

DAILY OPERATIONS GUIDE

v 2.0



GTX

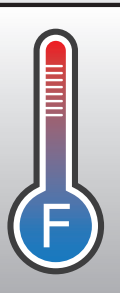
REFERENCE GUIDE FOR
ALL GTX SERIES USERS

BROTHERDTG.COM/SUPPORT

> Optimal Temperature & Humidity:


Help keep your printer in warranty while saving on ink, consumables, and time!

TEMPERATURE



MIN	62°
MAX	77°

HUMIDITY



MIN	35
MAX	85

The printer can operate outside of these ranges however it may use more ink or take longer to print.

If not enough, please install a humidifier!

Min Firmware v2.5 [Link to Recommended Humidifier](#)

Go to the menu: **Maintenance** > **Temperature/Humidity info** > 

> If temperature too cold, printer will switch automatically to Low-Temp Mode and reduce the speed!

> Damages resulting from being too far outside of environmental requirements may not be covered by warranty.

PRE-TREATMENT RATIO

[Watch the Video: Learning to Profile a Garment for Pre-treating](#)

You can use an empty distilled water jug and marker to measure out the amount of PT and draw a line on the jug then fill to that line twice with water adding the contents into the Ready to Use container.

By Volume:	1 Gallon	2 Gallons	3 Gallons
	Concentrated PreTreatment	+	Distilled Water
		=	Ready to Use Solution
By Weight:	4 lbs.	8 lbs.	12 lbs.

PRE-TREATMENT QUANTITY on T-SHIRTS

[Watch the Video for Understanding the Highlight-Mask Check Pattern](#)

PreTreatment Ready to use Quantity	High Absorbency <small>Thick materials or open weaves like hoodies</small>	=	40-50 Grams
	Med. Absorbency <small>Regular Cotton Tees 4.0 to 6.0 oz</small>	=	30-39 Grams
	Low Absorbency <small>Thin Material + Blend or Specialty Items</small>	=	15-29 Grams

Proper Pretreat volume for a garment should be determined by a **garment's absorbency rate** and in conjunction with using the **highlight check pattern** to help determine **driver ink settings**.

Don't forget that you have to define a surface of **14 X 16 inches** (35 X 40 cm) with your Pre-Treatment machine **to weight** with a **scale** after applying the PT liquid on a T-shirt!

> For example, on a Schulze PTM, you should enter a Length of 13 in and Begin of 1 in the full width with 4 nozzles will be 16 in!

HEAT PRESS SETTINGS for Pre-Treatment DRYING



Pre Treatment
1/2 distilled water

35
Seconds

180°C
360°F

5 - 5,5
Bars
75 - 80
PSI

✂ Use **Silicon sheet** on the heat press to cover the pre-treatment and **clean** the surface every 5 T-shirts!

You can also use Parchment paper when curing the Pre-treatment in order to minimize needing to clean off the covers and to minimize issues with fibers standing up on the garment

HEATPRESS & TUNNEL DRYER SETTINGS for INK CURING



HEATPRESS
Ink Curing

35
Seconds

180°C
360°F

0,7 - 1,4
Bars
10 - 20
PSI

TUNNEL DRYER
Ink Curing

3:30
Minutes

160°C
320°F

✂ Check the **Real Temperature** with a **Probe** or with **Strips** to be sure that you are safe for washability!

Watch the Video: Using and Storing the CR Holding Pin

VERY IMPORTANT



The Brother **GTX** should **ALWAYS** be left with Power **ON**

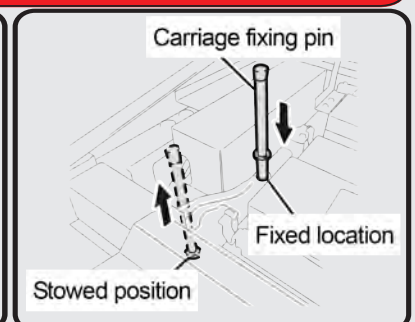
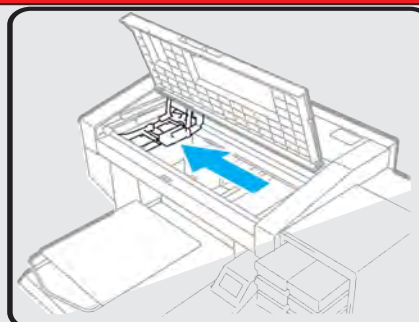


NEVER shut **OFF** the printer except if requested by the display informations!
Power is requested to perform the needed recirculation of the inks from time to time.



NEVER POWER OFF THE PRINTER!

In the event that power goes out or your printer has an error during printing. Push the **Carriage** back all the way to the left to dock it and use the **Fixing Pin** to lock it in place.

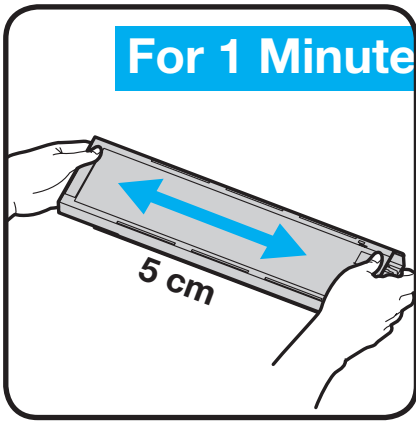




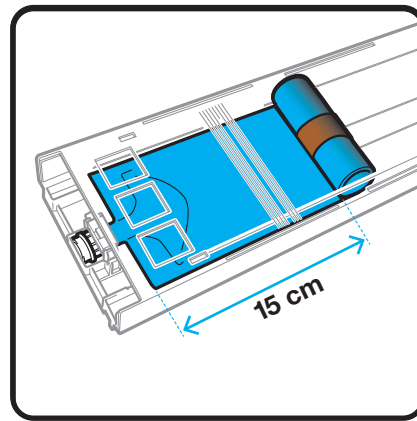
DAILY AGITATION OF WHITE INK

Watch the Video: Daily Process of GTX
White Ink Agitation

> Perform the procedure shown below if the message "Remove the white ink cartridge and shake it" is displayed before starting operation.



