

Avery Dennison®

TrafficJet™ Printer Maintenance

Instructional Bulletin : # 9.02
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Regular maintenance on your Avery Dennison TrafficJet Printer is required to support proper functioning and a prolonged service life. The document summarizes the mandatory maintenance procedures for the printer. Should you have any questions, please contact your local authorized technical service representative, or email Avery Dennison Technical Services. The email addresses can be found in the disclaimer on the last page of this document.

IMPORTANT: Not properly maintaining your printer may lead to bad printing quality and/or expensive repairs!

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Completed Maintenance Sign Off Sheet

● Daily Maintenance

1. Nozzle Check

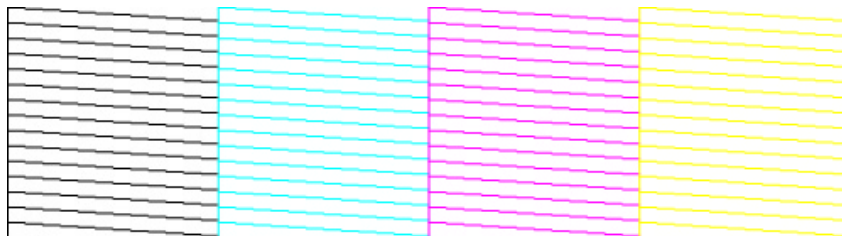
When to print a Nozzle Check

At least once every day, prior to printing or before any critical job. Another good moment is when you see print quality issues, artefacts or before contacting Technical Services about quality related issues.

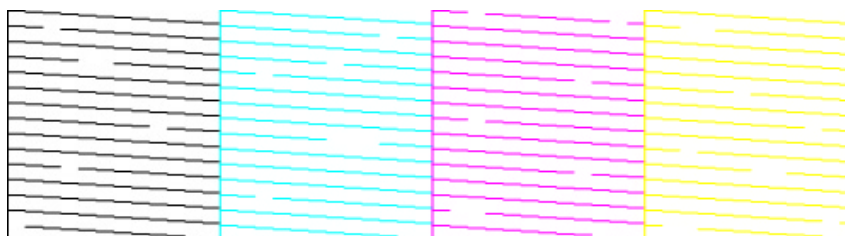
How to print a Nozzle Check

Click and hold the Left Arrow Button on the printer display for about 2 seconds until printer starts printing the Nozzle Check pattern.

How to read the Nozzle Check



Example of a good nozzle check. All individual nozzle lines are present.



Example of a bad nozzle check. Some lines or parts of a channel are missing.

TIP:

Sometimes the individual nozzle lines are hard to see, especially on prismatic sheeting. In that case, load white vinyl so it's easier to read the nozzle check. If you have issues seeing the yellow nozzle lines, you could buy a special flashlight with blue light that makes it easier to see yellow in general.

How to correct missing nozzles

Click the Right Arrow Button to choose between a Short, Normal and Long Cleaning Cycle. Two LED's indicate a Short Cleaning Cycle is set, the bottom LED indicates a Normal Cleaning Cycle is set and the top LED indicates a Long Cleaning Cycle is set.

- For more information about this topic, please visit reflectives.averydennison.com and read the document TrafficJet - Manual Cleaning Cycles IB# 9.10

To start a Cleaning Cycle press and hold the Right Arrow Button on the printer display for about 2 seconds until cleaning starts. The display will tell the progress in percents.

Start with a Short Cleaning Cycle first and once finished, print a new Nozzle Check and see if the quality has improved. Perform as many Cleaning Cycles as required to correct missing or misdirected nozzles.

2. Clean the Cappings, Wiper, Spitting Pad Absorbent and Print Heads*

IMPORTANT: Before performing any of these procedures and when working with Flush, make sure to wear proper protection for your eyes, skin (hands) and clothes!

Clean the Cappings

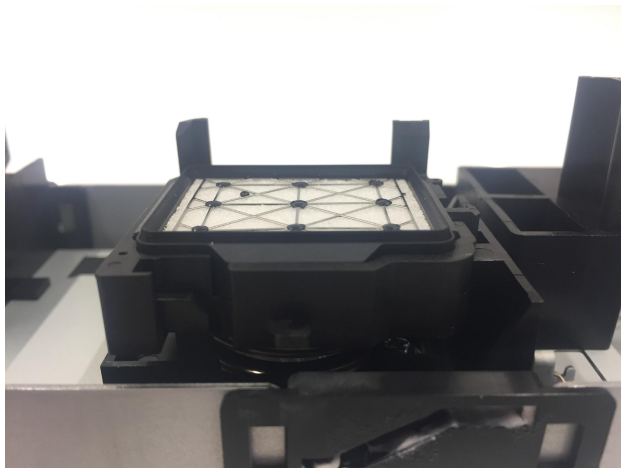
When to clean the Cappings

At least once every day, prior to printing or before any critical job. Another good moment is when you see print quality issues, artefacts or before contacting Technical Services about quality related issues.

