



Lave vaisselle ELVC 491B

# Technical Service Guide

Compact Dishwasher ( 6 settings )

MODEL SERIES: WQP6-3603A

## IMPORTANT SAFETY NOTICE

The information in this service guide is intended for use by individuals possessing adequate backgrounds of electrical, electronic, and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

## WARNING

To avoid personal injury, disconnect power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks.

## RECONNECT ALL GROUNDING DEVICES

If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

**MIDEA CONSUMER PRODUCTS**  
TECHNICAL SERVICE GUIDE  
COPYRIGHT. 2014

ALL RIGHTS RESERVED. THIS SERVICE GUIDE MAY NOT BE REPRODUCED IN WHOLE OR IN PART, IN ANY FORM, WITHOUT WRITTEN PERMISSION FROM THE MIDEA DISHWASHER MANUFACTURING COMPANY.

## CONTENTS

Introduction .....	3
Specification .....	3
Control Panel Features.....	3
Component Locator Views .....	4
Dishwasher Components .....	6
Main control board.....	6
Floater assembly.....	7
Heating pump motor assembly .....	7
Heating pump assembly .....	8
Motor assembly.....	9
Drain pump assembly .....	10
Check plate.....	11



# Lave vaisselle ELVC 491B

Inlet valve .....	11
Control panel .....	12
Operating board .....	13
Outer Door .....	13
Dispenser .....	14
Inner Door .....	14
Shell .....	16
Door lock assembly .....	16
Air breaker .....	16
Hinge assembly and spring system .....	16
Tank assembly.....	16
Troubleshooting.....	<b>Erreur ! Signet non défini.</b>

## Introduction

WQP6-3603A compact electrical dishwasher with 6 washing cycles offers good washing performance to satisfy every washing requirement. Its electronic control is easy and convenient to operate. The rack can hold up to 6 sets of dishes. The size (width \* depth \* height: 550mm \* 500mm \* 438mm) can easily fit in any corner of the kitchen, and it's recommended to locate at which the water hose connection is accessible.

## Specification

Rated voltage:	220~240V / 50Hz
Rated power:	1170-1380W
Water pressure:	0.04~1.0MPa
Water temperature:	maximum 60°C
Capacity:	6 settings

## Control Panel Features



- 1** Power Button: To turn on/off the power supply.
- 2**
  - Display screen: to show the reminding time and the state (running state, delay time etc)
  - Rinse Aid indicator: \*  
Indicates when the dispenser needs to be refilled.
  - Add salt indicator: S.  
Indicates when the dispenser needs to be refilled.
  - Delay time: 24 hours option.
  - Program indicators: □ □ ∞ ∇ ∞ ∇.
- 3** Delay Button: To press the button to delay.
- 4** Washing Program Selector: Press the button to select wash cycles.
- 5** Start/Pause Button: Press this button to start or pause the dishwasher.

**Note:** all models have different control panel features and appearances. All detail can be referred to user manuals of the model.

# Component Locator Views

*Front View*



**Part Name: 1 – control panel 2 – outer door 3 – kick board**  
*Interior View (with basket)*



**Part Name: 1 – cutlery basket 2 – basket 3 – dispenser 4 – inner door**

# Lave vaisselle ELVC 491B

## Interior View (With Basket Removed)



Part Name: 1 –Nut of air breaker 2 –Water Softener cover 3 –Sprayer  
4 –Filter System

## Back View



Part Name: 1 –Bottom board 2 –Power cord 3 –Inlet hose connector  
4 – Outer drain hose

## Dishwasher Components

**Note:** Throughout this manual, features and appearance may vary from your model.

**WARNING:** Always turn off the electric power supply before servicing any electrical component, making ohmmeter checks, or replacing any parts.

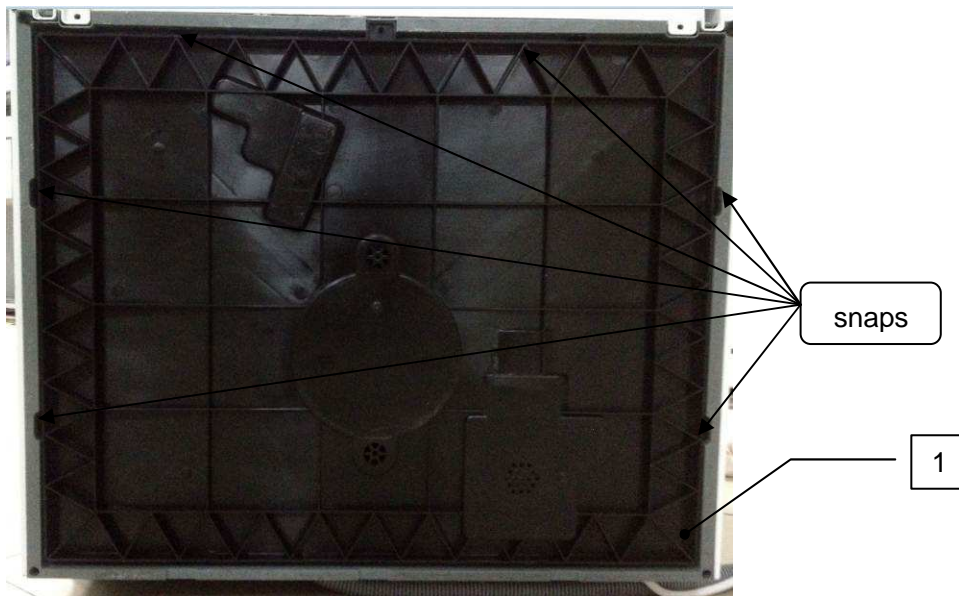
**Note:** All voltage checks should be made with a voltmeter having a full scale range of 250 volts or higher. After service is completed, be sure all safety grounding circuits are complete, all electrical connections are secure, and all access panels are in place.

### Main control board

The main control board controls all electrical elements in the dishwasher machine. It is located in the protecting box in the bottom of dishwasher machine. And it is easy to replace when it cannot work.

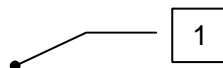
### Removal and Replacement

1. Disconnect power supply.
2. Take off **cutlery basket, basket and filter system.**
3. Turn the dishwasher machine. And unfix all snaps for fixing cover of bottom board.



**Part Name: 1 – cover of bottom board**

4. Pull out all housings and terminals (including some locking terminals), then unfix all snaps for fixing main control board.



# Lave vaisselle ELVC 491B



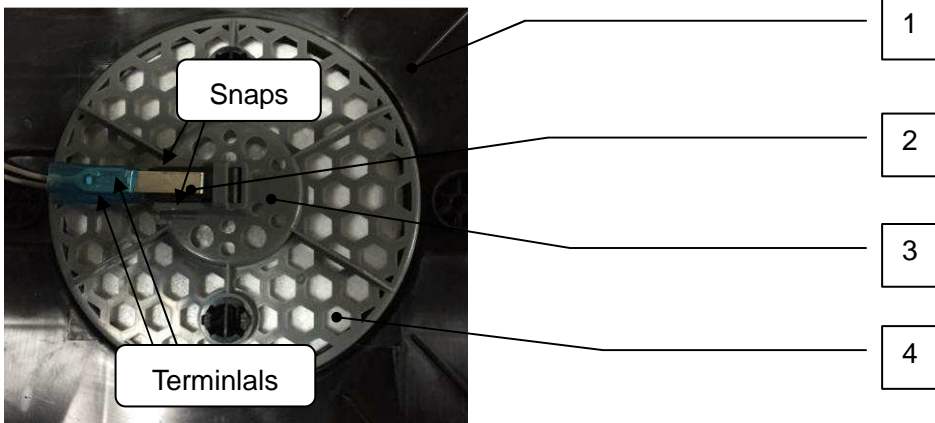
Part name: 1 – protecting box 2 – main control board

**Note:** mark all housings and terminals' positions and colors before pulling out them.

**Note:** some terminals are locking terminals.

5. Reverse the above procedure to install. And check out all connectors connects well.

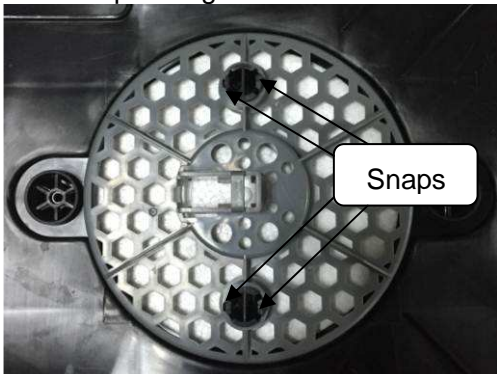
## Floater assembly



Part Name: 1 – cover of bottom board 2 – microswitch  
3 – floater holder 4 – floater

## Removal and Replacement

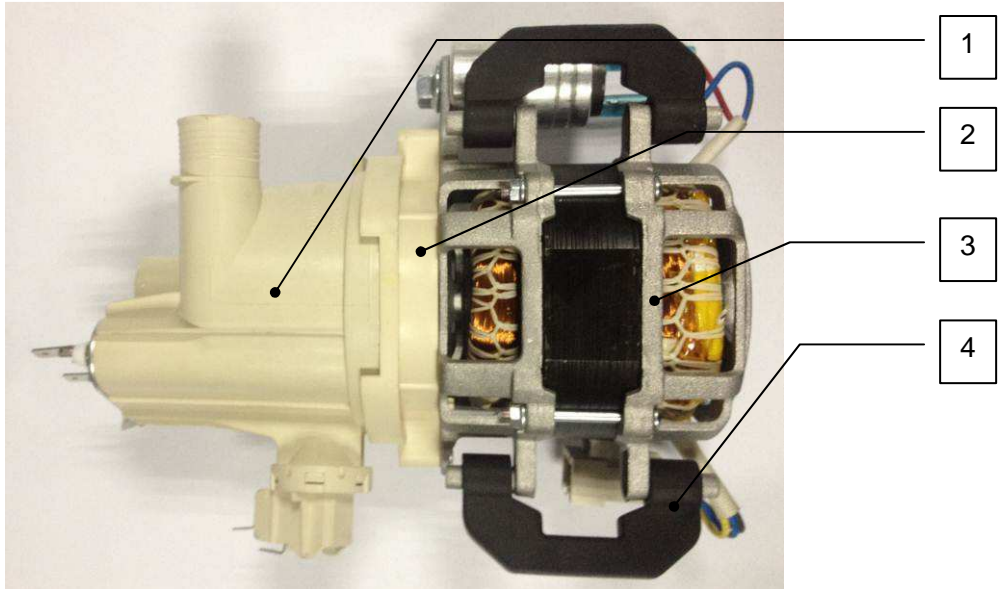
1. Remove **cover of bottom board**. (see **main control board** removal and replacement)
2. Pull out all terminals of microswitch.
3. Unfit snaps fixing microswitch to floater holder.



# Lave vaisselle ELVC 491B

4. Unfit snaps fixing floater holder to cover of bottom board.
5. Reverse the above procedure to install. And check out all connectors connected well.

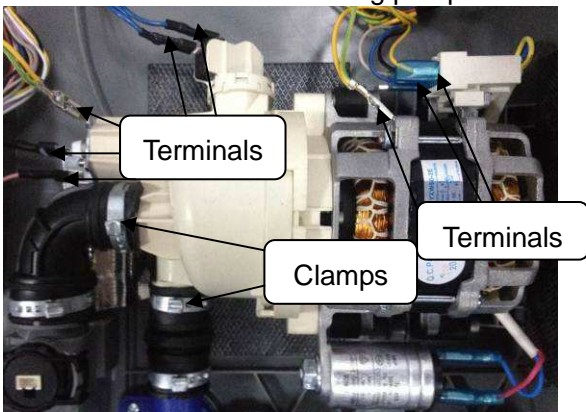
## Heating pump motor assembly



Part Name: 1 – heating pump assembly 2 – lower pump cover  
 3 – motor assembly 4 – motor hanger

### Removal and Replacement

1. Remove **cover of bottom board**. (see *main control board removal and replacement*)
2. Pull out all terminals of heating pump motor assembly.



# Lave vaisselle ELVC 491B

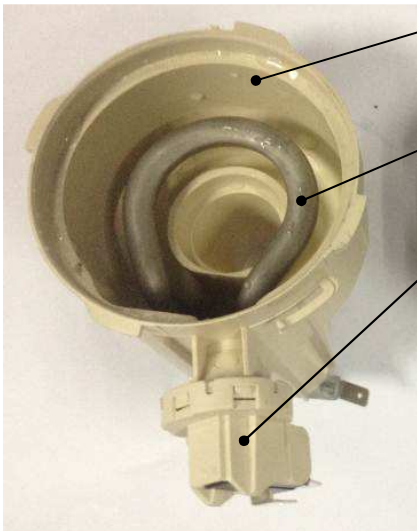


1

**Part Name: 1 – motor hunger**

3. Remove clamps fixing heating pump motor assembly to sump of bottom board.
4. Unfit motor hungers fixing heating pump motor assembly to bottom board.
5. Reverse the above procedure to install. And check out all connectors connected well.

## Heating pump assembly



1

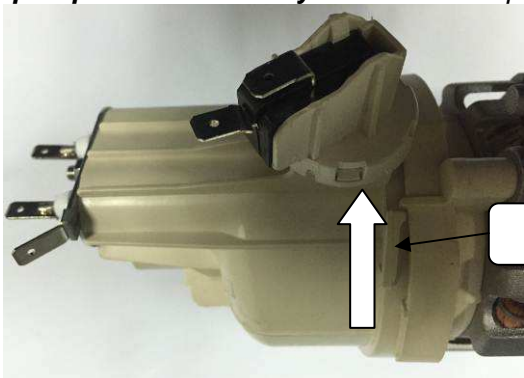
2

3

**Part Name: 1 – upper pump cover 2 – heating element 3 – pressure switch assembly**

## Removal and Replacement

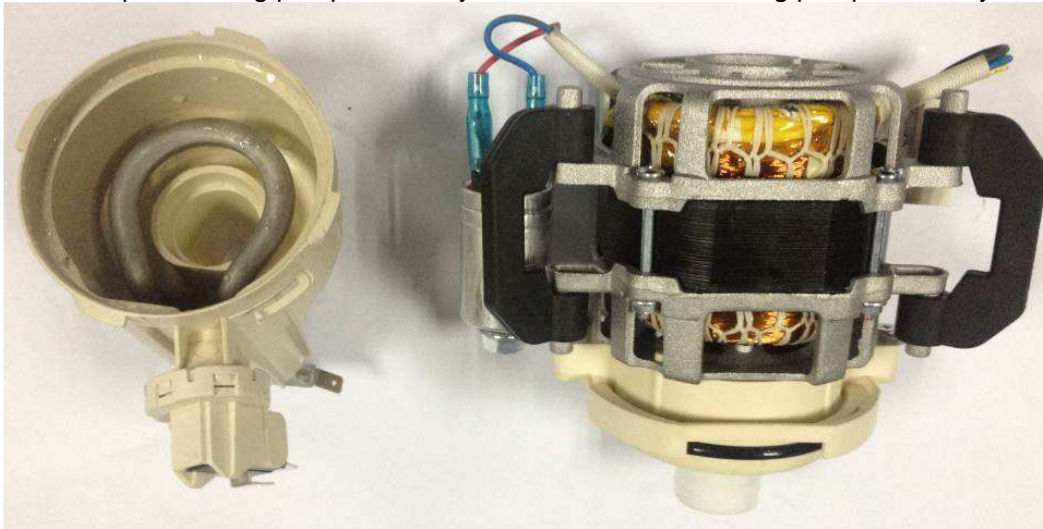
1. Take out heating pump motor assembly from the dishwasher machine. (see *main heating pump motor assembly removal and replacement*)



Snap

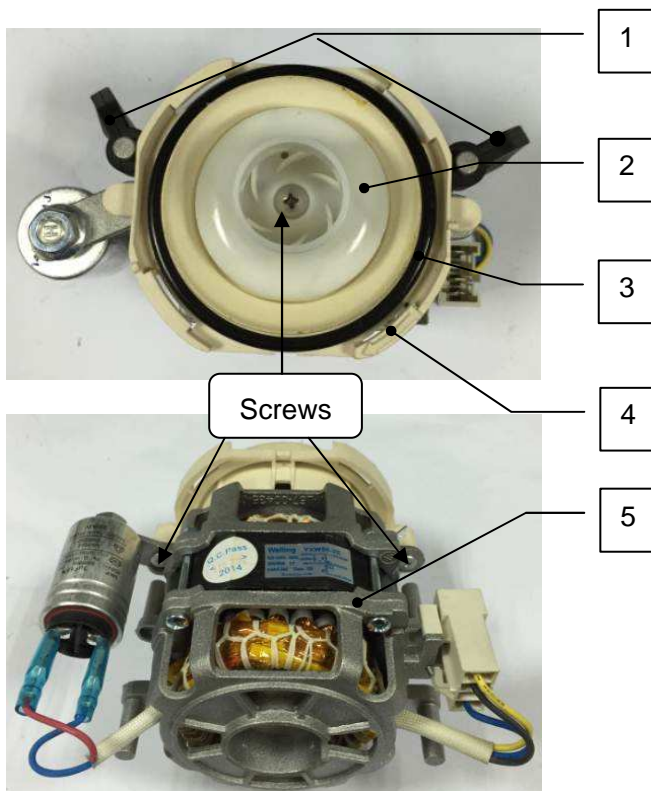
# Lave vaisselle ELVC 491B

2. Unfit snap of heating pump assembly, and contrarotate heating pump assembly.



3. Reverse the above procedure to install. And check out all connectors connected well.

## Motor assembly



Part Name: 1 – motor hunger 2 – impeller assembly 3 – pump seal ring  
4 – lower pump 5 – motor assembly

## Removal and Replacement

1. Take out heating pump motor assembly from the dishwasher machine. (see **main heating pump motor assembly removal and replacement**)
2. *Disassemble heating pump motor assembly. (see **heating pump assembly removal and replacement**)*

# Lave vaisselle ELVC 491B

3. Take out two motor hangers, and remove screws for fixing impeller assembly and lower pump to motor assembly.

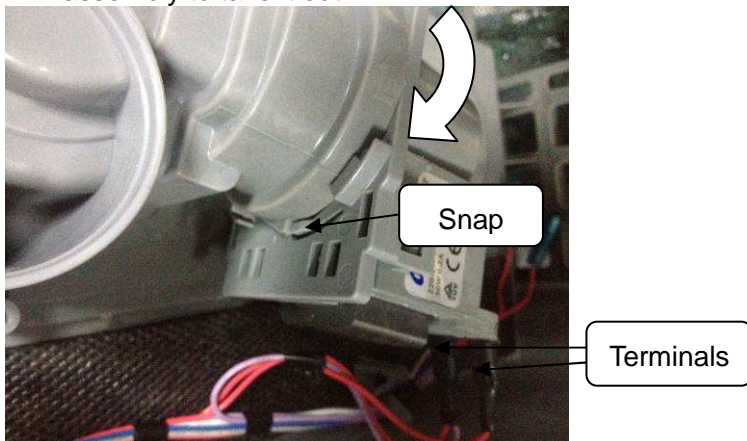


4. Reverse the above procedure to install. And check out all connectors connected well.

## Drain pump assembly

### Removal and Replacement

1. Remove **cover of bottom board**. (see *main control board removal and replacement*)
2. Pull out all terminals of drain pump assembly.
3. Unfit snap of drain pump assembly, and contrarotate drain pump assembly to take it out.



4. Reverse the above procedure to install. And check out all connectors connected well.

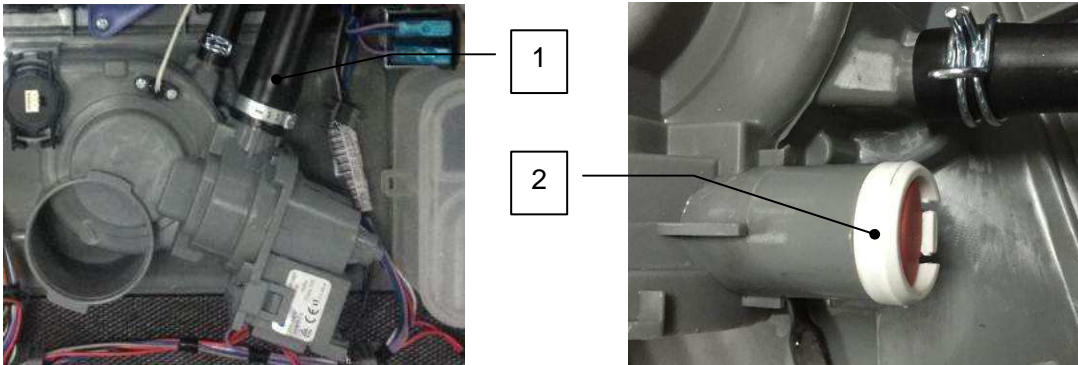
## Check plate

### Removal and replacement

1. Remove **cover of bottom board**. (see *main control board removal and replacement*)
2. Remove clamp fixing inner drain hose to **bottom board**, and pull it out .



## Lave vaisselle ELVC 491B



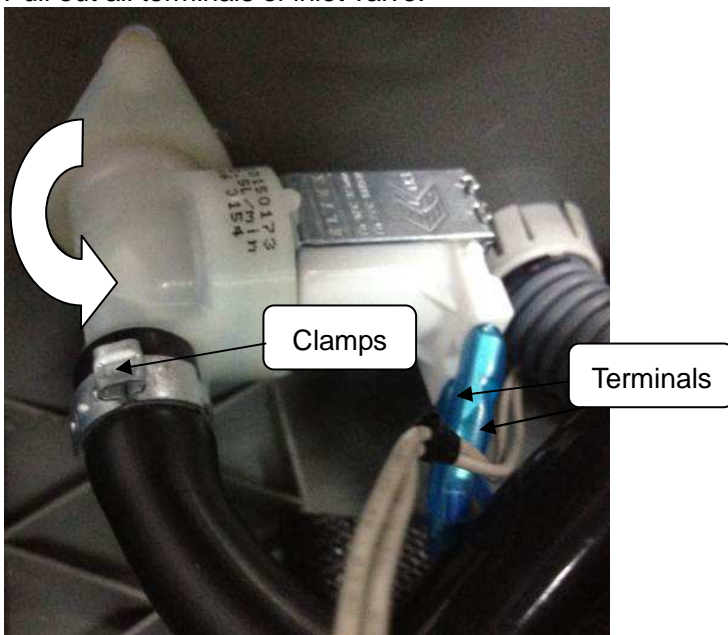
**Part Name: 1 – inner drain hose 2 –check plate assembly**

3. Pull out check plate from check plate holder, and replace a new check plate.
4. Reverse the above procedure to install. And check out all connectors connects well.

### Inlet valve

#### Removal and Replacement

1. Remove **cover of bottom board**. (see *main control board removal and replacement*)
2. Pull out all terminals of inlet valve.



3. Remove clamp for fixing connecting hose to inlet valve, *and* contrarotate inlet valve to take it out.
4. Reverse the above procedure to install. And check out all connectors connected well.

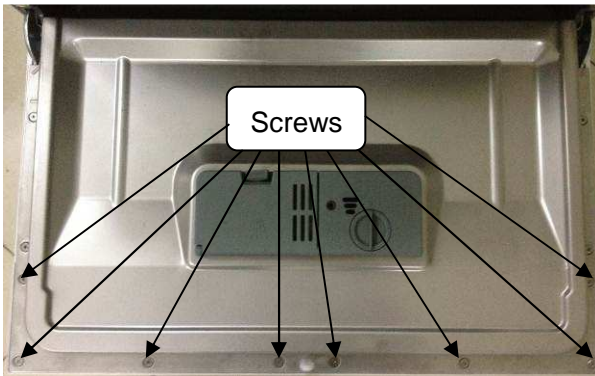
### Control Panel

The outer door covers the door to the dishwasher and protects the detergent dispenser.

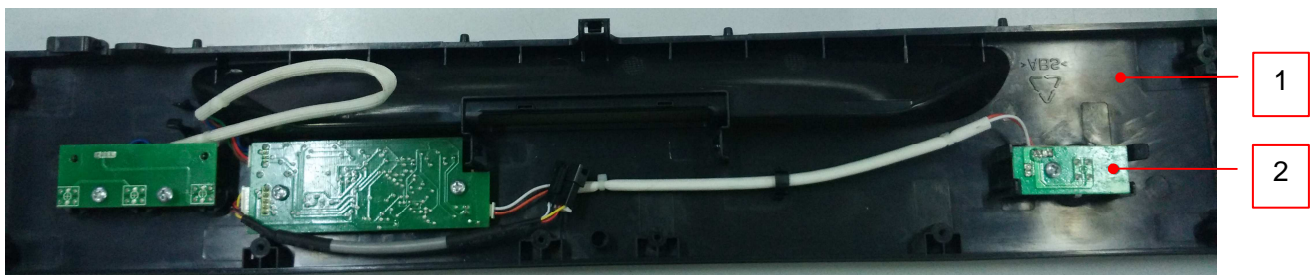
#### Removal and Installation

1. Open the door of dishwasher. And remove all screws for fixing control panel.

# Lave vaisselle ELVC 491B



2. Remove screw and unfix all snaps for fixing the operating board.



**Part Name: 1 – Control panel 2 – operating board**

3. Reverse the above procedure to install. And check out all connectors connected well.

## Operating board

### Removal and Replacement

1. Disconnect power supply.
2. Remove all screws for fixing control panel. (see **control panel removal and installation**)
3. Put out all housings for connecting operating board.
4. Remove screw and unfix all snaps for fixing the operating board. (see **control panel removal and installation**)
5. Reverse the above procedure to install. And check out all connectors connected well.

## Outer Door

The outer door covers the door to the dishwasher and protects the detergent dispenser.

### Removal and Installation

1. Open the door of dishwasher. And remove all screws for fixing outer door.
2. Reverse the above procedure to install. And check out all connectors connected well.

# Lave vaisselle ELVC 491B



**Front View (with outer door assembly removed)**



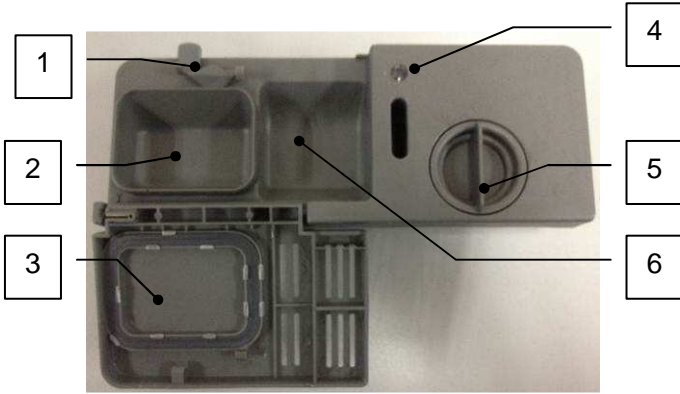
**Part Name: 1 – stream resistant cotton 2 – dispenser 3 – sound absorbing cotton 4 –door hinge (left) 5 – rod for door hinges 6 –door hinge (right) 7 – kick board**

## Dispenser

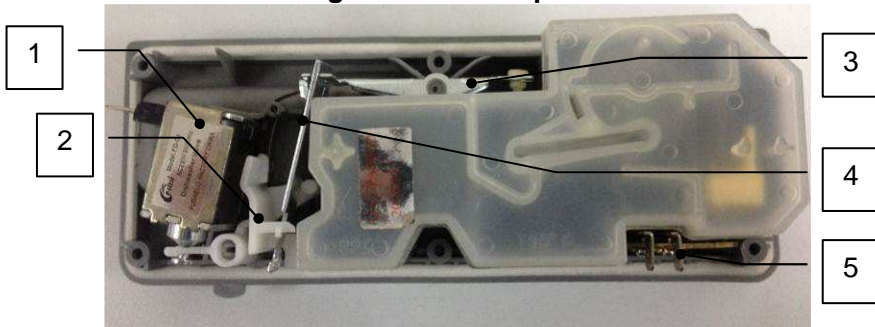
The dispenser automatically dispenses both the detergent and the rinse agent at the appropriate times. The dispenser is activated twice during a wash cycle.

The first time, the dispenser is activated, **the lever** slides up the right-hand path of **the connecting rod**. This action moves **the cover catch** and releases the detergent cover. When deactivated, the lever resets to rest under the notch in the center of **the connecting rod**. When activated for the second time in a cycle, the lever lifts **the connecting rod** by the notch, lifting the rinse dispenser **plunger** and releasing the rinse agent. When deactivated, the lever returns to its original starting position. **The magnetic sensor** is connected to rinse aid warning light at control panel by wires. When the indicator lights up, it should add more rinse aid.

## Lave vaisselle ELVC 491B



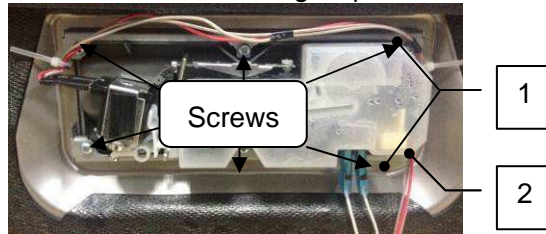
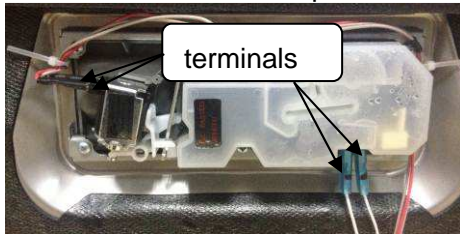
Part Name: 1 – cover catch 2 – detergent power compartment  
3 – cover 4 –sight glass 5 – rinse agent cap  
6 – detergent tablet compartment



Part Name: 1 – electromagnetic valve 2 – lever  
3 – plunger 4 – connecting rod  
5 – magnetic sensor

### Removal and Replacement

1. Remove outer door assembly. (see **outer door** removal and installation)
2. Pull out all terminals of dispenser. Then remove all screws for fixing dispenser.



Part Name: 1 – dispenser brackets 2 – dispenser

3. Reverse the above procedure to install. And check out all connectors connected well.

### Inner Door

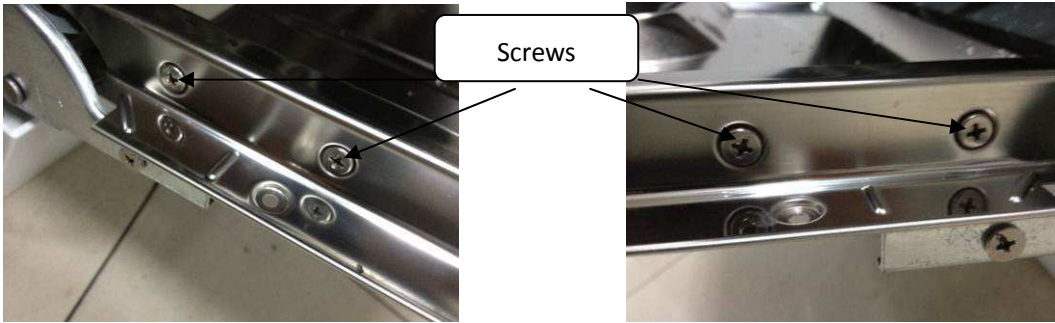
**Caution:** Inner door of edges are sharp.

### Removal and Replacement

1. Remove outer door assembly. (see **outer door** removal and installation)
2. Remove control panel .(see **control panel** removal and installation)
3. Remove dispenser. (see **dispenser** removal and replacement)
4. Remove all screws for fixing inner door to right hinge assembly and left hinge assembly.



## Lave vaisselle ELVC 491B



5. Remove dispenser. (see **dispenser** removal and replacement)
6. Reverse the above procedure to install. And check out all connectors connected well.

### Shell

#### Removal and Installation

1. Remove all screws for fixing shell with tank and bottom board assembly in the rear of dishwasher machine.



2. Push the shell from front to back. And take it away from the machine.



3. Reverse the above procedure to install. And check out all connectors connects well.

#### **Top View (with shell removed)**

# Lave vaisselle ELVC 491B

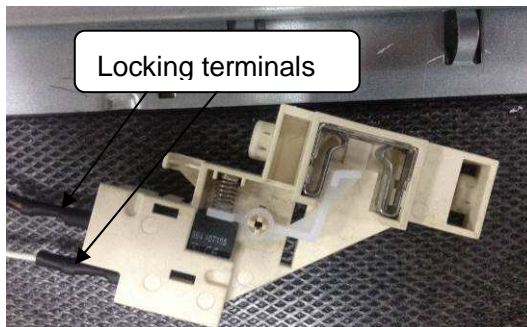
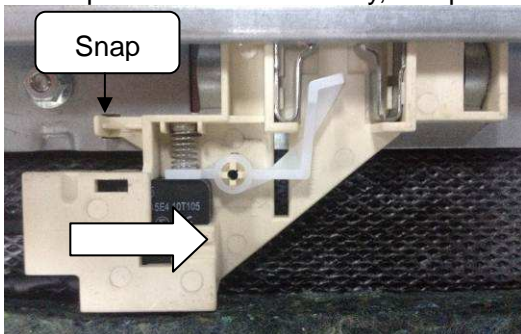
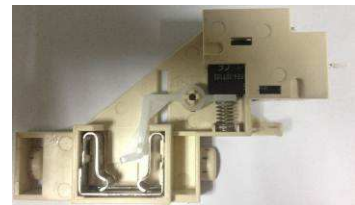


Part Name: 1 – door switch assembly 2 – absorber 3 – 4 –backboard

## Door Lock Assembly

### Removal and Replacement

1. Disconnect power supply.
2. Remove shell. (see **shell** removal and installation)
3. Unfit snap of door lock assembly, and push it out.



4. Pull out all terminals of microswitch fixed on the door lock assembly.
5. Reverse the above procedure to install. And check out all connectors connected well.

## Air breaker

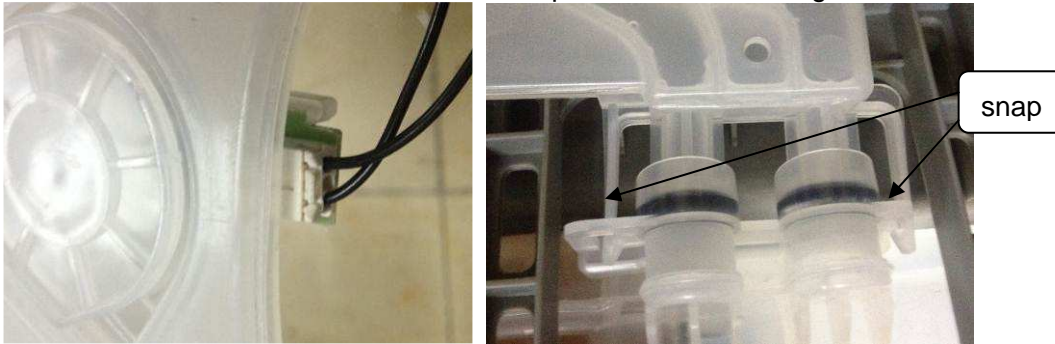
### Removal and Replacement

1. Remove **shell**. (see **shell** removal and installation)
2. Take out **absorbing cotton, upper basket and lower basket**.
3. Contrarotate nut of air breaker and take it out.



## Lave vaisselle ELVC 491B

- Pull out terminal of air breaker, and unfit snaps of air breaker fixing on softener.



- Turn the dishwasher machine, remove the cover of bottom board. (see **main control board** removal and installation)
- Remove all clamps for fixing connecting hoses to air breaker.
- Reverse the above procedure to install. And check out all connectors connected well.

### Hinge assembly and Spring system



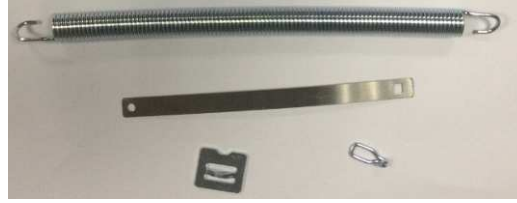
Part Name: 1 – spring holder 2 – spring 3 – friction strip 4 – absorbing cotton  
5 – hinge assembly

### Removal and Replacement

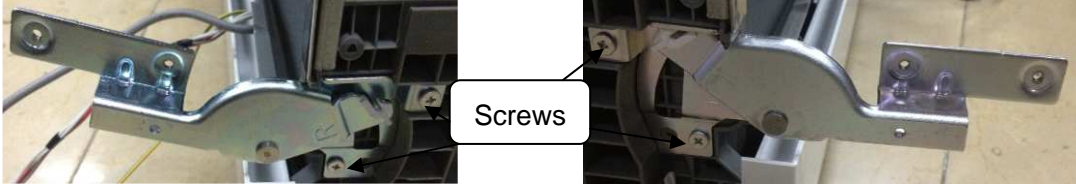
- Remove **shell**. (see **shell** removal and installation)
- Take out **absorbing cotton**.
- Take off **spring holder** from the slot of bottom board.

**Caution:** This operation must be more carefully, it is easy to be injured by the friction strip.

## Lave vaisselle ELVC 491B



4. Remove all screws for fixing hinge assembly to bottom board.



5. Reverse the above procedure to install. And check out all connectors connected well.

### Tank assembly



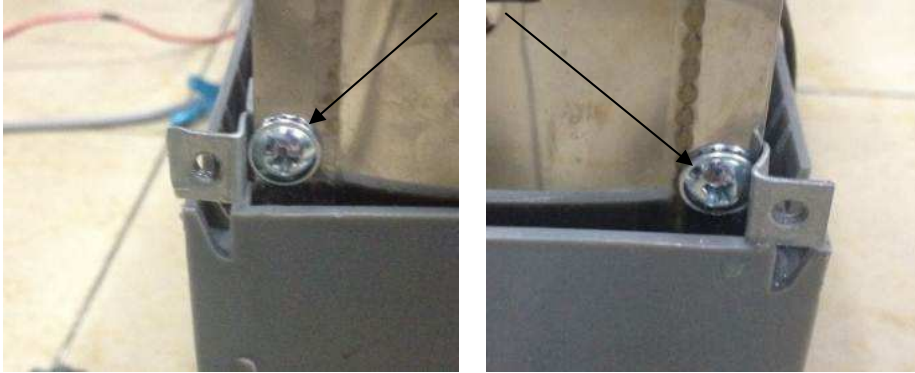
### Removal and Installation

1. Remove **shell**. (see **shell** removal and installation)
2. Take out **absorbing cotton**.
3. Remove air breaker. (see **air breaker** removal and replacement)
4. Remove all screws for fixing tank assembly to bottom board.



Screws

## Lave vaisselle ELVC 491B



5. Reverse the above procedure to install. And check out all connectors connected well.

### Troubleshooting

SYMPTOM	CHECK FOR THE FOLLOWING	REMEDY
The led show "E1" ( Dishwasher will not fill with water or will not fill properly. )	The water supply is turned off.	Turn the water supply on.
	Defective water fill valve.	Replace the water fill valve.
	Low water pressure.	Minimum water pressure of 20 PSI.
	Obstructed water fills valve or hose.	Disassemble and clean the water fill valve and hose.
	Damaged or defective wiring.	Repair the wiring.
	Defective pressure switch for high water level safeguard.	Replace the pressure switch.
	Defective flowmeter.	Replace the flowmeter
	Heavy water usage elsewhere in home.	Use dishwasher when water usage is at a minimum.
Dishwasher will not pump out.	Defective drain pump.	Replace the drain pump.
	Obstructed drainhose	check the drainhose
	Defective PCB assembly	Replace the PCB assembly
	Damaged or defective wiring.	Repair the wiring.
Dishwasher runs but. will not heat.	Low input voltage.	The lowest input voltage is 198V
	Defective Thermal resistor	Replace the Thermal resistor
	Damaged or defective wiring.	Repair the wiring.
	Too little water fill.	See "Too little water fill."
	Defective micro-switch of pressure switch assembly.	Replace the micro-switch of pressure switch assembly.
	Defective heating element.	Replace the heating element.
(The led show "E4" ( overfall alarm )	Defective micro-switch for overfall safeguard	Replace the micro-switch
	Damaged or defective wiring.	Repair the wiring.
	Defective PCB assembly	Replace the PCB assembly
	Water leaks from dishwasher.	See "Water leaks from dishwasher"
Do not work when press start	The door not close well	close the door
	Defective door switch contacts.	Replace the door switch.
	Defective door handle assembly.	Replace the door handle assembly.
	Damaged or defective wiring.	Repair the wiring.
	Defective PCB assembly	Replace the PCB assembly
Too little water fill.	Dishwasher not level.	Level the dishwasher.

## Lave vaisselle ELVC 491B

	Defective flowmeter.	Replace the air breaker
	Clogged filter assembly.	Clean the filter assembly.
	Water siphons out	Clean or Replace the air breaker
Dishwasher runs with door open.	Defective door switch contacts.	Replace the door switch.
	Defective door lock assembly.	Replace the door lock assembly.
	Damaged or defective wiring.	Repair the wiring.
	Defective PCB assembly	Replace the PCB assembly
Motor hums but will not start or run.	Defective motor bearings.	Replace the motor.
	Defective motor capacitor.	Replace the motor capacitor.
	Damaged or defective wiring.	Repair the wiring.
	Improper motor voltage.	Replace the motor.
Motor trips out on internal thermal overload protector	Motor windings shorted.	Replace the motor.
	Improper motor voltage.	Replace the motor.
	Defective motor capacitor.	Replace the motor capacitor.
	Defective motor bearings.	Replace the motor.
Repeated dishwasher cycles.	Defective PCB assembly	Replace the PCB assembly
Water remains in bottom	A small amount of water (in sump area) is normal.	This is necessary to keep the pump primed and is drained automatically at the beginning of each cycle.
	Defective drain pump	Replace the drain pump.
	Defective Check plate	Clean or Replace the Check plate
	Defective One way valve	Clean or Replace the air breaker
Spotting or filming on glasses (reposition of food soil).	Detergent allowed to stand too long in the dispenser or excessive amounts of detergent are being used.	Instruct the customer on proper use of dishwasher detergent. Refer to the owner's manual.
	Improper loading of dishes, pots, pans, and nesting of silverware.	
Noisy pump assembly.	Debris in bottom of tub sump area.	Clean out the sump area.
	Pump parts were not properly installed.	Inspect the pump and correct and installation errors.
	Impellers are not properly shimmed or are rubbing.	Use the shim gauge furnished in the impeller seal kit. When the seal is properly shimmed the impellers will be in the correct operating position.
Poor washability.	Clogged filter assembly.	Clean the filter assembly.
	Dishware stop the sprayer	revolve the sprayer before wash.
	Improper loading of dishes, pots, pans, and nesting of silverware.	Refer to the owners manual.
	Little detergent/rinse module	
	Select improper program	Replace the detergent/rinse module.
	Defective detergent/rinse module	
	Defective spray arm.	Check spray arm for proper rotation.
	Too little water fill.	See "Too little water fill" symptom.
Defective motor pump	Replace the motor pump	
Poor drying of dishes	Improper loading of dishes, pots, pans, and nesting of silverware.	Instruct the customer on proper loading of the dishwasher. Refer to the owners manual.
	Select improper program	
	Defective dispenser	Replace the dispenser
Water leaks from	Too much water fill.	See previous symptom.
	Defective drain pump	Replace the drain pump

## Lave vaisselle ELVC 491B

dishwasher.	Dishwasher not level.	Level the dishwasher.
	Soap suds leak from dishwasher.	Refer to use and care manual.
	Loose hose clamps.	Tighten or replace hose clamps.
	Loose overflow cover.	Remount the overflow cover.
	Drain pump assembly not seated properly with sump.	Remount the drain pump assembly.
	Defective flow system seals.	Replace the flow system seals.