

All useful information to succeed in your printing business



THE GT-3 SERIES

CookBook

Maintenance

v 2.1



A maintenance guide for all GT-3 Series users

brother
at your side



> Mandatory Temperature & Humidity Requirements :

TEMPERATURE		HUMIDITY	
	MIN		MIN
	18°		45
	MAX		MAX
	30°		85

OVERVIEW OF GT3 MAINTENANCE



There are several maintenance procedures that **must be performed** on a daily, weekly, or prompted basis to help keeping your printer performing **properly**. This guide will list the maintenance items that must be performed.

Please see the individual technical guide for each specific maintenance procedure for step by step instructions.

FIRST BASIC STEPS



> HOW TO DO A NOZZLE TEST ?

! TO BE DONE EVERY WORKING DAY



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

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

Menu > **Test Print** > **Nozzle Check White** > **OK** to check whites on transparent or black sheet

If not all the nozzles are firing, start a **Head Cleaning**

> HOW TO DO A PRINT HEAD CLEANING ?



Only a few nozzles missing, then **Head Cleaning** > **Normal Cleaning** ... and select **PH + OK**

If more than 10 nozzles, perform **Head Cleaning** > **Powerful Cleaning** ... and select **PH + OK**

Perform a new Nozzle Test to check the result and redo if not all nozzles are firing

HOW TO CREATE A LOG FILE ?



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

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



> Shaking White Ink

The White ink contains **titanium dioxide** which helps provide vibrancy.

This will separate after being stationary for more than **eighteen hours**.

Dull prints will result if the ink is **not agitated before use**. Put the white ink cartridge upside down and shake it side to side and tip end over end for **45-60 seconds**.

+ > No matter if you will have to do the **WTF** or **WA**, you **must SWI BEFORE!**

> White Tube Flush



If the printer has **NOT** printed with **white** ink a **minimum of 15 T-shirts** the day before...

OR



If the printer has **NOT** printed with **white** ink within the last **eighteen hours**

> Then the **WTF** **must be performed** after the **SWI**

> White Agitation

Firmware version 3.00 or higher



If the printer has printed with **white** ink a **minimum of 15 T-shirts** the day before...

OR



If the printer has printed with **white** ink within the last **eighteen hours**...

> Then the **WA** **could be performed instead of WTF** directly after the **SWI**

> TIP



After performing the daily maintenance on the white ink, a **nozzle check** should be **printed** to verify the print **quality!**



> WEEKLY MAINTENANCE PROCEDURE



White ink requires **weekly maintenance**. The white ink tubes needs a **weekly cleaning**. CMYK inks **does only** requires **quarterly** maintenance.

The **LCD Display** will prompt you when the White Tube Cleaning should be performed. The prompt will appear **seven days** after the completion of the **previous White Tube Cleaning**.

> White Tube Cleaning

! TO BE DONE EVERY WEEK

Menu > Maintenance > White Tube Cleaning > All Whites > OK and follow instructions on the display

This action washes away the pigments inside the **Tubes** and **Print Heads** but also cleans the **Tubes** of the **Maintenance Station**.

It is very important for the long life of your printer!

When you execute this menu **all-in-one time**, you can **retrieve** the White Ink before Tube Cleaning. It takes time but you can save the cost of the lost ink.

If you select the Tubes separately one by one then the White Ink will **not** be retrieved.

Directly after **WTC**, perform a **Load White** with freshly shaken White ink :

Menu > Maintenance > Load White > All Whites > OK and follow instructions on the display



NZC & PHC

After performing the White ink loading, a **nozzle check** should be **printed**.



