



Washing Machine

OWNER'S MANUAL

WD13020D/WD13020D1
WD12020D

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 Features



■ Protection against creases

With the alternate rotation of the drum, creased garments are minimized.



■ Built-in Heater

Internal heater automatically heats the water to the best temperature on selected cycles.



■ More economical by Intelligent Wash System

Intelligent Wash System detects the amount of load, and then determines the optimum water level and washing time to minimize energy and water consumption.



■ Child Lock

The Child lock prevents children from pressing any button to change the settings during operation. The child lock can only be activated after the cycle has started.



■ Low noise speed control system

By sensing the amount of load and balance, it distributes the load to minimize the spinning noise level.



■ Direct Drive System

The advanced Brushless DC motor directly drives the drum without a belt and pulley.

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Warnings

READ ALL INSTRUCTIONS AND EXPLANATION OF THE INSTALLATION 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:

- Before installation, check for exterior damages. If it has, do not install.
- Do not install or store the washer where it will be exposed to the weather.
- Do not tamper with controls. Do not install the washer in any mobile application.
- 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 or near children. Do not allow children to play on, with, or inside this or any other appliance.
- Keep small animals away from the 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.
- To avoid such a result, carefully follow the garment manufacturer's wash and care instructions.
- 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 where an internal dryer is fitted to the model. So, do not load such contaminated clothes.
- Do not slam the washer door closed or try to force the door open when locked. This could result in damage to the washer.
- When the machine runs at high temperatures the front door may be very hot. Don't touch it.
- 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.
- When unplugging power cord, do not pull out by grasping the cord. Otherwise, the power cord may be damaged.
- 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.
- Before discarding an old machine unplug it. Render the plug useless. Cut off the cable directly behind the appliance to prevent misuse.
- If the machine is submersed or subjected to water spray, always call for a Service technician as there will be a risk of electric shock and a fire hazard.
- Do not install on an elevated platform of any kind.

*** Do not push on the door when it is open as it could cause the unit to topple over or damage to the door itself.**

SAVE THESE INSTRUCTIONS

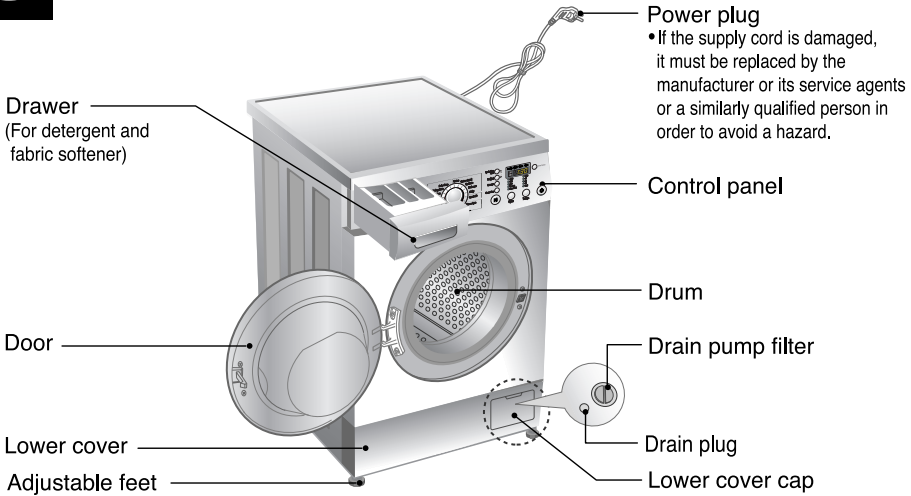
GROUNDING INSTRUCTIONS

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.

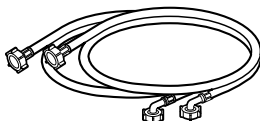
WARNING : Improper connection of the equipment-grounding conductor can result in risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance - if it does not fit the outlet,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

S specifications

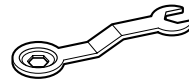


- Name : Front loading washing machine
- Power supply : 220-240V~,50Hz
- Size : 600mm(W) × 550mm(D) × 850mm(H)
- Weight/Max.Watt : 61kg / 2100W
- Wash capacity : Refer to the Rating Label
- Water consumption : 64 ℓ
- Permissible water pressure : 100-800kPa (1-8 bar)
- Spin speed : No Spin/400/800/1300 [WD13020D/WD13020D1]
No Spin/400/800/1200 [WD12020D]
- The external hot water supply MUST NOT exceed 65°C
- Permissible cold water temperature : 4-25°C
- No further backflow protection required for connection to the water supply.
- * The appearance and specifications may be varied without notice to improve the units quality.
- * Specifications subject to change by manufacturer.

■ Accessories



Inlet hose(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.

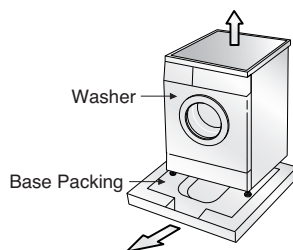
In countries where there are areas which may be subject to infestation by cockroaches or other vermin, pay particular attention to keeping the appliance and its surroundings in clean condition at all times. Any damage which may be caused by cockroaches or other vermin will not be covered by the manufacturer's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

■ Transit bolts

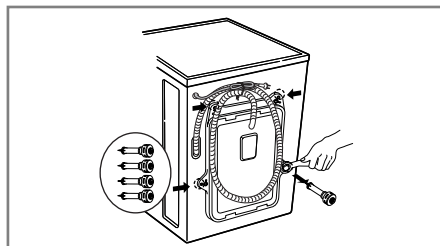
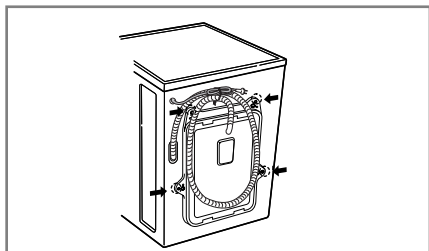
The appliance is fitted with transit bolts to prevent internal damage during transport.

