



#### 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.

#### CONTENTS

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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# Service0800 782 754Parts09 829 0930



Manufactured in New Zealand by Washtech Ltd. 414 Rosebank Road, Avondale, Auckland 1026. PO BOX 90548, Auckland

## **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

## **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 Less than 20°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

#### Power

• 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

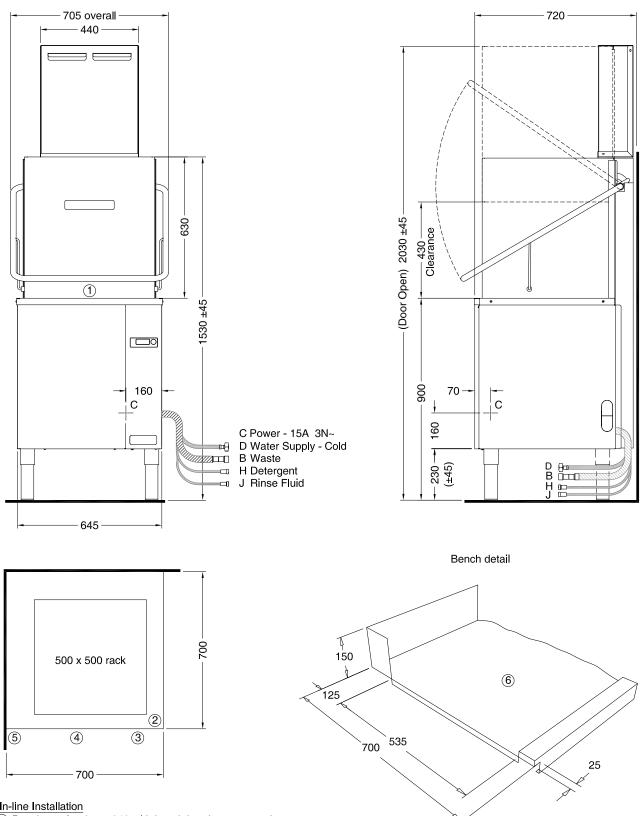
#### Operation

• 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, water supply pressure is not below specification.

### **M2C Installation Diagram**



- In-line Installation
- 1 Bench gap is 595 or 640 with bench brackets removed **Corner Installation**
- (2) wall to front inside corner of wash tank 700
- (3) machine must face left for access to controls
- $(\overline{4})$  allow 300 clearance beneath bench to front for service access
- $(\overline{\mathbf{5}})$  splashback return no higher than 150
- (6) left side is mirror image

## **M2C Operating Instructions**



#### START

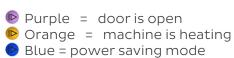
- Turn on at wall
- Ensure the Scrap tray (1) is in place
- Ensure the Upstand (2) is in place and shut door
- Press Power button for 3 seconds to turn machine on and begin the fill cycle

#### 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
  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

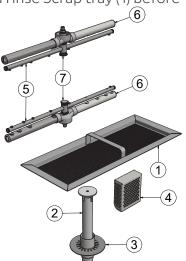
- Select Drain cycle via Up or Down buttons
- Remove drain Upstand (2) and shut door
- When Drain cycle is finished after 100 seconds, remove and rinse Scrap tray (1) before replacing back in machine along with Upstand (2) (6)

#### CLEANING – AT LEAST ONCE A WEEK

- Remove, rinse and replace:
- Scrap Tray 1 2
- Upstand
- Drain filter З 4
- Wash Pump Filter
- Rinse Arm 5 6
- Wash Arm
- Thumbscrews 7
- 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.

