



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 503
- EDW 1503
- EDW 1953
- EDW 1103
- EDW 1753
- EDW 4013
- EDW 4033



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.

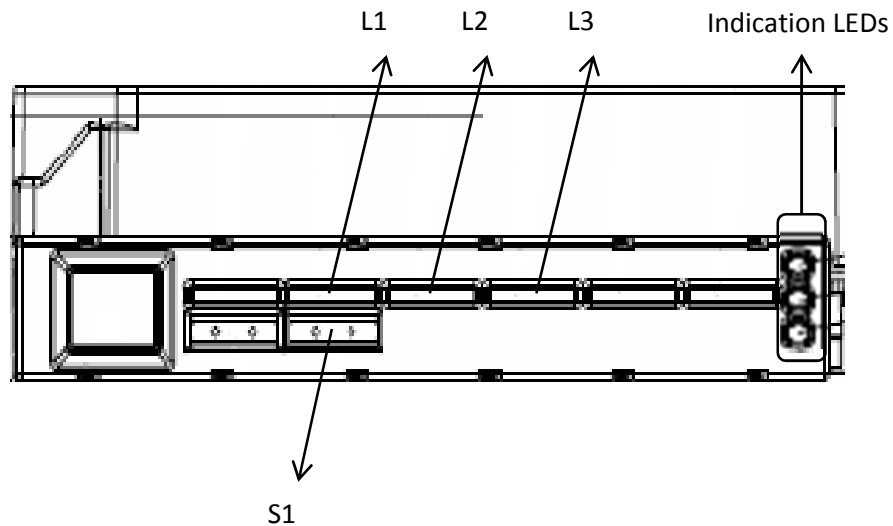
EDW503

EDW503

Styling Overview



Location of LEDs and Push Buttons



Reset

Press the S1 which is dedicated to this function.



Access Service Mode

1. Reset
2. Turn off the dishwasher
3. Press and hold S1 while switching on the dishwasher. Keep holding the Program button until:
 - LED L1 blinks, L2 and L3 is on
 - Service mode is accessed
4. Release S1



Alarm Reading and Actuator Test

1. After Service mode is accessed (when L1 is blinking, L2 and L3 is on), wait a few seconds till LED L2 and L3 to be turned off, then press the S1.
 - The first alarm code saved is shown: 2 of the indicator LEDs on the right blink in sequence, interrupted by pauses, corresponding to the alarm. The upper LED shows family code and the low one shows the current code. Details of alarm codes are in later Alarm codes section.
2. Press S1 again to show the second alarm
3. Press S1 once more to show the third alarm
4. Press S1 the fourth time to move on to Actuator Test. Press Program button repeatedly will sequentially turn on one actuator at a time.
 - One of the indicator LEDs on the right is turned on to show it is in Actuator Test.
 - See the table for details of Number of pressing and Actuator Number.
5. Press S1 when actuator number 10 is activated, the machine will cycle back to Alarm reading and show the first alarm code saved
6. Switch off the appliance to exit Service mode

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

LED Test / Delete Alarm Memory

1. After Service mode is accessed (when L1 is blinking, L2 and L3 is on), press the S1 before L2 and L3 is turned off.
 - LED L2 is blinking, L1 and L3 is turned on.
2. Wait till L1 and L3 is turned off, then press S1
 - All used LEDs flash 5 seconds on 1 second off repeatedly.
 - If buzzer is equipped, it beeps for 5 seconds
 - The alarms saved in the memory are erased
3. Switch off the appliance to exit Service mode

Functional Test Cycle

1. After Service mode is accessed (when L1 is blinking, L2 and L3 is on), press S1 twice before L2 and L3 is turned off
 - LED L3 is blinking, L1 and L2 is turned on
2. Wait till L1 and L2 is turned off, then press S1 and close the door.
 - The cycle starts and runs the same as a normal cycle
 - LED L3 blinks for the duration of the cycle
3. The cycle can be cancelled or run to its end.