- 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, malfunction and severe damage.

2. Unscrew the 4 bolts with the spanner supplied.

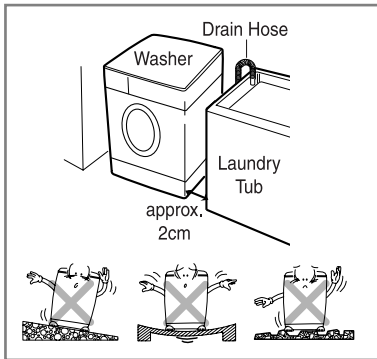
3. Take out the 4 bolts along with the rubber bungs by slightly twisting the bung. Keep the 4 bolts and the spanner for future use.

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

4. Close the holes with the caps supplied.

I nstallation

■ Installation place requirements



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 :

Allow 10cm of clearance at the rear of the machine and 2cm at each side.

Do not place or store laundry products on top of washer at any time.

Do not use pre wash stain removal chemicals on or near the machine as they can damage the machine's cabinet and control panel finish.

Do not install the washer on an elevated platform or stand.

■ Positioning

Install the washer on a flat hard floor. Timber base and suspended type floors can cause excessive vibration and noise.

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 panel (85x60cm) covered with aluminum foil on the side facing the cooker or stove, must be inserted between the two appliances.
- 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 service technician 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.
- Do not install or operate the washer in a concealed enclosure or cupboard.
- Smooth tiled surfaces or mosaic floor tiles can cause the machine to vibrate and move from its adjusted position. If such a problem exists, fitting a self adhesive anti slip pad under each foot can help reduce this. These types of pads can be sourced from a hardware store.

I nstallation

■ 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 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 temperature 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

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
This appliance is not intended or designed for use other than a domestic application.

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.

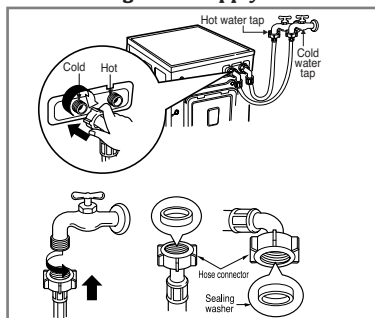
Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance 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.

CAUTION

If this appliance is supplied from a cord extension set or electrical portable outlet device, the cord extension set or electrical portable outlet device must be positioned so that it is not subject to splashing or ingress of moisture.

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

■ Connecting water supply hose



- ▶ Water supply pressure must be between 100kPa and 100-800kpa (1-8 bar)
- ▶ Don't strip or crossthread when connecting Inlet hose to the valve.
- ▶ If the water supply pressure is more than 800kPa, a pressure reducing 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. Hand tighten only. Never use a leverage tool to tighten the hoses. A towel or cloth can be used to secure a firm grip on the hose ends.
- 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.

NOTE After completing connection, if water leaks from the hose, repeat the same steps.
Use the most conventional type of tap for water supply.

Installation

This equipment is not designed for maritime use or for use in mobile installations such as caravans, aircraft etc.

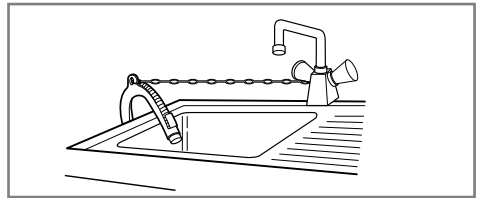
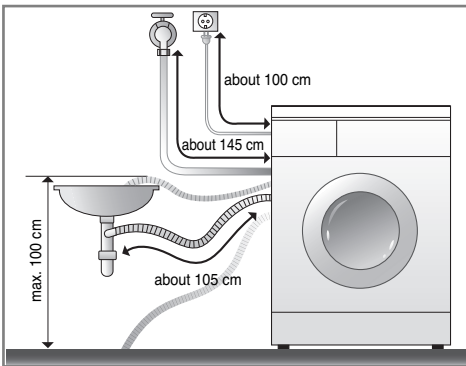
Turn off the supply tap if the machine is to be left for any length of time (e.g. holiday), especially if there is no floor drain(gully) in the immediate vicinity.

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.

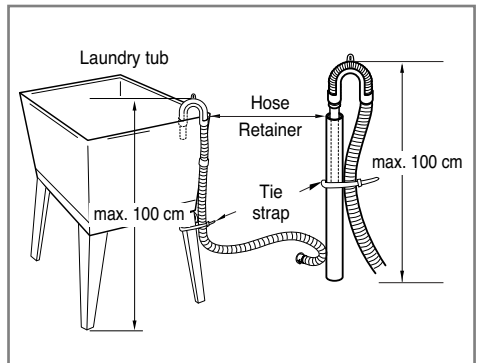
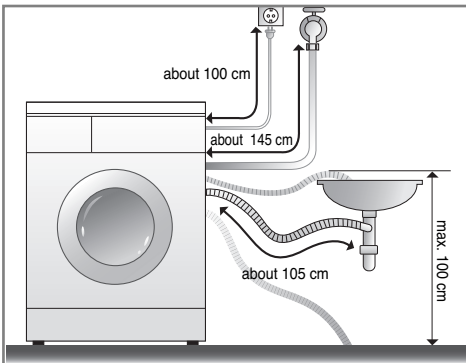
Packaging material (e.g. Films, Styrofoam) can be dangerous for children. There is a risk of suffocation !