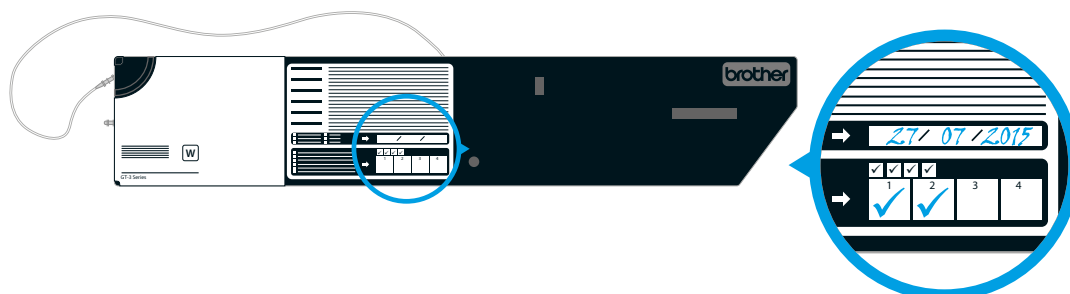
Please note that **1 week** after the **WTC** you will be prompted by the display to perform a new **WTC** automatically.

> MAINTENANCE CARTRIDGES WHITE

Because of the filtering system, this cartridge is a **consumable** part !

Use a new one after you finish **4 bottles** of Maintenance Solution [5Kg/5L of GC-50S5K] or **after one year** passes.

Use the label to **checkmark** the number of bottles used or/and the starting date.





> WEEKLY ADDITIONAL MAINTENANCE PROCEDURE



Visual inspection is important to keep your printer up and running.

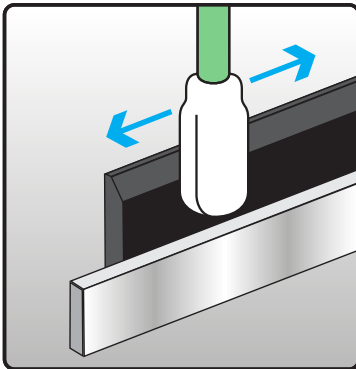
Verify all the moving parts of the machine and also check for leakage of ink.

After you have done the **WTC**, take the opportunity to **clean** the **rubber Wiper Blades** to avoid the white ink to dry and stay on the Wiper. It will prevent dry particules of ink to block the nozzles during the next cleaning.

Also **clean all the caps** of the maintenance station (specially the rectangle lip) to remove again dry ink but also some fluff and lint of the T-shirts. They will allow the air to pass through the capping station and reduce the good suction of the pump.

> WIPER BLADES CLEANING :

! TO BE DONE **EVERY WEEK**



The wiper **cleans** the underside of the **print heads** to allow the **nozzles** to fire properly. The wiper is cleaned by passing across the **wiper cleaner**.

Once this cleaner is dirty or over saturated, the wiper edge can **no longer be cleaned** and therefore no longer clean the nozzle plates.

Apply **cleaning solution** to a swab and wipe across the **front** and **backside** of the 2 wiper **rubber blades**.

Check the wiper edge for any **tear** or separation from the metal base. If any exists, the wiper sub-assembly must be replaced by a new one.



SPARE PARTS NUMBER:

SB3635001

> RUBBER CAPS CLEANING :

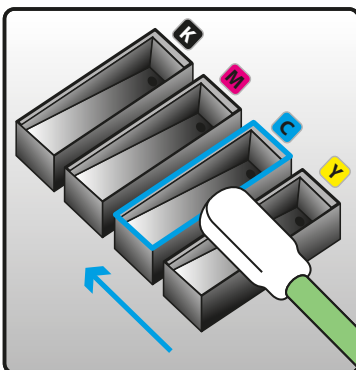
! TO BE DONE **EVERY WEEK**



Once the wipers are clean, the **rubbers caps** must be cleaned with the **swabs** as well.

The **rims** of the cap rubbers press against the bottom of the print head's CLP, to form a **seal** so air cannot dry the heads. If the rims of the caps have debris, dried or excessive ink, the ink will back away from the membrane and nozzles will **misfire**.

If this continues over time, the **print head** will dry and eventually become **defective**.



Moisten a swab as done for the wiper blade cleaning, and **swab the edges** and the **inside** of the **rubber caps**.