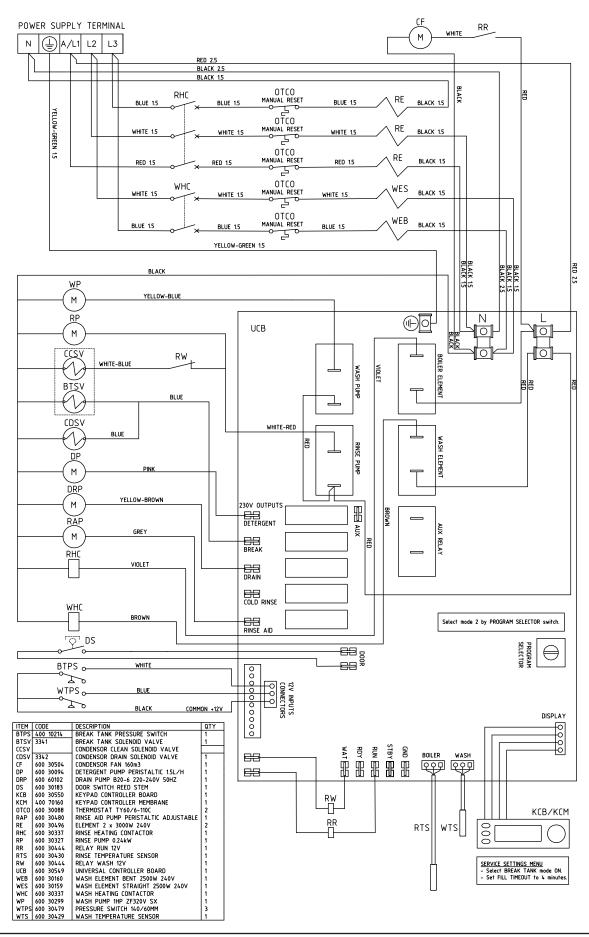
# Troubleshooting

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.

<b>Issue</b> Error 7	<b>Resolution</b> Fill failure - check drain upstand is fitted & water supply is turned on and good flow rate.
Error 8	Drain failure – check drain upstand is removed & drain hose is not kinked or blocked
Not Filling	Check water supply is on and door is closed
Refills During Wash	Check drain upstand is fitted
Cycle Does Not Start	Check door is closed
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 this 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 arms rotate 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 bench a few minutes for drying

### M2-4 & Condensor Wiring Diagram

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### Accessories

	600 70029	QTY
	CUPRACK 500mm OPEN	1
	600 70028 DISHRACK 500mm 9 x 9 DIVISION	2
	C660503 CUTLERY CONTAINER G	2
	600 90023 ASSY SL/M1/M2 LEG (INOX 50x240xM12)	4
	ELECTRICAL WIRING DIAGRAM $\begin{pmatrix} UNDER \\ FRONT \\ COVER \end{pmatrix}$	1
	OPERATOR MANUAL	1
	400 10145 DRAIN UPSTAND	1
A REAL PROVIDENCE OF THE PROVI	328 10032 DRAIN FILTER ASSEMBLY	1
	328 10003 SCRAP TRAY ASSEMBLY	1
	328 12018 WASH PUMP FILTER ASSEMBLY	1
0	600 60080 2M S/S HOSE	1
	328 10010 M2 RACKSLIDE ASSEMBLY	1

### Parts

### Description

Wash Inlet Filter

Wash Spindle Nut

<b>Controls &amp; Indicators</b> Digital Temperature Sensor 500mm Digital Temperature Sensor 1000mm Door Switch Electronic Controller Kit LCD Board with Spacers Kit Pressure Switch Break Tank Pressure Switch Wash Tank	Part No 600 30429 600 30430 600 30183 KIT0440067 KIT0440069 400 10214 600 30479
Heating Components Over Temperature Thermostat Rinse Element 2 x 3KW (from s/n 144591) Rinse Element 2 x 3KW (prior to 144591) Wash Element 2.5KW straight Wash Element 2.5KW bent	600 30088 600 30496 3007 600 30159 600 30160
<b>Hoses</b> Hose Drain Pump 2.5m Hose Drain Pump Inlet Pressure Switch Hose Rinse Hose Wash Pump Inlet Hose Wash Pump Outlet Hose	600 60105 600 90074 3067 600 60073 1262 6195
Pumps & Solenoids Condenser Fan Detergent Pump Detergent Squeeze Tube Drain Pump Rinse Aid Pump Rinse Aid Squeeze Tube Rinse Pump CRC-R-DX Solenoid Valve 1 way Solenoid Valve 2 ways Wash Pump	600 30504 600 30094 600 30134 600 60102 600 30480 600 30119 600 30508 3342 3341 600 30299
Wash Tank Components Drain Filter Drain Upstand Rinse Arm End Plug Rinse Jet Machined Scrap Tray Wash Arm End Screw Wash Jet Machined Wash/Rinse Arm Bush	328 10032 400 10145 400 30200 400 30087 328 10003 600 80072 400 30088 C190624

328 12018

400 30074

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