

**LG Electronics Inc.**

| For U.K. Customer | |
|---|---|
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P/No.: 3828ER3034X

# Washing Machine
## OWNER'S MANUAL

**WD-14311RD/WD-14316RD**
**WD-12311RD/WD-12316RD**

Thank you for buying a
LG Fully Automatic Washing machine.
Please read your owner's manual carefully, it provides instructions on safe installation, use and maintenance.
Retain it for future reference.
Record the model and serial numbers of your washing machine.

# Product Feature



- **Direct Drive System**
  The advanced Brushless DC motor directly drives the drum without belt and pulley.



- **Water Circulation**
  Spray detergent solution and water onto the load over and over. Clothes are soaked more quickly and thoroughly during wash cycle. The detergent suds can be removed more easily by the water shower during rinse cycle. The water circulation system uses both water and detergent more efficiently.



- **Built-in Heater**
  Internal heater automatically heats the water to the best temperature on selected cycles.



- **Child Lock**
  The Child lock prevents children from pressing any button to change the settings during operation.




- **Jumbo drum**
  LG's jumbo drum can wash about 40% more load than conventional washing machines. A bigger drum improves the wash performance.



- **More economical by Intelligent Wash System**
  Intelligent Wash System detects the amount of load and water temperature, and then determines the optimum water level and washing time to minimize energy and water consumption.



- **Low noise speed control system**
  By sensing the amount of load and balance, it evenly distributes load to minimize the spinning noise level.



- **Auto Restart**
  If the washing machine is turned off by a power failure, it will restart automatically from the position it stopped at adjusting accordingly.

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# Warnings

**READ ALL INSTRUCTIONS BEFORE USE**

**⚠ WARNING!** **For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, or to prevent property damage, personal injury, or loss of life.**

## IMPORTANT SAFETY INSTRUCTIONS

**WARNING :** To reduce the risk of fire, electric shock, or injury to persons when using the washer, follow basic precautions, including the following:

- Do not install or store the washer where it will be exposed to the weather.
- Do not tamper with controls.
- Do not repair or replace any part of the washer or attempt any servicing unless specifically recommended in the user-maintenance instructions or published user-repair instructions that you understand and have the skills to carry out.
- Keep the area underneath and around your appliances free of combustible materials such as lint, paper, rags, chemicals, etc.
- Close supervision is necessary if this appliance is used by disable or young children. Do not allow children to play on, with, or inside this or any other appliance.
- Do not leave the washer door open. An open door could entice children to hang on the door or crawl inside the washer.
- Never reach into washer while it is moving. Wait until the drum has completely stopped.
- The laundry process can reduce the flame retardant of fabrics.
- Do not wash or dry articles that have been cleaned in, washed in, soaked in, or spotted with combustible or explosive substances (such as wax, oil, paint, gasoline, degreasers, dry-cleaning solvents, kerosene, etc.) which may ignite or explode. Oil may remain in the tub after a whole cycle resulting in fire during drying. So, do not load oiled clothes.
- To avoid such a result, carefully follow the garment manufacturer's wash and care instructions.
- Do not slam the washer door closed or try to force the door open when locked. This could result in damage to the washer.
- To minimize the possibility of electric shock, unplug this appliance from the power supply or disconnect the washer at the household distribution panel by removing the fuse or switching off the circuit breaker before attempting any maintenance or cleaning.
- Never attempt to operate this appliance if it is damaged, malfunctioning, partially disassembled, or has missing or broken parts, including a damaged cord or plug.
- dryer is intend only for drying textile material in water.
- When a product was under water, Please call service center. The risk of electric shock and fire.

## SAVE THESE INSTRUCTIONS

### GROUNDING INSTRUCTIONS

This appliance must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinance.

- Do not use an adapter or otherwise defeat the grounding plug.
- If you don't have the proper outlet, consult an electrician.

**WARNING :** Improper connection of the equipment-grounding conductor can result in risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance - if it does not fit the outlet, have a proper outlet installed by a qualified electrician.

# Warnings

**To minimize the risk of fire in a tumble dryer, the following should be observed:**

- Items that have been spotted or soaked with vegetable or cooking oil constitute a fire hazard and should not be placed in a tumble dryer.

  Oil-affected items can ignite spontaneously, especially when exposed to heat sources Such as in a tumble dryer. The items become warm, causing an oxidation reaction in the oil. Oxidation creates heat. If the heat cannot escape, the items can become hot enought to catch fire. Piling, stacking or storing oil-affected items can prevent heat from escaping and so create a fire hazard.

  If it is unavoidable that fabrics that contain vegetable or cooking oil or have been contaminated by hair care products be placed in a tumble dryer they should first be washed in hot water with extra detergent-this will reduce, but not eliminate, the hazard. Washed in hot water with extra detergent-this will reduce, but not eliminate, the hazard. The 'cool down' cycle of tumble dryers should be used to reduce the temperature of the items. They should not be removed from the tumble dryer or piled or stacked while hot.
- Items that have been previously cleaned in, washed in, soaked in or spotted with petro/gasoline, dry-cleaning solvents or other flammable or explosive substances should not be placed in a tumble dryer.
  Highly flammable substances commonly used in domestic environments include acetone, denatured alcohol, petrol/gasoline, kerosene, spot removers (some brands), turpentine, waxes and was removers.
- Items containing foam rubber (also known as latex foam) or similarly testured rubber. like materials should not be dried in a tumble dryer on a heat setting. Foam rubber materials can, when heated, produce fire by spontaneous combustion.

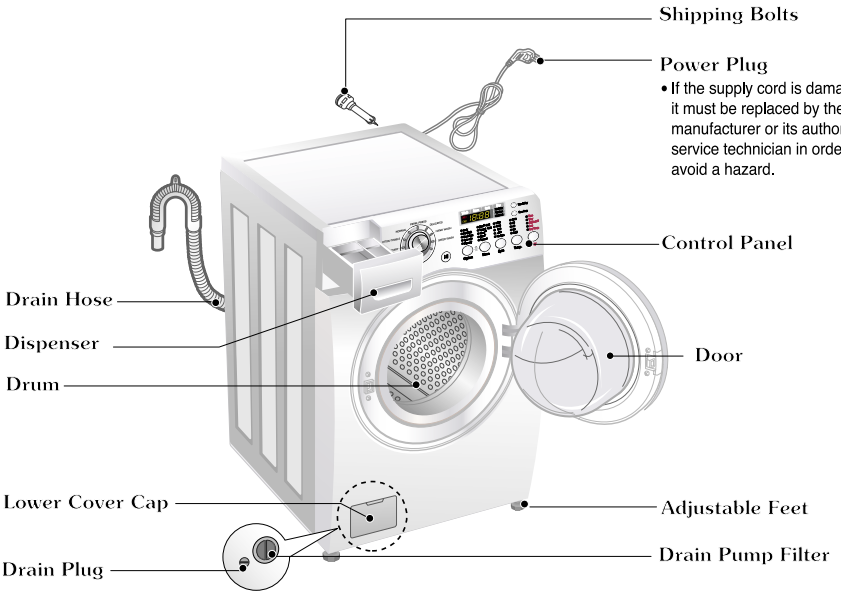
- Fabric softeners or similar products should not be used in a tumble dryer to eliminate the effects of static electricity unless this practice is specifically recommended by the manufacturer of the fabric softener or product.
- Undergarments that contain metal reinforcements should not be placed in a tumble dryer.

