

# **Basic Maintenance Guide**

T1000





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# **EFI Inkjet Solutions**

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# Periodic Maintenance Procedures

This guide contains a list of maintenance tasks and procedures for completing each task.

# **Maintenance Procedures**

The T1000 printer requires periodic maintenance according to the following time frames: <u>Every 2 Hours of Operation</u>, <u>Every 4 Hours of Operation</u> <u>Daily Maintenance</u>, <u>Weekly</u> <u>Maintenance</u>, <u>Monthly Maintenance</u>, <u>Quarterly Maintenance</u>, and <u>Semi Annual Maintenance</u> items.

**Caution!** You must read and understand the following documents prior to operating or servicing this printer:

- Printer Safety Guide: <a href="https://inkjet.support.efi.com/doc.php?doc=683">https://inkjet.support.efi.com/doc.php?doc=683</a>
- Basic Operator's Guide: https://inkjet.support.efi.com/doc.php?doc=1669

# **Maintenance Log**

The <u>T1000 Maintenance Log</u> provides you with a list of preventive maintenance tasks, as well as the means for tracking the completion of each task. The log has sections for hourly, daily, weekly, monthly, quarterly, semi-annual, and annual maintenance procedures.

Note: Use the Maintenance Log to record your completed maintenance tasks.

# **Before Starting**

Follow these guidelines for the most efficient maintenance routine.

- Verify that you have all the materials required to complete each maintenance procedure.
- Perform all maintenance tasks on a routine schedule either before or after printing.
- When filling out the Maintenance Log, record the current date and time (if applicable), and write your initials in the space provided.
- The guidelines for maintenance are based on a production schedule of eight hours of printing, five days per week. Adjust your maintenance intervals if your operating shifts are longer than eight hours, five days per week.
- Please keep your <u>T1000 Maintenance Log</u> current. During service visits, a Field Service Engineer often reviews your maintenance records.

# **Every 2 Hours of Operation**

Perform the following task every two hours of printer operation.

# 1. Vacuum print head surfaces and print head plate using the included vacuum and head attachment

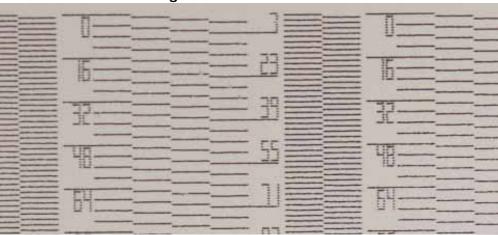
A. Follow the instructions in the <u>Basic Operator's Guide</u> for proper print head vacuuming procedures.

# **Every 4 Hours of Operation**

Perform the following task every four hours of printer operation.

# 1. Print a Nozzle Check; purge and vacuum print heads after test, if necessary

- A. Print a Nozzle Check test as outlined in the Basic Operator's Guide.
- B. Review test results using a 30x or stronger eye loupe.
- C. If nozzles are missing, purge and vacuum print heads as required to reclaim missing nozzles.



#### Figure 1-1: Nozzle Check

# **Daily Maintenance**

Perform the following tasks every eight hours of production.

## 1. Check ink bottle levels

- A. Lift each ink bottle to determine the remaining ink.
- B. Replace empty ink bottles as outlined in the **Basic Operator's Guide**.

**Note:** Check ink bottle levels more often during times of increased printing production.





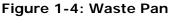
## 2. Check waste tray level

A. Park the carriage in **Home** position.

#### Figure 1-3: Waste pan door (1), front of carriage



- B. Place a waste container on the floor beneath the carriage to capture the waste ink.
- C. Open the waste pan door.





- D. Slowly remove the waste pan and pour contents into the waste container.
- E. Replace the waste pan and close the waste pan door.
- F. Dispose of waste inks in accordance with local site requirements.

## 3. Verify Carriage Head Height

A. Check the carriage head height as outlined in the **Basic Operator's Guide**.

## 4. Wipe dust and debris from the carriage end plate

A. Wipe off the carriage end plate using a clean knitted polyester wipe saturated with isopropyl alcohol.



Figure 1-5: Carriage End Plate

## 5. Print a 1'x1' section of White

- A. Open (or create) a white image measuring approximately 1' x 1' (30cm x 30cm).
- B. Load a dark color media on printer and print the 1'x1' block of white.
- C. Analyze image with a 30x or stronger eye loupe.
- D. If nozzles are missing, purge and vacuum heads as outlined in the <u>Basic Opera-</u> tor's <u>Guide</u>.