Keep all packaging well away from children

■ Installation of drain hose



- When installing the drain hose to a 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 it back into the washer. This will cause abnormal noise, internal damage and a water leak.

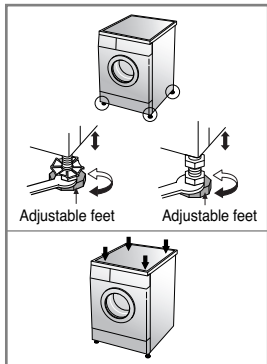
I nstallation

■ 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 unbalance 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 It is recommended that this machine is not placed on an elevated surface. Such an installation can cause the machine to fall and cause serious damage and injury.

* *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)

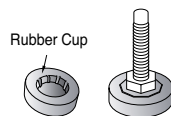
- Position each foot on the Tread Mate and level the machine to suit. (Cut Tread Mate into 70x70 mm sections and stick the pieces on to the dry tile where machine is to be placed.)
- * ***Tread Mate is a self adhesive material used on ladders & steps that prevents slipping.***

■ Wooden floors (Suspended floors)

- Wooden floors are particularly susceptible to vibration.
- To reduce 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 were possible.
- 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

■ Preparations for the first wash

Select a cycle (COTTON 60°C, add a half load of detergent) allow the unit to wash without clothing. This will remove residues and water 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)

Color (White, Lights, Darks)

Lint (Lint producers, Collectors)

Separate clothes according to amount of soil.

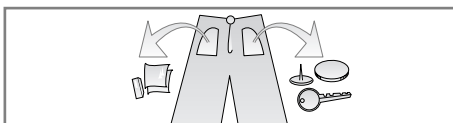
Separate white fabrics from colored fabrics.

Wash lint producers and lint collectors separately.

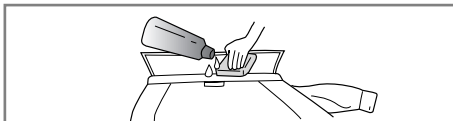
3. Caring before loading

■ **Combine large and small items in a load. Load large items first. Large items should not be more than half the total wash load.**

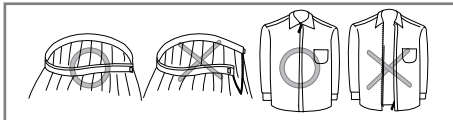
Do not wash single items. This may cause an out-of-balance load. Add at least two similar items.



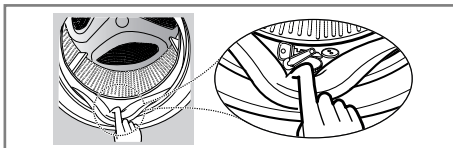
- Check all pockets to make sure that they are empty. Items such as nails, hair clip, matches, pens, coins and keys can damage both your washer and your clothes.



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



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



- Check the folds of the flexible grey door gasket and remove any small articles, if any.

- Check inside of the drum and remove any left items in it from the previous wash.

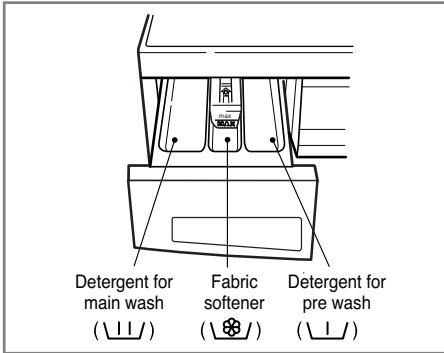


- Remove any clothing or items on the flexible gasket to prevent clothing and the gasket from being damaged.

Adding detergent

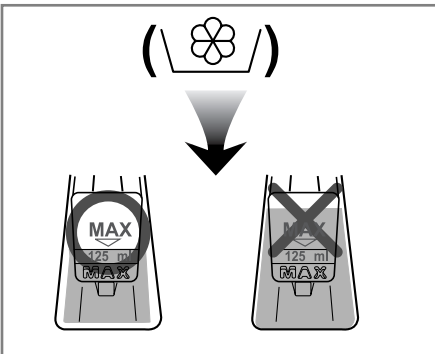
■ Adding detergent and fabric softener

1. The Dispenser Drawer



- Main wash only → \ \ / /
- Pre Wash + Main Wash → \ \ / / • \ \ / /

2. Adding Fabric Softener



- Do not exceed the maximum fill line. Close the dispenser drawer slowly. 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.

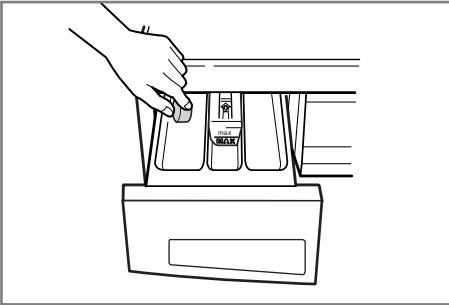
NOTE Do not pour fabric softener directly on the cloths

Adding detergent

3. Detergent dosage

- The detergent should be used according to the instruction of the detergent manufacture.
- If too much detergent is used, too many suds can occur and this will decrease the washing result or cause heavy load to the motor. (Causing malfunctions)
- If there are too many suds, the detergent quantity must be reduced.
- Use specified Front loader washing powder only.
- Detergent usage may need to be adjusted for water temperature, water hardness, size and soil level of the load. For best results, avoid oversudsing.
- Detergent is flushed from the dispenser at the beginning of the cycle.

