Using ColorBlend six-color printing technology

Océ | Arizona 600

User Manual

Revision E • December 9, 2004

Océ Display Graphics Systems

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12-09-04	Fourth Revision	Same	E	Additional maximum image width specification change, halogen lamp temperature control change (Firmware 3.3 or higher), added warning to not access the carriage during printing

Product Support and Documentation

For further information on the Arizona 600 printer or for information on other Océ Display Graphics Systems products, please contact:

Océ Display Graphics Systems
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San Jose, CA 95134
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Phone: 408-232-4000
Fax: 408-232-4100

Comments on this manual?

Please forward to the above address, marked Attention: S & S Department.

Arizona 600 Printer Warranty

Contact your Customer Service representative for information about your warranty.

Annual Maintenance Agreement

Océ Display Graphics Systems recommends the purchase of an Annual Maintenance Agreement to ensure optimum performance, the highest quality prints, and highest reliability. Please contact your Océ service manager for more information.

The supplies used in the Arizona 600 printer must meet Océ Display Graphics Systems qualifications and must be purchased from Océ Display Graphics Systems or its authorized agent. The use of any unauthorized ink and/or media is not supported by Océ Display Graphics Systems and may invalidate the Arizona 600 printer Warranty and/or Maintenance Agreement. If unauthorized supplies are used, Océ Display Graphics Systems reserves the right to charge the customer to restore the printer to the operating condition in which it left the factory.

Ordering Printer Supplies

Océ Display Graphics Systems works closely with the manufacturers of imaging media to characterize the properties that work best with ink and media used by Océ Display Graphics Systems printers. Océ Display Graphics Systems supplies are extensively tested in our laboratory before being approved for shipment to our customers.

Océ Display Graphics Systems recommends that you use only approved supplies. Contact your local representative for information about ordering supplies.

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1 Product Overview

Product Description

Thank you for selecting the Arizona 600 printer from Océ Display Graphics Systems. The Arizona 600 printer is a precision-crafted printer and must be operated in accordance with environmental and safety requirements as noted in this document. You must comply with these requirements as a condition of receipt and installation of the printer.

The Arizona 600 printer is a 1.9 m (75-inch) wide format printer that delivers resolutions up to 617 DPI using ColorBlend™ six-color (Super CMYK) color-print technology. Print speeds are 11.6 m^2 (125 square feet) per hour to 46.5 m^2 (500 square feet) per hour. The self-contained Arizona 600 printer uses solvent-based pigmented inks and is designed to minimize fume exposure. The printer can print on a variety of roll-based uncoated vinyl and paper-based ink-jet media. Some of the uses for this printer include:

- Outdoor backlit kiosks
- Exhibit graphics
- Banners
- Posters
- Backlit displays
- Point-of-purchase advertising
- Vehicle wraps

The internal hard drive enables reprinting without reprocessing (printing of multiple copies) from the easy-to-use push-button control panel located on the upper right side of the unit.

Unique Features

The printer utilizes four print heads per color, enabling production-speed printing. The print heads are positioned on a covered carriage assembly in six parallel rows. The color order on the print head carriage from top to bottom as viewed from the front of the printer is cyan, magenta, yellow, black, light magenta, and light cyan.

Other features include:

- High Speed/High Quality Printing: With 504 nozzles per color (total of 3024 nozzles), the Arizona 600 printer delivers fast print speeds with high-quality text and bold, vivid graphics.
- Semi-Enclosed: Semi-contained and ventilated, this configuration speeds the drying process and minimizes operator exposure to ink fumes.

- Automated Maintenance Routines: Automatic functions reduce the typical manual maintenance required by the operator.
- Auto-Gap Control: Automatically adjusts the print gap to optimize output quality, based on media profiles.
- 20-Micron (Average) Feed Accuracy: A patented system automatically positions the heads to the media between passes to accommodate any variation in the media, delivering superb image quality.
- Piezo Print-Head Technology: Industrial-grade print heads are designed for high-speed production printing.
- ColorBlend Six-Color Technology: Adds light cyan and light magenta to widen the color gamut and provide over-all smoothness and increased detail in light- to mid-tone colors.
- Hot-Swap Ink Delivery System: Enables ink bottles to be replaced on-the-fly without stopping the printer.
- On-Board 74-GB Hard Drive: Enables the printing, and reprinting of multiple copies without reprocessing.
- Low-Voltage Differential SCSI-3: Communication from a host computer enables fast data transmission using a cable up to 12 meters (40 feet) long.
- Two-Sided Printing Capability: The media drive and take-up path enables manual refeeding for duplex printing on select media.
- Media Versatility: Accepts media from 0.91 meters to 1.9 meters (36 inches to 75 inches) wide.
- IR Heater
  The IR heater is an infrared device that promotes the ink drying process inside the printer. The heater operates automatically and does not require operator intervention.

  When the IR heater is active during printing, the control panel displays a status message on the far right, such as IR:135°.

  As a safety precaution, an interlock powers Off the IR heater when the front door is opened.
- Print & Go
  The media loading procedure for Print & Go mode is documented in "Print & Go Media Installation" on page 3-17.

  The Print & Go feature includes an external media take-up unit (EMTU). Also included is a rubber feed roller and a pinch roller assembly inside the printer to guide printed media onto the external media take-up unit. The Arizona 600 printer can be run with media routed to the EMTU or to the

conventional internal take-up roll mandrel. The EMTU contains a holder for either component that is not in use (see Figure 1-1).

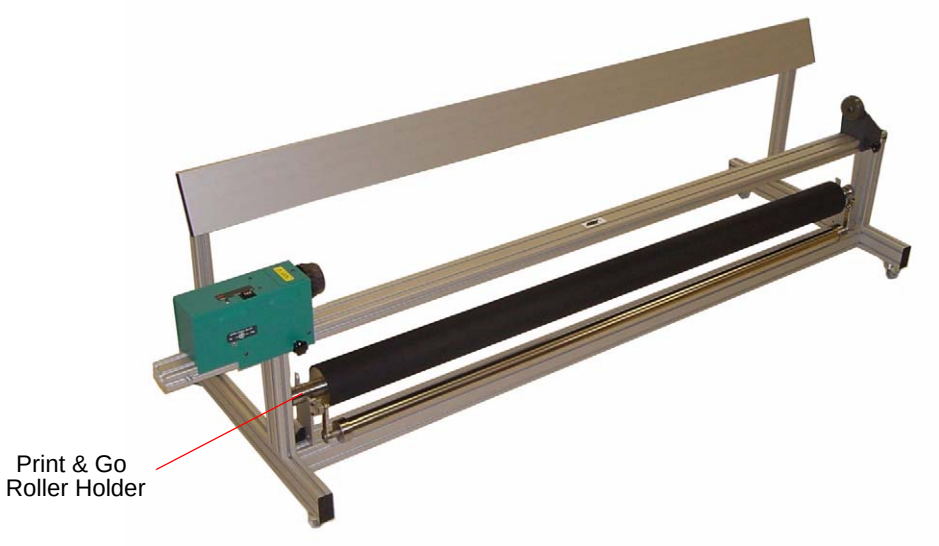


Figure 1-1 Print & Go Roller or Mandrel Holder

Firmware changes that accommodate the Print & Go feature present a few operational changes, including:

- Whenever the ADVANCE MEDIA button is used to reposition the media, no readjustment of the position occurs at the beginning of the next print. The effect of this button is the same as if the user pressed the CANCEL button to terminate the ADVANCE MEDIA function.
- Océ strongly recommends that only a small amount of media be rewound using the ADVANCE MEDIA button because the exposed media may not track smoothly back through the printer.
- When loading media in Print & Go mode, the operator can ignore the take-up roll diameter question because that diameter is not used.
- The MEDIA USED value (feet/meters) is not displayed on the control panel.
- Every print should pass through the dry cycle to prevent wet ink from offsetting onto the lower black roller. If another print is in the queue prior to a print being cancelled, the operator is given the option to continue drying or to cancel the print and allow the next image to begin printing.

Important: If the operator cancels a print before the drying cycle is complete, the media must not be advanced. Otherwise, ink will be transferred to the lower black roller.

Operator Requirements

Operators are responsible for the operation and, from time to time, performance of routine printer maintenance. Operator maintenance schedule guidelines are included in this manual (see "Maintenance Guidelines" on page 5-1 and Appendix B). The diligent application of these guidelines is essential to the optimum performance from your printer.

Important: The Arizona 600 printer requires two individuals for loading and unloading media.

Consumable Supplies

In addition to ink, a number of consumable supplies are required to maintain optimal print quality. These items can be obtained from the Supplies department. You will be provided a contact name and phone number when your printer is installed. The consumable items include the following:

- Ink filters (OIN #3012001622), refer to "Ink Filter Changes" on page 2-4
- Capping station pads (OIN #3012001442), refer to "Capping Station Maintenance" on page 5-8
- System Air Filters (OIN #3011570041), refer to "Purolator Hi-40 Filters" on page 5-18
- Air Pressure Pump Line Filter (OIN #3011695043), refer to "Air Pressure Pump Line Filter" on page 5-19
- Blotting Cloth (OIN #3012000247), refer to "Blotting Cloth Installation" on page 5-11

Cleaning Supplies

- 50-ml Syringe Kit (OIN #3010100747)
- Swabs (OIN #3011620285)
- Safety Glasses (OIN #3011620274)
- Lint-Free Cloth (OIN #3011620283)
- Butyl Gloves (OIN #3011620273)
- For use with 5500-series and 6600-series inks only,
  CGS-50 Cleaning Fluid, 1 Gallon (OIN #3012000798)
- For use with 440-series inks only,
  Capping Fluid (OIN #3012002981)
  Flushing Fluid (OIN #3012002982)

Switching On or Off

The printer is to be powered On/Off only by a trained and qualified service technician (see Figure 1-2). Position the power cord so that it does not pose a hazard when someone walks around or accesses the doors on the printer

Important: Full-time AC power is required to maintain negative pressure on the inkjet heads. Without this pressure, ink will drain out of the heads until the ink reservoirs are empty. If not rectified, permanent damage to the heads could occur.

The printer may contain a battery back-up vacuum control option to maintain negative pressure for approximately 48 to 72 hours. This vacuum backup is intended for emergency use only during power outage.

Figure 1-2 Circuit Breaker Switch Location

Precautionary Measures

The battery back-up vacuum control option prevents ink from draining out of the reservoirs for 48 to 72 hours if an AC power outage occurs. This back-up option is intended for *emergency* use only. If the printer will be without power for a longer period of time, all ink must be flushed from the system. Contact your Customer Service representative to perform this function.

The battery back-up unit power switch should always be in the ON (up) position to protect the system and charge the battery. The battery should maintain the printer vacuum for 48 to 72 hours. It is normal for the vacuum pump to run continuously when the printer has

lost power and running on battery back-up. If the power switch is left in the OFF (down) position, the printer will not be protected and the battery will eventually discharge (see Figure 1-3).

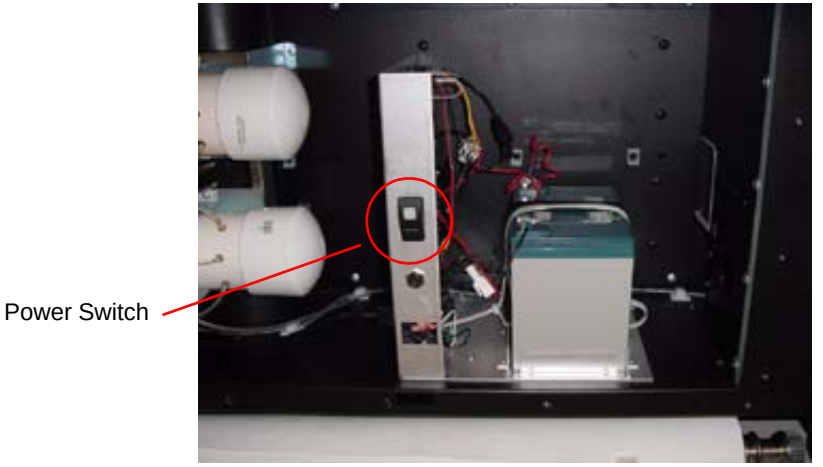


Figure 1-3 Battery Back-up Option

To verify the battery back-up unit is functional, perform the following steps:

1. Power down the printer.

   The battery back-up unit should power up the vacuum pump immediately upon losing power. If the vacuum pump does not start running, check the position of the battery back-up power switch. If the vacuum pump fails to run with the switch in either position, the battery may be discharged and require charging.

2. Power the printer back up.

   The battery back-up unit should power down the vacuum pump immediately upon the return of system power.

If the printer does not have the battery back-up vacuum control option and must be powered off for more than two hours, you must call your Customer Service representative to flush all ink from the system.

Though powered on, if the printer will not be printing for a period longer than two weeks, contact your Customer Service representative to flush all ink from the system.

Arizona 600 Technical Specifications

Writing Technology	Piezoelectric inkjet with 504 nozzles per color, six colors (C, M, Y, K, LM, LC)
Resolution	Up to 617 x 617 dpi
Print Mode/Speed	• Up to 46.5 metres^2 (500 square feet) per hour in 2-pass mode • Up to 23.2 metres^2 (250 square feet) per hour in 4-pass mode • Up to 18.6 metres^2 (200 square feet) per hour in 8-pass mode
Inks	• 5500-series and 6600-series inks in Cyan, Magenta, Yellow, Black, Light Magenta, and Light Cyan solvent-based pigmented inks, packaged in 3.78-liter (1-gallon) bottles • 440-series inks packaged in 3-liter bottles
Color Handling	ColorBlend Technology for overall smoothness and increased detail in light to midtone colors
Image Processing	Accepts proprietary bit-level image data, Onyx PosterShop® Server Color Production Software (RIP) available as an option
Media Type	Variety of uncoated vinyl films and inkjet paper-based media
Media Handling	Roll-fed, reel-to-reel direct imaging process, or reel-to-sheet with the Print & Go feature
Media Specifications	
Width	• Minimum: 91.4 cm (36 inches) • Maximum: 190.5 cm (75 inches)
Thickness	• Minimum: 5 mils (.13 mm/.005 inches) • Maximum: 30 mils (.76 mm/.030 inches)
Supply roll diameter	• Maximum: 17.8 cm (7.00 inches)
Image Width	• Media width minus 2.97 cm (1.17 inches) when printing single spit stripe • Media width minus 4.93 cm (1.94 inches) when printing dual spit stripes
On Board Hard Drive	One 74-Gigabyte hard drive
Connectivity	LVD-SCSI-3 for long-length communications (maximum 12 meters/40 feet)

Power Requirements

North America	200-240 VAC, 3-phase, 40 amps per phase, 60 Hz	
Europe	380-415 VAC, 3-phase, 40 amps per phase, 50 Hz	
Print & Go Power Requirements	100-240 VAC, 0.4 amps, 50/60 Hz	
Environment	Optimum Operating Range	Storage Temperature
Temperature	18.3°C to 26.7°C (65°F to 80°F)	15.6°C to 32.2°C (60°F to 90°F)
Humidity	40% to 60% RH noncondensing	10% to 80% RH noncondensing
Altitude	Up to 2,438 meters/8,000 feet	
Printer Dimensions	350.52 cm W x 111.76 cm D x 147.78 cm (H138 in. W x 44 in. D x 57 in. H) with casters	
Printer Weight	1093.2 kg/2410 lbs	

Components Reference

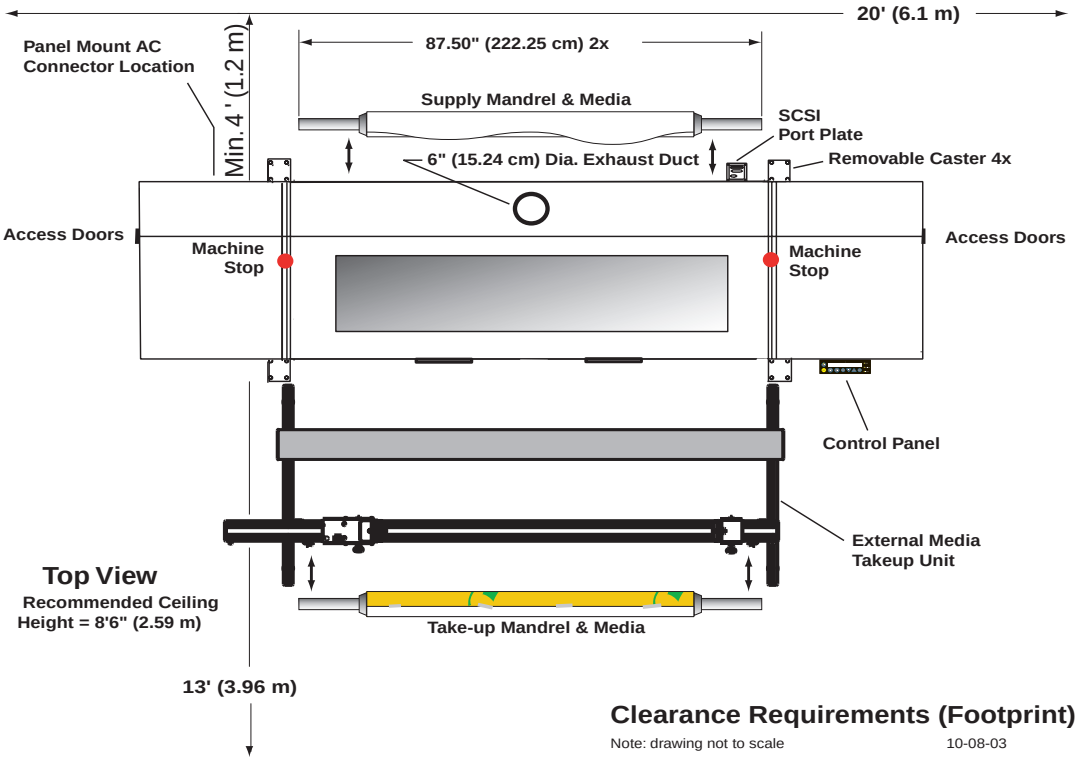


Figure 1-4 Clearance Requirements (Footprint)

Safety Information

MSDS

Read and practice safety guidelines as outlined in the Material Safety Data Sheet (MSDS) for each ink. Post the document in the work area as required by prevailing law.

Personal Safety

The operator should wear butyl rubber gloves, a protective apron, an NIOSH-approved respirator (half-mask organic vapor respirator), and safety glasses with side shields when handling inks.

Risks Associated with Handling Inks

The Arizona 600 printer uses solvent-based inks; the liquid and the fumes are combustible. The inks may cause eye irritation or skin irritation upon prolonged or repeated contact. The inks may be absorbed through the skin and may cause respiratory system irritation and nervous system impairment.

What to do with Ink Spills on Surfaces

Observe precautions as noted above, then:

1. Ventilate the area
2. Contain the spill
3. Cover with absorbent material
4. Collect spilled absorbent material
5. Place in a closed container
6. Clean up residue with water (do not release to waterways or sewer)
7. Incinerate in a permitted hazardous waste incinerator

What to do with Ink Spills on Persons

- **Eye contact:** Immediately flush eyes with large amounts of water. Get immediate medical attention.
- **Skin contact:** Flush skin with large amounts of water and wash with soap. If irritation persists, get medical attention.
- **Inhalation:** Remove person to fresh air. If not breathing, get immediate medical attention and give artificial respiration. If breathing is difficult, get immediate medical attention.
- **If swallowed:** Call a physician immediately. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

2 Ink System

Handling Inks

The Arizona 600 printer uses solvent-based pigmented inks in cyan (C), magenta (M), yellow (Y), black (K), light magenta (LM) and light cyan (LC) in 1-gallon (3.78-liter) replaceable supply bottles for 5500-series and 6600-series inks. The 440-series inks are in 3-liter bottles. Bottles should be visually checked daily. Read and practice the safety guidelines as outlined in the Material Safety Data Sheet (MSDS) for each ink, and post the document in the work area as required by prevailing law.

For personal safety, the operator must wear the following safety gear when handling inks:

- Rubber gloves
- Protective apron
- NIOSH-approved respirator (half-mask organic vapor respirator)
- Safety glasses with side shields

The liquid ink and its fumes are combustible. They may also cause eye and skin irritation upon prolonged or repeated contact. Ink may be absorbed through the skin and the fumes cause respiratory system irritation and nervous system impairment.

Ink Supply Tray

The ink supply tray is located at the lower left end of the printer (see Figure 2-1). Observe all bottle locations and warning labels on and around the ink supply tray.

Figure 2-1 Ink Tray (1-Gallon Bottles Shown)

Cleaning Fluid or Capping Fluid and Waste Bottles

The cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) is used to supply and preserve the capping station foam pads during operation of the printer (see Figure 2-2). The cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) tray has a level sensing device to detect when the bottle is empty. When notification is received from the printer, the operator must refill the cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) bottle.

The waste bottle collects the purged ink from the capping station. The waste bottle tray has a level sensing device to detect when the bottle is full. If the waste bottle appears full or the printer control panel is signaling that the bottle requires emptying, then do so in accordance with state and local laws or in accordance with the MSDS sheets (see Figure 2-2).

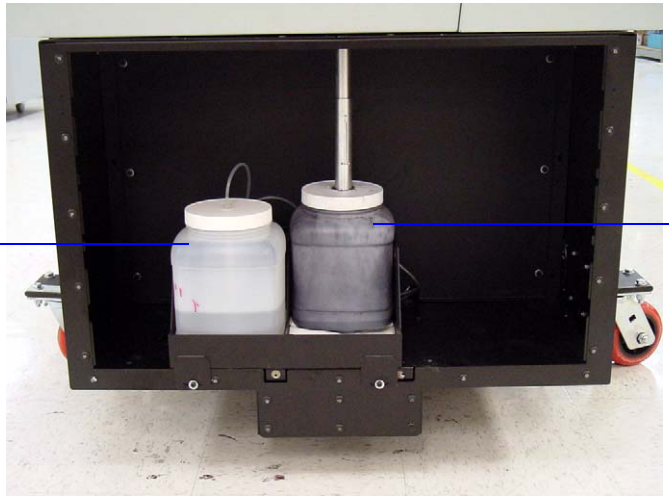


Figure 2-2 Cleaning Fluid or Capping Fluid Container and Waste Container

Ink Supply Changes

To reduce the chance of poor image quality, do not shake the ink supply bottles before installation or during printing. Shaking does not improve ink consistency but may introduce unwanted air bubbles into the ink system. Follow these steps to correctly replace the ink supply bottles:

Follow the control panel message and/or go to the Ink Menu to select the color ink to install or replace.

1. Locate the container on the ink supply tray that requires replacement and remove the cap and ink pick-up tube from the bottle (see Figure 2-3). Remove the empty bottle.

Figure 2-3 Supply Ink

2. The barcode on each bottle must be scanned each time a new bottle of ink is added to the printer (see Figure 2-4). For additional information about scanning the barcode and ink bottle installation (see "Ink Bottle Installation" on page 4-28).

Figure 2-4 Scanning the Ink Barcode

3. Remove the ink bottle cap and protective cover on the new ink supply bottle. Place it on the ink supply tray and insert the ink pick-up tube and cap. It should be placed loosely back on top of the bottle but not screwed down. If the cap seals too tightly, the printer may not pump the ink to the reservoirs.

Ink Filter Changes

The ink filter (OIN #3012001622) can easily be changed without mess by using the following procedure.

Note: The ink filter must be changed after four bottles of ink have been filtered.

The use of personal protection consistent with the safety recommendations noted at the beginning of this chapter is strongly recommended.

1. Remove the ink bottle from the printer and sit on the floor near the end of the printer.

Gently pull the filter away from the bulkhead and out of the printer.

Note: Observe the ink flow direction arrow on the filters for proper orientation.

2. With the new filter in hand next to old filter, remove the tube from the top of the old filter and place on the top of the new filter (see Figure 2-5 and Figure 2-6).

