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LG
Life's Good

OWNER'S MANUAL

WASHING MACHINE

Before beginning installation, read these instructions carefully. This will simplify installation and ensure that the product is installed correctly and safely. Leave these instructions near the product after installation for future reference.

ENGLISH

FV1207S5W

MFL71852914
Rev.00_072221

www.lg.com

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This manual may contain images or content that may be different from the model you purchased.

This manual is subject to revision by the manufacturer.

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SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USE

The following safety guidelines are intended to prevent unforeseen risks or damage from unsafe or incorrect operation of the appliance. The guidelines are separated into 'WARNING' and 'CAUTION' as described below.

Safety Messages

⚠ This symbol is displayed to indicate matters and operations that can cause risk. Read the part with this symbol carefully and follow the instructions in order to avoid risk.

⚠ **WARNING**
This indicates that the failure to follow the instructions can cause serious injury or death.

⚠ **CAUTION**
This indicates that the failure to follow the instructions can cause the minor injury or damage to the product.

WARNING

⚠ WARNING

To reduce the risk of explosion, fire, death, electric shock, injury or scalding to persons when using this product, follow basic precautions, including the following:

Technical Safety

- 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.

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- Children should be supervised to ensure that they do not play with the appliance.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Use a new hose or hose-set supplied with the appliance. Reusing old hoses can cause a water leak and subsequent property damage.
- Ventilation openings must not be obstructed by a carpet.
- This appliance is intended to be used in household only.
- The inlet water pressure must be between 50 kPa and 800 kPa.

Maximum Capacity

The maximum capacity in some cycles for dry clothes to be washed is **7 kg.**

The recommended maximum capacity for each washing programme may differ. To get good wash results, please refer to **Programme Table** in **OPERATION** chapter for further details.

Installation

- Never attempt to operate the appliance if it is damaged, malfunctioning, partially disassembled, or has missing or broken parts, including a damaged cord or plug.
- This appliance should only be transported by two or more people holding the appliance securely.
- Do not install the appliance in a damp and dusty place. Do not install or store the appliance in any outdoor area, or any area that is subject to weathering conditions such as direct sunlight, wind, rain, or temperatures below freezing.
- Make sure the power plug is completely pushed into the power outlet.
- Do not plug the appliance into multiple outlet sockets, power boards, or an extension power cable.

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- Do not modify the power plug provided with the appliance. If it does not fit the power outlet, have a proper outlet installed by a qualified electrician.
- This appliance is equipped with a power cord having an equipment-earthing / grounding conductor (earthing pin) and a grounding power plug. The power plug must be plugged into an appropriate outlet socket that is installed and earthed / grounded in accordance with all local codes and ordinances.
- Improper connection of the equipment-grounding conductor can result in risk of electric shock. Check with a qualified electrician or service personnel if you are in doubt as to whether the appliance is properly grounded.
- This appliance must not be installed behind a lockable door, a sliding door or a door with a hinge on the opposite side to that of the appliance, in such a way that a full opening of the appliance door is restricted.

Operation

- Do not apply any sharp objects to the control panel in order to operate the appliance.
- Do not attempt to separate any panels or disassemble the appliance.
- Do not repair or replace any part of the appliance. All repairs and servicing must be performed by qualified service personnel unless specifically recommended in this Owner's Manual. Use only authorized factory parts.
- Do not push down the door excessively, when the appliance door is open.
- Do not put animals, such as pets into the appliance.
- Do not wash rugs, mats, shoes or pet blankets, stuffed toys, or any other items other than clothes or sheets, in this machine.
- Keep the area underneath and around the appliance free of combustible materials such as lint, paper, rags, chemicals, etc.
- Do not leave the appliance door open. Children may hang on the door or crawl inside the appliance, causing damage or injury.

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- Do not put in, wash or dry articles that have been cleaned in, washed in, soaked in, or spotted with combustible or explosive substances (such as waxes, wax removers, oil, paint, gasoline, degreasers, drycleaning solvents, kerosene, petrol, spot removers, turpentine, vegetable oil, cooking oil, acetone, alcohol, etc.). Improper use can cause fire or explosion.
- Do not use or store flammable or combustible substances (ether, benzene, alcohol, chemical, LPG, combustible spray, gasoline, thinner, petroleum, insecticide, air freshener, cosmetics, etc.) near the appliance.
- Never reach into the appliance while it is operating. Wait until the drum has completely stopped.
- Do not touch the door during a high temperature programme.
- In case of a water leak from the appliance or flood, disconnect the power plug and contact the LG Electronics customer information centre.
- Turn off water taps to relieve pressure on hoses and valves and to minimize leakage if a break or rupture should occur. Check the condition of the fill hoses; they should be replaced after 5 years.
- If there is a gas leakage (isobutane, propane, natural gas, etc.) within the home, do not touch the appliance or power plug and ventilate the area immediately.
- If the drain hose or inlet hose is frozen during winter, use it only after thawing.
- Keep all washing detergents, softener and bleach away from children.
- Do not touch the power plug or the appliance controls with wet hands.
- Do not bend the power cable excessively or place a heavy object on it.
- Avoid touching any water that is drained from the appliance during the wash.
- Make sure that drainage is working properly. If water is not drained properly, your floor may get flooded.

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- When the air temperature is high and the water temperature is low, condensation may occur and thus wet the floor.
- Wipe off dirt or dust on the contacts of the power plug.

Maintenance

- Disconnect the appliance from the power supply before cleaning the appliance. Setting the controls to the OFF or stand by position does not disconnect this appliance from the power supply.
- Securely plug the power plug in the outlet socket after completely removing any moisture and dust.
- Do not spray water inside or outside the appliance to clean it.
- Never unplug the appliance by pulling on the power cable. Always grip the power plug firmly and pull straight out from the outlet socket.
- Only qualified service personnel from LG Electronics service centre should disassemble, repair, or modify the appliance. Contact an LG Electronics customer information centre if you move and install the appliance in a different location.

Disposal

- Before discarding an old appliance, unplug it. Cut off the cable directly behind the appliance to prevent misuse.
- Dispose of all packaging materials (such as plastic bags and styrofoam) away from children. The packaging materials can cause suffocation.
- Remove the door before disposing of or discarding this appliance to avoid the danger of children or small animals getting trapped inside.

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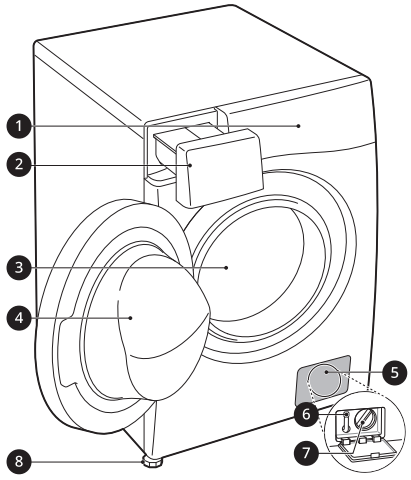
INSTALLATION

Parts and Specifications

NOTE

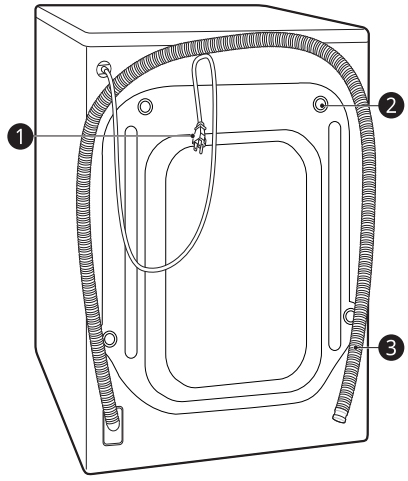
- Appearance and specifications may change without notice to improve the quality of the appliance.

