# AL8C

## PASSTHROUGH WAREWASHER C/W HEAT RECOVERY UNIT OPERATOR MANUAL





#### **General Warnings**



Non-compliance with warnings or failure to follow the instructions in this manual can result in loss of life, severe personal injury and / or serious damage to property.

Before installation, commissioning and / or repair of the machine you must carefully read the safety instructions and warnings and all warning labels attached to the machine.

Hazards can include high surface temperatures, hot water, caustic detergent, sharp edges including broken glass and knives left in the wash chamber, and dangerous electrical voltages.

All service work must be carried out by qualified personnel only who ensure compliance with all local codes and standards including AS/NZS 3500.1.

The electrical supply must be turned off at the wall before accessing the machine for servicing. All electrical terminals must be covered at all times to prevent access to the terminal. Appropriate electrical tests must be carried out after any and all service repairs.

#### **Important Information**



Failure to comply even partially with the instructions given in this manual will invalidate the product warranty and relieve the manufacturer of any responsibility. This includes failure to supply the machine with good quality water at suitable pressure as specified.

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

This machine is intended for commercial use only. It is designed for the cleaning of fresh food waste from cutlery, crockery, glassware, containers and food preparation equipment. Consult the manufacturer regarding suitability for other applications.

No part of the machine is designed to be stepped upon. It is not a waste disposal unit.

It is essential that operating procedures are followed including adequate prerinsing or scraping loose soil or waste from washware before it is placed in the machine, and regular cleaning and maintenance of the machine.

The information contained in this document is checked, reviewed and updated regularly to ensure that it is accurate and relevant to the model described. However discrepancies and errors can occur. We welcome your feedback.

This document subject to change without prior notice.

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## **Safety Instructions**

#### **Installation**

- Use qualified, skilled personnel.
- Follow installation instructions.
- · Connect to correct voltage and supply current, and check that the phase rotation is correct.
- 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.
- No part of this appliance is 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.

#### Warnings



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.

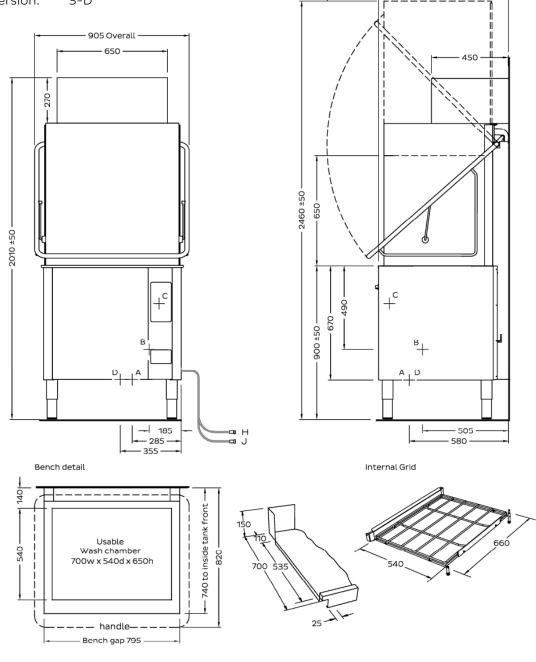
Installation and servicing must be carried out by a suitably qualified person in compliance with all local codes and standards including AS/NZS 3500.1.

# **Installation Diagram**

#### **AL8C Installation Diagram**

Part #: WAL80021Date: 24/02/2019

• Version: 3-D



- 300

760

#### Services

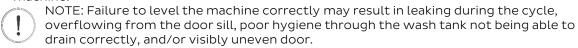
Hot water 65°C 200-350 kPa В Waste - tank drainage point 1.5" BSP 40mm Electrical connection 400-415V, 50Hz, 3P+N+E 25A С 200-350 kPa D Cold water 20°C 3/4" Detergent Inlet Tube Rinse Fluid Inlet Tube

Note: Isolating switch must be within 1m of, and not directly behind the machine. Isolating water valve must be readily accessible

## **Installation Instructions**

#### **Machine Positioning**

- Unpack machine, check for damage and complete delivery.
- Install machine on sound waterproof self-draining floor and use adjustable feet to level machine



 Allow room for detergent to one side of machine or in adjacent cupboard. 20 litre container requires approximately W 250mm x D 350mm x H 450 mm, but smaller containers are available from many suppliers.