Take out the white ink cartridge from the printer. Shake the cartridge **horizontally 100 times** side by side to stir the white ink.






When the remaining ink level becomes approximately **15 cm**, shake the cartridge with its **cover open** and with the ink pouch slightly winded, to make the ink easier to stir. **Repeat the same process on the other white ink cartridge!**

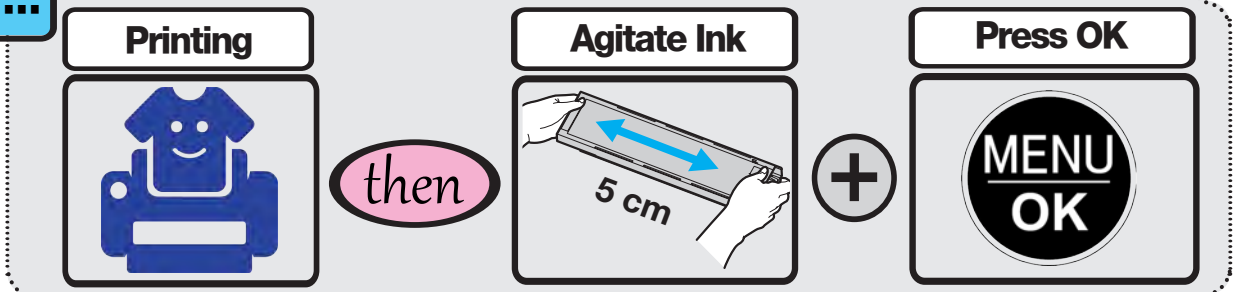


When to Agitate the White Ink and Press "OK"

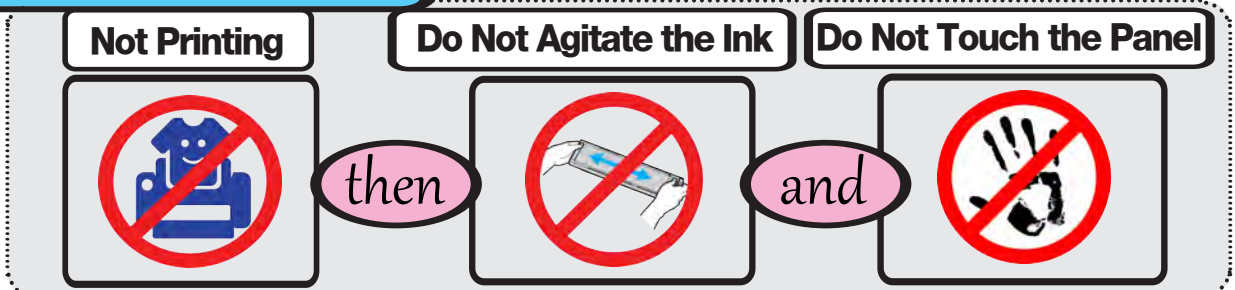


Just as important as understanding how to agitate the ink daily is when to perform both the agitation and press  on the panel after reinserting the ink. If you are not printing for a few days you should avoid doing this process. There are some rules to know about when you should agitate the ink and press . The printer will automatically perform a White Ink Refilling to refresh the ink in the lines and head after you press insert the ink and press .

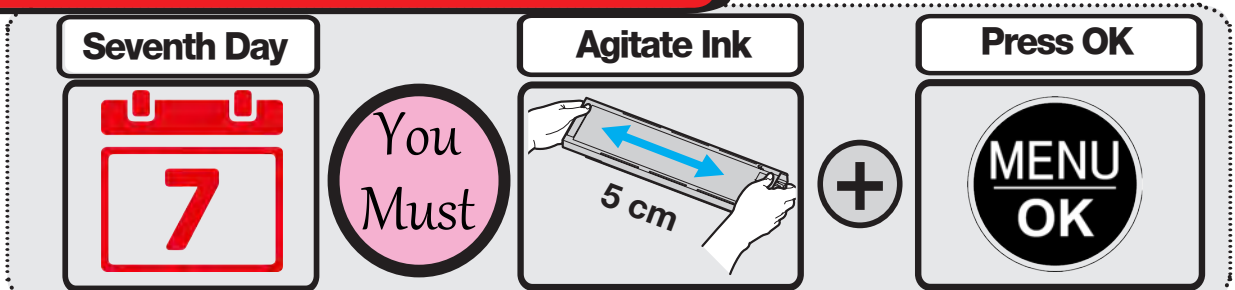
Each day, If...



If Between 1-6 Days, You Are...



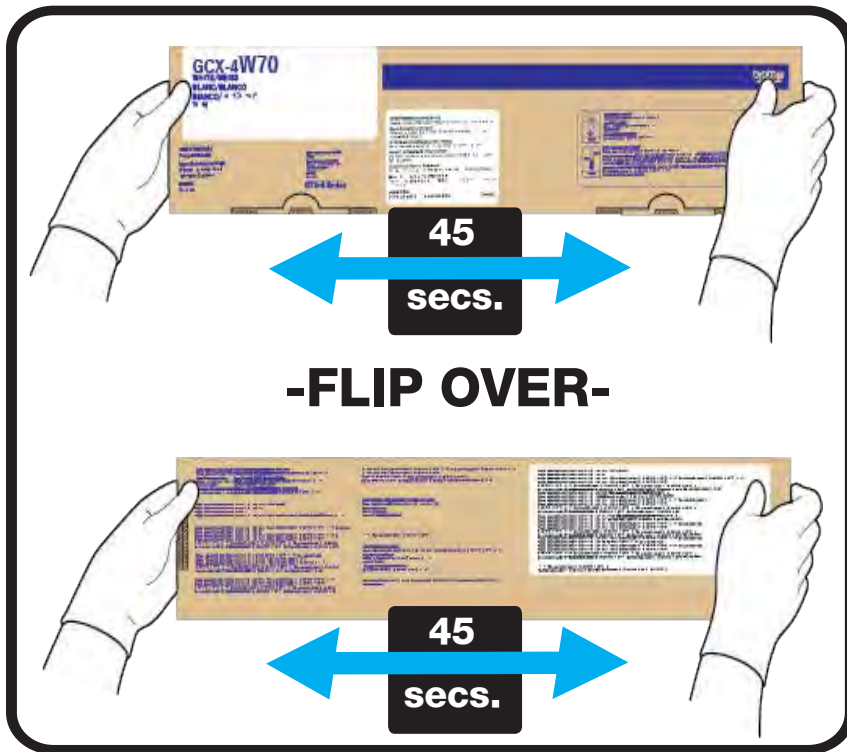
Whether You Print or Not Each Day, On the...