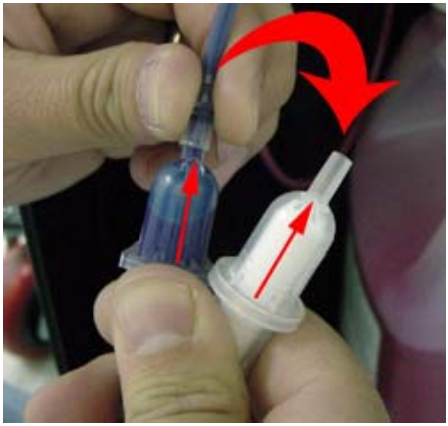


Figure 2-5 Remove the Top Tube from the Old Filter

Figure 2-6 Attach Tube to the New Filter

3. Hold the old filter up until the ink drains back into the supply bottle (see Figure 2-7).

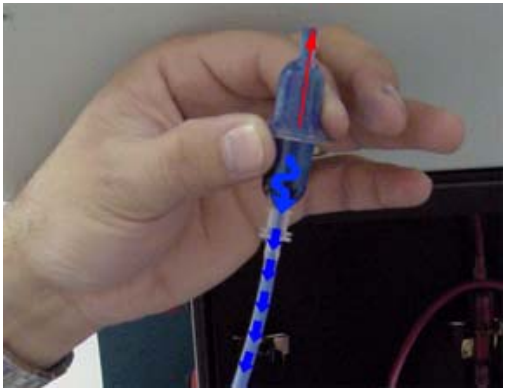


Figure 2-7 Allow the Ink to Drain from the Filter into the Supply Bottle

4. When the ink has drained from the old filter, disconnect the fitting from the bottom of the old filter and connect it to the new filter (see Figure 2-8).

Figure 2-8 Moving the Supply Tube from the Bottom of the Old Filter to the New Filter

5. Reattach the filter to the rear bulkhead and return the supply ink bottle to the supply bottle tray.

Warning:

Océ Display Graphics Systems accepts no liability when ink other than Océ Display Graphics Systems recommended ink is used. Customers voluntarily using ink not supplied by Océ Display Graphics Systems assume all risk of damage that might result. Customer agrees to waive any claims or rights they may otherwise have against Océ Display Graphics Systems or its agents for damage and/or loss of business resulting from use of ink other than Océ Display Graphics Systems ink.

3 Media System

Media Specifications

For detailed media specifications, refer to "Arizona 600 Technical Specifications" on page 1-7.

Media Handling

The Arizona 600 printer loads and prints centered on the media. Do not attempt to left or right justify the media during installation. Take-up cores should always be the same width as the supply media, and the attached media should be centered on the take-up core. The supply media is mounted from the rear of the printer, while the take-up is located at the front just behind the IR heater door. Dancer rollers are positioned between the vacuum platen and both the supply and take-up media mandrels to aid in correctly tensioning the media during printing.

To ensure the highest quality printing, protect the media coating and store it at the recommended temperature and humidity. Media should be stored in a horizontal position and conditioned to the printer environment. Place media in the same room as the printer for 2 to 24 hours before use.

Opening the Door

The first step in loading media is to open the IR-heater door on the front of the printer. Begin by releasing the black clips on both sides of the door (see Figure 3-1) and (see Figure 3-2).

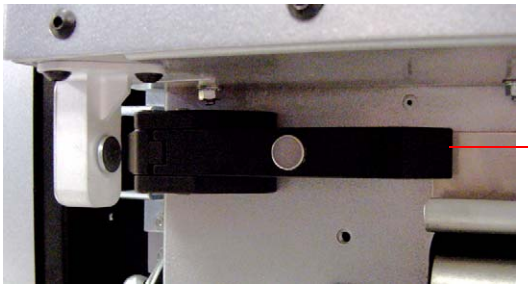


Figure 3-1 Left Clip Closed

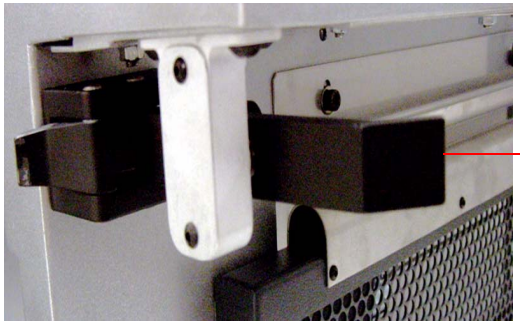


Figure 3-2 Left Clip Open

Grasp the door using the two handles and pull the door towards you and down.

Closing the Door

To close the door, grasp the door using the two front handles and pull the door up and away from you. Secure the black clips on each side of the door.

Media Support System

Océ Display Graphics Systems strongly recommends that two people change supply and take-up media rolls. The customer's media support system should be able to support the weight of a full media roll. Position the media support system as close as possible to the

printer to limit lifting by the operators when loading/unloading supply and take-up rolls of media (see Figure 3-3).

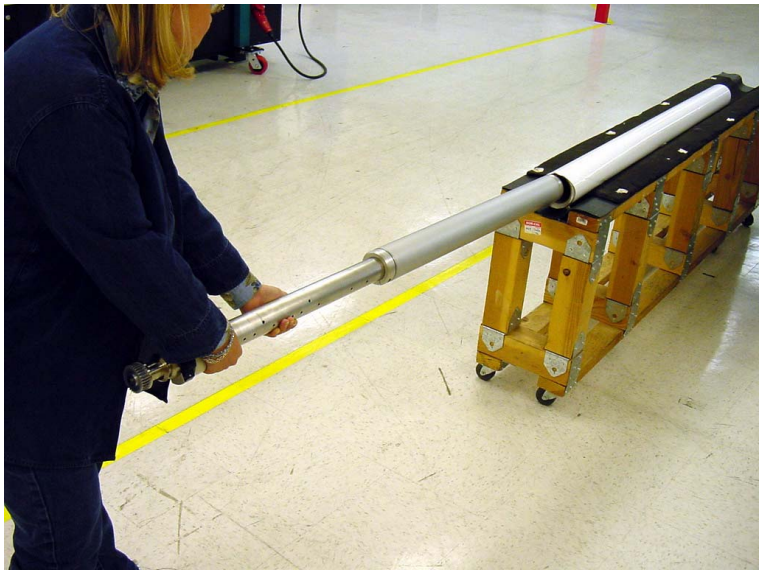


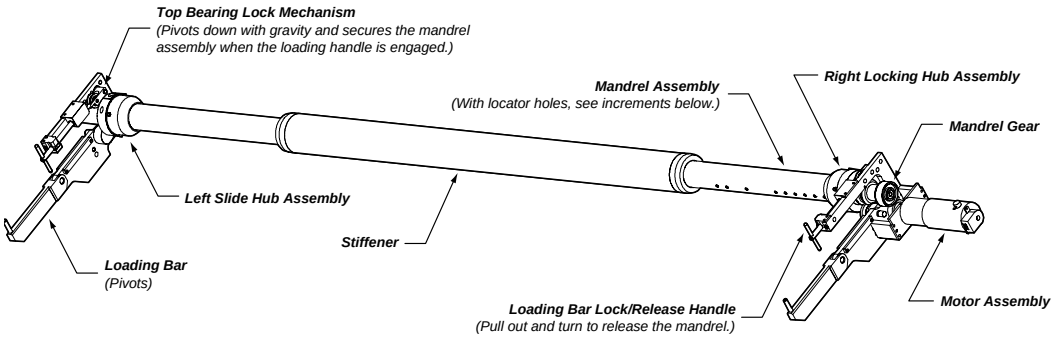
Figure 3-3 Media Support System and Installing Media on the Mandrel

Mandrel Assembly

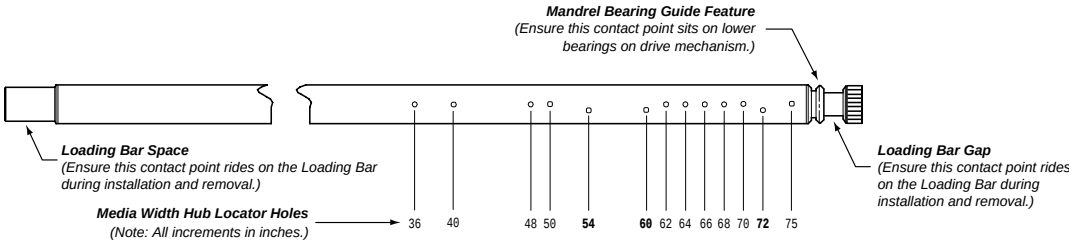
Each supply and take-up mandrel assembly includes two hubs. They must be adjusted according to the hole placement along the mandrel to center the supply and take-up media cores. Indexing holes are provided. The user should ensure that the locking pin on the right hub assembly is properly seated in the correct mandrel index hole.

The Arizona 600 printer accepts media from 0.91-meters to 1.9-meters (36-inches to 75-inches) wide. Specifically, the printer can handle 75, 72, 70, 68, 66, 64, 62, 60, 54, 50, 48, 40 and 36-inch wide rolls of supply media (see Figure 3-4).

3/4 View of the complete Mandrel, Stiffener, Loading Bar/Motor Assembly



Mandrel Bar Assembly



IMPORTANT! *The Arizona 600 is a center load printing machine. Do not attempt to left or right justify the media during installation. Take-up cores should always be the same width as the supply media and the loaded media should be centered on the take-up core.*

Figure 3-4 Mandrel Assembly

Roll-to-Roll Media Installation

Successful media installation is dependent on several factors, including:

- Centering/alignment of the supply media roll on the supply mandrel
- Matching lengths of the supply and take-up cores
- Aligned installation of the supply and take-up cores on the supply and take-up mandrels

Inexact installation may result in media encoder errors, the misreading of the media width, media rippling and/or head strikes.

Installing Supply Media

Océ Display Graphics Systems recommends cleaning the media drive roller after each roll of media (see Figure 3-11 on page 3-9 and "Media Drive Roller" on page 5-3).

Follow the steps below to install a new supply media roll:

1. Install the supply media on the mandrel (see Figure 3-3 on page 3-3), ensuring that the media is centered (see Figure 3-4 on page 3-4) and secure the locking hubs.

2. Lower the mandrel assembly support arms on both sides of the frame and place the mandrel/media assembly into the machine (see Figure 3-5). Make sure the mandrel is seated properly on the gear and steel rollers (see Figure 3-6 on page 3-6).

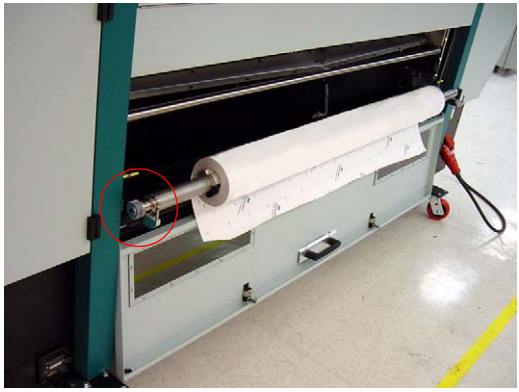


Figure 3-5 Mandrel/Media Assembly on the Support Arms

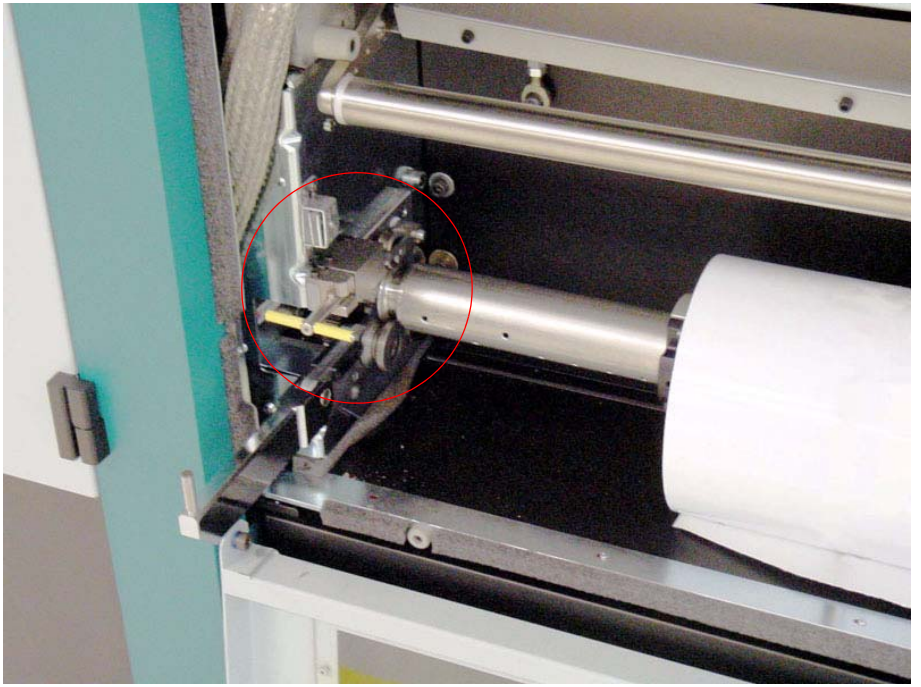


Figure 3-6 Secure the Mandrel/Media Assembly

Caution:

Ensure that the loading mechanism lock lever is in its horizontal position. If the lever flips backward out of position, media feed errors can result (see Figure 3-7) and (see Figure 3-8).

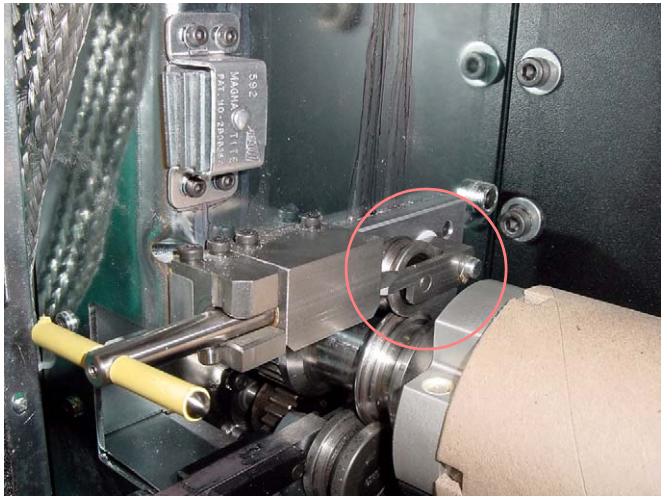


Figure 3-7 Loading Mechanism Lock Lever in the Correct Position

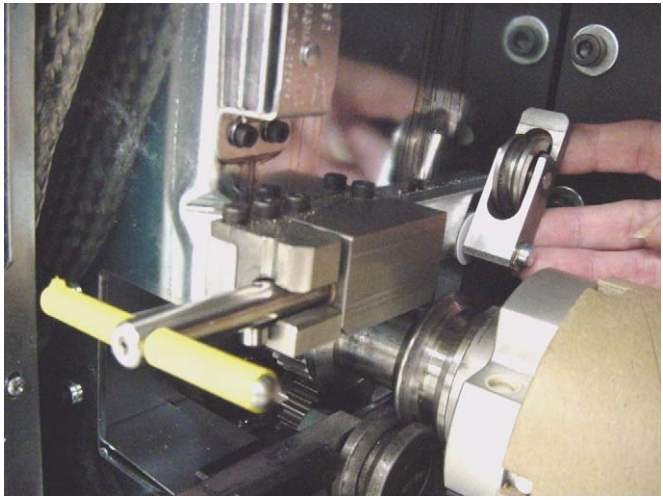


Figure 3-8 Loading Mechanism Lock Lever Out of Position

3. Lock the mandrel on both sides of the frame.

4. Gently close the rear door completely.

Loading New Supply Roll

Follow the steps below for loading a new supply media roll:

1. Press the Load Media button. You then see:
   Load Media
   new supply roll?

2. Press ACCEPT. You then see:
   Use +/- keys, attach
   takeup, press ACCEPT

3. Feed the media over the supply dancer and into the vacuum platen area. To keep the media from falling back, gently feed the media down between the back wall and the supply dancer assembly (see Figure 3-9).

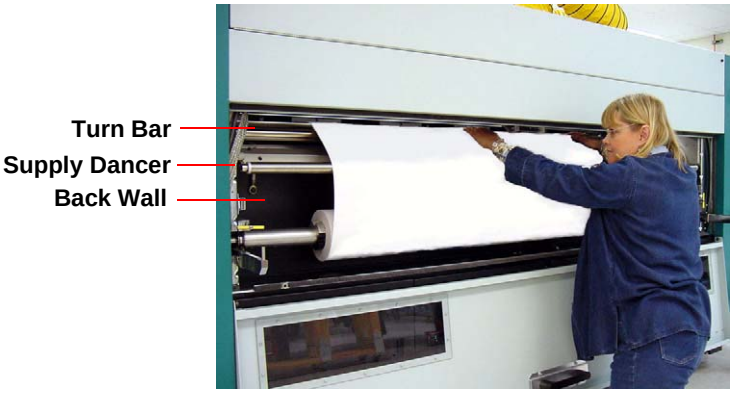


Figure 3-9 Feeding Media Over the Platen

4. Install an empty core on the take-up mandrel, and secure the hubs.

> ***Note:*** Always use a take-up core the same width as the supply media core that is installed.

5. If not already open, gently open the top door completely, and pull the pinch roller handle to disengage the rollers (see Figure 3-10).

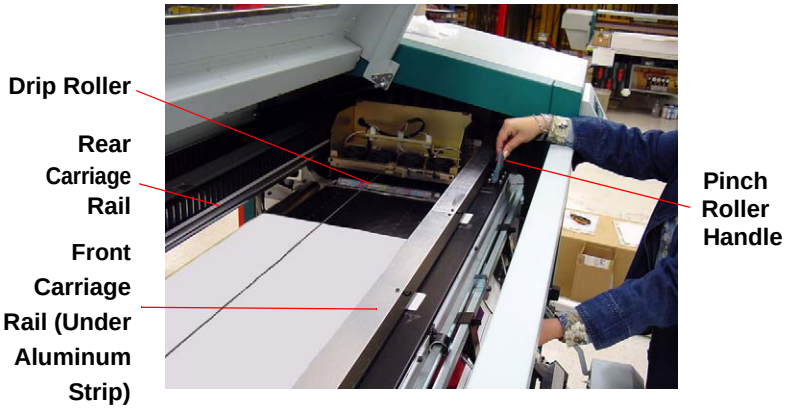


Figure 3-10 Pinch Roller Handle

6. From the front of the printer, push/pull the media towards the drive roll, making sure it passes between the heat deflector and the drive roll (see Figure 3-11). Use the +/- buttons to add more or less media during installation.

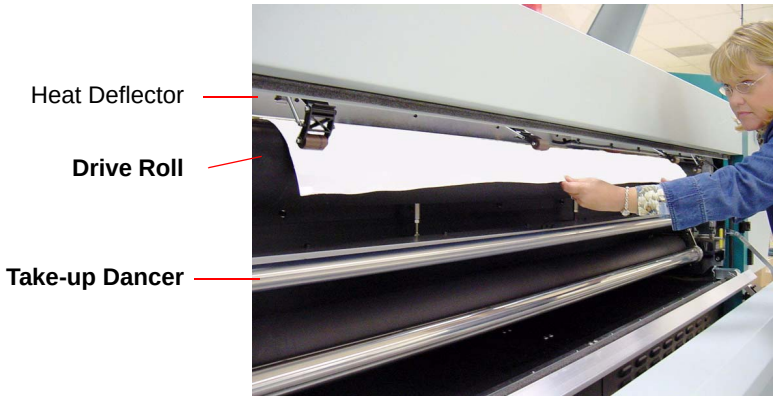


Figure 3-11 Feeding Media Over the Drive Roll

7. Work the media over the front of the take-up dancer and around the back of the take-up core (see Figure 3-12 on page 3-10). Before proceeding to step 8, walk behind the

printer and verify that the left and right edges of the media are straight on the core and that no coning or sliding has occurred.

Figure 3-12 Wrap Media Around the Take-up Core

8. Align the media with the right side take-up core edge, then tape along the core in five places. Tape the leading edge of the media to the core at the right side, the far left side, and in three more places equally spaced in the middle (see Figure 3-13).

Figure 3-13 Align and Tape the Media

9. Turn the take-up core with the taped media one revolution (see Figure 3-14). Engage the pinch roller handle. Only the left and right pinch rollers should touch both the media and the drive roll. Raise up all other pinch rollers.

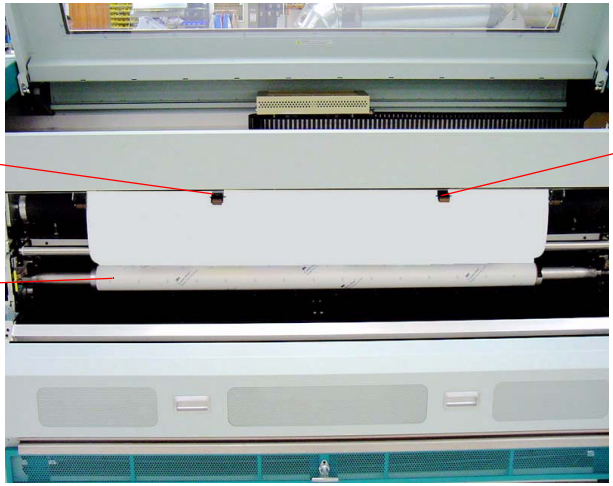


Figure 3-14 Rotate the Take-up Core

10. Close the top cover and the front and rear doors, and press the ACCEPT button on the control panel. You then see:
MEDIA MENU
print side: first side

If you select the first side, go to step 14.

11. Use the +/- buttons to select the second side. You then see:
MEDIA MENU
print side: second side

You only select this option if you are printing the second side of a double-sided image.

12. Press ACCEPT. You then see:
SECOND SIDE
Supply Core OD: (3.10" - 4.0")

Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

13. Press ACCEPT. You then see:
SECOND SIDE
condition media: OFF

Use the +/- buttons to turn media conditioning OFF/ON. The default value is OFF.

Condition Media assists in accurate two-sided printing where the printed media surface tension of the first side affects the printing of the second side. When set ON, the printer advances the media the length of the print and rewinds to the starting point.

14. Press ACCEPT. You then see:
MEDIA MENU
media name

Use the +/- buttons to select the media type you have loaded.

If you select the Other media option, see "Media Types: Other" on page 3-13.

15. Press ACCEPT. You then see:
MEDIA MENU
Takeup Core OD: (3.10" - 4.0")

Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

16. Press ACCEPT. You then see:
MEDIA MENU
conserve media: ON

Use the +/- buttons to turn media conservation ON/OFF. The default value is ON.

When set to ON, the printer rewinds the substrate to minimize waste before printing the next image.

When set to OFF, the printer does not rewind the substrate before printing. This setting should be used for media that is very thin or adhesive backed, which may wrinkle during rewinding or become malformed by the heat required to dry the inks.

17. Press ACCEPT. You then see:
MEDIA MENU
feed adjustment: +/- 0 - 30

Use the +/- buttons to set the feed adjustment from -30 to +30. The default value is 0.

This feature enables the adjustment of media stepping to compensate for variation in media lots and environmental factors. The plus direction lengthens each media step. The minus direction shortens each media step.

18. Press ACCEPT. You then see:
MEDIA MENU
hor. margins: (0.2" - 4.0")

    Use the +/- buttons to adjust the horizontal margins.

19. Press ACCEPT. You then see:
MEDIA MENU
ver. margins: (0.2" - 4.0")

    Use the +/- buttons to adjust the vertical margins.

    Press ACCEPT. You then see:
Sizing media
please wait

    The printer sizes the media. If an error occurs, check the alignments along the media path from the supply to the take-up core.

    If no error occurs, you then see:
Stabilizing media
please wait

    When stabilizing is complete, printer status information is displayed.

Media Types: Other

Selecting OTHER enables additional menus for manual media setup. When changing values, holding the +/- buttons continuously increments or decrements the value repeatedly. Follow the steps below for this media type option:

1. You then see:
MEDIA MENU
Other

2. Press the ACCEPT button. You then see:
MEDIA MENU
thickness: (2.00 - 30.00) mil

    The range for thickness values is 2.00-30.00 mils. The media thickness is typically on the media container label, if any. The media thickness changes by .05 mils.