Why clean the Cappings

Dried up ink and fibers will accumulate, settle and dry on the rubber edges of the Cappings. This will prevent the Cappings from creating an airtight seal and from properly protecting your Print Heads.

Also, inside the Capping, ink can start to accumulate. The Cappings are a crucial part of the Maintenance System of your TrafficJet™.



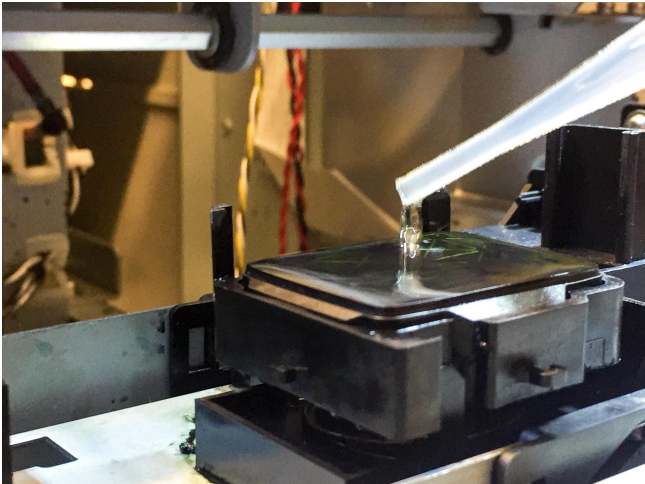
Start CR Maintenance

Press Menu, Right Arrow Button and press the Up Arrow Button 11x until you see Set 20 CR Maintenance. Click Enter, Enter. This will move the Carriage to the left side of the machine allowing you to access the areas for maintenance.

How to clean the Cappings

Open the right Maintenance Door, take a Swab, soak it in Flush and thoroughly clean the rubber edges of the Cappings. After cleaning the edges of the Cappings, wrap a Lint Free Cloth around your finger and remove all dried ink, fibers etc.

Be Careful: Do not apply excessive force on the Cappings as the plastic, sliding guides of the bracket may break.



Fill the Eye Dropper with Flush and fill both Cappings until you completely submerged both filters inside the Cappings. Let this soak for 1-2 minutes and click the Down Arrow Button on the printer display to activate the pumps. This action will clean the filters, pumps and tubes utilizing the Flush in the Cappings. After several seconds press the Down Arrow Button again to stop the pumps



After that, fill both Cappings again with some Flush and use a dry swab to suck out the Flush from the inside of the Capping, absorbing ink buildup from the Capping filter. Continue until it looks clean.

Click Enter to finish the CR Maintenance. This will return the Carriage back to its base position and you can continue printing.

Clean the Wiper Blade

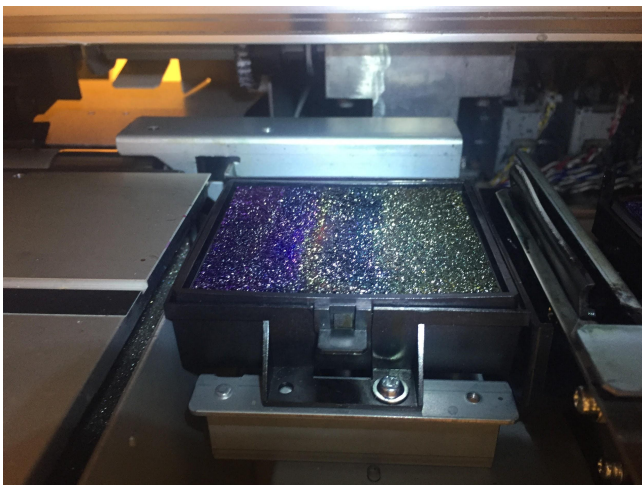
Take a Swab, soak it in Flush and clean the Wiper Blade. After cleaning the Wiper Blade with the Swab, wrap a Lint Free Cloth around your finger and remove all dried ink, fibers etc.



Fill the Eye Dropper (Pipette) with Flush and empty **2 full** Eye Droppers onto the Wiper Blade and into the bucket underneath. This will dissolve and remove dried ink in the plastic collector and tube under the Wiper Station and will help prevent clogging and ink leakage.

