



Electrolux

SERVICE MANUAL

DISHWASHERS

FOR INTERNAL AND PARTNERS USE ONLY

© ELECTROLUX HOME PRODUCTS

Consumer Service - EMEA

Quality & Continuous Improvement - Technical Support

Dishwashers with electronic control system

SERVICE MODE

- EDW 1600
- EDW 1850
- EDW 1950
- EDW 2200
- EDW 3510
- EDW 4010



EN

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Introduction & Purpose

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Purpose:

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

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



- **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.**

Document Revisions

Revision	Date	Description	Author
V0.0	08/2019	Document creation	Rui Almeida

User interface – Introduction

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

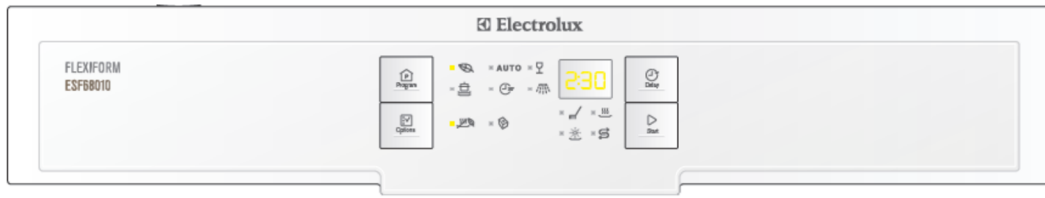
Pulse Wash can be disabled from the cycles to improve wash performance. In factory (default) settings, this is enabled.

Use this function to disable or enable Pulse Wash.

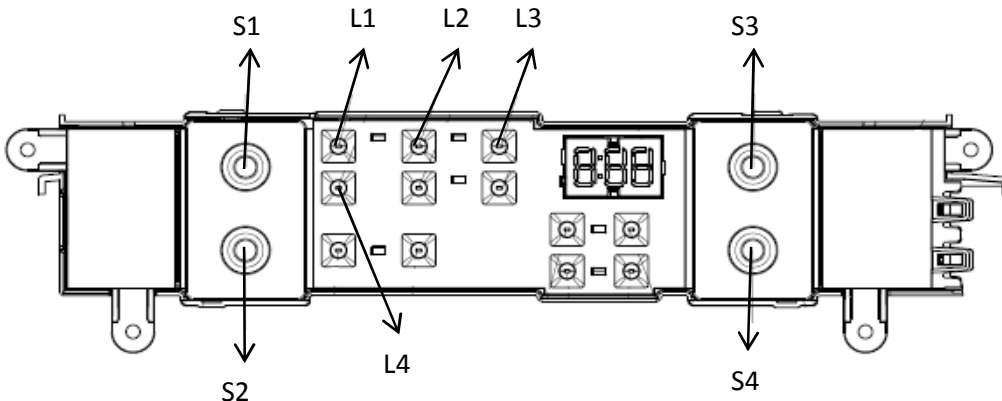
EDW1600

EDW 1600

Styling Overview

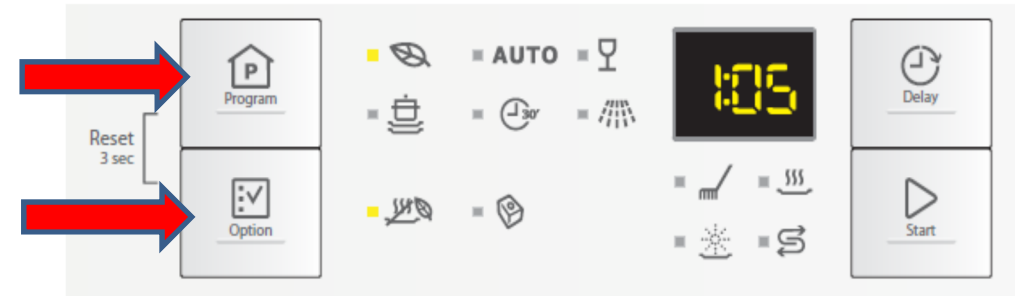


Location of LEDs and Push Buttons



Reset

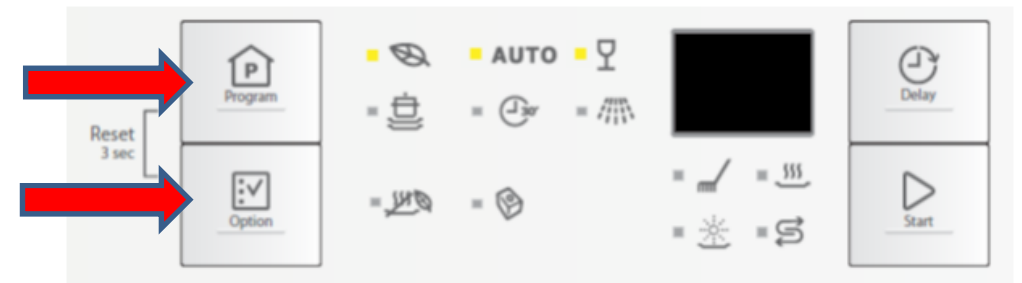
Press buttons S1+S2 simultaneously for at least 2 seconds to perform Reset function.



