Electrolux

SERVICE MANUAL

DISHWASHERS

FOR INTERNAL AND PARTNERS USE ONLY

Dishwashers with electronic control system

SERVICE MODE

- EDW 7100
- EDW 7200
- EDW 7300

Introduction & Purpose

CONTENTS:

- **Electrical appliances must be serviced only by qualified Service Engineers.**
- **Always use proper safety equipment.**
- **Always remove the plug from the power socket before touching internal components.**

Purpose:

To describe all the Service Mode functions for the User Interfaces included on this Service Manual

Document Revisions

Revision	Date	Description	Author
V0.0	05/2019	Document creation	Rui Almeida

Abbreviations, Acronyms and Definitions

RTA	Remaining time adaptation
MCF	Machine Configuration File
NTC	Negative Temperature Coefficient resistor
PB100	New platform for dual BLDC machines (Global hydraulic)
DIVA2	Platform with single BLDC control in separate unit (MCB)
MCB	Motor Control Board (DIVA2)
ADO	Auto Door Opener

User Interface – Modes and Function description

Reset

"Reset" is a special kind of User Operation to stop or deselect a running program. In Dorothea range, when this function is performed, the appliance will be in Startup mode with ECO program and its default option selected.

Reset can be performed in any state except the Startup mode.

Reset is done by pressing the reset key combination for at least 2 seconds or press the specific button dedicated to this function by the custom software.

The Reset key combination or specific Reset key is clearly indicated on the control panel as 'Reset' or 'Cancel'.

User Mode

The full function User Mode includes:

- Water Hardness Setting
- Rinse Aid Level Setting
- End of Cycle Buzzer Setting
- Display on Floor Display Colour Setting
- ADO Setting

According to hardware configuration of the dishwasher and marketing requirement, User Mode in individual models can be a subset of above functions.

The User Mode functions are not described in this Service Manual since they are available on the User Manual.

Service Mode

The full function Service Mode includes:

- Fault Memory Reading
- Actuator Test
- LEDTest
- Functional Test cycle
- Enable/disable Extra Rinse
- Enable/disable Pulse Wash
- LCD brightness setting
- LCD contrast setting

According to hardware configuration of the dishwasher and marketing requirement, Service Mode in individual models can be a subset of above functions.

All the Service Mode functions are described on this user Service Manual.

Service Mode – Function description

Alarm Reading and Actuator Test

After accessed Service mode to get the saved alarms and test actuators.

Details of alarm code displaying are in later Alarm Code section.

LED Test / Delete Alarm Memory

To test the LEDS and erase alarm codes from memory.

Functional Test Cycle

Run a test cycle. It runs as a normal wash cycle. It can be cancelled or run to its end.

Enable/disable Extra Rinse

An additional cold rinse phase can be added to the cycles to improve wash performance. In factory (default) settings, this is disabled.

Use this function to enable or disable the Extra Rinse.

Enable/disable Pulse Wash

Pulse Wash can be disabled from the cycles to improve wash performance. In factory (default) settings, this is enabled.

Use this function to disable or enable Pulse Wash.

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Styling Overview

Location of LEDs and Push Buttons

L1   L2   L3

S0   S1   S2   S3

Reset

Press the On/Off button (S0) for 3 seconds.

EDW 7100

Access Service Mode

The Service Mode can only be accessed after the Reset function has been carried out and the appliance is switched off.

EDW 7100 is a touch key model. After Reset and off/on, press button S1+S3 simultaneously for at least 3 seconds to access Service Mode.

L1, L2 and L3 blink to indicate that Service mode is accessed.

Alarm Reading and Actuator Test

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S1 to show the first alarm code.

   ➢ L1 blinks to indicate the machine is in Alarm Reading.

   ➢ The first alarm code saved is shown by the blinking sequences of Salt and Rinse aid icon. For example, "i43" is shown as Salt icon blinks 4 times + Rinse aid icon blinks 3 times + Salt icon blinks 4 times + Rinse aid icon blinks 3 times… Please see the Alarm Codes document for code description.

2. Press button S1 again to show the second alarm code.

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3. Press button S1 once more to show the third alarm code.

4. Press button S1 the fourth time to move to Actuator Test. Press button S1 repeatedly will sequentially turn on one actuator at a time.

   ➢ L1 is turned off. L2 blinks to indicate the machine is in Actuator Test.

   ➢ The actuator number is shown by the blinking sequences of Salt icon.

5. Press button S1 when actuator number 11 is activated, the machine will cycle back to Alarm reading and show the first alarm code saved.

6. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

Number of S1 Pressed	Actuator Number blinked by Salt icon	Actuator	Comment
4	4	Regeneration Valve	
5	5	Drain Pump	
6	6	Inlet Valve	Off when water level reached
7	7	Heater	On only if water level reached
8	8	Wash Pump	
9	9	Dispenser	
10	10	Auto door opener	
11	11	SprayZone function	

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LED Test / Delete Alarm Memory

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S2 to start this function.