4. Water softener



- A water softener, such as Anti limescale (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 the quantity of detergent as for soft water.

[Important Note]

Recommended amount of detergent as per wash load

Water quality and temperature will play a major part on how much detergent is required. Follow the detergent manufacturer's recommendation as a guide, however, Less detergent can often be used.

Never use more than the Detergent manufacturer's recommendation. (Too much soap, or over sudsing may cause the unit to operate abnormally.)

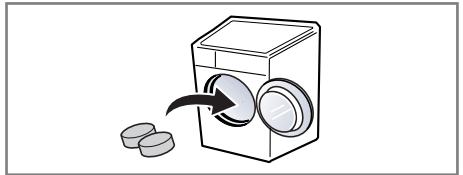
Always use Detergent designed for Front Load Washing machines only. Powdered detergent is recommended.

When tested in accordance with standard AS/NZS 2040.2, the water rating that has been applied to this model was the result of using 70% of the detergent with the cycle programmed on the Cotton 40°C, Intensive.

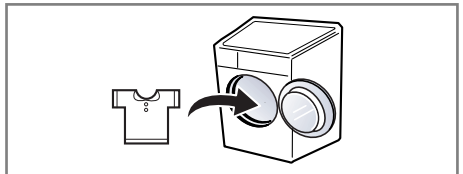
* For best washing results, we recommend to premix powdered detergent with warm water and adding it to the dispenser draw before starting the wash.

5. Using Tablets

- 1) Open the door and place Tablets into the drum.




- 2) Load the laundry into the drum.



- 3) Close the door and set the desired program cycle to commence.

■ Recommended courses according to the laundry type

Program	Fabric Type	Proper Temp.	Option	Maximum Load
Cotton	Color fast garments (shirts, night dresses, pajamas...) and white cotton load (underwear)	40° C (Cold, 30° C, 60° C, 95° C)	- Medic Rinse - Intensive - Pre Wash - Crease Care	Rated capacity 7.5 kg
Synthetic	Polyamide, Acrylic, Polyester	40° C (Cold, 30° C, 60° C)		Rated capacity 4.0 kg
Cotton Quick	Cotton which is lightly soiled			Rated capacity 7.5 kg
Quick 30	Colored Laundry which is lightly soiled fast.	30° C (Cold, 40° C)	- Intensive - Crease Care	Rated capacity 2.0 kg
Delicate	Delicate laundry easily damaged (silk, curtains...)	40° C (Cold, 30° C)		Rated capacity 2.0 kg
Hand Wash / Wool 	Hand wash marked delicate and machine wash woollen laundry			Rated capacity 2.0 kg
Duvet	Cotton bedding with filling duvet, pillow, blanket, sofa cover with light filling			1 Single size
Bulky	which absorbs excessive water (Jumpers)	30° C (Cold)		Rated capacity 7.5 kg
Baby Care	Laundry for babies and infants.	60° C (40° C, 95° C)		- Medic Rinse - Intensive - Pre Wash - Crease Care
Bio Care	For elimination of protein stains	60° C (95° C)	Rated capacity 7.5 kg	
Boiling Care	For elimination of remnant detergent after boiling wash	95° C	Rated capacity 7.5 kg	

* **WD13020D/WD13020D1** : Program setting with “ Cotton, Intensive, 40°C, 1300 rpm” option for test in accordance or in conformity with AS/NZS 2040.2 for 7.5 kg normally soiled cotton load.

WD12020D : Program setting with “ Cotton, Intensive, 40°C, 1200 rpm” option for test in accordance or in conformity with AS/NZS 2040.2 for 7.5 kg normally soiled cotton load.

* For best washing results, we recommend to premix powdered detergent with warm water and adding it to dispenser draw.

* **Water Temperature** : Select the water temperature to the wash cycles.

Always follow garment manufacture’s care label or instructions when laundering.

* **Medic Rinse** : For a 40 degree final rinse water temperature, you can choose Medic Rinse option.

* **Pre Wash** : If the laundry is heavily soiled, “Pre Wash” Course is recommended.

* **Intensive** : When washing heavily soiled laundry you can increase effectiveness by choosing “Intensive” option.

* **Crease Care** : If you want to reduce creasing, select Crease Care button.

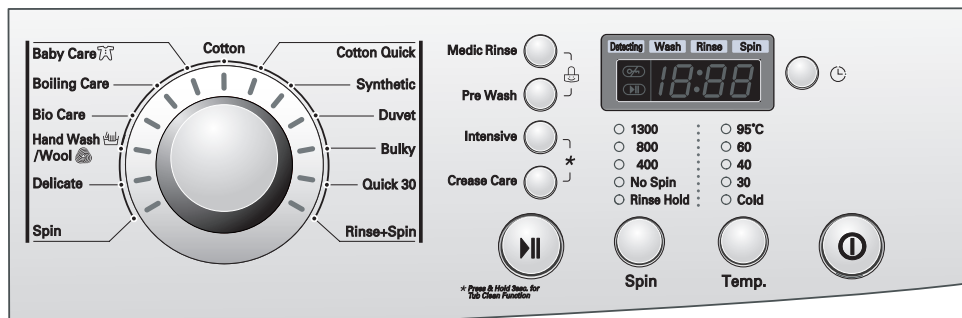


The wool wash cycle of this machine has been approved by Woolmark for the washing of machine washable Woolmark products provided that the products are washed according to the instructions on the garment label and those issued by the manufacturer of this washing machine M0806.

* **Notes** : Neutral detergent is recommended.

The wool cycle features gentle tumbling and low-speed spin for garment care.