#### Ventilation

• The AL8C includes an integrated heat recovery unit in the top of the machine which captures and removes sufficient steam to enable it to be installed without a kitchen exhaust hood, subject to the area having an outside air supply greater than 5L/s/square meter.



NOTE: The heat recovery system also requires the vents on the hood of the machine to be kept well clear of obstructions – do not to use the top of the machine for storage, and do not close the doors to the washroom if this is required as part of the minimum background ventilation. Staff must also be trained around the correct fitting of curtains.

#### Inlet Water Operation - Cold

Incoming water should be within the following standard requirements:

- Temperature: < 25°C.
- Connection: 20 mm (3/4" BSP) male flexible hose supplied.
- NOTE: Flush supply line before connection. Poor quality supply or excessive water hardness may affect performance or damage machine filtration and/or softening is recommended.
- Flow rate: minimum 10 litres per minute.
- Pressure: between 200 and 350 kPa.



NOTE: This machine is equipped with a rinse booster pump as standard and does not rely on incoming water pressure to drive the rinse cycle.

NOTE: If above 350kPa fit pressure limiter valve (LPV). Do not use small diameter plastic supply lines.

- Consumption: Approximately 2.6 litres per cycle.
- Backflow prevention: Atmospheric Vacuum Breaker (AVB) fitted standard.
- Watermark Certification #08603.

#### Inlet Water Fill - Hot

Incoming water should be within the following standard requirements:

• Temperature: 65°C.



NOTE: Excessively high temperatures may damage the solenoid which can result in flooding should this component fail. High temperature solenoids are available and can be retrofitted if necessary.

• Connection: 20 mm (3/4" BSP) male - flexible hose supplied.



NOTE: Flush supply line before connection. Poor quality supply or excessive water hardness may affect performance or damage machine – filtration and/or softening is recommended.

- Flow rate: minimum 20 litres per minute.
- Pressure: between 200 and 350 kPa.

NOTE: If above 350kPa fit pressure limiter valve (LPV). Do not use small diameter plastic supply lines.

- Backflow prevention: Atmospheric Vacuum Breaker (AVB) fitted standard.
- Watermark Certification #08603.

## **Installation Instructions**

#### **Water Quality Requirements**

The incoming water should also be within the following parameters:

Hardness	ppm		рН			
min	20		7			
max	100		8			
lons	Cl-	$SO_4$	Fe	Mn	Cu	$Cl_2$
Max mg/L	100	400	0.1	0.5	0.05	0.1



NOTE: Levels above or below the stated requirements can be expected to increase component wear and reduce the expected useful life of the dishwasher. If in doubt, it is best to consult a water specialist and have the incoming water professionally tested and treated if necessary.

#### **Power**

• Electrical supply required is 3p+N+E, 415V 50Hz 25A per phase via switched outlet adjacent to machine.



NOTE: 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.

#### Chemical

- This dishwasher is supplied with Detergent and Rinse Fluid injector pumps.
- To connect to chemicals, insert pump inlet hose into containers of commercial low foam detergent and rinse fluid.

NOTE: Externally adjustable chemical pumps are fitted and pre-set at an average level, these need to be calibrated on site according to the chemical being used and site specific conditions such as the water quality and how the machine is being used. Failure to do so may result in excessive dosing which can result in foaming and overflowing, or insufficient dosing which can cause inferior wash results and impact components through a build up of grease. If in doubt, contact your chemical company for assistance. NOTE: Commercial detergents can be hazardous – read instructions, store safely and handle with care. Care needs to be taken when changing chemicals, ensuring that the detergent is not accidentally connected to the rinse fluid inlet line. NOTE: If uncertain, please consult a chemical specialist for assistance in selecting the right chemicals and calibrating machine settings to suit this along with your unique site

#### Waste

- 40 mm gravity drain refer point B on the installation diagram run waste directly behind the machine or through open base.
- An S&P trap will need to be fitted at the drain waste refer point B on the installation diagram.
- With a standard S&P trap the drain connection height will be no less than 570mm below the bench height on the model (or no higher than 330mm if installed in standard 900mm high benching).



