



Maintenance Manual and Checklist

Fast T-Jet® Blazer

TJB-1650

A Product of



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Tempe, Arizona USA

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We strive to continuously make improvements to our Inkjet-to-Garment printing system and we reserve the right to make product changes and improvements. ***This manual contains the latest and most accurate information as of its publication date.*** Some product photos or descriptions within this Manual may vary slightly from the currently shipping machine.

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Preventative Maintenance and Problem Solving

Your Fast T-Jet Blazer should work trouble free IF you take the time to understand and perform the necessary maintenance. 95% of our Technical Support calls come from people who have not maintained their machines properly. While it may appear to be “just” an inkjet printer, it is a VERY SPECIAL inkjet printer. When printing on garments, it must print A LOT more ink than when printing on paper. This can, and will, cause excess ink to coat internal parts if the machine is not maintained on a regular basis.

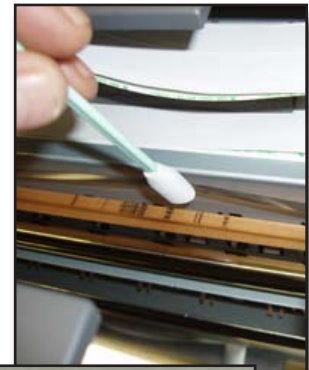
When printing onto Dark shirts with White ink, the use of a Pretreatment is necessary. This Pretreatment is sticky and, if it's sprayed near a machine, it can coat the internal components of the printer. In addition, inkjet printers in general do not like hot, dry room conditions or a dusty, dirty shop.

Be aware of the climate and conditions in which you use and store your machine. You have made a substantial investment in your business when you purchased your Fast T-Jet Blazer. In order to get the most out of it, please take the time to learn the simple steps that will keep your printer happy and making you money.

Keep Your Encoder Strip Clean

A main concern of many who call our Support Department is when the printer gets “confused” while printing an image. The way an inkjet printer tells the Print Head what and where to print is by using a thin piece of film called an Encoder Strip. A dirty Encoder Strip can cause everything from images printing in the wrong location and large blocks of ink spraying on the shirt to double-images, dark bands across the print, thin horizontal lines and much more.

While in motion, the Print Head continually receives data through this strip. Should the strip become coated with lint from shirts or ink from Overspray, it can confuse the printer.



Even very small amounts of dirt can interfere with the exchange of data between the Print Head and the Encoder Strip. To avoid this situation, perform daily and weekly maintenance on the unit as suggested in this section.

Clean the Encoder Strip DAILY



Press the Carriage Release Button (page 25) to free the Print Carriage from the Capping Station. Manually move the carriage to the center of the Assembly. This will allow you to clean the capping station side of the Encoder Strip.

You can use foam-tipped swabs, water, glass cleaner or cleaning fluid, but for best results use Isopropyl Alcohol pads. Do NOT use Rubbing Alcohol pads. Wrap the alcohol pad around both sides of the Encoder strip and gently move the pad in both directions. If the pad becomes black, use a new pad and clean the Encoder Strip again. Manually return the Print Carriage back to the Capping Station to clean the rest of the Encoder Strip.

Allow the Encoder Strip AIR DRY.



The Encoder Strip is actually translucent with small marks on it. Be careful to NOT scratch it or the Print Head sensor will not read it correctly. Only use FOAM TIP cleaning swabs or Isopropyl Alcohol Pads when doing any maintenance or cleaning inside your Fast T-Jet Blazer.

Turning Off Your Printer

Turn OFF the machine at night using the Circuit Breaker Switch. Wait for the printer to completely power down (the Print Carriage will dock onto the capping station), then turn off the main Power Switch located next to the AC cord. DO NOT turn off your printer at the power strip.

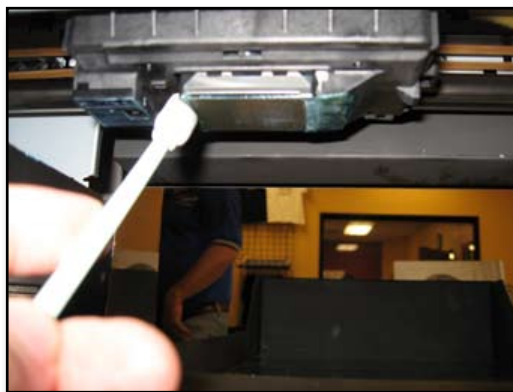
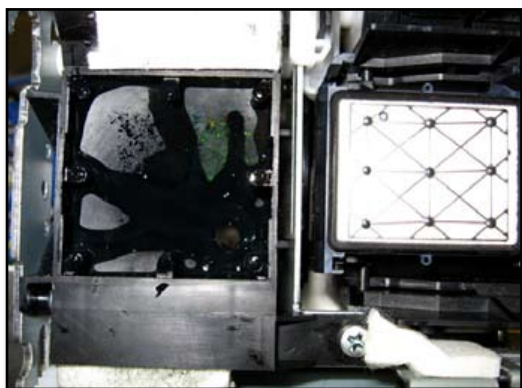


