

GTXpro Bulk

COOK BOOK



Dealer v02



brother
at your side

> A reference guide for all GTX pro BULK users

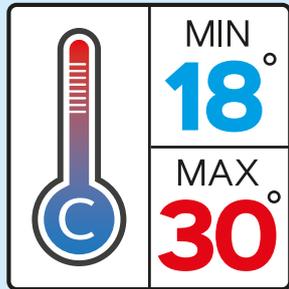


ENVIRONMENTAL CONDITIONS

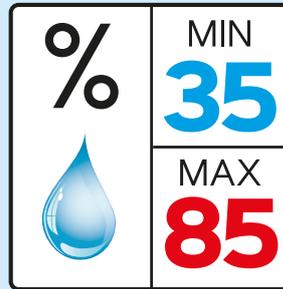
Mandatory Temperature & Humidity Requirements

Required to keep your warranty! Temperature & Humidity are recorded in the Log file!

TEMPERATURE



HUMIDITY



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

- > If temperature is too cold, printer will switch automatically to Low-Temp Mode and reduce the SPEED!
- > If humidity too low, please install a HUMIDIFIER!



PRE-TREATMENT RATIO & QUANTITY



- > This mixing ratio might vary due to the type of garment which is used. Use your experience!



- > 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 the amount of spray, with a scale, after applying the Pre-Treatment liquid on a T-shirt!

> For example, on a Schulze PTM, you should enter a length of 36 cm and the full width of 4 nozzles will be 40 cm! And then, calibrate the PT machine to spray 30 g on the garment!

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 min.!

HEAT PRESS & TUNNEL DRYER SETTINGS FOR INK CURING



HEAT PRESS

**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 the washability!

VERY IMPORTANT RULE



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



NEVER shut **OFF** the printer except if requested by the display message only!
Power is requested to perform the **recirculation** of the inks every day. Also needed for the **rotation** of the propeller inside the white ink tank to **prevent sedimentation**.



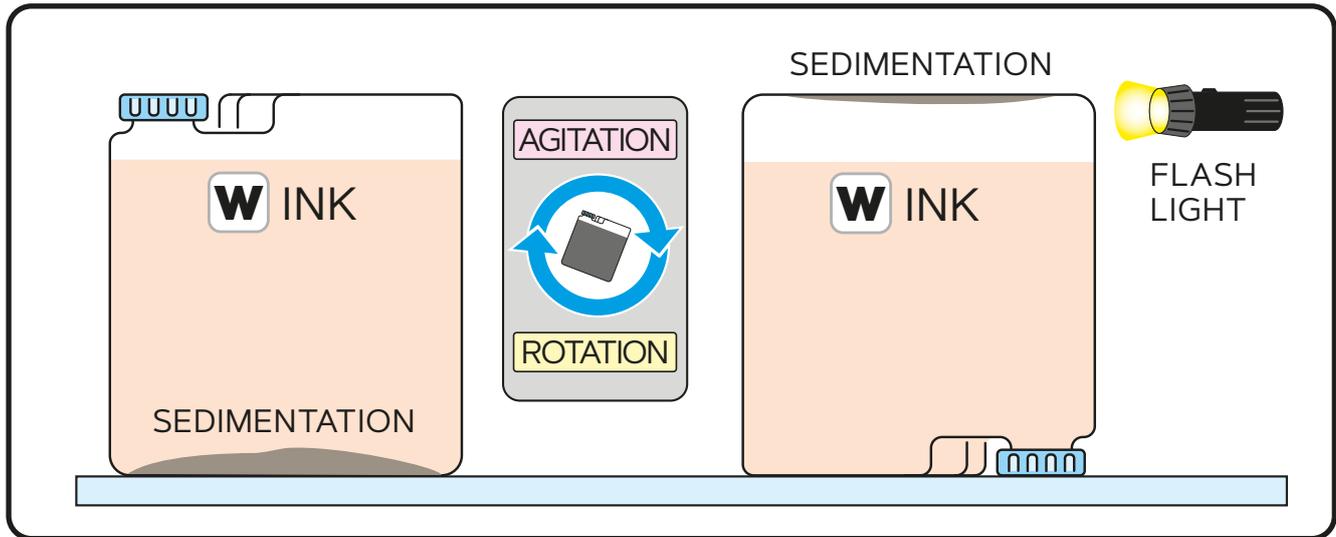
NEVER POWER OFF THE PRINTER!



WHITE INK SHAKING & SEDIMENTATION

BEFORE REFILLING BULK INK TANK, YOU HAVE TO **SHAKE** THE WHITE INK

TO BE DONE EVERY REFILLING



After having completed the white ink shaking, **check the amount of sediments** in the white ink tank before refilling. Use a **flash light**! It is the only way to **control if it is well done**! If only foam and **no more** sediments, you can refill the bulk ink tank safely!



INK SEDIMENTATION RESULTS



Still some sedimentation remaining: **NOT OK**



No sedimentation remaining, only ink foam: **OK**

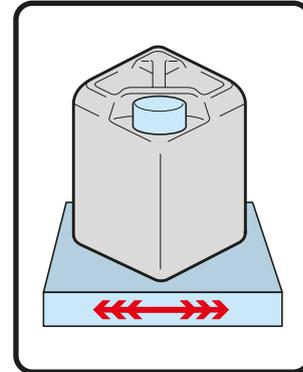


With the new arrival of the big **bulk tanks** for the inks you will need some tools to help you in your daily work. It is not so easy **to lift and shake** bulk ink tank of around **20 Kg** [18 liters of ink]. Those curated tools will ease to professionally move and mix the inks **before** filling the tanks.

HYDRAULIC SCISSOR LIFT



SHACKING MACHINE



ADJUSTABLE HYDRAULIC SCISSOR LIFT WITH CASTORS



This tool will help you to **move the bulk ink tanks** from the boxes to the printer and **to fill-in** the tanks clean and easy.

It will guide you to position the ink tank **on top** of the opening to open the faucet and **let the liquid flow** inside the reservoir **without spilling the floor!**

SHAKING MACHINES FOR WHITE INK TANKS



White ink needs agitation **EVERY TIME** before refilling the tank!