# **Weekly Maintenance**

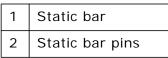
Perform the following tasks every week of printer operation.

## 1. Clean static bars and pins, if equipped

- A. Unplug the Static Bar power cord.
- B. Brush static bars on each side of printer carriage, <u>Figure 1-6</u>, with a stiff nylon bristle brush to remove debris.
- C. Plug in Static Bar power cord.



#### Figure 1-6: Side view of carriage and static bar



## 2. Clean linear encoder strip

- A. Park the carriage in **Home** position.
- B. Wipe down the entire length of the linear encoder strip with a clean knitted polyester wipe dampened with Isopropyl Alcohol to remove ink and debris.
- C. Move carriage to opposite printer end and repeat step B.



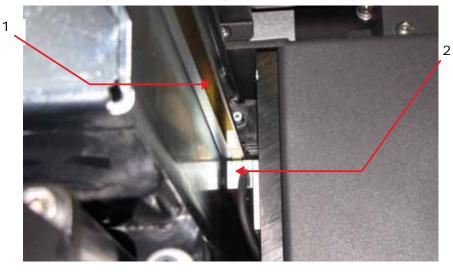


1	Encoder read head
2	Encoder strip

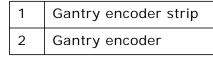
# 3. Clean gantry encoder strip

A. Park the gantry in **Home** position.

B. Wipe down the entire length of the gantry encoder strip with a clean knitted polyester wipe dampened with Isopropyl Alcohol to remove ink and debris.



#### Figure 1-8: Top right side of carriage



# 4. Clean UV lamp housing air filters

**Note:** Ensure carriage fans are off before cleaning filters.

A. Remove plastic filter assembly.



Figure 1-9: Left UV light fan filter (1)

B. Remove dust and debris from filter using a toothbrush or similar brush. **Note:** Never use a metal or stiff bristle brush, as this can damage the filter.

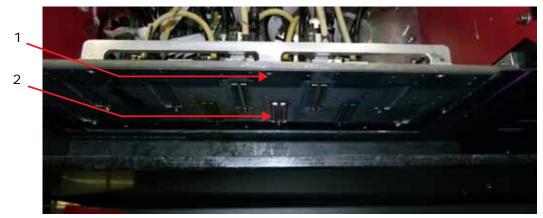
- C. Vacuum filter assembly clean.
- D. Replace filter assembly.
- E. Repeat for opposite UV filter.

## 5. Wipe down Jet Plate

- A. Park the carriage in **Home** position.
- B. Open waste pan door and remove waste pan.
- C. Wipe jet plate with a clean knitted polyester wipe saturated with Flush Solution.

Caution! Do not wipe the faces of the print heads during this procedure.

#### Figure 1-10: Jet plate, bottom of carriage



1	Jet Plate
2	Print head

## 6. Inspect Carriage Rails

- A. Inspect entire length of top and bottom carriage rails and wipe off large debris with a clean, dry knitted polyester wipe.
- B. Alternate carriage position from Home end to opposite end daily when inspecting the carriage rails.

# **Monthly Maintenance**

Perform the following tasks every month of printer operation.

## 1. Vacuum the umbilical assembly and shelf

- A. Park the carriage in **Home** position.
- B. Vacuum umbilical assembly and carrier shelf, Figure 1-11.



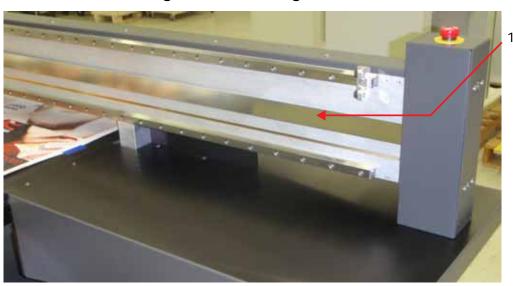
#### Figure 1-11: Cable and ink bundle carrier shelf

1	Cable and ink bundle carrier
2	Cable and ink bundle carrier shelf

## 2. Clean Carriage Drive Belt

- A. Park the carriage in **Home** position.
- B. Wipe down entire length of exposed carriage drive belt using a clean, knitted polyester wipe dampened with Isopropyl Alcohol.
- C. Move carriage to opposite end and repeat step B. for the other belt end.