- ➢ All used LEDs/icons blink 5 second on 1 second off.
- ➢ If a buzzer is equipped, it beeps for 5 seconds.
- ➢ The alarm codes saved in memory are erased.

2. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

Functional Test Cycle

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S3 to start the test cycle. The cycle will not start if door is opened.
   - ➢ All LEDs under "MYTIME" are on for the duration of the test cycle.
   - ➢ The test cycle runs as a normal wash cycle. It can be cancelled or run to its end.

EDW 7100

Enable/disable Extra Rinse

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S1+S2 to enter this function.

> ➢ L1 blinks indicating it is in Extra Rinse setting mode.
> ➢ Salt icon shows the current setting of Extra Rinse. Salt icon off for disabled, on for enabled

2. Press button S1 to change the setting
3. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

Enable/disable Pulse Wash

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S2+S3 to enter this function.

> ➢ L2 blinks indicating it is in Pulse Wash setting mode.
> ➢ Salt icon shows the current setting of Pulse Wash. Salt icon off for disabled, on for enabled

2. Press button S2 to change the setting
3. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

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PNC on Display

Not available

Demo mode

Activate demo mode:

press and hold ECO+Auto for 5s. All LEDs/icons blink for 3s

Deactivate demo mode:

Press and hold ECO+Auto for 5s. All LEDs/icons blink for 3s

After demo mode is activated: In every minute, UI shows the Demo mode animation, and blink all LEDs/icons for 3s. Auto-off is disabled if Demo mode is activated. After cancelling a running program, all LEDs/icons blink for 3s. When the dishwasher is powered on, all LEDs/icons blink for 3s after Start-up animation is played

Demo mode animation:

Step 1:

- UI items (ECO icon, Drying icon and Program/Option LEDs):
  Same as Program 3 is selected without option
- Time: 0,5s
- Graphic example:

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Step 2:

- UI items: Same as Program 2 is selected without option
- Time: 0,5s
- Graphic example:

Step 3:

- UI items: Same as Program 1 is selected without option
- Time: 6s
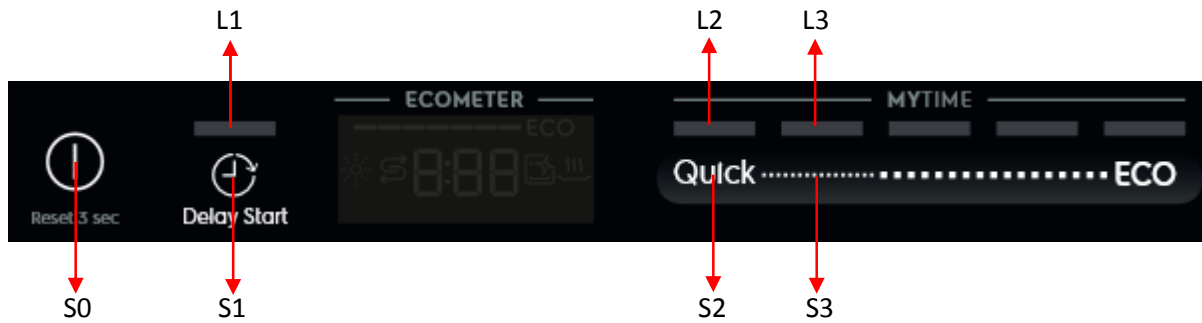- Graphic example:

Step 4:

- Same as Step 2

Step 5:

- Same as Step 1

EDW 7200

Styling Overview

Location of LEDs and Push Buttons

L1   L2   L3

S0   S1   S2   S3

Reset

Press the On/Off button (S0) for 3 seconds.

EDW 7200

Access Service Mode

The Service Mode can only be accessed after the Reset function has been carried out and the appliance is switched off.
EDW 7200 is a touch key model. After Reset and off/on, press button S1+S3 simultaneously for at least 3 seconds to access Service Mode.

L1, L2 and L3 blink to indicate that Service mode is accessed.

Alarm Reading and Actuator Test

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S1 to show the first alarm code.

   ➢ L1 blinks to indicate the machine is in Alarm Reading.

   ➢ The first alarm code saved is shown in the display. Please see the Alarm Codes document for code description.

2. Press button S1 again to show the second alarm code.

3. Press button S1 once more to show the third alarm code.

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4. Press button S1 the fourth time to move to Actuator Test. Press button S1 repeatedly will sequentially turn on one actuator at a time.

   ➢ L1 is turned off. L2 blinks to indicate the machine is in Actuator Test.