White ink tanks **MUST BE ROTATED** in your stock room once a week!

We can suggest **different types of machine** with different budget to shake the white ink tank before fill-in the tank of the printer.

Those tools will help you to mix the ink **homogeneously**. Remember that a tank of 18 liters weights around 20 Kg!

If the non-mixed ink is going **inside the tubes** of the printer it is **not possible** to remove it and shake it again. It will be **totally lost!**

If white ink is **not** agitated well, white prints will look **faded** and **gray!**



DIFFERENT PROPOSITIONS FOR SHAKING MACHINES

THOSE MACHINES ARE NOT BROTHER OFFICIAL PRODUCTS, YOU WILL HAVE TO PURCHASE THEM **LOCALLY!**

VIBRATING PLATE

€ > LOW PRICE SEGMENT

There is a lot of brands on the market.

Mainly used for fitness at home.

Vibrating Top to Bottom, Left to Right and both combined

Just drop the white ink tank on top of it and let the vibrating plate run for **2 hours...**

Price tag between 100 and 200 €

Example: **Merax...**



** You will also need some tie down straps to hold securely the tank on the vibrating plate*

VIBRATIONAL SHAKER

€ > MIDDLE PRICE SEGMENT

Few brands on the market.

Only used by professional.

Vibrating with HIGH frequency.

Insert the white ink tank inside the two doors and let the shaker run for around **20 minutes...**

Price tag around 4000 €

Example: **Skandex SK550 1.1**



GYROSCOPIC MIXER

€ > HIGH PRICE SEGMENT

Few brands on the market.

Only used by professional.

Vibrating with HIGH frequency AND **rotating** the tank inside during the spin!

Insert the white ink tank inside the two doors and let the mixer spin for **5 minutes...**

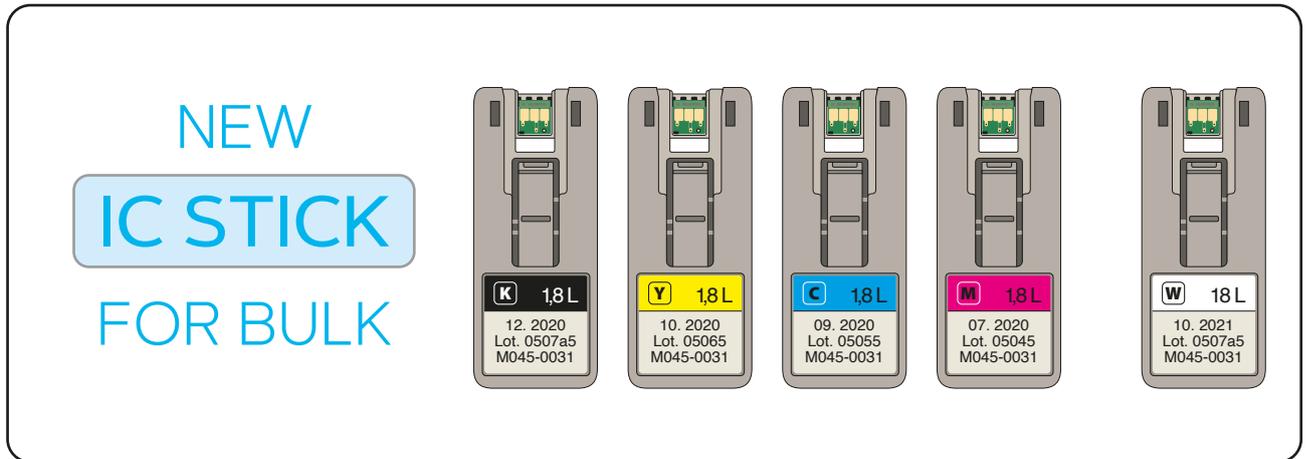
Price tag around 8500 €

Example: **Merris Spinmix 550**





Because ink is delivered in **bulk** you will have to follow the procedure step-by-step to activate the new refilling with the **IC Stick**.



The printer will **detect** when the ink is **filled in** any of the tanks

If IC Stick is NOT in place,
it will ask for it

If WRONG COLOUR,
printer will detect and report

Even when printer is OFF,
refill will be detected by GTX

CALIBRATION of tanks is necessary
once a month

Whole process is controlled
by the display MENU

In case of operator's error, printer
will show message to protect the
GTX pro Bulk

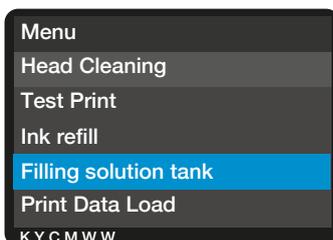
If the IC Stick is broken or lost
call directly your Dealer for a new
one. Be aware of delay!

A Spare set of ink will solve the
problem of being stopped during
your production.

REFILLING CLEANING SOLUTION

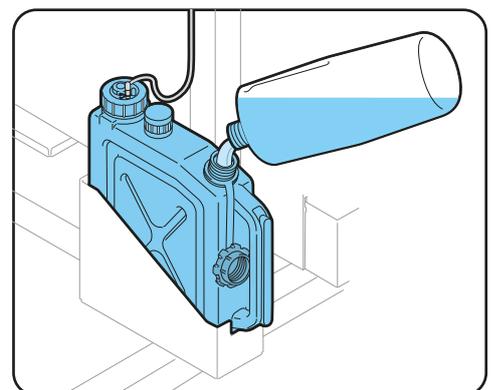


Refilling of the **Cleaning Solution** circuit is done from the **bottom tank**.
The **upper tank** is refilled by a **pump** activated by a sensor!