POUCH REPLACEMENT - VERY IMPORTANT !

If you know your going to print a large order or are low on ink, ensure you have spare ink on hand. Attempting to run the printer dry can damage the unit and keep you from finishing a job as well it can lead to costly repairs!



You can agitate New White Ink still in the box before putting it into the pouches in the same back and forth manner as the cartridges. New ink should be agitated longer 45 secs. each side; doing this while still in the box saves time as both pouches are in the box.





POUCH REPLACEMENT - VERY IMPORTANT !

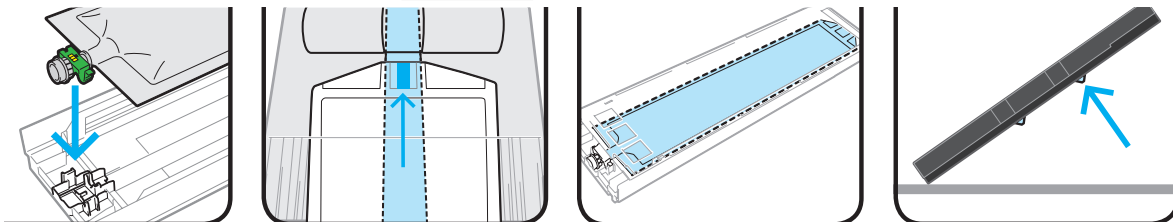
Open the cartridge's lid on a **flat surface** and remove the empty pouch.
Unpack a new ink pouch from its shipping carton. **Avoid wrinkling the pouch.**

Push the **green tip end** of the ink pouch into the cartridge until it **clicks** into place. Straighten the ink pouch to align it straight inside of the cartridge, and mount in position inside the metal spring by pulling it with your hand.

If the edge of the ink pouch is bent or undulating significantly, make it **flat and straight** with your hand **to avoid wrinkling the pouch.**

Place the pouch in a straight alignment with the cartridge. Align lines with each other!
Close the lid, verify if the spring is rolling to the front.

 Attach a shelf life **sticker**  included with ink pouch onto the front of the cartridge.



> STORED INK

If storing ink for more than one week without use then you should flip the boxes weekly in order to keep ink pigments from settling in the pouch.



GOOD

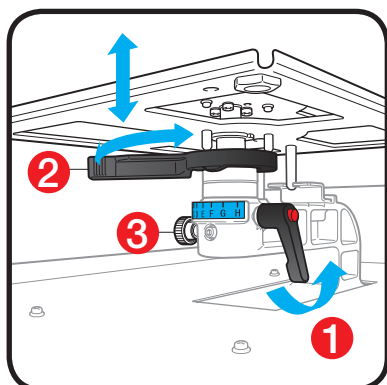
BAD

> ALWAYS KEEP THE **CLOSEST DISTANCE** BETWEEN THE PRINTHEADS AND THE SURFACE OF THE GARMENT! IT IS VERY IMPORTANT FOR THE LONG LIFE OF YOUR PRINTER!

[Link to the Document: Use of the Platen and Platen Mechanism](#)

ADJUSTING THE HEIGHT OF THE PLATEN

To provide an optimum printing image quality when a thicker textile is used, you need to **adjust** the platen's height related to the **thickness of the garment**.



To adjust the platen height, loosen the **Platen Fixing Lever ①** and move the **Platen Height Adjustment Lever ②** to a lower position. Then re-tighten the Platen Fixing Lever. To check if the new garment is not detected by the **sensor**, push the button and **repeat** the process **if needed!**

If you need to go down further, remove 1 or 2 collars, loosen the knob **③** and push down the platen bearing by 1 or 2 steps.

Re-attach everything and tighten again the **Platen Fixing Lever**

> Don't forget to **bring back** the platen to the **A position** printing on thicker material! > Always leave the knob **③** tighten after changing position!

> if you have to print above hem and seams, go for **UNI-directional** printing to keep quality!

GTX MAINTENANCE OVERVIEW

There are several maintenance procedures that **must be performed** on a daily, weekly, or prompted basis in order to keep your printer performing **properly**.

This short guide describes the maintenance procedures that must be performed.

> Please see the **Instruction Manual** for each specific maintenance procedure for step by step instructions.