   ➢ The actuator number is shown in the display.
5. Press button S1 when actuator number 11 is activated, the machine will cycle back to Alarm reading and show the first alarm code saved.
6. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

Number of S1 Pressed	Actuator Number in Display	Actuator	Comment
4	4	Regeneration Valve	
5	5	Drain Pump	
6	6	Inlet Valve	Off when water level reached
7	7	Heater	On only if water level reached
8	8	Wash Pump	
9	9	Dispenser	
10	10	Auto door opener	
11	11	SprayZone function	

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LED Test / Delete Alarm Memory

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S2 to start this function.
    - ➢ All used LEDs/icons and display (show "8:88") blink 5 second on 1 second off.
    - ➢ If a buzzer is equipped, it beeps for 5 seconds.
    - ➢ The alarm codes saved in memory are erased.
2. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

Functional Test Cycle

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S3 to start the test cycle. The cycle will not start if door is opened.
    - ➢ All LEDs under "MYTIME" are on for the duration of the test cycle.
    - ➢ Display shows the remaining time of test cycle.
    - ➢ The test cycle runs as a normal wash cycle. It can be cancelled or run to its end.

Enable/disable Extra Rinse

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S1+S2 to enter this function.

   ➤ L1 blinks indicating it is in Extra Rinse setting mode.

   ➤ Display shows the current setting of Extra Rinse. "0E" for disabled, "1E" for enabled

2. Press button S1 to change the setting
3. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

Enable/disable Pulse Wash

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S2+S3 to enter this function.

   ➤ L2 blinks indicating it is in Pulse Wash setting mode.

   ➤ Display shows the current setting of Pulse Wash. "0P" for disabled, "1P" for enabled

2. Press button S2 to change the setting
3. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

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PNC on Display

Press and hold the two rightmost keys simultaneously for 3s. The PNC will be shown in the display in 3 steps with 3 digits each step. For example, PNC911443335 is shown as "911" for 3s, then "443" for 3s and "335" for 3s and display is off for 3s, then looping.

Demo mode

Activate demo mode:

   press and hold ECO+Auto for 5s. Display shows "d:On" for 3s

Deactivate demo mode:

   press and hold ECO+Auto for 5s. Display shows "d:OF" for 3s

  After demo mode is activated: In every minute, UI shows the Demo mode animation, and show "d:On" for 3s. Auto-off is disabled if Demo mode is activated. After cancelling a running program, display shows "d:On" for 3s. When the dishwasher is powered on, UI shows "d:On" for 3s after Start-up animation is played

Demo mode animation:

Step 1:

- UI items (Estimate Time, EcoBar, Drying icon, Program Name and Program/Option LEDs):
  Same as Program 5 is selected without option
- Time: 0,5s
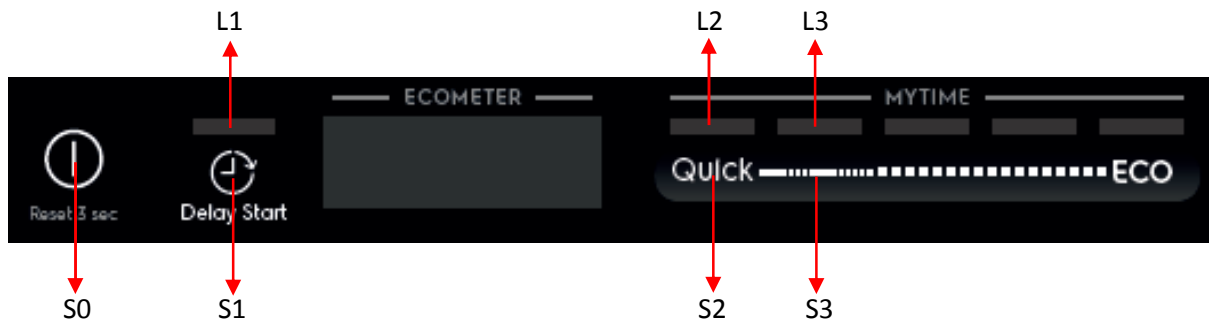- Graphic example:

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Next steps:

Step 2:	Step 3:
• UI items: Same as Program 4 is selected without option • Time: 0,5s	• UI items: Same as Program 3 is selected without option • Time: 0,5s
Step 4: • UI items: Same as Program 2 is selected without option • Time: 0,5s	Step 5: • UI items: Same as Program 1 is selected without option • Time: 6s
Step 6: • Same as Step 4	Step 7: • Same as Step 3
Step 8: • Same as Step 2	Step 9: • Same as Step 1

