GL

Operator Manual

STARLINE®

PROFESSIONAL WASH SYSTEMS

WARNING
Before installation and commisioning, you must read the safety instructions and warnings carefully and all the warning labels attached to the equipment.

IMPORTANT
Failure to comply (even partially) with the instructions given in this manual will invalidate the product warranty and relieves the manufacturer of any responsibility

IMPORTANT
The alteration of machine operation, design or the replacement of parts not approved by the manufacturer may void warranties and approvals.

IMPORTANT
This machine is intended for commercial use only.

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We have checked that the contents of this document correspond to the model described. There may be discrepancies nevertheless, and no guarantee can be given that they are completely identical. The information contained in this document is reviewed regularly and any necessary changes will be included in the next edition. We welcome suggestions for improvement.

Specifications and document subject to change without prior notice.

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Parts 09 829 0930

STARLINE®

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Safety Instructions

WARNING
Equipment contains dangerous voltages and can be hazardous if installed or operated incorrectly. non-compliance with warnings or failure to follow the instructions contained in this manual can result in loss of life, severe personal injury or serious damage to property.

Installation
- Use qualified, skilled personnel
- Follow installation instructions
- Connect to correct voltage and supply current
- Provide fully accessible electrical Isolation Switch & water supply valves

Training and Supervision
- Read and understand the Operating instructions and train all staff
- This appliance must not be operated by children or infirm persons
- Machine panels must only be removed by suitably qualified and trained personnel – internal hazards include live electrics and very hot surfaces
- This appliance is not intended for use as a stepladder

Hot Surfaces
- Some surfaces may be hot or very hot

Chemicals
- Commercial dishwashing detergents are hazardous – handle with care
- Read and follow the safety information found on the labels of detergent containers and Material Safety Data Sheets
- Use protective eyewear and clothing if decanting containers

Hot Water
- Do not put hands in wash water which may be over 60°C and contain hazardous caustic detergent
- Rinse water can be over 90°C
- Door safety switches are designed for emergency use only

Cleaning
- Do not hose down the machine or splash water over the exterior
- Watch for broken glass etc when cleaning the inside of the machine

Service/repair
- Under no circumstances the user should attempt to carry out repairs
- All service/repair work must be carried out by qualified personnel only
-

Power Cord Replacement
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similar qualified person in order to avoid a hazard

Installation Checklist

WARNING
Installer must be suitably qualified and ensure compliance with all codes and standards including AS/NZS3500.1.

Unpack
- Unpack the machine, check for damage and complete delivery.

Positioning
- Place machine on sound waterproof self draining floor and adjust feet to level
- Allow room for adjacent chemical containers

Water
- Flush supply lines before connection
- Connect hose supplied to adjacent accessible isolator valve - 20 mm 3/4 male
- Flow rate required - 15 litres per minute
- Temperature - 65˚C
- Consumption per cycle - 2.6 litres
- Pressure required - 200-350 kPa - fit limiter above this pressure
- Back Flow - Atmospheric Vacuum Breaker
- Potable water quality is required - filter or soften if necessary

Water Quality Requirements

Hardness	ppm	pH
min	20	7
max	100	8

Ions	Cl^-	SO_4	Fe	Mn	Cu	Cl_2
Max mg/L	100	400	0.1	0.5	0.05	0.1

Power
- Machine shipped with cordset for 15 A 230V 50Hz via adjacent switched outlet.
- Easily upgradeable to single phase 25 A 230V 50Hz or three phase 15 A per phase 400V 50Hz

Waste
- Connect drain pump hose supplied to vented upstand or sink waste connection

Detergent
- Insert hose into container of commercial dishwasher low foam detergent
- Adjust detergent dosing and prime detergent using the keypad (refer to page 7)
- Use good quality chemicals and regularly check containers