    Use the +/- buttons to increment or decrement the thickness setting.

3. Press ACCEPT. You then see:
MEDIA MENU
takeup core OD: (3.10" - 4.00")

Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

4. Press ACCEPT. You then see:
MEDIA MENU
supply core OD: (3.10" - 4.00")

   Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

5. Press ACCEPT. You then see:
MEDIA MENU
4-pass servo target temperature: 150F

   The temperature increments or decrements by 1 degree. The maximum temperature setting is 155°F. Use the +/- buttons to change the temperature setting.

6. Press ACCEPT. You then see:
MEDIA MENU
8-pass servo target temperature: 135F

   The temperature increments or decrements by 1 degree. The maximum temperature setting is 155°F. Use the +/- buttons to change the temperature setting.

7. Press ACCEPT. You then see:
MEDIA MENU
conserve media: ON

   Use the +/- buttons to turn media conservation ON/OFF. The default value is ON.

   When set to ON, the printer rewinds the substrate to minimize waste before printing the next image.

   When set to OFF, the printer does not rewind the substrate before printing. This setting should be used for media that is very thin or adhesive backed, which may wrinkle during rewinding or become malformed by the heat required to dry the inks.

8. Press ACCEPT. You then see:
MEDIA MENU
feed adjustment: +/- 0 - 30

   Use the +/- buttons to set the feed adjustment from -30 to +30. The default value is 0.

The feed adjustment feature enables the adjustment of media stepping to compensate for variation in media lots and environmental factors. The plus direction lengthens each media step. The minus direction shortens each media step.

9. Press ACCEPT. You then see:
MEDIA MENU
hor margins: (0.2" - 4.0")

   Use the +/- buttons to select the required horizontal margin value for a job.

10. Press ACCEPT. You then see:
MEDIA MENU
ver margins: (0.2" - 4.0")

   Use the +/- buttons to select the required vertical margin value for a job.

11. Press ACCEPT. You then see:
MEDIA MENU
Halogen Lamps maximum power: (min, low, medium, max)

   Use the +/- buttons to select the required power.

   The default value is max.

   The high heat from the flying IR unit can cause some media to wrinkle at the beginning of a print. The halogen lamps maximum power setting enables the operator to lower the temperature of the flying IR unit to possibly alleviate the wrinkling.

12. Press ACCEPT. You then see:
WRITING GAP
"Other" head gap: optimal/wide

   This option is only selectable during the Load Media process. Use the +/- buttons to set optimal or wide. The default is *optimal*.

   The writing gap wide feature sets the print carriage at its maximum height to accommodate media that may have surface wrinkles. They can lead to carriage strikes, which may result in a ruined print and/or potential print-head damage. For more information see Appendix C on page C-1.

   Press ACCEPT. You then see:
Sizing media
please wait

   The printer sizes the media. If an error occurs, check the alignments along the media path from the supply to the take-up core.

   If no error occurs, you then see:
Stabilizing media
please wait

When stabilizing is complete, printer status information is displayed.

Take-up Roll Reattachment

Follow these steps to remove a partial take-up roll and reattach media to a new empty take-up core:

1. Press the Load Media button. You then see:
   Load Media
   new supply roll?

2. Press the Menu button. You then see:
   Load Media
   reattach takeup?

3. Press the ACCEPT button. You then see:
   Use +/- keys, attach
   takeup, press ACCEPT

   The take-up dancer moves automatically up and out of the way.

4. To unload the partial roll of images, gently open the front door completely.

5. Cut the media below the take-up dancer and remove the take-up mandrel from the printer (see Figure 3-15).

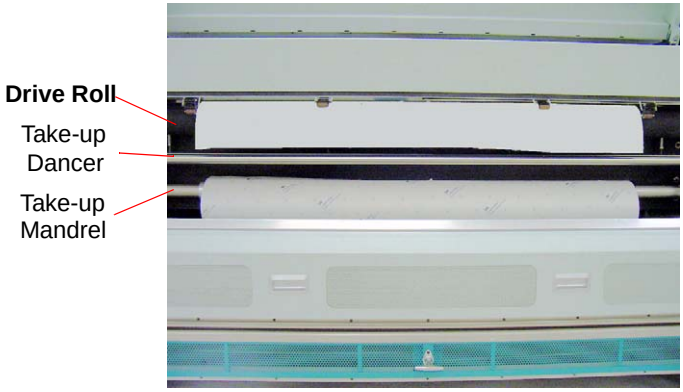


Figure 3-15 Cutting Media Above Take-up Dancer

Note: Avoid cutting into the media drive roller or the Teflon coating on the take-up dancer.

6. After you remove the printed media from the take-up mandrel, install another empty core on the mandrel and secure the hubs.

   Note: Always use a take-up core the same width as the supply media that is installed.

7. Raise the top cover, and pull the pinch roller handle to disengage the rollers (see Figure 3-10 on page 3-9).

8. Work the media over the take-up dancer and around the back of the take-up roll (see Figure 3-12 on page 3-10). Before proceeding to step 9, walk behind the machine and verify that the left edge of the media is straight on the core and that no coning or sliding has occurred.

9. Align the media with the right side take-up core edge, then tape along the core in five places. Tape the leading edge of the media to the core at the right side first, then the far left side, and then in three more places equally spaced in the middle (see Figure 3-13 on page 3-10).

10. Turn the take-up core with the taped media one revolution (see Figure 3-14). Engage the pinch roller handle. Only the left and right pinch rollers should touch both the media and the drive roll. Raise up all other pinch rollers.

11. Close the top cover and the front and rear doors, and press the ACCEPT button on the control panel. You then see:
    Sizing media
    please wait

    The printer sizes the media. If an error occurs, check the alignments along the media path from the supply to the take-up core.

    If no error occurs, you then see:
    Stabilizing media
    please wait

    When stabilizing is complete, printer status information is displayed.

Print & Go Media Installation

Successful media installation is dependent on several factors, including:

- Centering/alignment of the supply media roll on the supply mandrel
- Matching lengths of the supply and take-up cores
- Aligned installation of the supply and take-up cores on the supply and take-up mandrels

- Positioning of the Print & Go external media take-up unit (EMTU) square to the front of the Arizona 600 printer

Inexact installation may result in media encoder errors, the misreading of the media width, media rippling and/or head strikes.

Installing Supply Media

Océ Display Graphics Systems recommends cleaning the media drive roller after each roll of media (see Figure 3-11 on page 3-9 and "Media Drive Roller" on page 5-3).

Océ Display Graphics Systems recommends cleaning the Print & Go drive roll after each roll of media (see Figure 3-16 on page 3-19 and "Media Drive Roller" on page 5-3).

Follow the steps below to install a new supply media roll:

1. Install the supply media on the mandrel (see Figure 3-3 on page 3-3), ensuring that the media is centered (see Figure 3-4 on page 3-4), and secure the locking hubs.

2. Lower the mandrel assembly support arms on both sides of the frame and place the mandrel/media assembly into the machine (see Figure 3-5 on page 3-5). Make sure the mandrel is seated properly on the gear and steel rollers (see Figure 3-6 on page 3-6).

3. Lock the mandrel on both sides of the frame.

4. Gently close the rear door completely.

Loading New Supply Roll

Follow the steps below for loading a new supply media roll:

1. Press the Load Media button. You then see:
   Load Media
   new supply roll?

2. Press ACCEPT. You then see:
   Use +/- keys, attach
   takeup, press ACCEPT

3. Feed the media over the supply dancer and into the vacuum platen area. To keep the media from falling back, gently feed the media down between the back wall and the supply dancer assembly (see Figure 3-9 on page 3-8).

4. Install the Print & Go drive roll and the pinch roller bar into the printer.

5. If not already open, gently open the top door completely, and pull the pinch roller handle to disengage the rollers (see Figure 3-10 on page 3-9).

6. From the front of the printer, push/pull the media towards the drive roller, making sure it passes between the heat deflector and the drive roll (see Figure 3-11 on page 3-9). Use the +/- buttons to add more or less media during installation.

7. Route the media over the take-up dancer, behind the Print & Go drive roll, and up and in-between the pinch roller bar and the Print & Go drive roll (see Figure 3-16 on page 3-19).
   Before proceeding to step 8, walk behind the machine and verify that the left edge of the media is straight on the core and that no coning or sliding has occurred.

Figure 3-16 Media Routing

8. Ensure the media is aligned by lifting the leading edge of the media and align the left edge exactly to the left edge of the media that goes over the front and under the take-up dancer (see Figure 3-17).

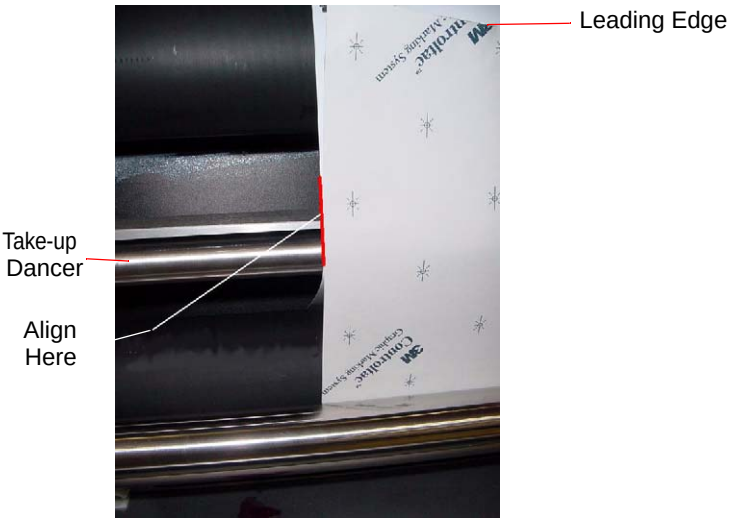


Figure 3-17 Media Edges Aligned

9. Engage the pinch roller handle. Only the left and right pinch rollers should touch both the media and the drive roll. Raise up all other pinch rollers (see Figure 3-14 on page 3-11).

10. Close the IR heater door fully and turn the lock and pull the handle to open the small paper-feed access door below the heater (see Figure 3-18) and (see Figure 3-19).

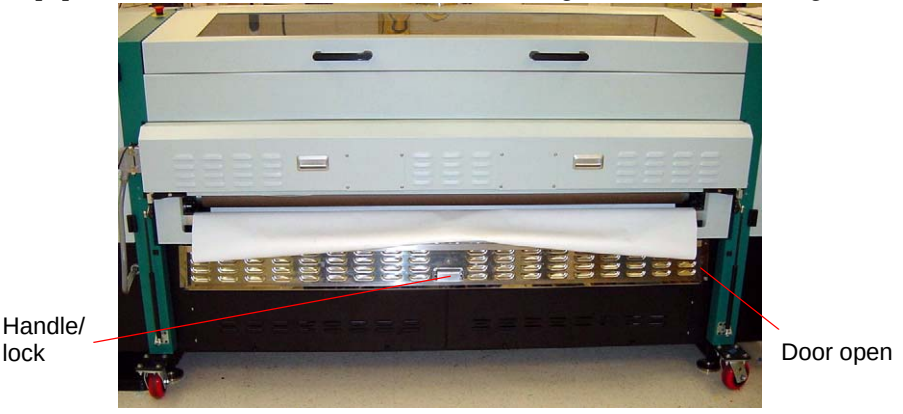


Figure 3-18 Open Paper-Feed Access Door

Figure 3-19 Paper-Feed Access Door Lock and Handle

11. Pull the media through the paper-feed access door with at least one foot of media exposed, and close the door (see Figure 3-20).

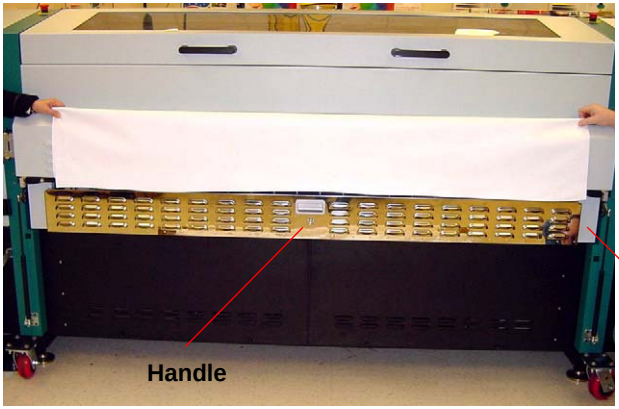


Figure 3-20 Closed Paper-Feed Access Door

Note: Turn the handle clockwise while closing the paper-feed access door.

12. Roll the external media take-up unit (EMTU) into position at the side of each IR door rest and against the front of the printer, ensuring the EMTU is square to the printer. Lock the front wheels (see Figure 3-21).

Figure 3-21 Correct Position of the Left Side of the EMTU

13. Load an empty take-up core the same width as the supply media. Adjust the EMTU hubs left to right as required to align the edges of the core with the edges of the media coming out of the printer, and secure the hubs by tightening the knobs.

14. Pull on both sides of the media evenly. A second person can press the + button to advance the media until you are able to get it over the top of the empty take-up core. Secure the media firmly with tape along the core in five places. Tape the leading edge of the media to the core at the right side, the far left side, and in three more places equally spaced at the middle (see Figure 3-22).

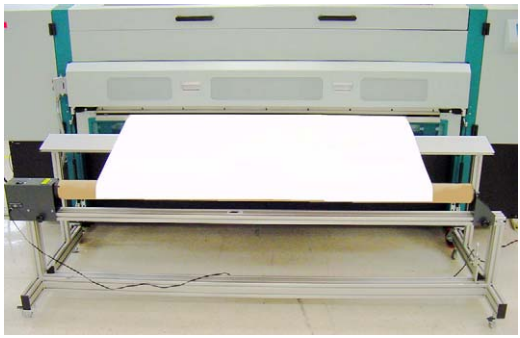


Figure 3-22 Attaching Media to the EMTU Core

15. Turn the take-up core with the taped media one full revolution.

16. Close the top cover and the front and rear doors, and press the ACCEPT button on the control panel. You then see:
PRINT SIDE
print side: first side

    If you select the first side, go to step 20.

17. Use the +/- buttons to select the second side. You then see:
PRINT SIDE
print side: second side

    You only select this option if you are printing the second side of a double-sided image.

18. Press ACCEPT. You then see:
SECOND SIDE
Supply Core OD: (3.10" - 4.0")

    Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

19. Press ACCEPT. You then see:
SECOND SIDE
condition media: OFF

Use the +/- buttons to turn media conditioning OFF/ON. The default value is OFF.

CONDITION MEDIA assists in accurate two-sided printing where the printed media surface tension of the first side affects the printing of the second side. When set ON, the printer advances the media the length of the print and rewinds to the starting point.

20. Press ACCEPT. You then see:
MEDIA MENU
media name

Use the +/- buttons to select the media you have loaded. If you select the Other media type, see "Media Types: Other" on page 3-25.

21. Press ACCEPT. You then see:
MEDIA MENU
Takeup Core OD: (3.10" - 4.0")

Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

22. Press ACCEPT. You then see:
MEDIA MENU
conserve media: ON

Use the +/- buttons to turn media conservation ON/OFF. The default value is ON.

When set to ON, the printer rewinds the substrate to minimize waste before printing the next image.

When set to OFF, the printer does not rewind the substrate before printing. This setting should be used for media that is very thin or adhesive backed, which may wrinkle during rewinding or become malformed by the heat required to dry the inks.

23. Press ACCEPT. You then see:
MEDIA MENU
feed adjustment: +/- 0 - 30

Use the +/- buttons to set the feed adjustment from -30 to +30. The default value is 0.

This feature enables the adjustment of media stepping to compensate for variation in media lots and environmental factors. The plus direction lengthens each media step. The minus direction shortens each media step.

24. Press ACCEPT. You then see:
MEDIA MENU
hor margins: (0.2" - 4.0")

    Use the +/- buttons to select the required horizontal margin value for a job.

25. Press ACCEPT. You then see:
MEDIA MENU
ver margins: (0.2" - 4.0")

    Use the +/- buttons to select the required vertical margin value for a job.

26. Press ACCEPT. You then see:
Sizing media
please wait

    The printer sizes the media. If an error occurs, check the alignments along the media path from the supply to the take-up core.

    If no error occurs, you then see:
MEDIA MENU
media delivery mode: roll to roll or Print & Go

    Use the +/- buttons to select Print & Go.

27. Press ACCEPT. You then see:
Stabilizing media
please wait

    When stabilizing is complete, printer status information is displayed.

Media Types: Other

Selecting OTHER enables additional menus for manual media setup. When changing values, holding the +/- buttons continuously increments or decrements the value repeatedly. Follow the steps below for this media type option:

1. You then see:
MEDIA MENU
Other

2. Press the ACCEPT button. You then see:
MEDIA MENU
thickness: (2.00 - 30.00) mil

    The range for thickness values is 2.00-30.00 mils. The media thickness is typically on the media container label, if any. The media thickness changes by .05 mils.

    Use the +/- buttons to increment or decrement the thickness setting.

3. Press ACCEPT. You then see:
MEDIA MENU
takeup core OD: (3.10" - 4.00")

   Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

4. Press ACCEPT. You then see:
MEDIA MENU
supply core OD: (3.10" - 4.00")

   Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

5. Press ACCEPT. You then see:
MEDIA MENU
4-pass servo target temperature: 150F

   The temperature increments or decrements by 1 degree. The maximum temperature setting is 155°F. Use the +/- buttons to change the temperature setting.

6. Press ACCEPT. You then see:
MEDIA MENU
8-pass servo target temperature: 135F

   The temperature increments or decrements by 1 degree. The maximum temperature setting is 155°F. Use the +/- buttons to change the temperature setting.

7. Press ACCEPT. You then see:
MEDIA MENU
conserve media: ON

   Use the +/- buttons to turn media conservation ON/OFF. The default value is ON.

   When set to ON, the printer rewinds the substrate to minimize waste before printing the next image.

   When set to OFF, the printer does not rewind the substrate before printing. This setting should be used for media that is very thin or adhesive backed, which may wrinkle during rewinding or become malformed by the heat required to dry the inks.

8. Press ACCEPT. You then see:
MEDIA MENU
feed adjustment: +/- 0 - 30

Use the +/- buttons to set the feed adjustment from -30 to +30. The default value is 0.

The feed adjustment feature enables the adjustment of media stepping to compensate for variation in media lots and environmental factors. The plus direction lengthens each media step. The minus direction shortens each media step.

9. Press ACCEPT. You then see:
MEDIA MENU
hor margins: (0.2" - 4.0")

Use the +/- buttons to select the required horizontal margin value for a job.

10. Press ACCEPT. You then see:
MEDIA MENU
ver margins: (0.2" - 4.0")

Use the +/- buttons to select the required vertical margin value for a job.

11. Press ACCEPT. You then see:
MEDIA MENU
Halogen Lamps maximum power: (min, low, medium, max)

Use the +/- buttons to select the required power.

The default value is max.

The high heat from the flying IR unit can cause some media to wrinkle at the beginning of a print. The halogen lamps maximum power setting enables the operator to lower the temperature of the flying IR unit to possibly alleviate the wrinkling.

12. Press ACCEPT. You then see:
WRITING GAP
“Other” head gap: optimal/wide

This option is only selectable during the Load Media process. Use the +/- buttons to set optimal or wide. The default is *optimal*.

The WRITING GAP WIDE feature sets the print carriage at its maximum height to accommodate media that may have surface wrinkles. They can lead to carriage strikes, which may result in a ruined print and/or potential print-head damage. For additional information, see Appendix C on page C-1.

13. Press ACCEPT. You then see:
Sizing media
please wait

The printer sizes the media. If an error occurs, check the alignments along the media path from the supply to the take-up core.

If no error occurs, you then see:
MEDIA MENU
media delivery mode: roll to roll or Print & Go

Use the +/- buttons to select Print & Go.

14. Press ACCEPT. You then see:
Stabilizing media
please wait

When stabilizing is complete, printer status information is displayed.

EMTU Take-up Roll Reattachment

Follow these steps to remove a partial take-up roll and reattach media to a new empty take-up core:

1. Press the ADVANCE MEDIA button once, and press the + button until at least one foot of media is exposed through the paper-feed access door after the media is cut.

2. Press the CANCEL button to ensure the media does not rewind at step 4.

3. Cut the media so that at least one foot of media is exposed through the paper-feed access door, and remove the partial take-up roll.

4. Press the LOAD MEDIA button. You then see:
Load Media
new supply roll?

5. Press the MENU button. You then see:
Load Media
reattach takeup?

6. Press the ACCEPT button. You then see:
Use +/- keys, attach
takeup, press ACCEPT

7. Load an empty take-up core the same width as the supply media. Adjust the EMTU hubs left to right as required to align the edges of the core with the edges of the media coming out of the printer, and secure the hubs by tightening the knobs.

8. Pull on both sides of the media evenly. A second person can press the + button to advance the media until you are able to get it over the top of the empty take-up core. Secure the media firmly with tape along the core in five places. Tape the leading edge of the media to the core at the right side, the far left side, and in three more places equally spaced at the middle (see Figure 3-22 on page 3-23).

9. Turn the take-up core with the taped media one revolution.

10. Press ACCEPT. You then see:
Sizing media
please wait

The printer sizes the media. If an error occurs, check the alignments along the media path from the supply to the take-up core.

If no error occurs, you then see:
MEDIA MENU
media delivery mode: roll to roll or Print & Go

Use the +/- buttons to select Print & Go.

11. Press ACCEPT. You then see:
Stabilizing media
please wait

When stabilizing is complete, printer status information is displayed.

4 Control Panel

Overview

The control panel (see Figure 4-1) sends and returns information to and from the Arizona 600 printer. Through the control panel, you set up the user-controllable options. These are organized into four major sections: Copies/Reprints, Operator, Ink Menu, and Configure I/O.

Figure 4-1 Control Panel

Control Panel Buttons

The MENU button (see Figure 4-2) steps through the available submenus in the menu tree without selecting them. Starred items indicate current settings. When you locate the required submenu, press the ACCEPT button (see Figure 4-4).

Figure 4-2 Menu Button

The - and + buttons (see Figure 4-3) enable you to change your menu selection or increase or decrease numerical values for that menu.

Figure 4-3 Minus and Plus Buttons

The ACCEPT button (see Figure 4-4) enables you to confirm or enter your selection for that menu.

Figure 4-4 Accept Button

The LOAD MEDIA button (see Figure 4-5) enables you to load new media or reattach media to the take-up core. This button also enables you to navigate backwards through the menu tree when in any submenu.

Figure 4-5 Load Media Button

The ADVANCE MEDIA button (see Figure 4-6) enables you to move media forward or backward with the -/+ buttons.

Figure 4-6 Advance Media Button

The ONLINE button (see Figure 4-7) enables you to enter or exit the submenus and return to printer online, as indicated by a solid green status LED.

Figure 4-7 Online Button

The CANCEL button (see Figure 4-8) enables you to exit lower menus and return to the top-level menu. The button is also used to cancel a print.

Figure 4-8 Cancel Button

Cancel Printing

In roll-to-roll mode, a print job can be cancelled using the following steps:

1. Press the Cancel button. You then see:
   press '-' to cancel
2. Press the - button. You then see:
   CANCELLING PRINT

In Print & Go mode, a print job can be cancelled using the following steps:

1. Press the Cancel button. You then see:
   press '-' to cancel
2. Press the - button. You then see:
   cancel: image name
3. Press the Cancel button. You then see:
   Dry canceled print first[N/Y]? [-/+]

   Pressing the - button cancels the drying process. If another print job is in the queue, the print process for the queued print job begins.

   Pressing the + button continues the drying process. You then see:
   drying: image name

Important: If the operator cancels a print before the drying cycle is complete, the media must not be advanced. Otherwise, ink will be transferred to the lower black roller.