Use **one side** of a swab **per cap** so you do not **contaminate** one color to another, from **Y** to **C** to **M** to **K**.

Clean **White** caps also !

Once all of the caps have been cleaned, **insert** the **new wiper cleaners** in place. The wiper blades should be in the **center**, between the two sets of 4 rubber caps.

Power on the printer. The printer will boot up as normal except it will **drain each cap**, one at a time, before it moves the carriage.

STANDARD MAINTENANCE SCHEDULE



> WHITE Maintenance Standard Procedure for GT3 Series

Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun
361 381 W	1	WTC ⊕ LW	WTF	WTF	WTF	WTF	-
	2	WTC ⊕ LW	WTF	WTF	WTF	WTF	-
	3	WTC ⊕ LW	WTF	WTF	WTF	WTF	-
	4	WTC ⊕ LW	WTF	WTF	WTF	WTF	-

White Tube Cleaning

Load White

White Tube Flush



Shaking White Ink

Everyday before operating!



Cleaning & Greasing

MAINTENANCE with WHITE AGITATION SCHEDULE



> ONLY FOR USERS PRINTING A **MINIMUM** OF 15 PRINTS WITH WHITE INK ON BLACK OR DARK T-SHIRTS A DAY !!!



> 5 working days a week example

Min. 15 white prints a day!

Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun
361 381 W	1	WTC ⊕ LW	WA	WA	WA	WA	-
	2	WTF	WA	WA	WA	WA	-
	3	WTC ⊕ LW	WA	WA	WA	WA	-
	4	WTF	WA	WA	WA	WA	-

> 3 or 4 working days a week example

Min. 15 white prints a day!

Week	Mon	Tue	Wed	Thu	Fri	WE
361 381 W	1	WTC ⊕ LW	WA		WTF	WA
	2		WTC ⊕ LW	WA	WA	
	3	WTC ⊕ LW	WA	WA		
	4			WTC ⊕ LW	WA	WA

White Tube Cleaning

Load White

White Tube Flush



Shaking White Ink

Everyday before operating!

White Agitation



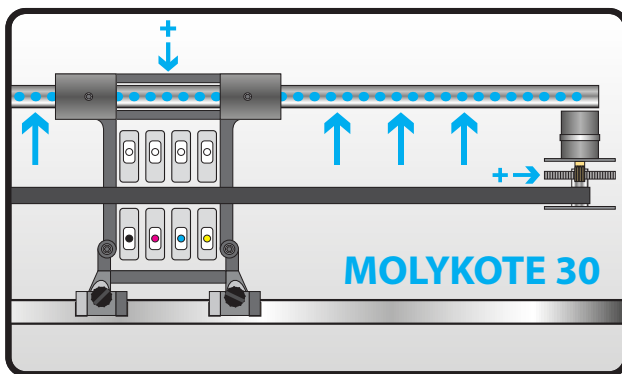
> MONTHLY MAINTENANCE PROCEDURE



Monthly Maintenance has to be performed on top of the **Daily & Weekly** Maintenance. The purpose is to keep the printer in the best status for printing without problems. Remember that it is better to spent 15 minutes every month than to be with machine down for several days !
We recommend you to do the **cleaning** and **greasing of the CR shaft, cleaning CR rail** and a good **visual inspection** of the printer.



CARRIAGE SHAFT CLEANING & GREASING



Pour alcohol (95% or higher) on a **cloth** and **clean the carriage shaft thoroughly**.

When clean, coat the shaft with **Molykote 30** white grease.

Don't forget to grease **between** the 2 bearings in the middle of the carriage.