  Damage to the tumble dryer can result if metal reinforcements come loose during drying. When available a drying rack could be used for such items.

- Plastic articles such as shower caps or babies waterproof napkin covers should not be placed in a tumble dryer.

- Rubber-backed articles, clothes fitted with foam rubber pads, pillows, galoshes and rubber-coated tennis shoes should not be placed in a tumble dryer.

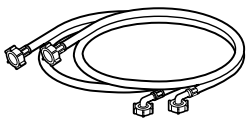
# Specification



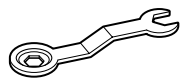

| | |
|---|---|
| ■ Name | : Front loading washing machine |
| ■ Power supply | : 220-240V~, 50Hz |
| ■ Size | : 600mm(W)×645mm(D)×850mm(H) |
| ■ Weight | : 66kg |
| ■ Wash capacity/Max. Watt | : 8kg(2100W) |
| ■ Dry capacity/Max. Watt | : 4kg(1500W) |
| ■ Spin speed | : No Spin/400/800/1000/1200 [WD-12311RD/WD-12316RD]<br>No Spin/400/800/1000/1400 [WD-14311RD/WD-14316RD] |
| ■ Water consumption | : 144 ℓ (18 ℓ / kg )[WD-14311RD/WD-14316RD]<br>148 ℓ (18.5 ℓ / kg ) [WD-12311RD/WD-12316RD] |

※ The appearance and specifications may be varied without notice to raise the units quality.

## ■ Accessories



Inlet hose(1EA) ※ Option : Hot/Cold(2EA)



Spanner

# Installation

**Install or store where it will not be exposed to temperatures below freezing or exposed to the weather.**
**Properly ground washer to conform with all governing codes and ordinances.**
**The base opening must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.**

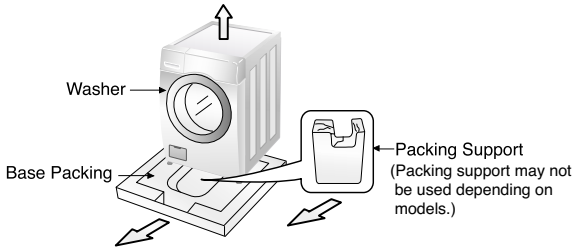
**In countries where there are areas which may be subject to infestation by cockroaches or other vermin, pay particular attention to keeping the appliance and its surroundings in clean condition at all times.**
**Any damage which may be cause by cockroaches or other vermin will not be covered by the appliance guarantee.**

## ■ Transit bolts

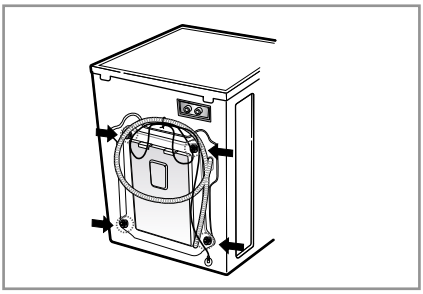
The appliance is fitted with transit bolts to prevent internal damage during transport.

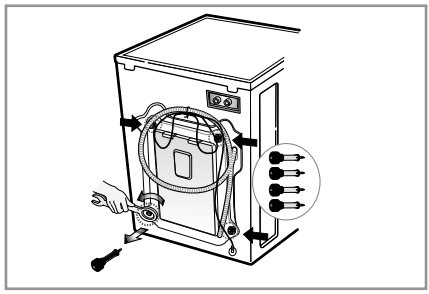
- Packing and all transit bolts must be removed before using the washer.

When unpacking the base, be sure to remove the additional packing support in the middle of the base packing.




## ■ Removing transit bolts





**1**. To prevent internal damage during transport, the special 4 bolts are locked. Before operating the washer, remove the bolts along with the rubber bungs.

- If they are not removed, it may cause heavy vibration, noise and malfunction.

**2**. Unscrew the 4 bolts with the spanner supplied.

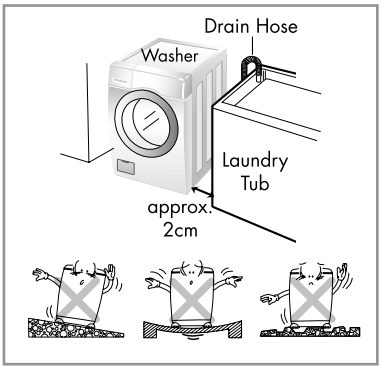
**3**. Take out the 4 bolts along with the rubber bungs by slightly twisting the bung. Keep the 4 bolts and the spanner for future use.

- Whenever the appliance is transported, the transit bolts must be refitted.

**4**. Close the holes with the caps supplied.

# Installation

## ■ Installation place requirement



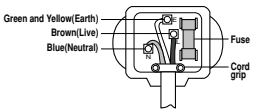

**Level floor :**
Allowable slope under entire washer is 1˚
**Power outlet :**
Must be within 1.5 meters of either side of location of washer. Do not overload the outlet with more than one appliance.
**Additional Clearance :**
For wall, door and floor modeling is required.
(10cm : rear /2cm:right & left side)
Do not place or store laundry products on top of washer at any times.
They can damage the finish or controls.

## ■ Positioning

Install the washer on a flat hard floor.
Make sure that air circulation around the washer is not impeded by carpets,rug etc.
- Never try to correct any unevenness in the floor with pieces of wood, cardboard or similar materials under the washer.
- If it is impossible to avoid positioning the washer next to a gas cooker or coal burning stove,an insulating(85x60cm) covered with aluminum foil on the side facing the cooker or stove,must be inserted between the two appliance.
- The washer must not be installed in rooms where the temperature can drop below 0°C.
- Please ensure that when the washer is installed, it is easily accessible for the engineer in the event of a breakdown.
- With the washer installed adjust all four feet using the transit bolt spanner provided ensuring the appliance is stable, and a clearance of approximately 20mm is left between the top of the washer and the underside of the work-top.

## ■ BS Plug Safety Details (For U.K. User)

**IMPORTANT**
THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:
**GREEN AND YELLOW: EARTH**
**BLUE: NEUTRAL**
**BROWN: LIVE**
This appliance must be earthed




As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Green and Yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol ⏚ or coloured Green or Green and Yellow.
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Red.
If a 13 amp (BS 1363) plug is used, fit a 13 amp BS 1362 fuse.

# Installation

## ■ Electrical connection

**1**. Do not use an extension cord or double adapter.
**2**. If the supply cord is damaged, it must be replaced by the manufacturer or its service agents or similarly qualified person in order to avoid a hazard.
**3**. Always unplug the machine and turn off the water supply after use.
**4**. Connect the machine to an earthed socket in accordance with current wiring regulations.
**5**. The appliance must be positioned so that the plug is easily accessible.

- Repairs to the washing machine must only be carried out by qualified personnel. Repairs carried out by inexperienced persons may cause injury or serious malfunctioning. Contact your local service center
- Do not install your washing machine in rooms where temperatures below freezing may occur. Frozen hoses may burst under pressure. The reliability of the electronic control unit may be impaired at temperatures below freezing point.
- If the appliance is delivered in the winter months and temperatures are below freezing : Place the washing machine at room temperature for a few hours before putting it into operation.

