



inkjet technology by

by

OPERATOR MANUAL

Astro Machine Corp.

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SAFETY PRECAUTIONS

THIS EQUIPMENT PRESENTS NO PROBLEM WHEN USED PROPERLY. HOWEVER, CERTAIN SAFETY RULES SHOULD BE OBSERVED WHEN OPERATING THE ASTROJET 2650P/2800P PRINTER.

BEFORE USING THE PRINTER, YOU SHOULD READ THIS MANUAL CAREFULLY AND FOLLOW THE RECOMMENDED PROCEDURES, SAFETY WARNINGS, AND INSTRUCTIONS:

- ✓ Keep hands, hair, and clothing clear of rollers and other moving parts.
- ✓ Avoid touching moving parts or materials while the machine is in use. Before clearing a jam, be sure machine mechanisms come to a stop.
- ✓ Always turn off the machine before making adjustments, cleaning the machine, or performing any maintenance covered in this manual.
- ✓ Use the power cord supplied with the machine and plug it into a properly grounded, easily accessible wall outlet located near the machine. Failure to properly ground the machine can result in severe personal injury and/or fire.
- \checkmark The power cord and wall plug is the primary means of disconnecting the machine from the power supply.
- \checkmark DO NOT use an adapter plug on the line cord or wall outlet.
- \checkmark DO NOT remove the ground pin from the line cord.
- ✓ DO NOT route the power cord over sharp edges or trap it between furniture.
- ✓ Avoid using wall outlets that are controlled by wall switches, or shared with other equipment.
- ✓ Make sure there is no strain on the power cord caused by jamming between equipment, walls or furniture.
- ✓ DO NOT remove covers. Covers enclose hazardous parts that should only be accessed by a qualified service representative. Report any cover damage to your service representative.
- ✓ This machine requires periodic maintenance. Contact your authorized service representative for required service schedules.
- \checkmark To prevent overheating, do not cover the vent openings.
- \checkmark Use this equipment only for its intended purpose.

In addition, follow any specific occupational safety and health standards for your workplace or area.

This manual is intended solely for the use and information of Astro Machine Corp., its designated agents, customers, and their employees. The information in this guide was obtained from several different sources that are deemed reliable by all industry standards. To the best of our knowledge, that information is accurate in all respects. However, neither Astro Machine Corp. nor any of its agents or employees shall be responsible for any inaccuracies contained herein.

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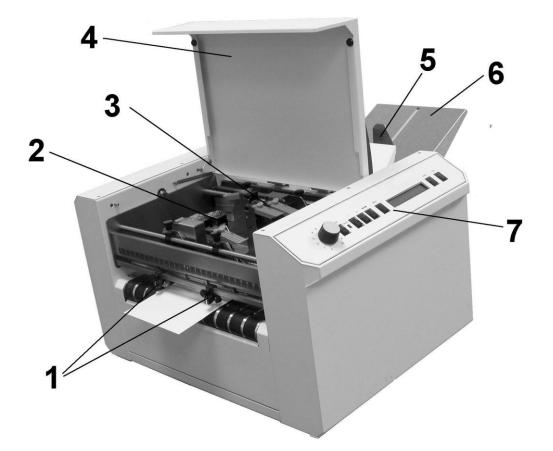
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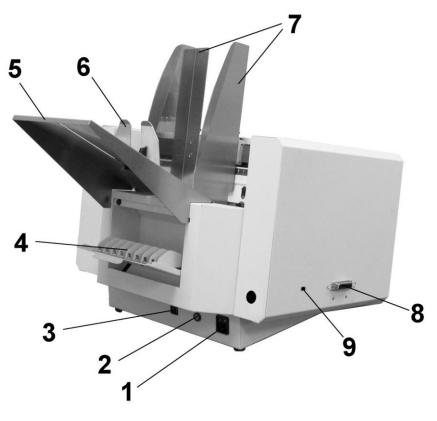
Notes

Section 1 – Getting Acquainted



Operator View

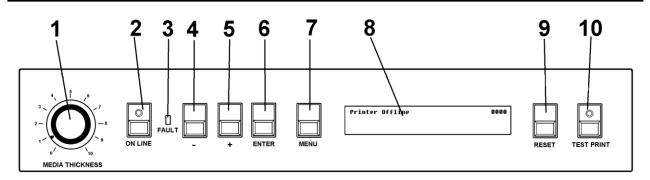
1.	Exit Guides – Help the media to exit the Printer.
2.	Printhead Assembly – AstroJet 2650P has six Printheads arranged on two rails and can print an image up to 3" wide. AstroJet 2800P has eight Printheads arranged on two rails and can print and image up to 4" wide.
3.	Media Sensor – Located behind the Printhead Assembly.
4.	Safety Cover – Encloses the Printheads.
5.	Rear Paper Guide – Holds the media against the Front Plate.
6.	Rear Paper Support – Supports the media while it is being fed.
7.	Control Panel – Used to operate the Printer. Knob is the media thickness control.



AstroJet 2650P Shown

Rear View

1.	Main Power Switch and Power Receptacle – Power cord plugs in here. Switch turns the Printer ON and OFF.
2.	Main Power Fuse – Protects all of the electronic circuits in the Printer.
3.	Motor Circuit Breaker – Protects the Motor from overloads.
4.	Cartridge Docking Station – Stores Ink Cartridges when not in use.
5.	Rear Paper Support – Supports the media while it is being fed.
6.	Rear Paper Guide – Holds the media against the Front Plate.
7.	Side Guides – Position the media in the Printer.
8.	Parallel Port – Connects the Printer to the Parallel Port on your computer.
9.	USB Printer Port – Connects the Printer to your computer using the USB Port.