Clean the Spitting Pad Absorbent

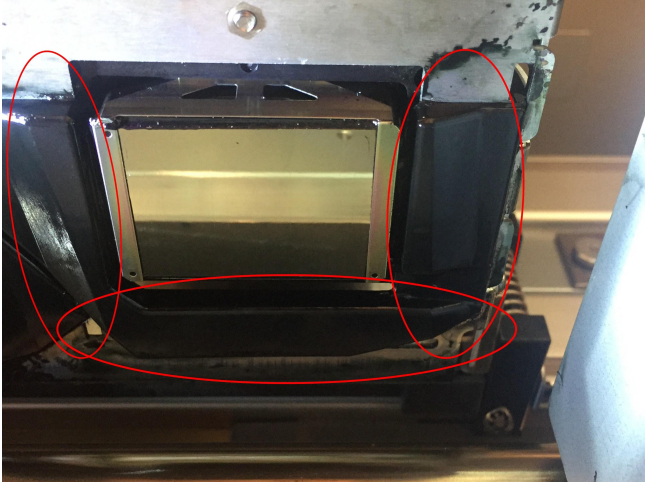
Fill the Eye Dropper/Pipette with Flush and empty **2 full** Eye Droppers on the Spitting Pad Absorbent. The Flush will soak the filter, dissolving the ink and cleaning the plastic collector and tubes under the Spitting Pad Absorbent and will help prevent clogging and ink leakage.



Clean around the Print Heads

Be Careful: DO NOT touch the face (nozzle area) of the Print Heads without a good reason as this might damage the Heads/Coating and be careful not to touch the media sensor located left, close to the Print Heads.

Because of ink Mist and Static Electricity, the black, protective plastic areas around the Print Heads will collect ink and fibers.



Open left Maintenance Door, take a Swab, soak it in Flush and clean around and between both Print Heads (black, plastic areas, between the plastic and Heads etc.) until all ink and fibers are removed. Finish by wrapping a Lint Free Cloth around your finger and clean and dry the area.

Finish CR Maintenance

Click Enter to finish the CR Maintenance. This will return the Carriage back to its base position.

■ Weekly Maintenance

1. Rock the ink Cartridges

Gently remove and rock each ink cartridge/bag at least once a week to ensure the pigment in the ink remains in the suspension.

IMPORTANT: To prevent ink dripping from the cartridge into the bay, tilt the cartridge bay into the horizontal position before removing and replacing cartridges.



2. Check the ink Expiration Dates

Check the labels on the Cartridges or Bags for the ink Expiration Dates.

IMPORTANT: DO NOT use inks after their ink Expiration Dates as this potentially can clog the ink delivery system and lead to expensive repairs.

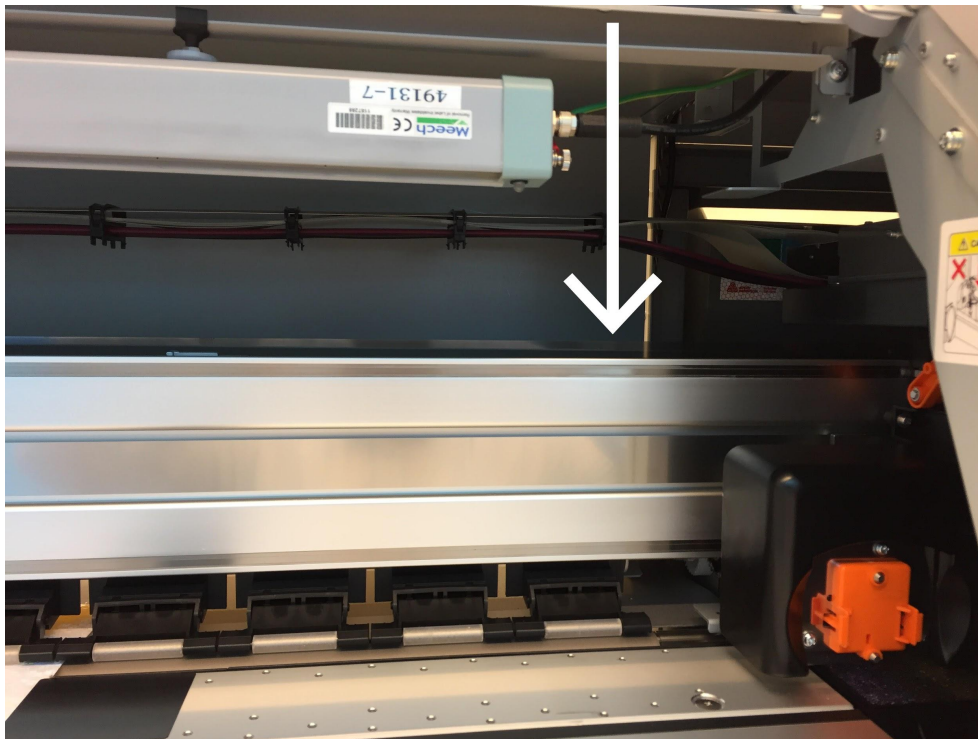
▲ Monthly Maintenance

1. Clean the CR Encoder

The CR Encoder Strip is responsible for communicating the position of the Carriage. As this plastic strip is inside the Print Area, ink Mist can collect and prevent the Encoder from properly reading the markings on the Strip.