Caution:

If a cancelled print is followed by a print being processed for a faster print speed, the initial print must be allowed to dry to prevent smudging and ink lift-off. For example, if an 8-pass print is cancelled and followed by a 2-pass or 4-pass print, the ink from the 8-pass print may remain wet, lift onto the take-up roller, and transfer to the subsequent print. This condition can be prevented by allowing the 8-pass print to dry.

Status Lights

Status lights provide information about the current configuration and the state of the printer.

- ERROR - Indicates a printer problem has occurred.
- MEDIA LOW - Indicates that media supply is below 50 feet.
- ONLINE - Indicates four status conditions:
  - Solid, ready to receive a print job or keypad input
  - Slow blink, printing
  - Fast blink, receiving a print job
  - Off, offline

Navigating from the Main Menu

Four main control panel submenus control specific functions on the printer: Copies/Reprints, Operator, Ink Menu, and Configure I/O.

The entire menu structure can be printed using the Print Menu Tree function (see "Print Menu Tree" on page 4-13).

Copies/Reprints

This menu (see "Copies/Reprints Menu" on page A-2) controls the number of copies and specifies the spacing between copies made during each print job. You can also reprint copies of a previous printed image. An on-board hard drive enables multiple images to be saved and accessed through the control panel without reprocessing and resending the print from the processing workstation.

Reprint Copies of a Previously Printed Image

Copies of a previously printed image can be reprinted using the following steps:

1. Navigate to:
   MAIN MENU
   copies/reprints

2. Press the ACCEPT button. You then see:
   REPRINTS: [0] filename
   speed, overlap, dir, res x res, width x length

   Use the +/- buttons to select a previously printed image.

3. Press ACCEPT. You then see:
   REPRINTS
   position: (right, center, or left)

   Use the +/- buttons to select the required position.

4. Press ACCEPT. You then see:
   REPRINTS
   # reprints: XXX

   Use the +/- buttons to select the total number of copies (1-300). If multiple copies are selected, go to step 5. If one copy is selected, go to step 6.

5. Press ACCEPT. You then see:
   SPACING
   vert=(0.00 - 0.20" to 8.98 - 9.18")

   Use the +/- buttons to set the vertical spacing amount in inches between images.

6. Press ACCEPT. The selected image begins printing.

   If the media is narrower than the image, the following message is issued:
   WARNING: Media too NARROW
   CURRENT: xx", Required: xx

7. Press CANCEL. You then see:
   WARNING: Media too NARROW
   Press - to cancel

8. Press the - button to cancel the print.

Operator

The Operator menu provides access to the following submenus:

- Print Parameters - Contains the job statistics (On or Off), minimal maintenance during print (Off or On), and double print (Off or On) submenus (see Figure A-2 on page A-3).
- Test Prints - Contains the nozzle, configuration, color bars, and menu tree test prints (see "Test Prints Menu" on page A-4).
- Maintenance - Contains the access carriage, park carriage, high, low, long and mini purge nozzles submenus. Also includes the spit heads, pump solvent, fill reservoir, and barcode practice submenus (see "Maintenance Menu (Part 1)" on page A-5 and "Maintenance Menu (Part 2)" on page A-6).
- Media Menu - Contains menus for supply media selection and setup (see "Media Menu" on page A-7).
- About Printer - Enables you to view the total media printed in linear feet/meters, firmware version, firmware build date/time, printer serial number, and boot ROM version (see "About Printer Menu" on page A-8).
- Units - Selects between English or metric units (see "Units Menu" on page A-9).
- Set Clock - Sets up the printer date and time (see "Set Clock Menu" on page A-10).

Print Parameters

The Print Parameters menu sets up the basics of the print job, the controls for the image margins, and the statistics for the job.

Follow these steps to use the Print Parameters menus:

1. Navigate to:
   MAIN MENU
   operator

2. Press the ACCEPT button. You then see:
   OPERATOR
   print parameter

3. Press ACCEPT. You then see:
   PRINT PARAMETERS
   Statistics Menu: (on or off)

   When the statistics menu is set to ON, the printer prints a set of job statistics in the white space below the print area. Use the +/- buttons to turn statistics ON or OFF.

4. Press ACCEPT. You then see:
   PRINT PARAMETERS
   minimal maintenance during print: ON

   Use the +/- buttons to change the minimal maintenance during print setting to OFF. The default setting is ON.

   The minimal maintenance ON setting is the recommended setting and typically gives the best results.

   The minimal maintenance OFF setting uses different maintenance routines during printing.

   You may want to try minimal maintenance OFF if you are having excessive overspray or nozzle dropout.

   When disabled, the "[Min Maint: OFF]" message is included in the print statistics line and is displayed on the operator panel.

5. Press ACCEPT. You then see:
   PRINT PARAMETERS
   double print: OFF

   Use the +/- buttons to change the double print setting to ON. The default setting is OFF.

   When the double print function is enabled (ON), the media is rewound and reprinted following the initial printing of the image. Prior to the second print, the

Arizona 600 printer pauses to enable the operator to accurately align the media for the second print. This feature is applicable for very dark images where the media is not able to hold and dry the volume of ink required to produce acceptable output. When enabled, the "[Double Print: ON]" message is included in the print statistics line.

Note: Cancellation of the print is not allowed in both roll-to-toll and Print & Go modes during the drying cycle if the double print function is enabled.

6. Press ACCEPT. You then see:
OPERATOR
print parameters

Job Statistics List

When the menu is set to ON, the printer prints a set of job statistics in the white space outside the print area along the width of the print. Depending on the color order in the printer, the job statistics line is either printed in black or cyan. The statistics line is approximately 17.75 inches wide and is cut off if the image width is shorter. The line also appears larger than the Onyx PosterShop job statistics line, if selected by the software. The following is a sample of the job statistics output:

Name	Example
■ Job:	Job Name.ONX
■ Media Type:	Media Name
■ Overlap:	8-pass (or 4-pass)
■ Write Dir.:	bidir
■ Resolution:	Stochastic
■ Colors:	6 colors
■ Print Zone:	89F
■ IR Sensor:	155F
■ Version:	3.x
■ Height:	0.30 ft.
■ Width:	64 in.
■ Printed:	27-Aug-04 16:58 (Day-Month-Year Time)
■ Received:	27-Aug-04 08:34
■ Print Time:	05:16
■ SN:	801xxx

Additional lines will appear in the statistics output when the following options are activated:

- Head Gap: WIDE
- Min Maint: OFF

- Double Print: ON
- Speed: Accelerated

Test Prints

The Test Prints menu enables you to print four documents stored in the Arizona 600 printer:

- Nozzle print
- Configuration print
- Color bars print
- Menu tree print

Nozzle Print

The Nozzle Print menu provides you with information on missing nozzles (see Figure 4-9). The pattern may indicate that maintenance might be required. (No gaps occur between the color sets on an actual Nozzle Print.)

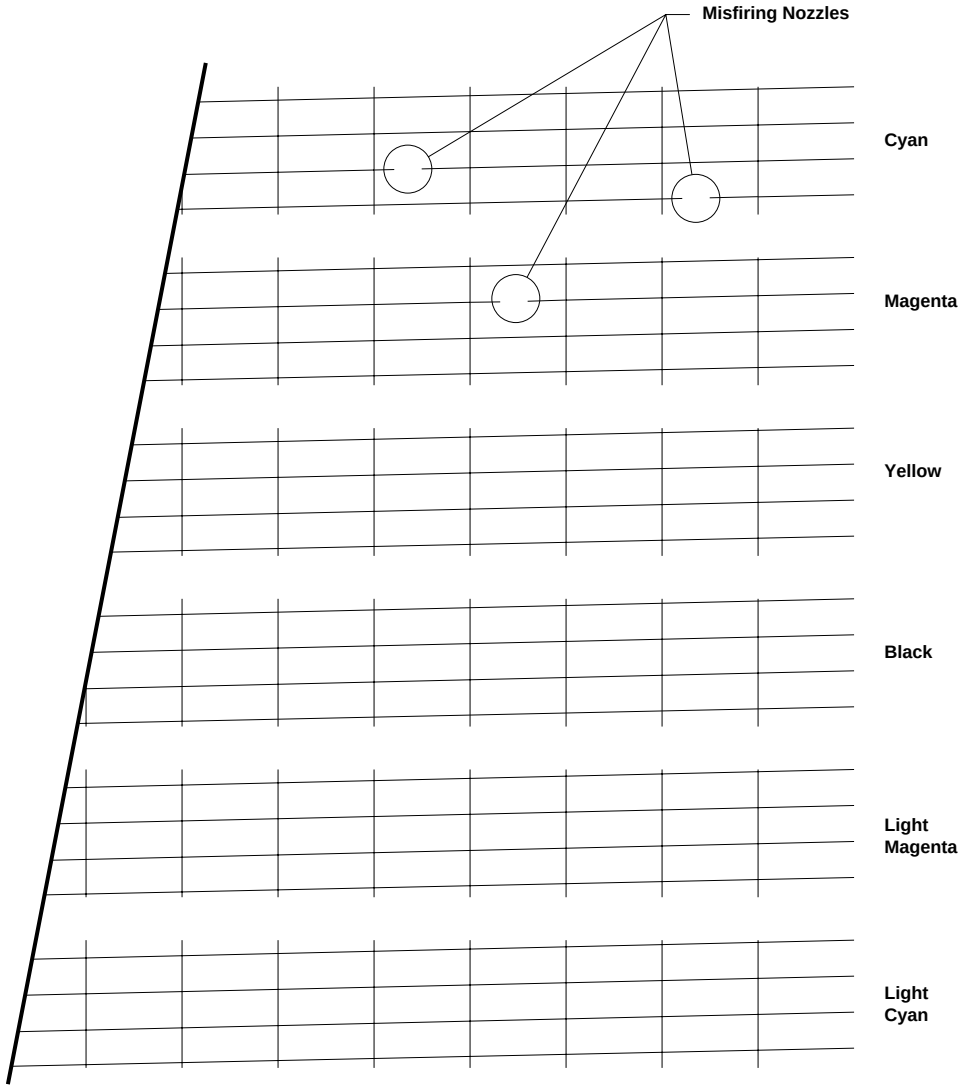


Figure 4-9 Nozzle Print

Follow these steps to print the Nozzle Print (see Figure 4-9):

1. Navigate to:
   MAIN MENU
   operator

2. Press the ACCEPT. You then see:
   OPERATOR
   print parameters

3. Press MENU. You then see:
   OPERATOR
   test prints

4. Press ACCEPT. You then see:
   TEST PRINTS
   nozzle print

5. Press ACCEPT. You then see:
   NOZZLE PRINT
   (1 - 100) pass

   Use the +/- buttons to select the number of passes from 1 to 100.

6. Press ACCEPT. The Nozzle Print begins printing.

Configuration Print

The Configuration Print menu provides the operator and Océ Display Graphics Systems service technicians with machine-settings data if the unit must be diagnosed or recalibrated. A configuration print of factory settings should be stored in one of the bays.

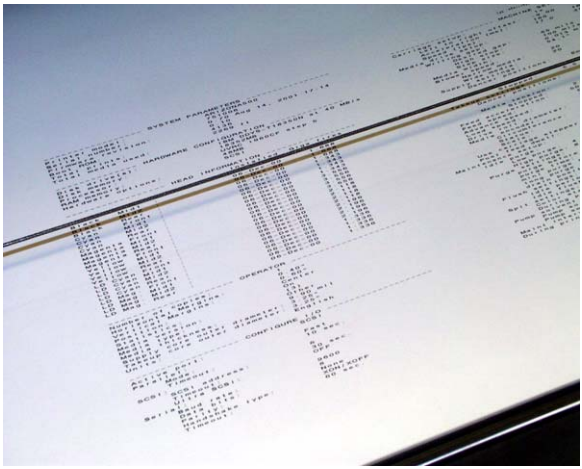


Figure 4-10 Configuration Print

Follow these steps to print the configuration print:

1. Navigate to:
   TEST PRINTS
   nozzle print

2. Press the MENU button. You then see:
   TEST PRINTS
   configuration print

3. Press the ACCEPT button. You then see:
   CONFIGURATION PRINT
   position: (right, center, or left)

   Use the +/- buttons to select the required position.

4. Press ACCEPT. The Configuration Print begins printing.

Color Bars

The Color Bars menu prints a set of color bars. The eleven color bars start with Light Magenta and end with Black. Use the color bars to diagnose and calibrate printer inks for optimal performance. Follow these steps to print the color bars:

1. Navigate to:
   TEST PRINTS
   nozzle print

2. Press the MENU button twice. You then see:
   TEST PRINTS
   color bars

3. Press ACCEPT. You then see:
   COLOR BARS
   overlap: (2, 4, or 8-pass)

   Use the +/- buttons to select the number of passes.

4. Press ACCEPT. You then see:
   COLOR BARS
   dir: (bidir L<->R, unidir L<-R, unidir L->R)

   Use the +/- buttons to set the write direction.

5. Press ACCEPT. You then see:
   COLOR BARS
   position: (left, center, or right)

   Use the +/- buttons to set the required position.

6. Press Accept. You then see:
   COLOR BARS
   print width: (8.0" - 70.0")

   Use the +/- buttons to set print width (8.0 in. - 70.0 in.).

7. Press ACCEPT. You then see:
   COLOR BARS
   (1 - 10) pass

   Use the +/- buttons to select the number of passes.

8. Press ACCEPT. The Color Bars begins printing.

Print Menu Tree

The Print Menu Tree menu prints the entire menu tree structure. Follow these steps to print the menu tree:

1. Navigate to:
   TEST PRINTS
   nozzle print

2. Press the MENU button three times. You then see:
   TEST PRINTS
   print menu tree

3. Press ACCEPT. The Menu Tree begins printing.

Maintenance

The Maintenance menu (see "Maintenance Menu (Part 1)" on page A-5) contains several maintenance submenus. These maintenance submenus may need to be performed periodically in addition to the automated maintenance that occurs without direct operator intervention. Refer to the "Operator Maintenance Schedule" on page 5-2 for additional information and routine maintenance required on the Arizona 600 printer.

Several maintenance functions can be selected from the front panel menus when the machine is idle or while printing.

Warning:

Media must be installed prior to performing these functions.

For purge functions, a list of colors to be purged is presented for selection, for example:

INKS TO LOW PURGE
C M Y K LM LC

With this initial setting, all six colors are designated to be purged.

The underscore indicates the color that is the current active item of the list of colors. Pressing + moves the underscore to the right. Pressing - replaces the letter with a bar. For example, when C is underscored, pressing - changes the list to:

– M Y K LM LC

If you press ACCEPT at this setting, the color cyan is excluded from the purge.

The following setting purges the colors magenta, yellow, black, and light magenta:

– M Y K LM–

Access Carriage

The Access Carriage menu enables the operator to position the carriage over the blotting station for cleaning the heads. Positioning is important when the operator must conduct maintenance procedures on the carriage assembly. Do not leave the carriage away from the home position over the capping station for long periods of time. The ink dries and causes the nozzles to be blocked.

Warning:

Do not use the Access Carriage function during printing. Doing so causes the printer to lock, requiring a reboot to continue working.

Follow these steps to access the carriage:

1. Navigate to:
   MAIN MENU
   operator

2. Press the ACCEPT button. You then see:
   OPERATOR
   print parameters

3. Press the MENU button twice. You then see:
   OPERATOR
   maintenance

4. Press the ACCEPT button. You then see:
   MAINTENANCE
   access carriage

5. Press the ACCEPT button. You then see:
   ACCESS CARRIAGE
   'ACCEPT' to start

6. Press the ACCEPT button. You then see:
   Moving Carriage
   please wait

   The carriage moves to a position over the blotting station. You then see step 3 below.

Park Carriage

The Park Carriage menu enables the operator to move the carriage back to the home position or over the capping station. Follow these steps to park the carriage:

1. Navigate to:
   MAINTENANCE
   access carriage

2. Press the MENU button. You then see:
   MAINTENANCE
   park carriage

3. Press the ACCEPT button. You then see:
   PARK CARRIAGE
   'ACCEPT' to start

4. Press ACCEPT. You then see:
   Parking Carriage
   please wait

   The carriage moves to the home position over the capping station.

High Purge Nozzles.

Warning:

Media must be installed prior to performing this function.

The carriage moves slightly to align with the drain holes in the capping station. The purge pressure is elevated. This process may take as long as 30 seconds. The purge is then performed. If multiple purges are requested, a pause occurs between purges to allow the ink to refill. A blot at the maintenance station is performed after the purge to clean the nozzle plate. If the printer was idle, a nozzle print follows the blot. Follow these steps to perform a high purge:

1. Navigate to:
   MAINTENANCE
   park carriage

2. Press the MENU button. You then see:
   MAINTENANCE
   high purge nozzles

3. Press ACCEPT. You then see:
   Inks to High Purge
   number of purges: (1-10)

   Press +/- to select the number of purges to be performed (no more than two are recommended).

4. Press ACCEPT. You then see:
   Inks to High Purge
   C M Y K LM LC

   Use the +/- buttons to select the required color or colors to high purge.

5. Press ACCEPT to begin purging. The **Cleaning Nozzles please wait** and **Printing Nozzles Test please wait** messages are displayed during the purge process.

Low Purge Nozzles.

Warning:

Media must be installed prior to performing this function.

A low purge is the same as a high purge, except a lower pressure is used. No multi-purge capability is available with the low purge. A blot at the maintenance station is performed after the purge to clean the nozzle plate. If the printer was idle, a nozzle print follows the blot. Follow these steps to perform a low purge:

1. Navigate back to:
   MAINTENANCE
   high purge nozzles

2. Press the MENU button. You then see:
   MAINTENANCE
   low purge nozzles

3. Press the ACCEPT button. You then see:
   INKS TO LOW PURGE
   C M Y LM LC

   Use the +/- buttons to select the required color or colors to low purge.

4. Press ACCEPT to begin purging. The **Cleaning Nozzles please wait** and **Printing Nozzles Test please wait** messages are displayed during the purge process.

Mini Purge Nozzles.

Warning:

Media must be installed prior to performing this function.

The carriage is moved to the blotting station, and a low-pressure purge is performed while the nozzle plate is in contact with the blotting cloth. A blot and a spit occur after each mini purge. Follow these steps to perform a mini purge:

1. Navigate to:
   MAINTENANCE
   low purge nozzles

2. Press the MENU button. You then see:
   MAINTENANCE
   mini purge nozzles

3. Press the ACCEPT button. You then see:
   INKS TO MINI PURGE
   C M Y K LM LC

   Use the +/- buttons to select the required color or colors to mini purge.

4. Press ACCEPT to begin purging. The **Cleaning Nozzles please wait** message is displayed during the purge process.

Spit Heads

The carriage is moved to the blotting station and the heads are fired. The nozzle plate is not in contact with the blotting cloth. Follow these steps to perform a spit:

1. Navigate to:
   MAINTENANCE
   mini purge nozzles

2. Press the MENU button. You then see:
   MAINTENANCE
   spit heads

3. Press the ACCEPT button. You then see:
   Spitting Heads
   please wait

Long Purge Nozzles

Warning:

Media must be installed prior to performing this function.

A long purge is the same as a low purge, except a nozzle print never follows the long purge. Follow these steps to perform a long purge:

1. Navigate to:
   MAINTENANCE
   spit heads

2. Press the MENU button. You then see:
   MAINTENANCE
   long purge nozzles

3. Press the ACCEPT button. You then see:
   INKS TO LONG PURGE
   C M Y K LM LC

   Use the +/- buttons to select the color or colors to long purge.

4. Press ACCEPT to begin purging. You then see:
   Cleaning Nozzles
   please wait

Pump Cleaning Fluid/Capping Fluid

During normal operation, cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) is automatically pumped to the sponges in the capping station. Follow these steps to perform a manual pumping of cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks):

1. Navigate to:
   MAINTENANCE
   long purge nozzles

2. Press the MENU button. You then see:
   MAINTENANCE
   pump solvent

3. Press the ACCEPT button to pump cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks). You then see:

MAINTENANCE
fill reservoir

You will hear the waste pump running longer than the solvent pump.

Fill Reservoir

Follow these steps to manually fill a selected ink reservoir:

1. Navigate to:
   MAINTENANCE
   pump solvent

2. Press the MENU button. You then see:
   MAINTENANCE
   fill reservoir

3. Press the ACCEPT button. You then see:
   FILL RESERVOIR
   [color]

   Use the +/- buttons to select the required color to fill the ink reservoir.

4. Press ACCEPT. You then see:
   FILLING [color]: XXX
   press CANCEL to stop

   The filling process automatically stops when the ink reservoir is full.

   If you cancel before the reservoir is full, you then see:
   FILL RESERVOIR
   [color]

   Another color can be selected for filling.

5. Press the CANCEL button twice. You then see:
   MAINTENANCE
   bar code practice

Bar Code Practice

The Bar Code Practice menu enables you to practice swiping an ink bottle barcode with the wand attached to the printer. The wand must be held at a certain angle and moved side-to-side over the barcode at a consistent speed. Listen for the audio beep confirmation from the control panel. One beep is a positive read. Two beeps is a negative read. Bar code swiping is required when a new or existing ink bottle is installed.

To set up the Bar Code Practice menu, refer to the menu tree. Follow these steps to practice scanning the bar code:

1. Navigate to:
   MAINTENANCE
   fill reservoir

2. Press the MENU button. You then see:
   MAINTENANCE
   barcode practice

3. Press the ACCEPT button. You then see:
   BARCODE PRACTICE
   Press ACCEPT to Continue

4. Press ACCEPT. You then see:
   Scan the barcode
   Accept->Manual Entry

5. Scan the ink barcode found on the side of the bottle. Listen for the sound prompts; single tone signifies that the barcode scan was successful whereas a double tone signifies an unsuccessful scan. Check the control panel after a successful scan and complete the ink bottle installation process. The tip of the barcode should run evenly across the width of the barcode including some portion of the white space. Go to the next step to enter it manually when scanning is unsuccessful.

6. Press ACCEPT. You then see:
   BAR CODE
   ->->->->->->->->->->

   For manual entry, use the +/- buttons to select one symbol or letter as shown below the bar code on the ink bottle and press ACCEPT. Repeat this process until all symbols and letters are entered.

7. Press the ACCEPT button, or press the CANCEL button. You then see:
   OPERATOR
   maintenance

Media Menu

The Media menu enables an operator to change the type of media selected during media load or specify other media settings.

Selecting the Media Type

The label on the end of the supply media box states the media type. If the correct media was not selected during media load, follow these steps to select the media you loaded:

1. Navigate to:
   MAIN MENU
   operator

2. Press the ACCEPT button. You then see:
   OPERATOR
   print parameters

3. Press the MENU button four times. You then see:
   OPERATOR
   media menu

4. Press ACCEPT. You then see:
   MEDIA MENU
   Media table version: XXX

   The media table contains the printer set-up values that are implemented when a media is selected through the Media Type submenu. The version is updated by a separate file that typically accompanies a new firmware version.

5. Press ACCEPT. You then see:
   MEDIA MENU
   print side: first side

   If you select the first side, go to step 9.

6. Use the +/- buttons to select the second side. You then see:
   MEDIA MENU
   print side: second side

   You only select this option if you are printing the second side of a double-sided image.

7. Press ACCEPT. You then see:
   SECOND SIDE
   supply core OD: (3.10" - 4.0")

   Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

8. Press ACCEPT. You then see:
SECOND SIDE
condition media: OFF

   Use the +/- buttons to turn media conditioning OFF/ON. The default value is OFF.

   Condition Media assists in accurate two-sided printing where the printed media surface tension of the first side affects the printing of the second side. When set ON, the printer advances the media the length of the print and rewinds to the starting point.

9. Press ACCEPT. You then see:
MEDIA MENU
media name

   Use the +/- buttons to select the media you have loaded.

   If you select the Other media type, see "Media Type: Other" on page 4-23.

10. Press ACCEPT. You then see:
MEDIA MENU
takeup core OD: (3.10" - 4.0")

    Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

11. Press ACCEPT. You then see:
MEDIA MENU
conserve media: ON

    Use the +/- buttons to turn media conservation ON/OFF. The default value is ON.