Access Service Mode

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

Press and hold button S1+S2 simultaneously while turn the appliance on, keep holding the buttons for 4 seconds.



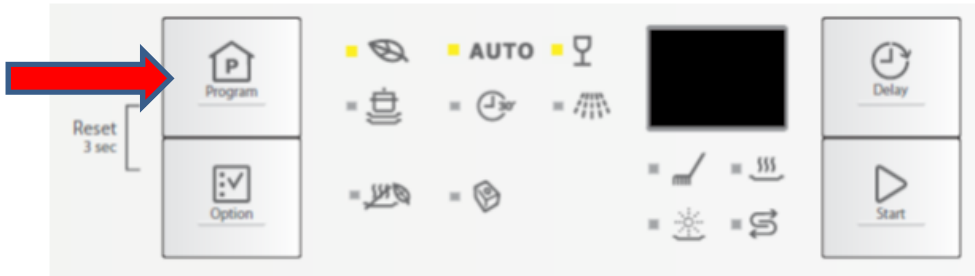
L1, L2 and L3 blink to indicate that Service mode is accessed.

EDW1600

Alarm Reading and Actuator Test

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

- 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 later Alarm Codes section.



- Press button S1 again to show the second alarm code.
- Press button S1 once more to show the third alarm code.
- 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, see the following table for details.

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 opening	

- Press button S1 when actuator number 10 is activated, the machine will cycle back to Alarm reading and show the first alarm code saved.
- Switching off the appliance will exit Service mode.

LED Test / Delete Alarm Memory

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

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

EDW1600

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.
 - L3 blinks 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 show 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 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 show 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 will exit Service mode.

EDW1850

EDW 1850

Styling Overview

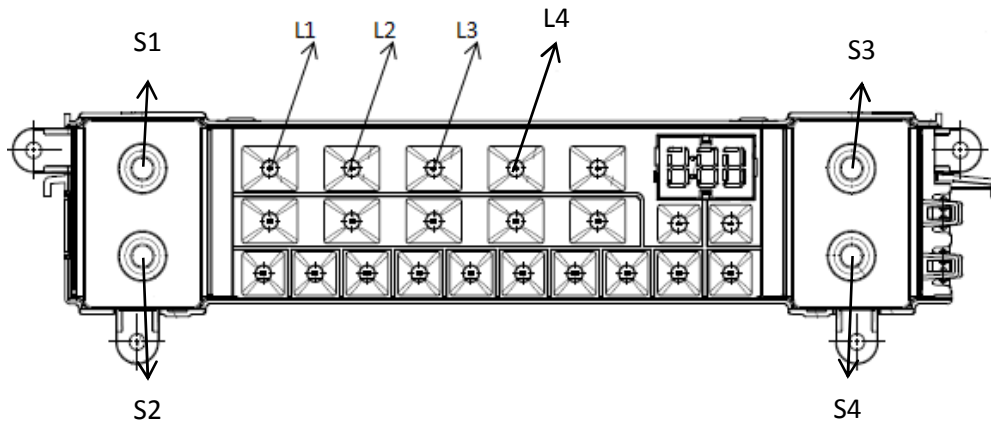


Reset

Press buttons S3+S4 simultaneously for at least 2 seconds to perform Reset function.



Location of LEDs and Push Buttons



Access Service Mode

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

Press and hold button S1+S2 simultaneously while turn the appliance on, keep holding the buttons for 4 seconds.



EDW1850

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):

- 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 later Alarm Codes section.



- Press button S1 again to show the second alarm code.
- Press button S1 once more to show the third alarm code.
- 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, see the following table for details.

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 opening	

- Press button S1 when actuator number 10 is activated, the machine will cycle back to Alarm reading and show the first alarm code saved.
- Switching off the appliance will exit Service mode.

LED Test / Delete Alarm Memory

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

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

EDW1850

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.
 - L3 blinks 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 show 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 will exit Service mode.