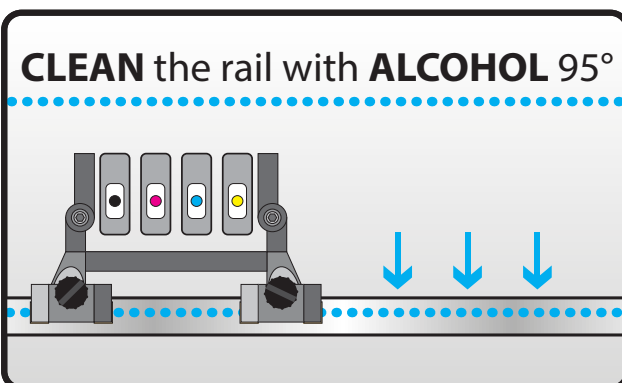
Add also a little bit of **Molykote 30 grease** at the bronze **sprocket** of the **CR Motor**.



SPARE PARTS NUMBER: **SB3229001**



CARRIAGE RAIL CLEANING



Unscrew the knob on the felt supports and remove them.

Pour a little **alcohol** (95% or higher) on a **cloth** and **clean the rail thoroughly**.

Remove and **replace the felts** on the bottom of the felt supports in accordance with the "**Maintenance Parts Exchange**".

Reattach both felt supports and tighten the knob screw.



After **cleaning & greasing the Carriage Shaft** and **cleaning the Carriage Rail** please, always perform a **CR Speed Adjustment** on the machine !



> MAINTENANCE PARTS EXCHANGE PROCEDURE :

The 2 **wiper cleaners** , the **fan filter**, the **flushing tray sponge** and **felt pads**, and the **carriage felt pads** need to be replaced in the **MPE** procedure.



The prompt to “**Exchange Maintenance Parts**” will occur after **EIGHTY** head cleanings (normal, powerful, or auto).

Normally after this amount of cleanings, the wiper cleaner will be **saturated** to the point where the wiper can **no longer be cleaned**. When this happens, the nozzle plate will not be cleared and the **nozzles** may be **blocked** or the **firing** may be **misdirected**.

Menu > Maintenance > Maintenance Parts Exchange > OK *follow instructions and turn off printer*

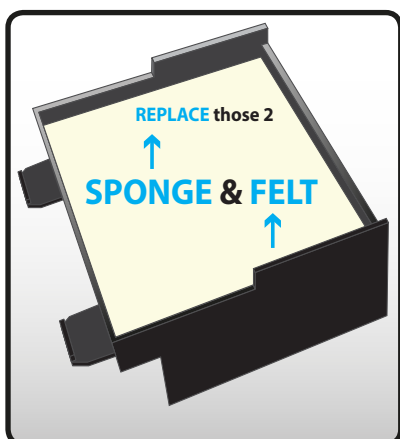


*It is important that you **use this menu** and not another one to replace **MPE** parts because it will **reset** the internal counter to **zero**!*

> Cleaning and Replacing Consumables on the GT3

Display Message :	ACTION to perform :
Flushing Plate Sponge Exchange	REPLACE THE FLUSHING SPONGE & FLUSHING FELT
Roller Felt Exchange	REPLACE THE ROLLER FELT & FAN FILTER
Wiper Cleaner Exchange	CLEAN RUBBER CAPS & WIPER BLADES <i>[to be done every weeks anyway]</i>
	⊕ REPLACE THE WIPER CLEANER
	⊕ REPLACE THE ROLLER FELT & FAN FILTER

> FLUSHING TRAY FELT & SPONGE REPLACEMENT :



Insert the **felt** into the **flushing plate**.

Place the **sponge** on **top** of the felt.

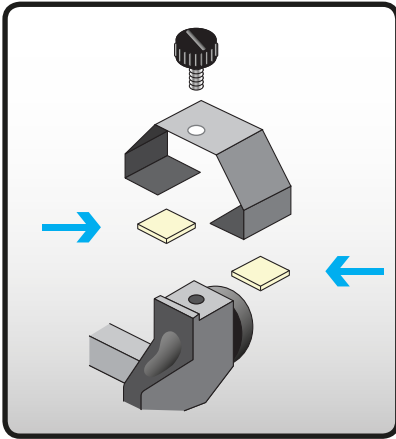
Install back the assembled flushing plate into the machine.

Check that the **flushing plate** is well inserted and sitting in an **horizontal position** to **avoid touching** the **PH's** in movement !