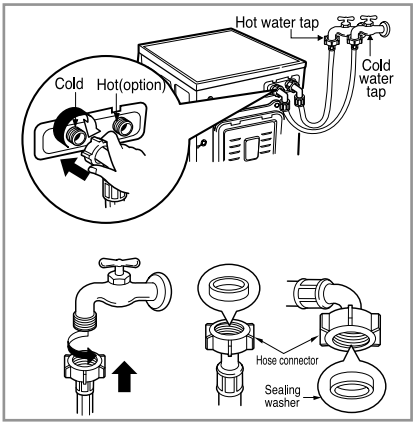
**CAUTION**

**CAUTION concerning the Power Cord**

Most appliances recommend they be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.
Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.
Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

## ■ Washing Machine is to be connected to the water mains using new hose-sets and that old hose-sets should not be used.

## ■ Connecting water supply hose




▶ *Water supply pressure must be between 30kPa and 1000kPa (0.3~10kgf/cm²)*
▶ *Don't strip or crossthread when connecting Inlet hose to the valve.*
▶ *If the water supply pressure is more than 1000kPa, a decompression device should be installed.*

- Two rubber seals are supplied with the water inlet hoses. They are used for preventing water leaks.
- Make sure the connection to taps is tight enough.
- Periodically check the condition of the hose and replace the hose if necessary.
- Make sure that there is no kink on the hose and that it is not crushed.

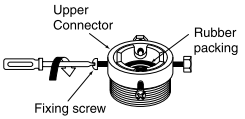
▶ ***When your washer has two valves.***

- The Inlet hose which has red connector is for the hot water tap.
- If the washer has two valves, the energy is saved by using hot valve.

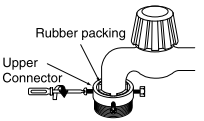
# Installation

## ■ Normal Tap without thread & screw type inlet hose

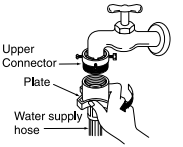
***1.*** Unscrew the fixing screw to attach the tap.




***2.*** Push the connector up till the rubber packing is in tight contact with the tap. Then tighten the 4 screws.

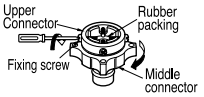



***3.*** Push the water supply hose vertically upwards so that the rubber packing within in the hose can adhere completely to the tap and then tighten it by screwing it to the right.

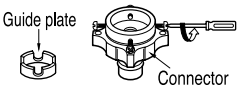



## ■ Normal Tap without thread & one touch type inlet hose

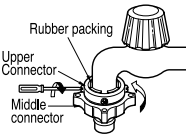
***1.*** Untighten the upper connector screw.




• In case the diameter of the tap is large remove the guide plate.

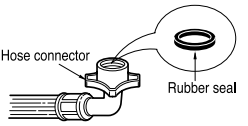



***2.*** Push the upper connector up till the rubber packing is in tight contact with the tap. Then tighten the 4 screws.

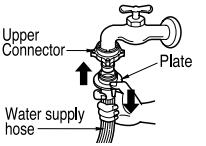



• Turn the middle connector not to have water leaked.

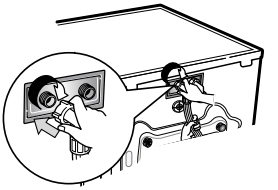
• Make sure that the rubber seal is inside the hose connector.




***3.*** Connect the water supply hose to the middle connector, pushing the plate down.

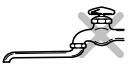



• To separate the water supply hose from the middle connector shut off the tap. Then pull the inlet hose down, pushing the plate down.



• Your machine comes with only cold water connection.

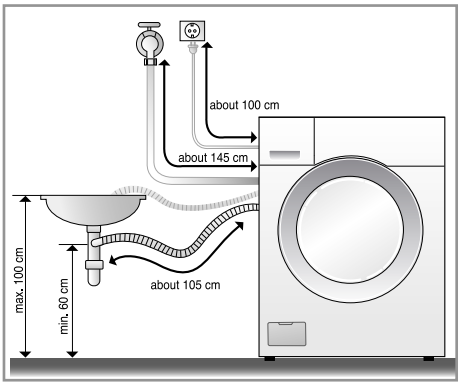
• Make sure that there are no kinks in the hose and that it is not crushed.

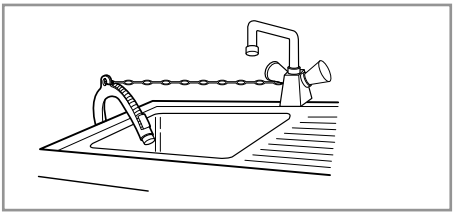
| Used the horizontal tap | |
|---|---|
| Horizontal tap |  |
| Extension tap |  |
| Square tap |  |

# Installation

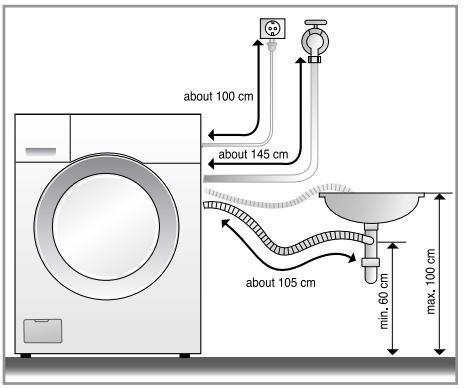
This equipment is not designed for maritime use or for use mobile installations such as caravans, aircraft etc.
Turn off the stopcock if the machine is to be left for any length of time (e.g. holiday), especially if there is no floor drain(gully) in the immediate vicinity.
When disposing of the appliance, cut off the mains cable, and destroy the plug Disable the door lock to prevent young children being trapped inside.
Packaging material (e.g. Films, Styrofoam) can be dangerous for children. There is a risk of suffocation ! Keep all packaging well away from children

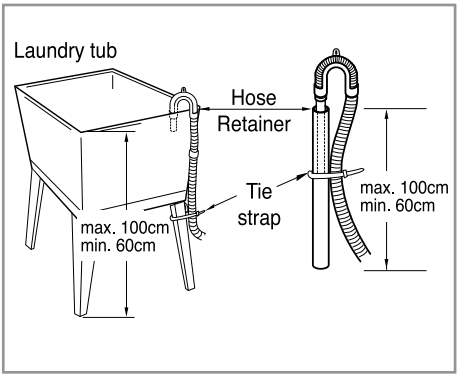
## ■ Installation of drain hose



- When installing the drain hose sink, secure it tightly with a string.
- Proper securing of the drain hose will protect the floor from damage due to water leakage.

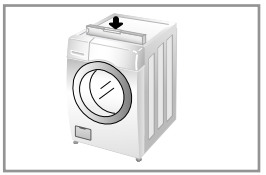


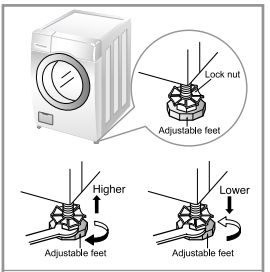



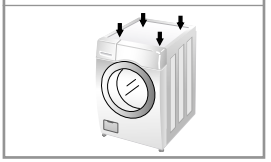

- The drain hose should not be placed higher than 100 cm above the floor.
- Proper securing of the drain hose will protect the floor from damage due to water leakage.
- When the drain hose is too long, do not force back into the washer. This will cause abnormal noise.

# Installation

## ■ Level adjustment





**1.** Adjusting the washing machine level properly prevents excessive noise and vibration.
Install the appliance on a solid and level floor surface, preferably in a corner of the room.