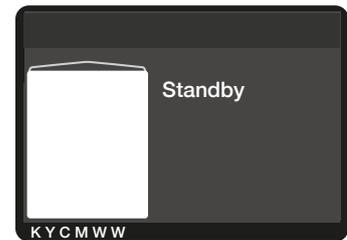
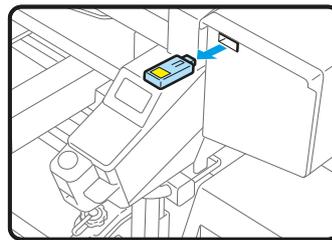
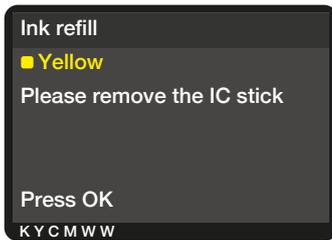
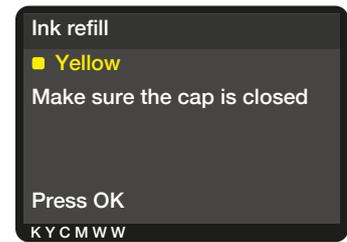
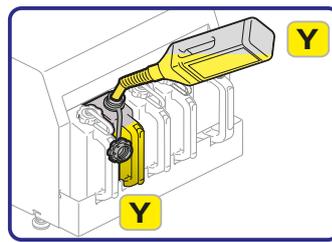
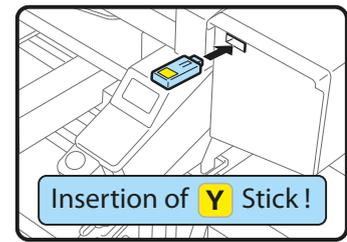
When "**C.S. Empty**" error
shows up on the display,
fill in the tank.

Then select "**Filling solu-
tion tank**" in the Menu.

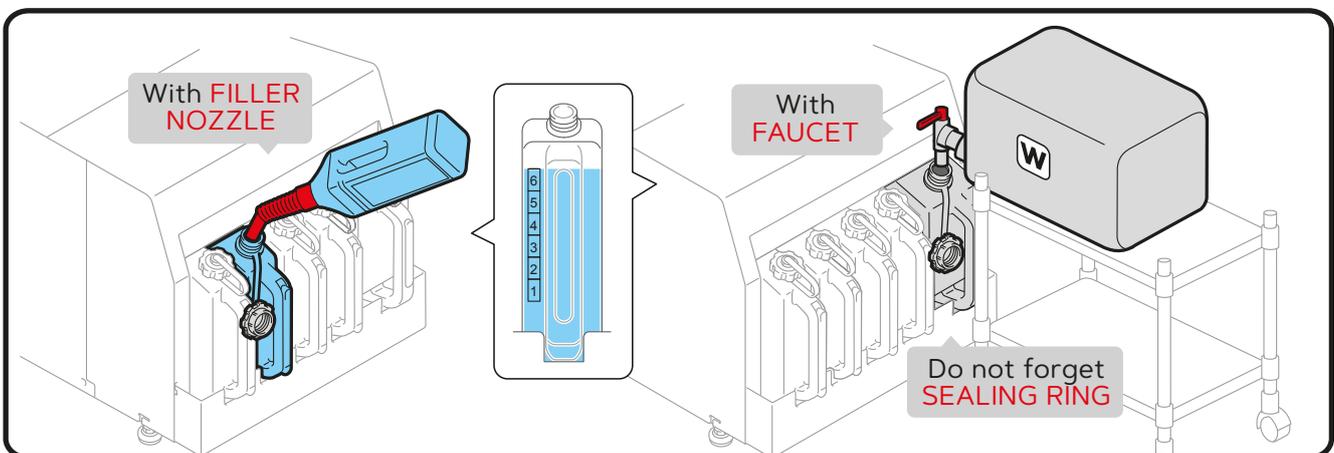


[REFILLING INK FLOW] USING INK REFILL MENU

> Here is an example to show the whole procedure to refill Yellow ink:



REFILLING BULK INK TANKS



CALIBRATION of tank sensor is necessary ONCE A MONTH



⚠ TO BE DONE **EVERY MONTH**

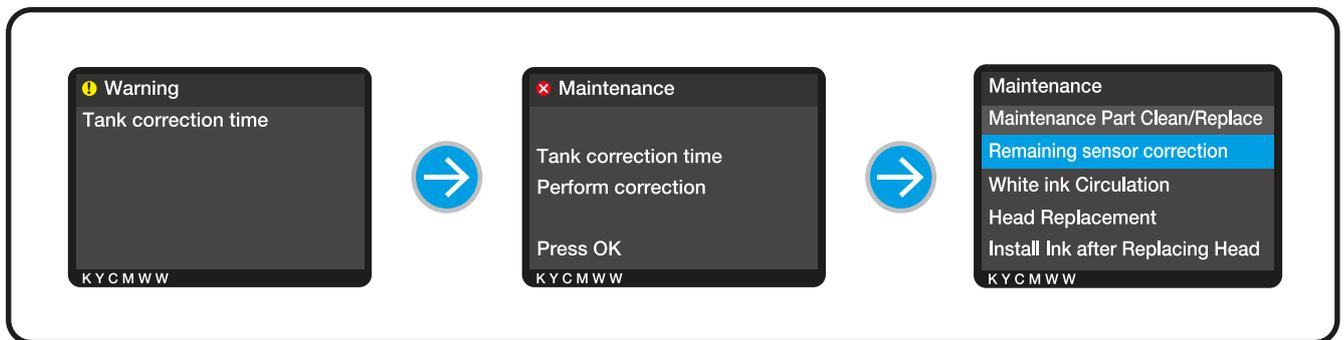
⚠ CALIBRATION is necessary to keep the **ACCURACY** of the pressure sensor

By performing the **calibration**, the actual remaining ink amount is **matched** with the remaining ink amount detected by the main body.

If calibration is not performed, **"Empty error"** may be displayed even though a large amount of ink remains in the tank!