Do Not Overfill the Bulk Ink Bottles

When refilling the bulk ink bottles, STOP at the 200ml line marked on the front of the bottle. This will prevent excess pressure from building up within the cartridge, which can cause ink to drip from the Print Head.



Check Spit Tray Regularly/ Clean Capping Station and Print Head Daily



The Spit Tray/Flushing Box assembly collects ink very quickly. Check it regularly and clean it throughout the day as necessary to prevent ink spills on printer components and random ink drops on garments.

The Capping Station is the rectangular piece onto which the Print Head seats. Ensure the outer rubber seal is free from dried ink and garment fibers. Ink residue around the edge of the Capping Station may keep the Print Head from sealing properly. This will cause Print Head clogs. Be aware that White ink will build up faster and thicker than regular colors. Use a foam swab, water, glass cleaner, cleaning fluid or Isopropyl Alcohol to keep this clean.



When cleaning the Capping Station, be careful NOT to move it out of position or the Print Head will not seat properly. If you push down on it too hard, it WILL move off of its mount. When cleaning the Print Head, only clean the around the sides, DO NOT touch the Nozzles.

Humidity and Environmental Control

Controlling the environment in which your Fast T-Jet Blazer “lives” is a must! During the cold winter months, dry heat is often pumped into a room- This is not a good thing for inkjet printers! They prefer humidity levels of 40% to 80%.

If your room is dry, place a humidifier in the room and buy an inexpensive hygrometer from Radio Shack, Target, Wal Mart etc. to measure the humidity level. In the summer months, if the humidity is too high, use a dehumidifier. Try very hard NOT to place this machine in a dusty, dirty or non-climate controlled environment (like a Screen Printing shop or a garage). For best results, place the printer in a dust free room with air-conditioning.



In addition, DO NOT not allow fans to blow air across the Print Head. This will dry the ink and cause a clog, seriously effecting your printer's performance.

Print With the Lid Closed

Due to the airborne nature of the White ink Pretreatment, you should try to pretreat shirts in a different room or far away from the machine. If pretreating in a different room is not an option, then make sure the lid on the printer is kept closed at all times, especially during the print process. Pretreatment will immediately clog the Print Head if it comes in contact with any ink. We strongly suggest creating a separate enclosed area, such as a large cardboard box as an absolute minimum. This will help keep overspray away from Print Head and the Encoder Strip as well.

Preparing your Fast T-Jet Blazer for Downtime



*We recommend you schedule Automatic Head Cleanings every 6 to 8 hours using FastRIP. This will help prevent Print Head and Capping Station issues caused by dried ink. This is especially important if the printer will be idle longer than **ONE** day (24 hrs). Refer to Chapter 7 of your FastARTIST User's Manual for details on configuring this feature.*

In the event your Fast T-Jet Blazer is going to **sit more than 30 days without use**, you MUST:

1. Remove all of the bulk ink cartridges and replace them with cleaning solution cartridges.

Perform a minimum of 2-3 Power Cleanings to flush ink from the Ink Lines. Perform as many Power Cleanings as needed until all of the Ink Lines are Clear. Then execute one more Power Cleaning to thoroughly flush the system. (Refer to Chapter 2 for instructions on executing Power Cleanings.)

2. Ensure the Print Head docks securely on the Capping Station with no visible gaps.
3. Power OFF the printer from the UI, flip the Breaker Switch to the OFF position and unplug the printer from its AC source.



DO NOT RUN A NOZZLE CHECK WITH CLEANING CARTRIDGES.
Cleaning solution will leak out into printer, causing serious damage.

Other Hints and Tips

Eliminating Ink Drops on Shirts

When you perform a Head Cleaning, ink is forced through the Nozzles and the Print Head is cleaned and wiped by the printer. On occasion, this may not clean away small pieces of shirt lint that collect around the base. This excess lint can create ink build up, causing ink to drip onto a garment. Using a foam tip swab, water, glass cleaner, or cleaning fluid, clean any lint and ink residue off the edges.