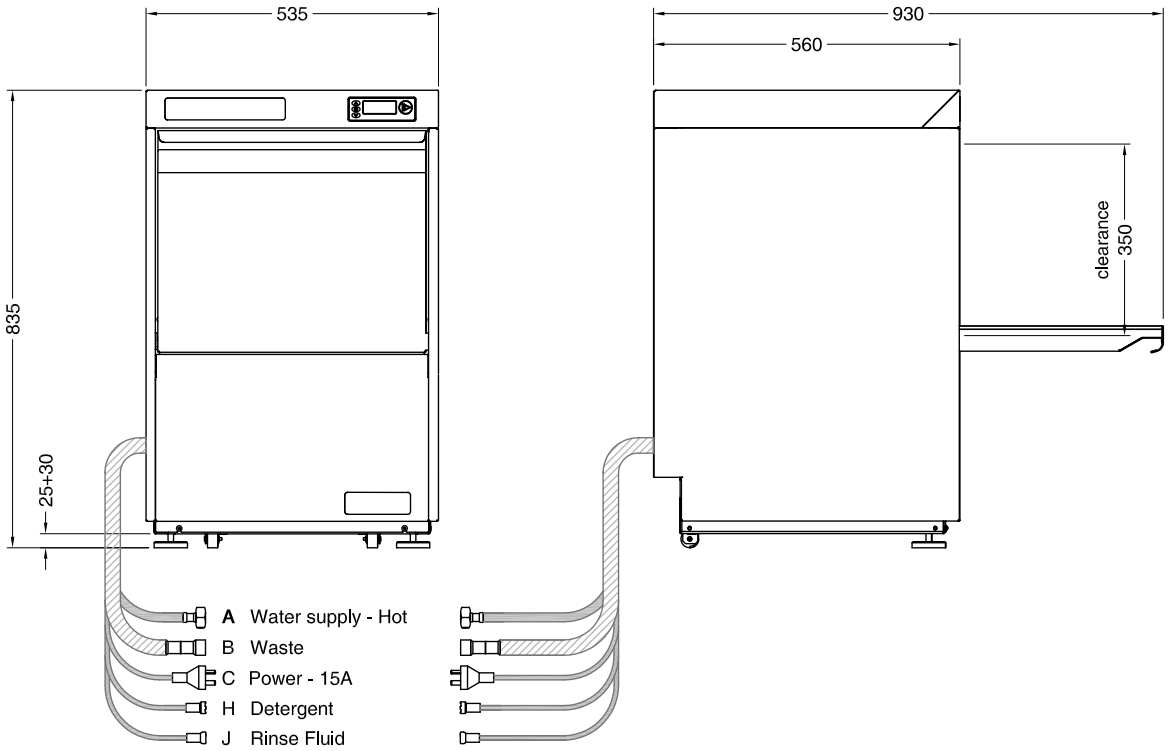
Rinse Fluid
- Insert hose into container of commercial dishwasher rinse fluid
- Adjust rinse fluid dosing and prime rinse aid using the keypad (refer to page 7)
- Use good quality chemicals and regularly check containers

Operation
- Run several cycles, ensure that operator has read and understands instructions

Troubleshooting Installation
- If machine doesn't fill after switching on power, check & ensure that hot water supply tap is open and water supply pressure is not below specification.

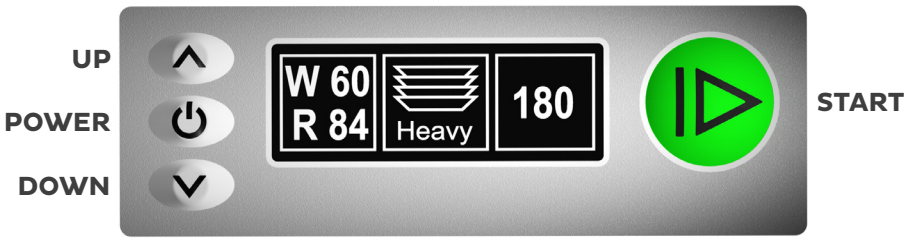
GL Installation Diagram

GL-S INST 04-08-14 3B



All dimensions in millimeters

GL Operating Instructions



START
- Turn on at wall
- Ensure the Wash Filter (1) is in place
- Ensure the Scrap tray (2) and Filter basket (3) are in place and shut door
- Press Power button for 3 seconds to turn machine on and begin the fill cycle

