GT-F&D (LE) · SINGLE PHASE

FILL & DUMP DISH WASHER

Installation, operation and maintenance instructions. Three-door configuration. Read this manual completely before installing or operating the machine.

> **CAUTION**
>
> Access into the electrical enclosure must be performed by authorized personnel only. Before any servicing or periodic maintenance, close the water supply valve and switch the circuit breaker to the OFF position.

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1 · INTRODUCTION

The GT-F&D (LE) dishwasher is designed to provide years of excellent warewash results under a wide range of conditions. Each unit is configured as an automatic-start dishwasher: the wash cycle begins when the doors are closed.

The machine includes a three-product chemical dispenser mounted on top, dispensing liquid detergent, rinse product and a chemical sanitizer suitable for low-temperature applications (140 °F recommended). Options and additional features are available — contact Global-Tek Canada for details.

2 · INSTALLATION

1. Inspect the dishwasher upon receipt. The machine ships fully assembled; no field assembly is required.
2. Examine the location where the dishwasher will operate. Confirm that all electrical and plumbing connections, as well as dish table placement, have been accounted for. Required service parameters are listed below.

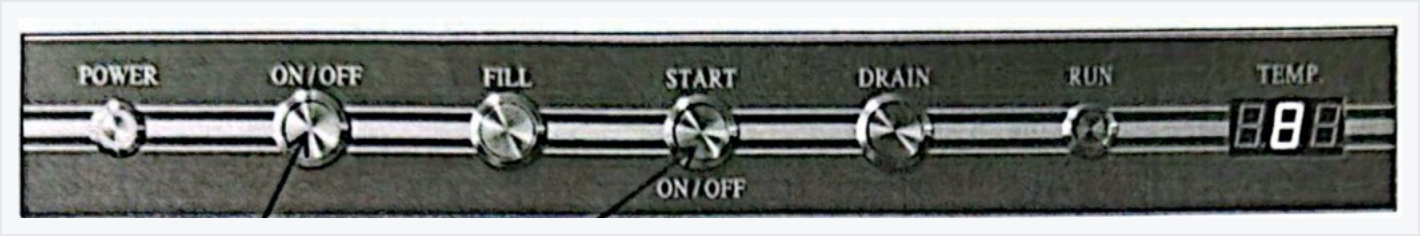
ELECTRICAL	WATER LINE	DRAIN LINE
120V, 20 A circuit	Minimum 20 psi flow pressure at 140 °F ¾″ FPT connection on machine	1½″ MPT on scrap accumulator

3. Place the detergent, sanitizer and rinse tubing into the corresponding chemical drums.
4. Move the dishwasher to its final operating position.
5. Connect the hot water supply line to the ¾″ FPT line strainer at the rear of the machine. Ensure water pressure is sufficient for fill — approximately 10 GPM at 20 psi. Connect the drain to the 1½″ MPT nipple on the scrap accumulator. Make electrical connections to the labelled barrier at the inside back of the control box, referring to the data plate for voltage and current ratings. Run all electrical wire through suitable conduit and ensure connections comply with local wiring codes. **It is recommended that the circuit breaker carrying the dishwasher load have no other electrical devices connected.**
6. Attach the pre-wash and drying tables, allowing sufficient space for the operator. Ensure the adjustable legs on both tables are set for proper water drainage.