BE CAREFUL not to rub the bottom of the Print Head. This is where the actual Nozzles are located and they can be easily damaged.

Clean Bulk System Computer Chips

The small computer chips on the back of the ink cartridge can get dirty and not make good contact. If you get sporadic error messages on certain colors, clean the chips with a foam-tipped swab and Isopropyl Alcohol. A pencil eraser also works well for this task.

RAM and Your Computer

RAM is the temporary memory that your computer uses when processing complex data. RAM is NOT expensive and most computers ship with only 512mb of RAM, which is not enough, especially when using FastARTIST and FastRIP. Your computer should have 1 to 2 GB of RAM.

If using or upgrading to Windows Vista, you will need at least 2GB of RAM for proper operation of your printer and software.

When in Doubt – Unplug Everything

Sometimes inkjet printers just get “confused,” especially if you stop them in the middle of a run. If the printer is suddenly acting abnormally, turn everything OFF and unplug the power cord. Make sure to disconnect the USB cable between your Fast T-Jet Blazer and the computer to end data transmission that still may be occurring. Leave everything unplugged for a few minutes and then plug it all back in and start over.

You MUST cancel all print jobs for this to be effective or they may resume printing when you again turn ON the computer and printer.

Clean the Print Carriage Drive Belt Gear

During normal operating conditions, lint that is coated with Pretreatment can get caught in the Print Carriage Drive Belt Gear, located in the right rear of the housing. This lint will start to clog the gear and the belt will slip, causing the Print Carriage to jerk and/or not complete print jobs. Periodically check this gear and if necessary, clean it with a brush or computer vacuum. At the opposite end of the Printer Assembly is a Drive Belt Roller. Occasionally this component will require cleaning as well.



Print Carriage Drive Belt Roller and Gear

While performing maintenance on any internal printer part, make sure to avoid ANY contact with the Encoder Strip. It is fragile and can be easily damaged!

Shake Shirts or Preheat to Minimize Lint

T-Shirts generate a lot of lint and it is important to minimize the amount of lint inside your machine. Get in the habit of shaking a shirt before loading it. If you feel shirts you are using generate excess lint, use a Pet Hair Pickup Roller on the shirt after it is placed on the Shirtboard. You may also preheat them in a Heat Press for just a few seconds to flatten the fibers.

No Windex

The **Red** Plexiglas window on the top of your Fast T-Jet Blazer does not like Windex. Using this as a cleaning solution will cause the window to crack and possibly break over time. Use only a mild soap and water solution to clean this part of your printer. You may use Windex on the metallic sides and Platen, but take care not to allow ANY Overspray land on the window area.

Five Minute Daily Maintenance

Daily maintenance is a very critical part of keeping your printer performing at its best. By not following the required daily maintenance described below you will void your warranty as well as damage the machine.

Many of these items have been covered earlier in this Manual, but the following list will help you prioritize what maintenance items should be done on a regular basis.

- **Turn the Machine OFF at Night (if not using the Auto Head Cleaning function)**
Turning the machine OFF at night ensures the Print Head is capped properly on the Capping Station.
- **Perform a Head Cleaning(s) Every Morning and End of Shift**
After turning ON the machine at the start of the day, perform 3 to 4 Head Cleanings. Press and hold the Ink button for three seconds to initiate this process. Perform Head Cleanings at the end of a large shirt run and definitely at the end of each day.
- **Clean the Capping Station**
The capping station is the rectangular piece into which the Print Head seats. Make sure that the outer rubber seal is free from dried ink and garment fibers. Use a foam swab and distilled water, cleaning fluid or Isopropyl Alcohol to keep this clean.
- **Clean the Spit Tray/Flushing Box Assembly Regularly**
The Spit Tray/Flushing Box assembly collects ink very quickly. Check it regularly and clean it throughout the day as necessary to prevent ink spills on printer components and random ink drops on garments.
- **Clean the Print Head**
Clean any accumulated ink or garment fibers from around the sides and on the bottom of the Print Head with a foam tip swab, water, glass cleaner, or cleaning fluid. Clean only the sides of the Print Head, DO NOT touch the nozzles.
- **Clean the Encoder Strip**
During printing and Head Cleanings, the clear plastic Encoder Strip through which the head receives printing data can get dirty. The Encoder Strip is essentially the “brains” of the printer and if the Print Head can’t properly receive the data through the strip, it will get “confused” and print in the wrong location, laying ink where you don’t want any. Clean the Encoder Strip with a swab and glass cleaner or Isopropyl Alcohol pad.
- **Check your ink levels**
Visually check the ink levels of the bulk ink bottles for the following conditions:
 - Ink levels that are past the *Full Line* - ink might start to drip from the Print Head
 - Ink levels are too low - the ink tubes will run dry.