Enable/disable Extra Rinse

Not available for this User Interface.

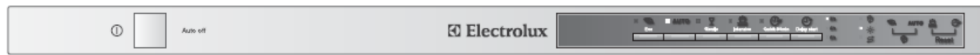
Enable/disable Pulse Wash

Not available for this User Interface.

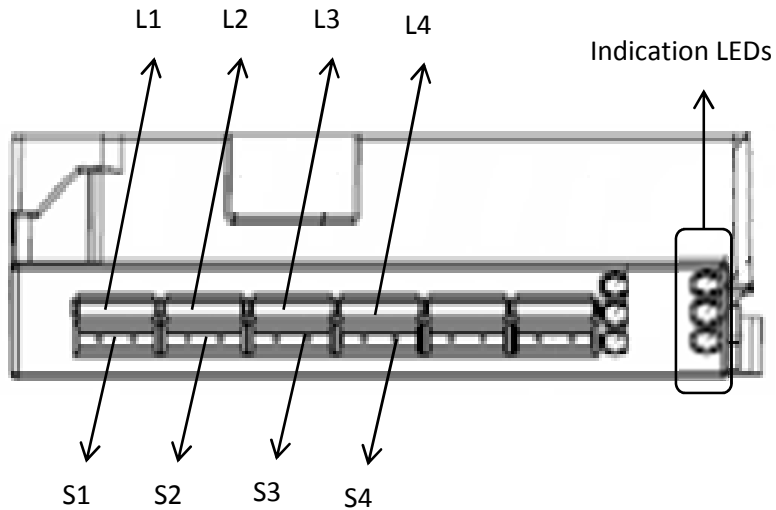
EDW1103

EDW1103

Styling Overview



Location of LEDs and Push Buttons



Technical Support – RA

Reset

Models with “Cancel” key combination

Open the dishwasher door, press buttons S2+S3 simultaneously for at least 2 seconds to perform Reset function.



Models with single “Reset” key

Open the dishwasher door, press the specific button dedicated to this function 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+S3 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.

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 is shown by blink sequences of 2 indicator LEDs on the right, while the upper one shows the family code and the lower one shows the current alarm code. 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 by blink sequences of one of the indicator LEDs on the right.
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.

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	

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 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.

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.
 - 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.
 - The Extra Rinse setting is shown by one of the indicator LEDs on the right. LED off for disabled, on 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):

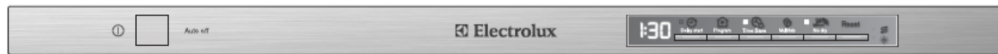
1. Press button S2+S3 to enter this function.
 - L2 blinks indicating it is in Pulse Wash setting mode.
2. The Pulse Wash setting is shown by one of the indicator LEDs on the right. LED off for disabled, on for enabled. Press button S2 to change the setting
3. Switching off the appliance will exit Service mode.