vimeo

Please also check useful videos at <https://vimeo.com/showcase/5386998>



> NOZZLE TEST

! TO BE DONE EVERY WORKING DAY

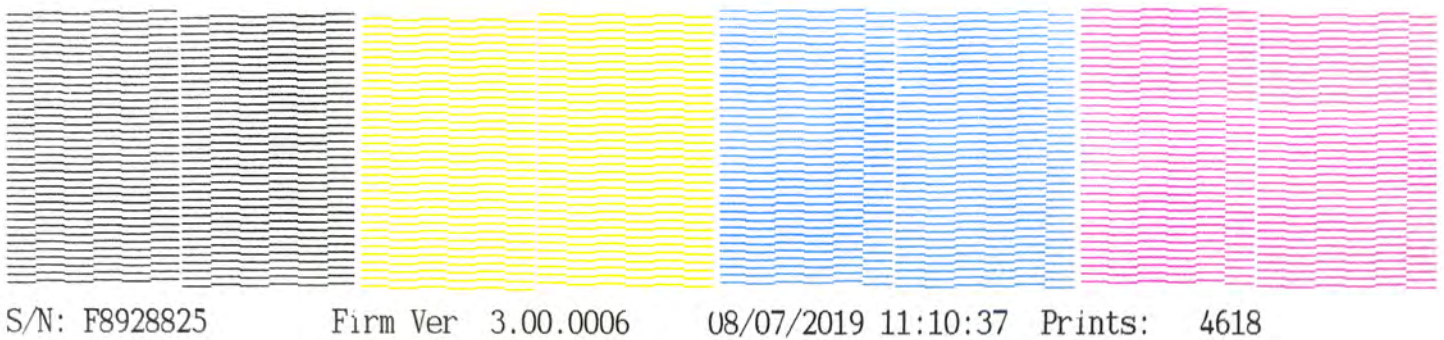
You have to print a nozzle test for White & CMYK **every morning** before using the printer. It is the only way to know the status of the nozzles in the machine before printing!

> HOW TO DO A NOZZLE TEST ?

NZC

Always place the **Platen** at level **A**

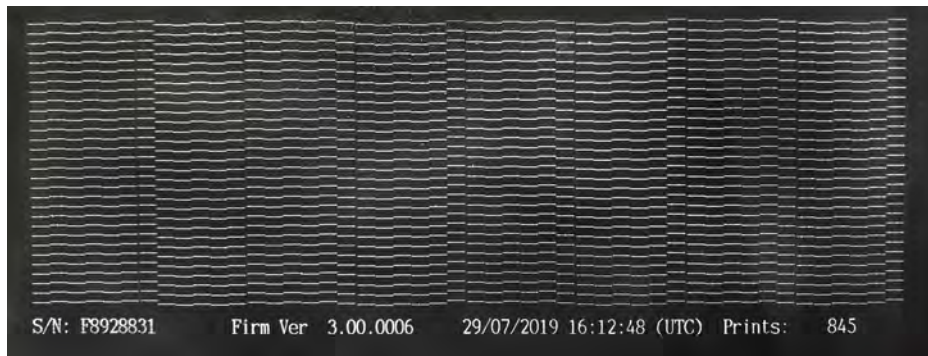
Menu > **Test Print** > **Nozzle Check CMYK** >  *to check colors on a white paper sheet*



NZC

Repeat the same procedure to perform a nozzle test for the **White** print head

Menu > **Test Print** > **Nozzle Check White** >  *to check White on a black paper sheet or inkjet plastic sheet*



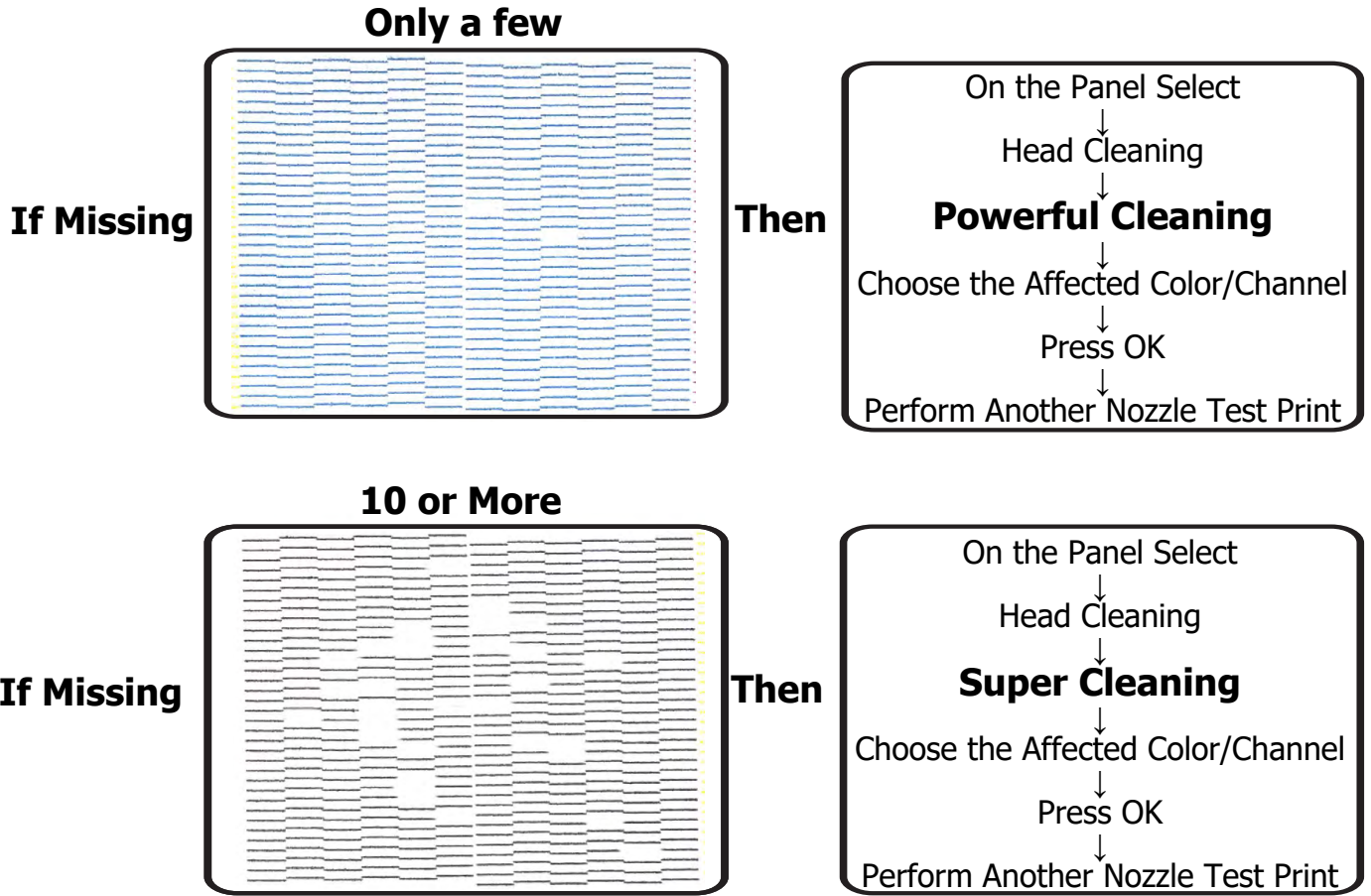
> *If not all nozzles are firing, start a **Head Cleaning** to open the closed nozzles!*