# **Caution!** Use extreme care when cleaning this metal belt, as the edges are sharp and present a cutting hazard.



#### Figure 1-12: Carriage Drive Belt

1 Carriage drive belt

## 3. Soak Print Heads; Vacuum Print Heads and Jet Plate

- A. Park the carriage in **Home** position.
- B. Turn off UV lamps and allow lamps to cool.

**Danger!** To prevent potential fires, never place materials under the carriage if UV lamps are either on or hot.

- C. Cover a 8" x 19" piece of foam core with plastic wrap, then cover entire piece with clean Knitted Polyester Wipes.
- D. Saturate wipes with approved Flushing Solution.
- E. Raise carriage and place foam core under jet plate; foam core should be identical in size to the jet plate.
- F. Lower carriage onto foam core and soak for a minimum of one hour or overnight.
- G. After soaking, remove foam core; discard wipes and plastic wrap.

H. Vacuum clean print heads and jet plate as described in the <u>Basic Operator's</u> <u>Guide</u>.

# 4. Wipe down and Grease Carriage Rails

- A. Park the carriage in **Home** position.
- B. Wipe down entire length of top and bottom carriage rails with a knitted polyester wipe to remove existing grease and debris.
- C. Apply a thin coat of lithium grease to the three exposed sides of the top and bottom carriage rails.

# **Caution!** Care should be taken not to get grease or fingerprints on the linear encoder strip.

- D. Move carriage to opposite printer end.
- E. Wipe down and grease carriage rails where carriage was parked as outlined in steps <u>B.</u> and <u>C.</u> to complete cleaning and greasing procedure.

# **Quarterly Maintenance**

Perform the following task every three months of printer operation.

## 1. Clean printer cabinets and components

- A. Shutdown printer as outlined in the Basic Operator's Guide.
- B. Remove electronics cabinet cover.
- C. Using a vacuum with brush attachment, remove dust and debris from components, fans, boards, and any other locations where dust and debris collects, such as cabinet corners and fan exhaust ports.
- D. Replace electronics cover.



#### Figure 1-13: Printer Electronics Cabinet

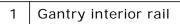
# 2. Wipe down and Grease Gantry Rails

- A. Park the gantry in **Home** position.
- B. Wipe down entire length of exposed gantry rails with a knitted polyester wipe to remove existing grease and debris.
- C. Apply a thin coat of lithium grease to the interior gantry rails.

**Caution!** Care should be taken not to get grease or fingerprints on the gantry encoder strip or the Gantry drive screws.



Figure 1-14: Gantry rail



- D. Move gantry to printer front.
- E. Wipe down and grease gantry rails where gantry was parked as outlined in steps <u>B.</u> and <u>C.</u> to complete cleaning and greasing procedure.

# **Semi Annual Maintenance**

Perform the following tasks every six months of operation.

## 1. Replace all primary ink filters

A. Locate primary ink filter for each color. See Figure 1-15.

#### Figure 1-15: Primary Ink filters - six total





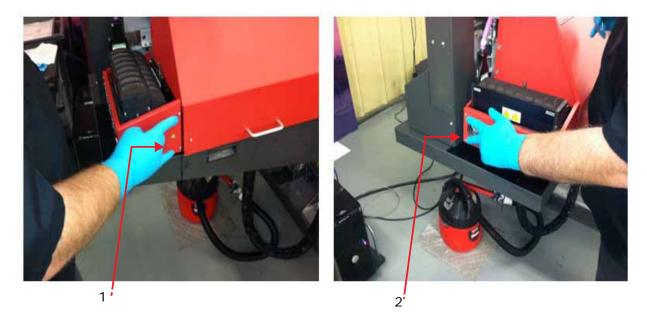
B. Pinch ink lines with hemostat pliers near ink filter.

Note: Place a cloth under each filter, as ink will flow from ink filter and tubes.

- C. Unscrew and remove primary ink filter from ink line.
- D. Unscrew and remove filter from printer and discard old filter.
- E. Thread new filter into printer frame and tighten by hand.
- F. Thread ink line into new filter and tighten by hand.
- G. Repeat for remaining filters.
- H. Perform an Ink Purge as outlined in the <u>Basic Operator's Guide</u> to remove air in the ink lines.

- A. Shut OFF Lamps.
- B. Check to ensure the UV bulbs have cooled properly. Allow bulbs to cool if still hot.
- C. Shutdown the T1000 printer (optional)
- D. Perform a "Lock-Out, Tag-Out" on the printer.
- E. Remove four screws from on the front and side of the enclosure to access the Bulb Base. Set screws aside to be reused.
- F. Pull the enclosure clear of the Bulb Base and allow it to hand beside the carriage allowing access to the Bulb Base.