    When set to ON, the printer rewinds the substrate to minimize waste before printing the next image.

    When set to OFF, the printer does not rewind the substrate before printing. This setting should be used for media that is very thin or adhesive backed, which may wrinkle during rewinding or become malformed by the heat required to dry the inks.

12. Press ACCEPT. You then see:
MEDIA MENU
feed adjustment: +/- 0 - 30

    Use the +/- buttons to set the feed adjustment from -30 to +30. The default value is 0.

This feature enables the adjustment of media stepping to compensate for variation in media lots and environmental factors. The plus direction lengthens each media step. The minus direction shortens each media step.

13. Press ACCEPT. You then see:
MEDIA MENU
hor margins: (0.2" - 4.0")

    Use the +/- buttons to select the required horizontal margin value for a job.

14. Press ACCEPT. You then see:
MEDIA MENU
ver margins: (0.2" - 4.0")

    Use the +/- buttons to select the required vertical margin value for a job.

15. Press ACCEPT. You then see:
MEDIA MENU
[media name]

Media Type: Other

Selecting OTHER enables additional menus for manual setup. When changing values, holding the +/- buttons continuously increments or decrements the value repeatedly. Follow the steps below for this media type option:

1. Navigate to:
MEDIA MENU
Other

2. Press the ACCEPT button. You then see:
MEDIA MENU
thickness: (2.00 - 30.00) mil

    The range for thickness values is 2.00-30.00 mils. The media thickness is typically on the media container label, if any. The media thickness changes by .05 mils.

    Use the +/- buttons to increment or decrement the thickness setting.

3. Press ACCEPT. You then see:
MEDIA MENU
takeup core OD: (3.10" - 4.00")

    Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

4. Press ACCEPT. You then see:
MEDIA MENU
supply core OD: (3.10" - 4.00")

   Use the +/- buttons to enter the correct core diameter. The value is increased or decreased in .01-inch increments. If you do not know the diameter, use a ruler and measure the outside diameter of the core, and enter the value in this submenu.

5. Press ACCEPT. You then see:
MEDIA MENU
4-pass servo target temperature: 150F

   The temperature increments or decrements by 1 degree. The maximum temperature setting is 155°F. Use the +/- buttons to change the temperature setting.

6. Press ACCEPT. You then see:
MEDIA MENU
8-pass servo target temperature: 135F

   The temperature increments or decrements by 1 degree. The maximum temperature setting is 155°F. Use the +/- buttons to change the temperature setting.

7. Press ACCEPT. You then see:
MEDIA MENU
conserve media: ON

   Use the +/- buttons to turn media conservation ON/OFF. The default value is ON.

   When set to ON, the printer rewinds the substrate to minimize waste before printing the next image.

   When set to OFF, the printer does not rewind the substrate before printing. This setting should be used for media that is very thin or adhesive backed, which may wrinkle during rewinding or become malformed by the heat required to dry the inks.

8. Press ACCEPT. You then see:
MEDIA MENU
feed adjustment: +/- 0 - 30

   Use the +/- buttons to set the feed adjustment from -30 to +30. The default value is 0.

   This feature enables the adjustment of media stepping to compensate for variation in media lots and environmental factors. The plus direction lengthens each media step. The minus direction shortens each media step.

9. Press ACCEPT. You then see:
   MEDIA MENU
   hor margins: (0.2" - 4.0")

   Use the +/- buttons to select the required horizontal margin value for a job.

10. Press ACCEPT. You then see:
    MEDIA MENU
    ver margins: (0.2" - 4.0")

    Use the +/- buttons to select the required vertical margin value for a job.

11. Press ACCEPT. You then see:
    MEDIA MENU
    Halogen Lamps maximum power: (min, low, medium, max)

    Use the +/- buttons to select the required power.

    The default value is max.

    The high heat from the flying IR unit can cause some media to wrinkle at the beginning of a print. The halogen lamps maximum power setting enables the operator to lower the temperature of the flying IR unit to possibly alleviate the wrinkling.

12. Press ACCEPT. You then see:
    MEDIA MENU
    [media name]

About Printer

The About Printer menu enables you to view on the printer control panel the current firmware version and the amount of media printed.

Follow these steps to view the About Printer menu:

1. Navigate to:
   MAIN MENU
   operator

2. Press the ACCEPT button. You then see:
   OPERATOR
   print parameters

3. Press the MENU button five times. You then see:
   OPERATOR
   about printer

4. Press ACCEPT. You then see:
   ABOUT PRINTER
   Printed: XXXXX

5. Press ACCEPT or MENU. You then see:
   ABOUT PRINTER
   FW Rev.: XX.X

6. Press ACCEPT or MENU. You then see:
   ABOUT PRINTER
   FW Date: XX / XX / XX

7. Press ACCEPT or MENU. You then see:
   ABOUT PRINTER
   FW Time: XX:XX

8. Press ACCEPT or MENU. You then see:
   ABOUT PRINTER
   Serial No.: XXXXXX

9. Press ACCEPT or MENU. You then see:
   ABOUT PRINTER
   Boot rom: X.XX

10. Press the ONLINE button. You then see:
    MAIN MENU

Units

The Units menu enables you to choose between English and metric units. All control panel menus will then display the selected unit.

Setting the Units

Follow these steps to select the type of unit to display on the control panel:

1. Navigate to:
   MAIN MENU
   operator

2. Press the ACCEPT button. You then see:
   OPERATOR
   print parameters

3. Press the MENU button six times. You then see:
   OPERATOR
   units

4. Press ACCEPT. You then see:
   UNITS
   (english or metric)

   Use the +/- buttons to select a unit type.

5. Press ACCEPT. You then see:
   OPERATOR
   units

Set Clock

The Set Clock menu enables you to set the date and time. When the date and time are set, they are printed in the statistics output. The printer does not automatically adjust for daylight savings time.

Set Date and Time

During the setting procedure, the ACCEPT button moves the underscore to the next parameter to be set. In **SET DATE**, the underscore specifies:

- Day
- Month
- Year
- Day of the week

In **SET CLOCK**, the underscore specifies:

- Hours
- Minutes

Follow these steps to set the date and time:

1. Navigate to:
   MAIN MENU
   operator

2. Press the ACCEPT button. You then see:
   OPERATOR
   print parameters

3. Press the MENU button seven times. You then see:
   OPERATOR
   set clock

4. Press ACCEPT. You then see:
   SET CLOCK
   set date

   Press MENU to set the time, and go to step 8.

5. Press ACCEPT. You then see:
   SET DATE
   01 JAN 1997 WED

   Use the +/- buttons to change each element: the date, the month, the year, and the day of the week. Press ACCEPT after changing each element.

6. Press ACCEPT after changing the day of the week. You then see:
   SET CLOCK
   set date

7. Press MENU. You then see:
   SET CLOCK
   set time

8. Press ACCEPT. You then see:
   SET TIME
   hh : mm

   Use the +/- buttons to enter the correct hour and minute in 24-hour format. Press ACCEPT after changing each element.

9. Press ACCEPT after changing the minute. You then see:
   SET CLOCK
   set time

Ink Menu

The Ink menu is used to install new ink bottles and check the amount of ink remaining in each bottle. You are required to either scan or manually enter the barcode code found on the side of the ink bottle for each new installation.

Ink Bottle Installation

Follow these steps to view the Ink menu:

1. Navigate to:
   MAIN MENU
   INK MENU

   If you press MENU, go to step 6 (see page 4-29).

2. Press ACCEPT. You then see:
   INSTALL INK BOTTLE
   color: [color]

   Use the +/- button to select a color to install.

3. Select a color and press ACCEPT. You then see:
   Scan barcode (Color)
   Accept->Manual Entry

   Scan the ink barcode found on the side of the bottle. Listen for the sound prompts; single tone signifies that the barcode scan was successful whereas a double tone signifies an unsuccessful scan. Check the control panel after a successful scan and complete the ink bottle installation process. A barcode practice submenu is located under the maintenance menu if you need to perfect the scan technique. The tip of the barcode should run evenly across the width of the barcode including some portion of the white space. Go to the next step to enter it manually when scanning is unsuccessful.

4. Press ACCEPT. You then see:
   BAR CODE
   ->->->->->->->->->->->

   For manual entry, use the +/- buttons to select one symbol or letter as shown below the bar code on the ink bottle and press ACCEPT. Repeat this process until all symbols and letters are entered.

   If you enter an ink barcode from an unapproved ink or if no barcode information is entered and you press ACCEPT or MENU, the following message is displayed:
   WRONG INK TYPE
   Press ACCEPT to continue

5. Press the ACCEPT or MENU button. The menu returns to step 3. You then see:
   Scan barcode (color)
   Accept->Manual Entry

   The non-Océ ink barcode is 8 characters, beginning with the hyphen -YKT#J7R

This barcode is requested before each print job until a valid Océ ink barcode is scanned.

Warning:

Océ Display Graphics Systems accepts no liability when non-Océ Display Graphics Systems ink is used. Customers voluntarily using non-Océ Display Graphics Systems ink assume all risk of damage that might result. Customers agree to waive any claims or rights they may otherwise have against Océ Display Graphics Systems or its agents for damage and/or loss of business resulting from use of non-Océ Display Graphics Systems ink.

6. You then see:
   INK LEVELS
   color: xx% remain

   Use the +/- button to select a color.

7. Press ACCEPT or MENU. You then see:
   INK LOW LEVEL
   Ink low warning when: xx% remaining

   The default value is 35%.

   When the ink level decreases to the warning level, such as 35%, of the bottle volume, Ink Low warning indicators appear on the operator control panel. If the ink bottle is allowed to empty, the printed image can be ruined by ink drainage from the juice boxes. Use the +/- button to adjust the setting. The minimum recommended setting is 10%.

8. Press ACCEPT or MENU. You then see:
   MAIN MENU
   ink menu

Invalid Bar Code

If an invalid bar code is detected, the following message is displayed:
Invalid barcode
press ACCEPT to continue

An invalid bar code can occur from an incorrect reading by the scanning wand.

Press the ACCEPT button. The menu returns to step 3 (see page 4-28). You then see:
Scan barcode (color)
Accept->Manual Entry

If the printer determines that a full bottle has been used, the following message is displayed:
Expired barcode
press ACCEPT to continue

An expired bar code can occur from changing ink bottles without scanning a new bar code or from additional ink being added to an installed bottle. Install a new bottle of ink and scan its bar code.

Press the ACCEPT button. The menu returns to step 3 (see page 4-28). You then see:
Scan barcode (color)
Accept->Manual Entry

Configure I/0

The Arizona 600 printer has two types of data ports, Centronics™ parallel and low-voltage differential (LVD) SCSI-3. The correct configuration is typically selected by the installing service engineer and should not require adjustment by the customer.

Parallel Port Configuration

Note: This port is only used by service engineers for downloading firmware.

LVD-SCSI-3 Port Configuration

The standard 68-pin LVD-SCSI-3 port connects the printer to the PosterShop RIP platform via a standard 68-pin SCSI-3 data cable. The maximum length of this cable is 40 feet (12 meters).

Warning:
NEVER connect or disconnect SCSI cables with the printer or the host PC powered ON.

Follow these steps to configure the SCSI-3 port:

1. Navigate to:
   MAIN MENU
   CONFIGURE I/O

2. Press the ACCEPT button. You then see:
   CONFIGURE I/O
   active: SCSI

If the current setting is parallel, you will see:
CONFIGURE I/O
active: parallel

Use the +/- buttons to select SCSI.

3. Press ACCEPT. You then see:
SCSI PORT
SCSI address: (0 - 6)

This option specifies a SCSI address that identifies the printer to the host system. Use the +/- buttons to select an address (0-6), as required.

4. Press ACCEPT. You then see:
SCSI Port
timeout XXX seconds

This option enables you to specify a time period in seconds (1-600) for the printer to consider the job transfer complete, if an END OF PRINT command is not received. The delay may need to be increased if the printer issues an error during an image transfer. A typical error of this type may cause large blank areas (no data) within the image. Increase this value by at least 60 seconds and try again. Use the + button to increment the timeout period.

The default setting is 60 seconds.

5. Press ACCEPT. You then see:
SCSI PORT
ultra SCSI: (on or off)

This parameter pertains to the SCSI card being used on the host PC. This parameter is normally set to On so that the host PC and the printer can negotiate the highest transfer speed. If the cable is too long, it can cause transfer problems. This parameter should then be set to Off. Use the +/- buttons to select On or Off.

6. Press ACCEPT. You then see:
SCSI PORT
Interface cable detected: LVD or SE

7. Press ACCEPT. You then see:
CONFIGURE I/O
active: SCSI

5 Printer Maintenance

Maintenance Guidelines

While Océ Display Graphics Systems furnishes guidelines for periodic maintenance, the optimum maintenance schedule evolves from your observation of the Arizona 600 printer over a period of use. For example, some maintenance is required each time you install a new roll of media. The type of print job and media can determine the maintenance schedule. Printing a high volume of solid ink fill images may require more tending than printing low ink coverage images.

Océ Display Graphics Systems requires that the operator follows minimum cleaning guidelines as described in this manual. A few minutes spent cleaning ensures the highest quality prints. Use the Operator Maintenance Schedule Guidelines (see Table 5-1, "Operator Maintenance Schedule Guidelines," on page 5-2) for requirements about when to perform regular maintenance to this printer during production runs.

Each customer operation involves different types of print jobs, environmental conditions, duty cycles, and volume of work. While Océ furnishes guidelines for periodic maintenance, the optimum maintenance schedule evolves from operator observation of the printer over a period of use.

Cleaning Fluid/Capping Fluid Usage

The cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) is used for cleaning and flushing print heads, the carriage face plate, and the platen.

The cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) is also used to supply and preserve the capping station foam pads during operation of the printer. The operator should refill the cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) container located in the right end of the printer when a message indicates the bottle is nearing empty.

Warning:

Do not wipe the outside painted surfaces or the Plexiglas window of the printer with cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks). It will quickly damage the printer surface.

Print Head Maintenance and Nozzle Recovery

The *Print Head Maintenance* document ("Printer Maintenance" on page B-1) is an essential guide for cleaning and flushing ink buildup from the print head nozzles or plates and the carriage face plate on the Arizona 600 printer. The procedure is an engineering-

controlled document and is also supplied with the cleaning kit shipped with the printer. Follow the steps and precautionary messages in the document closely to ensure optimum performance from your machine.

Operator Maintenance Schedule

The Arizona 600 printer requires daily maintenance. Periodic cleaning should be scheduled for some components during the week. A few minutes spent cleaning ensures the highest quality prints. Several areas require maintenance to ensure the highest print quality, and the printer design gives you easy access to all these areas. Diligent application of the Arizona 600 printer Operator Maintenance Schedule Guidelines ensures optimum performance from your printer.

Table 5-1 Operator Maintenance Schedule Guidelines

Description	Procedure	Frequency
Absorbing Pads	Capping Station Pads: Clean the pads bi-weekly. Replace pads every 60 days or sooner if excessively worn, dirty, or ink encrusted. (See “Replacing Capping Station Pads” on page 5-10.) Capping Station Bed: Replace this large pad located under the capping station if the pad becomes saturated with ink.	Bi-weekly Every 60 days As required
Air Pressure Pump Filter	Replace the filter when the clear crystal material begins to fully discolor. (See “Air Pressure Pump Line Filter” on page 5-19.)	As required
Blotting Cloth	Replace when empty or as indicated by the control panel messages. (See “Blotting Cloth Installation” on page 5-11.)	As required
Capping Station	Follow the Capping Station Maintenance procedure (See “Capping Station Maintenance” on page 5-8.).	Twice a week
Carriage Cable	Adjust the carriage cable tension. (See"Adjusting the Carriage Cable" on page 5-16.) Clean the carriage cable. (See "Cleaning the Carriage Cable" on page 5-17.	Weekly or monthly Monthly

Description	Procedure	Frequency
Carriage Rails	Wipe clean with a lint-free cloth and 91% or higher isopropyl alcohol only. Use a lint-free cloth saturated (but not dripping) with isopropyl alcohol (see Figure 3-12 on page 3-10).	Once a week
Cleaning Fluid (For 5500/6600-Series Inks) or Capping Fluid (For 440-Series Inks)	Refill the bottle when low or as indicated by control panel messages. (See “Cleaning Fluid or Capping Fluid Container and Waste Container” on page 2-2.)	As required
Drip Roller	Wipe clean with a lint-free cloth and cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) (see Figure 3-12 on page 3-10).	Daily
Encoder Strip	Wipe clean with a lint-free cloth and 91% or higher isopropyl alcohol only. Take extra care to not bend the strip when cleaning.	Once a month
Ink Supply Bottles	Replace when empty or as indicated by control panel messages. (See “Ink Supply Changes” on page 2-2.)	As required
Ink Waste Container	Empty when control panel message indicates the container is full. Follow ink MSDS requirements for disposal. (See “Cleaning Fluid or Capping Fluid and Waste Bottles” on page 2-2.)	As required
Interior and Exterior	Wipe surfaces clean with a lint-free cloth and 91% or higher isopropyl alcohol only.	Once a week
Left and Right End Caps	All doors must be closed or secured at all times to capture fumes and heat.	Always
Media Drive Roller	Wipe clean with a lint-free cloth and 91% or higher isopropyl alcohol only. Wipe clean with a sponge/scrubber and 91% or higher isopropyl alcohol only. (See “Cleaning the Media Drive Roller” on page 5-5.)	Every media change Weekly
Media Encoder Turn Bar	Wipe the cylindrical-shaped steel bar clean with a lint-free cloth and 91% or higher isopropyl alcohol (see Figure 3-11 on page 3-9).	Every media change

Description	Procedure	Frequency
Plexiglas® Windows	Wipe clean with a lint-free cloth and 91% or higher isopropyl alcohol only.	As required
Print & Go Drive Roller	Wipe clean with a lint-free cloth and 91% or higher isopropyl alcohol only (see Figure 3-18 on page 3-20). Wipe clean with a sponge/scrubber and 91% or higher isopropyl alcohol only (see Figure 3-18 on page 3-20).	Every media change Weekly
Print Heads	Clean the nozzle plates with a lint-free swab and cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) according to the Print Head Maintenance and Nozzle Recovery Procedures document "Printer Maintenance" on page B-1. Use the Operator/Maintenance Menu to purge print heads. (Note: Media must be installed when a purge is performed.)	Daily As required
Vacuum Platen	Wipe clean with a lint-free cloth and 91% or higher isopropyl alcohol or cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks). Cover the open ends with paper to improve the vacuum when narrow media is in use.	Every media change As required
Ventilation and Drying	Ensure that the airflow and ducting meet published site survey requirements.	Every 60 days

Important: If 91% or higher isopropyl alcohol does not remove ink stains, use only the approved cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) supplied with the printer in very small quantities. Do not use cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) on the Plexiglas windows. Always use protective gloves, eye protectors, and a lint-free cloth when handling solvent-based solutions.

Automated Maintenance

The Arizona 600 printer firmware performs automated maintenance without direct operator intervention when the printer is idle and while printing.

Operator-Performed Maintenance

Waste Bottle Full

If the waste bottle is detected to be full, a warning message is displayed before the next print. This message can be overridden up to five times before it becomes a hard error message. The waste container must be emptied and disposed of in accordance with state and local laws or in accordance with the MSDS sheets.

Cleaning Fluid/Capping Fluid Empty

If the cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) bottle is detected to be empty, a warning message is displayed before the next print. This message can be overridden up to five times before it becomes a hard error message.

Cleaning the Media Drive Roller

General Cleaning

The media drive roller should be wiped clean with a lint-free cloth and 91% or higher isopropyl alcohol with every media change to maintain high feed accuracy and print quality.

Weekly, the media drive roller should be wiped clean with a sponge/scrubber and 91% or higher isopropyl alcohol only to remove any accumulated paper dust or residue.

Figure 5-1 Cleaning the Media Drive Roller

Additional Debris Removal

If too much media debris accumulates on the components, it can track back onto the media and ruin prints. To keep your prints clean and free of debris, routine cleaning should be done after each media roll change. This is especially important when using medias with adhesive backing. They have a coated layer that comes off easily and accumulates on various areas of the printer.

Manually clean the following areas:

- Take-up and supply dancer and nylon support bearing - use a lint-free cloth with alcohol to clean debris off the entire dancer bar, especially where it contacts the nylon support bearing. Gently push back on the white support and insert the alcohol-saturated cloth to clean the white support surface (see Figure 5-2).

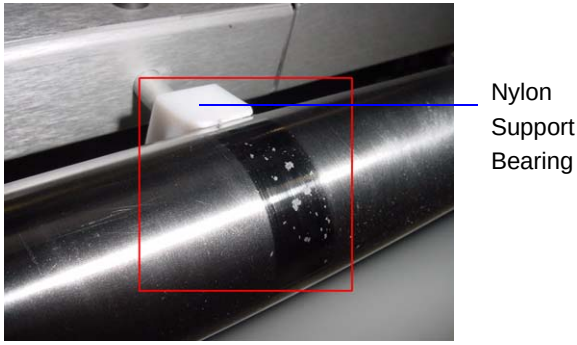


Figure 5-2 Take-up and Supply Dancer Bar and Nylon Support Bearing

- Encoder wheel - use masking tape (or similar tape) to pick debris off the wheel. Rotate the wheel and use fresh tape until the entire surface of the wheel is clean (see Figure 5-3).

Figure 5-3 Press Fresh Tape on the Encoder Wheel

Figure 5-4 Debris on the Tape

- Media drive roller - follow the general cleaning procedure (see "General Cleaning" on page 5-5) with emphasis on the debris that accumulates on the center of the roller (see Figure 5-5).

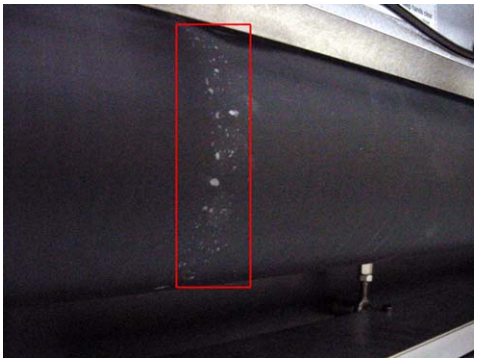


Figure 5-5 Debris on the Media Driver Roller

Capping Station Maintenance

The capping station (see Figure 5-7 on page 5-9) consists of a single plate with 24 small saturated foam pads (OIN #3012001442). The station is used to cap and preserve the print-head nozzles when the printer is idle between images. The cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) is pumped up to the plate to provide continuous saturation of the pads to prevent the solvent ink from drying on the nozzles.

The capping station has funnel-shaped sections with drain holes for each of the print heads (see "Cleaning the Drain Slots and Drain Holes" on page 5-9). During daily printing operations, purges ensure nozzle integrity before and during prints. The ink drains through a manifold and into a single tube down to the waste bottle. Over time, the bottle fills and must be emptied. Notification is via the control panel.

Cleaning the Capping Station

Follow these steps to clean the capping station plate:

1. Move the carriage using the Access Carriage menu to expose the capping station surface.

2. Open the right-side end cap doors.

3. Using several swabs and cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks), clean the drain slots and the drain holes (see Figure 5-6).

Figure 5-6 Cleaning the Drain Slots and Drain Holes

4. Using a lint-free cloth saturated with cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks), clean the capping station plate (see Figure 5-7).

Figure 5-7 Capping Station

5. Monitor and replace any foam pads that are worn (significantly deformed) or discolored. See Table 5-1, "Operator Maintenance Schedule Guidelines," on page 5-2 for more details.

6. Park the carriage using the Park Carriage menu.

Replacing Capping Station Pads

Follow these steps to replace the capping station pads:

1. Soak new pads for at least 10 minutes in cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) so they expand to seat correctly.

2. Move the carriage using the Access Carriage menu to expose the capping station surface.

3. Open the right-side end cap doors.

4. Remove and discard all used pads.

> ***Note:*** If new pads are unavailable, remove the existing pads. Soak them in a container with cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) for a few minutes and squeeze out the dirty fluid. Repeat this process several times until the extracted fluid is relatively clean.