Use a Lint Free Cloth and Mild Detergent and gently clean.

IMPORTANT: Do not use Flush or Isopropyl Alcohol, and be very careful not to damage or smear anything on the Encoder Strip as this will trigger errors.



2. Clean Printer Dryer and Platen

Because of the heat used to dry the ink after printing, a small amount of sheeting adhesive on the edge of the web may leave marks on and contaminate the Drying Table. This can create friction and prevent smooth movement of the sheeting over the Drying Table. In addition, ink Mist may also leave small deposits on the Platen.

Use a Lint Free Cloth and Flush or Adhesive Remover and clean the Drying Table and Platen.

3. Clean Push Rollers

Perform monthly or as often as needed. Dust and ink Mist will start to collect on the Push Rollers and will reduce grip and friction.

Use Lint Free Cloth and Mild Detergent to clean. Do not use Flush or Isopropyl Alcohol to prevent damage to the Push Rollers.

IMPORTANT: Damaged or cracked Push Rollers should immediately be replaced!

Contact your local Technical Services Representative for more information.

4. Clean and lubricate Bearing Races

This will allow the Carriage to run smoothly over the Bearing Races preventing vibration and noise.

IMPORTANT: Not lubricating these parts in time, may cause catastrophic failure to the printer!

Clean the Bearing Races at least once a month. First, wipe the Races with Lint Free Cloth only to clean of any dust and dirt. After cleaning, lubricate the Bearing Races with a light film of TrafficJet/Mutoh Grease.

Be Careful: Do not contaminate the plastic CR Encoder Strip with Grease as this will produce an error on the display.

5. Anti-Static Bar

Ionizing bars become contaminated with usage. Dirt buildup on the body of the ioniser, particularly on the Emitter pins, will cause a drop in performance.

IMPORTANT! Before cleaning, ensure that the equipment is switched OFF and be aware that the Emitter pins are extremely sharp.

Emitter pins can be cleaned very effectively with a soft plastic bristle brush. A dry toothbrush is ideal.

The bar itself will also need periodic wiping to clean gray/black deposits from the surface of the bar. A cloth moistened with a small amount of Isopropyl Alcohol is recommended. Do not spray the bar directly, spray the cloth first.

IMPORTANT: Make sure the bar is completely dry before turning back ON.

To get the best performance, clean at least once per month or more if buildup is visible. If buildup is severe, a Clean Pin Alert will be triggered, and the LED light will change from green to red.

*** As Needed**

1. Replace Spitting Pad Absorbent

Replace as often as needed. The Spitting Pad Absorbent is the area where the printer discharges/purges ink to ensure proper functioning of all Nozzles. As the ink starts to dry, over time it will clog this Filter/Felt. If the ink is not able to soak through the felt within a short time, replace the Spitting Pad Absorbent (consumable).

During Daily Maintenance we recommend using the Eye Dropper/Pipette to place Flush on the Spitting Pad Absorbent. Next to cleaning the Plastic Collector and Tubes underneath, this also prolongs the life of the Spitting Pad Absorbent.

Important information

1. Keep the Printer ON at all Times

As long as there is ink in the system, keep the printer ON at all times! If you plan not to use the printer for more than 7 days, perform a Longstore (flushing out all inks) and power off the machine or perform the Holiday Season Printing Procedure.

- For more information about the Longstore Process, please visit reflectives.averydennison.com and read the document TrafficJet - Longstore Process IB# 9.8
- For more information about the Holiday Season Printing Procedure, please visit reflectives.averydennison.com and read the document TrafficJet - Holiday Season Printing Procedure IB# 9.16

2. Keep Pressure Lever in Mid or Low Position

Make sure to keep the orange Media Pressure Lever in the Mid or Low position, or otherwise the printer can not start it's Auto Cleaning Cycle.