⊕ SPARE PARTS NUMBER: **SB 3004001**

⊕ SPARE PARTS NUMBER: **SB 3005001**

> CARRIAGE FELTS REPLACEMENT [now Roller Felts] :

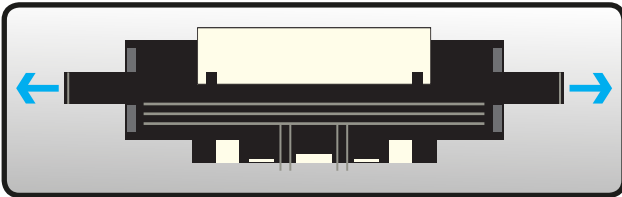


The **Carriage** contains **2 brackets** on the front edge that hold **4 felt pads** onto Velcro inserts. The carriage assembly has **2 wheels** that ride along the front rail. The pads keep the rail **clean** to help allow the carriage move unrestricted and smooth.

*Be carefull **not to bend** the 2 brackets, it may end up with **errors** (i.e. 6107. 6108) and also, **do NOT** put **oil** on the **felts** !*

+ SPARE PARTS NUMBER: **SB 2652101**

> WIPER CLEANER REPLACEMENT :

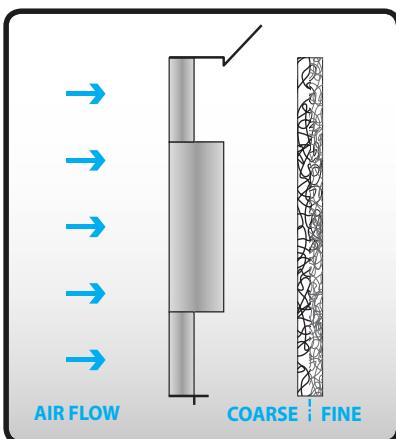


The **Wiper Cleaner** needs to be replaced **regularly** according to **MPE** or visual inspection.

Clean the Print Head Caps and Wiper Blade before replacing the Wiper Cleaner !

+ SPARE PARTS NUMBER: **SB3101001**

> FAN FILTER REPLACEMENT :



The fan filter collects the mist from the print head spray from the exhaust provided by the fan.

> Remember to place the new filter with the "**Coarse**" side inserted into the bracket.

> The air flow should enter the rougher side.

+ SPARE PARTS NUMBER: **SB3018001**

HOW TO CLEAN THE PRINT HEAD NOZZLES ?

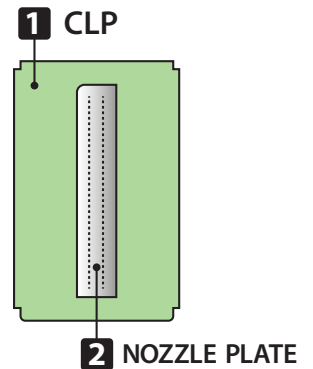


Go to the menu: **Maintenance** > **Nozzle Cleaning** *follow instructions and turn off printer*

- 1 With **Cleaning sticks** and cleaning fluid...
> *Clean the outside of the nozzle metal plate (Green aria = CLP)*

! TO BE DONE EVERY WEEK

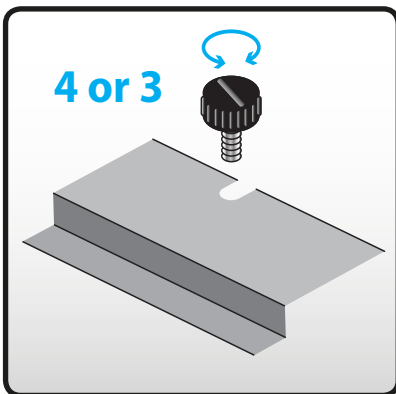
- 2 With **Clean Applicator** sticks and cleaning fluid...
> *Clean the surface of the small inner plate with nozzles, only in one direction without pressure! Hold the stick by his end!*



HOW TO CLEAN THE ENCODER STRIP?