Enable/disable Pulse Wash

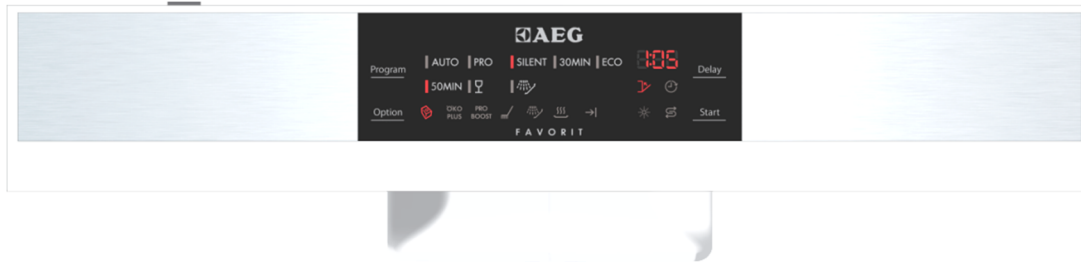
After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S2+S3 to enter this function.
 - L2 blinks indicating it is in Pulse Wash setting mode.
 - Display show 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 will exit Service mode.

EDW1950

EDW 1950

Styling Overview

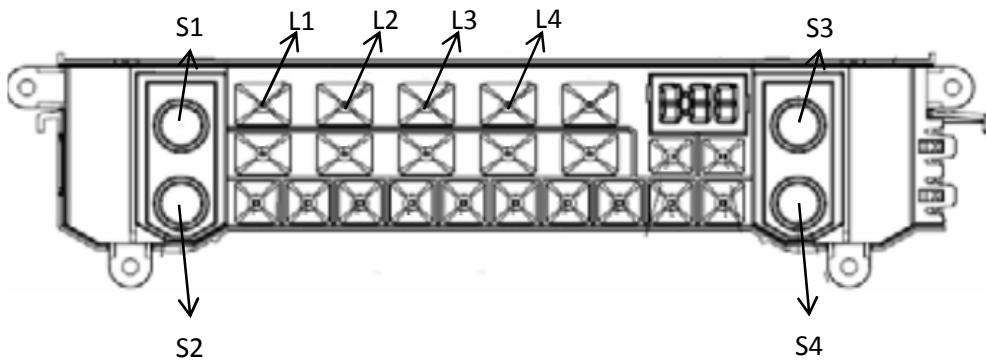


Reset

Press buttons S3+S4 simultaneously for at least 2 seconds to perform Reset function.



Location of LEDs and Push Buttons



Access Service Mode

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

EDW1950 is a touch key model. After Reset and off/on, press button S1+S2 simultaneously for at least 4 seconds to access Service Mode.



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

EDW1950

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 later Alarm Codes section.



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.
 - L1 is turned off. L2 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 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 opening	

5. Press button S1 when actuator number 10 is activated, the machine will cycle back to Alarm reading and show the first alarm code saved.
6. Switching off the appliance will exit Service mode.

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 and display (show "8:88") blinks 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 will exit Service mode.

EDW1950

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.
 - L3 blinks 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 show 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 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 show 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 will exit Service mode.