Chemical pickup tubing

3 · INITIAL OPERATION



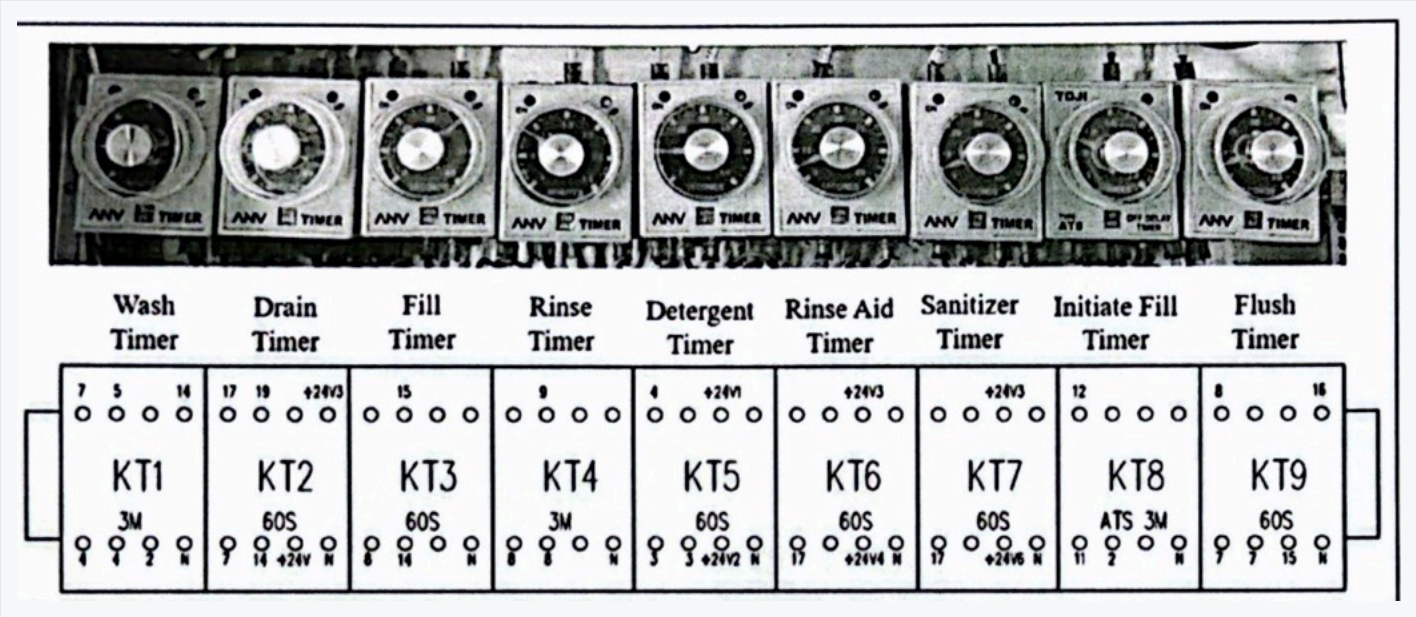
CONTROL PANEL — POWER · ON/OFF · FILL · START · DRAIN · RUN · TEMP

1. Check that the scrap trays in the wash tank are correctly seated.
2. Start with all switches in the OFF position. Push-in is ON.
3. Push **ON / OFF** to turn on the machine. With the doors closed, push **FILL** to automatically fill the dishwasher with fresh 140 °F water (120 °F minimum). Fill time is set on timer KT9, located on top of the timer bank.
4. Push **START** with the doors closed; the machine begins to wash. Allow it to run one complete cycle and observe the sequence. The factory setting is a 90-second cycle; the machine can be adjusted to 120, 90 or 72 seconds (see section 4). *Cycle adjustments must be made by authorized personnel only.*
5. Push **DELIME** to switch off all dispenser pumps when deliming the machine.
6. Initial fill time may need adjustment in the field according to local water pressure. Refer to the timer chart in section 4.

> **DELIME BUTTON**
> The delime button is located on the right-hand side of the control panel. It switches off all three chemical pumps so a delime solution can circulate without being diluted. Release it when the delime cycle is finished.

4 · TIME SETTINGS

Authorized personnel only. Time settings for the detergent pump, fresh water fill, sanitizer pump and rinse pump are made inside the control box using the mechanical timers. Use the chart below to adjust the required settings.



Timer bank and terminal identification. Left to right: KT1 wash · KT2 drain · KT3 fill · KT4 rinse · KT5 detergent · KT6 rinse aid · KT7 sanitizer · KT8 initiate fill · KT9 flush

