



JWE-DISHWASHER BASIC TRAINING



JWE-620UA

- HIGH TEMP DISHWASHER
- HIGH TEMP USES HOT WATER TO SANITIZE THE DISHES ~ 185°F +
- IT'S MORE ECONOMICAL TO USE HOT WATER TO SANITIZE THAN TO BUY CHEMICAL SANITIZERS
- IT'S MORE ENVIRONMENTALLY FRIENDLY TO
 USE HOT WATER TO SANITIZE
- NSF, ANSI-3, ETL, ENERGY STAR



NSF

BUILD FEATURES

- ALL STAINLESS CONSTRUCTION
 SLOPED TOP
 ENCLOSED DOOR SPRINGS
 BUILT IN BOOSTER HEATER
 ELECTRONIC
- CONTROLS
- •18" DOOR OPENING
- •LOW WATER CONSUMPTION



ELECTRICAL SPECIFICATIONS • REFER TO PAGE 4 IN SERVICE MANUAL

- 3PHASE 208/230V.
- 40AMP CIRCUIT

•BREAKER SWITCH ALSO HAS GFCI PROTECTION









WATER SPECIFICATIONS



<u>SUPPLY</u>

- 3/4 FNPT
- 3~5GPM
- 140°F TEMP (110~167°F RANGE)
- 68.5 PPM WATER HARDNESS OR LESS
 - <u>10 ~ 70PSI WATER PRESSURE</u>

DRAIN

- 1 1/2 MNPT
- GRAVITY FEED
- OVERFLOW PIPE



BASIC UNIT CONSTRUCTION





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BASIC UNIT CONSTRUCTION

REAR VIEW



POWER CORD — Will not be on production model



DOOR PILLARS WITH ENCLOSED DOOR SPRINGS





LOWER WASH TANK ASSEMBLY





The upper and lower rinse arms are threaded. They hold the wash arm in position.

HAND TIGHT ONLY







WASH TANK SEPARATOR (Removable)



WASH TANK HEATER 6.9KW

DRAIN OVERFLOW PIPE REMOVED

WASH TANK THERMISTOR



FLUSH PIPE

FRONT OF UNIT



FRONT PANEL REMOVAL

TO REMOVE FRONT PANEL: 1.REMOVE BOTH 5MM TRUSS HEAD SCREWS 2.SLIGHTLY TILT OUT THE BOTTOM OF THE PANEL 3.PULL DOWN ON PANEL UNTIL IT CLEARS WASH TANK





RINSE PUMP



INSTRUCTION SHEET REMOVED



Center tap switch

(Verify Power coming in and switch accordingly)

CLOSE UP OF VOLTAGE TAP AND TERMINAL BLOCK



Connection for Wash Detergent and Rinse aid 208/230 VAC

(If Used)

CONTROL PANEL LAYOUT









PAUSE BUTTON

PAUSES UNIT DURING NORMAL OPERATION

USED AS START SWITCH WHEN SETTING #11 IS IN THE OFF POSITION

USED TO EXIT AND SAVE DATA IN THE MAINTENANCE MODE

USED TO ENTER THE SELF-CLEANING MODE - "SC"





MODE BUTTON

USED TO TOGGLE UNIT INTO LONG WASH AND RINSE ONLY

USED TO ENTER MAINTENANCE MODE

ENTERS DATA CHANGES IN THE MAINTENANCE MODE

USED TO ENTER THE PREVENTIVE CLEANING MODE





DISPLAY

DISPLAYS WASH TANK TEMP BY DEFAULT

DISPLAY ALL DATA

DISPLAYS ALL ERRORS





ARROWS

USED TO SCROLL THROUGH MENUS

CLEARS ERROR LOG –BOTH PRESSED

USED TO ENTER THE PREVENTATIVE CLEANING MODE – BOTH PRESSED

USED TO ENTER INPUT SIGNALS MODE – BOTH PRESSED





UP ARROW ONLY

USED TO DISPLAY NUMBER OF OPERATIONS

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	\rightarrow	۸	÷ 4	
	READY	(1997) 1997	°C	
	FILL	Wash (5877701)	Rinse 1857(11512)	
100	RINSE -			
	WASH — 📰 🗊	TANDARD MO	DE	
	u	NG		
	-		SE Constantion	
		CLEAN	Balten OFF	
		G	1	
		C	2	
			Sector Sector	

DOWN ARROW ONLY

DISPLAYS OPPOSITE WATER TEMP OF SETTING 12

CLEARS THE INPUT SIGNAL MODE

STOPS ERROR BUZZER







6. ERROR CODES

If the Control Board detects a trouble with the dishwasher, one of the following error codes is displayed with a beep sound. The unit operation in case of error depends on the type of error.