See Below Section For Head Cleaning Information

Missing Nozzles & Deflection Cleanings & Flash Firing

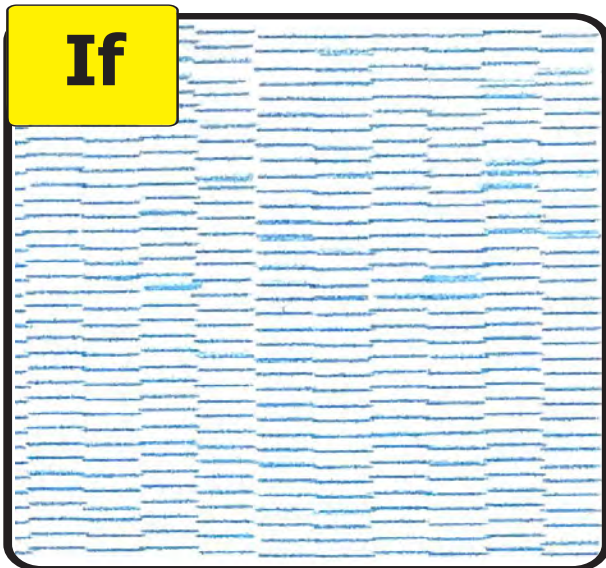
Missing Nozzles are defined by a test print pattern missing horizontal pins (that represent each of the nozzles of the print head) being closed up with debris and therefore not showing up. When nozzles/pins are missing you will want to perform one of the below indicated cleanings.

NOTE: This process can be used for CMYK or White



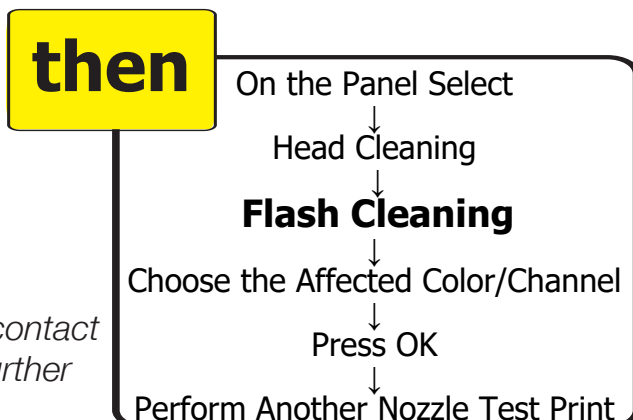
> Repeat the same process as needed up to 3 times and ensure all maintenance has been performed such as cleaning the cap and wiper blade and the wiper cassette is fresh and still has moisture. If there is no improvement by the 4th time; please contact support.

Deflection & Flash Firing



Deflection appears as odd bunched up or gapped lines sometimes the horizontal bars will appear blurred and staggered.


When this is present you will want to perform a **Flash Fire Cleaning**.




If this does not resolve the matter please contact your dealer or brother representative for further troubleshooting.



> WEEKLY MAINTENANCE PROCEDURES

 To maintain the machine weekly you will have to do the following actions:

 **WEEKLY MAINTENANCE**

+ Suction Cap Cleaning	+ Exhaust Cap Cleaning
+ Wiper Blade Cleaning	+ Nozzle Guards Cleaning

> Always use this menu to perform cleanings or replace parts : 

Menu > **Maintenance** > **Maintenance Part Clean/Replace** >  and follow instructions on the display

> Suction Cap & Exhaust Cleaning

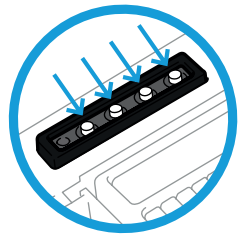
 **TO BE DONE EVERY WEEK**

The black silicon lips of **both caps** should be cleaned with the **Cleaning Stick T** dipped in **Cleaning Solution**.

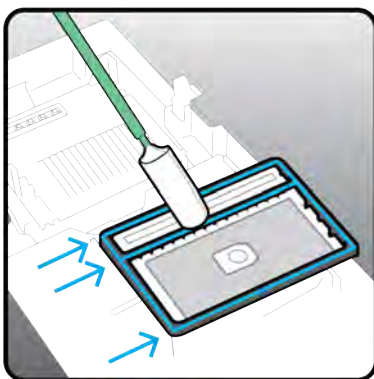
It is necessary to remove the built-up ink remaining/stuck on the edges of the caps. Completely clean caps prevent air leakage and keep good suction of the pumps which translates to better print head health and life!

Be careful not to touch the foam! Keep it flat!

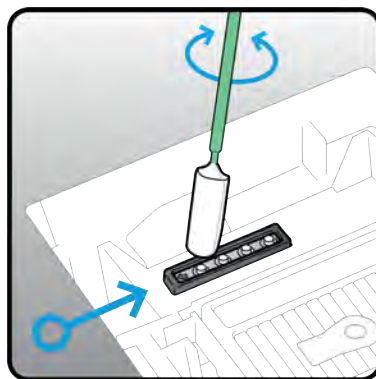
The **four extrusion lances** (see in the blue circle...) and the **hole** sitting on the side of the capping at the **Exhaust** position need also to be cleaned and free of dried ink.