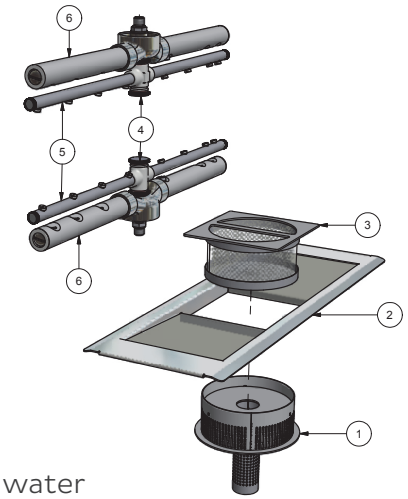
OPERATION
- Select cycle using Up/Down buttons (use the Heavy cycle whenever possible)
- Press Start button (once this is Green or Orange) to begin washing
- Timer counts down to 00 then resets after door is opened

START BUTTON COLOURS

White = machine is filling
Red = cycle is running
Green = rinse water is up to temperature
Purple = door is open
Orange = machine is heating
Blue = power saving mode

NOTE: The machine may be started while Orange light is on and while rinse water is being heated and the timer will pause at 22 seconds until rinse water is up to 83 degrees

SHUT DOWN – EVERY NIGHT
- Select Drain cycle via Up or Down buttons and press Start button
- When Drain cycle is finished after 100 seconds, remove and rinse filter basket (3) and Scrap tray (2) before replacing back in machine



CLEANING – AT LEAST ONCE A WEEK
- Remove, rinse and replace:
- Wash filter 1
- Scrap tray 2
- Filter basket 3
- Thumbscrews 4
- Rinse Arms 5
- Wash Arm 6
- Inspect and clear all jets in the wash and rinse arms

SUGGESTED BEST PRACTICE
- Pre-rinse Scrape and/or rinse plates and glasses in cool water
- Chemical Use good quality non foaming commercial detergent and drying agent Do not use domestic detergent which will cause the machine to foam

User Programming

The **User Settings** menu is accessed by pressing the UP and DOWN keys simultaneously for 5 seconds, the screen should then change to:

Press the POWER button to scroll between settings.
Press the UP and DOWN keys to change a specific setting,
Press the START button to return to the operator screen.

The programming options are specified in the table below:

User Settings	Factory Setting	Selection
Power Save	ON	ON/OFF
Detergent Prime	OFF	ON/OFF
F-Detergent Injection Time	40	0 - 180 secs
W-Detergent Injection Time	15	1 - 30
RInse Aid Prime	OFF	ON/OFF
W-Rinse Aid Time	12	1 - 30
Display Contrast	27	10 - 40

Power Save function reduces the rinse temperature setting by 10°C when the machine is idle for 5 minutes or more. The temperature settings return to the set value when door is opened or START/STOP key is pressed.

Detergent Prime function allows manual operation of the detergent pump to fill the detergent hose with chemicals. Press UP key to switch the detergent pump on, DOWN key to switch the pump off. If the detergent pump is turned on and left running, it will stop automatically after 1 minute of operation.

F-Detergent Time controls the operation time of the detergent pump during the fill of the wash tank. The factory settings for passthrough models – 80 seconds.

W-Detergent Time sets the injection time of the detergent pump at the beginning of each wash cycle. Ex-factory setting is 15 seconds as board default.

Rinse Aid Prime function allows manual operation of the rinse aid pump to fill the rinse aid hose with chemicals. Press UP key to switch the rinse aid pump on, DOWN key to switch the pump off. If the rinse aid pump is turned on and left running, it will stop automatically after 1 minute of operation.