Control Panel

1.	MEDIA THICKNESS – Knob on the right side of the Control Panel is used to adjust the height of the Printheads to compensate for different media thickness.
2.	ON LINE key – Indicator lights when data is sent to the ASTROJET 2650P/2800P and printing is ready to begin. Also turns the Printer offline to access the Menu Mode.
3.	FAULT Indicator – Lights when there is a problem with the printing process.
4.	• key – In Menu Mode, use this key to scroll to the previous selection.
5.	+ key – In Menu Mode, use this key to scroll to the next selection.
6.	ENTER key – Starts and stops the printing.
7.	MENU key – Puts the Printer in the Menu Mode to access several operator functions.
8.	OPERATOR DISPLAY – Indicates the Printer's status including menus and error messages.
9.	RESET key – Resets the Printer to its wait state.
10.	TEST PRINT key – Puts the Printer in the Test Mode and sends a sample copy to check the Printer's output.

NOTE: A complete description of the functions and operation of the printer keys can be found in <u>Section 3 – Operating the ASTROJET 2650P/2800P</u>.

Section 2 – Installing the Printer

Before using the Printer the following must be done:

- Choose a location for the Printer
- Plug in the Printer and connect it to the computer
- Install the Inkjet Cartridges
- Set up the feed on the Printer
- Install the ASTROJET 2650P/2800P Printer Driver software on the computer

Choose a Location

The Printer should be placed on a sturdy worktable or cabinet at least 12 inches from any walls. Protect the Printer from excessive heat, dust, and moisture – avoid placing it in direct sunlight.

Connecting the Printer

Plugging in the Printer

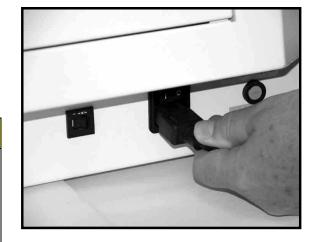
Make sure that the Main Power Switch on the Printer is in the OFF position.

- 1. Connect one end of the power cord to the rear of the AstroJet 2650P/2800P in the corresponding receptacle.
- 2. Depending on the version 115 volt or 220 volt, plug the other end into a 115 or 220 Volt AC, 50/60 Hz. grounded outlet.

CAUTION

Do not use an adapter plug or extension cord to connect the printer to the wall outlet. Do not use outlets controlled by wall switches.

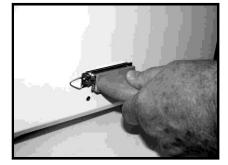
Do not use an outlet that shares the same circuit with large electrical machines or appliances.



Connecting to the Computer

Parallel Port: Plug the Parallel Printer Cable from your computer into the rear of the Printer and latch the two locking clips.

USB Port: You may also connect the Printer through a USB connection if you are using Windows ME, 2000, NT, or XP. **The cable used to connect the AstroJet 2650P/2800P to the computer must not exceed 6 feet long.**

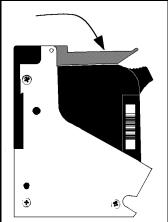


Install the Inkjet Cartridges

The AstroJet 2650P can be configured with six Inkjet Cartridges. The AstroJet 2800P can be configured with eight Inkjet Cartridges. To install the Cartridges:

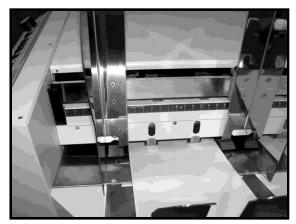
- Remove the Inkjet Cartridge from its packaging, taking care not to touch the copper contacts, the metal plate, or the gold printhead. Remove the protective tape from the Printhead.
- The Cartridges are held in place by a Latch Lever mounted on the Inkjet Cartridge Holder. Release the Lever by raising it vertically.
- With the Cartridge's Printhead pointing down, slide the Cartridge into the Holder. Push down and toward the contacts in the Holder.
- ۲
- Make sure the Cartridge is seated in the Holder then close the Latch Lever to secure the Cartridge in the Holder. Do not force the lever into place. (See diagram.)
- Repeat the above for the remaining Cartridges.
- NOTE: For optimum image quality during the run, refer to "Cleaning the Printhead".

The ink in the cartridge may be harmful if swallowed. Keep new and used cartridges out of reach of children. Discard empty cartridges immediately.



Setting up the Feed

- Release the Separator Locking Levers located on 1. the operator's side of the Feeder, then raise the Separators to the up and locked position. Move the Side Guides out to their outermost open position. Place one piece of media in the center of the Feed Table.
- 2. There are four Separators on the Feeder. Use the two Center Separators for narrow media and all four Separators for wide media. Place the media under the Separators and lower the Separators so that they rest on the media
- 3. Rotate the Locking Lever up to lock the Separators in place.



- 4. Loosen the knobs on the Side Guides. Adjust the Side Guides to within 1/32-inch of the media. Then tighten the knobs.
- 5. Adjust the Back Guide so that the media is raised approximately 1/2-inch and rests on the curve of the Back Guide. When running 10 inch or longer or heavy media you may have to set the Back Guide so that it just touches the back of the media.
- 6. Feed a piece of media through the Printer and adjust the two Exit Guides so that they ride on the media. To prevent smearing, make sure that the Exit Guides do not track over any printed information.

7. Turn the AstroJet 2650P/2800P on and then turn the Media Thickness Knob to set the initial Printhead height as follows:



Media Thickness	Dial Setting
.004" to 1/32"	0 to 2
1/32" to 1/8"	2 to 3
1/8" to 5/16"	3 to 7
5/16" to 3/8"	7 to 10

NOTE: These are initial settings. It may be necessary to adjust the MEDIA THICKNESS Control to optimize the print quality.

8. Press the ON LINE key, and then press the ENTER key, to test-feed media.

Installing the Printer Driver

A dedicated Printer Driver is included with the Printer. It must be installed on your computer before you install the AstroPrint Software.

NOTE: The Driver for the Printer should be installed using the steps below:

- 1. If you have, any applications running on your computer close them and restart the computer before beginning the driver installation.
- Install the CD in the CD drive and click START. Then click RUN, then type the following; D:\Setup.exe (where D is the CD drive) then click OK.
- 3. The "Add Printer Wizard (*n.nn*)" window will open, and then click <u>Next></u>.
- 4. Type in your Name and Company and click Next>.
- Select printer port LPT1. Then click <u>Next></u>. The "Add Printer Wizard" will appear. Select your printer from the table below, then click <u>Next></u>

Printer	Driver
AJ 2650P	AstroJet 2650
AJ 2800P	AstroJet 2800

- 6. The next screen allows you to "Name Your Printer". Unless you have another printer of the same name on your system or network ignore this step and click <u>Next></u>.
- 7. Click **Finish** to complete the installation.