Code	Error	Condition	Operation	Reset	
A1	Wash Tank auto fill error	Water level in Wash Tank does not reach Water Level Sensor after Rinse Pump has run preset number of cycles.	Whole unit stops	ON/OFF Button OFF	
A2	Booster Tank Booster Tank auto fill cycle does not auto fill error complete within 10 min.		Whole unit stops	ON/OFF Button OFF	
A3	Wash Tank water level error	Water level in Wash Tank goes below Water Level Sensor range in standby.	Auto fill cycle starts	Auto fill cycle ends	
o1	Verflow Switch Water level in Booster Tank reaches overflow Normal rror (Water Level level (both Water Level Switch and Overflow Normal Switch ON) Switch remain ON for 1 min). (Heater OFF)		ON/OFF Button OFF		
o2	Overflow Switch error (Water Level Switch OFF) Water Level Switch is OFF, and water level in Booster Tank reaches overflow level (Water Level Switch turns OFF and Overflow Switch remains ON for 1 min).		Normal (Heater OFF)	ON/OFF Button OFF	
H1	Wash Tank	Thermistor senses abnormal temperature (at or above 230°F (110°C)).	Continues		
H2	Thermistor error	Thermistor senses abnormal temperature (at or below -6°F (-21°C)).	(Heater OFF)	Thermistor	
НЗ	Booster Tank	Thermistor senses abnormal temperature (at or above 230°F (110°C)).	Continues	temperature	
H4	Thermistor error	Thermistor senses abnormal temperature (at or below -6°F (-21°C)).	(Heater OFF)		
H5	ROM/RAM error	Control Board ROM/RAM fails.	Whole unit stops	Control Board	
H6	EEPROM error	EEPROM fails.	Whole unit stops	operation	
H7	Phase reversal error	Power supply phase is reversed.	Whole unit stops	Power reset	



5. MAINTENANCE MODE

The maintenance mode is available as a data setting function of the Control Board. The detailed data setting instructions are also specified on the label "DISHWASHER PROGRAMMABLE CONTROLS" provided with the dishwasher.

Always turn off the ON/OFF Button [Power Switch (GFCI) on] before entering the maintenance mode.

- 1) Press and hold the Mode Button on the Operation Panel, and press the ON/OFF Button. The Temperature Display illuminates the setting number 01.
- 2) Press the Up (▲) or Down (▼) Button to display the desired setting number.
- 3) Press the Mode Button to flash the set value for the selected setting number.
- 4) Press the Up (▲) or Down (▼) Button to change the set value within the setting range.
 - Note: Press and hold the Up (\blacktriangle) or Down (\triangledown) Button for quick change.
- 5) Press the Mode Button again to return to the setting number.
- After completing the data setting, press the Standby/Cleaning Button to store the set value. The Temperature Display goes off.

Setting No.	Item		Display	
01	Wash cycle time (standard mode)	1 - 99 seconds		1 - 99
02	Wash cycle time (long mode)	10 - 990 seconds (see No. 09 for multiplier)		
03	Rinse cycle time	5 - 60 seconds		5 - 60
04	Wash temperature	32 - 167°F (0 - 75°C)		32 - 167
05	Rinse temperature	32 - 185°F (0 - 85°C)		32 - 185
07	Auto fill cycles	5 - 30 cycles		5 - 30
08	Wash cycle time unit (standard mode)	1. v 1 second 10: v 10 seconds		1,10
09	Wash cycle time unit (long mode)	1: X 1 second, 10: X 10 seconds		
11	Wash cycle start	ON	Door closing	on
· · ·		OFF	Start switch	oF
12	Water temperature display	ON	Wash temp in standby	on
		OFF	Rinse temp in standby	oF
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15	Water temperature drop for Booster Tank energy saving	0 - 40°F	Adjustable down to set point -40°F	0 - 40
15		0 - 22°C	Adjustable down to set point -22°C	0 - 22
16	Standby time before Booster Tank energy saving	0 - 99 minutes		0 - 99
17	Booster Tank water temperature to stop wash cycle (with No. 14 ON)	180 - 185°F (82 - 85°C)		180 - 185

BASIC UNIT OPERATION

START UP

- 1. PLACE THE VOLTAGE TAP SWITCH IN THE PROPER LOCATION
- 2. PLACE THE BREAKER SWITCH IN THE "ON" POSITION
- 3. PRESS THE "OPERATION" SWITCH ON THE ELECTRONIC CONTROL PANEL











- 1. UNIT WILL CHECK THE PHASE ROTATION. AN ALARM WILL SOUND IF IT IS OFF AND THE DISPLAY WILL READ "H7" UNIT WILL STOP
- 2. THE UNIT WILL RUN AN AUTO FILL CYCLE
- 3. THE ELECTRONIC CONTROLLER WILL DISPLAY A READY LIGHT WHEN COMPLETE
- 4. IF THE VERTICAL SLIDING DOOR IS OPEN THE UNIT WILL NOT FILL. IF THE DOOR IS OPENED DURING THE AUTO FILL CYCLE IT WILL STOP AND RESUME ONCE IT IS CLOSED.

AUTO FILL CYCLE:

The unit energizes the inlet water valve letting water enter the booster tank. When the float switch is closed the water valve will denergize and the rinse pump will energize and spray this water through the rinse spray arms into the wash tank. The number of fill cycles is pre set in the control board. The default number of fill cycles is "28" The "AUTO FILL" light flashes during the fill cycle

During "AUTO FILL" no heaters are energized



ELECTRICAL SEQUENCE



INPUT / OUTPUT

Control Board Input / output Layout

The major inputs and outputs (ex. connectors) are laid out on the Control Board as follows.



XA Connector (8P)

INPUT / OUTPUT DIAGRAM











RINSE CYCLE



BOOSTER HEATER



WASH TANK HEATER





Tech Support hopes that this gives you a good understanding of the basic layout and operation of the Dishwasher JWE units. If you have any questions concerning this or any other technical information please send e-mail to techsupport@hoshizaki.com or call the Technical Support Department at 1-800-233-1940.