W-Rinse Aid Time controls the injection time of the rinse aid peristaltic pump. The rinse aid pump is set to operate at the beginning of each wash cycle. Ex-factory setting is 12 seconds as board default.

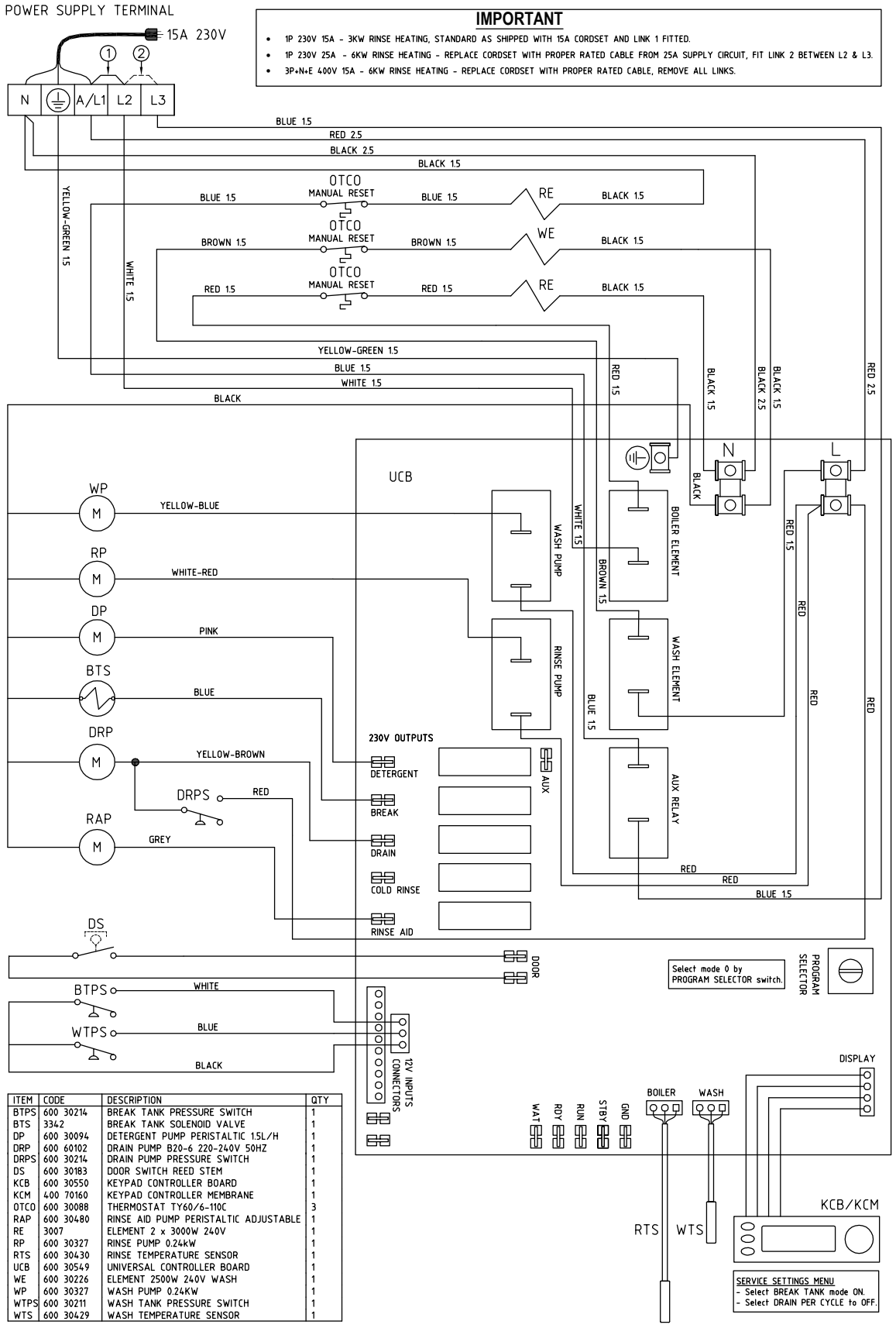
Troubleshooting

If an error message appears on the control display first try turning the machine OFF for 30 seconds and then back ON. If the error message remains call for service.