➤ **Monitor Waste Tank Levels**

When the Waste Tank is full, the LCD control panel display will read "Waste Tank Full." Because the LCD display is located under the printer cover, you will need to manually monitor Waste Tank levels throughout work day. If the Tank is full, it will be necessary to remove the Tank from the machine and change the pad(s). You must then use the Chip Reset Module to reset the Waste Tank chip. DO NOT reset the chip without checking the pad(s)! Failure to change the pad(s) when needed could result in severe ink spills and extensive damage to your printer!

Weekly Maintenance

(depending on amount of production)

➤ **Clean the Print Carriage Drive Belt Gear**

Clean it with a brush or computer vacuum. Make sure to avoid any contact with the encoder strip. It is fragile and can be easily damaged!

Monthly Maintenance

➤ **Lube the Rail Guides and Rails**

You will need to lubricate the Rails and Rail Guides on a Monthly basis to facilitate the Print Assembly moving smoothly during image output. This procedure will help prevent banding as well as several other image quality concerns.

1. Use a Grease Gun to inject a Lithium-based soap grease (White Grease) through the four Zerk fittings, but DO NOT over-lube- only one "squirt" per Guide is necessary.



A Grease Gun and Lithium-based grease can be purchased from most major Auto Parts stores. Connect the Grease Gun to the Zerk fitting pictured here to lube the Rail Guides. There are 2 Rail Guides per side, 4 total.

Lubricating the two Main Rails will prevent oxidation (rust) and debris build-up, allowing the Printer Assembly to travel freely. This will help prevent registration issues that can occur in multiple pass prints.

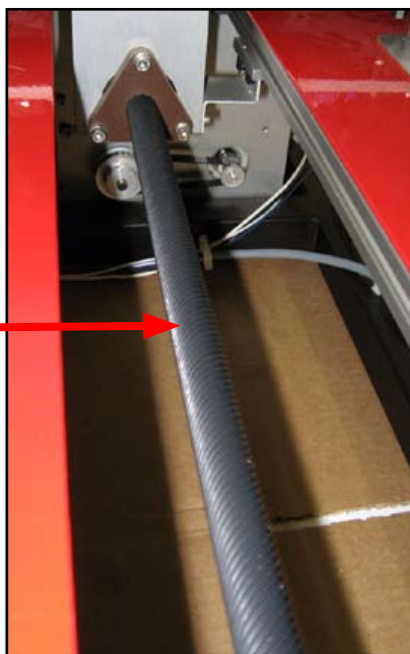


Main Rail- One per side
Two in Total

2. To correctly lubricate the Main Rails, apply a very THIN coat of the same Lithium-based grease used for the Rail Guides. Spread the White Grease along the ENTIRE length of both Rails using a clean, lint-free cloth. DO NOT use any other lubricate, such as WD-40 or Machine Oil, or you risk contamination of the Rail Guides.

Do Not Lubricate the Drive Screw

The Drive Screw MUST NEVER be lubricated or wiped off with a chemical solvent. This is due to a special coating that has already been placed on the Drive Screw to prevent dust buildup that could potentially hinder the fluid movement of the Printer Assembly. Treating the Drive Screw will allow dust buildup, contaminating the drive mechanism.



Drive Screw

Daily and Weekly Maintenance Schedule Checklist

This Checklist should be used as a guide to ensure critical maintenance is performed on a regular basis. The Checklist may also be downloaded from www.screenprinters.net.