5. Use a lint-free cloth saturated with cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks), and clean the capping station plate, especially the indentions where the new pads will set (see Figure 5-7 on page 5-9).

6. Squeeze most of the fluid from the new pads and install them into the indentations in the capping station.

> ***Note:*** Do not squeeze the pads dry. Leave some fluid so the pads remain moist.

7. Park the carriage using the Park Carriage menu.

Maintenance Cloth Station

The maintenance cloth station (see Figure 5-8) is located in the left-side end cap. Two doors provide access for replacing the blotting cloth (OIN# 3012000247). The cloth provides a purge area for the print heads to remove excess ink from the nozzles and head surface. The cloth rises via an air cylinder to extract ink from the underside of the carriage.

Figure 5-8 Maintenance Cloth Station

Blotting Cloth Installation

Follow these steps to install the blotting cloth:

8. To lower the maintenance station, pull the release handles found on the right side (see Figure 5-9). The entire maintenance station slides down slowly.

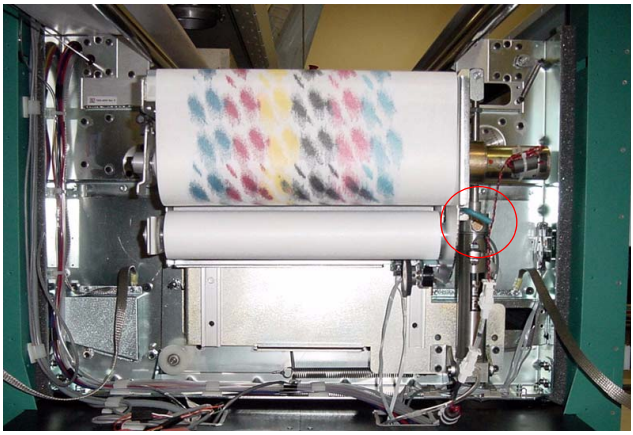


Figure 5-9 Blotting Cloth Release Handle

Note: The blotting cloth can be easily changed without lowering the maintenance station.

9. Swing back both lever arms and remove the used blotting cloth roll (see Figure 5-10).

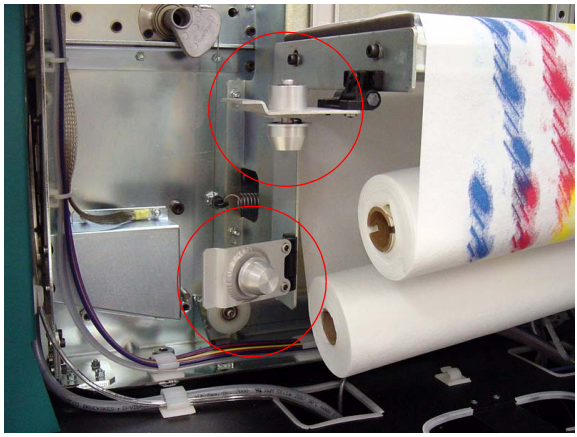


Figure 5-10 Lever Arms

Warning:

Never reinstall a used blotting cloth roll. It contains dried ink and other foreign particles that can damage the print heads.

10. The blotting cloth rides over a Teflon® sheet on top of a foam support pad. Clean the sheet with recommended cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks), and inspect the support foam before replacing the blotting cloth (see Figure 5-11).

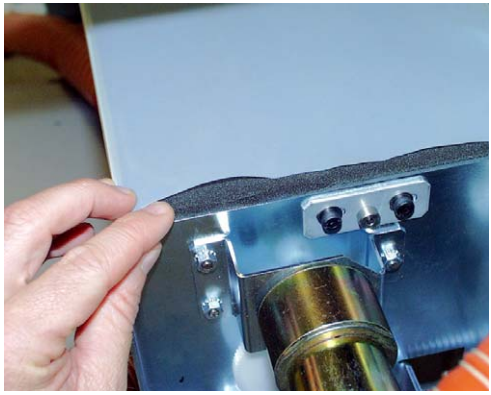


Figure 5-11 Blotting Cloth Sheet and Support Foam

11. While wearing a pair of butyl rubber gloves, wipe down any ink that may have accumulated along the surface of the Teflon sheet. Use a lint-free cloth saturated with cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks).

12. Install the new blotting cloth roll on the lower hub, and capture the left end with the lever arm. Install the empty notched take-up core on the upper hub with drive pins, and capture the left end with the lever arm (see Figure 5-12).

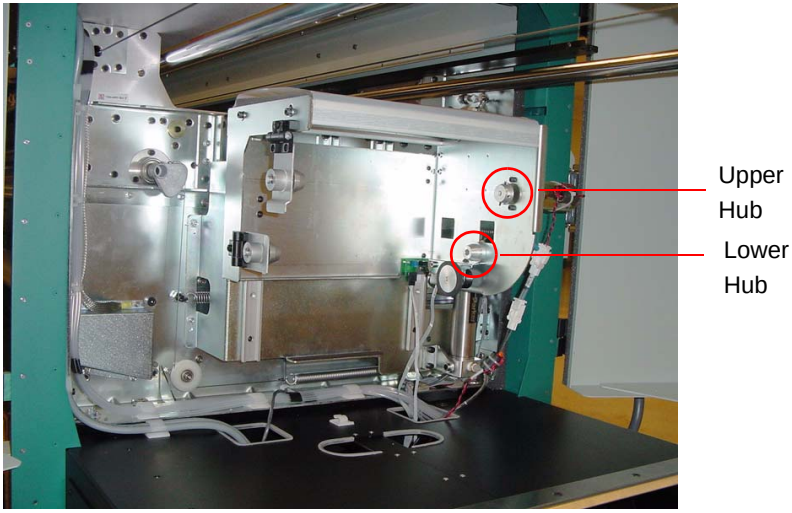


Figure 5-12 Blotting Cloth Hubs

13. Feed the leading edge of the cloth from the bottom of the roll up and around the back side of the Teflon sheet and foam pad (see Figure 5-13).

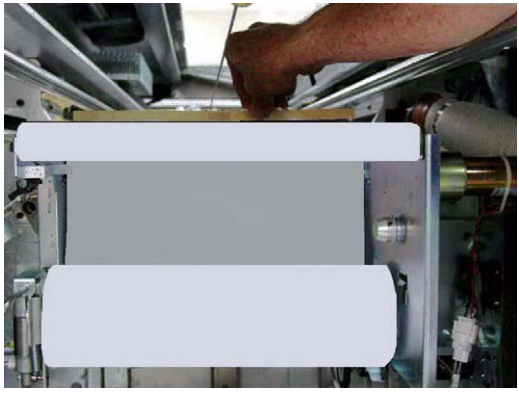


Figure 5-13 Feeding the Cloth (Step 1)

14. Pull the leading edge of the cloth across the Teflon sheet and down until it reaches the take-up core (see Figure 5-14). Remove the paper backing off the leading edge of the plastic strip attached to the cloth so it can be taped evenly to the empty take-up core.

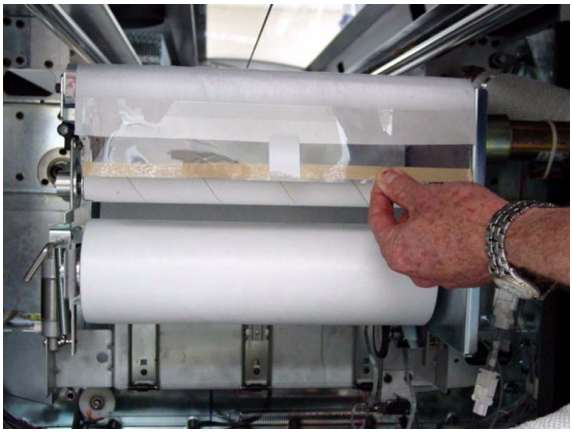


Figure 5-14 Feeding the Cloth (Step 2)

15. Align the plastic strip with the right ed of the core and attach the sticky strip horizontally across the empty core (see Figure 5-15).

Figure 5-15 Attach the Cloth to the Take-up Core

16. Rotate the supply roll to take out the slack in the cloth path. The station will automatically raise and lock into the correct position at the beginning of the next print.

Carriage Cable

Adjusting the Carriage Cable

The carriage cable on your new printer will require weekly adjustment during the first two months after installation. After this initial break-in period, adjustment is recommended once a month.

In the event the carriage cable is ever replaced in your printer, the new cable will stretch for several weeks after replacement. The carriage cable may need to be tightened several times a day for about a week, once a day for a couple of weeks, then weekly for another month to be certain the cable is fully stretched and tight. After the break-in time, this adjustment will not be required very often as the cable is fully stretched. After the initial break-in period, adjustment is recommended once a month.

The carriage cable should be checked for adjustment or cleaning if carriage speed/encoder errors occur.

To adjust the carriage cable, perform the following tasks:

1. Turn the handle clockwise (right) smoothly until the handle clicks (see Figure 5-16).

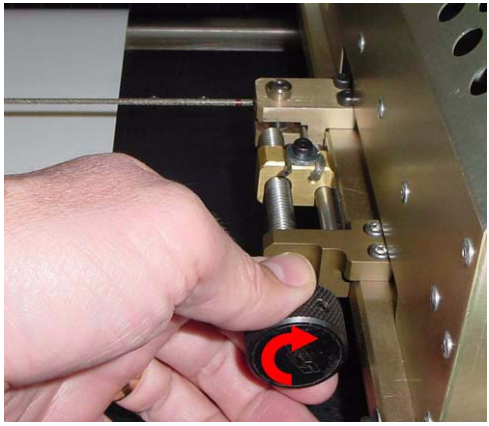


Figure 5-16 Adjusting the Carriage Cable Tension

2. Turn the handle an additional full turn until it clicks again. This will verify the cable is tensioned fully.

Cleaning the Carriage Cable

The carriage cable should be cleaned monthly to remove normal build-up of dirt, oils, or ink on the cable. Additionally, the cable should be checked for cleaning or adjustment if carriage speed/encoder errors occur.

Note: Always wear gloves when handling the carriage cable. Handling the carriage cable with bare hands can result in the build-up of oils on the cable, which can lead to carriage speed/encoder errors.

To clean the carriage cable, perform the following tasks:

1. Open the top door of the printer.
2. Clean the exposed cable over the platen using a clean cloth with isopropyl alcohol.
3. From the operator panel, access the carriage to move it to the left end of the printer.
4. Clean the exposed cable over the platen using a clean cloth with isopropyl alcohol.
5. From the operator panel, park the carriage over the capping station.

Printer Filters

Filter type, part number, and dimensions are documented on labels near the filter locations. Replacement filters are available for purchase from Océ. Contact an Océ supplies representative if you have any questions or for more information on these filter types and service life.

Purolator Hi-40 Filters

System Filters

Four air system filters are required on the Arizona 600 printer. Each filter should be inspected every two months. The filter should be replaced when the filter fabric begins to discolor from the original condition or once every twelve months, whichever comes first. They are located at the rear of the printer just below the electronic bay doors. The air system filter (Dim: 9 1/2 in. x 16 1/2 in. x 1 in.) replacement is OIN #3011570041. These filters easily slide in/out from underneath the printer (see Figure 5-17).

Figure 5-17 Purolator Hi-40 System Filters

Note: An airflow direction arrow is printed on the side of the filter. The arrow should be pointing up when installed because the air is being drawn up into the printer.

Air Pressure Pump Line Filter

An air pressure pump filter is required on the Arizona 600 printer. The filter is located in the front of the printer inside the lower right bay doors near the air tanks. The replacement is OIN #3011695043. The filter is transparent and must be replaced when the clear crystal material begins to fully discolor (see Figure 5-18). Contact an Océ service representative for filter type, service life, replacements, questions and/or more information.

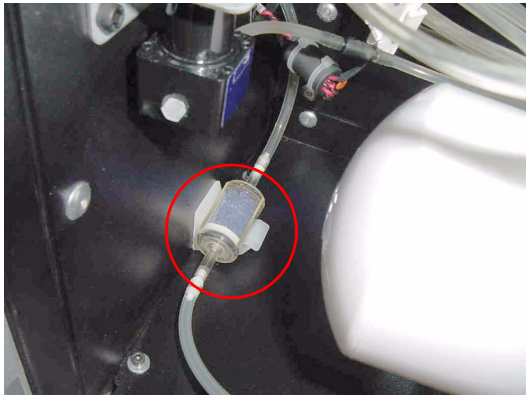


Figure 5-18 Air Pressure Pump Line Filter

6 Error Messages and Troubleshooting

Overview

This section covers general problems that may occur with the printer. In most cases, malfunctions that trigger system error messages are caused by human error, a system malfunction, an interface cable malfunction, mechanical printer malfunction and/or printer firmware failure.

User-Correctable Errors

User-correctable errors are problems that interfere with printing but do not shut down the printer completely. Typically, these errors are problems that prevent starting a printing job or that interrupt the current print. You should be able to fix user-correctable errors without a service call. In most cases, the printer itself informs you what is wrong by displaying an error message on the control panel. Check these common error messages and apply the appropriate remedy (see Table 6-1, "Error Message Explanations and Actions," on page 6-3).

Insufficient Media

The following message is displayed:
INSUFFICIENT MEDIA
(press ACCEPT to ignore)

The printer may have too little media to print the job. The INSUFFICIENT MEDIA message may be overridden to continue printing. However, the printer may run out of media prior to the conclusion of the printing or drying process. If you do not think enough media is available on the supply media roll, replace it with a new one and restart your print job.

Door Open

A door is open. Check and close all doors. If the error does not go away, contact your Océ Display Graphics Systems service representative.

Take-up Roll Full

Too much media is present on the take-up roll. Remove the full roll and replace it with an empty core.

Low Ink

Replace the ink color indicated on the control panel and scan the new bottle's bar code.

Low Solvent

Refill the cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) container.

No Paper

No media is present on the media supply roll. Install a new media roll.

If Problems Persist

If problems persist, perform the following actions as appropriate for the situation:

- Check for media tears.
- If the media does not load or has other problems related to installation, try another roll of media.
- If you just changed ink in the printer, review the procedures in the user's manual and check for successful installation.
- Try printing the configuration print or menu tree from the Test Prints menu.
- If the printer is not receiving print jobs, check the SCSI cable/connections.

If you are still having problems, contact your Océ Display Graphics Systems service representative.

Calling for Service

Trying to eliminate simple problems before calling your service representative is important, but knowing when to call for service is also important. Without training, servicing the printer yourself may cause further damage. When you have determined that a service call is required, call as soon as possible. Have the following information ready:

1. Printer model and serial number. They are located on the lower right panel at the rear of the printer or through the About Printer menu.
2. The type of computer or computer connection and operating system acting as the print server.
3. Error message displayed on the operator control panel, if any.
4. The exact circumstances when the error occurred, such as during media loading, printing, or maintenance.

5. Note any unusual phenomena, such as peculiar printing, noises, and smells associated with the failure.

6. The media type and lot number. This information may be located on the original box and inside the tube of the roll.

System Errors

System errors stop the printer and prevent operation until the error is resolved. Many system error messages indicate the source of the problem and state that the error can be cleared by pressing the ACCEPT button on the control panel. If the problem persists, record the error message and contact your Océ Display Graphics Systems service representative.

Table 6-1 Error Message Explanations and Actions

CONTROL PANEL MESSAGE	EXPLANATION AND ACTION
Print System Warning Messages	
WARNING insufficient media	The printer may have too little media to print the job. The INSUFFICIENT MEDIA message may be overridden to continue printing. However, the printer may run out of media prior to the conclusion of printing or the drying process. If you do not think enough media is available on the supply media roll, replace it with a new one and restart your print job.
WARNING media too narrow	Lower the margin settings in the printer menu, verify the actual media width and compare it to the image width set in PosterShop, and reprocess the image.
WARNING no media	If no media is loaded, load the media. If media is loaded, perform the media installation procedure again.
WARNING take-up roll full	The take-up roll has reached maximum diameter. Remove the roll, and install an empty core.
Close All Doors and press ACCEPT button	Door is open. Close all doors, and press the ACCEPT button.

CONTROL PANEL MESSAGE	EXPLANATION AND ACTION
Waste Bottle Almost Full Press ACCEPT to Continue	Ink waste container is almost full. Monitor closely, and empty the ink waste container. Then, press ACCEPT.
Please Replace Waste Bottle and press ACCEPT button	Ink waste container is full. Empty the ink waste container, and press ACCEPT.
Media Encoder error press ACCEPT button	The media is not contacting the media encoder wheel properly. Perform the following steps before you press ACCEPT: 1. Lower the media-encoder pinch roller. 2. Verify the supply and take-up core notches are engaged into the mandrel hubs. 3. Verify that the media is not too thick or stiff.
BLOTTING CLOTH IS ALMOST OUT press ACCEPT to continue	Check the amount of blotting cloth available and monitor frequently. Replace the blotting cloth before the next long print job.
BLOTTING CLOTH IS OUT press ACCEPT to continue	Replace the blotting cloth, then press ACCEPT.
Status and Low Ink Messages	
XX:XX Media: XXX' Used: YY' IR/PZ: Idle	Printer is idle.
XX:XX Media: XXX' Used: YY' IR/PZ: DOOR OPEN	Printer is idle, but the door is open. Close the door to return to idle.
XX:XX Media: XXX' Used: YY' IR/PZ: CANCELLING PRINT	Printer is cancelling print.
XX:XX Media: XXX' Used: YY' IR/PZ: PRN: [job name] dd%	Printer has printed *dd* percent of [job name].
XX:XX Media: XXX' Used: YY' IR/PZ: INP: [job name] dd%	Printer has input (parsed) *dd* percent of [job name].
XX:XX Media: XXX' Used: YY' IR/PZ: TST: [job name] dd%	Printer has generated *dd* percent of [test print].
ADD BLACK INK then press ACCEPT	Black ink is out. Replace the ink, and press ACCEPT.

CONTROL PANEL MESSAGE	EXPLANATION AND ACTION
ADD CYAN INK then press ACCEPT	Cyan ink is out. Replace the ink, and press ACCEPT.
ADD MAGENTA INK then press ACCEPT	Magenta ink is out. Replace ink, and press ACCEPT.
ADD YELLOW INK then press ACCEPT	Yellow ink is out. Replace ink, and press ACCEPT.
ADD LIGHT CYAN INK then press ACCEPT	Light Cyan ink is out. Replace ink and then press ACCEPT.
ADD LIGHT MAGENTA INK then press ACCEPT	Light Magenta ink is out. Replace the ink, and press ACCEPT.
SOLVENT LOW	Refill the cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) container.
System Messages	
SYSTEM ERROR [press ACCEPT to restart]	Press ACCEPT for these types of messages. The printer performs a soft reboot. Allow the printer to reboot and return to idle. Do not power the printer Off and On to clear these errors. If the problem does not clear, call your authorized service representative with the details about what the printer was doing and the exact error messages displayed on the control panel.
SYSTEM ERROR [press ACCEPT to restart] purge air pressure failure	If the error returns after you press ACCEPT to restart the printer, call your authorized service representative.
SYSTEM ERROR [press ACCEPT to restart] carriage encoder error	Perform the following step before you press ACCEPT: 1. Clean and/or adjust the carriage cable tension, as described in Chapter 5. If the error returns after you press ACCEPT to restart the printer, call your authorized service representative.

CONTROL PANEL MESSAGE	EXPLANATION AND ACTION
SYSTEM ERROR [press ACCEPT to restart] TAKEUP MOTOR or ENCODER	Replace the take-up roll, if empty. Check that the take-up core is correctly installed on the mandrel hubs. If the error does not clear, call your authorized service representative.
SYSTEM ERROR [press ACCEPT to restart] SUPPLY MOTOR or ENCODER	Replace the supply roll, if empty. Check that the supply core is correctly installed on the mandrel hubs. If the error does not clear, call your authorized service representative.
SYSTEM ERROR [press ACCEPT to restart] FEED MOTOR or ENCODER	Check for a possible media jam. Ensure the pinch rollers are down. Clean the media drive roller. If the error does not clear, call your authorized service representative.
SYSTEM ERROR [press ACCEPT to restart] TAKEUP DANCER	Verify the media is loaded properly, especially on the take-up roll. If the error does not clear, call your authorized service representative.
SYSTEM ERROR [press ACCEPT to restart] SUPPLY DANCER	Verify the media is loaded properly, especially on the supply roll. If the error does not clear, call your authorized service representative.
SYSTEM ERROR [press ACCEPT to restart] CARRIAGE STEPPER	If the error returns after you press ACCEPT to restart the printer, call your authorized service representative.
SYSTEM ERROR [press ACCEPT to restart] INK VACUUM FAILURE	If the error returns after you press ACCEPT to restart the printer, call your authorized service representative.

CONTROL PANEL MESSAGE	EXPLANATION AND ACTION
SYSTEM ERROR [press ACCEPT to restart] CARRIAGE SPEED ERROR	Perform the following step before you press ACCEPT: 1. Clean and/or adjust the carriage cable tension, as described in Chapter 5. If the error returns after you press ACCEPT to restart the printer, call your authorized service representative.
SYSTEM ERROR [press ACCEPT to restart] CARRIAGE LCA FAILURE	If the error returns after you press ACCEPT to restart the printer, call your authorized service representative.
SYSTEM ERROR [press ACCEPT to restart] BLOTTER MOTOR or ENCODER	This error can occur after lowering the maintenance station to clean the print head nozzle plates. Check if the blotter cloth supply roll is loose and take up any slack by turning the supply roll. Press ACCEPT to restart the printer. If the error does not clear, call your authorized service representative.
System Error Uncorrectable Feed Error	Check for loose media and the correct attachment of the take-up and supply cores to the mandrel hubs. Ensure the media-encoder pinch roller and the media drive roller pinch rollers are in the correct position. The media may an unapproved media that does not work within the printer specification. Use an approved media. If the error does not clear, call your authorized service representative.

Appendix A Menus

The Arizona 600 printer software displays a series of menus to facilitate the operation of the printer. The entire menu tree structure can be printed using the Print Menu Tree menu (See “Print Menu Tree” on page 4-13).

