Electrolux P/N: 808936623 SERVICE DATA SHEET 7

EW24ID70 - EW24ID80

E24ID74

In Program Selection mode, press pad Auto and Normal simultaneously for at least 4 seconds to access Service Mode. After accessed Service mode (Auto, Heavy and Auto, Heavy and Normal pads blink (blue light) to indicate that Service mode is accessed.

After accessed Service mode:

- 1. Press pad Auto to show the first alarm code.
- Pad Auto blinks to indicate the machine is in Alarm Reading.
- The first alarm code saved is shown in the display. For descriptions of alarm codes, please see Alarm Codes
- 2. Press pad Auto again to show the second alarm code.
- 3. Press pad Auto once more to show the third alarm
- 4. Press pad Auto the fourth time to move to Actuator Test. Press pad repeatedly will sequentially turn on one actuator at a time.
- Pad Auto is turned off. led Heavy blinks to indicate the machine is in Actuator Test.
- The actuator number is shown in the display, see the following table for details.

Number of Actuator pad Heavy Number Actuator in display pressed 4 4 Regeneration Valve Drain Pump 6 Inlet Valve Heater 8 Wash pump 9 9 Dispenser 10 10 Dry Fan

- 5. Press pad Auto when actuator number 10 is activated, the machine will cycle back to Alarm reading and show the first alarm code saved.
- 6. The mode can be exit by pressing the CANCEL button, or waiting 60 seconds after last button pressing.

5 10 15 20 25 30 35 40 45 50 55 60 65 70

Pad Test/Delete Alarm Memory

Normal pads blink):

- 1. Press pad Heavy to start this function.
- All pads and display blinks 5 seconds on 1 second off.
- Buzzer beeps 5 seconds and then off.
- The alarm codes saved in memory are erased.
- 2. The mode can be exit by pressing the CANCEL button, or waiting 60 seconds after last button pressing.

Functional Test cycle

Service Mode

After accessed Service mode (Auto, Heavy and Normal pads blink):

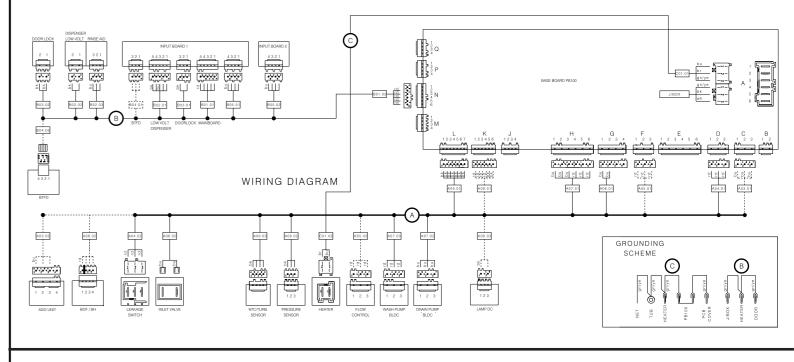
1. Press pad Normal to start the test cycle. The cycle will not start if door is opened.

5 10 15

- Pad Normal blinks all the way through the whole cycle, even if after the cycle is finished

The test cycle runs as a normal wash cycle.

It can be cancelled or run to its end.



Connections included in WireHarnesses

BaseBoard

Wiring Diagram

Wire-color brown blue green/yellow Line-style dotted = Component is currently not in use

(reserved)

dashed - Component is

optional

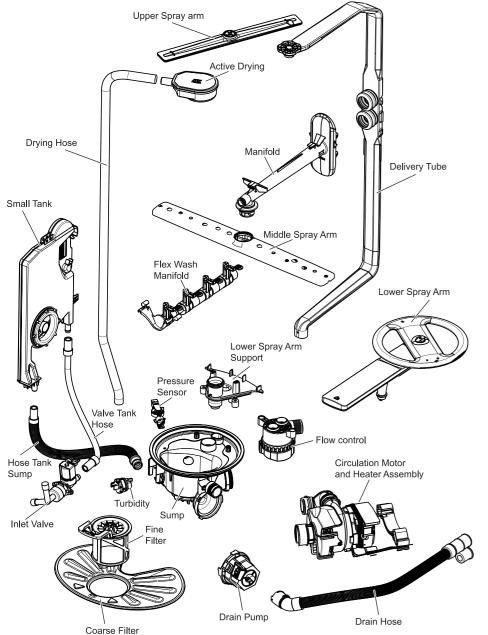
WireHarness Connection WireEnd 01 WireEnd 02 WireEnd 05 BaseBoard DoorOpener BaseBoard eakageSwitch BaseBoard owControl RaseRoard nletValve)rainPump BaseBoard NashPump aseBoard amp (DC) ressureSensor NTC/Turb Sensor BaseBoard RinseAid IserInterface 1 ispenser serInterface 1 oorLock UserInterface 1 serInterface 2