Warning **"Tank correction time"** appears once every **30 days**

If you do not perform ink correction for **2 days**, an error will occur and you will **not** be able to print



⚠ To solve this error 1010 & 1011, you need to perform CALIBRATION

READING METHOD



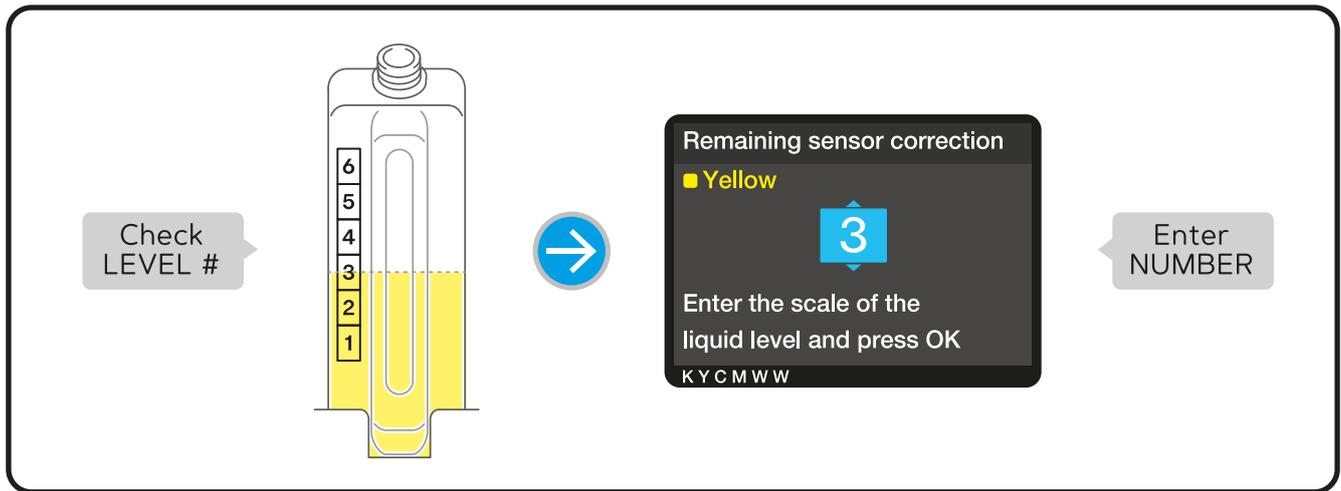
ORDER to follow for CALIBRATION:



Regarding **White ink**, the number is difficult to check. If you use a **flash light**, it will be easier!

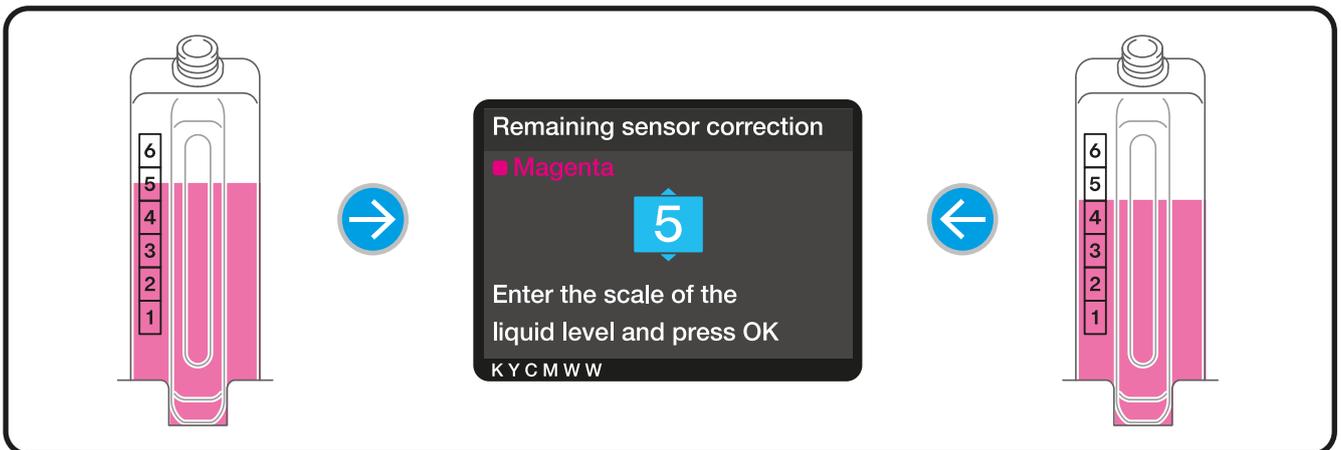


INPUTTING METHOD



Select the number where the **ink level** is **in contact**

If the liquid is **on the border**, please select **larger number**



CALIBRATION FAQ

Q Is it necessary to perform calibration for all colors once a month even though the remaining ink and the display on the main unit are not different?

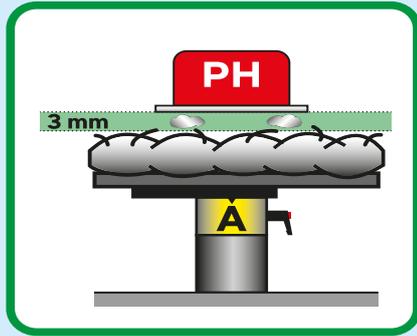
A **YES** *Even if there is no shift at present, all colors are needed to perform calibration once a month. This will prevent the shift from occurring. The reason for performing all colors at the same time is to **prevent** the number of warnings **from increasing***

Q What if the customer inputs **wrong number**?

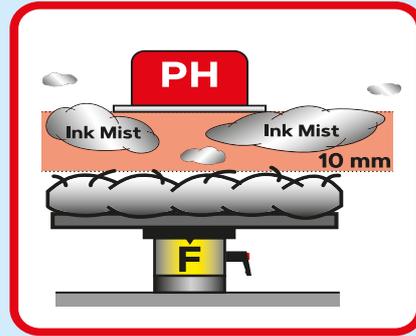
A *Enter the menu **again** and select "Remaining sensor correction". Then re-enter the **correct** values **for all colors!***



GOOD GAP



EXCESSIVE GAP

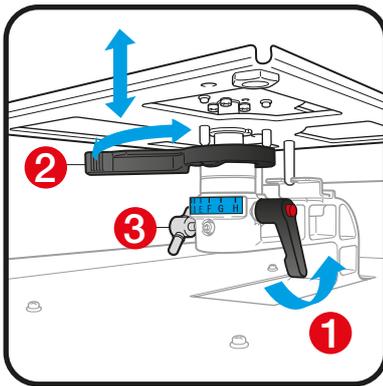


> ALWAYS KEEP THE **CLOSEST DISTANCE** BETWEEN THE PRINTHEADS AND THE SURFACE OF THE GARMENT!
IT IS VERY IMPORTANT FOR THE LONG LIFE OF YOUR PRINTER!