Images of the following menus can be found in this appendix:

Menu	Page
Copies/Reprints Menu	A-2
Operator Menu	A-3
Print Parameters Menu	A-3
Test Prints Menu	A-4
Maintenance Menu (Part 1)	A-5
Maintenance Menu (Part 2)	A-6
Media Menu	A-7
About Printer Menu	A-8
Units Menu	A-9
Set Clock Menu	A-10
Ink Menu	A-11
Configure I/O Menu	A-12

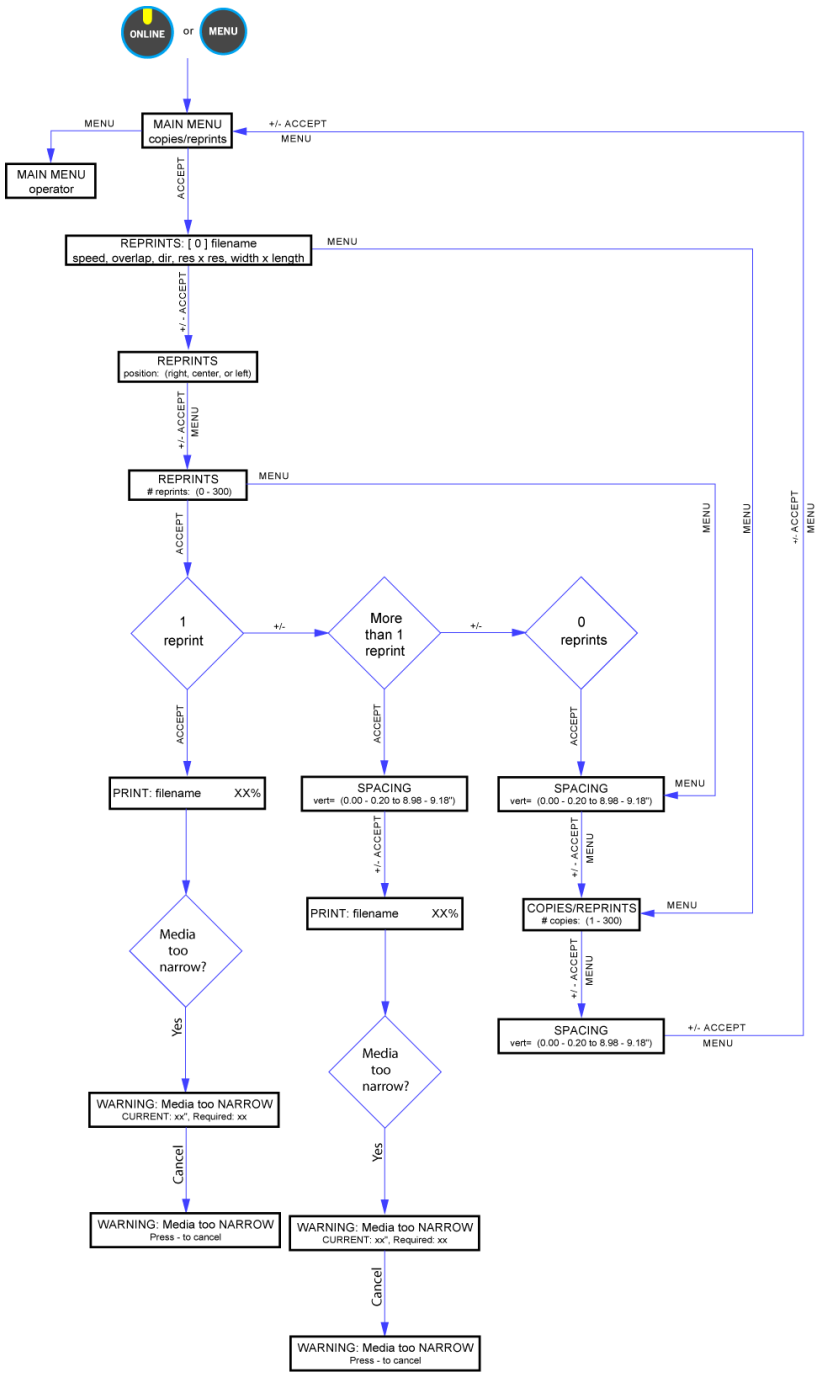


Figure A-1 Copies/Reprints Menu

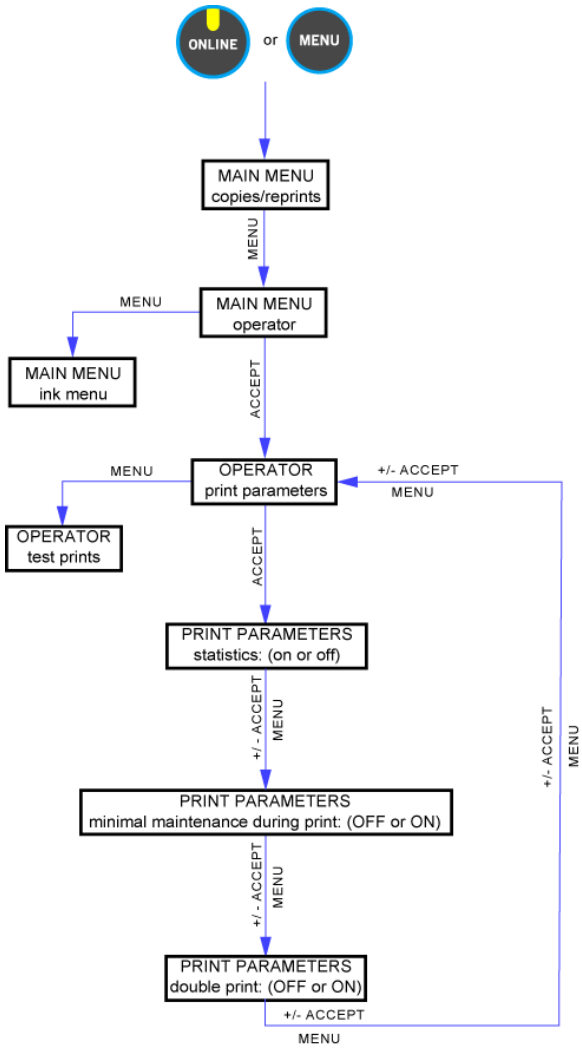


Figure A-2 Print Parameters Menu

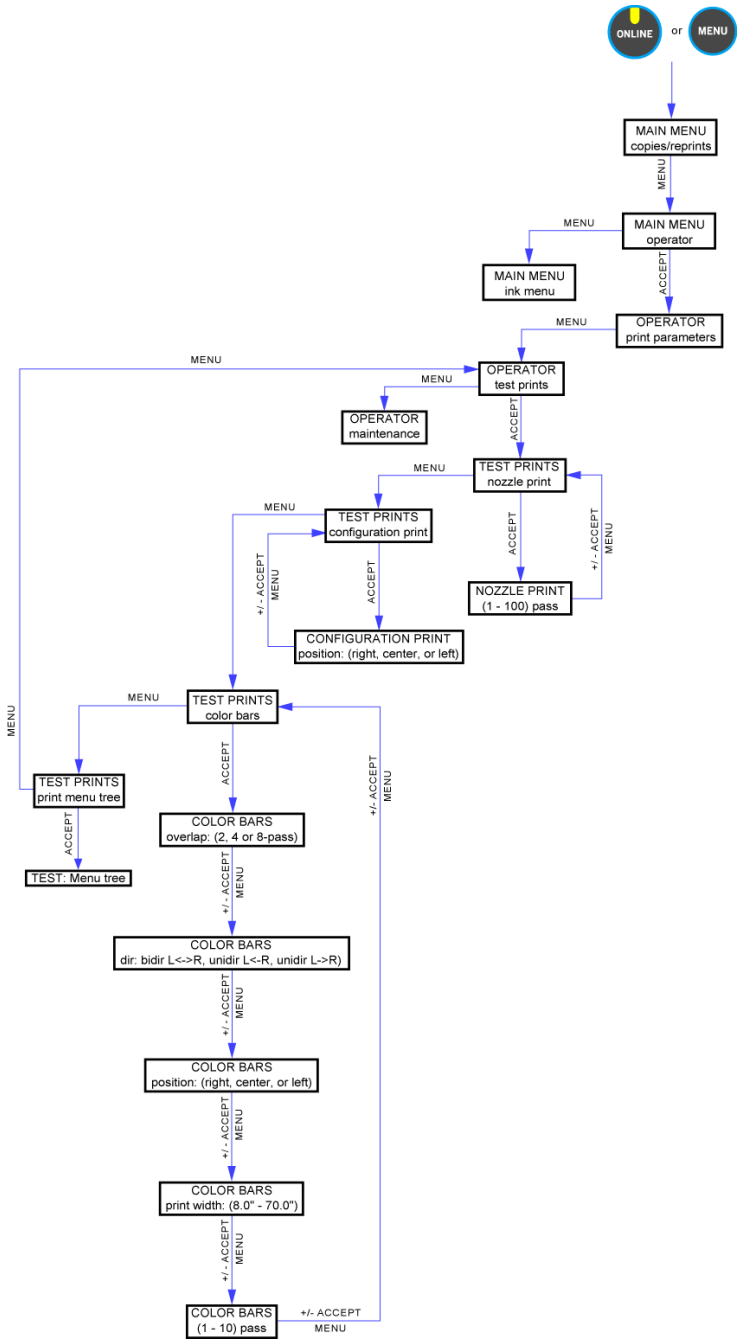


Figure A-3 Test Prints Menu

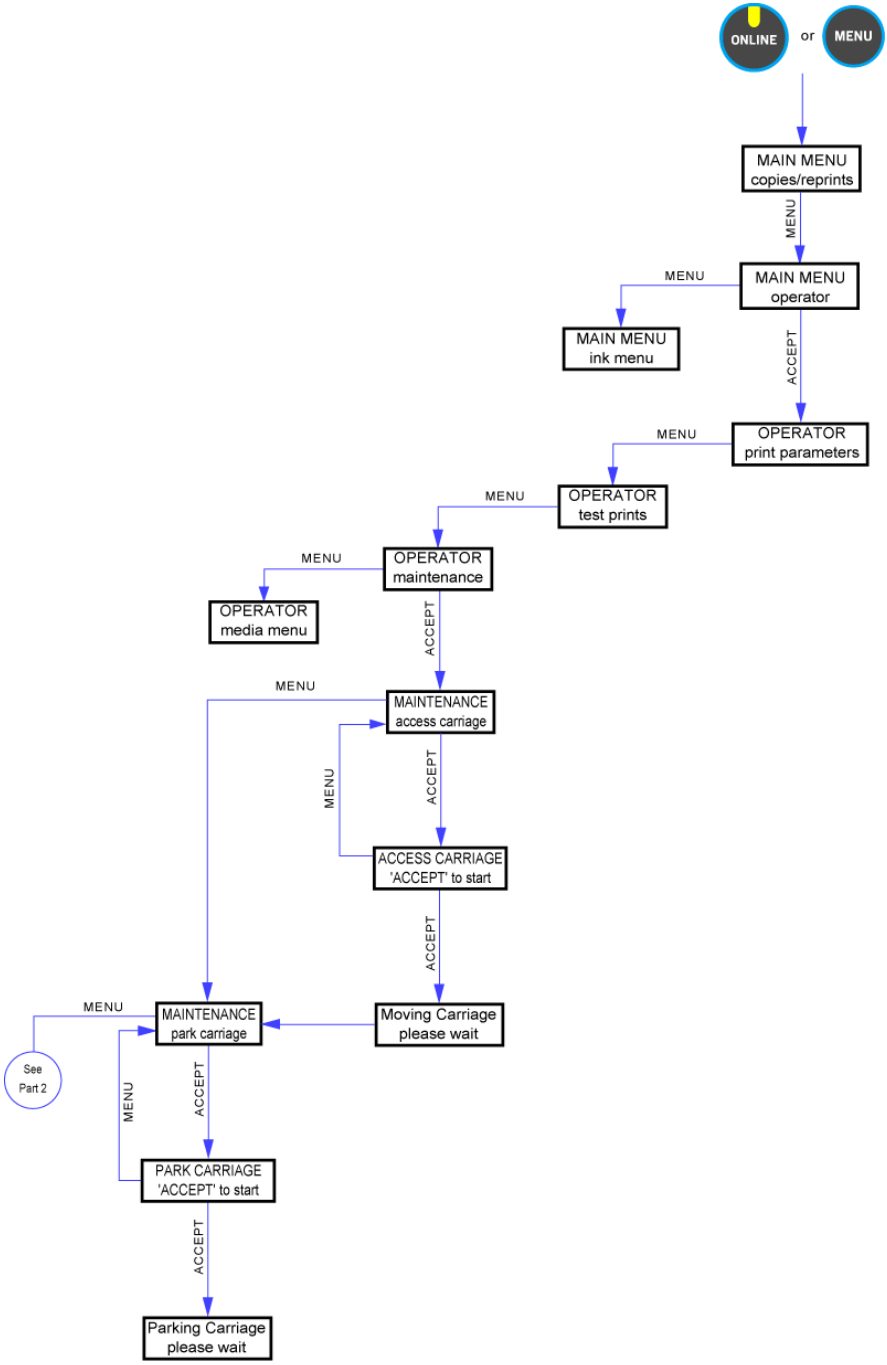


Figure A-4 Maintenance Menu (Part 1)

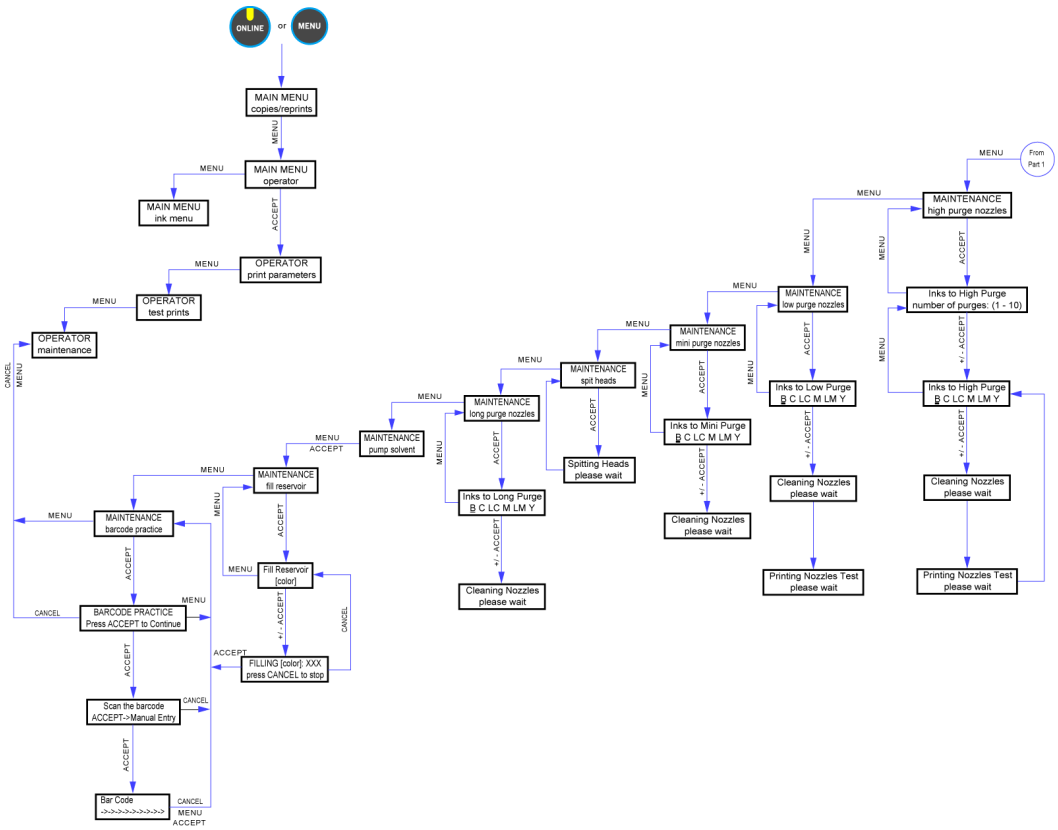


Figure A-5 Maintenance Menu (Part 2)