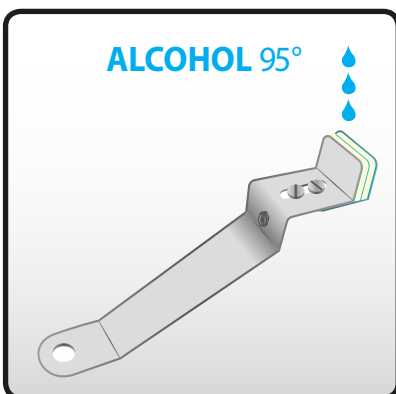
Menu > **Maintenance** > **CR Encoder Strip Cleaning** > **OK**



Loosen the four (or three, depending of model) black thumb **screws** (do not remove them completely) of the encoder cover, and remove the cover.

Slide the carriage to the **right side** of the machine.

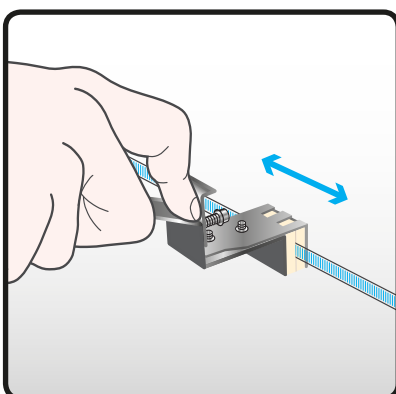
Take the **encoder cleaning tool**, and apply isopropyl **alcohol** (95% or higher) to the **felt** portion.



Gently slide the tool across the **encoder strip**, remembering to move the carriage to get the other side of the strip.

Once done 2 or 3 times, remove the encoder tool **being very careful** not to damage the strip.

Attach the **cover back** and tighten the 3 or 4 thumb **screws**.



Turn the **machine on**.



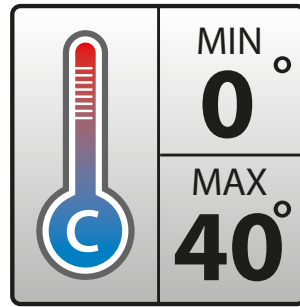
*After **cleaning** the **Encoder Strip**, perform a **CR Speed Adjustment** on the machine !*



INK STORAGE RECOMMENDATIONS

> Please keep in mind when **storing** the inks:

TEMPERATURE



SUNLIGHT



NEW SUPPLY MAINTENANCE KITS AVAILABLE FOR GT3

> FULL MAINTENANCE KIT :

2 x	Wiper Cleaner	SB3101001	4 x	CR Felts	SB2652101
10 x	Clean Stick	SB4000098	2 x	Gloves	---
1 x	Flushing Sponge	SB3004001	10 x	Clean Applicator	SB4000099
1 x	Flushing Felt	SB3005001	1 x	Wash Liquid	SB5679001
1 x	Fan Filter	SB3018001			

+ SPARE PARTS NUMBER: **SB5677001**

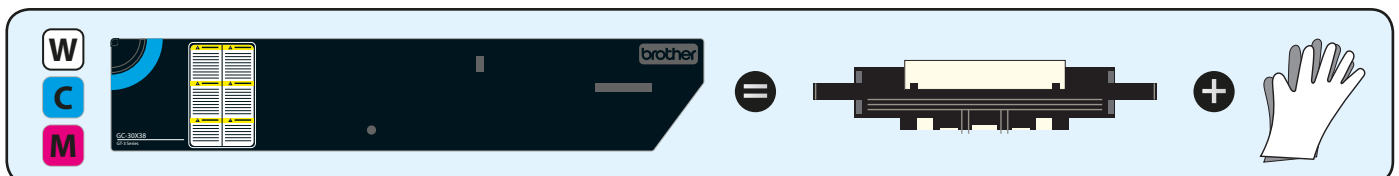
> FILTER FELT KIT :

10 x	Clean Stick	SB4000098	3 x	Fan Filter	SB3018001
3 x	Flushing Sponge	SB3004001	12 x	CR Felt	SB2652101
3 x	Flushing Felt	SB3005001			

+ SPARE PARTS NUMBER: **SB5678001**



MAINTENANCE PARTS INCLUDED IN CARTRIDGES



With each **White, Cyan & Magenta** cartridge, you will receive a **Wiper Cleaner** and a pair of plastic **gloves**.