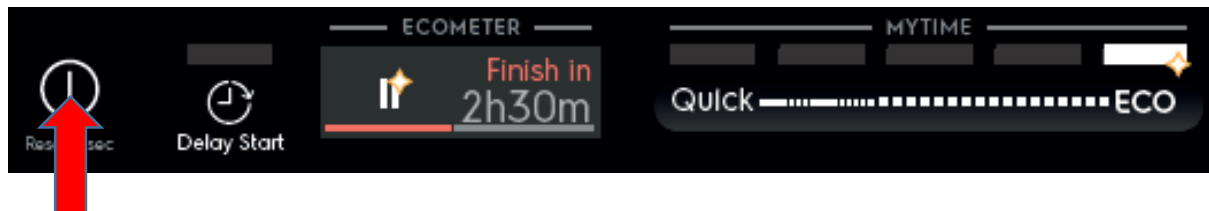# EDW 7300

Styling Overview

Location of LEDs and Push Buttons

Reset

Press the On/Off button (S0) for 3 seconds.

EDW 7300

Access Service Mode

The Service Mode can only be accessed after the Reset function has been carried out and the appliance is switched off.

EDW 7300 is a touch key model. After Reset and off/on, press button S1+S3 simultaneously for at least 3 seconds to access Service Mode.

L1, L2 and L3 blink to indicate that Service mode is accessed.

Alarm Reading and Actuator Test

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S1 to show the first alarm code.
   - ➢ L1 blinks to indicate the machine is in Alarm Reading.
   - ➢ The first alarm code saved is shown in the display. Please see the Alarm Codes document for code description.
2. Press button S1 again to show the second alarm code.
3. Press button S1 once more to show the third alarm code.
4. Press button S1 the fourth time to move to Actuator Test. Press button S1 repeatedly will sequentially turn on one actuator at a time.

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➢ L1 is turned off. L2 blinks to indicate the machine is in Actuator Test.

➢ The actuator number is shown in the display.

5. Press button S1 when actuator number 11 is activated, the machine will cycle back to Alarm reading and show the first alarm code saved.

6. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

Number of S1 Pressed	Actuator Number in Display	Actuator	Comment
4	4	Regeneration Valve	
5	5	Drain Pump	
6	6	Inlet Valve	Off when water level reached
7	7	Heater	On only if water level reached
8	8	Wash Pump	
9	9	Dispenser	
10	10	Auto door opener	
11	11	SprayZone function	

LED Test / Delete Alarm Memory

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S2 to start this function.

➢ All used LEDs blink 5 second on 1 second off.

➢ Display shows chess board pattern.

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> - If a buzzer is equipped, it beeps for 5 seconds.
> - The alarm codes saved in memory are erased.

2. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

Functional Test Cycle

After accessed Service mode (L1, L2 and L3 blinking):

Press button S3 to start the test cycle. The cycle will not start if door is opened.

> - All LEDs under "MYTIME" are on for the duration of the test cycle.
> - Display shows the remaining time of test cycle.
> - The test cycle runs as a normal wash cycle. It can be cancelled or run to its end.

Enable/disable Extra Rinse

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S1+S2 to enter this function.

> - L1 blinks indicating it is in Extra Rinse setting mode.

> ➢ Display shows the current setting of Extra Rinse. "On" for enabled, "Off" for disabled

2. Press button S1 to change the setting

3. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

Enable/disable Pulse Wash

After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S2+S3 to enter this function.

> ➢ L2 blinks indicating it is in Pulse Wash setting mode.

> ➢ Display shows the current setting of Pulse Wash. "On" for enabled, "Off" for disabled

2. Press button S2 to change the setting

3. Switching off the appliance by pressing On/Off button (S0) will exit Service mode.

PNC on Display

Last item in the user settings.

Demo mode

Activate demo mode:

press and hold ECO+Auto for 5s. Display shows "Demo mode" for 3s.

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Deactivate demo mode:

      press and hold ECO+Auto for 5s. Display shows "Demo mode OFF" for 3s

  After demo mode is activated: In every minute, UI shows the Demo mode animation, and show "Demo mode" for 3s. Auto-off is disabled if Demo mode is activated. After cancelling a running program, display shows "Demo mode" for 3s. When the dishwasher is powered on, UI shows "Demo mode" for 3s after Start-up animation is played

Demo mode animation:

Step 1: • UI items (Estimate Time, EcoBar, Drying icon and Program/Option LEDs): Same as Program 5 selected without option • Time: 0,5s	Step 2: • UI items: Same as Program 4 is selected without option • Time: 0,5s
Step 3: • UI items: Same as Program 3 is selected without option • Time: 0,5s	Step 4: • UI items: Same as Program 2 is selected without option • Time: 0,5s
Step 5: • UI items: Same as Program 1 is selected without option • Time: 6s	Step 5: Graphic example:

Step 6:	Step 7:
• Same as Step 4	• Same as Step 3
Step 8:	Step 9:
• Same as Step 2	• Same as Step 1