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 textile**.



To adjust the platen height, loosen the **Platen Fixing Lever ①** and move the **Platen Height Adjustment Lever ②** to a lower position.

Re-tighten the Platen Fixing Lever if you are happy with new distance. Flatten down all the wrinkles of the fabric. To check if new textile is not detected by the **sensor**, push the button ④ and **repeat** the process **if needed!** If you need to go down further more, remove 1 or 2 collars, loosen the knob ③ and push down the platen bearing by 1 or 2 steps.

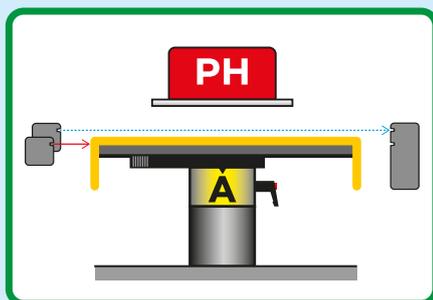
Reattach everything and tighten again the **Platen Fixing Lever**

- ⚠ > Don't forget to **bring back** the platen to the **A position** after 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!

NEW "PLATEN TOO LOW" SENSORS

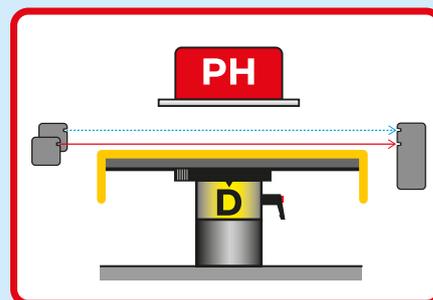


NORMAL DETECTING SITUATION



Top Left: **Obstacle** Sensor
Bottom Left: **EDP** Sensor

EXCESSIVE DROPPING SITUATION



Error Code: **2072**



NOZZLE TEST

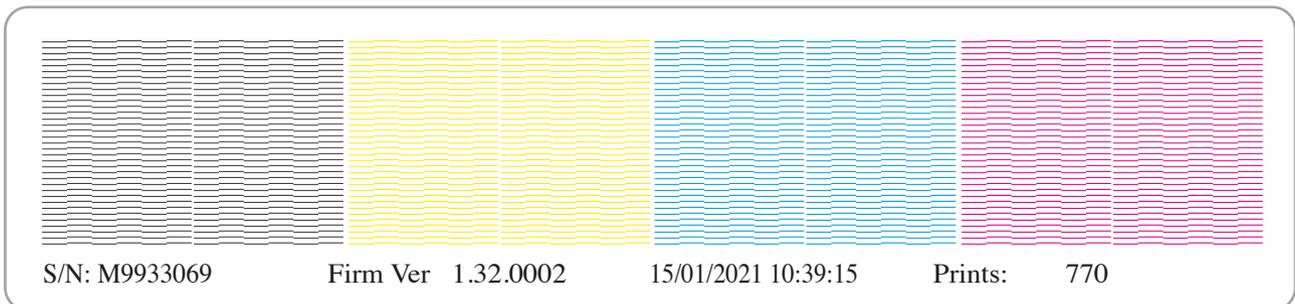
TO BE DONE EVERY WORKING DAY

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!

> HOW TO DO A NOZZLE TEST ?

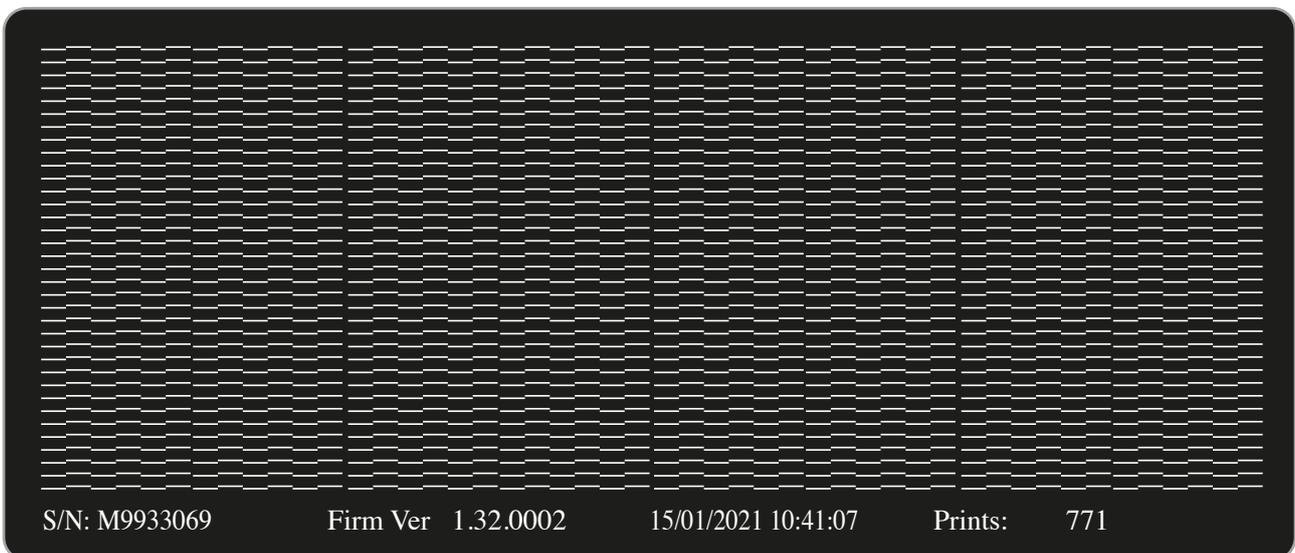
Always place the Platen at **level A**

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



Repeat the same procedure to perform a nozzle test of the **White** printhead

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!

> HOW TO DO A PRINTHEAD CLEANING?