NOTE: Either copper or PVC may be used for the waste connection – PVC is more resistant to some harsh detergents. Some authorities however suggest that copper is required because the machine rinses at up to 90°C. It is important to note that rinse water mixes with the 65°C wash water before discharge and then flows into the sink trap where the water is further cooled before entering the drainage plumbing. We recommend consulting your local authority to ensure your site remains compliant.

#### **Installation Checklist**

conditions and requirements.

• Complete attached Installation Checklist to ensure machine is installed and running correctly, and operator is familiar with operating procedures.

# **Installation Checklist**

Check	Notes
DELIVERY	
SUPPLIED COMPLETE?	CHECK THERE HAS NOT BEEN ANY TRANSIT DAMAGE
POSITION	
LEVEL AND STABLE?	ON SOUND, WATERPROOF, SELF-DRAINING FLOOR
WATER	
ISOLATOR VALVE FITTED?	ACCESSIBLE, ALL FITTINGS SOUND, AND NO LEAKS
TEMPERATURE CORRECT (65°C)?	HIGH TEMP SOLENOID IF ABOVE RANGE
PRESSURE CORRECT (200- 350 kPa)?	LIMITER FITTED IF ABOVE RANGE
FLOW RATE CORRECT (> 10L per min)?	FLOW RATE ADEQUATE FOR MACHINE OPERATION
QUALITY WITHIN REQUIREMENTS?	FILTER OR SOFTENER IN PLACE IF OUTSIDE REQUIREMENTS
POWER	
ISOLATING SWITCH?	FITTED, FUNCTIONAL AND ACCESSIBLE
CORRECT SUPPLY (3p/25A 415V 50Hz)?	VOLTAGE, CURRENT, CIRCUIT BREAKER ALL CORRECT
WASTE	
40MM CONNECTION (1.5" BSP)?	HARD PLUMBED, NO LEAKS
SUITABLE AIR GAP?	REFER OPERATOR MANUAL.
CHEMICALS	
CHEMICAL NAME	CONTAINER NO LEAKS PRIMED CALIBRATED
OTTET HOME TO THE	CONTAINER NO LEAKS PRIMED CALIBRATED
DETERGENT	CONTAINER NO LEARS PRIMED CALIBRATED
	CONTAINER NO LEARS PRIMED CALIBRATED
DETERGENT	CONTAINER NO LEARS PRIMED CALIBRATED
DETERGENT RINSE FLUID	MULTIPLE CYCLES RUN, NO ISSUES
DETERGENT RINSE FLUID MACHINE OPERATION	
DETERGENT RINSE FLUID MACHINE OPERATION MACHINE RUNNING CORRECTLY?	MULTIPLE CYCLES RUN, NO ISSUES
DETERGENT RINSE FLUID  MACHINE OPERATION  MACHINE RUNNING CORRECTLY?  CHEMICAL DOSAGE CORRECT?	MULTIPLE CYCLES RUN, NO ISSUES  CORRECTLY FLOWING INTO MACHINE, NO FOAMING
DETERGENT RINSE FLUID  MACHINE OPERATION  MACHINE RUNNING CORRECTLY?  CHEMICAL DOSAGE CORRECT?  ALL OPERATIONS CORRECT?  OPERATOR TRAINING	MULTIPLE CYCLES RUN, NO ISSUES  CORRECTLY FLOWING INTO MACHINE, NO FOAMING  FILL LEVEL CORRECT, NO DRAINAGE ISSUES  HE OPERATION MANUAL AND WALL CHART, AND IS AWARE OF THE
DETERGENT RINSE FLUID  MACHINE OPERATION  MACHINE RUNNING CORRECTLY?  CHEMICAL DOSAGE CORRECT?  ALL OPERATIONS CORRECT?  OPERATOR TRAINING  ENSURE THAT THE CUSTOMER HAS BEEN GIVEN T	MULTIPLE CYCLES RUN, NO ISSUES  CORRECTLY FLOWING INTO MACHINE, NO FOAMING  FILL LEVEL CORRECT, NO DRAINAGE ISSUES  HE OPERATION MANUAL AND WALL CHART, AND IS AWARE OF THE
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## **Installation Troubleshooting**