POT CONTROL ADJUSTMENT CHART

POT CONTROL	ACTIVE TIME IN 90 SECONDS	SPAN OF POT TIME ADJUSTMENT	COMMENTS
Wash time	Starts at 0 sec	45–60 sec	Set the required timing by turning the KT1 timer, located on top of the timer bank.
Detergent pump	Starts at 0 sec	2–30 sec	Set the required timing by turning the KT5 timer, located on top of the timer bank.
Drain	Starts at 46 sec	10–15 sec	Set the required timing by turning the KT2 timer, located on top of the timer bank.
Sanitizer pump	Starts at 96 sec	0–15 sec	Set the required timing by turning the KT7 timer, located on top of the timer bank.
Rinse aid pump	Starts at 96 sec	0–15 sec	Set the required timing by turning the KT6 timer, located on top of the timer bank.
Flush time	Starts at 53–56 sec	10–15 sec	Flush start is set according to water pressure and the time required to rinse debris down the drain. Adjust the timer accordingly. Set the required timing by turning the KT9 timer, located on top of the timer bank.
Fill time	Determined by fill start	10–42 sec	Fill time begins at the setting of the fill start. Once fill start is set, the fill time determines the duration of time the fresh water solenoid valve remains open. Adjust the timer according to water pressure. Set the required timing by turning the KT3 timer, located on top of the timer bank.
Rinse time	Starts at 96 sec	45–60 sec	Set the required timing by turning the KT4 timer, located on top of the timer bank.

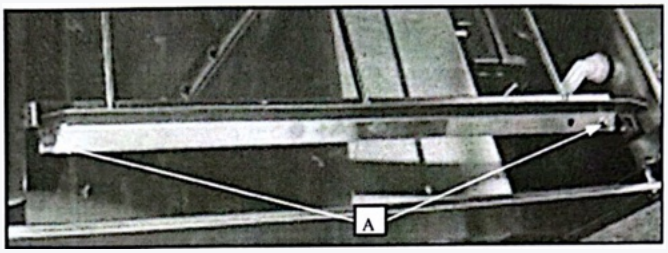
5 · NORMAL OPERATION

1. Manually remove food debris from dishes, glasses and cups. The better the pre-rinse, the better the wash.
2. Load dishes, glasses and cups into the dish rack. Do not stack. Place glasses and cups upside down.
3. With the run power switch ON, close the dish machine doors — the machine starts automatically. The wash cycle is fully dependent on the timer settings.

6 · INLINE OR CORNER DOOR CONVERSION

Conversion from inline to corner is done by changing the position of the tray stop on the tray rails. Machines are factory set in the inline configuration; conversion is easier before tabling is attached.

Remove the two bolts and nuts marked **A** securing the tray rail stop, and reposition the stop to the desired configuration.



Tray rail stop — bolts marked A

7 · DRAIN TRAP CONVERSION

If removal of the scrap trap screen is obstructed by space limitations, the scrap trap can be remounted for front removal.