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Circulation Pump									\blacksquare					
Drain Pum														
Heate														
Dispense	r								_					
Eco	PW1 PW2	2 PreWash3 PW4	1	MainWash		ColdPines	1 ColdRinse2	HotRinse	Dry					
Inlet Valve		Flewasiis FW4		IVIdITIVV dSTI		Columnise	1 Columnisez	Hourinse	Diy					
Circulation Pump														
Drain Pump														
Heate	r						1							
Dispense	r													
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Inlet Valve														
Circulation Pump							₩			-				
Heate	r					_	****			-				
Dispense						_								
						_				_				
Normal/Auto	PW		MainWash		1	HotF	Rinse				Dry			
Inlet Valve														
Circulation Pump										Normal Cv	cle (with liat	nt soil)		
Drain Pump						_								
Heate					_									
Dispense	<u> </u>				_			<u> </u>						
Upper	PW1 PV	V2 MainWash	CR HotF	tinse Dry	-									
Inlet Valve			2 110.1	2.0	H	Cycle	es may differ	in hehaviour f	from nres	entation abov	e due to the de	pendence of turb	idity	
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Fast Inlet Valve	PW Mair	Wash 1 MainWash2	HotRinse					Wash1 PreWash2	4				Line Test	
Circulation Pump							nlet Valve rc. Pump		4				Inlet Valv	
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Tiodio									4				1100	

Minutes

Cycle Selection Options

Exploded View of Wash System



Tub Gasket

The door gasket is pressed into the tub channel

- 1. Press the gasket across the header using
- 2. Press the gasket while stretching around

NOTE: There should be no wrinkles or puckers in the corners.

The detergent and rinse aid dispenser is a one piece component consisting of a molded

The detergent cup has a spring loaded cover

Liquid rinse aid is added to the dispenser up to the fill line indicator. The amount of rinse aid released can be adjusted from 1, being the least amount, to 4, being the greatest amount.

To replace dispenser:

- · shut off electricity to dishwasher,
- · disconnect wiring to the actuator,
- · remove the six screws,
- · remove the dispenser,
- · replace and reinstall screws,

Operation

for an interference fit. To install the gasket:

the corners .

3. Place the gasket end at the bottom and then press the gasket in from the bottom up.

Detergent and Rinse Aid Dispenser

detergent cup and a built-in rinse aid dispenser.

and the rinse aid dispenser has a cover.

- · remove outer door panel assembly,

- · rewire actuator.

Starting a Cycle Open door, select the cycle and options: then press the "START" pad. Close the door and the cycle will begin. **Delay Start** Open door, select the cycle and options; then press the "DELAY" pad. Each press of the

pad will increase the delay time by 1 hour (1 to 24 hours). Press "START" to confirm

Press "START" again and close door to activate

Cancelling a

Open door, select the "CANCEL" pad then close the door. The unit will then drain and end the cycle.

Symptom

Selecting a new cycle or option

Open door, select the desired cycle and options; then press the "START" pad and close the door. The cycle will begin

Locking Controls Open door and hold down the "air dry" pad for 3 seconds. The status window will display and the pads will be unresponsive. To unlock the control hold the "AIR DRY" pad down for 3 seconds until goes out. Normal function will resume.

Alarm Codes/Description

Code family	Description	
i10	Water Tap Closed	l
i20	Draining Problem	
i30	Aqua Control	
i40	Analogue pressure sensor problem	
i50	Washing Motor Problem	
i60	Heating Element Problem	
i70	Thermistor problem	
i80	Auto Door Opener	
i90	Configuration Problem	
iB0	Sensor Problem	
iC0	Communication problem	
iD0	Tacho problem	
iE0	Flow controller problem	
iF0	Water level problem	

AWARNING

Trouble Shooting Tips

Personal Injury Hazard

Remedy

Always disconnect the dishwasher from the electrical power source before adjusting or replacing components.

Check the Following

Dishwasher will not operate when turned on.	 Fuse (blown or tripped). 120 VAC supply wiring connection faulty. Electronic control board defective. No 12 VAC power to control. Motor (inoperative). Door switch (open contacts). Door latch not making contact with door switch. Touch pad circuit defective. No indicator lamps illuminate when START or OPTIONS are pressed. 	 Replace fuse or reset breaker. Repair or replace wire fasteners at dishwasher junction box. Replace control board. Replace control board. Replace motor/impeller assembly. Replace latch assembly. Replace console assembly. Replace console assembly.
Motor hums but will not start or run.	Motor (bad bearings). Motor stuck due to prolonged non-use.	Replace motor assembly. Rotate motor impeller.
Motor trips out on internal thermal overload protector.	Improper voltage. Motor windings shorted. Glass or foreign items in pump.	Check voltage. Replace motor/impeller assembly. Clean and clear blockage.
Dishwasher runs but will not heat.	Heater element (open). Electronic control board defective. Wiring or terminal defective. Hi-Limit thermostat defective.	Replace heater element. Replace control board. Repair or replace. Replace thermostat.
Detergent cover will not latch or open.	Latch mechanism defective. Electronic control board defective. Wiring or terminal defective. Broken spring(s). Defective actuator.	Replace dispenser. Replace control board. Repair or replace. Replace dispenser. Replace dispenser.
Dishwasher will not pump out.	 Drain restricted. Electronic control board defective. Defective drain pump. Blocked impeller. Open windings. Wiring or terminal defective. Defective Drain Valve. 	1. Clear restrictions. 2. Replace control board. 3. Replace pump. 4. Check for blockage, clear. 5. Replace pump assembly. 6. Repair or replace. 7. Repair or replace.
Dishwasher will not fill with water.	1. Water supply turned off. 2. Defective water inlet fill valve. 3. Check fill valve screen for obstructions. 4. Defective float switch. 5. Electronic control board defective. 6. Wiring or terminal defective. 7. Float stuck in "UP" position.	Turn water supply on. Replace water inlet fill valve. Disassemble and clean screen. Repair or replace. Replace control board. Repair or replace. Clean or replace float.
Dishwasher water siphons out.	 Drain hose (high) loop too low. Drain line connected to a floor drain not vented. Drain valve or pump stuck open. 	 Repair to proper 32-inch minimum height. Install air gap at counter top. Repair or replace.
Detergent left in dispenser.	 Detergent allowed to stand too long in dispenser. Dispenser wet when detergent was added. Detergent cover held closed or blocked by large dishes. Improper incoming water temperature to properly dissolve detergent. Spray arm blocked. 	 Instruct customer/user. Instruct customer/user. Instruct customer/user on proper loading of dishes. Incoming water temperature of 120°F is required to properly dissolve dishwashing detergents. Instruct customer/user.

Is water getting into unit.

Note: See "Detergent cover will not latch or open.

Pump Assembly

The circulation pump is driven by a brushless-sensorless AC-motor. When looking into the inlet hose, the impeller rotates by the permanent magnet rotor in the counter-clockwise direction when 3-phase power is applied by the main board electronics. When the motor drives the pump approximately at 2900 rpm, supplying 100% filtered water at a rate of approximately 17 GPM to all three spray arms at once.

Draining is accomplished by using a smaller, separate, 3-phase brushless-sensorless drain pump motor mounted to the sump. The drain pump is connected to the sump directly. Speed is 2800rpm, controlled by the main board electronics.

A rubber check valve flap is inserted at the discharge end of the drain outlet pipe, which is integrated on the sump.

A raised drain hose loop section is routed on the side of the unit to help prevent/limit back flow out of the dishwasher. No additional such loops are required.

The main circulation pump is removed by disconnecting both attached clamps and hoses, disconnecting the wiring harness to the pump assembly and un-strapping the pump out of the rubber mount in the basement. Wire harness connections include 2 earth tabs, motor connector and heater connector.

Product Specifications

Electrical

Rating
Heater Wattage 850
Total Amps (load rated) 13.0
Water Temps controlled ±5°F
To assure success have outer door in place
TempAssure (cycle dependent)
Main Wash: 140°F
Final Wash: 140°F
Hi-TempAssure: 140°F Wash/149°F Final
Rinse
SanitizeAssure: 140°F Wash/156°F Final
Rinse
Hi-Limit Thermostat 200°F (93°C)

Water Supply

Suggested minimum incoming water
temperature 120°F (49°C)
Pressure (PSI) min./max
Connection (GHT)3/4" 11.5NH
Consumption (Normal Cycle)
3.1 - 7.4 U.S. gal., 11.5 - 28.1 liters
Water valve flow rate (U.S. GPM) 0.66
Water recirculation rate (U.S. GPM)
approx. 17 (@2900rpm)
Water fill time104 sec.

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6. Check fill valve repair or replace