If only a few nozzles are missing, select **Head Cleaning** > **Powerful Cleaning** and select **PH + OK**

If more than 10 nozzles, select **Head Cleaning** > **Super Cleaning** and select **PH + OK**

 > Perform a new Nozzle Test to check the result and **redo** if ALL nozzles are NOT firing!



To achieve a good **weekly maintenance** you will have to do the following actions:



WEEKLY MAINTENANCE

+ Suction Cap Cleaning

+ Exhaust Cleaning

+ Wiper 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

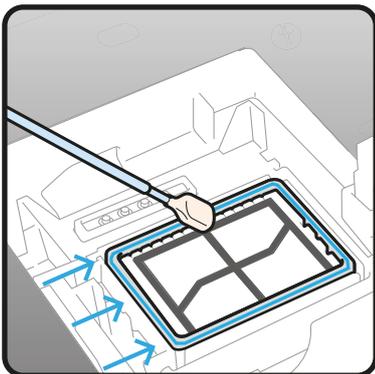
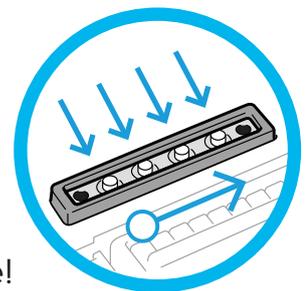
⚠ TO BE DONE EVERY WEEK

The black silicon lips of the two cappings should be cleaned with the **NEW Cleaning Stick** dipped in **Cleaning Solution**.

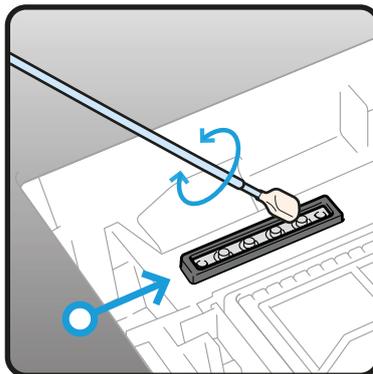


It is necessary to remove the build-up of the remaining ink staying on the edges of the cappings. It will prevent air leakage and keep the good suction of the pumps! Be careful not to touch the foam! Keep it flat!

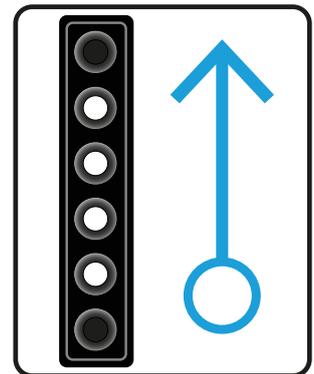
The **four extrusion lances** *[see in the blue circle]* and the **2 holes** sitting on the side of the capping at the **Exhaust** position need also to be cleaned and free of dried ink. Always **clean first the hole** at the front and go backward while cleaning the lances and finish carefully by the last hole!



Suction Cap Cleaning



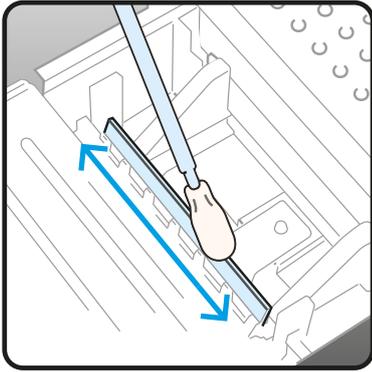
Exhaust Cleaning



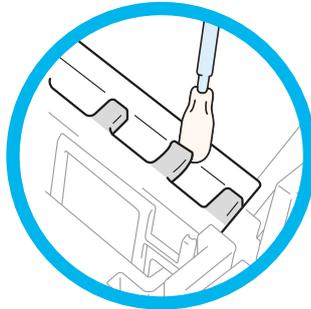
Direction to clean

Wiper Cleaning

! TO BE DONE EVERY WEEK



Both white plastic wipers [White & CMYK] should be cleaned on **both sides** and **tops** 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!

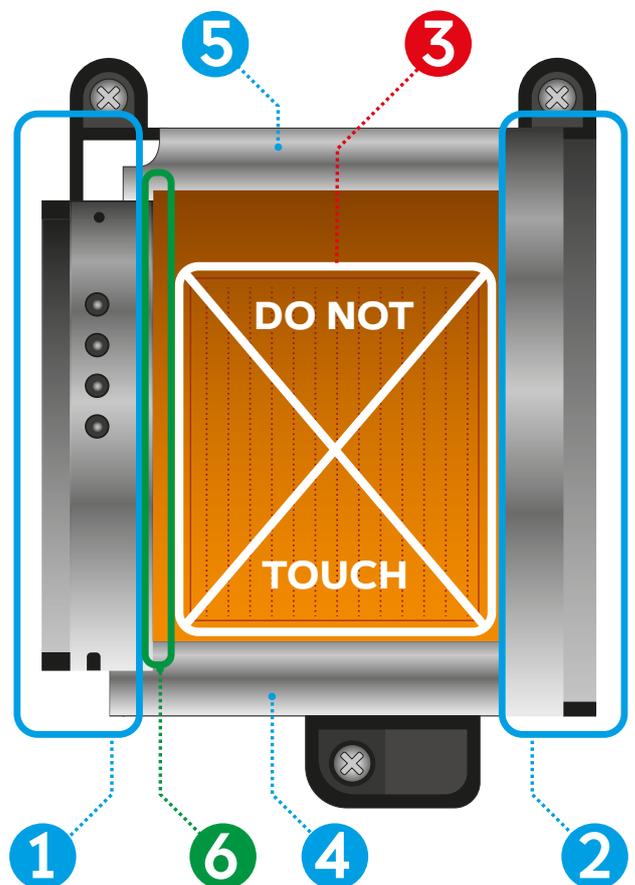
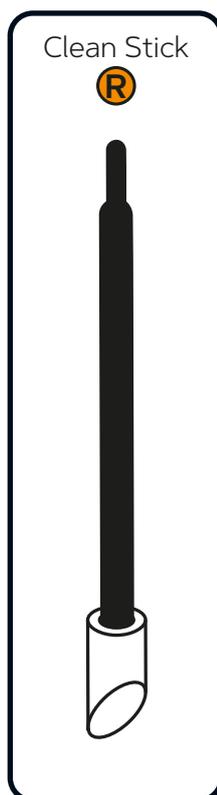
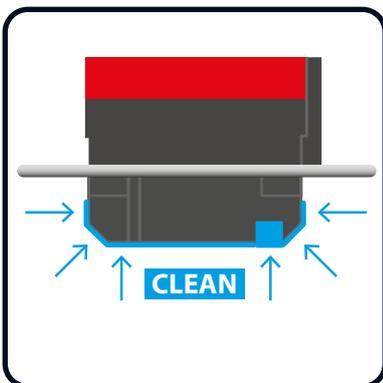
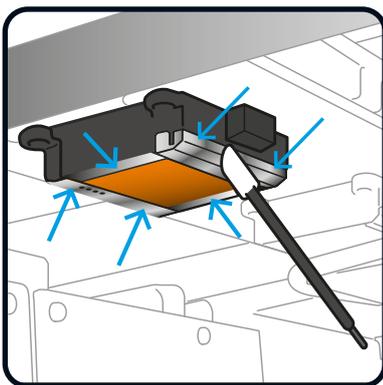
Nozzle Guards Cleaning