#### Figure 1-16: UV Lamp Enclosure Screw Locations

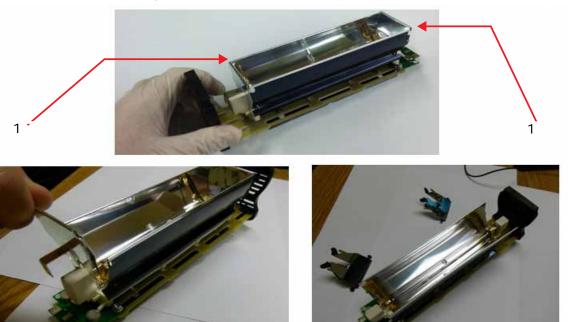


1	Front Screws
2	Side Screws



1	Enclosure Cover
2	Bulb Base Screw
3	Bulb Base

- G. Lift the enclosure cover and set it to the side of the carriage.
- H. Remove the Bulb Base support screw.
- I. Slide the Bulb Base out of the housing

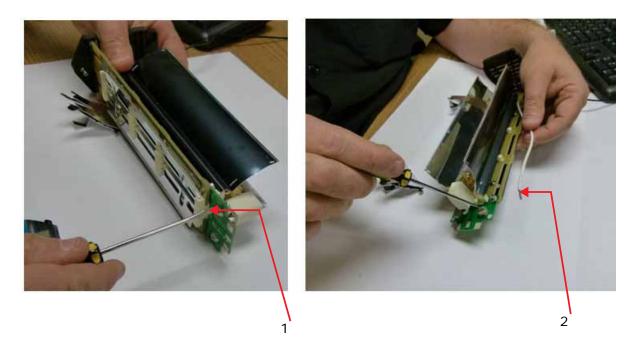


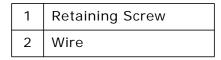


- J. Carefully observe the position of the end deflectors and make notes to ensure proper reassembly.
- K. Bend the two small tabs on the outside of the End Reflectors so they can be removed.
- L. Remove the End Reflectors and set aside for re-installation.

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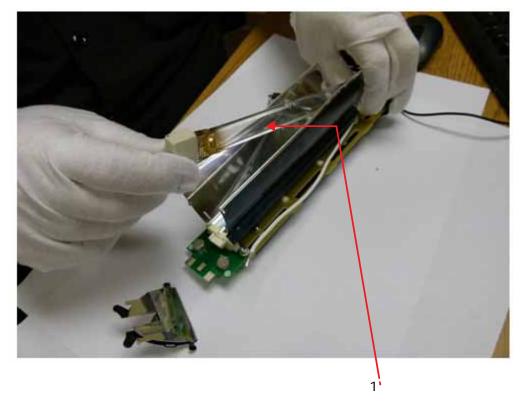
### Figure 1-19: UV Bulb Terminal Block Disconnect





- M. Turn the UV Bulb Base over to expose the Bulb Lead Retaining Screws
- N. Loosen the Bulb Lead Retaining Screw on the UV Bulb Terminal Block.
- O. Remove the wire from the clips leading to the UV Bulb Terminal Block on the other side.

#### Figure 1-20: UV Bulb Replacement



1 T1000 UV Bulb

- P. Grasp the spent UV bulb and pull it away from the UV bulb base.
- Q. Install new UV bulb in the bulb base. Pay close attention to feeding the leads into the receptacle.
- R. Reroute the wire and tighten bulb lead retaining screw using a flat blade screwdriver.
- S. Replace end reflectors and bend metal tabs down to secure reflectors.
- T. Reinstall bulb base to lamp module and Secure using one screw set aside earlier.
- U. Slide lamp module back into place and secure with the one screw set aside earlier.
- V. Reinstall the enclosure covers and secure using four screws set aside earlier.
- W. Allow the bulbs to achieve full operating temperature before printing.

Instructions: Print the first page of the T1000 Printer Maintenance Log each week to maintain a record of daily and weekly maintenance activities. Print the second page once per year to maintain a record of monthly, quarterly, semi-annual, and annual maintenance activities. When a task is complete, enter your initials.