How to use washer



1. Cotton automatically selected upon power on.

- Press the **Power** button to start.
- Press the **Start/Pause** button.
- Initial conditions
 - **Wash** : main wash
 - **Rinse** : 3 times
 - **Spin** :
 - 1300 rpm [WD13020D/WD13020D1]
 - 1200 rpm [WD12020D]
 - **Water temperature** : 40°C
 - **Program** : Cotton

2. Manual Selecting

- Press the **Power** button to start.
- Select the desired program cycle and options by turning the program dial and pressing each button.

Please refer to page 15 ~ 20 on how to set the program and options.

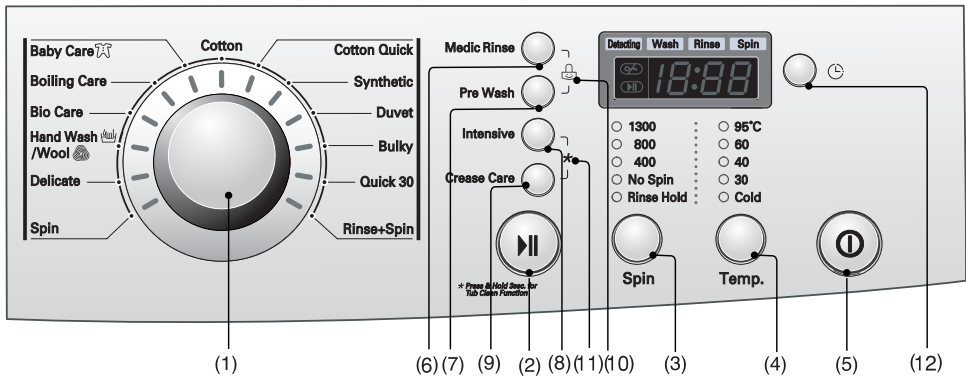
- Press the **Start/Pause** button.

3. Beep on/off



- The Beep on/off function can be set only during the washing cycle.
- To set the Beep On/Off function follow the below steps.
 1. Turn on the washing machine (by pressing the **Power** button).
 2. Press the **Start/Pause** button.
 3. Press and hold the **Time Delay** button simultaneously for three seconds to set Beep on/off function.
- Once the Beep on/off function is set, the setting is memorized even after Power is off.

How to use washer



- | | | |
|----------------------------|--------------------------|--------------------------|
| (1) Dial : Program | (5) Button : Power | (9) Button : Crease Care |
| (2) Button : Start / Pause | (6) Button : Medic Rinse | (10) Child Lock |
| (3) Button : Spin | (7) Button : Pre Wash | (11) Tub Clean |
| (4) Button : Temperature | (8) Button : Intensive | (12) 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.

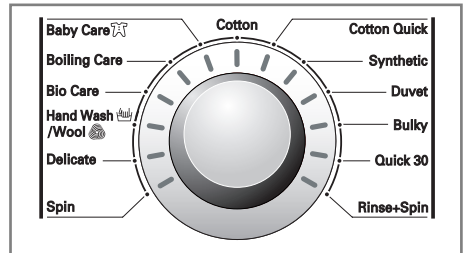
2. Initial Program

- When the Power button is pressed, the washer defaults to the 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 the **Start/Pause** button and then the washer will proceed.

■ Initial program

- **[WD13020D/WD13020D1]**
- Cotton Program / Main wash / Normal Rinse / 1300 rpm / 40°C
- **[WD12020D]**
- Cotton Program / Main wash / Normal Rinse / 1200 rpm / 40°C

Program



- 13 programs are available according to the laundry type.
- When **Power** button is pressed, the Cotton program is automatically selected.
- By turning the Program dial, the program is can be changed in the order of
“ Cotton – Cotton Quick – Synthetic – Duvet – Bulky – Quick 30 – Rinse+Spin – Spin – Delicate – Hand Wash/Wool – Bio Care – Boiling Care – Baby Care”.

Please refer to page 13 for suitable laundry types and their maximum capacities in each cycle.

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

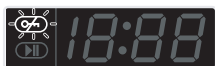
- If temporary stop of wash cycle is needed, press the **Start/Pause** button.
- When in Pause, the power is turned off automatically after 4 minutes.
- **NB.** The door will not open before 1 to 2 minutes when Pause is selected, or at the end of the wash cycle.

Detecting



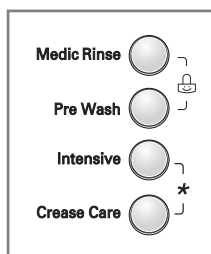
- While the "Detecting" is shown in the display the machine rotates slowly and detects how much laundry is in the drum. It will take a few seconds.
- The auto detect will function in the Cotton, Cotton Quick, and Synthetic Cycles.

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.

Option



- By pressing the Option button, Option functions may be selected.

1. Medic Rinse

- This option allows the final rinse to be heated to 40 degrees.
- It cannot be chosen in the Quick 30, Hand Wash/Wool, Duvet, Delicate and Bulky cycles.

2. Pre Wash

- If the laundry is heavily soiled, "Pre Wash" course is effective.
- Pre Wash is available in Cotton, Cotton Quick, Synthetic, Bio Care, Baby Care and Boiling Care.

3. 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.

4. Crease Care

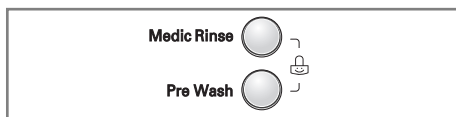
- If you want to reduce creasing, select this option.

The required lamp will light up for identification.

NOTE: The times indicated by the washer are guides only. total wash times may vary due to extraneous conditions.