Issue	Resolution
Not filling	Check water supply is on and door is closed
Cycle does not start	Check door is closed
Wash too long	Check water supply temperature - wash stops at 22 seconds if rinse is still heating
Foaming Wash	Excessive use of rinse fluid and/or low wash temperature can cause foaming
Poor Results	Read and carefully follow the machine installation, operating and care procedures
	All of the following is actually in the instructions on previous pages of the manual
	Pre-scrap and pre-rinse washware
	Do not overload dishracks - avoid overlap of plates, wash cutlery unsorted, handles up
	Use quality low foam detergent and rinse fluid - check containers and adjustment
	Use heavy cycle - baked on soil requires pre-scraping and/or pre-soaking
	Remove and check wash & rinse arms & jets are clean and rotating freely
	If plates are not pre-rinsed wash water may need changing regularly
	Check wash and rinse temperatures
	Remove rack when cycle ends and leave on the bench a few minutes for drying

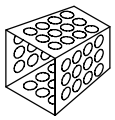
GL 7(S) Wiring Diagram

030318 07/04/17 1 F

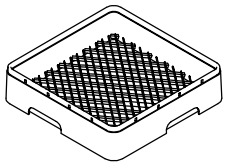


ITEM	CODE	DESCRIPTION	QTY
BTPS	600 30214	BREAK TANK PRESSURE SWITCH	1
BTS	3342	BREAK TANK SOLENOID VALVE	1
DP	600 30094	DETERGENT PUMP PERISTALTIC 1.5L/H	1
DRP	600 60102	DRAIN PUMP B20-6 220-240V 50HZ	1
DRPS	600 30214	DRAIN PUMP PRESSURE SWITCH	1
DS	600 30183	DOOR SWITCH REED STEM	1
KCB	600 30550	KEYPAD CONTROLLER BOARD	1
KCM	400 70160	KEYPAD CONTROLLER MEMBRANE	1
OTCO	600 30088	THERMOSTAT TY60/6-110C	3
RAP	600 30480	RINSE AID PUMP PERISTALTIC ADJUSTABLE	1
RE	3007	ELEMENT 2 x 3000W 240V	1
RP	600 30327	RINSE PUMP 0.24kW	1
RTS	600 30430	RINSE TEMPERATURE SENSOR	1
UCB	600 30549	UNIVERSAL CONTROLLER BOARD	1
WE	600 30226	ELEMENT 2500W 240V WASH	1
WP	600 30327	WASH PUMP 0.24KW	1
WTPS	600 30211	WASH TANK PRESSURE SWITCH	1
WTS	600 30429	WASH TEMPERATURE SENSOR	1

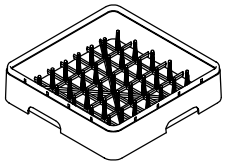
Accessories



C660503
CUTLERY CONTAINER G



600 70080
450 mm PLASTIC CUPRACK



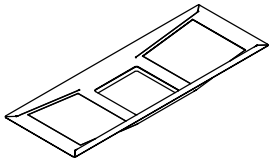
600 70081
450mm PLASTIC DISHRACK

600 60080
2m HOSE ANGLE END

C440201
RUBBER FOOT D.60 X 10

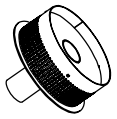
ELECTRICAL WIRING DIAGRAM (UNDER FRONT COVER)

OPERATOR MANUAL



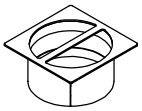
213 10050
SCRAP TRAY ASSEMBLY

CHECK IN MACHINE



212 10004
WASH FILTER ASSEMBLY

CHECK IN MACHINE



213 10046
WASTE BASKET ASSEMBLY

CHECK IN MACHINE

Notes

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