Colorial		areas forware Parasal
	cturer and model of your printer. If you pri documentation for a compatible model.	nter is not listed,
Manufacturers:	Printers:	Version:
Astro Machine Corp.	Astro Jet 300	3.69
	Astro Jet 500	3.69
	Astro Jet 1000	3.69
		12122
	Astro Jet 2600	3.70
	Astro Jet 2600 Astro Jet 2650	3.70 3.70
	Astro Jet 2600 Astro Jet 2650 Astro Jet 2800	3.70 3.70 3.70 3.70
	Astro Jet 2600 Astro Jet 2650	3.70 3.70

Section 3 – Operating the AstroJet 2650P/2800P

Once the Printer Driver is installed on your computer, you are ready to start printing. This section is divided into three parts. The first describes the function of the Printer Control Panel. The second section describes the Driver Properties and the various options available when you run a job. The third section describes how to Set Up a Job to Print from Microsoft Word.

The Printer Driver that you installed on your computer in Section 2 should be set as the default driver. It will then be accessible through your applications such as Microsoft Word. Other types of applications and database management software will work in a similar manner using the ASTROJET 2650P/2800P Driver.

This Section further assumes that you have connected the ASTROJET 2650P/2800P to your computer.

Printer Operation

When you first turn the Printer ON, the **ON LINE** key light will blink. The Printer's Display will show the message; "*Printer Offline / Enter for Paper Feed*". The **TEST** key light will be OFF. In this mode, pressing the **ENTER** key will start the paper feeding, but no printing will take place.

To print, you must put the Printer on-line, when you do the Display will change to the following message; "*Printer Online / Waiting for Data*". In this mode, when you send a job, the Printer will be ready to print when the **ENTER** key is pressed.

The following is a description of the operation of the Printer's various menu options that let you customize the operation of the Printer to suit. The Printer Control-Panel Keys can be used to access various functions that help the operator control the Printer. These functions and their operation are as follows:

TEST key

Pressing the **TEST** key momentarily places the Printer in the **Test Print Mode**. The word "Working" appears in the lower half of the Display, after a short period of time the Display changes to "Enter to feed". Pressing the **ENTER** key will start the printing process and print the Test Print. To stop the feeding, press **ENTER** again.

NOTE: If you have chosen to have the Printer start automatically (see the Menu key below) the Printer will start printing the Test Print once it is loaded without your having to press the ENTER key. In this case, pressing the ENTER key will stop the paper feed.

To exit the Test Print Mode, press the TEST key again and the Printer will return to its ready state.

Pressing and holding the **TEST** key will cause the Printer to enter the "Service Menu" where various functions of the Printer can be tested. To exit the "Service Menu", simply press the **TEST** key a second time. The "Service Menu" is primarily used by service to diagnose problems should they occur. You can use the "+" or "-" key to scroll through the menu. Pressing the **ENTER** key will test the function.

To check the level of the Ink Cartridges when you enter the Service Menu, press the "-" key and the amount of ink remaining will appear as a percentage in the lower half of the display window.

MENU key

The **MENU** key is used to access the special features built into the Printer and to customize the operation of the Printer. The basic features are accessed by momentarily pressing the **MENU** key. Use the "+" or "-" keys to access the features. The features available under this mode of operation are as follows:

NOTE: If the ON LINE key is ON, you cannot enter the Menu Mode. You must first take the machine off line by pressing the ON LINE key.

Media Thickness Setup – The first item to appear in the Display is the "*Media Thickness Setup*" if the Printer is equipped with an Automatic Media Thickness Control. You can use this feature to pre-set the Printhead height for various media thickness.

Press Enter to Purge – The purging function is useful to clear the Printhead Nozzles when the machine has been sitting idle for a time. To activate the purge, press the **ENTER** key to feed one piece of media. To purge the Printheads additional times, press the **ENTER** key for each additional purge.

NOTE: The Printer will only purge one piece each time you press the ENTER key. For additional purges, press the ENTER key again for each subsequent purge.

Clear Batch Counter – Pressing the **ENTER** key will clear the number in the upper right hand corner of the Display. Resetting the Counter is usually performed at the start of each job. Turning the Printer OFF will not reset this Counter.

Purge First Piece – Turning the feature ON will cause the Printer to send one purge pattern on the first piece. After the purge is completed the next piece will be the first record of your database. Once this feature is turned ON it will remain ON even if the Printer is turned OFF.

Address Recovery – In event of a jam in the Printer, you can recover up to 10 pieces by pressing the **MENU** key, then stepping to the "*Address Recovery*". Then press the **ENTER** key. The message "Enter: Recover 1 Piece" will appear. Use the "+" key to select the number of pieces to reprint (1-10) then press **ENTER** again to start the printing process. When the pieces are printed, press the **ON LINE** key and then the **ENTER** key to resume printing the job.

Print Enhancement – Pressing the "+" or "-" key will bring this message up in the display. The Print Enhancement feature is used when printing to ensure that the Nozzles on the Printhead stay open and prevent the loss of the descender on letters such as "y" or "q" and accent marks that do not appear in every address. Pressing the **ENTER** key will turn this function ON or OFF. The function will remain as changed until the operator changes it again. Turning the Printer ON and OFF will not affect the setting.

NOTE: The Print Enhancement feature will time out after 100 seconds if no media is going through the Printer. Once media is being printed it will restart.

Automatic Feed – Turning the feature ON will cause the Printer to start feeding once the job is sent. If the ON LINE key is ON, the Printer will start feeding and printing automatically. If you prefer to press the ENTER key to start the printing process, then turn this feature OFF. Turning the machine ON or OFF will not affect your selection.

