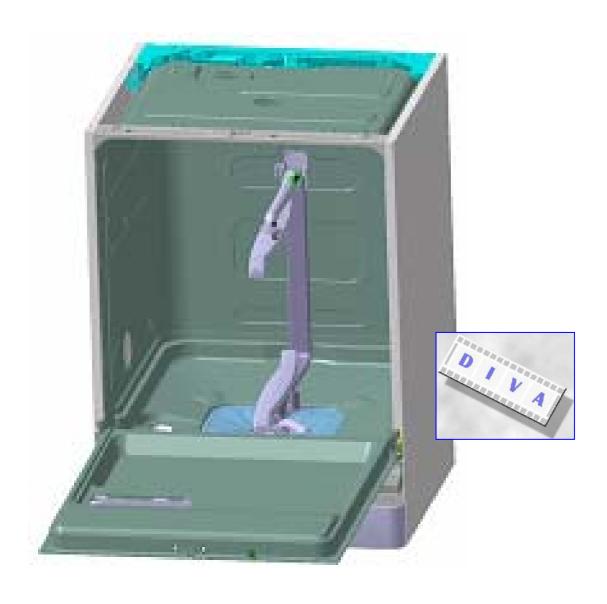


# **SERVICE MANUAL**

# **DISHWASHERS**



© E.M.A. - Europe Spares Operations Italy Corso Lino Zanussi,30 I - 33080 PORCIA /PN (ITALY) Fax +39 0434 394096

Edition: 2005-12

**DISHWASHERS** 

"DIVA"

60 cm PNC 911 5.....

**ACCESSIBILITY** 

Production: PLV – Zarow (Poland)

Publication no.

599 37 44-27

ΕN

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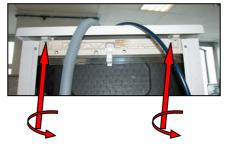


- Repairs to electrical appliances must be effected by qualified personnel only.
- Before accessing internal components, remove the plug from the power socket.

### 1 ACCESSIBILITY

# 1.1 To access the components from above, first remove the worktop (free-standing versions only):

- (a) Remove the two screws from the rear section.
- (b) Push the top forwards and release.

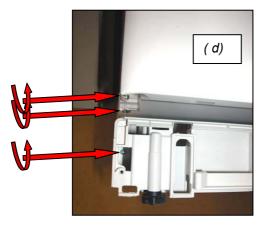


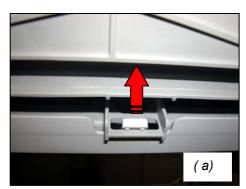
# 1.2 To access the components housed in the base from the front of the appliance (free-standing versions):

- (a) Remove the 5 lower plastic hooks starting from one side.
- (b) Open the door to free the plinth.
- (c) Rotate it and extract it.

#### Foot support:

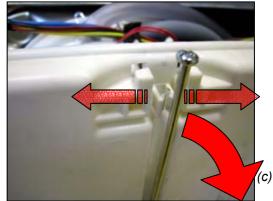
(d) Remove the 6 fixing screws and remove it paying attention not to damage the external door.

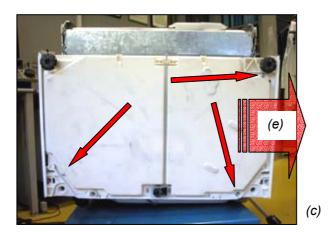


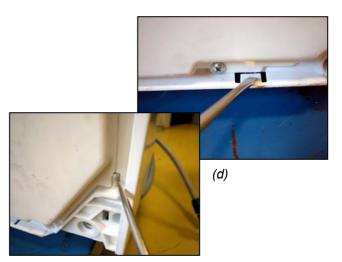


1.3 To access the components housed in the base from the lower section, remove the bottom panel (if featured) as follows:

- (a) Remove the inner filters (see 3.1 and 3.2).
- (b) Remove any residual water from the sump by suction, so that it does not flow into the tub and the pressure switch tubes, then lay the appliance on its rear panel.
- (c) Unscrew and remove the regulation screw from the rear foot (built-in versions only).
- (d) Remove the screws which secure the bottom panel to the base).
- (e) Release the built-in retaining elements placed on the right and rear side: and remove the bottom panel by sliding to the right.

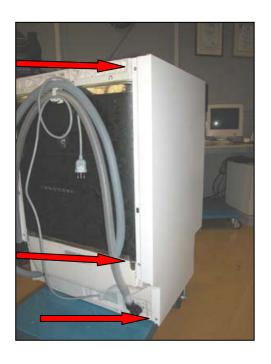


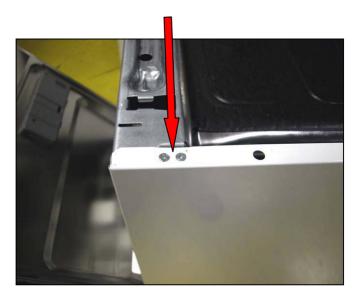




# 1.4 To access components from the side, remove the relative lateral panel:(a) First remove the worktop (see 1.1), the plinth (free-standing versions) and the foot support (see 1.2).(b) Remove the three rear screws, the upper and the lower front.

- (c) Detach the lateral panel from the rear and slide away from the frontal anchor slot.





NB: Before laying the dishwasher on a side panel or on the rear panel suck the water in the sump, for example by using a syringe, so as the water does not reach the pressure switch tube or the tub.

#### STRUCTURAL CHARACTERISTICS 2

The appliance may be considered as consisting of three major assemblies:

#### **DOOR AREA** - BASE AREA - TUB AREA

The entire structure is enclosed by a series of removable parts such as the worktop (free-standing versions only), the door, two lateral panels, the plinth (free-standing versions only) and the foot support. Removal of these parts facilitates access to the internal components from above, from the front, from the sides and from the base of the appliance.

#### 2.1 Door area

- Control panel assembly
- External door
- Internal door
- Hinge
- Hinge pin
- Lower door seal
- Door latch assembly
- Integrated dispenser

#### 2.2 Base area

- Base
- Removable bottom panel (if featured)
- Adjustable feet
- Foot support
- Adjustable rear foot (central) (built-in and fully-integrated versions)
- Electronic board
- Anti-flooding device (if featured)
- Wash pump capacitor
- Integrated terminal block/power cable/suppressor
- Washing motor
- Tube-enclosed heating element
- Drain pump
- Drain pump non-return valve
- □ Fill solenoid valve (if featured)
- Regeneration solenoid valve
- Plinth (free-standing versions)
- Water softening system
- Salt sensor (if featured)
- Level pressure switch
- Anti-overflow pressure switch

#### 2.3 Tub area

□ Tub

#### Fitted externally to the tub:

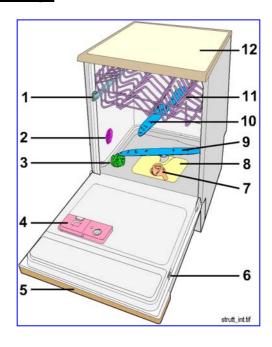
- Lateral uprights
- Upper rear cross-member
- Upper front cross-member
- Lower front cross-member
- Supports for upper basket wheels
- External feed manifold to the upper spray arm
- Sump assembly
- □ Thermostat/temperature sensor + turbidity sensor
- Water fill tank (short or long)
- Drying duct/fan (if featured)

#### Fitted inside the tub:

- Sliding guides for upper basket
- Central drain filter
- Large washing filter
- Lower spray arm
- Upper spray arm
- Internal feed manifold to the upper spray arm
- Upper/lower basket
- Cap for water softening system
- Steam venting ring

# 3 Open the door to access the following:

- 1. Guides/wheel supports for upper basket
- 2. Regulation knob for water softening system
- 3. Salt reservoir cap
- 4. Integrated detergent/rinse-aid dispenser
- 5. Control panel assembly
- 6. Serial number plate
- 7. Central drain filter
- 8. Large washing filter
- 9. Lower spray arm
- 10. Upper spray arm
- 11. Upper/lower basket (\*)
- 12. Worktop (free-standing versions only)



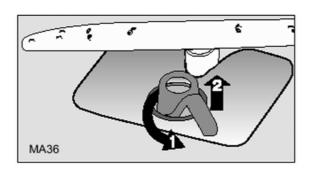
<sup>(\*)</sup> When replacing the EASY LIFT drum regulation assemblies, it is advisable to immerse them in hot water for a few minutes, since they are easier to fit when softened.

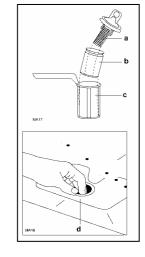
#### 3.1 Central drain filter

(a) From inside the tub, use the lever to rotate the filter assembly (a+b+c) about 45° in a counter-clockwise direction, and remove the assembly from its housing.

(b) Use the central ring to pull the coarse-mesh filter (a) and remove from the fine-mesh filter (b).

Separate the microfilter (c) from filter (a).





#### 3.2 Large washing filter

(a) After removing the central drain filter (see 3.1), remove the filter (d) from the bottom of the tub.

#### 3.3 Lower spray arm

(a) After removing the lower basket, pull the spray arm upwards, gripping it by the central hub.

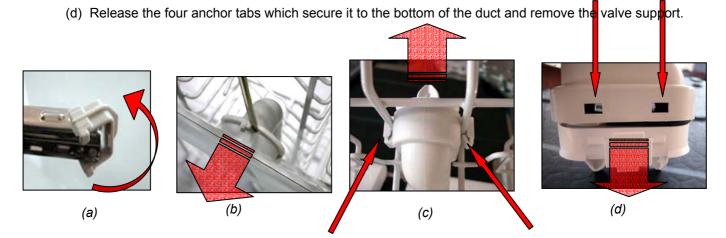


#### 3.4 Upper spray arm and duct

- (a) After extracting the upper basket rotate and open the front stops: remove the upper basket from the stud.
- (b) Detach the spray arm from the duct using a very fine-tipped screwdriver. Take care not to damage the surface of the spray arm.

#### To inspect the membrane valve fitted to the duct:

(c) Use a tool to release the two rear tabs and completely detach the duct from the basket.



NB: While remounting the spray arm, pay attention not to break the plastic hooks.

# 4 Access from above

#### 4.1 Drying duct/fan (if featured)

- (a) Remove the worktop (see 1.1), for the free-standing dishwashers
- (b) Raise gently and detach the duct from the water fill tank, taking care not to damage the sponge sealing element between the tank and the duct.
- (c) From inside the tub, detach the intake ring by pressing the four hooks.
- (d) Carefully lift the duct and remove it.
- (e) Detach the connector to the fan.
- (f) In order to inspect or replace the drive belt, detach the upper cover from the fan taking care not to damage the plastic hooks.







# 5 Access from the front

#### 5.1 Sliding guide for upper basket

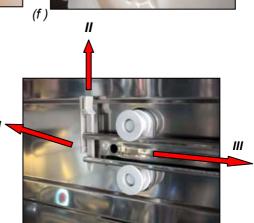
- (a) Remove the upper basket (see 3.4.a).
- (b) Remove the rear arrest by releasing the anchor tab and pulling upwards.
- (c) Remove the guide from the supports.

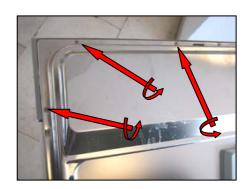
#### 5.2 Control panel assembly

- (a) Remove the door, and then remove the six self-tapping screws which secure the control panel to the inner door.
- (b) Supporting the control panel assembly, remove from the inner door.
- (c) Detach the electrical connections.

The following components (if featured) are fitted inside the control panel and secured by screws or pressure-fitted:

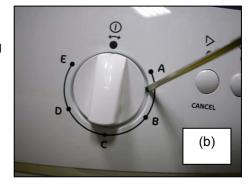
- Power/display board
- Knob assembly



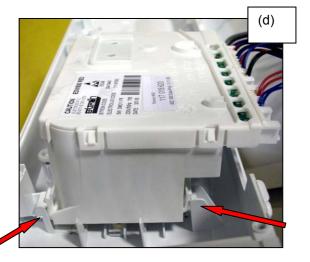


#### 5.2.1 PCB

- (a) Detach the electrical connections.
- (b) Slide away and remove the knob-flange assembly paying attention not to damage the components.
- (c) Remove the 2 screws which secure it to the control panel.
- (d) Use a tool to release the four lateral anchor tabs.
- (e) Remove the board and its casing from the control pane.

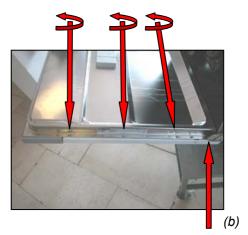






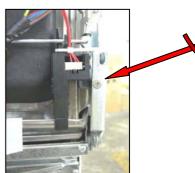
#### 5.3 External door

- (a) Open the door and remove the six perimetral screws which secure it to the inner door.
- (b) Remove the two lateral screws
- (c) Slide the external door forwards and remove



#### 5.4 Beam on floor (fully-integrated versions only, if featured)

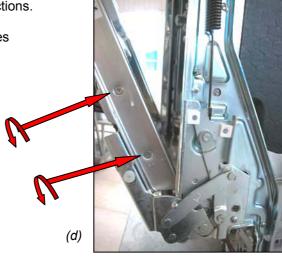
- (a) Remove the external door (see 5.3).
- (b) Remove the screw which secures the plastic support to the door hinge.
- (c) Detach the support from the hinge strut
- (d) Remove the wiring tie and disconnect the beamer.



#### 5.5 Inner door

- (a) Remove the external door (see 5.3), the control panel (see 5.2) and the integrated dispenser (see 5.7).
- (b) Open the door and insert a locking pin (e.g. a screw) into the hole in the hinge, so that the door remains open.
- (c) Remove the wiring ties and detach the electrical connections.(d) Remove the four screws which secure each of the hinges
- (e) Lift the inner door and remove.



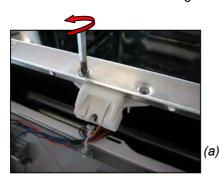


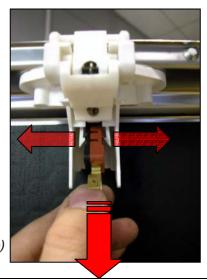
#### When replacing the inner door:

During this operation, the hinges must remain open. The locking pin should therefore be removed only after the inner door has been attached securely to the hinges.

#### 5.6 Latch assembly

- (a) First, remove the control panel (see 5.2), then the two screws which secure the latch assembly to the inner door.
- (b) To remove the microswitch, lever the anchor tabs open and extract the switch from its housing.





Important: To replace the latch ferrule and/or the plate: remove the cap which covers the hole and remove the central screw.

#### 5.7 Integrated dispenser

- (a) First, remove the external door (see 5.3) and detach the electrical connections.
- (b) Remove the six screws which secure the dispenser to the inner door.
- (c) Press the lateral anchor tabs.
- (d) Push the dispenser and remove from the interior.







(b)

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#### 5.8 Thermostat/temperature and turbidity control sensor

- (a) First, remove the plinth (free-standing versions) and the foot support (see 1.2).
- (b) Enlarge the sump hooks and slide the thermostat.
- (c) Remove the electrical connectors.



#### When replacing:

When replacing the thermostat, first lubricate the seal and then position it correctly on the sensor. Insert the assembled parts taking care to ensure that the seal does not enter the sump.

Important: Check that the anchor tabs return to their original position!

#### 5.9 Regeneration solenoid valve

(a) First remove the plinth (free-standing versions) and the foot support (see 1.2).

Important: The softening system will contain a quantity of water. Before removing the solenoid valve, this water should be removed by suction.

- (b) Turn the solenoid valve counter-clockwise until it exits its housing.
- (c) Remove the connectors.



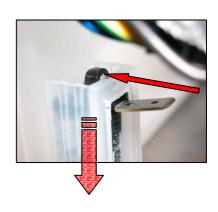


#### When replacing:

When replacing the solenoid valve, lubricate the O-ring and position it correctly on the valve; insert the valve into the seat and turn clockwise until is locks into position.

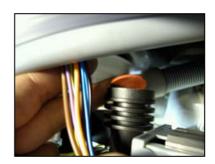
#### 5.10 Salt sensor (if featured)

- (a) First remove the plinth (free-standing versions) and the foot support (see 1.2).
- (b) Detach the electrical connectors from the sensor.
- (c) Using a tool, release the salt sensor from the water softener and slide it downwards.



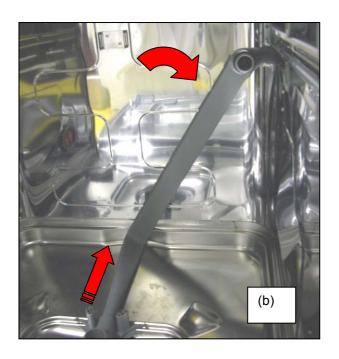
#### 5.11 Drain pump non-return valve

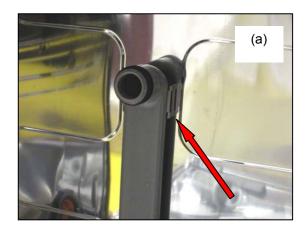
- (a) First remove the plinth (free-standing versions) and the foot support (see 1.2).
- (b) Detach the corrugated tube from the drain pump removing the plastic clamp.
- (c) The membrane valve is mounted on the body of the drain pump.



#### 5.12 Internal feed manifold to the upper spray arm

- (a) From inside the tub, release the two hose wings from the steel plate on the rear panel of the tub.
- (b) Turn it right.
- (c) Extract the internal manifold from the spray arm support column without damaging it.





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## 6 Access from the base

NB: Before laying the dishwasher on a side panel or on the rear panel remove the water in the sump by suction, for example with a syringe, so as it does not reach the pressure switch tubes or the tub.

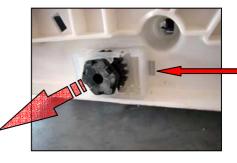
#### 6.1 Anti-flooding device (if featured)

- (a) Remove the bottom panel (if featured) (see 1.3).
- (b) Lift up and release the anchor tab.
- (c) To replace the microswitch, lever the tabs open and remove.

#### 6.2 Adjustable rear foot (built-in versions only)

- (a) Remove any residual water from the sump by suction so that it does not flow into the tub and the pressure switch tubes, then lay the appliance on the rear panel.
- (b) Remove the regulation screw from the bottom panel (see 1.3b).
- (c) Using a tool, detach the foot support and slide away from the base.

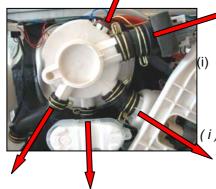
(b)



#### 6.3 Sump assembly

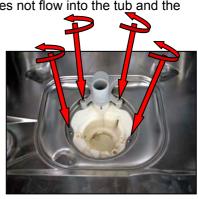
(a) Remove any residual water from the sump by suction so that it does not flow into the tub and the pressure switch tubes when the appliance is laid on the rear panel.

- (b) Remove the plinth (free-standing versions) and the foot support (see 1.2).
- (c) From inside the tub, remove the basket and the lower spray arm (see 3.3).
- (d) Remove the central drain filter (see 3.1) and the large washing filter (see 3.2).
- (e) Remove the two screws which secure the spray arm support column and remove the column.
- (f) Remove the two screws which secure the tub to the sump.
- (g) Remove the bottom panel (if featured) (see 1.3).
- (h) Remove the anti-flooding device (if featured) (see 6.1).

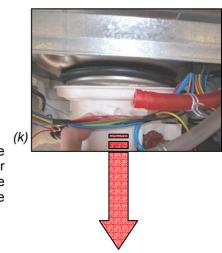


Detach all the hoses (to the heating element, the water softener, the washing motor, the drain pump and the pressure switches).

(i) Remove the thermostat and the O-ring (see 5.8).



(e),(f)



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- (k) Detach the drain pump (see 6.5).
- (I) Pull the sump out, taking care not to damage the tub seal.

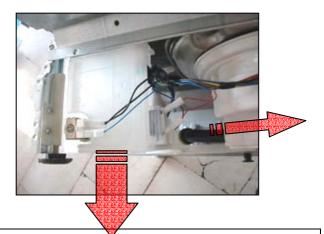
**When replacing:** When replacing the sump, position the seals correctly and lubricate. The seals should, preferably, be fitted first to the "male" section of the coupling.

#### 6.4 Water softening system

- (a) Working from inside the tub, remove the cap of the softening system and the ring located beneath the cap.
- (b) Remove any residual water from the pump by suction so that it does not flow into the tub and the pressure switch tubes.
- (c) Remove the plinth (free-standing versions), the foot support (see 1.2) and the left lateral panel (see 1.4) and lay the appliance on the rear panel and remove the cabinet bottom (see 1.3).
- (d) Detach the hose which connects the softener to the sump and remove any wiring ties. Detach the electrical connectors.
- (e) Pull the water softener outwards.





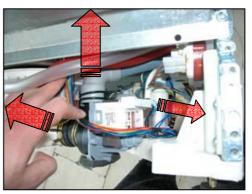


#### When replacing:

When replacing the water softener, position the seal correctly on the lip of the water softener and the seals on the connection with the water fill tank. Lubricate the seals.

#### 6.5 Drain pump

- (a) Remove any residual water from the sump by suction so that it does not flow into the tub and the pressure switch tubes, then lay the appliance on the rear panel.
- (b) First remove the plinth (free-standing versions), the foot support (see 1.2) and the bottom panel (if featured) (see 1.3).



(c)

(c) Working from the front, use pliers to detach the sump hose from the corrugated drain hose; detach the electrical connectors.

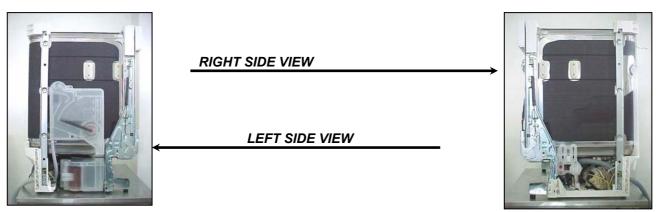
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(d) Using a tool, such as a flat-head screwdriver, detach the two anchor tabs on the body of the pump, one at a time. Care should be taken to avoid damaging or breaking the anchor tabs. Remove the pump from its seat.

**When replacing:** Mount the sleeve correctly to the sump and the drain tube. Check for leaks by performing a test cycle.

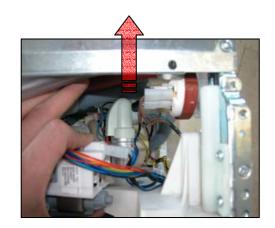
(d)

# 7 Access from the sides



# 7.1 Washing motor capacitor

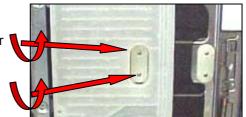
- (a) Remove the worktop (see 1.1), the plinth and the foot support (see 1.2) and the right side panel (see 1.4).
- (b) Remove the protective cap and detach the electrical connectors.
- (c) Pull the capacitor upwards to remove it from its seat in the base.



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#### 7.2 Supports for upper basket wheels

- (a) Remove the worktop (see 1.1), the plinth and the foot support (see 1.2), the appropriate lateral panel (see 1.4) and the upper basket (see 3.4.a).
- (b) From outside the tub, remove the two screws which secure the basket guide wheels in position.



#### 7.3 Lateral uprights

- (a) Remove the worktop (see 1.1), the plinth (free-standing versions) and the foot support (see 1.2), the lower front cross-member (see 7.13) and the appropriate lateral panel (see 1.4).
- (b) Open the door and block in position (see 5.5.b).
- (c) Remove the three lateral screws from inside the tub.
- (d) From the inside of the tub, remove the four screws which secure the upper front cross-member in position.
- (e) Remove the four screws which secure the cross-member at the front (see 7.13.b)
- (f) Remove the two screws which secure the hinge to the inner door (see 5.5.d)
- (g) Detach the earth wire and the hinge strut (see 7.4.e).
- (h) Remove the three lower frontal screws which secure the upright to the base.

(i) Remove the four plastic clip rivets: use a tool to push the central stud of the rivet from the exterior towards the interior of the tub and remove the assembly (when refitting, replace the rivet if damaged).

- (j) Slide the upper cross-member off the upright.
- (k) Remove the cross-member from its seat in the base.

#### 7.4 Hinges and hinge springs

Proceed as follows to replace each hinge:

- (a) Remove the external door (see 5.3), the worktop (see 1.1), the plinth (free-standing versions) and the foot support (see 1.2) and the appropriate lateral panel (see 1.4).
- (b) Use a piece of wire or string to detach the tensioner spring from its seat on the upright.
- (c) Remove the two screws which secure the hinge to the inner door (see 5.5.d)
- (d) Remove the screw which secures the hinge to the upright.
- (e) Pull and detach the hinge pin and the earth wire.

#### When replacing:

Fit the spring to the hinge; then, using a piece of string and a pair of pliers, attach it to the hook on the upright.



(c)



(d)

(i)

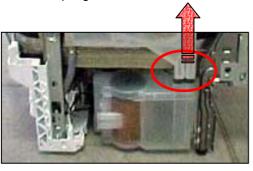
ee-eral

(b

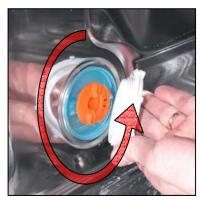
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#### 7.5 Water fill tank

- (a) From inside the tub, unscrew the steam venting ring.
- (b) Remove the worktop (see 1.1), the plinth and the foot support (see 1.2) and the left-hand lateral panel (see 1.4). Detach the tube to the fill solenoid.
- (c) Detach the fill tank from the drying duct (if featured) (see 4.1).
- (d) Pull the fill tank upwards, taking care not to damage the O-rings on the couplings to the water softener and the tub.







#### When replacing:

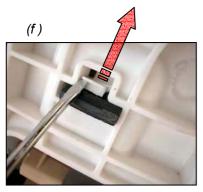
When replacing the water fill tank, lubricate the Orings and position them correctly on the "male" part of the coupling.

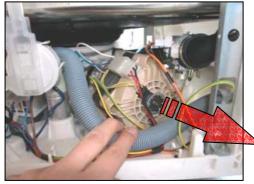
#### 7.6 Washing motor

(a) Remove any residual water from the sump by suction so that it does not flow into the tub and the pressure switch tubes when the appliance is laid on the rear panel.

(d)

- (b) Remove the worktop (see 1.1), the plinth (free-standing versions) and the foot support (see 1.2), the bottom panel (see 1.3) and the anti-flooding device (see 6.1) (if featured) and the right-hand lateral panel (see 1.4).
- (c) Lay the appliance on the rear panel.
- (d) Detach the electrical connections to the start-up capacitor.
- (e) Remove the hoses for the sump and the heating element.
- (f) From below, detach the two rubber motor supports from the base.
- (g) Slide the motor laterally (from the right).







(e)

(g)

#### When replacing:

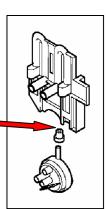
When replacing the motor, reposition the hose clamps correctly and check for leaks.

#### 7.7 Level/anti-overflow pressure switches and support

- (a) Remove the worktop (see 1.1), the plinth (free-standing versions) and the foot support (see 1.2).
- (b) From the front, detach the electrical and hydraulic connections from the pressure switch to be replaced.
- (c) Using a tool, carefully detach the pressure switch from the support and slide it downwards.
- (d) To remove the entire pressure switch support, first remove the right-hand lateral panel (see 1.4).
- (e) Remove the screw which secures the support for the pressure switches to the upright.
- (d) (e)
- (f) Using a tool, release the two plastic anchors from the upright and remove the support.
- (g) If it is necessary to perform electrical tests on the pressure switches: before replacing the switches, detach the hydraulic connections and remove the support (see above), move the switch to the front for testing.



Reposition the pressure switches correctly on the support and re-fit the hydraulic connections. Ensure that the rubber elements between the pressure switch and the support are correctly inserted.



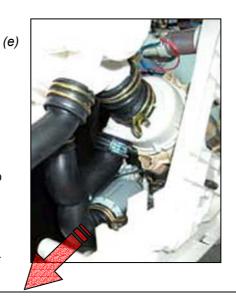
#### 7.8 Tube-enclosed heating element

- (a) Remove any residual water from the sump by suction so that it does not flow into the tub and the pressure switch tubes when the appliance is laid on the rear panel.
- (b) Remove the plinth (free-standing versions) and the foot support (see 1.2), the bottom panel (see 1.3), the anti-flooding device (see 6.1) (if featured), and the right-hand lateral panel (see 1.4), then lay the appliance on the rear panel.





- (c) Detach the electrical connections.
- (d) From the right-hand side, detach the hose connected to external manifold.
- (e) From below, detach the hose connected to the sump.
- (f) Form the right-hand side, slide out the heating element.



#### When replacing:

Ensure that the hoses are fitted correctly and that the hose clamps are secured tightly.

#### 7.9 Fill solenoid valve (if featured)

(a) Disconnect the appliance from the water supply. Unscrew the fill hose from the solenoid valve.

#### Important: residual water may spill from the hose.

- (b) Remove the two rear screws which secure the valve to the base.
- (c) Remove the left-hand lateral panel (see 1.4) and detach the solenoid valve from the hose to the water fill tank.
- (d) From the left-hand side, grip the solenoid valve and, while at the same time pushing it from the rear, turn it clockwise until it is released.







(d)

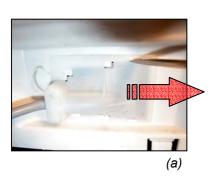
#### 7.10 Power cable and terminal block with integrated suppressor

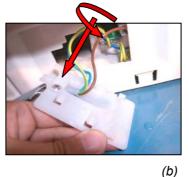
Proceed as follows to replace the power cable:

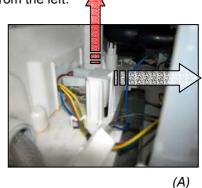
- (a) Remove the cover from the terminal block (located in the rear section). To do so, use a tool to release the two plastic tabs and slide the terminal block to the right.
- (b) Loosen the screw on the cable clamp, detach the electrical connections and pull the power cable free.

Proceed as follows to replace the integrated terminal block:

- (A) Remove the worktop (see 1.1), the plinth (free-standing versions) and the foot support (see 1.2) and the left-hand lateral panel (see 1.4), then lever the anchor tab towards the centre of the appliance, and lift the terminal block.
- (B) Detach the electrical connections and remove the terminal block from the left.







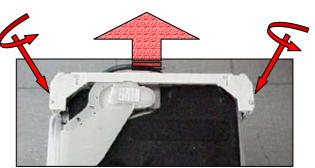
#### 7.11 Lower front cross-member

- (a) Remove the worktop (see 1.1) the plinth (free-standing versions) and the foot support (see 1.2) and both lateral panels (see 1.4).
- (b) Remove the four screws which secure the cross-member in position.



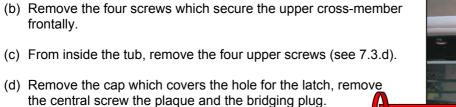
#### 7.12 Upper rear cross-member

- (a) Remove the worktop (see 1.1), the plinth (see 1.2) and both lateral panels (see 1.4).
- (b) Remove the two upper screws which secure the cross-member to the tub.
- (c) Detach the plastic clips which secure the cross-member to the lateral sheet metal reinforcement plates.
- (d) Pull the cross-member upwards and away from the rear uprights



#### 7.13 Upper front cross-member

(a) Remove the worktop (see 1.1), the plinth (see 1.2) and both lateral panels (see 1.4).



(e) Pull the upper cross-member upwards and away from the lateral uprights.



(b)

Important: To replace the latch ferrule and/or the plate, which are secured to the tub, simply remove the central screw.

# 8 Replacing the tub

- (a) From inside the tub, remove the following:
- Lower basket
- Upper basket
- Wheel guides for the upper basket
- Steam venting ring/sealing ring
- Softening unit cap and ring/sealing ring
- Latch cover
- Drain filter
- Washing filter
- Lower spray arm
- Spray arm support column
- Internal feed manifold
- (b) From outside the tub, remove the following:
  - Upper front cross-member
  - Upper rear cross-member
  - Upper basket wheel supports
  - Door hinge springs
  - Door hinges
  - Drying duct/fan

- (c) Remove the following:
- Worktop (free-standing versions)
- Door assembly
- Plinth (free-standing versions)
- Foot support
- Lower cross-member
- Lateral panels
- (d) From inside the tub, remove the two screws which secure the sump.
- (e) Remove the six screws which secure the hinge uprights to the base.
- (f) Remove the two screws which secure the rear uprights to the base and remove the uprights.
- (g) Lift the tub assembly and remove from the base.

# 9 Replacing the base

- (a) Remove any residual water from the sump by suction so that it does not flow into the tub and the pressure switch tubes when the appliance is laid flat.
- (b) Remove the following:
- Worktop (free-standing versions)
- Plinth (free-standing versions)
- Foot support
- Front panel
- Lower cross-member
- Lateral panels
- Adjustable feet
- (c) Lay the appliance on the rear panel.
- (d) Remove the following from the base:
- Adjustable central rear foot (built-in versions only)
- Bottom panel (if featured)
- Anti-flooding device (if featured)
- Washing motor capacitor
- Suppressor (if featured)
- Fill solenoid valve

- (e) Detach the rubber washing motor supports.
- (f) Remove the screws which secure the front and rear uprights.
- (g) Detach the clamps in the rear section, which secure the uprights.
- (h) Pull the base outwards (towards you).