3. Make sure the Waste ink Container is empty if you do not print for a longer period of time

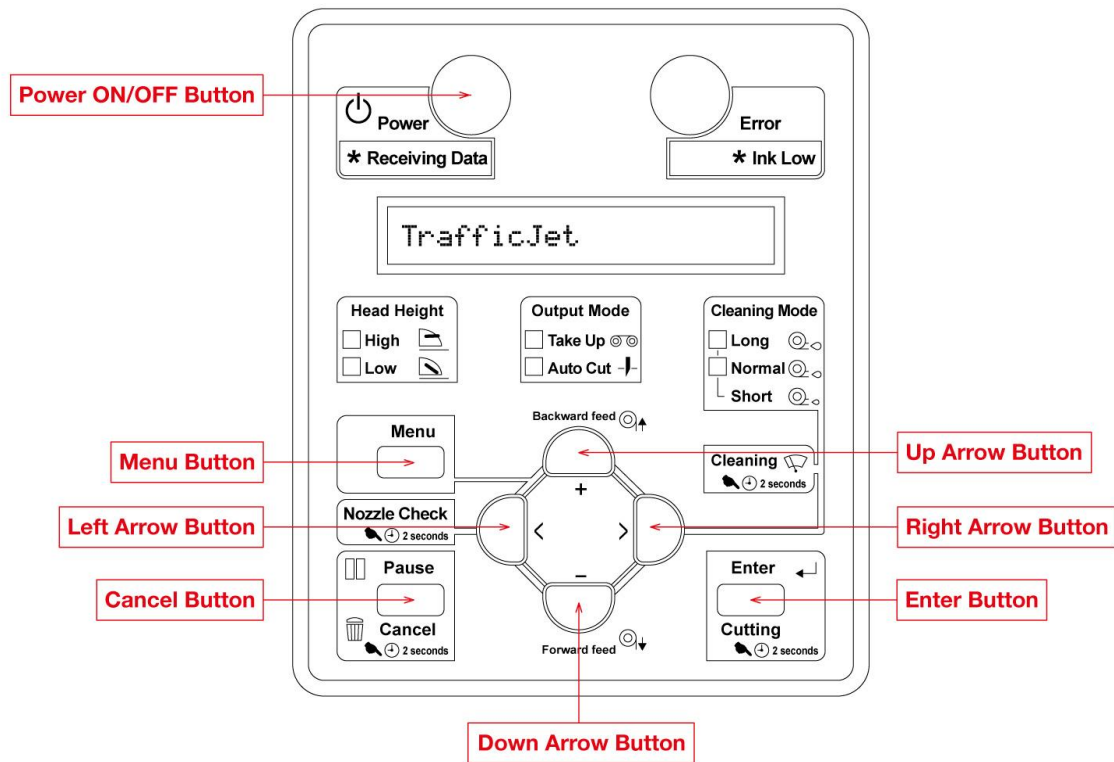
If you do not plan to print for a longer period of time, make sure to empty the Waste ink Container as the Auto Cleaning Cycle will stop working if the Waste ink Container is full.

4. Cleaning Frequency

Perform the maintenance AT LEAST with the frequency as mentioned (daily, weekly, monthly) or as often as needed. If you see issues, print high volumes, have sub-optimal environmental conditions etc., perform maintenance as often as needed and sometimes several times a day.

5. Dedicated Slots for ink Colors

Do not mix different colors in one slot position (even after a Longstore). This, because even after flushing out the lines, it is possible there are residual pigments in the system which may mix with the new color causing a possible contamination.



Avery Dennison®

TrafficJet™ Maintenance Schedule

Year :

Printer Serial :

Week Nr.	Monday	Tuesday	Wednesday	Thursday	Friday	Weekly	Monthly
Week 1							
Week 2							
Week 3							
Week 4							
Week 5							
Week 6							
Week 7							
Week 8							
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Week 25							
Week 26							
Week 27							

Week 28							
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Week Nr.	Monday	Tuesday	Wednesday	Thursday	Friday	Weekly	Monthly
Week 29							
Week 30							
Week 31							
Week 32							
Week 33							
Week 34							
Week 35							
Week 36							
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Week 50							
Week 51							
Week 52							

The above Avery Dennison literature provides information to the user for proper application, storage and other requirements. Please refer to Product Data Bulletins or your local Avery Dennison Representative for warranty information. Find the latest information on the Avery Dennison website, www.reflectives.averydennison.com. We encourage you to check our website periodically for updates.

All statements, technical information and recommendations about Avery Dennison products are based upon tests and information believed to be reliable, but do not constitute a guarantee or warranty of any kind. All Avery Dennison products are sold with the understanding that Purchaser has independently determined the suitability of such products for its intended and other purposes.

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