**NOTE** Timber or suspended type flooring may contribute to excessive vibration and unblance errors.

**2.** If the floor is uneven, adjust the adjustable feet as required. (do not insert pieces of wood etc. under the feet)
Make sure that all four feet are stable and resting on the floor and then check that the appliance is perfectly level. (use a spirit level)

※ ***After the washer is level, tighten the lock nuts up towards of the base of the washer. All lock nuts must be tightened.***

**NOTE** In the case that the washing machine is installed on a raised platform, it must be securely fastened in order to eliminate the risk that it might fall off.

※ ***Diagonal Check***

***When pushing down the edges of the washing machine top plate diagonally, the machine should not move up and down at all. (Please, check both of two directions)***
***If machine rocks when pushing the machine top plate diagonally, adjust the feet again.***

### ■ Concrete floors

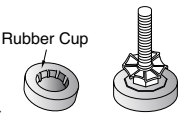
- The installation surface must be clean, dry and level.
- Install washer on a flat hard floor.

### ■ Tile floors (Slippery floors)

- Position each foot on the Tread Mate and level the machine to suit. (Cut Tread Mate into 70x70 mm sections and stick the pieces on to the dry tile where machine is to be placed.)

※ ***Tread Mate is a self adhesive material used on ladders & steps that prevents slipping.***

### ■ Wooden floors (Suspended floors)




- Wooden floors are particularly susceptible to vibration.
- To prevent vibration we recommend you place rubber cups under each foot, at least 15mm thick under the washer, secured to at least 2 floor beams with screws.
- If possible install the washer in one of the corners of the room, where the floor is more stable.

※ ***Insert the rubber cups to reduce vibration.***
※ ***You can obtain the rubber cups (p/no.4620ER4002B) from the LG spares dept.***

**Important!**

- Proper placement and levelling of the washer ensure long,regular and reliable operation.
- The washer must be absolutely horizontal and stand firmly in position.
- It must not "Seesaw" across corners under load.
- The installation surface must be clean, free from floor wax and other lubricant coatings.
- Do not let the feet of the washer get wet. If feet of the washer get wet, slipping may occur.

# Care before washing

## ■ Before the first washing

Select a cycle (COTTON 60°C, add a half load of detergent) allow the unit to wash without clothing.

This will remove residues from the drum that may have been left during manufacturing.

## ■ Caring before washing

### 1. Care Labels

Look for a care label on your clothes. This will tell you about the fabric content of your garment and how it should be washed.

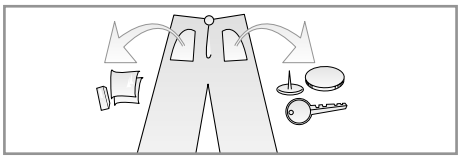
### 2. Sorting

To get the best results, Sort clothes into loads that can be washed with the same wash cycle. Water temperature and spin speed and different fabrics need to be washed in different ways. Always sort dark colors from pale colors and whites. Wash separately as dye and lint transfer can occur causing discoloration of white etc. If possible, do not wash heavily soiled items with lightly soiled one.

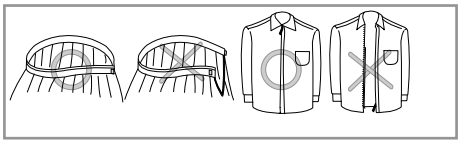
| | |
|---|---|
| Soil (Heavy, Normal, Light) | Separate clothes according to amount of soil. |
| Color (White, Lights, Darks) | Separate white fabrics from colored fabrics. |
| Lint (Lint producers, Collectors) | Wash lint producers and lint collectors separately. |

### 3. Caring before loading

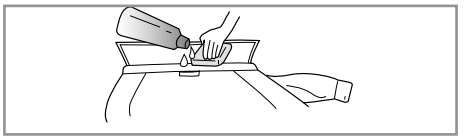
■ **Combine large and small items in a load. Load large items first. Large items should not be more than half the total wash load.**
**Do not wash single items. This may cause an out-of-balance load. Add one or two similar items.**



• Check all pockets to make sure that they are empty. Items such as nails, hair clip, matches, pens, coins and keys can damage both your washer and your clothes.



• Close zippers, hooks and strings to make sure that these items don't snag on other clothes.

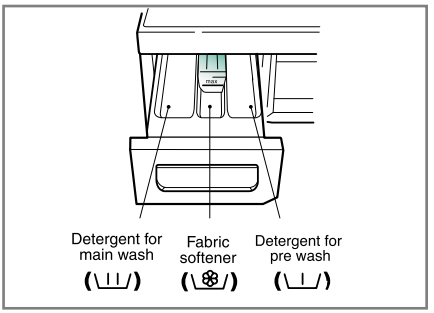


• Pre treat dirt and stains by brushing a little detergent dissolved in water onto stains like collars and cuffs to help shift dirt.

# Adding detergent

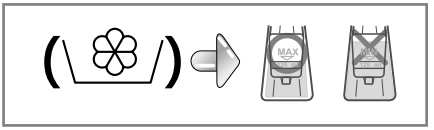
## ■ Adding detergent and fabric softener

### 1. The Dispenser Drawer




- Main wash only U
- Pre Wash + Main Wash U

### 2. Adding Fabric Softener



- Do not exceed the maximum fill line. Overfilling can cause early dispensing of the fabric softener which could stain clothes.
- Do not leave the fabric softener in the detergent drawer for more than 2 days. (Fabric softener could harden)
- Softener will automatically be added during the last rinse cycle.
- Do not open the drawer when water is supplied.
- Solvents(benzene, etc) are not allowable.

**NOTE** Do not pour fabric softener directly on the cloths

### 3. Detergent dosage

- *The detergent should be used according to the instruction of the detergent manufacture.*
- *If too much detergent is used more than the recommended amount, too many suds can occur and this will decrease the washing result or cause heavy load to the motor. (Causing a malfunction)*
- *Use powder detergent only for the front loading washer.*
- Detergent usage may need to be adjusted for water temperature, water hardness, size and soil level of the load. For best results, avoid oversudsing.

### 4. Water softener

- A water softener, such as Calgon can be used to cut down on the use of detergent in extremely hard water areas. Dispense according to the amount specified on the packaging. First add detergent and then the water softener.
- Use a quantity of detergent as for soft water.

**✻ Tips**

**Full load : according to manufacturer's recommendation.**
**Part load : 3/4 of the normal amount.**
**Minimum load : 1/2 of full load.**

- Detergent is flushed from the dispenser at the beginning of the cycle.

# Function

## ■ Recommended courses according to the laundry type

| Program | Fabric Type | Proper Temp. (Option) | Option | Maximum Load | Time in Minutes |
|---|---|---|---|---|---|
| Cotton | Color fast garments (shirts, night dresses, pajamas...)and lightly soiled white cotton (underwear...) | 60˚C (Cold, 30˚C, 40˚C, 95˚C) | Soak Pre Wash Rinse+Spin Spin Only Dry Only Intensive | Rating | 110 |
| Cotton-Eco | Laundry type is the same in Cotton. | 60˚C (40˚C) | | Rating | 120 |
| Synthetic | Polyamide, Acrylic, Polyester. | 40˚C (Cold, 30˚C,60˚C) | | 4.0kg | 75 |
| Delicate | Delicate laundry easily damaged. | 30˚C (Cold, 40˚C) | Rinse+Spin Spin Only Intensive | 3.0kg | 65 |
| Wool/Silk | Machine washable woolens with pure new wool only. | 30˚C (Cold, 40˚C) | | 2.0kg | 55 |
| Hand Wash | “Hand Wash” marked delicate and wool laundry. | Cold (30˚C,40˚C) | | 2.0kg | 50 |
| Quick 30 | Colored Landry which is lightely soiled fast. | 30˚C (Cold, 40˚C) | Rinse+Spin Spin Only Dry Only Intensive | 5.0kg | 30 |
| Duvet | Cotton bedding with filling, duvet, pillow, blanket, sofa cover with light filling. | Cold (30˚C, 40˚C) | Rinse+Spin Spin Only Intensive | 1 king size (9 Tog) | 60 |

✻ Water Temperature : Select the water temperature to the wash cycles. Always follow garment manufacture’s care label or instructions when laundering.