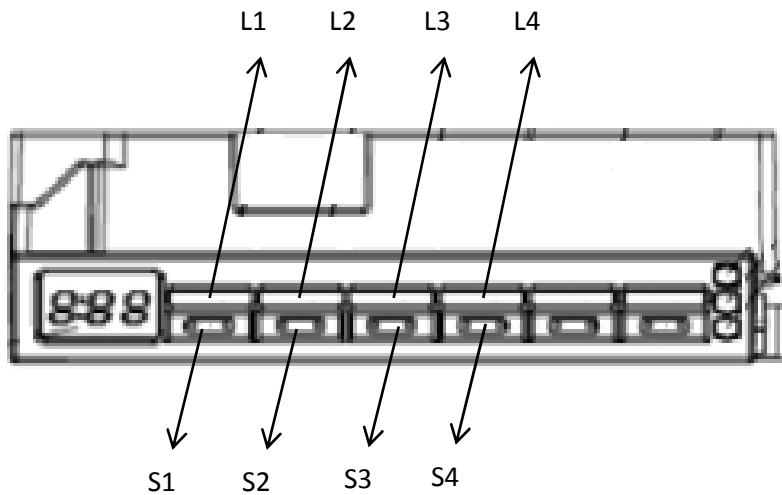
EDW1503 / EDW1753

EDW1503 / EDW1753

Styling Overview



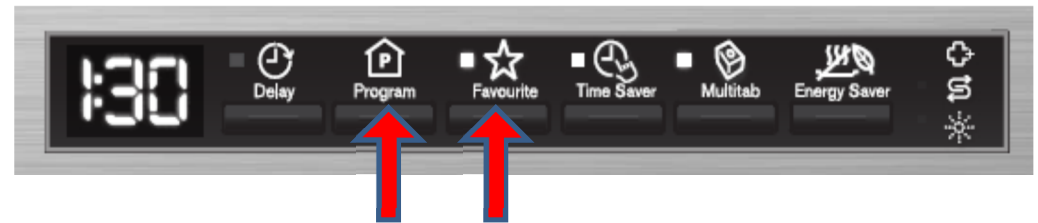
Location of Rotary, LEDs and Push Buttons



Reset

Models with "Cancel" key combination

Open the dishwasher door, press buttons S2+S3 simultaneously for at least 2 seconds to perform Reset function.



Models with single "Reset" key

Open the dishwasher door, press the specific button dedicated to this function for at least 2 seconds to perform Reset function.

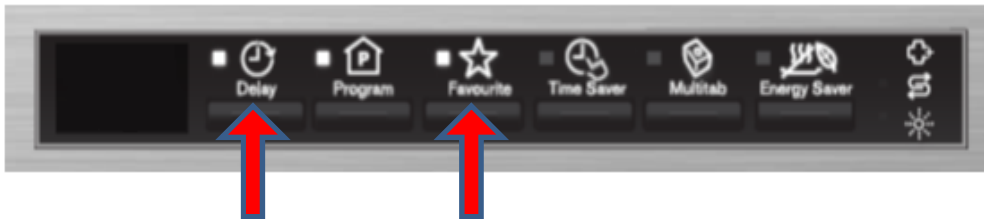


EDW1503 / EDW1753

Access Service Mode

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

For EDW1753 and EDW1503, press and hold button S1+S3 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.

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. For descriptions of alarm codes, 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.
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.

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	

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.

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

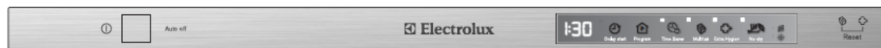
After accessed Service mode (L1, L2 and L3 blinking):

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.

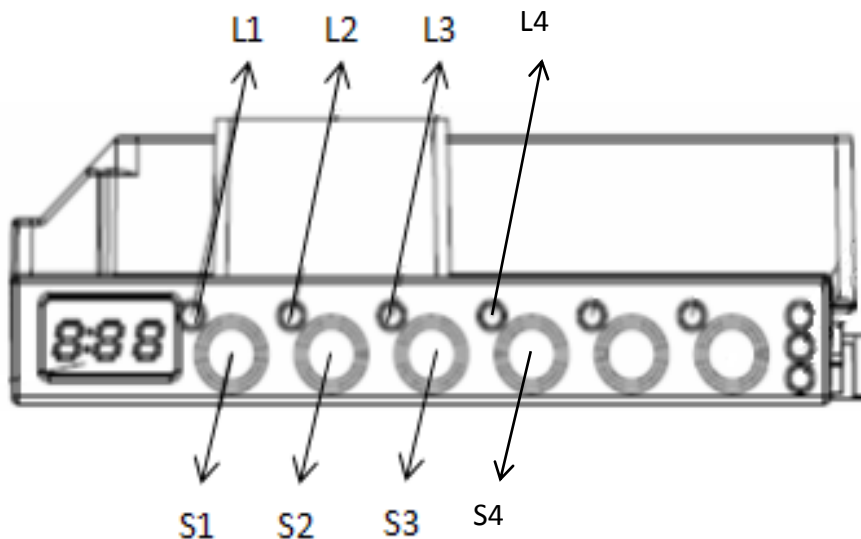
EDW1953

EDW1953

Styling Overview



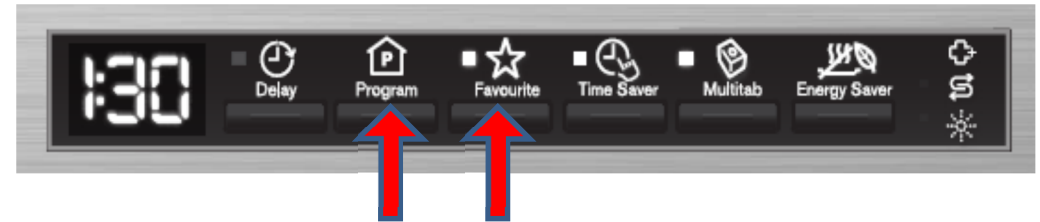
Location of LEDs and Push Buttons



Reset

Models with "Cancel" key combination

Open the dishwasher door, press buttons S2+S3 simultaneously for at least 2 seconds to perform Reset function.



Models with single "Reset" key

Open the dishwasher door, press the specific button dedicated to this function for at least 2 seconds to perform Reset function.



EDW1953

Access Service Mode

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

EDW1953 is a touch key model. After Reset and off/on, press button S1+S3 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):

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. For descriptions of alarm codes, 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.
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.

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	

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.

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.

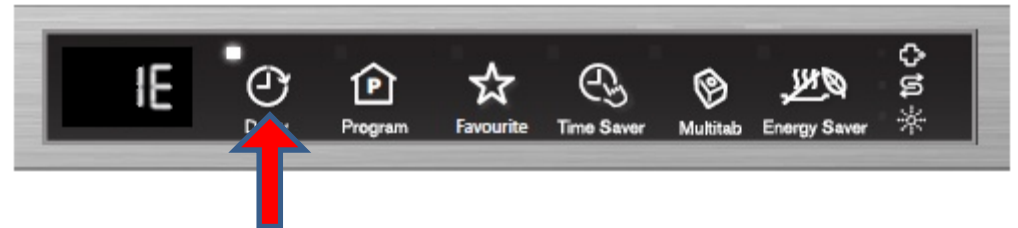


Enable/disable Extra Rinse

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



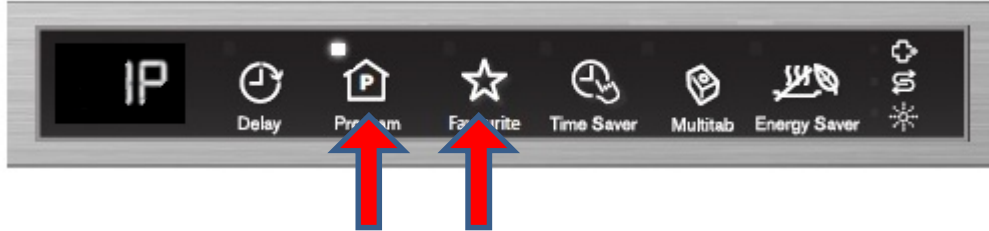
1. Press button S1+S2 to enter this function.
 - L1 blinks indicating it is in Extra Rinse setting mode.
 - Display show the current setting of Extra Rinse. "0E" for disabled, "1E" for enabled.
2. Press button S1 to change the setting.



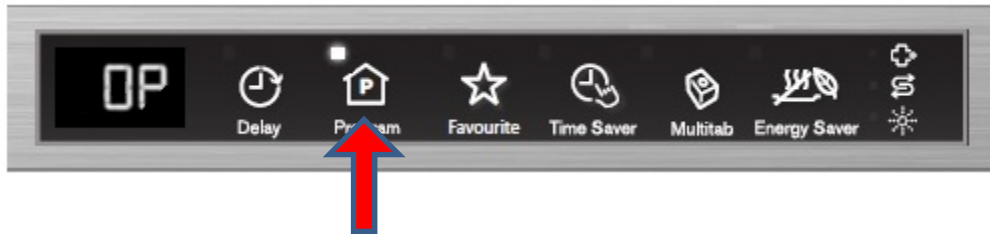
3. Switching off the appliance will exit Service mode.

Enable/disable Pulse Wash

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



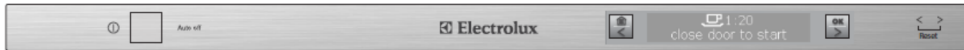
1. Press button S2+S3 to enter this function.
 - L2 blinks indicating it is in Pulse Wash setting mode.
 - Display show the current setting of Pulse Wash. "0P" for disabled, "1P" for enabled
2. Press button S2 to change the setting



3. Switching off the appliance will exit Service mode.

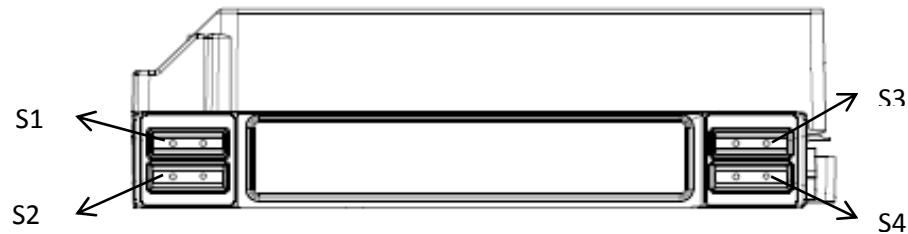
EDW 4013 / 4033

Styling Overview



The difference between User Interfaces can be detected by the buttons:
EDW4013 - Horizontal menu structure (with Left and Right arrow keys)
EDW4033 - Vertical menu structure (with Up and Down arrow keys)

Location of LEDs and Push Buttons

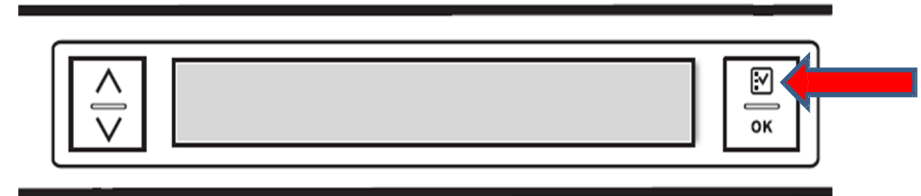


Reset

For EDW 4013, press the Program Key for at least 2 seconds, and then follow the instructions on the screen to perform Reset function.



For EDW4033, press the Program Key for at least 2 seconds, and then follow the instructions on the screen to perform Reset function.

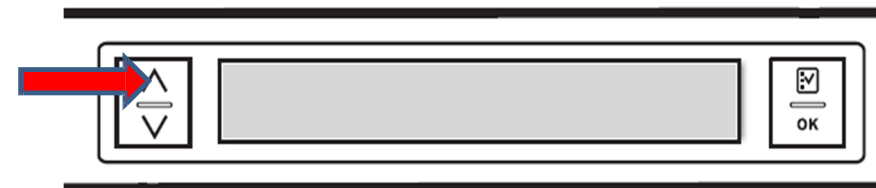


Access Service Mode

For EDW 4013 press and hold S2 while turn the appliance on, keep holding the buttons for 4 seconds.



For EDW 4033 press and hold S1 while turn the appliance on, keep holding the buttons for 4 seconds.



EDW 4013 / EDW4033

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.