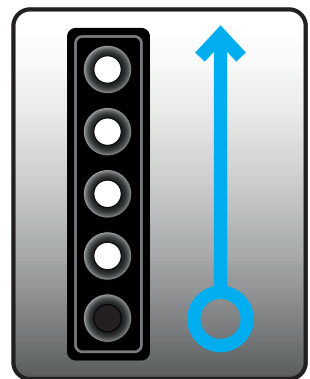
Always clean from the hole at the front and go backward while cleaning the **lances**!



Suction Cap Cleaning



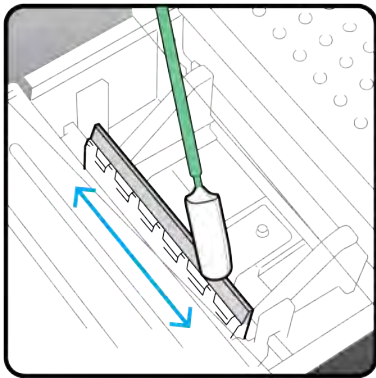
Exhaust Cleaning



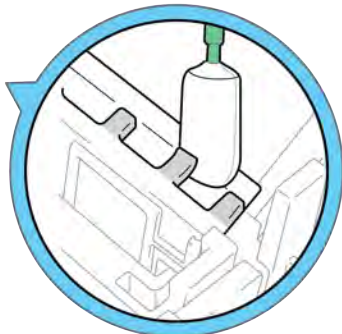
Direction to clean

> Wiper Blade Cleaning

! TO BE DONE **EVERY** WEEK



Both white plastic wipers [White & CMYK] should be cleaned on **both sides** and **top** with the **Cleaning Stick T** dipped in **Cleaning Solution**.



Use the tip of the **Cleaning Stick T** to clean under the teeth of the wiper holder and remove the dried ink.

Be sure to use the Cleaning stick **T** separately for **white** ink and **color** ink!

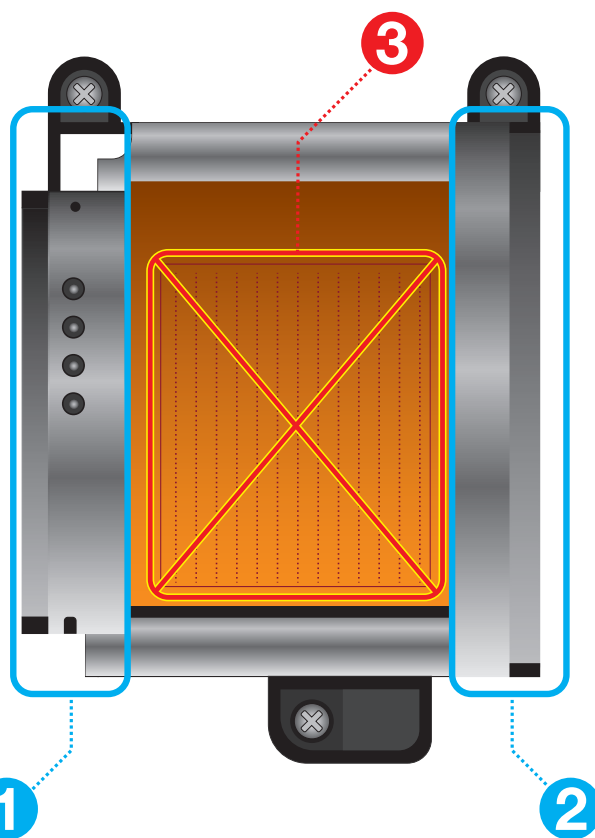
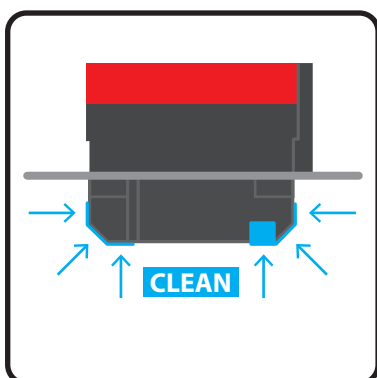
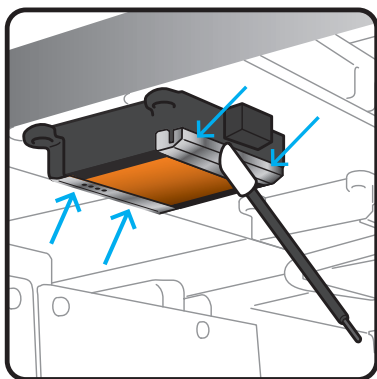
> Nozzle Guards Cleaning

! TO BE DONE **EVERY** WEEK

Wipe the 2 nozzle guards clean **1** & **2** with the **Clean Stick R** dipped in **Cleaning Solution**.

Be sure **not** to touch the **nozzle surface 3** at all!

Manually move the carriage **by hand with the power off**; to a position that you can perform the cleaning with ease.



 > The remaining Cleaning Solution from the Cleaning Cup should be emptied into the **Waste Tank** below the printer!

> MAINTENANCE PARTS CLEANING & REPLACING PROCEDURES

WARNING   **ERROR**

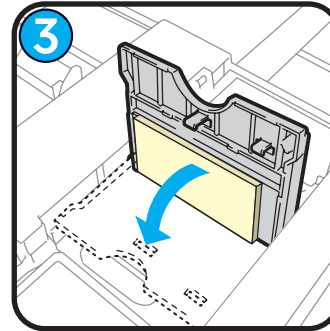
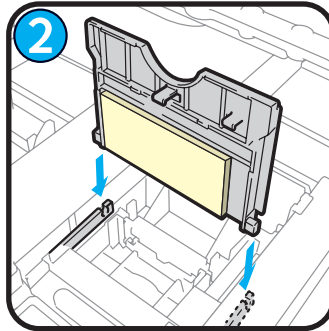
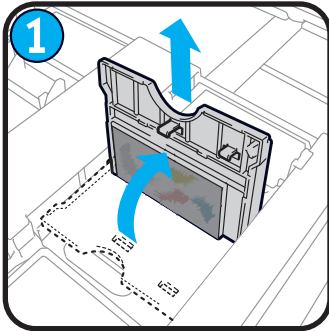
In case of Warning/Error messages please follow the following procedures:

> Always use this menu to perform m cleanings or r eplace parts :

Menu > Maintenance > Maintenance Part Clean/Replace >  and follow instructions on the display

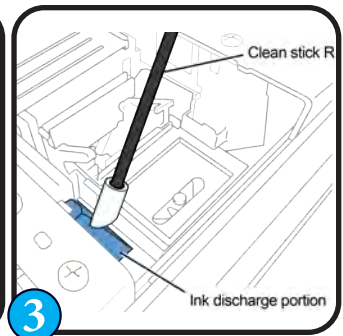
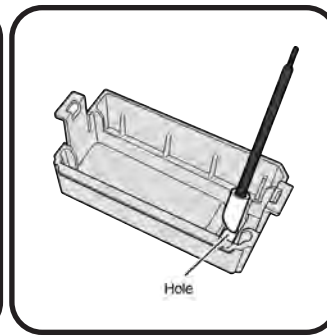
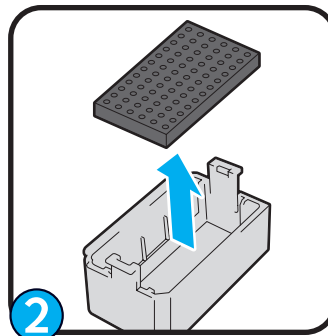
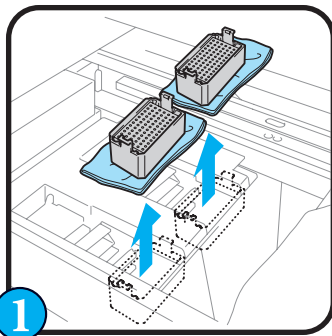


> WIPER CLEANER REPLACEMENT Watch the Video: Replace the GTX Wiper Cleaner



Simply remove the old **Wiper Cleaner** by lifting it up. Replace it with a new one.

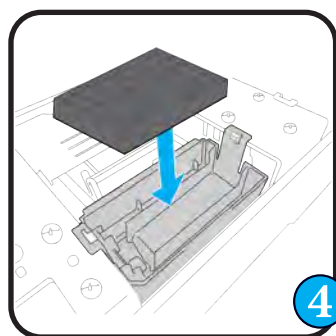
> FLUSHING FOAM REPLACEMENT Watch the Video: Flushing Foams Replacement



Lift up the **flushing receivers** and place them on a waste cloth to avoid dripping ink.

Remove **Flushing Foams** and clean the holes of the 2 receivers.

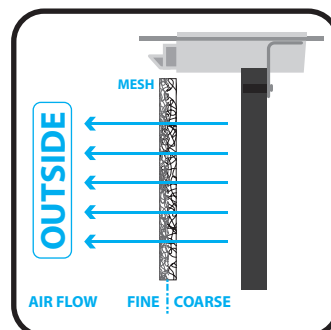
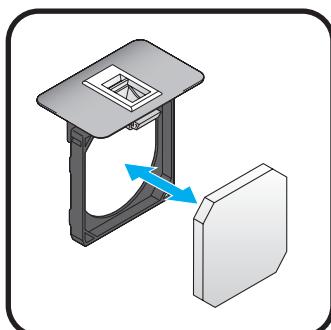
Clean also under where the receivers sit on the maintenance unit if ink is blocking drainage!



Install new Foams and put reinstall everything back into the printer.

> FAN FILTER REPLACEMENT

Watch a Video: Fan Filter Replacement



Remove the 2 filter holders from the back of the machine.
Mount a **new Fan Filter** in each of the black frames.
The coarse mesh surface should face the direction of the inside of the printer and fine mesh surface in the direction of the outside of the printer.




ADDITIONAL WEEKLY MAINTENANCE



Visual inspection is important to keep your printer up and running. Verify all the moving parts of the machine and also check for any leaking or dripping ink.



Please also follow all the instructions that appear on the **display** of the printer!

When you see a yellow number push the  **key** to see what you have to perform to erase the **Error/Warning** message.



INTERNAL CLEANING OF PRINTER

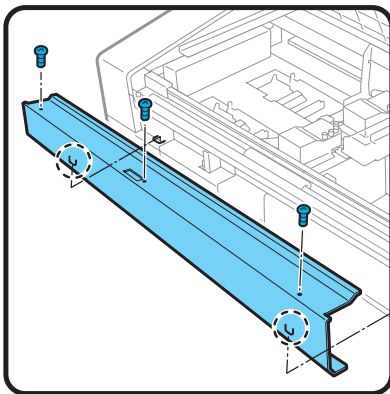
Watch the Video: [Cleaning Internal Areas of GTX Printer](#)

> If the inside of your printer is covered with **ink mist**, perform a **cleaning!**



> Always use this menu to perform cleanings or replace parts :

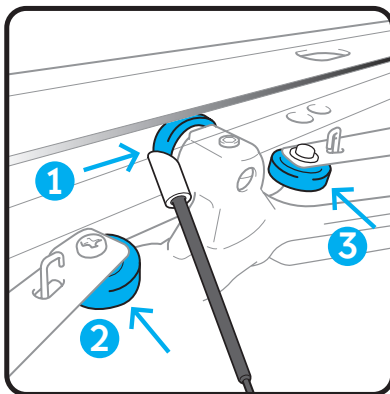
Menu > **Maintenance** > **Maintenance Part Clean/Replace** >  and follow the instructions on the display



Remove 3 **Screws** to remove the **Encoder Cover**.

Dip the **Clean Stick R** in **Cleaning Solution**, then use it to wipe away the mist build-up on the **3 Carriage Rollers**. Move the carriage from side to side to wipe all around the 3 rollers completely.