✻ Intensive : If the laundry is heavily soiled “Intensive” option is effective.

✻ Program setting with “Intensive” option for test in accordance or in conformity with EN60456 and IEC 60456.

✻ Pre Wash : If the laundry is heavily soiled, “Pre Wash” Cotton is recommended. Pre Wash is available in Cotton, Cotton-Eco and Synthetic Program.

# How to use washer




## 1. Cotton automatically selected upon power on.

- Press the **Power(⏻)** button to start.
- Press the **Start/Pause(⏯)** button.
- Initial condition
  - *Wash : Main wash*
  - *Rinse : 3 times*
  - *Spin :*
    *[WD-14311RD/WD-14316RD]*
    *1400 rpm*
    *[WD-12311RD/WD-12316RD]*
    *1200 rpm*
  - *Water temperature : 60°C*
  - *Program : Cotton*

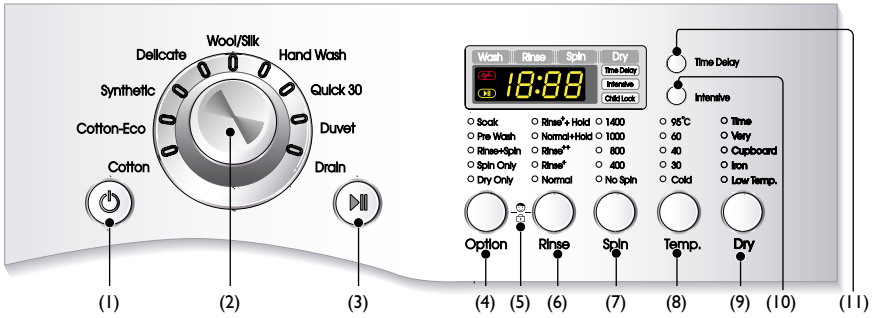
## 2. Manual Selecting

- Press the **Power(⏻)** button to start.
- Select the conditions which you want to use, by pressing each button.

*For selecting the each conditions, please refer to the page16~page22*

- Press the **Start/Pause** button.

# How to use washer




(1) Button : Power
(2) Dial : Program
(3) Button : Start/Pause
(4) Button : Option
(5) Child lock
(6) Button : Rinse
(7) Button : Spin
(8) Button : Temperature
(9) Button : Dry
(10) Button : Intensive
(11) Button : Time Delay

## Power



### 1. Power

- Press the Power( ) button to turn power on and off.
- To cancel the **Time Delay** function, the Power( ) button should be pressed.

### 2. Initial Program

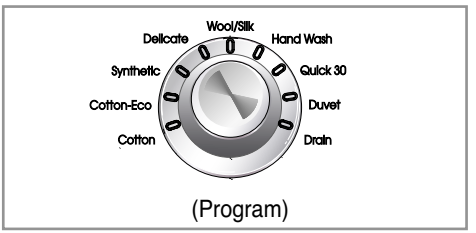
- When the Power( ) button is pressed, the washer is ready for Cotton program. And the other initial conditions as follows.
- So, if you want to advance into the washing cycle without changing the program, just press **Start/Pause( )** button and then the washer will proceed.

***Initial program***

***[WD-14311RD/WD-14316RD]***
***-Cotton Program / Main Wash / Normal Rinse / 1400 rpm / 60℃***

***[WD-12311RD/WD-12316RD]***
***-Cotton Program / Main Wash / Normal Rinse / 1200 rpm / 60℃***

## Program




(Program)

- 9 programs are available according to the laundry type.

| | |
|---|---|
| ***- Cotton*** | ***- Hand Wash*** |
| ***- Cotton-Eco*** | ***- Quick 30*** |
| ***- Synthetic*** | ***- Duvet*** |
| ***- Delicate*** | ***- Drain*** |
| ***- Wool/Silk*** | |

- Lamp will light up to indicate selected program.
- When **Start/Pause( )** button is pressed, the Cotton program is automatically selected.
- By turning the Program dial, the program is selected in order of "Cotton - Cotton-Eco - Synthetic - Delicate - Wool/Silk - Hand Wash Quick 30 - Duvet - Drain".

***Regarding to the laundry type for each program Please refer to the page14.***

# How to use washer

## Start/Pause



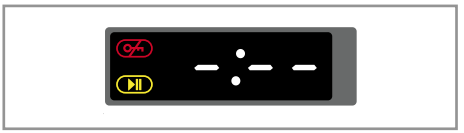
### 1. Start

- This **Start**/**Pause** button is used to start wash cycle or pause the wash cycle.

### 2. Pause

- If temporary stop of wash cycle is needed, press "**Start**/**Pause**" button.
- When in Pause, the power is turned off automatically after 4 minutes.
- **NB.** The door will not open before 1 to 2 minutes when Pause is selected, or at the end of the wash cycle.

### 3. Detect



- While the "Detect" is shown in the display the machine rotates slowly and detects how many laundries are loaded in the drum. It will take a few seconds.
- Available in Cotton, Cotton-Eco.

## Option




- By pressing the option button, only one option function be selected.

### 1. Soak

- Use this mode to wash normal clothes or thick and heavy clothes which are excessively dirty.
- Available in Cotton, Cotton-Eco and Synthetic.

### 2. Pre Wash

- Use this option for load that need pretreatment. Add 16 minutes pre wash and drain.
  - When using Pre Wash option, do not use liquid detergent in the main wash comportment. Use powder for the main wash.
- Available in Cotton, Cotton-Eco and Synthetic.

### 3. Rinse+Spin

- Use this option to rinse and then spin.

### 4. Spin Only

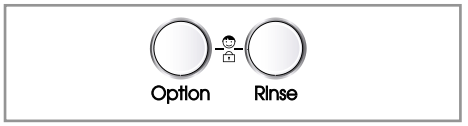
- When you want spin only, select the this option.

### 5. Dry Only

- When you want dry only, select the this option.
- Available in Cotton, Cotton-Eco, Synthetic and Quick 30.

# How to use washer

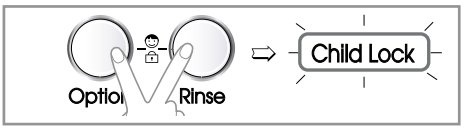
## Child lock



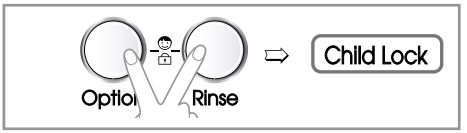

If you choose to lock the buttons on the control assembly to prevent tampering, this function may be selected.