#### Door not closing properly

• Level the dishwasher.

#### Machine not starting or filling

- Ensure water supply to machine is turned on.
- Ensure power supply to machine is turned on.
- Check that the water inlet hose isn't twisted or kinked.

#### Cycle taking too long

• This machine ships with Thermostop enabled, which allows a cycle to be started at any time, even if the rinse water is not up to required temperature. To ensure a hygienic result, the wash cycle continues to run until the rinse temperature reaches the required 83 °C. At this stage washing will stop and the machine will begin rinsing to complete the cycle.

#### Poor wash results

- Check that there are adequate pre-rinse processes in place and staff use longer cycle options for more heavily soiled items.
- Ensure high quality non-foaming commercial dishwasher detergent has been connected at the correct dosage for your site, water quality and application. If uncertain, <u>consult a chemical specialist</u>.
- Check that the wash arm is spinning freely and is not being obstructed.
- Ensure that the wash temperature is between 60°C and 65°C.

#### Chemical residue on items after the cycle

- Check that nothing is obstructing the wash and rinse arms from rotating.
- Check the rinse fluid dosage is not too high. If uncertain, please consult a chemical specialist.
- Check detergent dosage is within the requirements.

#### Dishwasher is foaming

- Ensure there is no other soap being transferred into the machine from the sink.
- Ensure high quality non-foaming commercial dishwasher detergent has been connected at the correct dosage for your site and application. If uncertain, please <u>consult a chemical</u> specialist.
- Allow wash water to heat to at least 60 °C prior to starting the first cycle as some commercial dishwasher chemical will foam at low temperatures.

#### Other equipment in the kitchen has needed filters or has scale

- Due to the high temperatures in dishwashers, scale will build up in the wash tank, on the arms and in the rinse tank. The incoming water should be treated. If uncertain, please <u>consult a</u> water specialist.
- As with the combi-ovens, high chloride levels will do irreversible damage to a number of the components inside a commercial dishwasher. The incoming water should be appropriately treated. If uncertain, please <u>consult a water specialist</u>.

#### Cycle times not suitable for items being washed

• Some sites may require longer or shorter cycles depending on the items being washed and the soil levels. Cycle lengths can be adjusted by a qualified service agent accessing the WI-200 Electronic timer. For adjustment instructions refer to the adjustment section of the service manual for this model or the WI-200 Timer service manual.

## **Operator Use Guide**

#### **START**

- Turn on at wall.
- Ensure the Upstand (2) and Wash Pump Filter (3) are firmly in place.

Selector Switch

• Check the Scrap Trays (1) are in place and shut door.

- Turn the Selector Switch to any Cycle (I, II or III).
- Power Light glows red and machine fills automatically. Power On Light
- Once full, rinse heating starts.

Wash Temp Gauge

OPERATION Rinse Temp Gauge

- Select required Cycle of I (2.5 minutes), II (4.5 minutes) or III (6.5 minutes).
- Load items into the machine and shut door.
- Cycle Light glows green while machine operates.
- When Cycle Light goes out, the cycle is complete.

NOTE: The machine may be started while the rinse water is being heated – the machine will continue to run the wash cycle until the rinse water is up to temperature.