1. Loosen the four M8 nuts at the bottom of the tray.

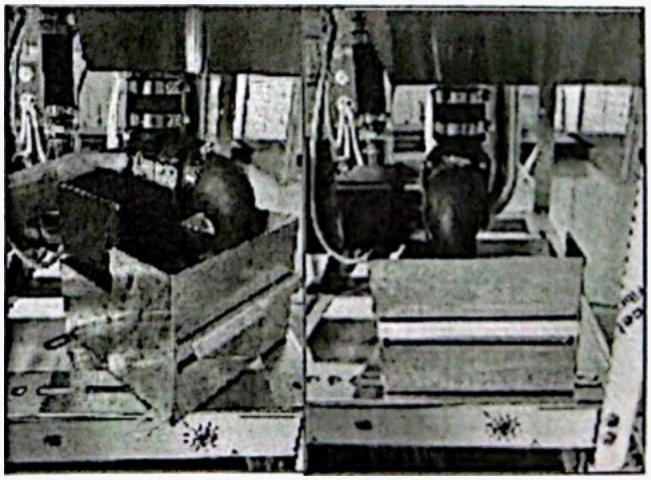


2. Loosen the drain valve bracket — four M8 nuts and two M5 copper nuts.



3. Loosen the single M8 nut at this position.

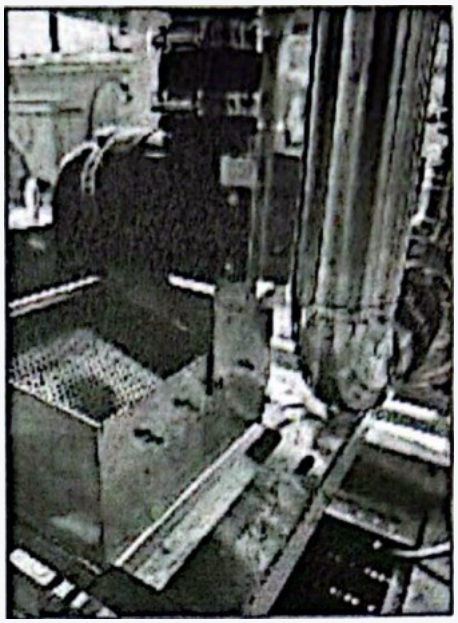
7 · DRAIN TRAP CONVERSION CONTINUED



4. Loosen the clamp on the drain valve inlet hose, then rotate the drain valve and tray 90° as a unit.



5. Install the M8 screws, nuts and washers removed in step 3 into this position and tighten.



6. Reinstall the screws, nuts and gaskets into the bottom of the drain valve bracket and tray, and tighten.

BEFORE RETURNING TO SERVICE

Check that every fastener loosened in steps 1–3 has been refitted and tightened, and that the inlet hose clamp is secure.

Refill the tank and run one full cycle with the doors closed, watching the drain valve and tray joint for leaks before putting the machine back into production.

8 · MAINTENANCE SCHEDULE

> **Caution.** Before performing periodic maintenance, ensure the water supply valve is turned off and the circuit breaker is in the OFF position.

TASK	FREQUENCY	PROCEDURE
Clean fresh water line strainers	Every 2 months — more often on dirty supply	Close the supply valve, remove the strainer cap, withdraw and rinse the screen, then reassemble. 
Clean scrap accumulator	End of each meal period, or as needed	Remove the accumulator, empty the debris and rinse before refitting.
Check and clean drain valve	Once a day, or as needed	Ensure nothing is blocking the drain valve; remove any obstruction found.
Clean spray arms	Once a day, or as needed	Remove the end caps and dislodge debris from the spray jets with a toothpick or other pointed object. Flush the length of the spray arm with water. 
Wipe down machine and tabling	Once a day, or as needed	Use a damp cloth and detergent.
Delime the machine	As required	Use a delime solution recommended by your chemical supplier. Push the **DELIME** button on the right-hand side of the control panel to switch off all chemical pumps. Pour the solution into the wash tank and start the machine. When deliming is complete, release the delime button to return the chemical pumps to normal operation.