! TO BE DONE EVERY WEEK

Wipe clean the 2 nozzle guards ① & ② with the **Clean Stick R** dipped in **Cleaning Solution**. Same way to clean the metallic parts ④ & ⑤ of the printhead.

A **very important** place to clean is area ⑥ between nozzle guard and nozzle plate. Be sure **NOT** to touch the **nozzle surface** ③ at all!

💡 > Manually move the carriage to such a position that you can perform the cleaning **with ease**.



! > **Do not** empty remaining **Cleaning Solution** from the **Cleaning Cup** in the **Maintenance station** but in the **Waste Tank** below the printer!

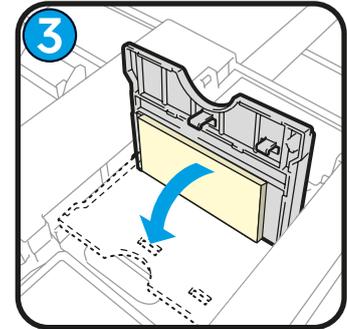
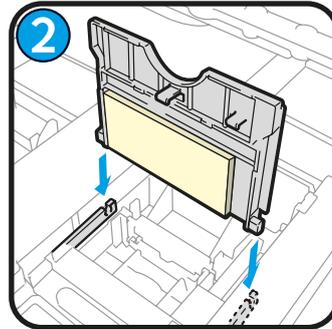
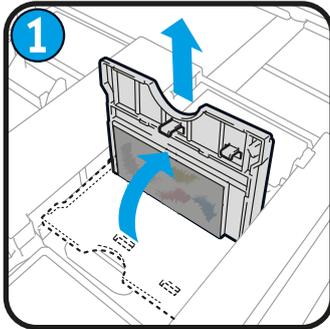


MAINTENANCE PARTS CLEANING & REPLACING PROCEDURES

WARNING **ERROR**

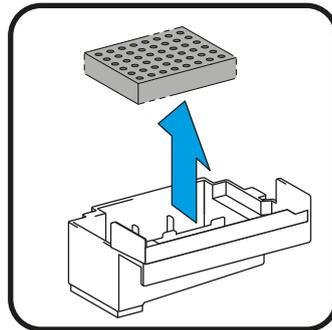
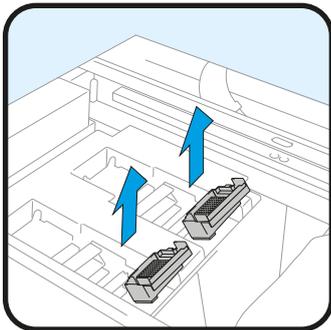
In case of Warning/Error messages please follow the below procedures

WIPER CLEANER REPLACEMENT



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

FLUSHING FOAM REPLACEMENT



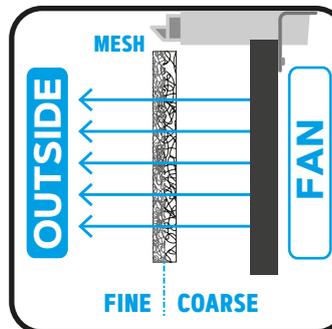
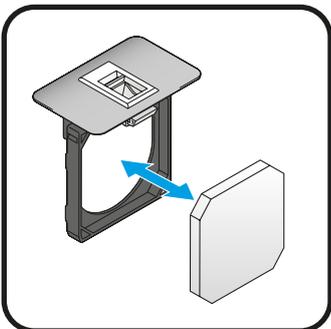
Lift up the Flushing Receivers and place them on cleaning paper to avoid dripping ink.

Remove Flushing Foams and **clean** the **holes** of the 2 grey receivers. Install new Foams and put back the receivers at their original location.

Clean also under the receivers place!

> After removing and replacing of the Flushing Foams, do **NOT** forget to **clean** the **side holes** of the receivers! It is very critical **to avoid clogging** of the ink path to the waste tank!

FAN FILTER REPLACEMENT



Extract the 2 filter holders from the back of the machine.

Mount a **new Fan Filter** in each black frames.

Coarse mesh surface in direction of the **inner side** of the printer and **fine** mesh surface in direction of the **outside** of the printer.

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

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



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 leakage of ink.

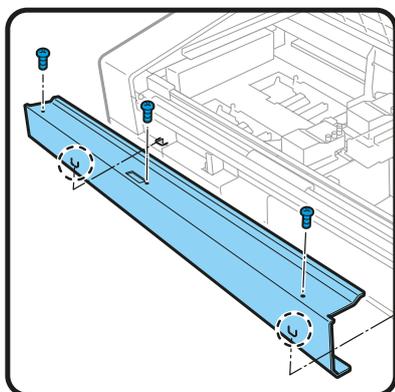
Please follow also all the instructions that could appear on the **display** of the printer!