How to use washer

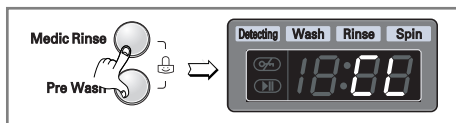
Child Lock



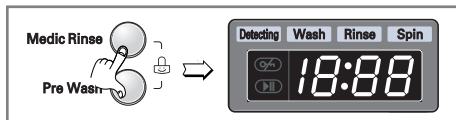
If you choose to lock the buttons on the control panel to prevent tampering this function may be selected.

Child Lock can only be selected once the cycle has started. For safety purposes, the power button can still be operated whilst the Child Lock is activated.

- Child Lock can be set by pressing the **Medic Rinse** button and **Pre Wash** button simultaneously. (About three seconds)

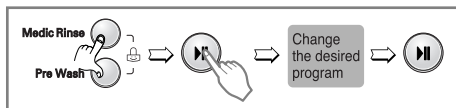


- To deactivate Child Lock system, press **Medic Rinse** and **Pre Wash** buttons simultaneously again. (About three seconds)



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

1. Press both **Medic Rinse** and **Pre Wash** together once again. (About three seconds)
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 can be deactivated only by using the child lock buttons shown above. Turning the power off or operational errors will not affect child lock.

Tub Clean



Tub Clean course can be set by pressing and holding **Intensive** and **Crease Care** button simultaneously.

When Tub Clean course is set, the display will show “**t c l**”, and all other option buttons are inoperable.



TUB CLEAN is special cycle to clean the inside of the washer. This cycle uses higher water levels with higher spin speeds. Perform this cycle regularly.

How to use the Tub Clean cycle:

1. Remove any clothing or items from the washer and close the door.
2. Open the dispenser drawer and add Anti limescale (Calgon) to the Main wash compartment.

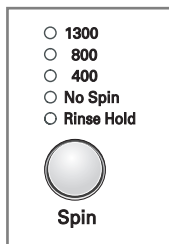
NOTE: Do not add any detergent to the detergent compartments. Excessive suds may generate and leak from the washer. Do not add any laundry for this function.

3. Close the dispenser drawer slowly.
4. Power On and then press and hold **Intensive** and **Crease Care** button for 3 seconds. then “**t c l**” will be displayed on the display panel.
5. Press the **Start/Pause** button to start.
6. After the cycle is complete, leave the door open to dry around the washer door opening, the flexible gasket and door glass.

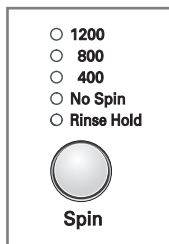
CAUTION: Do not leave the machine unsupervised with the door open when small children are present.

How to use washer

Spin



[WD13020D/
WD13020D1]



[WD12020D]

- After selecting the wash course, the spin speed can be chosen by pressing the spin button.

1. Spin selection

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

WD13020D/WD13020D1

- **Cotton, Cotton Quick, Rinse+Spin, Quick 30, Bio Care, Bulky**
Rinse Hold - No Spin - 400 - 800 - 1300
- **Delicate, Duvet, Baby Care, Boiling Care, Synthetic, Hand Wash/Wool**
Rinse Hold - No Spin - 400 - 800
- **Spin**
No Spin - 400 - 800 - 1300

WD12020D

- **Cotton, Cotton Quick, Rinse+Spin, Quick 30, Bio Care, Bulky**
Rinse Hold - No Spin - 400 - 800 - 1200
- **Delicate, Duvet, Baby Care, Boiling Care, Synthetic, Hand Wash/Wool**
Rinse Hold - No Spin - 400 - 800
- **Spin**
No Spin - 400 - 800 - 1200

2. No spin

- If No spin is selected, the washer stops after draining the last rinse water.

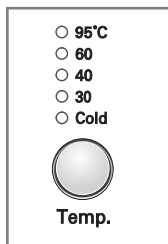
3. Rinse Hold

- Rinse Hold is selected by pressing the spin button repeatedly this function leaves clothes in the machine; suspended in the water after the final rinse without entering into spin.
- To proceed through to a drain or spin, once the rinse hold function is completed, select the Spin function on the program dial and then press the Start / Pause button.

Check the display lamps as they will indicate the chosen cycles.

How to use washer

Water Temp.



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

- Cold
- 30°C / 40°C / 60°C / 95°C

• Water temperature can be selected according to the program.

The required temperature lamp will light up for identification.

For the more detailed information, please refer to the page 13.

Time Delay



Preparing washing before starting “Time Delay”

- Turn on the water tap.
- Load laundry and close the door.
- Place Powdered only detergent and fabric softener in the appropriate compartments of the dispenser 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. (“.” blinks.)
- If **Time Delay** button is pressed, “3:00” is displayed. The maximum delayed time is 19 hours and the minimum time is 3 hours.
- Each pressing of the button advances on time delay by one hour.
- To cancel the time delay, press the **Power** button.
- **Time Delay** : The time delay time is inclusive of the wash cycle time. It is the actual time before the end of the cycle, not the time until it begins 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.*

How to use washer

Display



1. Special function Multi display

- When child lock is selected, the “**CL**” is displayed.
- When time delay is selected, it shows the remaining time until the finish of the selected program.

2. Self diagnosis display

- If the machine 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

“**LE**” : Over load in motor

“**IE**” : Water inlet trouble

“**DE**” : Drainage trouble

“**UE**” : Unbalanced load

“**TE**” : Water temperature trouble

“**PF**” : The washer experienced a power failure.

If these error letters are displayed, please refer to the troubleshooting page 25 and follow the guide.