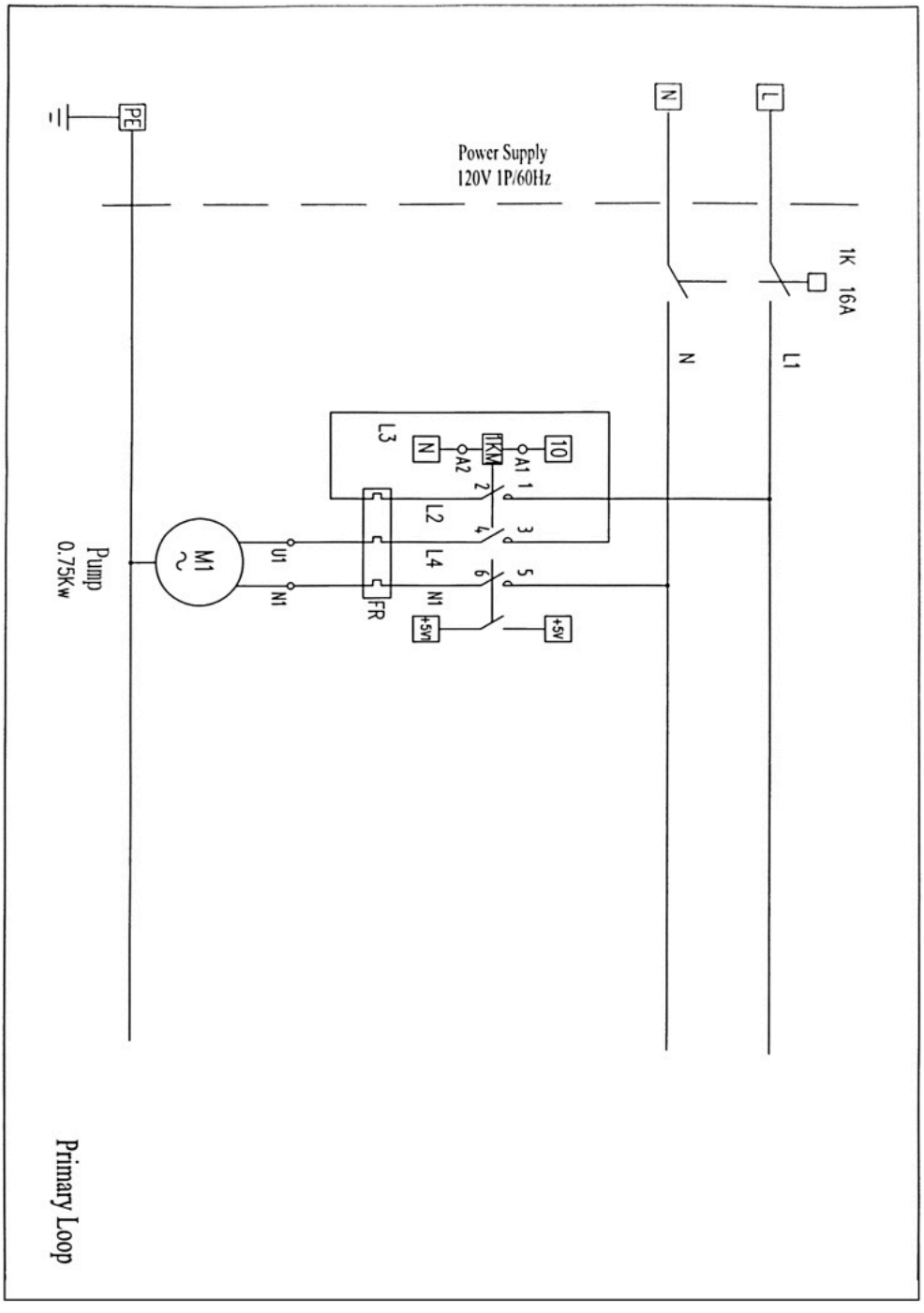
9 · TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
Low or no spray arm pressure	Impeller clogged Pump intake tube clogged Spray arm or spray tips clogged Low water level	Remove the pump face and clean the impeller * Remove the pump face and push debris out of the intake tube * Remove and clean the spray arm (section 8) Fill the tank to the proper level (section 3)
Dishwasher will not start	Door is open Run power switch is OFF No supply voltage 3/8 A fuse to transformer is blown	Close the machine doors fully Switch the machine on Check the power supply Replace the 3/8 A fuse
Poor chemical injection (detergent, rinse, sanitizer)	Not enough chemical Poor chemical flow Faulty chemical pump motor No chemical flow	Adjust the timer * Replace the pump squeeze tube Replace the chemical pump motor * Check for an empty product container
Leaky or noisy vacuum breaker	Water pressure too low Water pressure too high	Clean the screen (section 8) Adjust fill pressure (section 2)
Reduced wash results	Worn spray arm bearing Machine not level Tray rails damaged	Replace the bearing Level the machine with the bullet feet (section 2) Replace the tray rails
Dishwasher will not fill	Faulty solenoid valve Y-strainer screen clogged Water supply line is off Faulty fill push button Fill level not set correctly	Call for service * Clean the screen (section 8) Open the supply valve Call for service * See section 2
Dishwasher will not drain	Faulty drain solenoid Drain / fill fuse is blown	Call for service — open the machine and lift the drain ball * Replace the 2 A slow-blow fuse
Brown stains inside machine	High iron content in water	Delime the machine to remove the stains. When complete, leave the doors open so the interior dries.

* To be carried out by authorized service personnel only.