Maintenance Tracking Schedule

Daily Tasks Performed * Perform a nozzle check before printing.		Date: / /	Initials:
<input type="checkbox"/> Check Ink Levels <input type="checkbox"/> Clean Capping Station and Wiper <input type="checkbox"/> Clean Encoder Strip <input type="checkbox"/> Head Cleanings (beginning & after shift) <input type="checkbox"/> Clean Print Head <input type="checkbox"/> Power Off at End of Day	Comments / Notes		
Daily Tasks Performed * Perform a nozzle check before printing.		Date: / /	Initials:
<input type="checkbox"/> Check Ink Levels <input type="checkbox"/> Clean Capping Station and Wiper <input type="checkbox"/> Clean Encoder Strip <input type="checkbox"/> Head Cleanings (beginning & after shift) <input type="checkbox"/> Clean Print Head <input type="checkbox"/> Power Off at End of Day	Comments / Notes		
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Daily Tasks Performed * Perform a nozzle check before printing.		Date: / /	Initials:
<input type="checkbox"/> Check Ink Levels <input type="checkbox"/> Clean Capping Station and Wiper <input type="checkbox"/> Clean Encoder Strip <input type="checkbox"/> Head Cleanings (beginning & after shift) <input type="checkbox"/> Clean Print Head <input type="checkbox"/> Power Off at End of Day	Comments / Notes		
Weekly Tasks Performed			
		Date: / /	Initials:
<input type="checkbox"/> Check and Clean Cap Assembly <input type="checkbox"/> Clean Drive Belt <input type="checkbox"/> Check Waste Ink Pad	Comments / Notes		
Monthly Tasks Performed			
		Date: / /	Initials:
<input type="checkbox"/> Lube Rail Guides <input type="checkbox"/> Lube Rails	Comments / Notes		



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Utilities to Improve Print Quality

A typical print problem that can occur is when lines are missing in the final image. This is called banding and it can happen for a variety of reasons. The most common reasons for banding are a dirty or clogged Print Head, or one that is misaligned.

If your prints are unexpectedly light, or dots or lines are missing, you may need to clean the Print Head. If you allow one of the ink bottles on the bulk ink system to run dry or if your printer has been sitting for a few days without use, you will need to clean the Print Head.



U.S. Screen is not liable for any damage caused by ink to property such as carpets, flooring or furniture . Please read and understand all operating and maintenance procedures before using the Fast T-Jet Blazer.

Head Cleanings

Turn the printer ON by setting the breaker switch to the UP position. Wait five seconds for the **Red** indicator light and then press the **Orange** Power button on the UI.

There are two types of Head Cleanings available for use on the Fast T-Jet Blazer- a regular cleaning and a *Power Cleaning*. Both unclog the Nozzles so they can deliver ink properly. However, depending upon the severity of your problem, your only option may be the Power Cleaning. Be advised, a Power Cleaning will consume a lot of ink.

To prevent having to do Power Cleanings, we recommend initiating at least one regular head cleaning cycle each day. A Regular Head Cleaning cycle will also use a fair amount of ink, but not nearly as much as a Power Cleaning.

Power Cleaning

Power Cleanings are executed from the LCD Control Panel with the virtual dial in *Manual* on the Mode Select Screen of the UI:

- Place the printer in *Print* status.
- Return the printer to “Ready” status by pressing the RIGHT arrow button once.
- With the printer in *Ready* status, press the RIGHT arrow once.
- Press the UP arrow and scroll through the menu items until you come to “Maintenance.” Press the RIGHT arrow once.
- Press the DOWN arrow to scroll the menu items until you come to “Power Clean.” To execute a Power Cleaning, press the RIGHT arrow once.
- The LCD display will inform you of the Power Cleaning's status in percentages. At the 10% mark, the display will prompt you to move both blue levers adjacent the ink cartridges into the UP position.
- At the 20% mark, you will be prompted to move both blue levers into the DOWN position. You will again be prompted to move both levers at the 30%, 40% and 50% marks. At the 50% point, both levers will be in the DOWN position and you will not have to adjust them again during the power cleaning cycle.

Once the Power Cleaning is complete, the LCD Display will read “Ready.”

Regular Head Cleaning

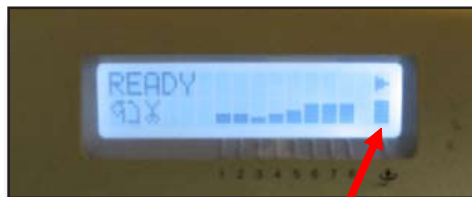
You can execute a regular head cleaning by simply holding down the RIGHT arrow button on the LCD Control Panel for 3 seconds. In addition, you should always turn your printer OFF when not in use to allow it to go through a regular head cleaning cycle on start-up.

Auto Head Cleaning (Optional from FastRIP)

A new feature of FastRIP 9.0 is the ability to *schedule* an **Auto Head Cleaning** session. One of the most common problems with printing white ink is the ink's tendency to clog the Print Heads. The ink must also be agitated on a regular basis to keep its pigments from settling within the bottle. The **Auto Head Cleaning** function tells the printer to perform a Head Cleaning during the night, helping to prevent ink settling and head clogging- leaving your Fast T-Jet Blazer ready to print first thing in the morning.