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

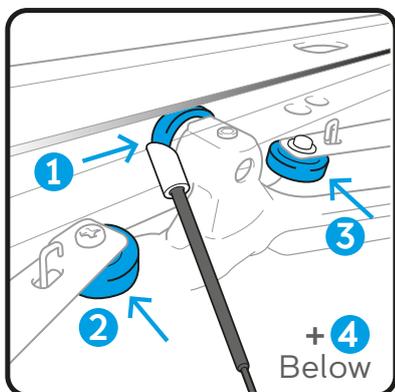


INTERNAL CLEANING OF PRINTER

 If the inside of your printer is covered with **INK MIST**, perform a thorough **CLEANING**



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



- With the **Clean Stick**  dipped in **Cleaning Solution**, wipe away the stains on the **4 Carriage Rollers**
[There is 1 more Roller hidden just below the Roller 1]

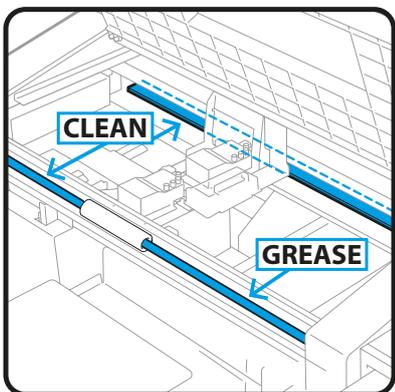
- Move the carriage from side to side to wipe all around the 4 rollers completely.

- Clean the **Carriage Guide Shaft** and the **3 sides** *[upper, front, and lower]* of **Roller Guide** with a non-fuzzy cloth moisten with a small amount of **Isopropyl Alcohol [95°]**

- **Do not** use alcohol on other parts 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. With your non-fuzzy cloth moisten with **Alcohol**, clean carefully both side of the **Encoder Strip**



- Perform a **CR Speed Adjustment**.

Menu > Printer Setting > CR Speed Adjustment > OK

- Print out a **Nozzle Check** pattern and do a **Nozzle Cleaning** if necessary.

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

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



WHEN NOT USING PRINTER FOR A LONG PERIOD OF TIME



! > When the printer will not be used for a prolonged period of time, take appropriate procedures before storing the printer depending on storage period or conditions.

! > **DO NOT** turn the printer OFF, otherwise, the printer may be **DAMAGED!**

EVERY 2 WEEKS OF INACTIVITY

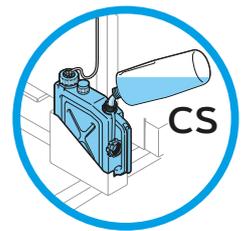


The printer can be used through normal procedure after the storage period, by performing the following maintenance tasks **before**:



- Please **empty** the **Waste ink Tank**.

- Check the amount of **Cleaning Solution** remaining in the cleaning liquid **tank**, and refill the tank if its amount is below the proper level.



- Clean thoroughly the **Nozzle Guard, Wiper, Suction Cap** and **Exhaust Cap** like in the Weekly Maintenance part [see page 13]



- Print out a **Nozzle Check** pattern for White and CMYK.

- If a non-firing nozzle is found: Perform **Head Cleanings**, run the **Nozzle Check** prints and verify the result again. Continue same process until the blocked nozzles are **ALL OPEN** again and firing!



! > REPEAT THE SAME **WHOLE PROCEDURE EVERY 2 WEEKS!**

INK & SOLUTIONS STORAGE

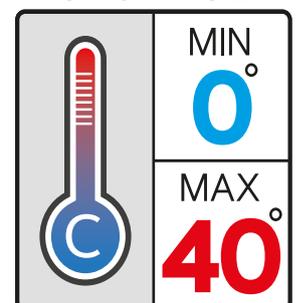


CMYK & White inks, Cleaning Solution, Maintenance Solution & Pretreatment Solution should be stored at a temperature range **between** minimum **0°** and **40°** maximum!

❄ > Be carefull **NOT** to go **below Zero** degree!

⌚ > Please **ROTATE** the **W** TANKS **every week!**

STORAGE



HOW TO EXTRACT A LOG FILE FROM THE PRINTER?



Insert a USB stick in the **front slot** of the printer to be able to copy the log file

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



INK & CONSUMABLES

GTXpro Bulk

	Product Description	Product Code	Prize/Unit
INKS	C Cyan Replenishment Ink Bottle 1,8L	BGCX40C002K0152	
	M Magenta Replenishment Ink Bottle 1,8L	BGCX40M002K0152	
	Y Yellow Replenishment Ink Bottle 1,8L	BGCX40Y002K0152	
	K Black Replenishment Ink Bottle 1,8L	BGCX40K002K0152	
	W White Replenishment Ink Bottle 18L	BGCX40W020K0032	
LIQUIDS	CS Cleaning Solution 1,9Kg	BGCX40E002K0052	
	CS Cleaning Solution 5Kg	BGCX40E005K0042	
	PT PreTreatment Liquid 5Kg-4L	BGCX40P005K0042	
	PT PreTreatment Liquid 20Kg-4L	BGCX40P020K0032	
OTHER PARTS	Wiper Cleaner [2 pieces in the box]	SB6673001	
	Flushing Foam [2 pieces in the box]	SC0935001	
	Fan Filter [2 pieces in the box]	SB7007001	
	Cleaning Sticks [50 pieces in the bag]	SB7008001	
	Cleaning Sticks [100 pieces in the bag]	N400001601	
	Cleaning Sticks SET [6x type + 6x type]	SB5858201	
	Curious Skin black A4 paper [for Nozzle Tests]	N400001660	

INKS & CONSUMABLES



GTX SERIES MAINTENANCE TUTORIAL VIDEOS

All the maintenance procedures described in this Cookbook **MUST** be performed on a daily, weekly, or prompted basis in order to keep your printer performing **properly**.

> Please read carefully the **Instruction Manual** for each specific maintenance procedure for step by step instructions!



Please also check **very useful videos** at:

<https://www.youtube.com/user/BrotherGTSeries/videos>



DEALER CONTACT

Company Name:

Email address:

Representative:

Phone number:

Notes: