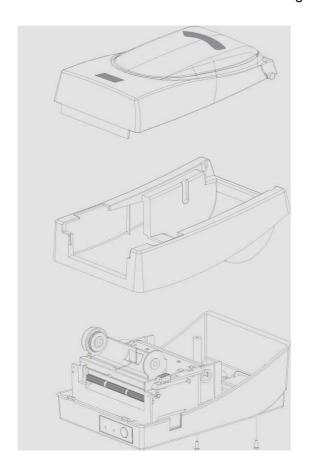
Factory Default Parameters: 115200 bauds, no parity, 8 data

bits, 1 stop bit

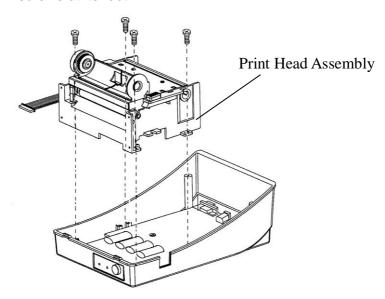
Pin	Signal	Description
1	No function	Shorted to Pins 4 and 6
2	Out	TxData
3	In	RxData
4	No function	Shorted to Pins 1 and 6
5	GND	Signal Ground
6	No function	Shorted to Pins 1 and 4
7	In	CTS
8	Out	RTS
9		N.C.

Appendix I - Installing the Cutter

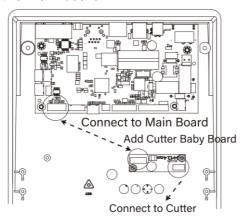
- 1. Turn off the printer power and unplug the power cable and Serial / USB cable.
- 2. Remove the top cover.
- 3. Remove the two screws under the base housing.



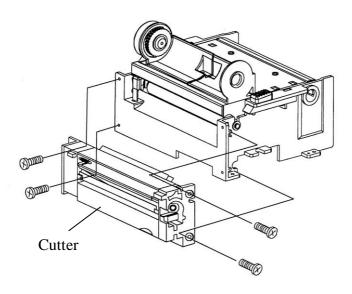
4. Remove the whole print head assembly by releasing the 4 screws at its feet.



5. Screw the cutter baby board and (JP1) connect to J8 on the main board.



6. Secure the four screws attaching the cutter.



- 7. Plug the cutter's connector into the PCB's header connector (JP2).
- 8. Reattach the print head assembly by securing the 4 screws.
- 9. Click back the middle cover.
- 10. Secure the two screws for the base housing.
- 11. Click the top cover into place.