Pause Type: – This feature allows the Printer to respond to a "break mark" set in the database used in a given job. The "break mark" marks the end of a series within the database. For example, addresses with the same postal code or after a set number of entries. There are two "**Pause Type:**" selections:

Feed Stop – This setting is for standalone desktop units not used in line with other mailing equipment. The Printer will stop feeding media for a set amount of time after it "sees" a "break mark". Allows time for the operator to pack or separate that set of printed pieces before the next set starts. Use the "+" or "-" key to access this feature. Press **ENTER** to turn this function ON or OFF.

Conveyor Speed Up – This feature is for use when the Printer is used in line with other mailing equipment (conveyors, tabbers, etc.) When this feature is activated, the Printer responds to the "break mark" by sending a signal to the conveyor to speed up momentarily. This creates an obvious gap between the end of one set of pieces and the beginning of the next. Use the "+" or "-" key to access this feature. Press **ENTER** to turn this function ON or OFF.

Installing New Printheads – The Printer is capable of telling you when a Printhead is running low on ink. To use this feature, press the **MENU** key momentarily. Then use the "+" or "-" key to highlight "Enter when head (*n*) is filled". Press the **ENTER** key and install a new Cartridge. Repeat for each Cartridge you install. When the **ENTER** key is pressed the Display will change to "Head (*n*) has a new cartridge". To check the level of ink in the Cartridges, press and hold the **TEST PRINT** key until the "Service Menu" appears. Use the "+" or "-" key to scroll to the "Service Menu: Ink Levels, 100%100%100%". This will show how much ink remains in the Cartridge.

NOTE: This feature only works if the Cartridges remain in the original Head where they were installed. If you swap the Cartridges from one Head to another, the levels will not be accurate.

There is a second set of menus available in the Display. To activate them, press and hold the **MENU** key until the "Setup Menu" appears. You can step through these items with the "+" or "-" key.

Total Count – The total count displayed is the total number of prints that have passed through the Printer. It is non-resettable.

BIOS Version – Press the "+" key to display the version of the BIOS.

Bulk Ink – This feature is not used on the AstroJet desktop printers. No provisions are made to install the larger cartridges.

+ / - key

Used to step through the options in various Menu Modes.

ON LINE key

If the **ON LINE** key is ON, the Display will return the following message, "*Printer Online / Waiting for Data*" and the light will be lit. This means that the Printer is ready to print the job when it is sent. To have the Printer start printing immediately when the job is sent you must also have the Automatic Feed feature turned ON. If the ON LINE key is OFF the Display will return the following message, "*Printer Offline / ENTER for Paper Feed*". In this condition the machine can feed paper. This is useful for setting up the Feeder.

NOTE: If the Printer is off line and you send a job the Display will show "*Printer Offline / Data Ready to Print*". To print, you must first press the ON LINE key to put the Printer online. If you sent data and the Printer is set up not to start feeding automatically and the ON LINE key is lit, then the Display will show "*Printer Online / ENTER to Start Feed*".

ENTER key

Used to start the Printer printing when it is on line and the Automatic Feed is turned OFF. Additionally, when the Printer is placed in any of the Menu Modes, the **ENTER** key is used to choose the options available.

RESET key

Used to clear the Printer Memory and return it to the wait state. This key only functions if the Printer is off line.

Purge While Printing

To do the purge in the middle of a job, follow these steps:

Press **ONLINE** key to pause the current job.

Press the MENU key, then step to "Press Enter to Purge".

Press ENTER key to start the purge and press the ENTER key again to stop purge.

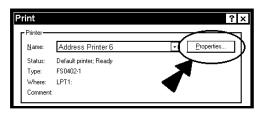
Press ONLINE key and then the ENTER key to get back to normal printing.

Note. If paper jam occurs during the purge, after the purge you should use Address Recovery to get back to normal printing. Otherwise you will lose records.

Printer Driver Properties

NOTE: The references in this manual are to the AstroJet 2650P Printer. They also apply to the AstroJet 2800P Printer. The difference is that the AstroJet 2650P Printer has six Printheads and the AstroJet 2800P has eight Printheads.

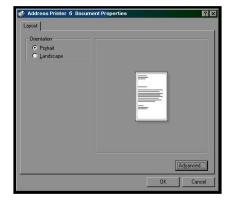
The Printer Driver describes to the Printer how to print your job. It controls the operation of the Printer and allows you to send fixed and variable text and graphics to the Printer. Within your



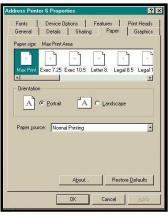
data management software is a print function. In that print function is a Properties Button. It is through the Properties that you control the output of your Printer. The Properties Window is used to customize the output of the Printer.

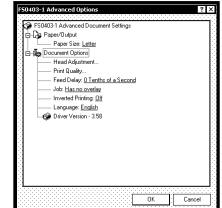
To start printing, click on **<u>F</u>ile**, then **<u>P</u>rint**. The "Print" window will open. If you wish to print the job, click **OK**. To use the special features built into the AstroJet 2650P/2800P Drivers, clicking on the <u>P</u>roperties Button will open the Properties Window in Windows 98, 2000, XP, or ME.

If you are using Windows 2000 or XP the window at right will open. Clicking on **Advanced** will open the "Options" window. In the following illustrations the windows for Windows 98, NT, and ME will be on the left. The windows for Windows 2000 and XP will be on the right.



When the Properties window opens you are presented with several tabs in Windows 95 and 98. The following are standard Windows Printer Driver functions and should be left at their defaults: **Graphics**, **Fonts**, and **Device Options**. The **Features** and **Print Heads** tabs are used to set up, change, and adjust the Printer.