> CLEANING STICKS :



100 x **Clean Stick** for Caps and CLP plate cleaning (*short rectangular model*)

+ SPARE PARTS NUMBER: **N40000598**

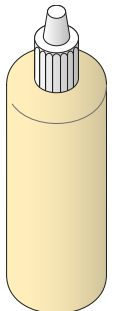


100 x **Clean Applicator** for Nozzle plate cleaning (*long cylindrical model*)

+ SPARE PARTS NUMBER: **N40000599**

> WASH LIQUID :

1 x 50cc **Wash Liquid** for cleaning Caps, Wiper blade, CLP plate and Nozzles



+ SPARE PARTS NUMBER: **SB5679001**

> WIPER ASSY :

1 x **Wiper Assy** for cleaning the surface of the Print Heads

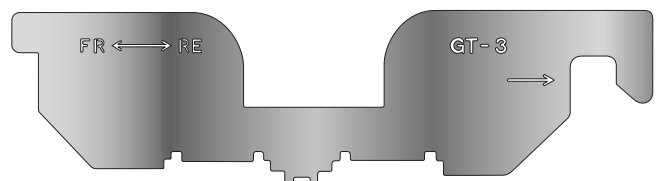
+ SPARE PARTS NUMBER: **SB3635001**



> METAL GAUGE :

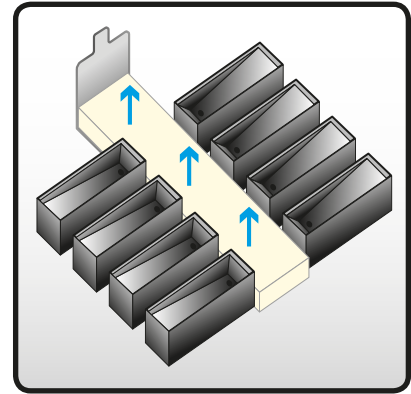
1 x Metal **Gauge** for good positioning of the Maintenance Station after cleaning

+ SPARE PARTS NUMBER: **SB3169001**



> CAP FELT :

When needed, you can replace the **Cap Felt** sitting in between the two sets of four caps. Just **lift** it and place a new one instead.



+ SPARE PARTS NUMBER: **SB 3006001**

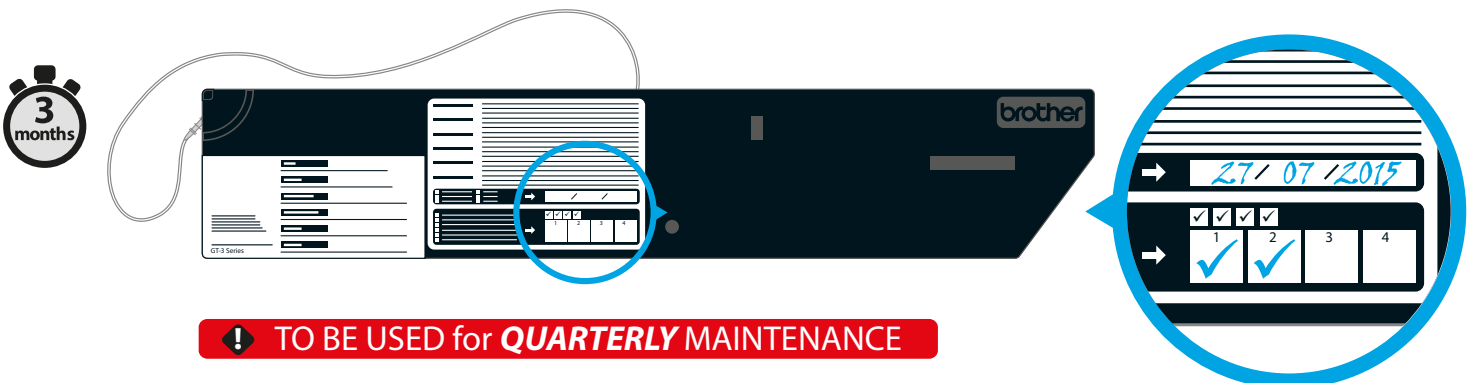
> CAPPING CARTRIDGE WHITE:



According to the Instruction Manual, this **Capping Cartridge White** should be placed in the machine after **WTC** for **long term storage** [i.e. *Holidays*].

+ SPARE PARTS NUMBER: **SB 3047001**

> MAINTENANCE CARTRIDGE for CMYK :



This **Maintenance Cartridge for CMYK** should be used to perform the **CTC** every **three months**. It is the only way to **clean** easily all the little **color tubes** inside the Maintenance station and keep a good suction of the pump to clean PrintHeads.
> It is also a consumable like the MNT Cartridge for White. Mark the date or check the 5L bottles.

+ SPARE PARTS NUMBER: **SB 3265201**



> If printer is only used for Color printing [no White]

Only **C M Y K**

	Preparation for Storage	Daily Maintenance	Regular maintenance
C M Y K Side	NONE	NONE	NONE
W W W W Side	NONE	Print W. Nozzle Check	White Tube Cleaning > once a Week!



+ in any case, clean the **CLP** of all Print Heads **before** storage! [see page 10]
+ clean **Wiper Blades** & rubber **Caps** [see page 4] + insert new **Wiper Cleaners** [see page 7]

> If printer will NOT work at all, for more than 2 weeks

	Preparation for Storage	Every 2 Weeks
C M Y K Side	Color Tube Cleaning + Clean the Caps & Wipers	Clean the Caps & Wipers + Load Wash Liquid in Caps
W W W W Side	White Tube Cleaning + Insert Capping Cartridges	Load Maintenance Solution in White tubes* + Capping Cartridges

* via Load White and MNT Cartridge with MNT solution instead of White ink cartridge

341 MODE



> **NEVER CHANGE MACHINE MODE TO 341 MODE WHEN WHITE HEADS ARE IN THE MACHINE!**

In 341 mode, the white heads **will not be purged automatically**.
This means that the wiper will do his job in dry condition.

THIS WILL DAMAGE ALL WHITE PRINT HEADS WITH NO WARRANTY !

> **341 Mode should only be used when white printheads are NOT installed.**
Maybe just at installation, when customer decides to use white ink much later

CONTACT DETAILS OF BROTHER DEALER



Company Name:

Representative:

Email address:

Phone number:

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> Calendar for Brother GT3 Series printers maintenance

MONTH	YEAR
January	2015
February	2016
March	2017
April	2018
May	2019
June	2020
July	
August	
September	
October	
November	
December	

DATES:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
WEEKENDS:																															
White Tube Flush:																															
White Agitation:																															
White Tube Cleaning:																															
Load White:																															
Shaft Cleaning & Greas.:																															
Mainten. Parts Exch.:																															
Caps Cleaning:																															
Wiper Cleaning:																															
Rail Cleaning:																															
Encoder Cleaning:																															
Color Tube Cleaning:																															

Check the maintenance manual for full details !

DAILY MAINTENANCE

+ Shaking White Ink



White Agitation



White Tube Flush

If not **15** or **18H**



WEEKLY MAINTENANCE

+ White Tube Cleaning

+ Rubber Caps Cleaning

+ Wiper Blade Cleaning



MONTHLY MAINTENANCE

+ CR Shaft Cleaning

+ CR Rail Cleaning

+ Visual Checking



QUARTERLY MINT

+ Color Tube Cleaning

+ Visual Checking

+ Maintenance Parts Exchange when prompted !