To utilize the Auto Head Cleaning function, you must set it up within the FastRIP interface on your computer. For the scheduled session to take place, **DO NOT** turn OFF your printer when you have completed your day.

Waste Tank Maintenance



Waste Tank Level Indicator

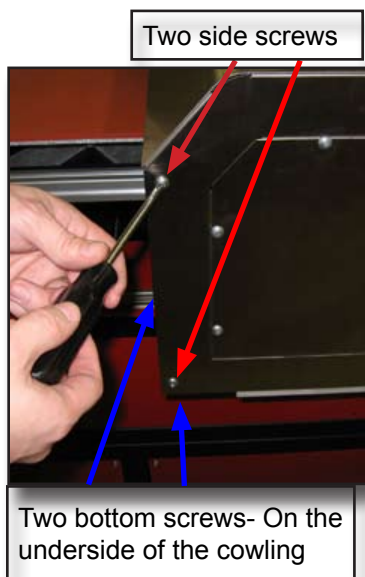
When the Waste Tank is full, the LCD control panel display will read "Waste Tank Full" and you will be unable to start any more print runs. (It will finish any images in progress.) Because the LCD display is located under the printer cover, you will need to manually monitor Waste Tank levels throughout the work day. If the Tank is full, it will be necessary to remove the Tank from the machine and change the pad. You must then

use the Chip Reset Module to reset the Waste Tank chip. Detailed instructions for performing these procedures are provided on a separate information sheet included with the bulk ink system.



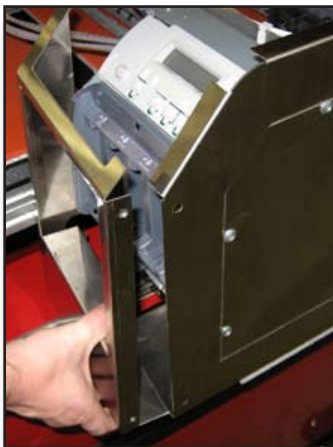
DO NOT get into the routine of just resetting the Waste Tank chip. It is extremely important you visually check the state the Waste Tank collection pads. If they look like they need replacing, replace them. Failure to change the Waste Tank pads when necessary WILL cause ink to overflow from the Tank and onto critical components of your printer. In addition to having a large mess to clean up, you may short the motherboard. This will be very costly in terms of downtime and repair expense. Damage from this type of incident is NOT covered by your warranty.

The Waste Tank is located below the bank of white ink cartridges and behind a metal cowling. To remove the enclosure, you will need to remove the four screws holding it in place- two on the side and two on the bottom.



Two side screws

Two bottom screws- On the underside of the cowling



After removing the four screws, gently slide the metal cowling free and the Waste Tank will be easily accessible. To remove the Waste Tank, slide it from its bin. To replace the Waste Tank after maintenance, slide it back into place and reattach the metal enclosure.

Perform a Nozzle Check

A *Nozzle Check* is used to ensure the Print Head is performing properly. You may use either paper or film for this test, but we recommend film such as FastPOSITIVE, available from U.S. Screen. Otherwise it's difficult to see White ink on White paper. To initiate a *Nozzle Check*:

1. Take the printer from *Print* to "Ready (Sheet)" status by pressing the LEFT arrow button twice. The LCD display will read "Ready" and you will see a "sheet of paper" icon. Only when in "Ready (Sheet)" status can the Printer Assembly be moved.
2. Using the "RIGHT hand" button, shuffle through the UI screens until you get to the *Mode Select* screen. Ensure the virtual dial is set to *Manual*.
3. Press the "RIGHT hand" button on the UI again until you reach the *Manual Mechanism Movement Utility (MMMU)* screen.
4. Place your sheet of film or paper on the *first* Shirtboard. The first position is furthest from the UI and power cables. Take care to align the film or paper with the Shirtboard's lower right hand corner (as you face the front of the printer.)
5. Under the heading *Position*, press the *Index* button. This will advance the Printer Assembly to the beginning of the Platen. Using the *Rev* button, position the Printer Assembly over the medium onto which you will print.
6. You must now change the printer mode to "Ready (Roll)." Press the LEFT arrow button on the LCD Control Panel twice. The display will read "Ready" with a "roll of paper" icon.
7. On Control Panel, press the RIGHT arrow once and the display will read "Printer Setup." Press the DOWN arrow once to see "Test Print."
8. Press the RIGHT arrow button once to see "Nozzle Check." Press the RIGHT arrow again and "Print" will appear in the display.
9. To execute the Nozzle Check, press the RIGHT arrow button once.