Features Tab

The Features Tab/ Advanced **Options**, depending on the operating system, is used to change the speed and resolution of the Printer, to add a delay to the feed to provide separation between the pieces, and to print and overlay with the job. The first feature is the **Print Quality**, which has two settings: one for the resolution of the print quality, the second for the appropriate speed. Changing the resolution to a higher number (e.g. 200 DPI to 600 DPI) will increase the quality of the image. When the resolution is changed, the Belt

onts Device Options Printer control panel Language: English Print quality Resolution in DPI: Belt speed (IPS): Feed delay	Features Print Heads \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Image: Control of the second seco
Delay in seconds: Overlay No overlay	0.0 ±	Medium High

speed (IPS) is automatically changed to the optimum speed for the resolution selected. You can, however change the speeds to a lower speed as follows:

Resolution	Speeds available
150 DPI	Low, Medium, Medium High,
	and High
200 DPI	Low, Medium, and Medium
	High
300 DPI	Low, and Medium
600 DPI	Low

The **Feed Delay** can be used to put more space between the pieces as they are being printed. This will give the first piece printed more time to dry before the next piece is printed. The adjustment range is in 0.1-second increments. This feature works at all speeds.

The **Overlay** feature is used to save time printing when you are combining a database with fixed information or graphics. The default is "No overlay".

address Printer 6 Properties	F50403-1 Advanced Options
General Detaits Shairing Paper Graphics Fonts Device Dations Features Print Heads Printer control panel Language: English Language: English Image: Ima	FS04031 Advanced Document Settings Paper/Output Paper Size Letter Document Options Head Adjustment Fred Delay: <u>0.1enths of a Second</u> Use I Har no overlay Invert Har no overlay Long Contains overlay Drive Previous job contains overlay
OK Cancel Apply	OK Cancel

To use the Overlay feature, first create a layout in an application such as Microsoft

Word. Place all of the fixed information and graphics on this layout. Open the layout and go to **Print** in the **File** menu. Click on **Features** and then click on **Overlay**. Select "Contains overlay" from the box, and then click on **Apply** and **OK**.

Now open the job that contains the variable data and using **<u>File</u>** then **<u>Print</u>** from the dropdown menu open the "Print" window for the application. Click on **<u>Properties</u>**, then on the **Features** tab. Then click on the dropdown menu under "Overlay" and click on **<u>Previous</u>** job contains overlay. Click <u>**Apply**, then **OK**. When the "Print" window reappears, click **OK** to send the job to the Printer. To start printing press the **ENTER** key on the Printer.</u>

If you wish to print a second job using the same Overlay, simply open that job and send it to the Printer. If the next job does not contain an Overlay, then click on **Properties** in the "Print" window, select Overlay, then **No overlay**. Click **Apply**, then **OK**.

To print the next job with a different Overlay, repeat the process for the first Overlay.

NOTE: Turning the Printer OFF, then ON will clear the Overlay and the job.

Print Heads Tab

The purpose of the Print Heads Tab is to permit slight (0.001-inch) adjustment to the position of the Printheads to each other. The adjustment is used to align the three Printheads when printing graphics or type that extends beyond the width of one Pprinthead. Each Head can be moved ± 0.048 -inch in 0.001-inch increments.

If you want to move the Printhead toward the lead edge of your layout, then it should be moved in the "-" direction. To move the Head away from the lead edge, move it in the "+" direction.

When the Printer is turned OFF, any changes made this way return to the original settings.

Address Printer 6 Properties ? X General Details Sharing Paper Graphics	Print Heads	×
Fonts Device Options Features Print Heads Please enter the adjustment for each print head. The values must be between -48 and 48.	Please enter the adjustment for each print head. The values must be between -48 and 48.	
Adjustment	Adjustment	-1
Adjustment head 1:	Adjustment head 1:	
Adjustment head 2:	Adjustment head 2:	
Adjustment head 3: 0	Adjustment head 3:	
Adjustment head 5:	Adjustment head 4:	
Adjustment head 6:	Adjustment head 5:	
Default	Adjustment head 6:	
	Default	
OK Cancel Apply	OK Cancel	

Inverse Printing

The Paper Tab contains one element that is used to reverse or invert the printing on the AstroJet 2650P/2800P.

In normal operation the printing is read from the operator side of the Printer. It is sometimes necessary to turn the printing direction 180 degrees from the normal direction. This occurs when due to the layout or the method of binding the media must be fed in the reverse direction.

Clicking on the Paper Tab, then on the Paper Source will permit you to reverse the printing direction 180 degrees.

The rest of the settings on this tab should be left as they are. Paper size is always "Max Print Area" and Orentation is always "Portrait". Do not change them.

Address Printer 6 Properties
Fonts Device Options Features Print Heads General Details Sharing Paper Graphics
Paper size: Max Print Area
Harris Exec 7.25 Exec 10.5 Letter 8. Legal 8.5 Legal 1
Orientation A C Landscape
Paper source: Normal Printing
_
<u>About</u> <u>Restore D</u> efaults
OK Cancel Apply

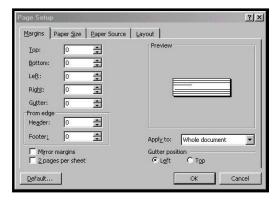
50403-1 Advanced Options	?
🚱 FS0403-1 Advanced Document Settings	
- 🖓 Paper/Output	
T Paper Size: Letter	
Document Options	
Head Adjustment	
Print Quality	
Feed Delay: <u>0 Tenths of a Second</u>	
Job: <u>Has no overlay</u>	
Inverted Printing: Off 🚽	
Language: English	
ок с	
	Cancel

Printing from Microsoft Word

If you are not using a specific program designed for mailing applications it is possible to print your mail pieces using Microsoft Word. This section will cover how to layout a piece and to print from Microsoft Word.

To begin, open a new page and turn on the toolbar for "Mail Merge". Under "Print", select the Address Printer 6 as the default printer. Go to **Page Setup** in the **<u>File</u>** menu. Set all of the margins to "0".

NOTE: The Printer must be selected before you do the set up so that the setting will be registered.



Next, select the **Page Size** tab and Custom Page. The size of the layout should be 3-inches high for the AstroJet 2650P or 4-inches high for the AstroJet 2800P, by the length of the piece you are intending to print. In our example, we have selected the width of a #10 envelope, 9.5-inches. The orientation of the piece is always **Portrait**. The effective printing area of the Astrojet 2650P is 3-inches by 17-inches and 4-inches by 17 inches for the Astrojet 2800P. When you have completed this step click **OK**.