3. Completion of washing

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

4. Time left

- During the wash cycle, the remaining washing time is displayed.
- Recommended program by manufacturer.
 - **Cotton** : around 1 hour and 54 minutes
 - **Cotton Quick** : around 1 hour and 26 minutes
 - **Synthetic** : around 1 hour and 15 minutes
 - **Quick 30** : around 30 minutes
 - **Hand Wash/Wool** : around 51 minutes
 - **Delicate** : around 57 minutes
 - **Duvet** : around 1 hour and 9 minutes
 - **Bulky** : around 59 minutes
 - **Baby Care** : around 1 hour and 54 minutes
 - **Bio Care** : around 2 hours and 14 minutes
 - **Boiling Care** : around 2 hours and 17 minutes
 - **Rinse+ Spin** : around 20 minutes
 - **Spin** : around 15 minutes
- 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 will be extended.
(Max. increasing time is 45 minutes.)

Est. Time Remaining

- This display shows the estimated time remaining in the cycle when operating.
- This washer automatically detects the wash load (weight) and optimizes the washing time. After detecting, the display will show the adjusted time remaining.

Status Indicator

- These indicators flash to indicate what process the machine is up to during the cycle.
(detecting, wash, rinse, spin)

Maintenance

* Before cleaning the washer interior, unplug the electrical power cord to avoid electrical shock to avoid electrical shock hazards.

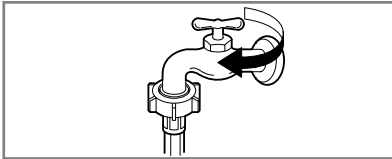
* When disposing of the appliance, cut off the mains cable, and destroy the plug Disable the door lock to prevent young children being trapped inside.

■ The water inlet filter

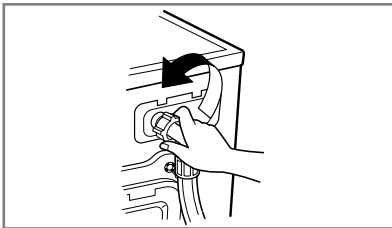
- " i E " error message will blink on the control panel when water does not enter the detergent drawer.

- If water is very hard or contains traces of lime deposit, the water inlet filter may become clogged.

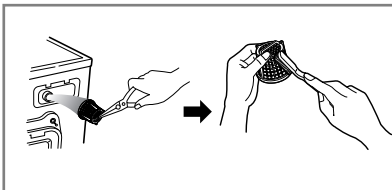
It is therefore a good idea to clean it from time to time.



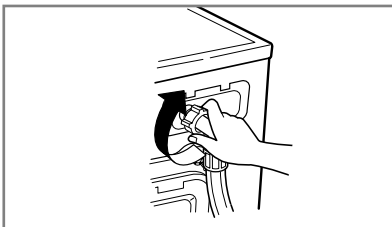
1. Turn off the water tap.



2. Unscrew the water inlet hose.



3. Clean the filter using a hard bristle brush.



4. Refit and tighten up the inlet hose.

Maintenance

■ The drain pump filter

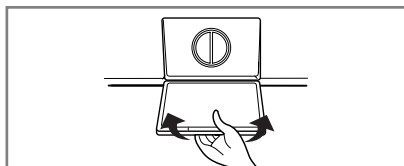
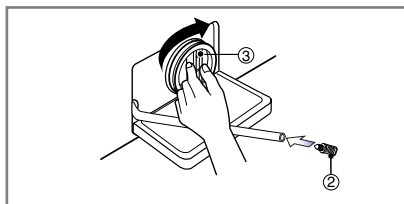
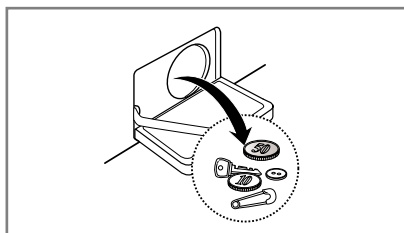
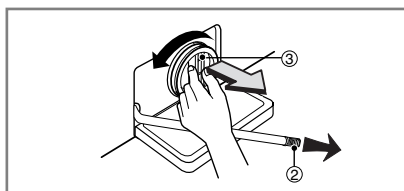
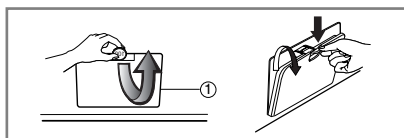
* The drain filter collects threads and small objects left in the laundry.

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 any threads or objects.

Be careful when draining if the water is hot.

* Allow the water to cool down before cleaning the drain pump.



1. Open the lower cover cap. Hold the drain plug and gently 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.

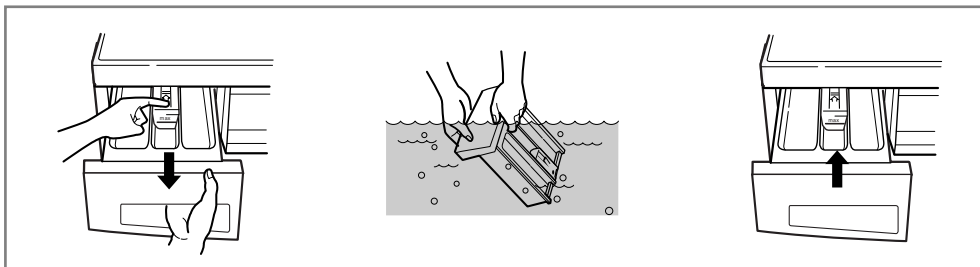
3. Remove out any foreign material from the pump filter (③).