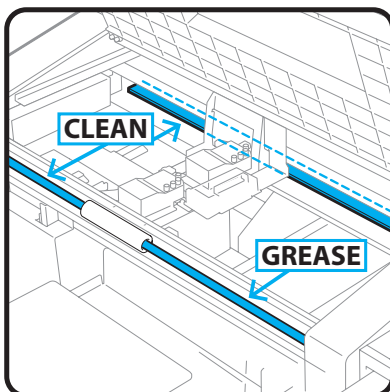
Clean the **Carriage Guide Shaft** and the **3 sides** [upper, front, and lower] of the **Roller Guide** with a lint free cloth; moisten the cloth with a small amount of isopropyl **alcohol** [if using rubbing alcohol it should be above 90%]



Do not use alcohol on parts other than the carriage guide shaft and the roller guide!

Apply a proper amount of **Molykote 30 Grease** onto the **Carriage Guide Shaft** only [never on the Roller Guide!]

Remove 3 screws to take out the encoder metal cover. Take a lint free cloth; moisten with **alcohol**, clean carefully both sides of the **Encoder Strip**




Perform a **CR Speed Adjustment**.

Menu > Printer Setting > CR Speed Adjustment > OK

Print out a **Nozzle Check** pattern.

WHEN NOT USING PRINTER FOR LONG PERIOD OF TIME



 When the printer will not be used for a prolonged period of time, take appropriate steps before storing the printer depending on storage period or condition.

> **DO NOT** turn the printer **OFF**, otherwise, the printer may be damaged.

> WITHIN 2 WEEKS

The printer can be used through normal procedure after the storage period, by performing the following maintenance tasks:

- Please empty **any waste ink** in the **waste ink tank**.
- Check the amount of **Cleaning Solution** in the cleaning liquid **tank**, and refill the tank when its is below the proper level.
- Agitate the white ink if a white ink agitation message is displayed on the operation panel screen.
- Print out a **Nozzle Check** pattern.

> FOR MORE THAN 2 WEEKS

When storing the printer for **more** than two weeks, cleaning the **Nozzle Guard**, **Wiper** and **Exhaust Cap** should be performed.

Same procedure as above **plus**:

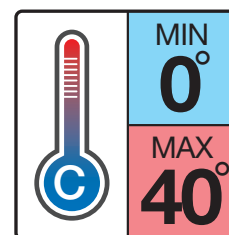
- If a non-firing nozzle is found, perform **Head Cleaning** and run the **Nozzle Check** pattern print, and verify the result again.

INK & SOLUTIONS STORAGE



CMYK & White inks, Cleaning Solution, Maintenance Solution & Pretreatment Solution should be stored at a temperature range between 0° and 40°

> *Be careful **NOT** to go below **Zero** degrees !*



HOW TO EXTRACT A LOG FILE FROM THE PRINTER?



Switch on the printer and insert a **USB stick**

Go to the menu: **Maintenance** > **Log copy to USB** > 

Watch the Video: Retrieving the GTX Log Data

GT INK & CONSUMABLES

	Description of product	Product Code	Price/Unit*
INK POUCHES	C Cyan Ink Pouch 500cc [GCX-4C50]	BGCX40C05000112	
	M Magenta Ink Pouch 500cc [GCX-4M50]	BGCX40M05000112	
	Y Yellow Ink Pouch 500cc [GCX-4Y50]	BGCX40Y05000112	
	K Black Ink Pouch 500cc [GCX-4K50]	BGCX40K05000112	
	W White Ink Pouch 2 x 500cc [GCX-4W50]	BGCX40W05000022	
	C Cyan Ink Pouch 700cc [GCX-4C70]	BGCX40C05000112	
	M Magenta Ink Pouch 700cc [GCX-4M70]	BGCX40M07000112	
	Y Yellow Ink Pouch 700cc [GCX-4Y70]	BGCX40Y07000112	
	K Black Ink Pouch 700cc [GCX-4K70]	BGCX40K07000112	
	W White Ink Pouch 2 x 700cc [GCX-4W70]	BGCX40W07000022	
LIQUIDS	CS Cleaning Solution 1,9Kg [GCX-4E02]	BGCX40E002K0052	
	MS Maintenance Solution Pouch 700cc [GCX-4S70]	BGCX40S07000012	
	PT PreTreatment Liquid 5Kg-4L [GCX-4P05]	BGCX40P005K0042	
PARTS	W Capping Pouch <i>pieces in the</i>	SB5696001	
	Wiper Cassettes <i>[2 pieces in the box]</i>	SB6673001	
	Flushing Foam <i>[2 pieces in the bag]</i>	SB7006001	
	Fan Filter <i>[2 pieces in the bag]</i>	SB7007001	
	Cleaning Sticks R <i>[50 pieces]</i>	4Y1-9096	
	Cleaning Sticks Type T <i>[50 pieces]</i>	SC0032001	
	Wiper Blade <i>[1 piece; machine requires 2]</i>	SB7870001	
	Print Head <i>[1 piece]</i>	SB9173001	
	Color Cap Rubber Assy. <i>[1 piece]</i>	SB9630001	
	White Cap Rubber Assy. <i>[1 piece]</i>	SB9650001	
	Acro37 Large W-Side Filter <i>[4 pieces]</i>	GTXLCF231	
	LC Filter 10um <i>[4 pieces; machine requires 2]</i>	GT3LCF124	
	GREASE EM-30L <i>[1 piece]</i>	SB3229101	
	Platen Sheet Adult <i>[1 piece]</i>	SB6667101	
	Maintenance Unit <i>[1 piece]</i>	SB7869701	
	Encoder Strip <i>[1 piece]</i>	SB2665001	
	Maintenance Pulse Motor <i>[1 piece]</i>	SB5346001	
	Black Chip Cartridge Sensor <i>[1 piece]</i>	A60014001	
	Main PCB Assy <i>[1 piece]</i>	SB7016101	
	Encoder Resin Rivet <i>[1 piece]</i>	SB5161001	
Encoder Cleaner Tool <i>[1 piece]</i>	SB3143101		



NOTES



CONTACT DETAILS OF YOUR BROTHER DEALER

Company Name:

Representative:

Email address:

Phone number: