

Washing Machine

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INTRODUCTION



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Health & Safety

Dismantling of washing machines doesn't include any harmful steps. Nonetheless workers should work in pairs and wear personal protection equipment like gloves, goggles, apron and robust shoes.

Note:

This is a general guide for most front loading washing machines. As the construction of washing machines can differ, the dismantling steps mentioned below can vary in their order. However, the described steps show what parts the removal should focus on. The most important parts are: the motor, the water pump containing copper coils and the capacitor.

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TOOLS:

- Several screwdrivers (T1) (1)
- Flathead Screwdriver (T2) (1)
- Hammer (T3) (1)
- Side cutter (T4) (1)
- Pliers (T5) (1)
- Industrial Scissors (T6) (1)
- Cutter (T7) (1)
- Power Screw Driver (T8) (1)
- Industrial scale (T9) (1)
- Pipe Wrench (1)
- Socket Wrench set (1)
- Ring / open-end spanners (1)

Step 1 — Disassembling Washing Machines



 Start with the washing machine in an upright position.

Step 2



 Cut off the power supply cable.
Dispose of the plug separately (mixed waste).





Cut off and remove the water hoses (careful – they might still contain water!).

Step 4





• Turn the machine upside down and open the bottom panel (if there is one).



 Remove the rear cover by unscrewing it.

Step 6





Remove the V-belt.



Unplug all wires.

Step 8







Unscrew the motor from the outside and the inside; then, remove it.





Unscrew and remove the water pump.

Step 10





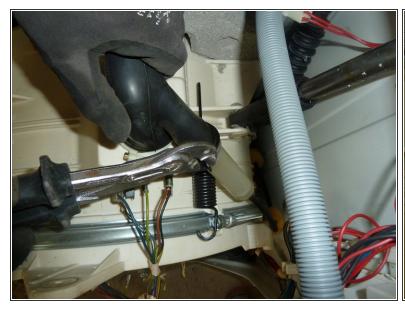
Remove the copper coils from the inside of the water pump.





Unscrew and remove the aluminium drive wheel.

Step 12





Cut and remove the springs holding the drum.



• Unplug and remove the water pipe.

Step 14



Unscrew the buffer.



Remove the bottom front cover.

Step 16



Remove the lint collector and unscrew its fixture.



Remove all internal water hoses.

Step 18



Unscrew the back cover.





Unclip all wires.

Step 20



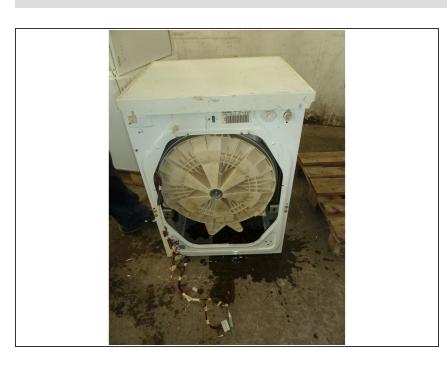


Remove the switch panel.



Unscrew the grounding wire.

Step 22



Turn the machine bottom down again.



Remove the washing agent drawer.

Step 24





Unscrew and remove the door.



 Unscrew the washing agent drawer chest.

Step 26



Unscrew the plastic part from the inside and outside.



Remove the remaining springs that hold the drum.

Step 28



Unscrew and remove the metal bar.





Unscrew and remove the switchboard.

Step 30





Unclip and cut all wires.



Remove plastic parts.

Step 32



Remove the magnet valves.





Unscrew and remove the pressure switch.

Step 34



Unscrew the door fixture.



 Remove the slim spring around the door opening. (It holds the rubber sealing in place).

Step 36



Now, remove the rubber sealing.





 Remove the capacitor and unclip all wires, being careful not to touch the terminals as this could lead to a potentially dangerous electrical discharge.

Step 38





- Tilt the machine and remove the drum.
- Now, the metal case should be empty.





Remove the concrete weight.

Step 40





Again, remove the spring around the drum, and the rubber sealing.





Unscrew and remove the water hose.

Step 42



Remove metal fixtures.



Continue dismantling the fixture around the drum.

Step 44



Unscrew and remove the metal belt around the plastic fixture around the drum.







Open and remove the case around the drum.

Step 46





Unscrew and remove the heating element.





Remove all metal parts from the plastic case.

Step 48



 Separate the remaining materials according to their type and go on with the appropriate data sheet (e.g.

aluminium, ferrous metals, plastic, further PWBs, etc.).

 Make sure the plastic parts are completely free of metal pieces.