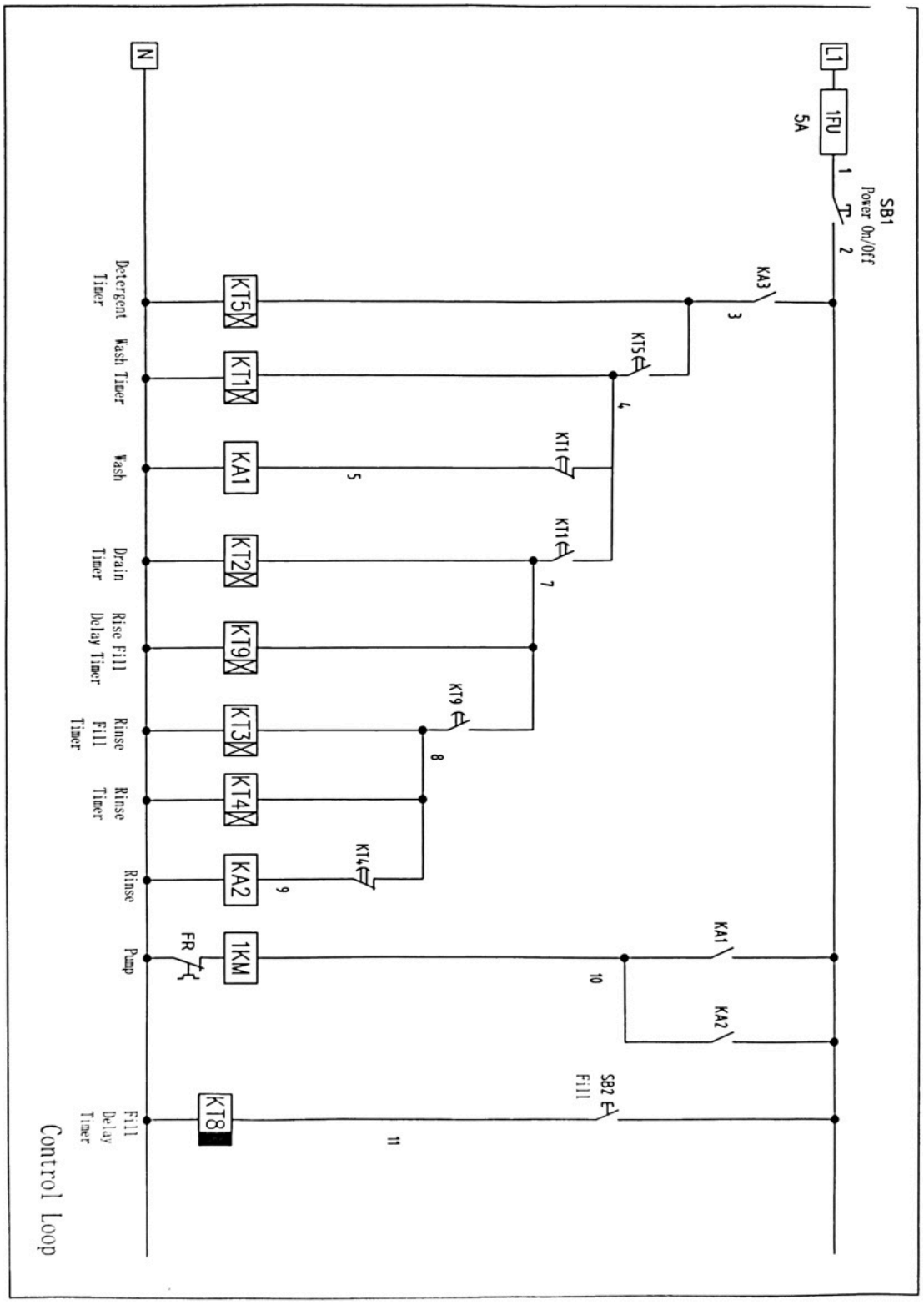
10 · WIRING DIAGRAMS

Authorized personnel only. Power supply 120V, 1 phase, 60 Hz.