### 1. Child lock

- Child lock can be set by pressing and holding the **Option** and **Rinse** button simultaneously. (About three seconds)

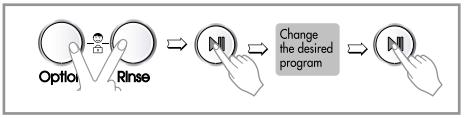



- *When child lock is set, all buttons are inoperable.*
- To deactivate Child lock system, press and hold the **Option** and **Rinse** button simultaneously again. (About three seconds)



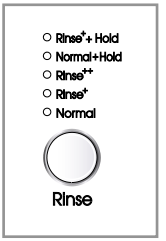

- To change to the desired program, whilst in child lock mode.

**1**. Press and hold both **Option** and **Rinse** button together once again.
**2**. Press the **Start/Pause** button.
**3**. Select the desired program and press the **Start/Pause** button again.




- The child lock can be set at any time and it is automatically canceled when operational errors occur. Also *Child lock* works when power is off.

## Rinse




- By pressing the Rinse button, the Rinse type can be selected.

***- Normal***
***- Rinse+***
***- Rinse++***
***- Normal+Hold***
***- Rinse++Hold***

### 1. Normal

- ***Cotton / Cotton-Eco / Synthetic performs 3 Rinses***
- ***Wool/Silk / Hand Wash /Quick 30 / Delicate / Duvet / performs 2 Rinses***

### 2. Rinse+ & Rinse++

- Used to additional rinse, which may assist in removing traces of detergent residue.
- By selecting Rinse+ or Rinse++ function, the Rinse Time and the Rinse water are increased.

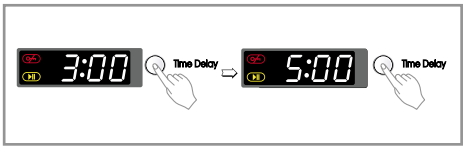
### 3. Rinse Hold

- Is selected by pressing the Rinse button repeatedly this function leaves clothes in the washer; suspended in the water after a rinse without entering into spin.
- To proceed through to a drain or spin, once the rinse hold function is completed using to program dial scroll to the required program.

***The required lamp will light up for identification.***

# How to use washer

## Time Delay




### 1. Time Delay

*Preparing washing before starting "Time Delay"*
- Turn on the water tap.
- Load laundry and close the door.
- Place the detergent and fabric softener in the drawer.

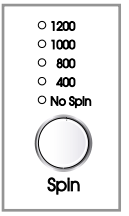
- How to set "Time Delay"
  - Press **Power(⏻)** button.
  - Turn the **Program** dial to select the program you require.
  - Press **Time Delay** button and set the desired time.
  - Press the **Start/Pause(⏯)** button. ("Time Delay" lamp is on)

- If **Time Delay** button is pressed, "3:00" is displayed. The maximum delayed time is 19:00 hours and the minimum time is 3:00 hours.
- Each pressing of the button advances time delay by one hour.
- To cancel the time delay, press the **Power(⏻)** button.
- **Time Delay** is 'expected time' from the present to the completion of washing cycle or selected process (Wash, Rinse, Spin).
- ***According to the condition of water supply and temperature, the delayed time and the actual washing time may vary.***

## Spin



[WD-14311RD/ WD-14316RD]



[WD-12311RD/ WD-12316RD]

- By pressing the Spin button, the spin speed can be chosen.

**Spin Only**
1. Press the Power button.
2. Set the desired spin speed by pressing the spin button.
3. Press the Start/Pause button.

### 1. Spin selection

- Spin speed is available according to the program as follows.

- **WD-14311RD/WD-14316RD**

**- Cotton & Cotton-Eco & Quick 30**
No Spin–400–800–1000–1400

**- Synthetic & Wool/Silk & Hand Wash & Duvet**
No Spin–400–800–1000

**- Delicate**
No Spin–400–800

- **WD-12311RD/WD-12316RD**

**- Cotton & Cotton-Eco & Quick 30**
No Spin–400–800–1000–1200

**- Synthetic & Wool/Silk & Hand Wash & Duvet**
No Spin–400–800–1000

**- Delicate**
No Spin–400–800

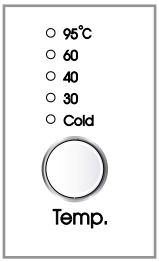
### 2. No Spin

- If "No Spin" is selected, the washer stops after draining water.

***The required lamp will light up for identification.***

# How to use washer

## Water Temp.




- By pressing the Temp. button, the water temperature can be selected.

***- Cold***

***- 30℃ / 40℃ / 60℃ / 95℃***

## 1. Water Temperature

- Water temperature can be selected as below according to the program.

**- Cotton-Eco**
40˚C–60˚C

**- Cotton**
Cold–30˚C–40˚C–60˚C–95˚C

**- Synthetic**
Cold–30˚C–40˚C–60˚C

**- Delicate & Wool/Silk & Quick 30 & Hand Wash & Duvet**
Cold–30˚C–40˚C

***The required temperature lamp will light up for identification.***

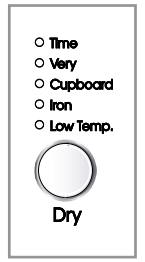
***For the more detailed information, please refer to the page13.***

## Intensive




- If the laundry is heavily soiled “Intensive” option is effective.
- By selecting the Intensive option, the wash time may be extended, depending on the program selected.
- To use this option press the Intensive button once before the wash program is started.

## Dry




- This washer-dryer’s automatical process from washing to drying can be selected easily.
- For most even drying , make sure all articles in the clothes load are similar in material and thickness.
- Do not overload dryer by stuffing too many articles into drum. Items must be able to tumble freely
- If you open door and remove load before dryer has finished its cycle, remember to press the Start/Pause button.
- By pressing the DRY button, you can select

**Cupboard** → **Very** → **Time**

**Low Temp.** → **Iron**

- After the end of dry, “ Cd ” is displayed. By pressing the “Start/Pause” button the program can be ended. If you not press the “Start/Pause” button, the program is ended after about 4 hours.
“ Cd ” Cooling Cycle.

## 1.Drying Automatic guide

- Use your Automatic Cycles to dry most loads. Electronic sensors measures the temperature of the exhaust to increase or decrease drying temperatures for faster reaction time and tighter temperature control.
- Recommend Automatic drying course as a kind of clothes.
  a) Synthetic - Low Temp.
  b) If you want to iron clothes-Iron.
  c) Cotton - Cupboard.
  d) Diaper - Very

**NOTE: The estimated drying time varies from the actual drying time with an Automatic. The type of fabric, size of the load, and the dryness selected affect drying time.**

## 2.Drying time guide

- By press the Dry button, the drying time can be selected.
- Drying course can last up to 100min. When selecting drying only, drying course will start after spining.
- These drying times are given as a guide to help you set your dryer for manual drying. Drying times can vary greatly depending on dampness, room temperature and type of fabric and your own experience will be your best guide.

### Woolen Articles

- Do not tumble dry woolen articles. Pull them to their original shape and dry them flat.

### Woven and Loopknit Materials

- Some woven and loopknit materials may shrinks, by varying amounts, depending on their quality.
- Always stretch them out immediately after drying.

### Permanent Press and Synthetics

- Do not overload your dryer
- Take out permanent press articles as soon as the dryer stops to reduce wrinkles.

### Fiber or Leather Materials

- Always check the manufacture's instructions.

### Baby clothes and Night Gowns

- Always check the manufacture's instructions.

### Rubber and Plastics

- Do not dry any items mode from or containing rubber or plastics, such as:
  a) aprons, bibs, chair covers
  b) curtains and table cloths
  c) bathmats

### Fiber glass

- Do not dry fiberglass articles in your dryer. Glass particles left in the dryer could be picked up by your clothes the next time you use the dryer and irri tate your skin.