If the *Nozzle Check* does not print correctly, perform a regular Head Cleaning. This is done by holding down the RIGHT arrow button for 3 seconds. After the Head Cleaning has been completed, execute another *Nozzle Check*.



If, AT ANY TIME, you have performed three Nozzle Checks without rebooting your printer, you must power OFF your printer before executing another one.

Once you have obtained a satisfactory *Nozzle Check* press the Power OFF button on the UI. After the printer has completed its shutdown process, Power ON at the UI and perform a Print Head Alignment.

Print Head Alignment

In addition to the initial setup requirements, it may be necessary to perform a Print Head Alignment on other occasions such as:

- If the Print Head makes contact with *any* object- whether it's a garment or a Shirtboard
- If your prints contain vertical lines or misaligned parts of an image
- If you see banding of any kind

Please be aware, should the Print Head make contact with ANY solid surface, it may be permanently damaged and require replacement.

Whether you are performing the Initial Setup, or correcting minor printing concerns, the following steps are necessary to perform a Print Head alignment for your Fast T-Jet Blazer.



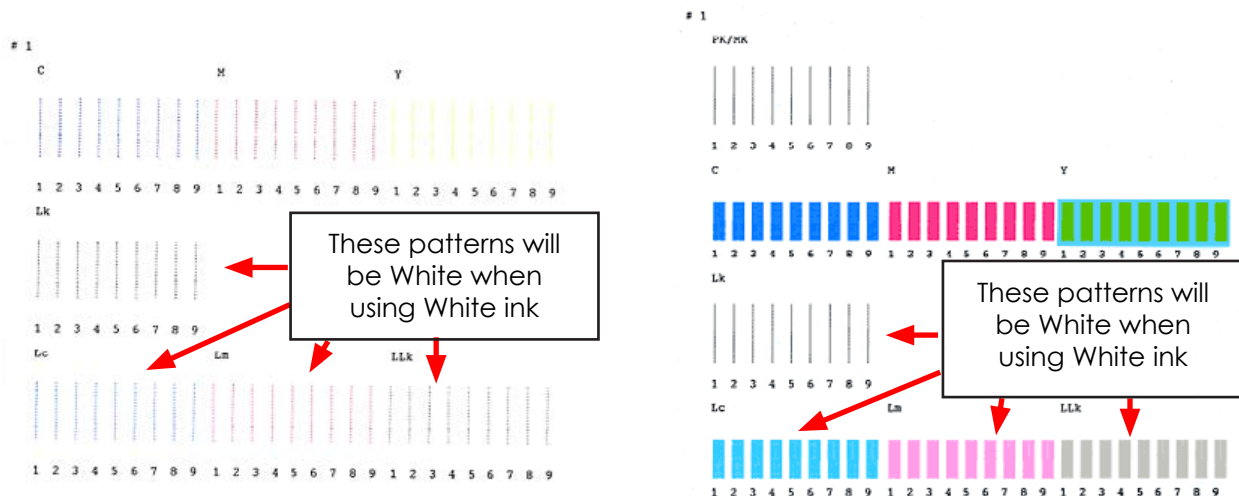
Performing a Head Alignment on a Fast T-Jet Blazer will require approximately 20-30 minutes. Before beginning this procedure ensure you are familiar with all the required steps, as well as having the necessary time to complete the process. Once you have begun a Head Alignment you CANNOT exit the function without shutting down the machine. In addition, early exit may result in severe misalignment of the Print Head or other operational concerns. Initial setup may require 2-3 alignment procedures to be completed.



You CANNOT skip this process during setup or your prints may suffer. Performing a precise and COMPLETE Head Alignment is extremely crucial to creating great images with your Fast T-Jet Blazer.