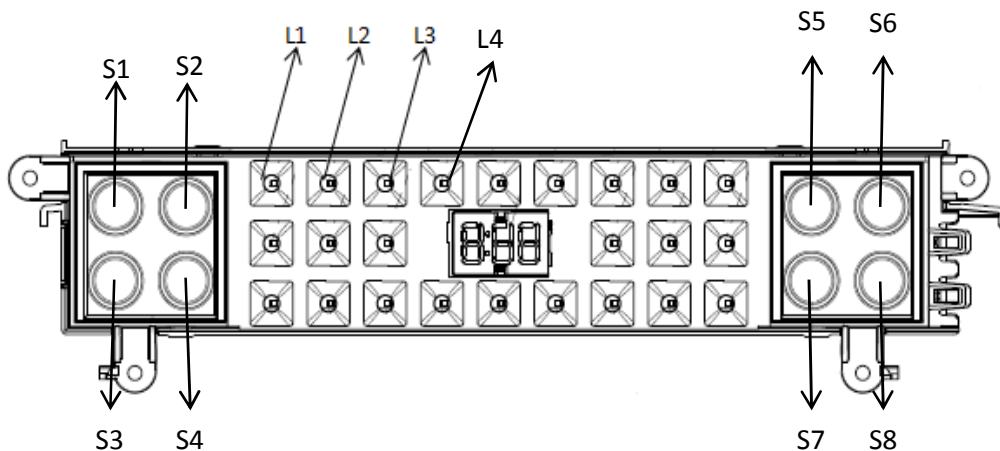
EDW2200

EDW 2200

Styling Overview



Location of LEDs and Push Buttons



Reset

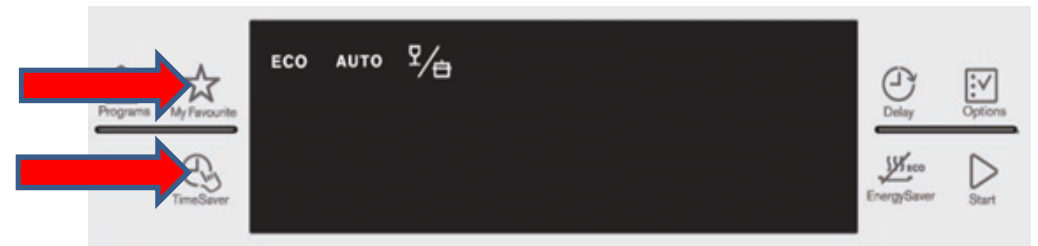
Press the S3 which is dedicated to this function.



Access Service Mode

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

EDW2200 is a touch key model. After Reset an off/on, press button S2+S4 simultaneously for at least 4 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):

- Press button S2 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 later Alarm Codes section.



- Press button S2 again to show the second alarm code.
- Press button S2 once more to show the third alarm code.
- Press button S2 the fourth time to move to Actuator Test. Press button S2 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, see the following table for details.

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 opening	

- Press button S2 when actuator number 10 is activated, the machine will cycle back to Alarm reading and show the first alarm code saved.
- Switching off the appliance will exit Service mode.

LED Test / Delete Alarm Memory

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

- Press button S4 to start this function.
 - All used LEDs and display (show "8:88") blinks 5 second on 1 second off.
 - If a buzzer is equipped, it beeps for 5 seconds.
 - The alarm codes saved in memory are erased.
- Switching off the appliance will exit Service mode.

EDW2200

Functional Test Cycle

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

1. Press button S5 to start the test cycle. The cycle will not start if door is opened.
 - L3 blinks 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 S2+S4 to enter this function.
 - L1 blinks indicating it is in Extra Rinse setting mode.
 - Display show the current setting of Extra Rinse. "0E" for disabled, "1E" for enabled.
2. Press button S2 to change the setting.
3. Switching off the appliance will exit Service mode.

Enable/disable Pulse Wash

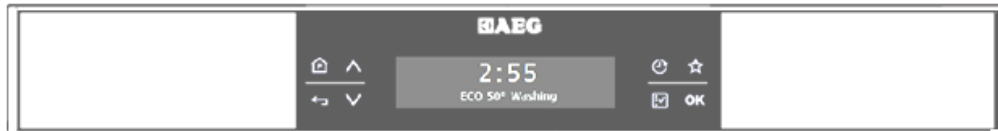
After accessed Service mode (L1, L2 and L3 blinking):

1. Press button S4+S5 to enter this function.
 - L2 blinks indicating it is in Pulse Wash setting mode.
 - Display show the current setting of Pulse Wash. "0P" for disabled, "1P" for enabled
2. Press button S4 to change the setting
3. Switching off the appliance will exit Service mode.