Page Setup	<u>? ×</u>
Margins Paper Size Paper Sou	rce Layout
Paper_size: Custom size	FICVICW
<u>Wi</u> dth: 9.5"	
Height: 3"	
Portrait	
C Landscape	
	Apply_to: Whole document 💌
Default	OK Cancel

The next step is to create a text box so that you can position the address the proper distance from the lead edge of the piece. Once the page layout is set, you might want to save it as a template for use later.

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When you have completed the steps above the layout for an AstroJet 2650P should look like the one below.

NOTE: When setting up a layout for the ASTROJET Printers, be aware that the Printheads are aligned in two banks on the AJ2650P and these banks can be aligned so that you can print up to 3" wide. The AJ2800 has four banks of Heads that permit a 4" wide print area on your media. Where you position the banks is dictated by the requirements of the job.

Click on Tools and then Mail Merge. The "Mail Merge Helper" window will open. Click On Create, then Envelopes. The "Microsoft Word" window will open. Click on the Active Window button, and then click on the Get Data button. Next, click on Open data source. Locate the data file you intend to use. In our example, we are using a Microsoft Excel file. Select the file and the "Microsoft Excel" window opens select the entire spreadsheet and click **OK**.

Next, click on Edit Main Document and then click on Close.

Use the "Mail Merge" toolbar, click on Insert Merge Field, and begin to build the layout by inserting the address fields.

	<u>G</u> et Data ▼	્	Word found no menge button to insert merg	Fields in your main docume a fields into your main docu	nt. Choose the Edit Main Docu ment.
3嚪	Merge the data with the	docume		Edit Main Document	
	Merge				
			Close		

tep in setting up the n e Get Data button.

183

	CITY STATE ZIP ZIP4 ZIP_CODE DPBC RECNUMB			FIRSTNAME	f T	
erge Field 🗸 🛛 Insert W	'ord Field ▾ ≪≫ Merge	I 	▶ ▶ 電	₽⁄ ¥∎ ¥∌ <u>¥</u>		
,	Marga to: New document	-	Setup.		Merge	
		om:			Check Errors	

When you have completed setting up the layout, click on the Mail Merge icon on the toolbar and the "Merge" window will open.

In the Merge to menu, there are several choices for where and how the data is exported. The two that concern us are "New Document" and "Printer". If you choose "New Document", the merge will be created in your word application with a separate record for each address. If you choose "Printer",

Insert Me L No query options have been set;

the merge will send directly to the Printer and each record will be printed.

The next selection is "Records to be merged". You can select <u>All or From</u>.

The last selection is "When merging records". The default is "Don't print blank lines when data fields are empty." This should be left checked.

Clicking on Merge will start the process of merging the documents.

If you chose to send the merge directly to the Printer and the Printer is connected to the computer and turned ON, the Printer will start. Pressing the **ENTER** key will start the printing process.

If you have a graphic or fixed text to be printed with the data, refer to the section on Overlays.

Section 4 - Maintenance

This section covers how to care for the Ink Cartridges, clear paper jams, replace the Sheet Separators, and perform routine maintenance on the Printer.

The Inkjet Cartridge

The Inkjet Cartridges must be replaced when out of ink, when print quality is poor, or when purging and cleaning have not helped the image quality.

The approximate life of the HP 45 Inkjet cartridges, based on three lines of 20 characters at 10-point size per address, is:

600 x 600 DPI	50,000 addresses
300 x 600 DPI	100,000 addresses
200 x 600 DPI	150,000 addresses
150 x 600 DPI	200,000 addresses

NOTE: These figures can vary depending on the font selected.

To Replace the Inkjet Cartridge:

- Remove the used Cartridge from the Cartridge Holder by raising the Latch Lever to release the Cartridge, and then pull the Cartridge up and out of the Holder.
- Remove the new Inkjet Cartridge from its packaging, taking care not to touch the copper contacts, the metal plate, or the gold printhead. Remove the protective tape from the Printhead.
- The Cartridges are held in place by a lever mounted on the Inkjet Cartridge Holder. Release the lever by raising it vertically.
- With the Cartridge's Printhead pointing down, slide the Cartridge into the Holder and push down and toward the contacts in the Holder.
- Make sure the Cartridge is seated in the Holder then close the lever to secure the Cartridge in the Holder. Do not force the lever into place.
- Repeat the above for the remaining Cartridges.

CAUTION

NEVER SHAKE, DROP, OR HIT THE CARTRIDGE AGAINST THE PALM OF YOUR HAND OR ANY OTHER HARD SURFACE. SHAKING THE PRINT CARTRIDGE DOES NOT "MIX" THE INK AND HITTING THE CARTRIDGE AGAINST A HARD SURFACE DOES NOT CLEAR THE NOZZLES. BOTH OF THESE ACTIONS ACTUALLY HURT THE PRINT QUALITY BECAUSE THEY ALLOW BUBBLES TO FORM NEAR THE INK FIRING CHAMBERS. THESE BUBBLES PREVENT THE NOZZLES FROM FIRING, CAUSING WHITE STREAKS IN THE PRINT IMAGE.

Storage

Short-term Storage (less than 2 days or less than 1 day in a hot and dry environment)

Leave the Cartridge in the Printer for short periods of time, 1 day or less. The next time that the Printer is used, the Printhead may have to be cleaned and purged.

Long-term Storage (more than 2 days or more than 1 day in a hot and dry environment)

Place the Cartridges in the Cartridge Docking Station located at the rear of the Printer, or

Place the Cartridges in a Tupperware[®] container with a damp sponge or towel to maintain humidity and prevent the Printhead from drying out.

When the Cartridges are ready to be used again, the Printhead will need to be cleaned.

Disposal

The Cartridge may be disposed of in a normal manner.

In case of an ink spill, use soap and water to clean up any problem areas. Abrasive soap works well in getting ink off of hands.



The ink in the cartridge may be harmful if swallowed. Keep new and used cartridges out of reach of children. Discard empty cartridges immediately.