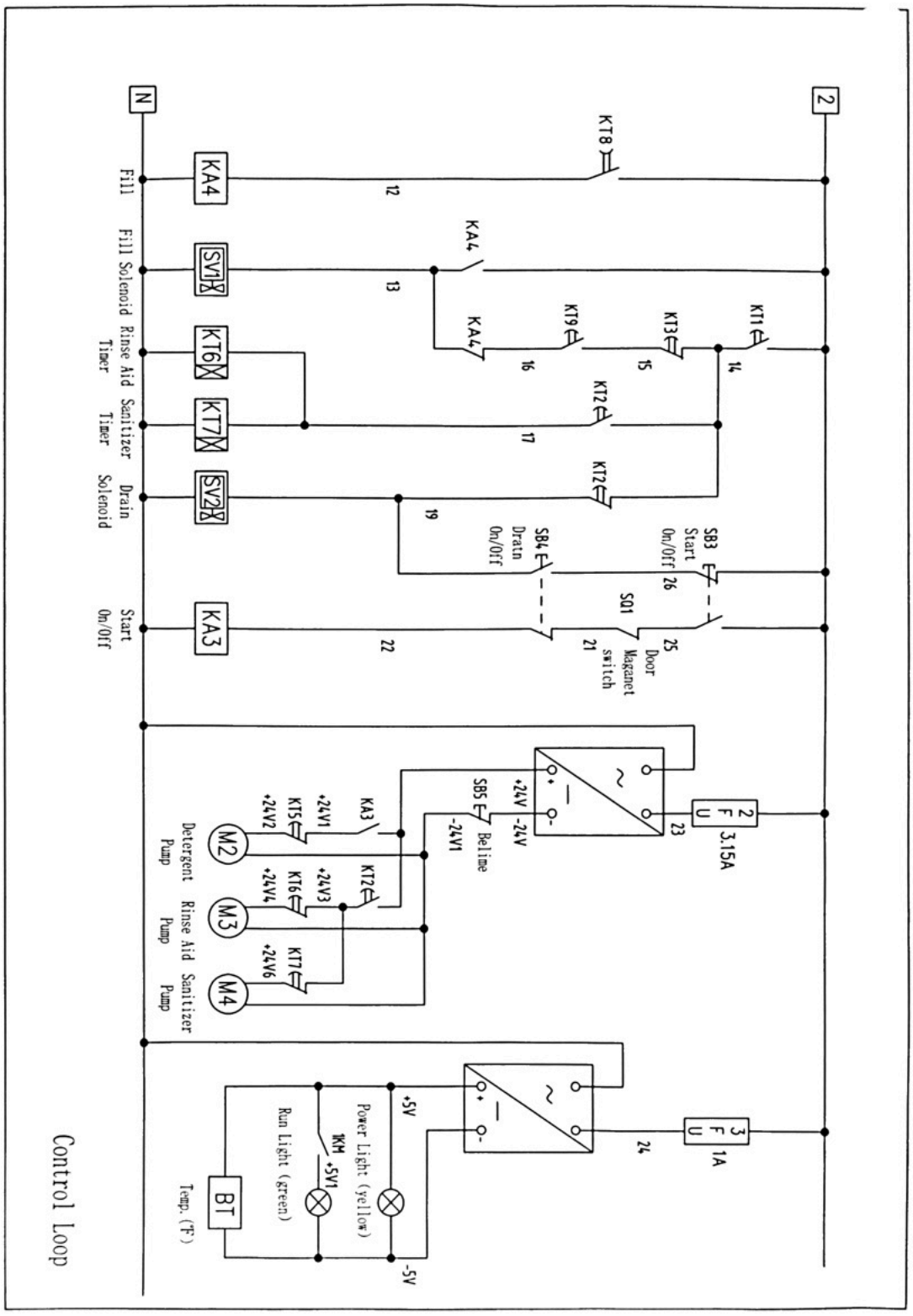


PRIMARY LOOP

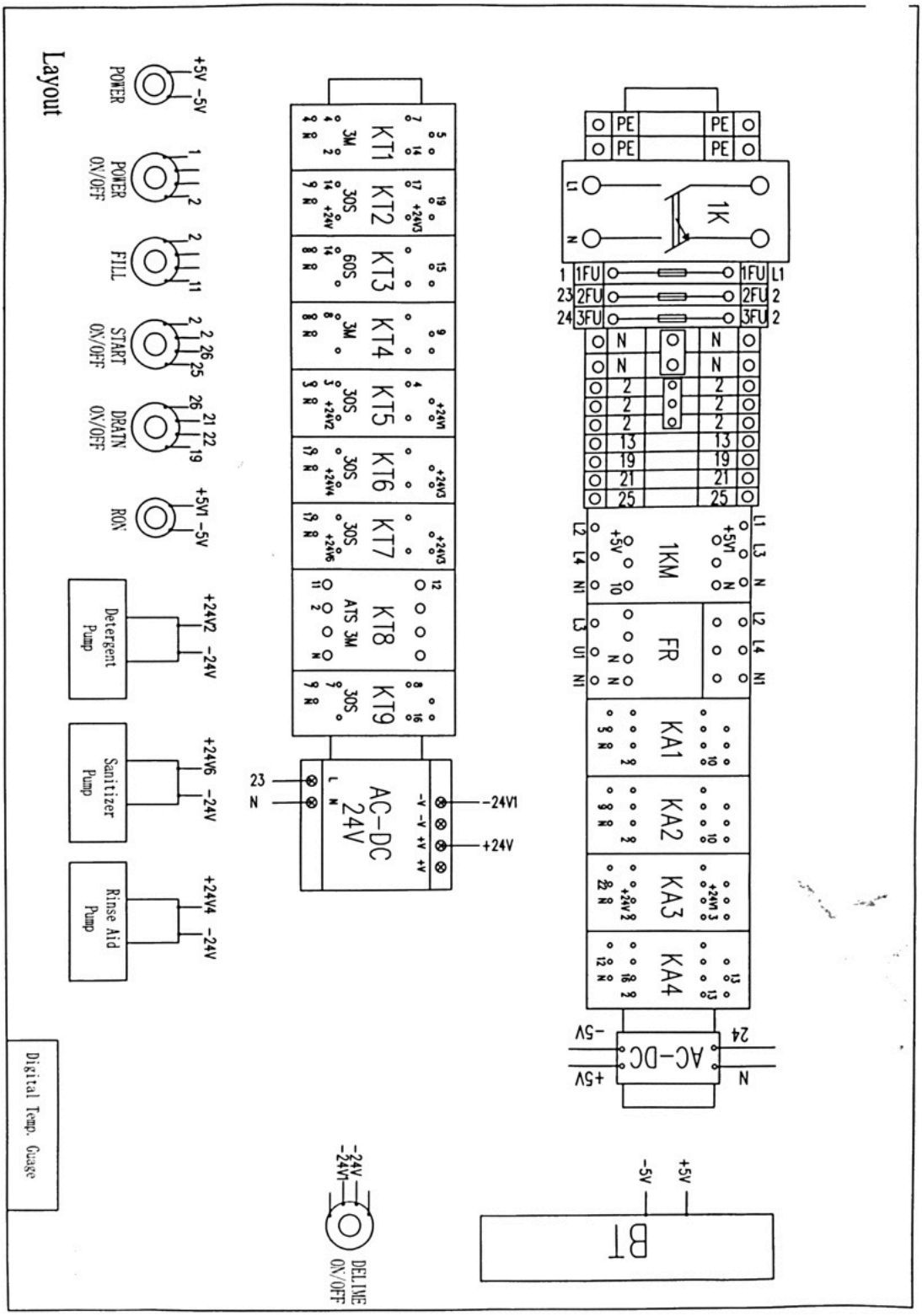
CONTROL LOOP — SHEET 1



CONTROL LOOP — SHEET 2



CONTROL BOX LAYOUT



11 · WARRANTY & DISCLAIMER

WARRANTY

Global-Tek Manufacturing warrants this equipment against defects in material and workmanship for a period of **twelve (12) months** from the date of shipment to distribution centre, and **three (3) months** for parts sold separately.

Warranty applies only to the replacement or repair of parts returned to the factory with a reference number, freight prepaid, and found defective on inspection. Bearings, pump seals, and rubber or synthetic rubber parts such as O-rings, diaphragms and gaskets are considered expendable and are not covered. The warranty does not cover liability arising from the performance of this equipment, nor the labour to replace it. Product abuse or misuse voids the warranty.

DISCLAIMER

Global-Tek Canada does not accept responsibility for the mishandling, misuse or non-performance of the described equipment when used for purposes other than those specified in these instructions. This equipment is not for use in potentially explosive environments; any such use is at the risk of the user, and Global-Tek Canada accepts no liability in those circumstances.

FOOTNOTE

The information and specifications in this publication were in effect at the time of approval for printing. Global-Tek Canada reserves the right to discontinue or change specifications or design at any time without notice and without incurring any obligation.

SERVICE & PARTS

TALK TO GLOBAL-TEK CANADA

Have your model and serial number ready — both are on the data plate at the rear of the machine.

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