## 3.Completion of Drying

- When drying cycle is completed, " Cd " [Cool Down] is displayed on the Multi display.
- The Cool Down is setting automatically when a drying cycle is complete.
- When you are not remove a loaf of clothes from the dryer as soon as it stops, wrinkles can form.
- The Cool Down operating periodically tumbles, rearranges and fluffs the load to avoid wrinkles without heat for up to 4 hours.
- The Cd message will continue to display until the clothes are removed or the Start/Pause button is pressed.

# How to use washer

## Display




### 1. Special function display

- When Child lock is selected, the " Child Lock " lamp is on.
- After the end of dry, " Cd " is displayed.
- When time delay is selected, it shows the remaining times to finish the selected program.

### 2. Self diagnose display

- If the washer encounters a fault during operation, the associated fault will be displayed.

" PE " : Water pressure sensing error
" FE " : Problem of overfilling water
" dE " : Door is not closed
" LE " : Over load in motor
" CE " : Over load in motor
" IE " : Water inlet trouble
" OE " : Drainage trouble
" UE " : Unbalanced load
" tE " : Water temperature trouble
" dHE " : Dry heater or thermostat trouble.

***If these error letters are displayed, please refer to the troubleshooting page26 and follow the guide.***

### 3. Completion of washing

- When washing cycle is completed, " End " is displayed on the "***Multi display***".

### 4. Time left

- During washing cycle, the remaining washing time is displayed.
- Recommended program by manufacturer.
  - Cotton : around 1 hour and 50 minutes
  - Cotton-Eco : around 2 hours
  - Synthetic : around 1 hour and 15 minutes
  - Delicate : around 1 hour 5 minutes
  - Wool/Silk : around 55 minutes
  - Hand Wash : around 50 minutes
  - Quick 30 : around 30 minutes
  - Duvet : around 1 hour
  - Drain: around 1 minute
- The washing time may vary by the amount of laundry, water pressure, water temperature and other washing conditions.
- If an unbalanced load is detected or if the suds removing program operates, the wash time may be extended. (Max. increasing time is 45 minutes.)

## Door Lock



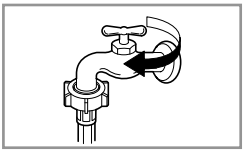

- Lights whenever the door of the washer is locked.
- The door can be unlocked by pressing the Start/Pause button to stop the washer.
- The door can be opened after a short delay.

# Maintenance

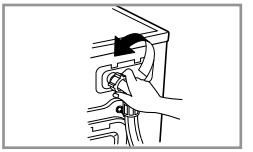
* **Before cleaning the washer interior, unplug the electrical power cord to avoid electrical shock to avoid electrical shock hazards.**
* **When disposing of the appliance, cut off the mains cable, and destroy the plug Disable the door lock to prevent young children being trapped inside.**

## ■ The water inlet filter

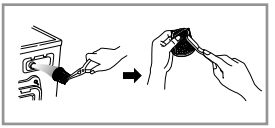
- " IE " error message will blink on the control panel when water does not enter the detergent drawer.
- If your water is very hard or contains traces of lime deposit, the water inlet filter may become clogged.
  It is therefore a good idea to clean it from time to time.



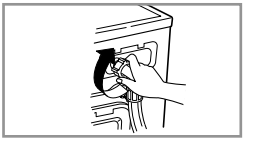
**1.** Turn off the water tap.



**2**. Unscrew the water inlet hose.



**3.** Clean the filter using a hard bristle brush.



**4**. Tighten up the inlet hose.

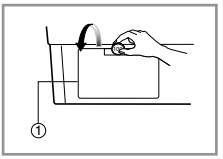
## ■ The drain pump filter

* The drain filter collects threads and small objects left in the laundry.
  Check regularly that the filter is clean to ensure smooth running of your machine.

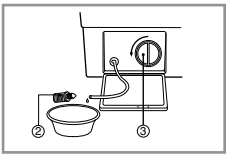
⚠ **CAUTION** First drain using the drain hose and then open the pump filter to remove whatever any threads or objects.
Be careful when draining if the water is hot.

* Allow the water to cool down before cleaning the drain pump, carrying out emergency emptying or opening the door in an emergency.

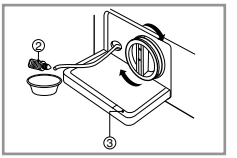
**1.** Open the lower cover cap (①) by using a coin. Drain plug (②) to pull out the hose.




**2.** Unplug the drain plug (②), allowing the water to flow out. At this time use a vessel to prevent water flowing on to the floor. When water does not flow any more, turn the pump filter (③) open to the left.




**3.** Remove out any foreign material from the pump filter (③). After cleaning, turn the pump filter (③) clockwise and insert the drain plug ( ② )to the original place. close the lower cover cap.

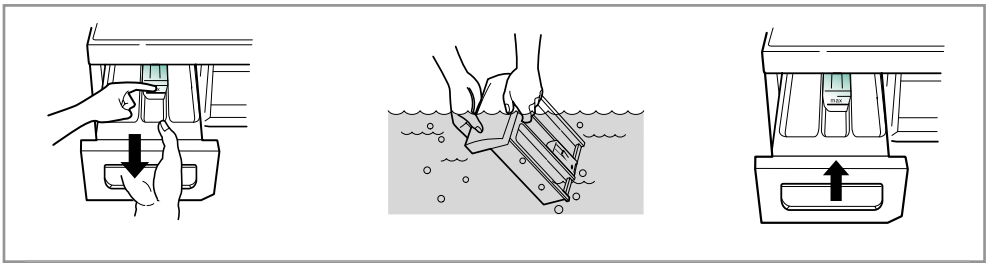


# Maintenance

## ■ Dispenser drawer

❋ After a while detergents and fabric softeners leave a deposit in the drawer.

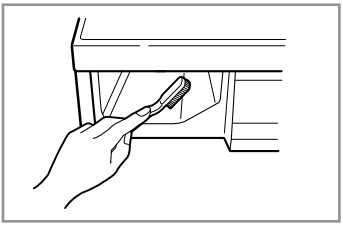
- It should be cleaned from time to time with a jet of running water.
- If necessary it can be removed completely from the machine by pressing the catch downward and by pulling it out.
- To facilitate cleaning, the upper part of the fabric softener compartment can be removed.



## ■ The drawer recess

❋ Detergent can also accumulate inside the recess which should be cleaned occasionally with an old toothbrush.

- Once you have finished cleaning, replace the drawer and run a rinse cycle without laundry.



## ■ The washing drum

- If you live in a hard water area, limescale may continuously build up in places where it cannot be seen and thus not easily removed.
  Over time the build up of scale clogs appliances, and if it is not kept in check these may have to be replaced.
- Although the washing drum is made of Stainless steel, specks of rust can be caused by small metal articles (paper clips, safety pins) which have been left in the drum.
- The washing drum should be cleaned from time to time.
- If you use descaling agents, dyes or bleaches, make sure they are suitable for washing machine use.

❋ Descaler may contain chemicals that may damage part of your washing machine.

❋ Remove any spots with a stainless steel cleaning agent.

❋ Never use steel wool.

# Maintenance

## ■ The water circulation nozzle

• Clean the water circulation nozzle, if clogged.