Cleaning the Printhead

To maintain good print quality it is important that the Printheads are kept clean. During the printing process ink spray, paper fibers, and dust can cause a build-up on the Printheads. This build-up will eventually degrade the print quality. If you begin to notice problems with the quality of the print, or to just prevent a build-up from occurring, wipe the Printhead with a wet fiberless cloth.

Cloth should be:

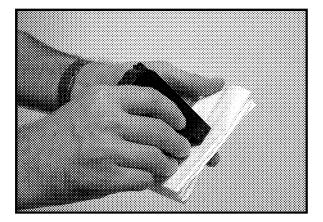
- ✓ Soft
- ✓ Fiberless
- Moistened with water (Distilled is best but tap water will work)

Wipe slowly across the long-axis with the Printhead facing down (as shown). Do not apply excessive force, as this could scratch the Nozzle area.

Cloth should not be:

★ Abrasive

- ★ Made of small fibers
- \mathbf{X} Dry or contain chemical additives



Purging the Nozzles

If the Printhead sits inactive for a period, ink may dry in the Nozzles. Printing may not remove these "ink plugs" from the Nozzles. White streaks will then show up in the printed text or graphic. In order to obtain better print quality, these ink plugs need to be forced out or purged. A Purge routine is built into the Astrojet 2650P/2800P Printer. It can be accessed from the LCD Panel on the Printer from the **MENU** key. If this does not solve the problem then proceed as follows:

- 1. Wipe the Printhead with a wet cloth as described in "Cleaning the Printhead" above.
- 2. Perform the Purge routine from the Printer by pressing the **MENU** key momentarily and then the "+" key. Load media and press the **ENTER** key to purge. Repeat if necessary.
- 3. Wipe the Printhead again with a moist cloth.

NOTE: For more information, refer to Troubleshooting Printheads in Section 5 – Troubleshooting Guide.

Jams in the ASTROJET 2650P/2800P Printer

If a jam occurs, **STOP the Printer.** Up to 10 missed addresses can be recovered at the Printer Control Panel. (See *Section 3 – Operating the Astrojet 2650P/2800P* "Print Recovery After Jam".

Some possible reasons for jamming are:

- 1. Feeding more than one piece of media.
- 2. Damaged media, such as dog-eared (turned down corners).
- 3. Media that is not stiff enough may not be usable. Media that meets Postal stiffness requirements for automated feeding is acceptable in the Printer.
- 4. Envelopes that are caught under the flap of another envelope or stuck to one another may cause jamming.

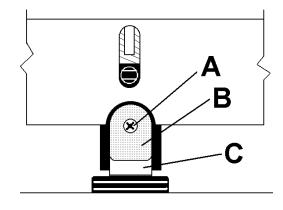
Removing Jammed Media

- 1. It may be necessary to move one or more of the Printheads to gain access to the jammed media. Take care in removing jammed media to prevent damage to the Printheads. All pieces of the jammed media must be removed from the feed path.
- 2. Follow the instructions in Section 3 Operating the Astrojet 2650P/2800P "Print Recovery After Jam".

Replacing the Sheet Separators

The Sheet Separators insure separation of the pieces as they are being fed. The do wear and must be replaced from time to time. If you experience double sheet feeding and cannot adjust the Separators to prevent it, they should be replaced. Replacement of the Sheet Separators is not difficult, simply follow the steps below:

- 1. Turn off the Printer and unplug it from the power source.
- 2. Release the Separator Locking Lever and move the Paper Side Guides to their maximum open position.
- 3. Lower the Separators so that they touch the Feed Roller.
- 4. Remove the screw **[A]** and the Separator Support **[B]**. Then remove the Separator **[C]** by prying it out of the Holder.
- 5. Install a new Separator in place and replace the Separator Support and screw.



Replacing the Feed Rollers

To replace the Feed Rollers on the AstroJet Printer follow the steps below:

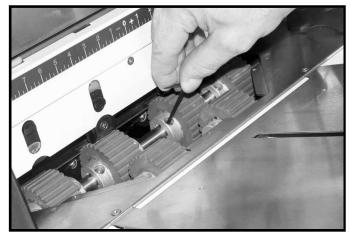
- 1. Before removing the Feed Roller Access Plate, unplug the power to the Printer.
- 2. Using a Phillips screwdriver, remove the three screws from the Feed Roller Access Plate.



3. Remove the Feed Roller Access Plate.



- 4. Rotate the Feed Roller Shaft so that the screws are face up. Use a 3/32-inch Allen wrench to remove the two button-head cap screws. This will permit you to remove one half of the Feed Roller. Rotate the shaft until the two screws holding the second half of the Feed Roller in place are accessible. Remove those screws also. Install the Feed Roller half and replace the screws. Rotate the shaft, replace the second Feed Roller half, and fasten with the remaining screws.
- 5. Replace the Feed Roller Access Plate and fasten with the four Phillips screws.



Cleaning

WARNING

THE PRINTER IS A PRECISION MACHINE THAT SHOULD BE CLEANED REGULARLY TO INSURE MANY YEARS OF SERVICE. BEFORE PERFORMING ANY MAINTENANCE, DISCONNECT THE MACHINE FROM ITS POWER SOURCE!

The Printer must be cleaned regularly of accumulated paper dust and ink. Depending on the types of media that are run, paper dust may accumulate within the Printer and on the Transport. To properly clean the Printer, unplug it from the power receptacle and remove the covers.

- **Internal Areas:** Best cleaned with a vacuum that has a soft brush attachment to help loosen the dust particles. Take care not to damage the PC Boards or electrical wiring.
- **Exterior Areas:** May be cleaned with any standard non-abrasive household cleaner that does not contain plastic-harming solvents.

CAUTION

NEVER SPRAY OR POUR CLEANERS DIRECTLY ON OR INTO THE PRINTER. EXCESS LIQUID COULD HARM ELECTRONIC PARTS. ALWAYS DAMPEN A RAG WITH THE CLEANER AND APPLY IT TO THE PARTS TO BE CLEANED.

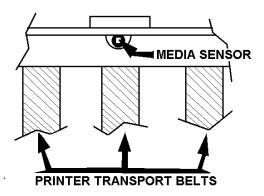
Feed Rollers and Forwarding Rollers

The Feed and Forwarding Rollers can become glazed with paper lint and ink from the media. They should be regularly cleaned with a mild abrasive household cleaner on a damp cloth.

Avoid using solvents on the Rubber Rollers.

Cleaning the Media Sensor

Periodically check the Media Sensor located in the Print Carriage area of the Printer section. The Sensor should be clean and free of accumulated paper dust. Use a vacuum with a soft brush attachment or dry compressed air to remove the dust.



Section 5 – Troubleshooting Guide

The following Troubleshooting Guides are provided to assist you in solving any problems that might occur with the Astrojet 2600P/2800P Printer or its software. We have tried to make them as complete as possible. The best advice we can offer is to make sure that the system is setup properly, plugged in, that it has an adequate supply of ink before attempting to troubleshoot any problem.

HP Inkjet Print Cartridges

CONDITION	PROBLEM	SOLUTION
Black streaks in text This is a sample of text showing- black streaks in the copy.	Lint or paper dust on Printhead.	Clean the Cartridge Nozzles with a clean lint-free cloth moistened with distilled water.
Cartridge will not print	Sheet is blank even after it has gone underneath Cartridge(s).	Check to make sure the tape is off the Printhead. Remove and reinsert the Cartridge into the Carriage Holder. Install a new Print Cartridge.
White streaks in text or graphics Michael Junes Actro Machino Corp. 630 Lively Blvd. Elk Grove Village, IL 60007-1234	Lint or dust blocking Printhead holes. Poor contact between Printhead and Printhead Holder.	Clean the Cartridge Nozzles with a clean lint-free cloth moistened with distilled water. Clean Interconnects. Remove and reinsert the Cartridge into the Holder. Insert a new Print Cartridge.

The Printer

Extra lines; losing data Database problem Check data in database program Improper output (address information out of order, miss- feeding, etc.) Wrong Interface settings The data is cleatricity Check software or database on the PC. Media jams Double feeding Media is curled or bent Media is too thin Check atta in database on the PC. No communication Improper cabling / connector Unit not receiving power Media must be at least 0.008". Not printing on media Media not positioned properly Media not positioned properly Use proper cable (see Operator Manual). Print too light or missing character dots Running out of ink Purge or clean Cartridges. Blurry address Image is not sharp Printhead gap too high. Adjust Printhead gap too high. Adjust Printhead closer to the media. Split line of type Astro Machine Corp. 630 Livey Bivd. Elk Grove Village, IL 60007 Line of type is placed across two Printheads in relationship to each other using the Head Alignment Tool in the Astrolet Software out on the Properties window of the PC L. version Driver. Uneven split line of type Astro Machine Corp. 630 Livey Bivd. EW Grove Village, IL 60007 Some but not all of a line of type across two Printheads matches up Reposition the text in the layout so that it does not print across two Printheads. Check hashine Corp. 630 Livey Bivd. EW Grove Village, IL 60007 Some but not all of a line of type across two	CONDITION	PROBLEM	SOLUTION			
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DO NOT REMOVE THE SIDE COVERS OF THE PRINTER!	Astro Machine Corp. 630 Lively Blvd.	across two Printheads matches	Reposition the text in the layout so that it does not print across two Printheads. Check the Sheet Separator adjustment. Separators should just touch the media. Check that the Printhead is set at the proper height. A Printhead that is too high will cause slippage in the media as it is passing under			
		WARNING				
THERE ARE HIGH VOLTAGES PRESENT BEHIND THE COVERS!						

Appendix A – ASTROJET 2650P/2800P Specifications

PRINT TECHNOLOGY	AstroJet 2650P Inkjet, 6 HP 45 High Capacity Inkjet Cartridges AstroJet 2800P Inkjet, 8 HP 45 High Capacity Inkjet Cartridges	
ADDRESS SPEED	Up to 26,000/hr - #10 Envelopes	
PRINT QUALITY (Dots Per Inch)	High Quality600 x 600 dpiStandard Quality600 x 300 dpiLetter Quality600 x 200 dpiDraft Quality600 x 150 dpi	
IMAGE AREA	3" x 17" (2650P) 4" x 17" (2800P)	
PRINT ORIENTATION	Normal and Reverse	
INK MONITOR	Visible on Display	
FONTS	All TrueType fonts available on PC	
PRINTS	Prints graphics, logos, and barcodes	
MATERIAL SIZE	Length – 5" to 17" Width – 3" to 13.5"	
MATERIAL THICKNESS	Up to 3/8"	
FEEDER CAPACITY:	Up to 750 #10 envelopes	
MEMORY	64 MB	
PRINT COLORS	Versatile Black and General Black, Red, Blue, Green, and Yellow	
INK	Water-based, may require drying assistance for coated stock	
SOFTWARE	Windows TM Printer Drivers for Windows TM 95, 98, 2000, NT, ME, and XP	
DIAGNOSTICS	Resident in firmware	
FIRMWARE UPDATE	Flash PROM update.	
PC INTERFACE	Centronics Parallel and USB	
COUNTERS	One operator resettable job counter, one permanent lifetime counter	
DUTY CYCLE	60 million addresses total or 1,000,000 per month over a 5-year life cycle.	
DIMENSIONS	25" H x 28" L x 22" W (635 mm H x 711 mm L x 559 mm W)	
WEIGHT	80 lbs. (36.4 kg.)	
ELECTRICAL	AstroJet 2650P/2800P 115VAC or AstroJet 2650P/2800PE 240VAC, 50/60 Hz	
OPTIONS	Conveyor/Stacker and Drop Tray	

All Specifications Subject To Change Without Notice

Appendix B – Supplies and Optional Hardware

The following supply items and optional hardware are available from your Astro Machine Dealer:

Supplies

Red Inkjet Cartridge	HPC6168A
Green Inkjet Cartridge	HPC6169A
Blue Inkjet Cartridge	HPC6170A
Yellow Inkjet Cartridge	HPC6173A
Versatile Black	HPC8842A
General Black (works on high gloss media when used with dryer)	IQ2392

Optional Hardware

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