# 55, D 'C

Cycle Light

#### **SHUT DOWN - EVERY NIGHT**

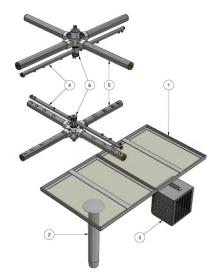
- Turn Cycle Selector to 0 and turn off the power from the wall.
- Remove Scrap Trays (1) and Upstand (2) to drain the Wash Tank.
- Once the Wash Tank is fully drained remove and rinse Wash Pump Filter (3) and Scrap Trays (1) before replacing back into the machine along with the Upstand (2).

#### **CLEANING - AT LEAST ONCE A WEEK**

Remove, rinse and replace when machine has cooled down:

Scrap Trays 1
Drain Upstand 2
Wash Pump Filters 3
Rinse Arms 4
Wash Arms 5
Thumbscrews 6

Inspect and clear all jets in the upper and lower Wash/Rinse Arms using a small object such as a toothpick where necessary to remove any blockages prior to rinsing.



#### SUGGESTED BEST PRACTICE

Pre-rinse Scrape and/or rinse trays, plates & glasses in cool water.

Chemical Use a good quality non foaming commercial detergent and drying agent – do

not use domestic detergents which will cause the wash tank to foam.

## **Operator Troubleshooting**

Issue					Caı	use				
	POOR PRE-SCRAPING	CARRY OVER OF SOAP FROM SINK	OVERLOADING RACKS	MACHINE NEEDS CLEANING	DRAIN UPSTAND NOT PLUGGED IN	WASH/RINSE JETS BLOCKED	WASH/RINSE ARMS NOT ROTATING	DETERGENT DOSAGE LOW/HIGH*	RINSE FLUID DOSAGE LOW/HIGH*	POOR WATER QUALITY**
DISHES NOT CLEAN	•		•	•		•	•	•		
STAINING	•					•	•	•		
FOAMING		•		-						
PROTEIN BLOOM				•			•	•		
DIRTY MACHINE	•			•						
FOOD RESIDUE ON WARE			•	-				•		
FILM/SPOTS ON WARE							•	•		
DETERGENT RESIDUE							•	•		
GREASY FILM/NO FIZZ									•	
HIGH DETERGENT USE				•	•			•		
HIGH RINSE FLUID USE				-					•	
WET WASHWARE			•	-					•	
SCALE BUILD UP IN MACHINE				•						•
FILTERS ON OTHER EQUIPMENT										•

#### ● Likely cause ■ Possible cause

#### IF PROBLEMS PERSIST CONTACT MOFFAT SERVICE ON 1300 264 217

<sup>\*</sup> For issues most likely due to incorrect chemical dosages or other chemical issues, we recommend you consult your chemical supplier and/or a local chemical expert prior to calling in a dishwasher technician.

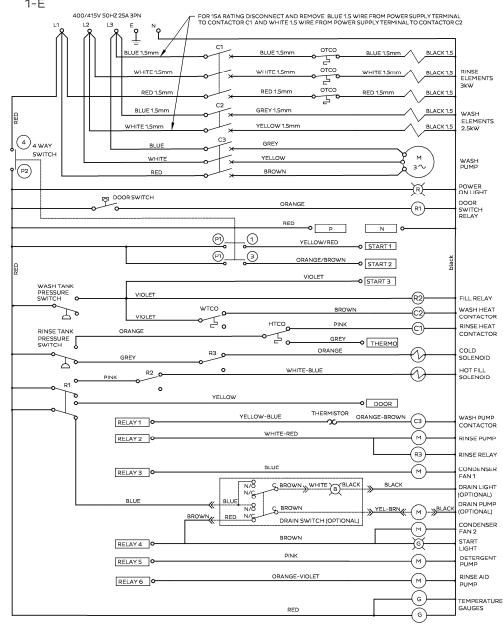
<sup>\*\*</sup> For issues that are likely due to poor water quality (scale building up, filters being required on other kitchen equipment etc.), we recommend you consult a local water specialist prior to calling in a dishwasher technician.