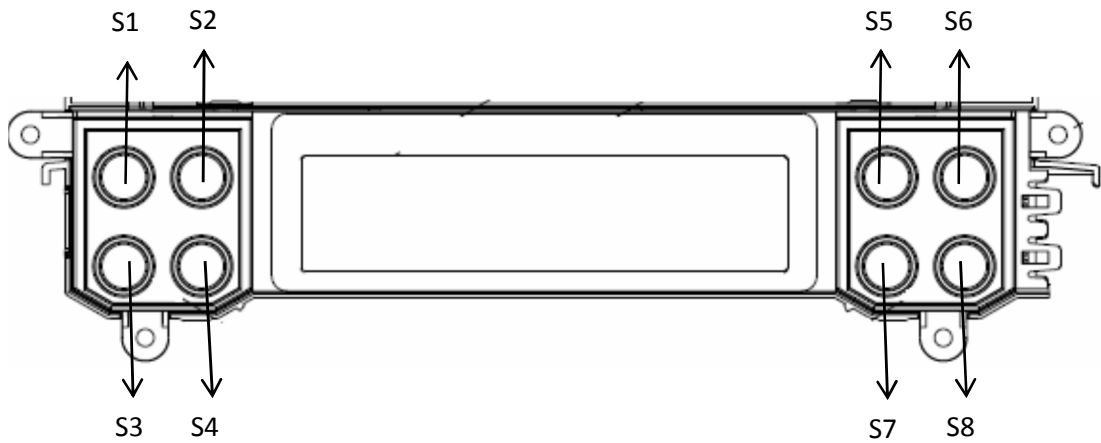
EDW3510

EDW 3510

Styling Overview

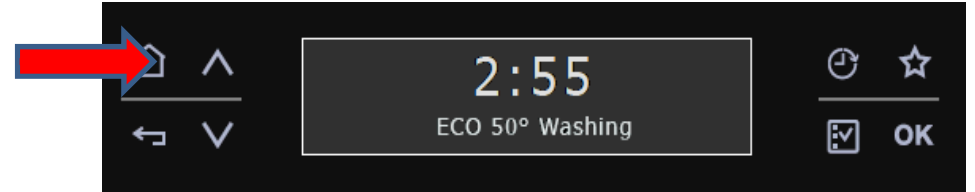


Location of LEDs and Push Buttons



Reset

Press the Program Key for at least 2 seconds, and then follow the instructions on the screen to perform Reset function.



Access Service Mode

EDW3510 is a touch key model. After Reset an off/on, press button S5+S7 simultaneously for at least 4 seconds to access Service Mode.



After accessing Service mode, using the navigation buttons to select the desired service function shown in screen and using "OK" button to enter the selected function, then follow the instruction in the screen to perform the functions.

Follow the instruction in the screen or switching off the appliance to save the new setting and exit Service mode.

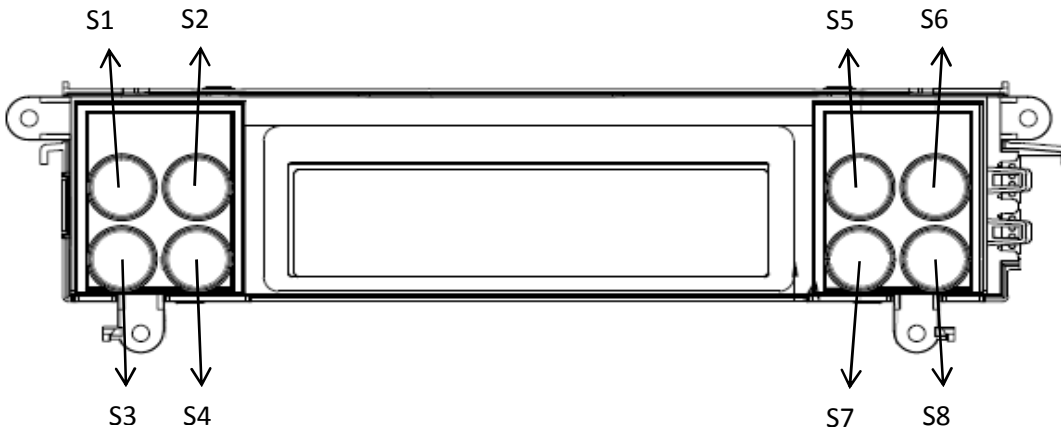
EDW4010

EDW 4010

Styling Overview

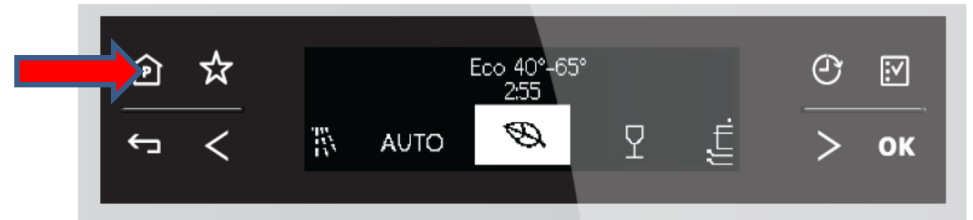


Location of LEDs and Push Buttons



Reset

Press the Program Key for at least 2 seconds, and then follow the instructions on the screen to perform Reset function.



Access Service Mode

EDW4010 is a touch key model. After Reset an off/on, press button S5+S7 simultaneously for at least 4 seconds to access Service Mode.



After accessing Service mode, using the navigation buttons to select the desired service function shown in screen and using "OK" button to enter the selected function, then follow the instruction in the screen to perform the functions.

Follow the instruction in the screen or switching off the appliance to save the new setting and exit Service mode.