## Weekly Maintenance Chart: \_\_\_ /\_\_\_ to \_\_\_ /\_\_\_

Every Two Hours of Operation	[	Day 1	/ 1 Day 2		2	Day 3			Day 4			Day 5			Day 6			Day 7			
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1. Vacuum print head surfaces and print head plate using the included vacuum and head attachment.																					
Every 4 Hours		Day 1	1	Da	ay 2	2	l	Day 3	3		Day 4			Day	5		Day	6	D	ay 7	
Every 4 Hours	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1. Print a Nozzle Check; purge and vacuum print heads after test, if necessary.																					
Daily Tasks (Perform prior to Printing and every eight hours		Day 1	I	Da	iy 2	2	I	Day 3	3	I	Day 4	4 Day 5		5	Day 6		6	b Day			
1. Check the ink bottle levels and replace ink bottles which are very low or empty.																					_
2. Check waste tray level and empty if more than 3/4 full.																					
3. Verify carriage height setting as outlined in the Basic Operator's Guide.																					
4. Wipe dust and debris off carriage end plate with a clean <b>Knitted Polyester Wipe</b> (part# 45084568) saturated with <b>Isopropyl Alcohol</b> .																					
5. Print a 1'x1' section of White to keep white ink system functioning properly.																					

Weekly	Date	Initials
1. Clean static bars and pins with a soft bristle Brass Wire Brush, if equipped.		
2. Clean linear encoder strip with a clean Knitted Polyester Wipe (part# 45084568) dampened with Isopropyl Alcohol.		
3. Clean gantry encoder strip with a clean Knitted Polyester Wipe (part# 45084568) dampened with Isopropyl Alcohol.		
4. Clean UV lamp housing filters with toothbrush and vacuum any debris.		
5. Wipe down the jet plate using a clean Knitted Polyester Wipe (part# 45084568) saturated with Jet Flush Solution (part# 45080261).		
6. Inspect entire length of top and bottom carriage rails and remove any large debris with a dry, clean Knitted Polyester Wipe (part# 45084568).		

# T1000 Maintenance Log

Instructions: Print the first page of the T1000 Printer Maintenance Log each week to maintain a record of daily and weekly maintenance activities. Print the second page once per year to maintain a record of monthly, quarterly, semi-annual, and annual maintenance activities. When a task is complete, enter your initials.

#### Maintenance Chart for 20\_\_\_\_

Monthly	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sept	Oct	Nov	Dec
1. Vacuum umbilical assembly and shelf.												
2. Clean carriage drive belt with a clean Knitted Polyester Wipe (part# 45084568) and Isopropyl Alcohol.												
3. Lower carriage onto foam core covered with clean <b>Knitted Polyester Wipes</b> (part# 45084568) soaked with Flush Solution (part # 45080261) and soak for a minimum of one hour or overnight; after soaking, vacuum jet plate and print heads clean as described in the Basic Operator's Guide.												
4. Wipe down entire length of top and bottom carriage rails with a clean <b>Knitted Polyester Wipe</b> (part# 45084568) saturated with <b>Isopropyl Alcohol</b> ; grease top and bottom carriage rails with <b>lithium grease</b> (P8030-A), prior to moving carriage.												

Quarterly	Quarter 1	Quarter 2	Quarter 3	Quarter 4
1. Clean/remove dust from AC power cabinet, power supplies, exhaust ports, servo controllers, and all cabinet fans.				
2. Wipe down entire length of top and bottom gantry rails with a clean <b>Knitted Polyester Wipe</b> (part# 45084568) saturated with <b>Isopropyl Alcohol</b> ; grease top and bottom carriage rails with <b>Iithium grease</b> (P8030-A), prior to moving gantry.				
Warning! Never grease the gantry lead screws underneath the gantry rails.				

Semi Annually	January	July
1. Replace all primary ink filters with <b>Primary Ink Filters</b> (part# 45078587).		
2. UV Bulb Replacement		

Common Maintenance Items											
Description	EFI Part Numbers		Description	EFI Part Numbers	Description	EFI Part Numbers					
Lithium Grease	P8030-A		Knitted Polyester Wipes 4	5077321	Primary Ink Filter	45078587					
Cotton Gloves	P3775-A		Stiff bristle brush, nylon N	I/A	Print Head Flush	45080261					

Support			
	United States	Europe and Middle East	Other
Technical Support	+1 855-334-4457, ext. 4	+32 2 749 94 50	+1 650-357-4790
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The maintenance guidelines are based on a production schedule of eight hours of printing, five days/week. Adjust your maintenance intervals if your operating shifts are longer than eight hours of printing.

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