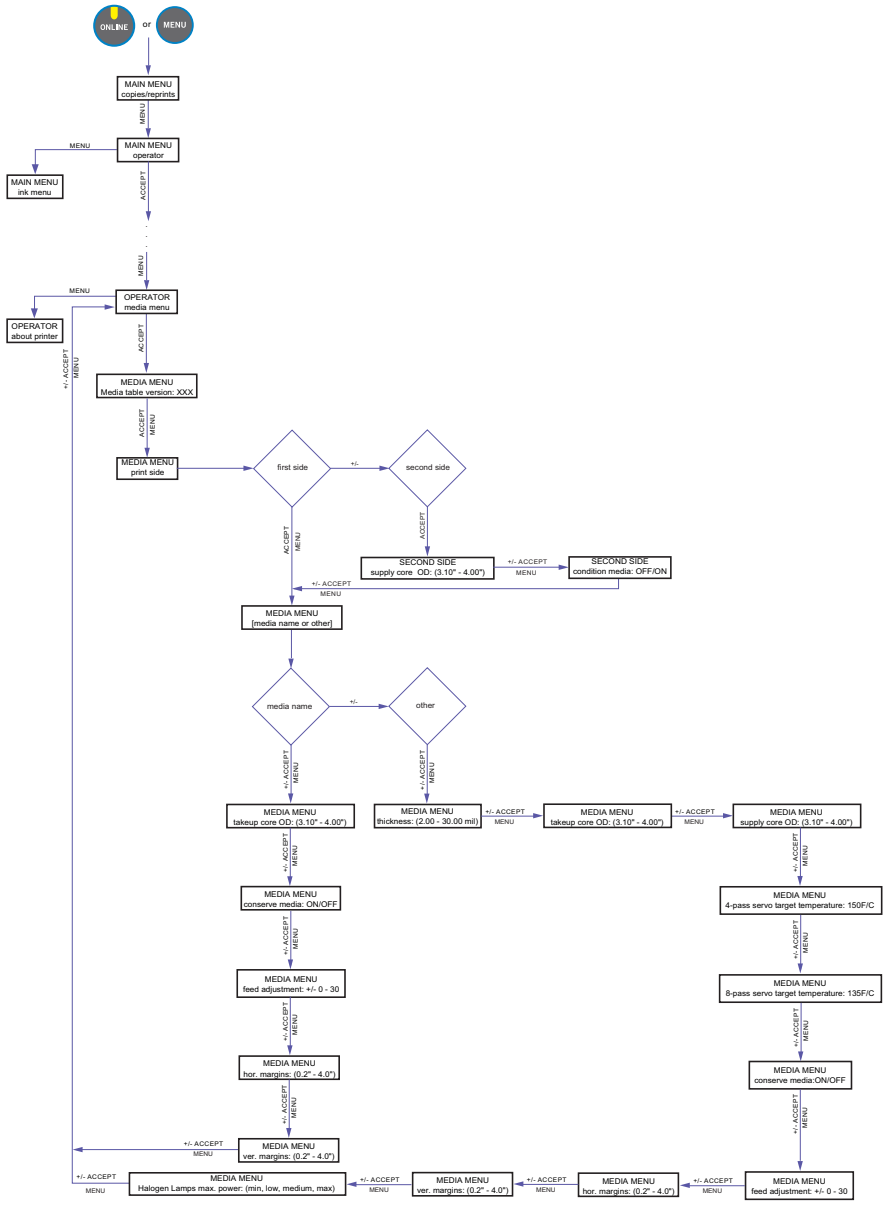


Figure A-6 Media Menu

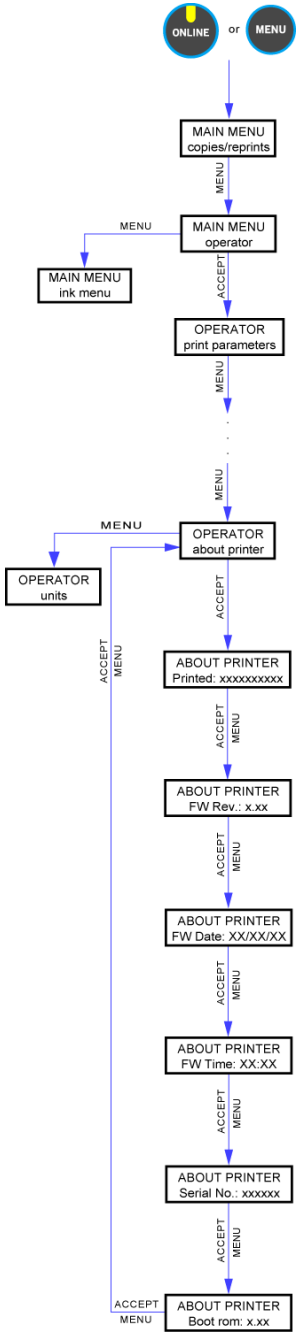


Figure A-7 About Printer Menu

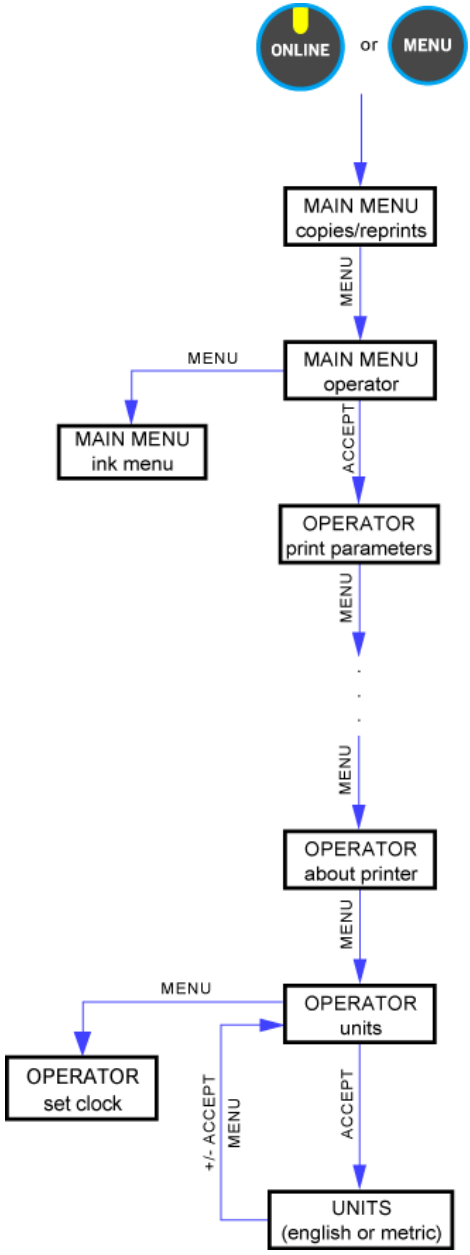


Figure A-8 Units Menu

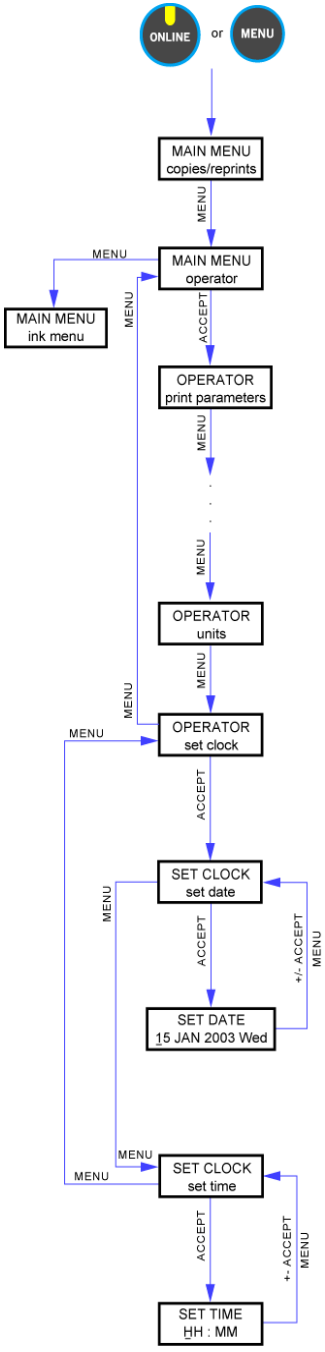


Figure A-9 Set Clock Menu

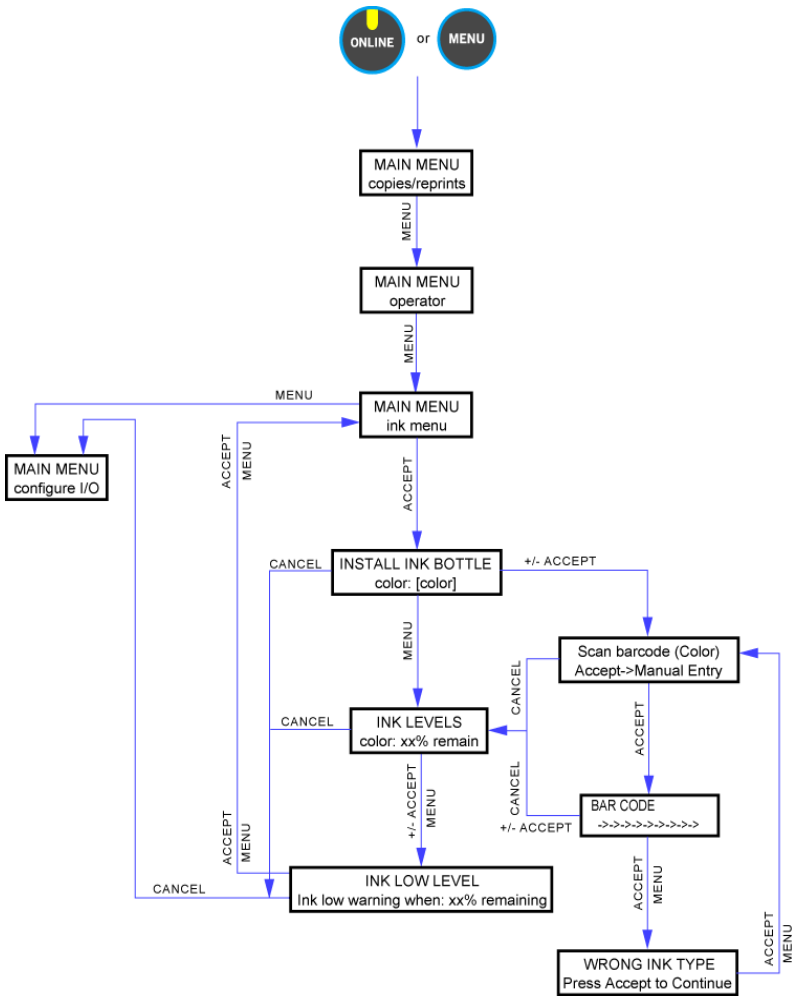


Figure A-10 Ink Menu

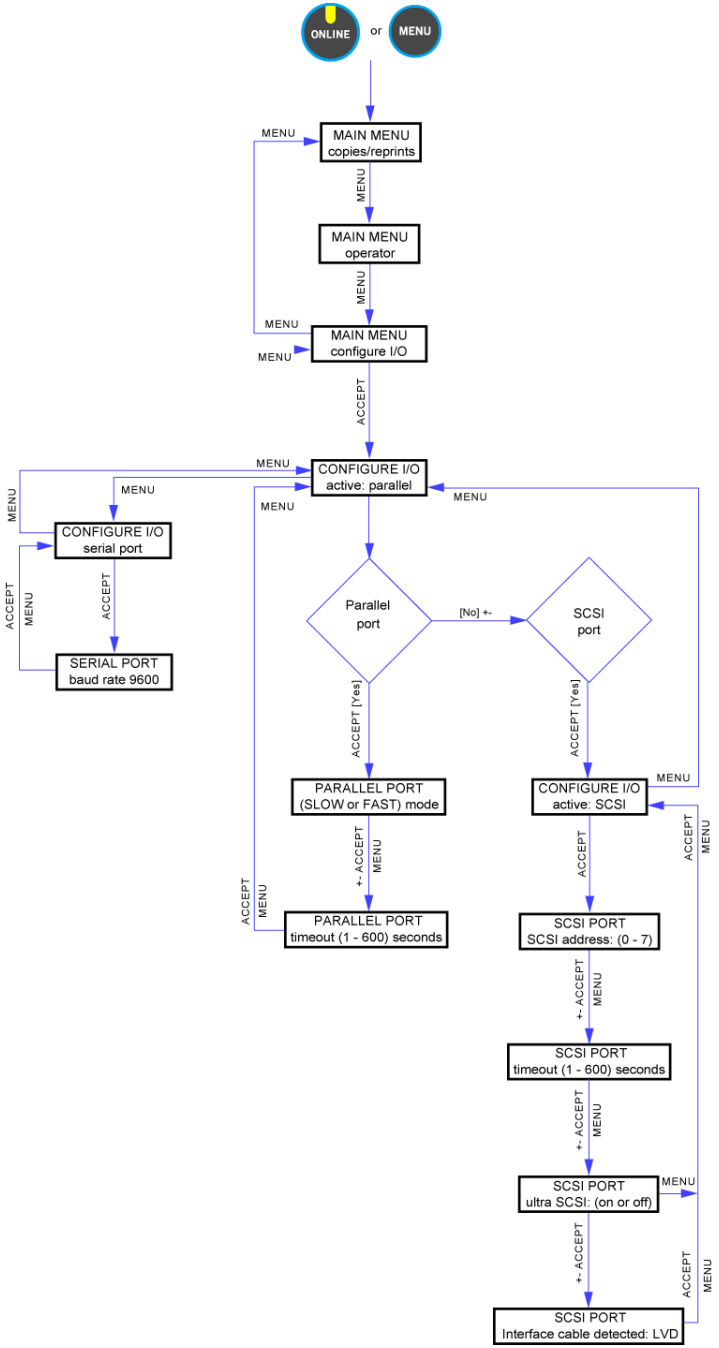


Figure A-11 Configure I/O Menu

Appendix B Printer Maintenance

Instructions for properly cleaning and/or flushing ink buildup from the capping station, carriage face plate and the print head nozzle plates on the Arizona 600 printer.

Materials

Print head maintenance requires the following materials:

- Isopropyl Alcohol (91% Isopropyl or higher)
- Shallow 9-Inch x 14-Inch Pan
- 50-ml Syringe Kit (OIN #3010100747)
- Swabs (OIN #3011620285)
- Safety Glasses (OIN #3011620274)
- Lint-Free Cloth (OIN #3011620283)
- Butyl Gloves (OIN #3011620273)
- For use with 5500-series and 6600-series inks only,
  CGS-50 Cleaning Fluid, 1 Gallon (OIN #3012000798)
- For use with 440-series inks only,
  Capping Fluid (OIN #3012002981)
  Flushing Fluid (OIN #3012002982)

Cleaning Fluid/Capping Fluid Usage

The cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) is used for cleaning and flushing print heads, the carriage face plate, and the platen.

The cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) is also used to supply and preserve the capping station foam pads during operation of the printer. The operator should refill the cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) container located on the lower right end of the printer (next to the waste bottle) when the printer indicates the container is nearing empty.

Warning:

Do not wipe the outside painted surfaces or the Plexiglas window of the printer with cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks). It will quickly damage the printer surface.

Material Usage

A specified quantity of cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks), butyl gloves and a lint-free cloth are used to clean the capping station and the carriage face plate. A specified quantity of cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) is used with swabs to clean the print head nozzles. A user-supplied respirator should be used during each cleaning procedure.

General Recommendations for the Operator

- Always perform a *low* or *high* purge using the Operator/Maintenance menu as a first step to bring nozzles back for printing.

Warning:

Media must be installed prior to performing this function.

- Prepare materials for each cleaning procedure before accessing the carriage over the maintenance (blotting cloth) station.
- Clean all print head nozzle plates at the *beginning* and *end* of each work day.
- Manually flush print heads as a last resort to clear blocked nozzles. Contact your Customer Service representative for assistance with this procedure.
- Read guidelines as outlined in the Material Safety Data Sheet (MSDS) before handling or discarding ink-contaminated items.

Cleaning the Capping Station

1. Move the carriage assembly by using the Operator/Maintenance/Access Carriage menu on the control panel, open the doors on the right end and locate the capping station.

2. Put on the protective butyl gloves before handling any ink residue with a lint-free cloth.

3. Apply cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) on a lint-free cloth and begin cleaning the capping station as shown in

Photo 1. Wipe away the ink build-up on the face of the capping station and inside the ink purge drains.

Important: Do not reuse the ink soaked lint-free cloth on any other surfaces of the printer.

Cleaning the Carriage Face Plate

1. If you have just cleaned the capping station, then go to the left side of the printer and open the doors. Otherwise, access the carriage assembly via the control panel using the Operator/Maintenance/Access Carriage menu before opening the left-end doors.
2. Retract/lower the maintenance station to expose the print head nozzle plates and carriage face plate as shown in ***Photo 2***.
3. Continue using the protective butyl gloves when handling the ink residue.
4. Apply cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) on a lint-free cloth and gently wipe away any ink buildup on the carriage face plate shown in ***Photo 3***. Be careful not to touch any of the print head nozzle plates.

Cleaning the Print Head Nozzle Plates

This procedure should be performed at the beginning of each work day. Always use a new swab for each color when performing this procedure.

Note: Adhering to this procedure will provide maximum head life and nozzle reliability.

Use an individual, small container of cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) and a new swab for each color. Only use this cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) for several cleanings until it becomes slightly discolored.

Warning:
Never use isopropyl alcohol on the print head nozzle plates.

5. Access the carriage assembly via the control panel using the Operator/Maintenance/Access Carriage menu, and open the doors on the left end of the printer.
6. Lower the maintenance station to access the carriage faceplate.

Dip the clean swab into the small container of cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks).

Warning:
Each swab has a seam that may scratch the print head nozzle plate. Use the long semi-curved smooth sides of the swab.

7. Starting with the light cyan print heads, use a saturated swab to gently apply the cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) onto the nozzle plates. Gently move the swab across each head nozzle plate one time to moisten the ink on each head surface, as shown in ***Photo 4.***

Important: Applying too much force with the swab against the nozzle plate may scratch the surface.

8. Repeat steps 4 and 5 for each color beginning next with light magenta, working your way through cyan.

Important: Use one clean swab and container of cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) per color. Never mix an ink stained swab outside the color you are working with.

9. Allow the heads to soak a couple of minutes.

10. Starting again with the light cyan print heads, dip the light cyan swab into its cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) and gently move the saturated swab across each head nozzle plate several times to remove the softened ink from each head surface**.**

Important: Applying too much force with the swab against the nozzle plate may scratch the surface.

11. Repeat step 8 for each color beginning next with light magenta, working your way through cyan.

12. Empty or store the cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks) containers and unused cleaning items (swabs and/or lint-free cloth) for the next scheduled cleaning. Do not store new swabs in the cleaning fluid (for 5500/6600-series inks) or capping fluid (for 440-series inks).

13. Park the carriage assembly via the control panel using the Operator/Maintenance/ Park Carriage menu.

14. Close the printer doors. The maintenance station automatically raises and locks into place.

15. Do a *low* purge of all colors from the Operator Maintenance menu. View the nozzle print for good quality (few or no nozzles missing). If necessary, run a *high* purge.

Flushing a Print Head

This procedure is *not* performed daily. It is performed as a last resort to clear blocked nozzles. It should only be performed by a trained operator. Contact your Customer Service representative for assistance with this procedure. See "Materials" on page B-1 for information about ordering the correct cleaning fluid or flushing fluid.

1. Access the carriage assembly via the control panel using the Operator/Maintenance/ Access Carriage menu.

2. Open the doors on the left end of the printer, then lower the maintenance station to expose the print head nozzle plate, as shown in ***Photo 2***. Place a shallow 9-in. x 14-in. (23-cm x 36-cm) pan on top of the maintenance station.

3. Locate the print head to be flushed. Disconnect and cap the ink line coming from the ink reservoir to the selected print head to prevent ink spillage.

4. Depending on the ink type, fill the syringe with cleaning fluid (for 5500/6600 series ink) or flushing fluid (for 440 series inks), then attach it to the ink line going into the disconnected print head.

Flush the print head into the pan below (positioned on top of the maintenance station). Looking from the carriage face plate level, visually check to see the fluid exits the print head nozzles evenly (straight down versus multidirectional streams of clear fluid) into the pan from the print head.

Warning:
Do not allow any air to enter the print head.

5. Disconnect the syringe from the head ink line, then reconnect the head and reservoir ink lines back together.

   Remove the catch pan, return the carriage to the home position and close the left-end doors. Run a *long* purge of all colors to prime the print heads. Run a *low* or *high* purge for all colors to generate a nozzle test print to verify all nozzles are firing.

Contact your Customer Service representative if this procedure fails to correct your problem.

Photo 1

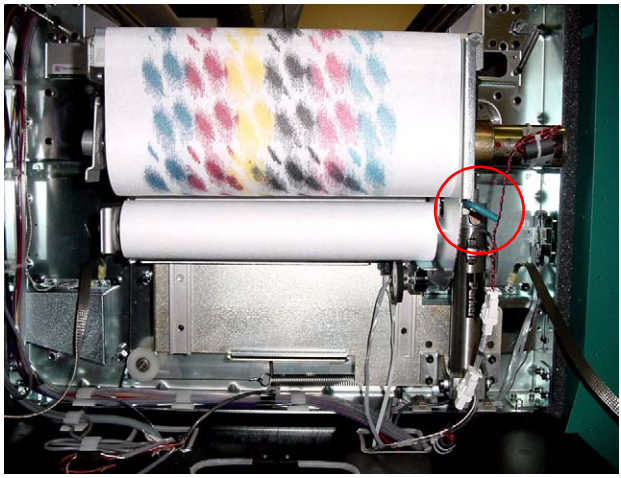


Photo 2

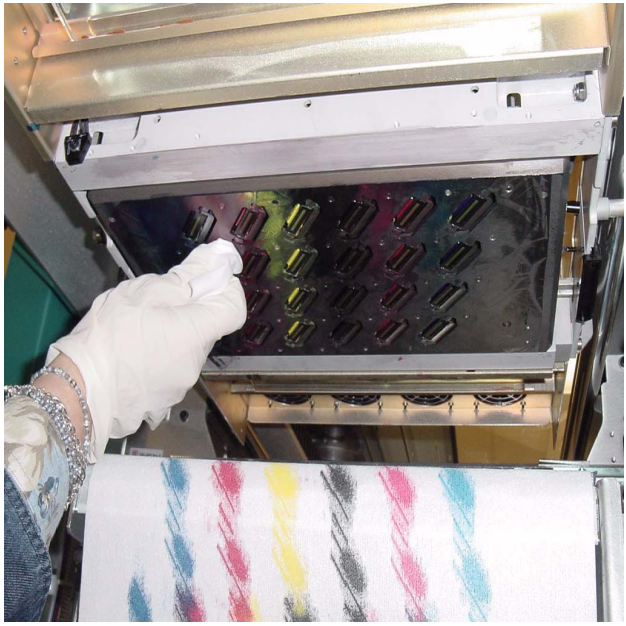


Photo 3

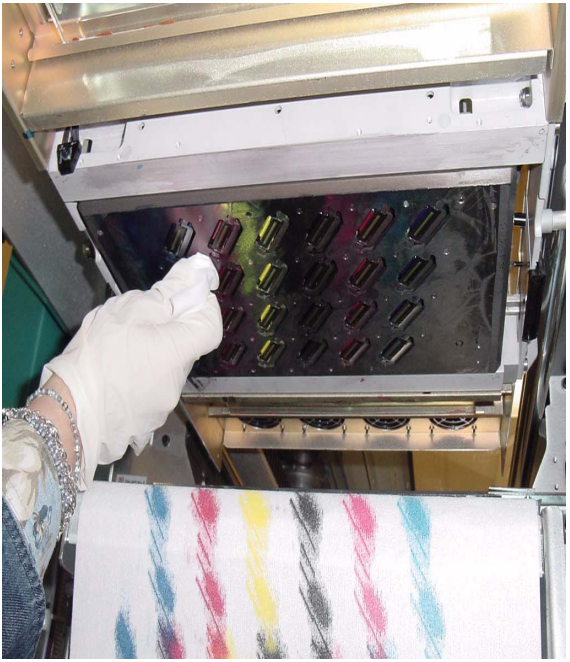


Photo 4

Appendix C Printer Features Description

Blotting Cloth Usage

The Océ Arizona 600 control panel displays the percentage of Blotting Cloth Remaining. This will provide information for the operator to accurately judge when to change the cloth without negatively impacting production. When approximately 20% remains on the blotting cloth roll, the printer issues a warning before the start of each print.

Optimal versus Wide Writing Gap – Default "Optimal"

Note: The *Wide* Writing Gap option is not intended for smaller, high quality images. Thin vertical lines and small text could be blurred and slight "misting" may occur, leading to unwanted image artifacts.

When selecting the *Other* media option during the *Load Media* process, the operator now is given the opportunity to select *Wide* Writing Gap. This will enable the operator to set the print head carriage >90 mils above the platen.

Note that the *Wide* setting does not change the maximum acceptable media/ substrate thickness, which remains at 30 mils.

The actual distance between the media and head carriage will vary depending on the actual thickness of the target media. The feature is primarily designed to provide an extra gap to accommodate media that may have surface wrinkles that can lead to carriage strikes, which may result in a ruined print and potential damage to the print heads.

Important: Carriage strikes increase the potential for permanent print head damage. If a particular media/substrate results in multiple and/or frequent carriage strikes, avoid using that media/substrate.

Conserve Media – Default "ON"

When the Océ Arizona 600 printer begins each new print, it will rewind the media to minimize waste. Certain media may have difficulty rewinding and will wrinkle in the process. This is primarily evident in very thin media or adhesive-backed substrates that are malformed by the heat required to dry the inks during the printing process.

To avoid this problem, disable the *Conserve Media* feature in the *Media Menu* or during the *Load Media* routine. With this selection OFF, each new image will begin printing without rewinding the substrate.

The amount of unused media will vary from 203.2 mm (8 inches) when operating in the roll-to-roll printing and a job is in the print queue to 101.60 mm (40 inches) when using the Print & Go module.

Feed Adjustment – Default “0”

This feature provides the user with the capability to adjust the media advance length between print swaths to accommodate for slight media and site-specific variations. Although the Arizona 600 is programmed with specific media advance parameters based on the specific substrate being used, environmental factors, such as heat, humidity, and different media may affect the actual optimal media advance quantity.

A “short” feed may create dark line banding in an image while a “long” feed may exhibit a white line between print passes. When using this function, pressing the “+” key will increase the feed number and “-” will decrease it. The range is minus 30 to positive 30. A "+" number increases the distance of each media feed and a "-" number decreases it.

This selection is available in the Media Menu and is also available during the Load Media process.

Condition Media – Default “OFF”

This feature is designed to assist in accurate two-sided printing where the printed media surface tension of the first side can affect the printing of the second side. When set to ON, the Océ Arizona 600 printer will advance the media the length of the print and rewind back to the beginning of the image prior to printing.

This selection only appears when the printer is configured to print the *Second Side* and is not commonly needed when printing two-sided output. This selection is located in the Media Menu and it’s also selectable during the Load Media process.

Appendix D Two-Sided Printing and Double Print

Two-Sided Printing

Traditionally, vinyl graphics that are viewable from both sides have been printed on separate pieces of material and subsequently sewn or stitched together. The obvious advantage of two-sided printing is the immediate savings resulting from using half the amount of media. Other advantages include easier finishing, thereby reduced finishing costs, faster time to market or turnaround time, less weight, more flexibility, and reduced chance of damage during stitching.

The Print Second Side function enables you to generate extremely accurate two-sided printing. This can be used for either double-sided banners or for backlit graphics.

The Océ Arizona 600 printer is capable of creating two-sided banner vinyl graphics for use in many popular applications. Flags, POP banners, trade-show graphics, and two-way viewable graphics of all kinds can be made easily and accurately using the unique capabilities of the Océ Arizona 600 printer. This feature requires user input at the control panel, and direct marking of the media to determine starting points from print to print. With minimal hardware set-up and a little practice, the two-sided printing feature provides an effective means to produce two-sided vinyl graphics.

Double Print

The Double Print function of the Arizona 600 is used to generate very high density images for backlit graphics (constantly on) or other applications where a heavy coverage of ink is desired. This feature is not recommended than images longer than 6' (2 meters).

Important: Both of these applications will only work effectively in the roll-to-roll printing mode. Using the Print & Go external take-up device is not recommended.

Preparing the Arizona 600 Printer

Before generating a Double Print or a Double Sided Print, the Start of Print Point needs to be identified. This point is different for both the 8-pass and 4-pass printing.

Marking the Platen

1. Load 75" vinyl into the machine in then roll-to-roll mode.
2. Specify "first side" in control panel when loading.

3. Allow machine to load normally.

4. Using the "maintenance" menu, perform a head purge.

5. Allow the machine to complete its purge and print the accompanying nozzle test - do not advance the media.

6. After the nozzle print is complete, open the lid of the printer.

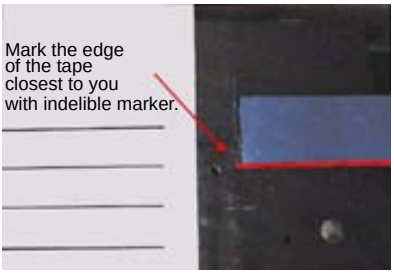


Figure A

7. Observe the 4 marks made by the Cyan heads in the BACK right hand corner - see Fig. A.

8. Using the second Cyan mark from the BACK of the printer as a guide, using the straight edge create a line continuing to the right side of the platen - see Fig. A.

9. Using the masking tape, affix a piece of tape along this straight line - see Fig. A.

10. Measure back 5 mm from the front edge (See the red line in Fig. B) of the tape for 8-pass printing and draw a straight line to the edge of the platen.

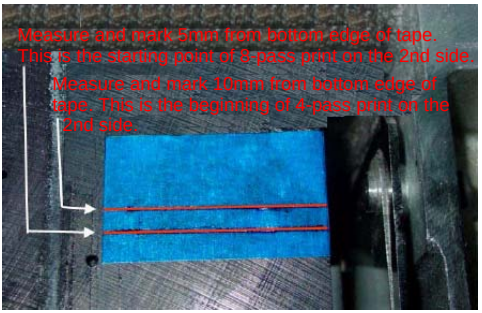


Figure B

11. These lines accurately reflect where printing begins in 8 and 4 pass and will be used to line up the image on the reverse side, when you switch to the second side.

Double Sided Printing: Printing the First Side of the Graphic

1. From the control panel, select "Menu", "Operator", "Print Parameters", "Statistics" and turn "Statistics" off.

2. In Onyx Rip Queue, highlight the Arizona 600 and select "Change".

3. From the "Change Media and Placement" window select "Setup.

4. From the "Placement Strategy" window, set the "Top" and "Left" offsets to 0.00 and set "Justification" to "Right".

5. Open the file to be printed in Pre-Flight.

6. Under "Preview & Size" tab, ensure the X and Y origins are set for "0".

7. In the "Print" menu, "Print Setup" window, select the "Marks" tab and check to see that "Print Label" is not enabled.

8. Print the selected job(s). Be sure it is aligned to the right.

9. At the end of the print, place a small flag at the edge of the print. Make sure it extends out from the side of the media and is secure. This will identify the beginning of the second side of the print.

10. When all "Side One" jobs are completed, advance approximately 10 feet of media prior to cutting the substrate. This will allow for an ample leader to leader to load the media on the second side and area to perform maintenance, if necessary.

> ***Note:*** Also be cognizant of the "Space Between Print" settings as this will effect how much leeway you have to line up prints on the second side.

> ***Note:*** Providing a minimum of 1" bleed on each side will help bleed to ensure usability of both sides of the output.

Double Sided Printing: Printing the Second Side of the Graphic

11. Remove the roll of printed media from the front of the printer and use it as the new supply roll.

12. Select "Load Media" from the Control Panel.

13. When prompted, specify "second-side" in the control panel, and complete loading the substrate.

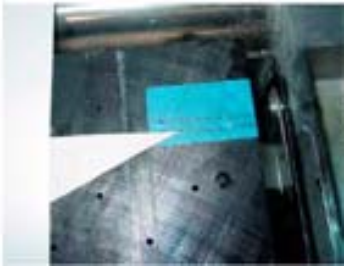
> ***Note:*** Determining the proper rotation for the second side image can be confusing. Creating a mock up may be useful. Cut a strip of paper, draw your front side images, and roll it like it would be rolled on the printer, note how the second-side image will need to be rotated to match the first-side.

14. Send the job to be printed to the Arizona 600 printer.

15. Prior to beginning the second side of the print job, the printer will prompt you to adjust the second side media forward or backward into the correct print position.

16. "ACCEPT" and using the +\- keys align the Print Point mark you made on the media with the mark on the platen from above. When done, press "Accept" and the printer will begin the printing process for the second side of the print.

8-Pass Line-Up



4-Pass Line-Up

Double Print

1. Prior to printing the selected image, select "Double Print" from the "Operator/Print Parameters" menu.

2. Begin printing. At the end of the job, the printer will complete drying the job and rewind the media to approximately the beginning of the print.

   You will then see:
   Adjust Media Position
   Accept or Cancel

3. Press ACCEPT. You then see:
   Double Print Media Position
   Adjust Media [+/-] --> done

   Use the +/- buttons to align the print to the mark you made on the media. When done, press ACCEPT and the printer begins double printing the selected job.

   If you press CANCEL at the **Adjust Media Position, Accept or Cancel** message, the printer begins double printing without allowing you to adjust the media position. The printer rewinds the media slightly before the start of the original print. The second print is likely to be offset from the first print. Pressing CANCEL is not recommended.

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