1. To begin the *Head Alignment* process, place your printer in “Paper Out (Roll Cut)” mode. The LCD Display will read “Paper Out” and display the “roll” icon in addition to the “scissors” icon.
2. Press the LEFT arrow button twice to get the LCD Display to read “Ready.”
3. On the User Interface, cycle through the various screens until you reach the Mode Select Screen. Make sure the virtual dial is set to “Manual.”
4. Use the “Hand Arrows” to reach the MMMU Screen. Use the *For* button under the heading *Jog* to move the Print Assembly forward approximately 4-6 inches.
5. On the LCD Control Panel, press the LEFT arrow once until it displays “Ready (Roll Cut).”
6. Prepare 1-2 sheets of film to cover an area 16” x 24” (41 cm x 61 cm) in size. You may also use paper to print the Head Alignment images, however it will be very difficult to see White ink on White paper. Align your paper or film with the upper left hand corner of Shirtboard #1.
7. From the UI MMMU screen press the *Index* button to move the Print Assembly to its *Index Position* (the front of Platen).
8. On the printer LCD Control Panel, hit the *Enter Key*/RIGHT Arrow button once. The LCD Display will read, “Printer Setup.”
9. Press the Down Arrow key 5x until the LCD Display reads, “Head Alignment.”
10. Press the *Enter* key once and the LCD will display, “Paper Thkns.”
11. Press the *Down Arrow* once to “Alignment.”
12. Press the *Enter* key once to see “Alignment Auto.”
13. Press the *Down Arrow* to see “Alignment Manual.”
14. Press the *Enter* key once and the LCD will display, “Alignment Manual Uni-D.”
15. Press the *Down Arrow* to select “Alignment Manual Bi-D All.”
16. Press the *Enter* key to begin printing.
17. The print process will take approximately 10 minutes. When it is complete, you will see two columns and three groups of lines (marked #1, #2 and #3) and color swatches. These groups will consist of:
 - 12 vertical lines numbered 1-9
 - 9 Swatches for each of the three colors **Cyan** (C), **Magenta** (M) and **Yellow** (Y) numbered 1-9

- 12 additional vertical lines numbered 1-9
- 12 Swatches for the 4 White nozzles labeled (Lk), (Lc), (Lm) and (LLk) and numbered 1-9



Each group will be identified by a number (1-3) and the designation PK/ MK. You will notice that there are two columns of identical groups. The first, or left hand column, will be used for calibration. The second column is only a duplicate image of the first column.

The LCD Display will read “#1 PK *5.” This refers to the *first* set of vertical lines (MK which refers to **Black**) numbered 1-9 in the *first* group. Carefully examine the printed lines and determine the cleanest/straightest line. Using the UP or DOWN arrow, cycle through the numbers 1-9 until it corresponds to the best line you have selected. Press the *Enter* key.

An asterisk (*) will appear in front of the number you have selected and then the LCD Display will read “#1 PK C *5.” The “C” in this next menu item refers to the **Cyan** color swatch. Examine the **Cyan** swatches and select the one closest to a perfect rectangle with no gaps or breaks in color. On the LCD Display, use the UP or DOWN arrow to cycle through the numbers 1-9 until it corresponds with the best rectangle you have selected. Press the *Enter* key.

An asterisk (*) will appear in front of the number you have selected and then the LCD Display will read “#1 PK M *5.” You must repeat the process of selecting the best line and rectangle for each set of colors and lines in **all three groups** before you have completed the *Head Alignment* process.

18. When the process is complete, the LCD Display will return to the main “Alignment Manual” menu or “Ready” status.



At this point, you MUST turn OFF the printer. You CANNOT print or perform any additional maintenance routines on your machine without powering OFF your printer upon completion of a Head Alignment. You do not need to perform a complete shut down- turning OFF the power by using the UI is sufficient.

After your printer has completed its shutdown cycle, you may turn it back ON and either begin printing or perform another Head Alignment to check the results of your previous calibrations. Keep in mind, you may be required to perform 2-3 Head Alignment procedures to initially calibrate your machine for printing.



If you perform another Head Alignment, you will again be required to choose and enter the best lines and color swatches from each group. You CANNOT exit early from this routine. If you do not wish to make any further changes, just accept the default values (by pressing the Enter key) as they appear in the LCD Display until the routine is complete.



For additional information on the UI Screens, using the Epson LFP Remote Panel or Setting the Platen Height, please refer to your Fast T-Jet Blazer User's Manual.

Print Head Replacement

In the event that the Print Head strikes a garment, Shirtboard or other object, the Print Head will probably need to be replaced. If you leave the printer unattended for long periods of time, a serious clog may result and the Print Head will probably need to be replaced.

Replacing the Print Head takes less than 30 minutes and there is an instructional video available online at www.screenprinters.net. You can also download an Installation Guide in PDF format for reference. Replacement Print Heads are available from U.S. Screen Print and Inkjet Technology or possibly your dealer.

If you are dependent upon your **Fast T-Jet Blazer** and cannot afford to be down for a few days, we recommend keeping a replacement Print Head in stock.



Print Heads are not covered by your Warranty except in case of Manufacturer's Defect. If your Print Head is damaged as the result of a Head Strike or it becomes permanently clogged by ink due to a lack of maintenance, you will be responsible for the cost of replacement, to include shipping charges.