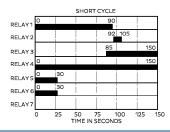
# **Schematic Diagram**

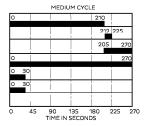
#### AL8C (W) Schematic Diagram

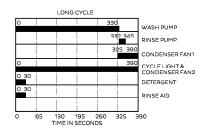
Part #: 010181Date: 02/05/2018

• Version: 1-E









## **Accessories**

#### **AL8C Accessories**

Part #: AL8C ACWDate: 04/12/2017

Version: 1-A



C660508 CUTLERY BASKET CP8 for 500mm



600 70043 CUPRACK 500mm X 600mm



600 70042 DISHRACK 500 x 600mm



C660503 CUTLERY CONTAINER G



600 90154 SS LEG (63D x 225-325mm x M12)



354 11029 RACK ASSEMBLY



K0452 COVER



600 60080 2m HOSE ANGLE END

# **Spare Parts**

#### **DESCRIPTION** PART NO

#### Cabinet & Door

•	Control Panel Sub-Assembly	303 10008
•	Control Panel Label	400 70189
•	Spring Door 27 x 735 x 5	326 30019

#### **Controls & Indicators**

•	Contactor	600 30337
•	Cycle Light	600 30528
•	Door Reed Switch	600 30183
•	Knob 4 Position	600 30524
•	Power Light	600 30529
•	Pressure Switch Wash	600 30479
•	Pressure Switch Break Tank	400 10214
•	Relay 2 Pole 240V	600 30080
•	Relay Base	600 30081
•	Switch 4 Position	600 30269
•	Temperature Gauge	600 30515
•	Terminal Strip 12 Way	3229
•	Timer Electronic	600 30513

#### **Heating Components**

•	Over Temperature Thermostat	600 30088
•	Rinse Element 6 KW	600 30496
•	Rinse Tank Assembly	400 10252
•	Rinse Thermostat	30201
•	Wash Element 2.5 KW	600 30159
•	Wash Thermostat	30201

Hoses	
<ul> <li>Lower &amp; Upper Wash Connection Hose</li> </ul>	6195
<ul> <li>Pressure Switch Hose</li> </ul>	3067
Rinse Hose	600 60073
Rinse Tee SS	600 60230
<ul> <li>Wash Pump Inlet Hose</li> </ul>	C200359
<ul> <li>Wash Pump Outlet Hose</li> </ul>	61941

# **Spare Parts**

### DESCRIPTION PART NO

#### **Pumps and Solenoids**

•	Condenser Fan	600 30503
•	Detergent Pump	600 30526
•	Detergent Squeeze Tube	600 30134
•	Rinse Aid Pump	600 30480
•	Rinse Aid Squeeze Tube	400 30119
•	Rinse Pump	600 30508
•	Solenoid Valve 1 Way	3342
•	Wash Pump	3906

#### **Wash Tank Components**

Trusii ruiik eeiiipeiiei	
<ul> <li>Drain Upstand 305mm</li> </ul>	400 10145
<ul> <li>Locknut Wash Arm</li> </ul>	280409C
<ul> <li>Pressure Bell</li> </ul>	400 90135
<ul> <li>Rack Slide Assembly</li> </ul>	354 11029
<ul> <li>Rinse Arm Assembly</li> </ul>	400 10239
<ul> <li>Rinse Arm Bush</li> </ul>	C190624
<ul> <li>Rinse Arm Cap Screw</li> </ul>	261004C
<ul> <li>Rinse Arm End Plug</li> </ul>	400 30200
<ul> <li>Rinse Arm Spring Retainer Screw</li> </ul>	C450218
<ul> <li>Scrap Tray</li> </ul>	354 12003
<ul> <li>Slip Ring Black Acetal</li> </ul>	400 30191
<ul> <li>Temperature Gauge Probe Clamp</li> </ul>	400 20066
<ul> <li>Wash Arm Assembly</li> </ul>	400 10077
<ul> <li>Wash Arm Bush</li> </ul>	190621C
<ul> <li>Wash Arm End Screw</li> </ul>	600 80072
<ul> <li>Wash Pump Inlet Filter</li> </ul>	352 10026

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