4. After cleaning, refit the filter and drain plug caps and turn clockwise to tighten. Please take caution not to cross thread the cap. Close the lower cover cap.

Maintenance

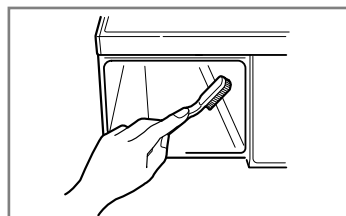
■ Dispenser drawer

- * 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 downwards 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.
Scrud is an accumulation of residual detergent and fabric softener which adheres itself to the inner bowl over time. To reduce or avoid scrud from forming, avoid using excessive detergent and fabric softener, and use warm water to wash as often as possible.
- 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.
- * Remove any spots with a stainless steel cleaning agent.
- * Never use steel wool.

Maintenance

■ 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. Do not use pre stain removal chemicals near or on the machine as they can damage the machines finish and control panel.

2. Interior

Dry around the washer door opening, flexible gasket and door glass.

Run the washer with no load through a complete cycle using hot water.

Repeat process if necessary.

NOTE Remove hard water deposits using only cleaners labeled as washer safe.

■ Cold condition

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 4 liters 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 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	<ul style="list-style-type: none"> Foreign objects such as coins or safety pins maybe in drum or pump. 	<p>Stop washer and check drum and drain filter.</p> <p>If noise continues after washer is restarted, call your authorised service centre.</p>
Thumping sound	<ul style="list-style-type: none"> Heavy wash loads may produce a thumping sound. This is usually normal. 	<p>If sound continues, washer is probably out of balance. Stop and redistribute wash load.</p>
Vibrating noise	<ul style="list-style-type: none"> Have all the transit bolts and packing been removed? Are all the feet resting firmly on the ground? 	<p>If not removed during installation. Refer to Installation guide for removing transit bolts.</p> <p>Wash load may be unevenly distributed in drum. Stop washer and rearrange wash load.</p>
Water leaks.	<ul style="list-style-type: none"> Fill hoses or drain hose are loose at tap or washer. House drain pipes are clogged. 	<p>Check and tighten hose connections.</p> <p>Unclog drain pipe. Contact plumber if necessary.</p>
Oversudsing		<p>Too much detergent or unsuitable detergent may cause excessive foaming which may result in water leaks.</p>
Water does not enter washer or it enters slowly	<ul style="list-style-type: none"> Water supply is not adequate in area. Water supply tap is not completely open. Water inlet hose(s) are kinked. The filter of the inlet hose(s) clogged. 	<p>Check another tap in the house.</p> <p>Fully open tap.</p> <p>Straighten hose.</p> <p>Check the filter of the inlet hose.</p>
Water in the washer does not drain or drains slowly.	<ul style="list-style-type: none"> Drain hose is kinked or clogged. The drain filter is clogged. 	<p>Clean and straighten the drain hose.</p> <p>Clean the drain filter</p>

Troubleshooting guide

Symptom	Possible Cause	Solution
Washer does not start	<ul style="list-style-type: none"> • Electrical power cord may not be plugged in or connection may be loose. • House fuse blown, circuit breaker tripped, or a power outage has occurred. • Water supply tap is not turned on. 	<p>Make sure plug fits tightly in wall outlet.</p> <p>Reset circuit breaker or replace fuse. Do not increase fuse capacity. If problem is a circuit overload, have it corrected by a qualified electrician. Turn on water supply tap.</p>
Washer will not spin	<ul style="list-style-type: none"> * Check that the door is firmly shut. 	<p>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.</p>
Door does not open		<p>Once started, the door can not be opened for safety reasons. Wait one or two minutes after powering off or pressing Start/Pause before opening the door to give the electric locking mechanism time to release.</p>
Wash cycle time delayed		<p>The washing time may vary by the amount of laundry, water pressure, water temperature and other usage conditions. If imbalance is detected or if the suds removing program works, the wash time will be increased.</p>

Troubleshooting guide

Symptom	Possible Cause	Solution
	<ul style="list-style-type: none"> • Water supply is not adequate in area. • Water supply taps are not completely open. • Water inlet hose(s) are kinked. • The filter of the inlet hose(s) are clogged. 	<p>Check another tap in the house. Fully open tap. Straighten hose(s). Check the filter of the inlet hose.</p>
	<ul style="list-style-type: none"> • Drain hose is kinked or clogged. • The drain filter is clogged. 	<p>Clean and straighten the drain hose. Clean the drain filter.</p>
	<ul style="list-style-type: none"> • Load is too small. • Load is out of balance. • The appliance has an imbalance detection and correction system. If individual heavy articles are loaded (ex. bath mat, bath robe, etc.) this system may stop spinning or even interrupt the spin cycle altogether. • 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. 	<p>Add 1 or 2 similar items to help balance the load. Rearrange load to allow proper spinning</p>
 	<ul style="list-style-type: none"> • Is the door opened? 	<p>Close the door. * If “dE” is not released, call for service.</p>
		<p>Unplug the power plug and call for service.</p>
	<ul style="list-style-type: none"> • Water overfills due to the faulty water valve. 	<p>Close the water tap. Unplug the power plug. Call for service.</p>
	<ul style="list-style-type: none"> • Water level sensor has malfunctioned. 	
	<ul style="list-style-type: none"> • Over load in motor. 	
	<ul style="list-style-type: none"> • Over load in motor. 	
	<ul style="list-style-type: none"> • The washer experienced a power failure. 	<p>Restart the cycle.</p>

Terms of Warranty

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 warranted for 6 months (180 days) only based on the above conditions.

(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.



LG Electronics Inc.