## ■ Cleaning your washer

**1. Exterior**

Proper care of your washer can extend its life.

The outside of the machine can be cleaned with warm water and a neutral non abrasive household detergent.

Immediately wipe off any spills. Wipe with damp cloth.

Try not to hit surface with sharp objects.

❋ IMPORTANT: Do not use methylated spirits, diluents or similar products.

**2. Interior**

Dry around the washer door opening, flexible gasket and door glass.
Run washer through a complete cycle using hot water.
Repeat process if necessary.

NOTE Remove hard water deposits using only cleaners labeled as safe for washing machine.

## ■ Winterizing instructions

If the washer is stored in an area where freezing may occur or moved in freezing temperatures, follow these instructions to prevent damage to the washer:

**1.** Turn off water supply tap.

**2.** Disconnect hoses from water supply and drain water from hoses.

**3.** Plug electrical cord into a properly grounded electrical outlet.

**4.** Add 1gallon(3.8L) of nontoxic recreational vehicle(RV) antifreeze into an empty wash drum. Close the door.

**5.** Set spin cycle and let washer spin for 1minute to drain out all water.
Not all of the RV antifreeze will be expelled.

**6.** Unplug electrical power cord, dry the drum interior, and close the door.

**7.** Remove dispenser drawer, drain and dry excessive water from the compartments.

**8.** Store washer in an upright position.

**9.** To remove antifreeze from washer after storage, run empty washer through a complete cycle using detergent. Do not add wash load.

# Troubleshooting guide

**✳ This washing machine is equipped with automatic safety functions which detect and diagnose faults at an early stage and react appropriately.**
**When the machine does not function properly or does not function at all, check the following points before you contact your service provider.**

| Symptom | Possible Cause | Solution |
|---|---|---|
| Rattling and clanking noise | • Foreign objects such as coins or safety pins maybe in drum or pump. | Stop washer and check drum and drain filter. If noise continues after washer is restarted, call your authorized service centre. |
| Thumping sound | • Heavy wash loads may produce a thumping sound. This is usually normal. | If sound continues, washer is probably out of balance. Stop and redistribute wash load. |
| Vibrating noise | • Have all the transit bolts and packing been removed?<br>• Are all the feet resting firmly on the ground? | If not removed during installation, refer to Installation guide for removing transit bolts. Wash load may be unevenly distributed in drum. Stop washer and rearrange wash load. |
| Water leaks. | • Fill hoses or drain hose are loose at tap or washer. | Check and tighten hose connections. |
| | • House drain pipes are clogged. | Unclog drain pipe. Contact plumber if necessary. |
| Oversudsing | | Too much detergent or unsuitable detergent may cause excessive foaming which may result in water leaks. |
| Water does not enter washer or it enters slowly | • Water supply is not adequate in area. | Check another tap in the house. |
| | • Water supply tap is not completely open. | Fully open tap. |
| | • Water inlet hose(s) are kinked. | Straighten hose(s). |
| | • The filter of the inlet hose(s) are clogged. | Check the filter of the inlet hose(s). |
| Water in the washer does not drain or drains slowly. | • Drain hose is kinked or clogged. | Clean and straighten the drain hose. |
| | • The drain filter is clogged. | Clean the drain filter. |

# Troubleshooting guide

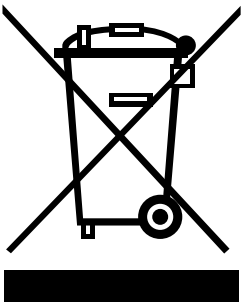
| Symptom | Possible Cause | Solution |
|---|---|---|
| Washer does not start | • Electrical power cord may not be plugged in or connection may be loose. | Make sure plug fits tightly in wall outlet. |
| | • House fuse blown, circuit breaker tripped,or a power outage has occurred. | Reset circuit breaker or replace fuse. Do not increase fuse capacity. If problem is a circuit overload, have it corrected by a qualified electrician. |
| | • Water supply tap is not turned on. | Turn on water supply tap. |
| Washer won't spin | ❋ Check that the door is firmly shut. | Close the door and press the Start/Pause button. After pressing the Start/Pause button, it may take a few moments before the clothes washer begins to spin. The door must lock before spin can be achieved. |
| Door does not open | | Once started, the door can not be opened for safety reasons. Wait one or two minutes before opening the door to give the electric locking mechanism time to release. |
| Wash cycle time delayed | | The washing time may vary by the amount of laundry, water pressure, water temperature and other using conditions. If the imbalance is detected or if the suds removing program works, the wash time shall be increased. |
| Dry problem | • Does not dry | Do not overload. Check that the washer is draining properly to extract adequate water from the load. Clothes load is too small to tumble property. Add a few towels. |

# Troubleshooting guide

| Symptom | Possible Cause | Solution |
|---|---|---|
| 1E | • Water supply is not adequate in area<br>• Water supply taps are not completely open.<br>• Water inlet hose(s) are kinked.<br>• The filter of the inlet hose(s) are clogged. | Check another tap in the house.<br>Fully open tap.<br><br>Straighten hose(s).<br>Check the filter of the inlet hose(s). |
| OE | • Drain hose is kinked or clogged.<br>• The drain filter is clogged. | Clean and straighten the drain hose.<br>Clean the drain filter. |
| UE | • Load is too small.<br>• Load is out of balance.<br>• The appliance has an unbalance detection and correction system. If individual heavy articles are loaded (ex. bath mat, both robe, etc.), this system may stop spinning or even interrupt the spin cycle altogether.<br>• If the laundry is still too wet at the end of the cycle, add smaller articles of laundry to balance the load and repeat the spin cycle. | Add 1 or 2 similar items to help balance the load.<br>Rearrange load to allow proper spinning |
| dE |  • Is the door opend or not completely closed? | Close the door completely.<br>* If "dE" is not released, call for service. |
| tE | | Unplug the power plug and call for service. |
| FE | • Water overfills due to the faulty water valve. | Close the water tap.<br>Unplug the power plug.<br>Call for service. |
| PE | • Water level sensor has malfunctioned. | |
| CE | • Over load in motor. | |
| LE | • Over load in motor. | |
| dHE | • Check water supply. | Turn the tap on<br>I f "dHE " is not released, unplug power plug and call service. |

# Terms of Warranty

**Disposal of your old appliance**



1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

**What Is Not Covered:**

- Service trips to your home to teach you how to use the product.
- If the product is connected to any voltage other than that shown on the rating plate.
- If the fault is caused by accident, neglect, misuse or Act of God.
- If the fault is caused by factors other than normal domestic use or use in accordance with the owner's manual.
- Provide instruction on use of product or change the set-up of the product.
- If the fault is caused by pests for example, rats or cockroaches etc..
- Noise or vibration that is considered normal for example water drain sound, spin sound, or warming beeps.
- Correcting the installation for example, levelling the product, adjustment of drain.
- Normal maintenance which recommended by the owner's manual.
- Removal of foreign objects / substances from the machine, including the pump and inlet hose filter for example, grit, nails, bra wires, buttons etc.
- Replace fuses in or correct house wiring or correct house plumbing.
- Correction of unauthorized repairs.
- Incidental or consequential damage to personal property caused by possible defects with this appliance.
- If this product is used for commercial purpose, it is not warranted.

(Example : Public places such as public bathroom, lodging house, training center, dormitory)

If the product is installed outside the normal service area, any cost of transportation involved in the repair of the product, or the replacement of a defective part, shall be borne by the owner.

# Memo