Front View



❶ Control Panel
❷ Detergent Dispenser Drawer
❸ Drum
❹ Door
❺ Cover Cap
❻ Drain Plug
❼ Drain Pump Filter
❽ Levelling Feet

Rear View



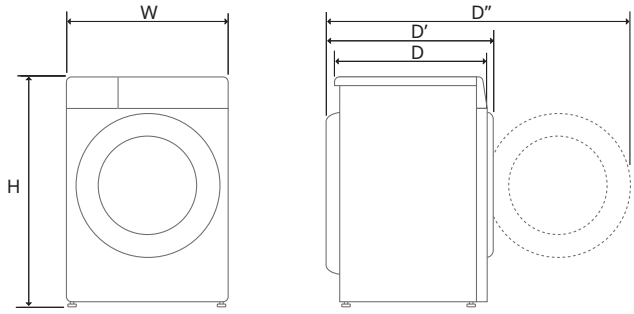
❶ Power Plug
❷ Transit Bolts
❸ Drain Hose

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Specifications

Model	FV1207S5W
Power Supply	230 V~, 60 Hz
Product Weight	56 kg

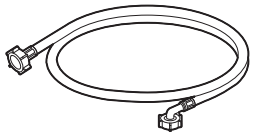
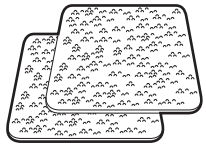
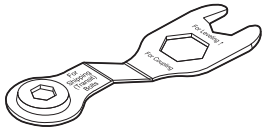
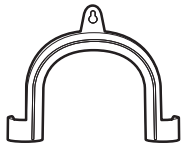
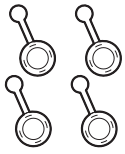
Dimension(mm)



W	600	D	475	D''	1015
H	850	D'	535		

Accessories

*1 The included accessories vary depending on the model you purchased.

 Cold Supply Hose	 Anti–slip Sheets*1
 Spanner	 Elbow Bracket for Securing Drain Hose
 Caps for Covering Transit Bolt Holes	 Tie Strap*1

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Installation Place Requirements

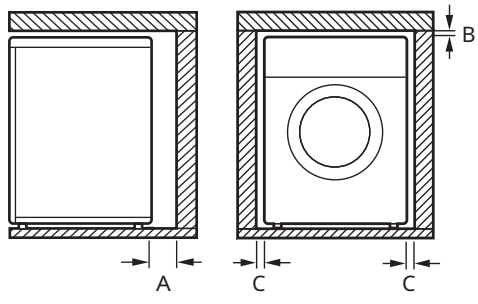
Before installing the appliance, check the following information to make sure that the appliance should be installed in a correct place.

Installation Location

- This appliance must be installed on firm flooring to minimize vibration during the spin cycle. Concrete flooring is best, being far less prone to vibration during the spin cycle than wooden floorboards or a carpeted surface.
- If it is impossible to avoid positioning the appliance next to a gas cooker or coal burning stove, an insulation (850 X 600 mm) covered with aluminum foil on the side facing the cooker or stove must be inserted between the two appliances.
- Ensure that when the appliance is installed, it is easily accessible for an engineer in the event of a breakdown.
- When installing the appliance, adjust all four feet using the transit bolt spanner provided to ensure the appliance is stable.

Floor Installation

To ensure sufficient clearance for water inlet hoses, drain hose and airflow, allow minimum clearances of at least 20 mm at the sides and 100 mm behind the appliance. Be sure to allow for wall, door, or floor moldings that may increase the required clearances.



Index	Clearance (mm)
A	100

Index	Clearance (mm)
B	5
C	20

⚠ WARNING

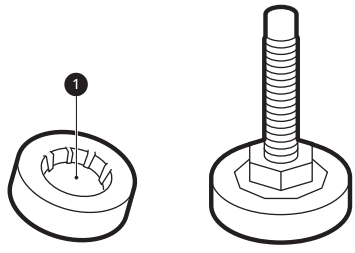
- This appliance must only be used for domestic household purposes and should not be used in mobile applications.

NOTE

- Never try to level any uneven floor by putting pieces of wood, cardboard or similar materials under the appliance.

Wooden Floors (Suspended Floors)

When installing the appliance on wooden floors, use rubber cups to reduce excessive vibration and unbalance. Timber or suspended type flooring may contribute to excessive vibration and unbalance, errors and malfunction.



- To reduce vibration, we recommend placing at least 15 mm thickness of rubber cups ❶ under each adjusting foot of the appliance, secured to at least two floor beams with screws.
- If possible, install the appliance in one of the corners of the room, where the floor is more stable.
- Fit the rubber cups to reduce vibration.

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⚠ CAUTION

- If the appliance is installed on the unstable floor (e.g. wooden floor), the warranty does not cover any damages and cost occurred due to the installation on the unstable floor.

NOTE

- You can purchase rubber cups (part No. **4620ER4002B**) from the LG service centre.

⚠ WARNING

- Repairs to the appliance must only be carried out by qualified personnel. Repairs carried out by inexperienced persons may cause injury or serious malfunctioning. Contact your local authorised LG repairer.
- The power plug must be plugged into an appropriate outlet socket that is installed and grounded/earthed in accordance with all local codes and ordinances.

Ventilation

- Make sure that air circulation around the appliance should not be impeded by carpets, rugs, etc.

Ambient Temperature

- Do not install the appliance in rooms where freezing temperatures 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 winter and temperatures are below freezing, place the appliance at room temperature for a few hours before putting it into operation.

Electrical Connection

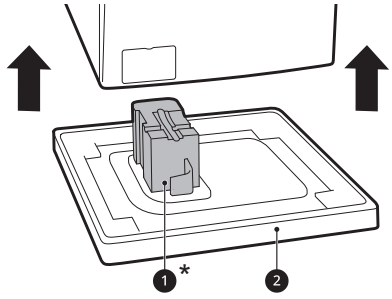
- Do not use an extension cord or double adapter.
- Always unplug the appliance and turn off the water supply after use.
- Connect the appliance to an earthed socket in accordance with current wiring regulations.
- The appliance must be positioned so that the plug is easily accessible.
- Power outlet must be within 1 meter of either side of the appliance.

Unpacking the Appliance

Lifting the Appliance Off the Foam Base

* This feature may vary depending on the model purchased.

After removing the carton and shipping material, lift the appliance off the foam base.



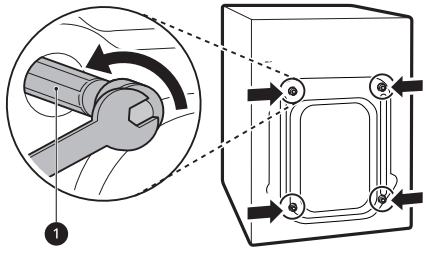
- Make sure the tub support ❶* comes off with the base and is not stuck to the bottom of the appliance.
- If you must lay the appliance down to remove the carton base ❷, always protect the side of the appliance and lay it carefully on its side. Do not lay the appliance on its front or back.

Removing the Transit Bolt Assemblies

To prevent the appliance from severe vibration and breakage, remove transit bolts and retainers.

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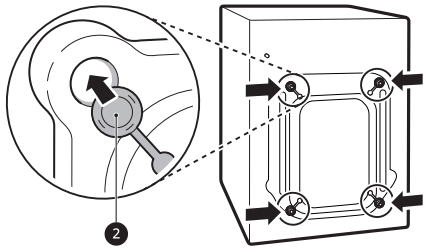
1 Starting with the bottom two transit bolts ❶, use the spanner (included) to fully loosen all transit bolts by turning them counterclockwise.



2 Remove the bolt assemblies by wiggling them slightly while pulling them out.

3 Install the hole caps.

- Locate the hole caps ❷ included in the accessory pack or attached on the back.



NOTE

- Save the transit bolts and retainers for future use.
- Transport this appliance for the prevention of breakage as below:
  - The transit bolts are reinstalled.
  - The power cord is secured to the back of the appliance.

Levelling the Appliance

Checking the Level

When pushing down the edges of the top plate diagonally, the appliance should not move up and down at all (check both directions).

- If the appliance rocks when pushing the top plate of the appliance diagonally, adjust the feet again.
- Check whether the appliance is perfectly level after installation.

NOTE

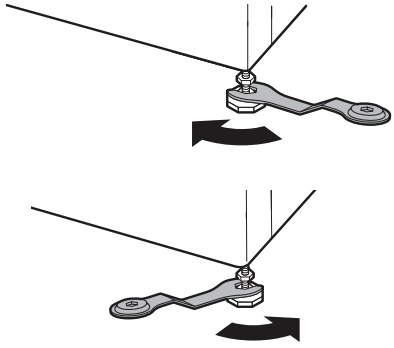
- Timber or suspended type flooring may contribute to excessive vibration and unbalance. Reinforcement or bracing of the timber floor may need to be considered to stop or reduce excessive noise and vibration.

Adjusting and Levelling the Feet

When installing the appliance, the appliance should be aligned and perfectly level. If the appliance is not aligned and level properly, the appliance may be damaged or may not operate properly.

1 Turn the levelling feet as required if the floor is uneven.

- Do not insert pieces of wood etc. under the feet.
- Make sure that all four feet are stable and resting on the floor.

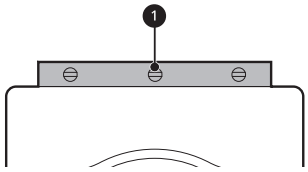


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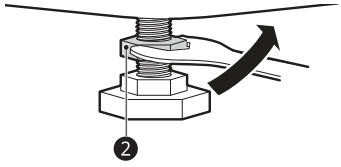
NOTE

- Do not install the washing machine on a plinth, stand or elevated surface unless it is manufactured by LG Electronics for use with this model.

2 Check if the appliance is perfectly level using a spirit level ❶.



3 Secure the levelling feet with the lock nuts ❷ by turning anti-clockwise against the bottom of the appliance.



4 Check if all lock nuts at the bottom of the appliance are secured properly.

NOTE

- Proper placement and levelling of the appliance will ensure long, regular, and reliable operation.
- The appliance must be 100% horizontal and stand firmly in position on a hard flat floor.
- It must not 'Seesaw' across corners under the load.
- Do not let the feet of the appliance get wet. Failure to do so may cause vibration or noise.

Using Anti-Slip Sheets

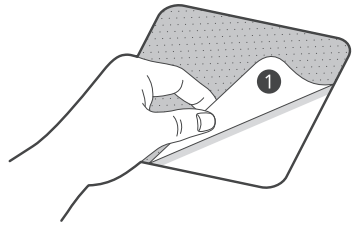
This feature may vary depending on the model purchased.

If you install the appliance on a slippery surface, it may move because of excessive vibration. Incorrect levelling may cause malfunction through noise and vibration. If this occurs, install the anti-slip sheets under the levelling feet and adjust the level.

1 Clean the floor to attach the anti-slip sheets.
- Use a dry rag to remove and clean foreign objects and moisture. If moisture remains, the anti-slip sheets may slip.

2 Adjust the level after placing the appliance in the installation area.

3 Place the adhesive side ❶ of the anti-slip sheets on the floor.
- The most effective way is to install the anti-slip sheets under the front feet. If it is difficult to place the sheets under the front feet of the appliance, attach them under the rear feet.



4 Put the appliance on the anti-slip sheets.
- Do not attach the adhesive side ❶ of anti-slip sheets to the feet of the appliance.

NOTE

- Additional anti-slip sheets are available at LG Electronics service centre.

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Connecting the Water Supply Hose

Note for Connection

- Water pressure must be between **50 kPa** and **800 kPa** (0.5–8.0 kgf/cm^2). If the water pressure is more than **800 kPa**, a decompression device should be installed.
- Periodically check the condition of the water supply hose and replace the water supply hose if necessary.

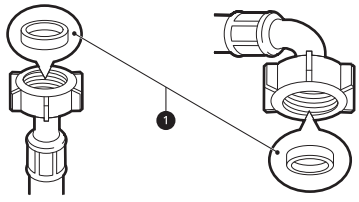
NOTE

- Do not overtighten the water supply hose or use mechanical devices to tighten onto the inlet valves.
- No further backflow protection required for connection to the water inlet.

Checking the Rubber Seal

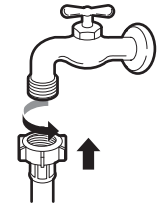
Two rubber seals ❶ are supplied with the water supply hose. They are used to prevent water leaks. Connection to taps is sufficiently tight.

- Do not use mechanical devices such as multi grips to tighten the water supply hose. Ensure that the curved end of the water supply hose is connected to the appliance.



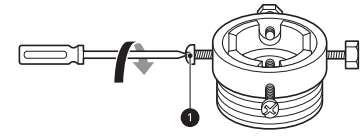
Connecting the Hose to the Water Tap

Connecting Screw-Type Hose to Tap with Thread
Screw the supply hose connector onto the water supply tap.

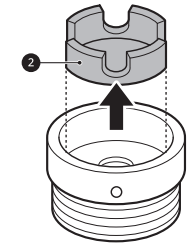


Connecting Screw-Type Hose to Tap Without Thread

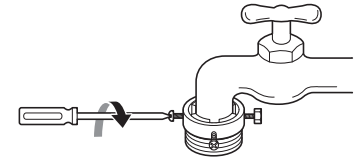
1 Loosen the 4 fixing screws ❶.



2 Remove the guide plate ❷ if the tap is too large to fit the adapter.



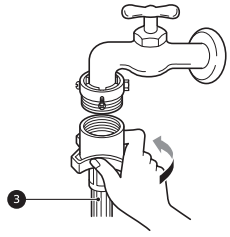
3 Push the adapter onto the end of the tap so that the rubber seal is connected to be watertight. Tighten the 4 fixing screws.



4 Push the inlet hose ❸ vertically upwards so that the rubber seal within the hose can adhere

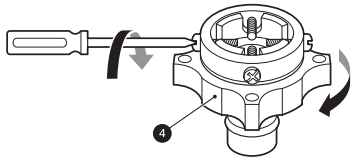
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completely to the tap and then tighten the hose by screwing it to the right.

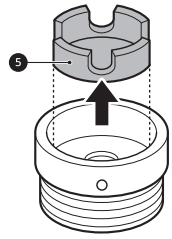


Connecting One Touch Type Hose to Tap Without Thread

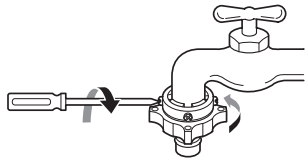
1 Unscrew the adapter ring plate ❹ and loose the 4 fixing screws.



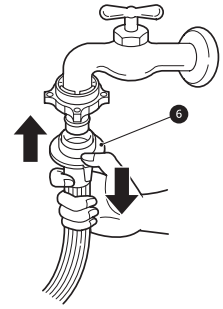
2 Remove the guide plate ❺ if the tap is too large to fit the adapter.



3 Push the adapter onto the end of the tap so that the rubber seal is connected to be watertight. Tighten the 4 fixing screws and the adapter ring plate.



4 Pull the connector latch plate ❻ down, push the inlet hose onto the adapter, and release the connector latch plate. Make sure the adapter locks into place.

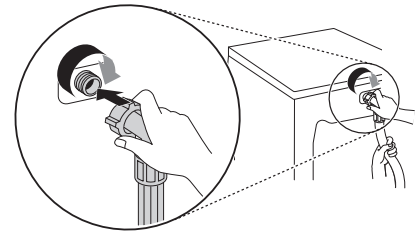


NOTE

- After connecting the water inlet hose to the water tap, turn on the water tap to flush out foreign substances (dirt, sand, sawdust, and etc.) in the water lines. Let the water drain into a bucket, and check the water temperature.

Connecting the Hose to the Appliance

Screw the supply hose to the water inlet valve on the back of the appliance.



- Do not connect the hose to the hot water supply for models with one water inlet. Connect to the cold water supply only.

NOTE

- After completing connection, if water leaks from the hose, repeat the same steps. Use the most conventional type of tap for the water supply. In case that the tap is square or too big, remove the guide plate before inserting the tap into the adaptor.

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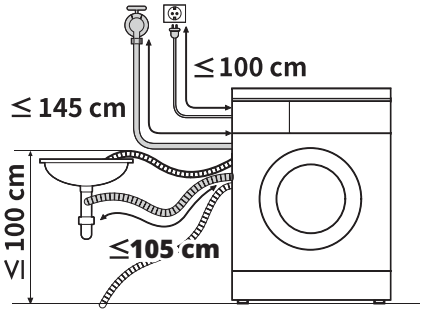
- Make sure that the hose should not be kinked or trapped.

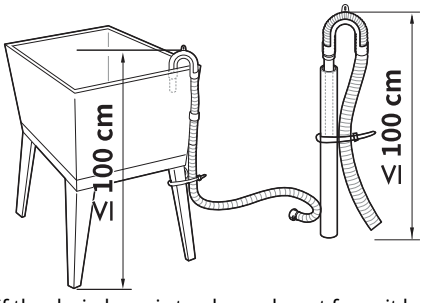
Installing the Drain Hose

Installing the Drain Hose with the Elbow Bracket

The drain hose should not be placed higher than **100 cm** above the floor. Water in the appliance may not drain or may drain slowly.

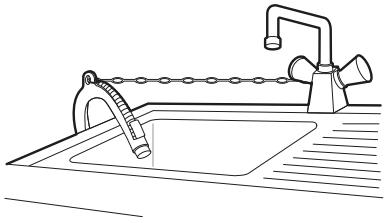
- Securing the drain hose correctly will protect the floor from damage due to water leakage.





- If the drain hose is too long, do not force it back into the appliance. This will cause abnormal noise.

- When installing the drain hose to a sink, secure it tightly with string.



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OPERATION

Operation Overview

Using the Appliance

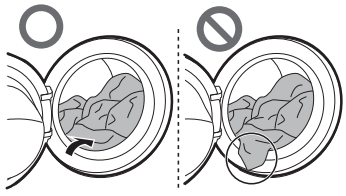
Before the first wash, select the **Cotton** wash programme and add a half amount of the detergent. Start the appliance without clothes. This will remove possible residues and water from the drum that may have been left during manufacturing.

1 Sort clothes and load items.

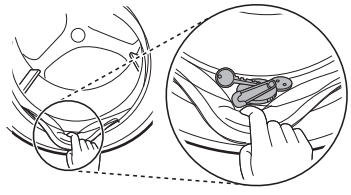
- Sort clothes by fabric type, soil level, colour and load size as needed. Open the door and load items into the appliance.

⚠ CAUTION

- Before closing the door, ensure that all clothes and items are inside the tub and not overhanging on the rubber door seal where they will become caught when the door is closed. Failing to do so will cause damage to the door seal and the clothes.



- Remove items from the flexible door seal gasket to prevent clothing and door seal damage.



2 Add cleaning products or detergent and softener.

- Add the proper amount of detergent to the detergent dispenser. If desired, add bleach or fabric softener to the appropriate areas of the dispenser.

3 Turn on the appliance.

- Press the **Power** button to turn on the appliance.

4 Choose the desired cycle.

- Press the cycle button repeatedly or turn the cycle selector knob until the desired cycle is selected.
- Now select a wash temperature and spin speed. Pay attention to the fabric care label of your clothes.
- Pressing the **Start/Pause** button without selecting a programme will cause the **Cotton** programme to begin immediately, using the default settings.

5 Begin cycle.

- Press the **Start/Pause** button to begin the cycle. The appliance will agitate briefly without water to measure the weight of the load. If the **Start/Pause** button is not pressed within a certain time, the appliance will shut off and all settings will be lost.

6 End of cycle.

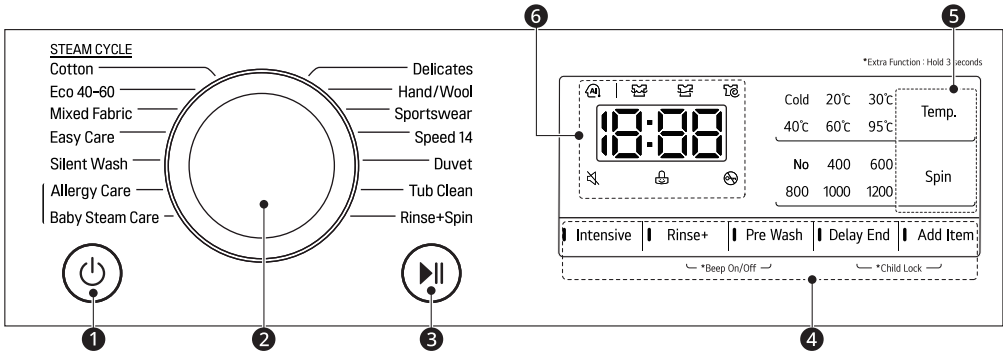
- When the cycle is finished, a melody will sound. Immediately remove your clothing from the appliance to reduce wrinkling. Check around the door seal when removing the load for small items that may be caught in the seal.

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Control Panel

The actual control panel may differ from model to model.

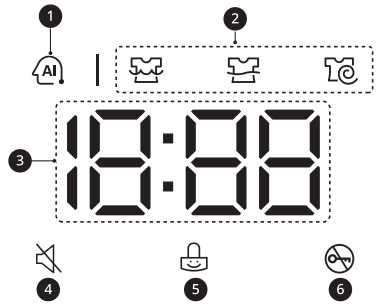
Control Panel Features



	Description
❶	**Power On/Off Button** • Press this button to turn the washing machine on.
❷	**Programme Knob** • Programmes are available according to the clothes type. • The lamp will light up to indicate the selected programme.
❸	**Start/Pause Button** • This button is used to start the wash cycle or pause the wash cycle. • If a temporary stop of the wash cycle is needed, press this button.
❹	**Extra Options and Functions** • To use the extra functions, press and hold the corresponding button for 3 seconds. The corresponding symbol lights up in the display. • This allows you to select an additional programmes and will light when selected.
❺	**Customizing Washing Programme Buttons** Use these buttons to adjust the water temperature or spin speed settings for the selected programme. • The current settings are shown in the display. • Press the button for that option to select other settings.
❻	**Display** • The display shows the settings, estimated remaining time, options, and status messages. When the appliance is turned on, the default settings in the display will illuminate. • While the load weight is sensed automatically, the display on the control panel blinks.

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Time and Status Display



	Description
❶	**AI DD** • **AI DD** AI provides the appropriate drum rotation actions after load sensing is completed. • AI is activated when the **Cotton**, **Mixed Fabric**, and **Easy Care** programmes are selected and operated.
❷	**Programme Status Indicators** • When a washing programme is running, LED for the active stage will blink, and the LEDs for the remaining stages will remain steady. Once a stage is complete, the LED will turn off. If a cycle is paused, the active stage LED will stop blinking.
❸	**Estimated Time Remaining** • When a washing programme is selected, the default time for that programme is displayed. This time will change as options are selected. • If the display shows `---` , then the time will be displayed after the load sensing has detected the load size. This is normal. • The time shown is only an estimate. This time is based on normal operating conditions. Several external factors (load weight, room temperature, incoming water temperature, etc.) can affect the actual time.
❹	lights up when the beep is off.
❺	lights up when the control panel is locked except for the **Power** button.
❻	lights up when the programme starts and the door is locked.

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Preparing the Wash Load

Sort the wash load for best washing results, and then prepare the clothes according to the symbols on their care labels.

Sorting the Clothes

- For best washing results, sort your clothes according to the care label stating fabric type and washing temperature. Adjust the spin speed or spin intensity in accordance with the fabric type.
- Soil level (Heavy, Normal, Light): Separate clothes according to soil level. If possible, do not wash heavily soiled items with lightly soiled ones.
- Colour (White, Lights, Darks): Wash dark or dyed clothes separately from whites or light colours. Mixing dyed clothes with light clothes can result in dye transfer or discolouration of lighter clothes.
- Lint (Lint producers, Collectors): Wash separately lint producing fabrics from lint collecting fabrics. Lint producers can result in pilling and linting on the lint collectors.

Checking the Clothes Care Label

The symbols tell you about the fabric content of your garment and how it should be washed.

Symbols on the Care Labels

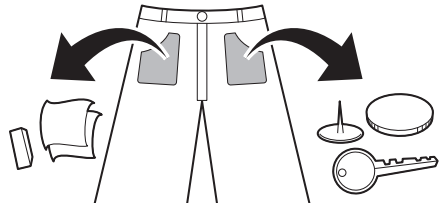
Symbol	Wash / Fabric type
	• Normal Wash • Cotton, Mixed Fabrics
	• Easy Care • Synthetic, Mixed Fabrics
	• Special Delicate Wash • Delicates
	• Hand Wash Only • Wool, Silk
	• Do not wash

NOTE

- The dashes under the symbol give you information about the type of fabric and the maximum allowance of mechanical stress.

Checking the Clothes before Loading

- To help distribute the load evenly during spinning, combine large and small items in a load.
- Do not wash single small items. Add 1-2 similar items to the load to prevent an out-of-balance load.
- Check all pockets to make sure that they are empty. Items such as nails, hair clips, matches, pens, coins and keys can damage both your appliance and clothes.



- Wash delicates (stockings, underwired bras) in a wash net.
- Close zippers, hooks and strings to make sure that these items do not snag on other clothes.
- Pre-treat dirt and stains by brushing a small amount of detergent dissolved water onto stains to help lift dirt.

Adding Detergents and Softeners

Detergent Dosage

- Detergent should be used according to the instruction of the detergent manufacturer and selected according to type, colour, soiling of the fabric and the washing temperature. Use only

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detergents that are suitable for Drum (front load) type washers.

- If too many suds occur, reduce the detergent amount.
- If too much detergent is used, too many suds can occur and this will result in poor washing results or cause heavy load to the motor.
- If you wish to use liquid detergent, follow the guidelines provided by the detergent manufacturer.
- You can pour liquid detergent directly into the main detergent drawer if you are starting the wash cycle immediately.
- Do not use liquid detergent if you are using the **Delay End** function, or if you have selected **Pre Wash** option, as the liquid will dispense immediately and may harden in the drawer or the tub.
- Detergent usage may need to be adjusted for water temperature, water hardness, size and soil level of the load. For best results, avoid overdosing the detergent. Failing to do so will cause oversudsing.
- Refer to the label of the clothes, before adding the detergent and choosing the water temperature.
- Use only suitable detergents for the respective type of clothing:
  - Liquid detergent is often designed for special applications, e.g. for coloured fabric, wool, delicate or dark clothes.
  - Powdered detergent is suitable for all types of fabric.
  - For better washing results of white and pale garments, use powdered detergent with bleach.
  - Detergent is flushed from the dispenser at the beginning of the wash cycle.

NOTE

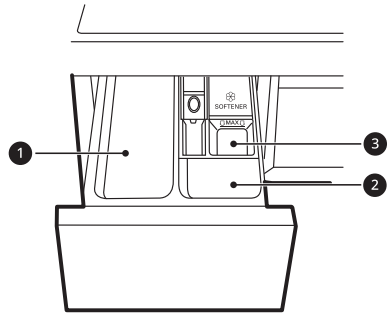
- Do not let the detergent harden. Doing so may lead to blockages, poor rinse performance or odour.
- Full load: According to manufacturer's recommendation.
- Part load: 1/2 of the normal amount.
- Minimum load: 1/3 of full load.

Using the Dispenser

To add detergent dosage to the dispenser:

1 Open the dispenser drawer.

2 Add the detergent and softener into the appropriate compartments.



❶ Main wash detergent compartment

❷ Pre-wash detergent compartment

❸ Liquid fabric softener compartment

3 Gently close the detergent dispenser drawer before starting the cycle.

- Slamming the drawer closed may result in the detergent overflowing into another compartment or dispensing into the drum earlier than programmed.
- Be careful not to get a hand caught in the drawer while closing.
- It is normal for a small amount of water to remain in the dispenser compartments at the end of the cycle.

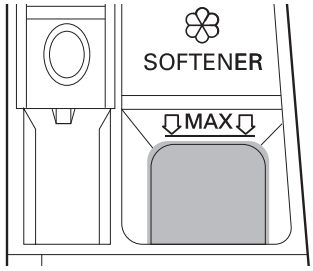
Fabric Softener Compartment

This compartment holds liquid fabric softener, which is automatically dispensed during the final rinse cycle. Either powdered or liquid fabric softener may be used.

- Pour fabric softer to the maximum fill line. Pouring excessive fabric softener over the

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maximum fill line can cause it to dispense too early, which may stain the clothes.



NOTE

- Do not pour fabric softener directly onto the clothes in the wash drum, doing so will cause dark staining on the clothes that will be difficult to remove.
- Do not leave the fabric softener in the detergent drawer for more than 1 day. Fabric softener may harden. Softener may remain in the dispenser if it is too thick. The softener should be diluted if the consistency is too thick so that it can flow easily.
- Do not open the drawer when water is being supplied during the wash.
- Solvents (benzene, etc.) must never be used.

Adding Detergent Tablets

Detergent tablets can also be used when washing.

1 Open the door and put detergent tablets into the drum before loading the clothes.

2 Load the clothes into the drum and close the door.

NOTE

- Do not put tablets into the dispenser.

Adding Water Softener

A water softener, such as anti-limescale can be used to cut down on the use of detergent in areas with high water hardness level.

- First add detergent, and then the water softener. Dispense according to the amount specified on the packaging.

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Programme Table

Washing Programme

Cotton	**40 °C (Cold to 95 °C)**	**Max. Load: Rating**
Description	Washes normally soiled clothes by combining various drum motions.	

Eco 40-60	**40 °C (40 °C to 60 °C)**	**Max. Load: Rating**
Description	Washes normally soiled cotton clothes declared to be washable at 40 °C or 60 °C.	

Mixed Fabric	**40 °C (Cold to 60 °C)**	**Max. Load 4 kg**
Description	Washes mixed fabrics simultaneously. • Use for various kind of fabrics except special garments (silk/delicate, sports wear, dark clothes, wool, duvet/curtains).	

Easy Care	**40 °C (Cold to 60 °C)**	**Max. Load 4 kg**
Description	Washes clothes that do not need ironing after washing. • Use for Polyamide, acrylic, polyester.	

Silent Wash	**40 °C (Cold to 60 °C)**	**Max. Load 4 kg**
Description	Washes clothes with less noise and vibration than other washing programmes. • Use for lightly soiled white cotton (underwear).	

Allergy Care	**60 °C**	**Max. Load 4 kg**
Description	Helps minimise substances that cause an allergic reaction. • Use for cotton, underwear, pillow covers, bed sheets, baby wear.	

Baby Steam Care	**60 °C**	**Max. Load 4 kg**
Description	Helps wash food stains from baby clothes.	

Delicates	**20 °C (Cold to 40 °C)**	**Max. Load 1.5 kg**
Description	Washes machine-washable lingerie, sheer and lacy clothes.	

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Hand/Wool	**30 °C (Cold to 40 °C)**	**Max. Load 2 kg**
Description	Washes hand-washable and machine-washable delicate clothes such as washable wool, lingerie, dresses etc. • Use detergent for machine washable woolens	

Sportswear	**40 °C (Cold to 40 °C)**	**Max. Load 2 kg**
Description	Washes special garments like sports and outdoor wear. • Use for water-repellent fabric laminate used on clothing.	

Speed 14	**20 °C (20 °C to 40 °C)**	**Max. Load 2 kg**
Description	Washes small loads of lightly soiled clothes for approximately 14 minutes.	

Duvet	**Cold (Cold to 40 °C)**	**Max. Load 2.5 kg (1 down duvet)**
Description	Washes large items such as bed covers, pillows, sofa covers, etc.	

Tub Clean	**-**	**-**
Description	This function helps clean the inside of your appliance's tub.	

Rinse+Spin	**-**	**Max. Load: Rating**
Description	Rinses and spins clothes. Use fabric softener if needed.	

NOTE

- Select the appropriate water temperature for chosen wash programme. Always follow garment manufacturer’s care label or instructions when washing to avoid damage to clothes.
- Select the proper wash temperature and spin speed for the desired programmes.
- Actual water temperature may differ from the declared cycle temperature.
- Neutral detergent is recommended.

Extra Options

NOTE

- **Rinse+**, **Delay End** and **Add Item** options can be selected for every washing programme in this table.

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Programme	Intensive	Pre Wash
Cotton	●	●
Eco 40-60	●	●
Mixed Fabric	●	●
Easy Care	●	●
Silent Wash	●	
Allergy Care	●	
Baby Steam Care	●	
Delicates	●	
Hand/Wool	●	
Sportswear	●	
Speed 14		
Duvet	●	

Selectable Maximum Spin Speed

Programme	Spin Speed	
	Default	**Available**
Cotton	1200 rpm	All
Eco 40-60	1200 rpm	All
Mixed Fabric	1000 rpm	All
Easy Care	1200 rpm	All
Silent Wash	800 rpm	Up to 1000 rpm
Allergy Care	1200 rpm	All
Baby Steam Care	1000 rpm	Up to 1000 rpm
Delicates	800 rpm	Up to 800 rpm
Hand/Wool	800 rpm	Up to 800 rpm
Sportswear	800 rpm	Up to 800 rpm

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Programme	Spin Speed	
	Default	Available
Speed 14	400 rpm	All
Duvet	1000 rpm	Up to 1000 rpm

NOTE

- Actual maximum spin speed may vary depending on the load conditions. The values above are rounded to the nearest hundred.

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Extra Options and Functions

You can use the extra options and functions to customize the programmes.

Customizing a Washing Programme

Each programme has default settings that are selected automatically. You may also customize these settings using these buttons.

Temp.
This button selects the wash temperature for the selected programme.

- Press the **Temp.** button until the desired setting is lit.
- Select the water temperature suitable for the type of load you are washing. Follow the garment fabric care labels for best results.

Spin
The spin intensity level can be selected by pressing this button repeatedly.

- Press the **Spin** button to select spin speed.

NOTE

- If **No** of the spin level is selected, the drum of the washing machine will rotate before the drainage.

Rinse+
This function is recommended for people with detergent allergies.

- Press the **Rinse+** button for adding rinse once.

Intensive
This function is used to wash normal and heavily soiled clothes.

- Press the **Intensive** button.

Follow the next steps to customize a washing programme:

1. Prepare the clothes and load the drum.
2. Press the **Power** button.
3. Add detergent.
4. Select a washing programme.
5. Customize the washing programme (**Temp.**, **Spin**, **Rinse+** and **Intensive**) as necessary.
6. Press the **Start/Pause** button.

Only Using a Spin Function

1. Prepare the clothes and load the drum.
2. Press the **Power** button.
   - Do not select a washing programme and do not add a detergent.
3. Press the **Spin** button.
4. Press the **Start/Pause** button.

NOTE

- If you select the washing programme, you will be unable to select a spin only. If this occurs, press **Power** button twice to cycle the machine off and back on.

Using Basic Options

You can customize the programmes by using the following basic options:

Pre Wash
This option is recommended when washing a heavily soiled load.

1. Press the **Power** button.
2. Select a washing programme.
3. Press the **Pre Wash** button as necessary.
4. Press the **Start/Pause** button.

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Add Item
You can use this option in order to add or remove clothes after the washing programme has started.

1 Press the **Power** button.

2 Select a washing programme.

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

4 Press the **Add Item** button as necessary.

5 Open the door after it unlocks itself and add or remove necessary clothing items.

6 Close the door and press the **Start/Pause** button.

NOTE

- For safety reasons, the door remains locked when the water level or temperature inside of the drum is high. It is not possible to add clothes at this time.

Delay End
You can set this function so that the appliance starts automatically and finishes after a specified time interval.

1 Press the **Power** button.

2 Select a washing programme.

3 Press the **Delay End** button as necessary.

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

NOTE

- Except for LED of the **Delay End** button, all LEDs on the control panel will be turned off within 20 minutes. This feature may vary depending on the model purchased.
- The delay time is the time to the end of the programme, not the start. The actual running time may vary due to water temperature, clothes and other factors.
- To cancel the function, the **Power** button should be pressed.
- Avoid using liquid detergent for this function.

Settings

Child Lock
Use this option to disable the controls. This function can prevent children from changing cycles or operating the appliance.

NOTE

- Once this function is set, all buttons are locked except the **Power** button.
- When the controls are locked, CL and the remaining time are alternatively shown on the display during the wash while this function is engaged.
- Turning off the power will not reset this function. You must deactivate this function before you can access any other functions.

Locking the Control Panel

1 Turn on the power.

2 Press and hold the **Delay End** and **Add Item** buttons at the same time for 3 seconds to activate this function.
   - A beeper will sound, and CL will appear on the display.

Unlocking the Control Panel

1 Turn on the power.

2 Press and hold the **Delay End** and **Add Item** buttons at the same time for 3 seconds to deactivate this function.

Beep On/Off
This appliance plays a melody when it starts and stops.

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- Press and hold the **Rinse+** and **Pre Wash** buttons simultaneously for 3 seconds to deactivate/activate this function.

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SMART FUNCTIONS

LG ThinQ Application

The **LG ThinQ** application allows you to communicate with the appliance using a smartphone.

LG ThinQ Application Feature

Communicate with the appliance from a smartphone using the convenient smart features.

Smart Diagnosis
This function provides useful information for diagnosing and solving issues with the appliance based on the pattern of use.

Installing the LG ThinQ Application

Search for the **LG ThinQ** application from the Google Play Store or Apple App Store on a smartphone. Follow instructions to download and install the application.

Smart Diagnosis

This feature is only available on models with the or logo.

Use this feature to help you diagnose and solve problems with your appliance.

NOTE

- For reasons not attributable to LGE's negligence, the service may not operate due to external factors such as, but not limited to, Wi-Fi unavailability, Wi-Fi disconnection, local app store policy, or app unavailability.
- The feature may be subject to change without prior notice and may have a different form depending on where you are located.

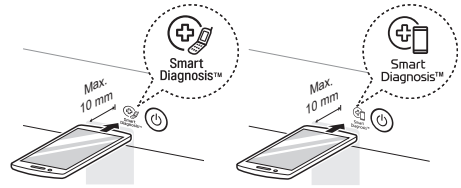
Using Audible Diagnosis to Diagnose Issues

Follow the instructions below to use the audible diagnosis method.

- Launch the **LG ThinQ** application and select the **Smart Diagnosis** feature in the menu. Follow the instructions for audible diagnosis provided in the **LG ThinQ** application.

1 Press the **Power** button to turn on the appliance.
   - Do not press any other buttons.

2 Place the mouthpiece of your smartphone close to the or logo.



3 Press and hold the **Temp.** button for 3 seconds or longer while holding the smartphone mouthpiece to the logo until the data transfer is complete.
   - Keep the smartphone in place until the data transfer has finished. Time remaining for data transfer is displayed.

4 After the data transfer is complete, the diagnosis will be displayed in the application.

NOTE

- For best results, do not move the smartphone while the tones are being transmitted.

ENGLISH

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MAINTENANCE

⚠ WARNING

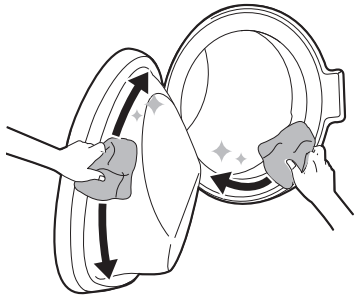
- Unplug the appliance before cleaning to avoid the risk of electric shock. Failure to follow this warning may result in serious injury, fire, electric shock, or death.
- Never use harsh chemicals, abrasive cleaners, or solvents to clean the appliance. They may damage the finish.

Cleaning After Every Wash

What to Clean

Always remove items from the washing machine as soon as the cycle is complete. Leaving damp items in the washing machine can cause wrinkling, colour transfer, and odour.

- After the wash cycle is finished, wipe the door and door seal to remove any moisture.
- Leave the door slightly open to dry the drum.
- Wipe the appliance with a dry cloth to remove any moisture.



⚠ WARNING

- Leave the door open to dry inside of the appliance only if the children are supervised at home.

Cleaning the Exterior

Proper care of your appliance can extend the service life.

Exterior

- Immediately wipe off any spills.
- Wipe with a damp cloth and then again with a dry cloth ensuring there is no moisture in cabinet joints or crevices.
- Do not press on the surface or the display with sharp objects.

Door

- Wash with a damp cloth on the outside and inside and then dry with a soft cloth.

⚠ WARNING

- Do not attempt to separate any panels or disassemble the appliance. Do not apply any sharp objects to the control panel in order to operate the appliance.

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Cleaning the Appliance Periodically & Performing an Emergency Water Evacuation

Tub Clean

This is a special function to help clean the inside of the appliance by soaking, washing, rinsing and spinning.

Run this function **once a month** (or more often if needed) to reduce build-up of detergent and softener and other residue.

- If there is a bad smell or mildew inside the appliance, run this function **once a week for 3 weeks** in addition to the regularly prompted intervals.

NOTE

- The tcL message will be displayed to alert to the recommendation of operating this function.

1. Remove any clothing or items from the appliance and close the door.
2. Open the dispenser drawer and add anti limescale powder to the main wash compartment.
   - Tablets can be placed directly into the drum as an alternative to powder.
3. Close the dispenser drawer slowly.
4. Turn on the power, and then select the **Tub Clean**.
5. Press the **Start/Pause** button to start.
6. Leave the door open to dry the inside of the appliance completely.
   - When the inside of the appliance is not dried completely, it may cause a bad smell or mildew.

⚠ WARNING

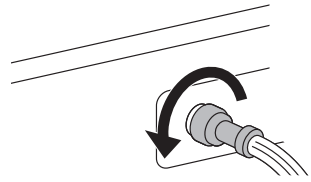
- Leave the door open to dry inside of the appliance only if the children are supervised at home.

Cleaning the Water Inlet Filter

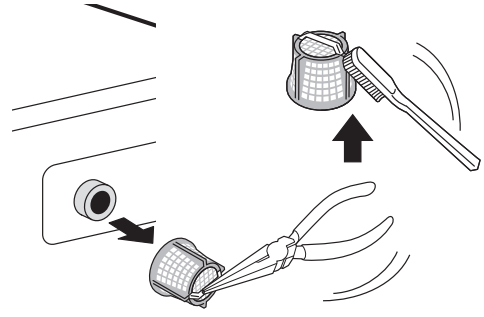
The water inlet filter collects lime or any sediment that may be in water that is supplied to the appliance. Clean the inlet filter every six months or so, or more often if the water is very hard or contains traces of limescale.

- Turn off the water supply taps to the appliance if the appliance is to be left for a certain period of time (e.g. holiday), especially if there is no floor drain (gully) in the immediate vicinity.
- IE error message will be displayed on the control panel when the water is not entering the detergent drawer.

1. Turn off the power and the water tap and then unscrew the water inlet hose.



2. Remove the water inlet filter with small pliers and then clean the filter using a medium bristle tooth brush.



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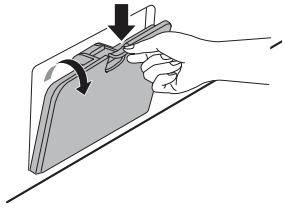
Cleaning the Drain Pump Filter and Performing an Emergency Water Evacuation

The drain filter collects threads and small objects that may have been accidentally left in the clothes. Make sure that the filter is clean every six months to ensure smooth running of your appliance.

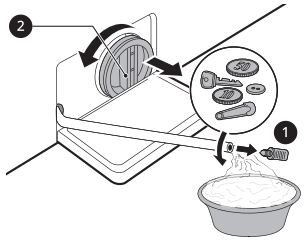
Allow the water to cool before cleaning the drain pump filter. Open the door in an emergency or perform an emergency water evacuation.

1 Unplug the appliance.

2 Open the cover cap and pull out the drain tube.



3 Remove the drain plug from the drain tube first ❶, and then drain the water. Then slowly unscrew the drain pump filter ❷ to drain the remaining water and then proceed to remove any debris or objects from the filter.



4 After cleaning the drain pump filter, carefully reinsert the filter and screw the drain cap back in clockwise carefully to avoid cross threading and leakage. Reinsert the plug back into the drain tube and place the tube into its holder.

5 Close the cover cap.

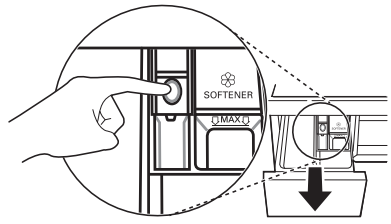
⚠ CAUTION

- Be careful when draining, as the water may be hot.
- Run the drum cleaning programme once a month (or more often, as needed) to remove excess detergent and other debris.

Cleaning the Dispenser Drawer

Detergent and fabric softener can build up in the dispenser drawer. Liquid detergents can remain under the dispenser drawer and not dispense completely. Remove the drawer and inserts and check for build-up of cleaning products **once or twice a month**.

1 Remove the detergent dispenser drawer by pulling the drawer straight out until the drawer stops.
   - Then gently pull the drawer outward while pressing hard the disengage button.



2 Remove the build-up of detergent and softener.
   - Rinse the drawer and the components of the drawer with warm water to remove the build-up from detergent and softener. Use only water to clean the dispenser drawer. Dry the drawer and the components of the drawer with a soft cloth or towel.

3 To clean the drawer opening, use a cloth or small, non-metal brush to clean the recess.
   - Remove all residue from the upper and lower parts of the recess.

4 Wipe any moisture off the recess with a soft cloth or towel.

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5 Reassemble the components of the drawer to the proper compartments and insert the drawer.

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TROUBLESHOOTING

Operation of your appliance can lead to errors and malfunctions. The following tables contain possible causes and notes for resolving an error message or malfunction. It is recommended to read the tables carefully below in order to save your time and money that may cost for calling to LG Electronics service centre.

Before Calling for Service

Your appliance is equipped with an automatic error-monitoring system to detect and diagnose problems at an early stage. If the appliance does not function properly or does not function at all, check the following tables before calling to LG Electronics service centre.

Error Messages

Symptoms	Possible Cause & Solution
IE **INLET ERROR**	**Water supply is not adequate in that location. Water does not enter appliance or it enters slowly.** • Check another tap in the house.
	Water supply tap is not completely open. Water does not enter the appliance or it enters slowly. • Open fully tap.
	Water supply hose(s) are kinked. • Straighten hose or reinstall the water inlet hose
	The filter of the supply hose(s) are clogged. • Check and clean the inlet valve filter after turning off the taps and removing the hose connections to the washing machine.
UE **UNBALANCE ERROR**	**The appliance has a system which detects and corrects the unbalance of the appliance.** • The clothes may be too wet at the end of the cycle, rearrange the load to allow proper spinning. Close the door and press **Start/Pause** button. It may take a few moments before the appliance begins to spin. The door must be locked before spin can be achieved.
	Load is too small. This system may stop spinning or even interrupt the spin cycle altogether if individual heavy articles (e.g. bath mat, bath robe, etc.) are loaded. • Add 1 or 2 similar items or smaller articles of clothes to help balance the load. Close the door and press **Start/Pause** button. It may take a few moments before the appliance begins to spin. The door must be locked before spin can be achieved.

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Symptoms	Possible Cause & Solution
OE **WATER OUTLET ERROR**	**Drain hose is kinked or clogged. Water in the appliance does not drain or drains slowly.** • Clean and straighten the drain hose.
	The drain filter is clogged. • Check and clean the drain filter.
dE dE1 dE2 dE4 **DOOR ERROR**	**Door sensor malfunctions.** • Please call LG service centre. You can find your local LG service centre phone number in the warranty card.
tE **CONTROL ERROR**	**This is a control error.** • Unplug the power plug and call for service.
LE **MOTOR LOCKED ERROR**	**Over load in motor.** • Let the appliance wait for 30 minutes until the motor is cooled down and then, restart the cycle.
FE **OVERFLOW ERROR**	**Water overfills due to a possible faulty water valve.** • Close the water tap. Unplug the power plug. Call for service.
PE **PRESSURE SENSOR ERROR**	**Water level sensor malfunctions.** • Close the water tap. Unplug the power plug. Call for service.
uS **VIBRATION SENSOR ERROR**	**Vibration sensor malfunctions.** • Call for service.
FF **FROZEN FAILURE**	**Is supply/drain hose or drain pump frozen?** • Supply warm water into the drum in order to unfreeze the drain hose and the drain pump. Cover the supply hose with wet and warm towel.
AE **WATER LEAKAGE**	**Water leaks.** • Call for service.
PF **POWER FAILURE**	**Power failure or inadequate electrical service may have occurred during operation.** • Press the **Start/Pause** button to restart the cycle.

Noises You Might Hear

Symptoms	Possible Cause & Solution
Rattling and clanking noise	**Foreign objects, such as keys, coins, or safety pins may be in the drum.** • Stop the appliance, check the drum for foreign objects. If the noise continues after the appliance is restarted, call for service.

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Symptoms	Possible Cause & Solution
Thumping sound	**Heavy clothes may produce a thumping sound. This is usually normal.** • If the sound continues, the appliance is probably out of balance. Stop and redistribute the clothes.
	The clothes may be out of balance. • Pause the programme and redistribute the clothes after the door unlocks.
Vibrating noise	**Package materials are not removed.** • Remove package materials.
	The clothes may be unevenly distributed in the drum. • Pause the programme and redistribute the clothes after the door unlocks.
	Not all levelling feet are resting firmly and evenly on the floor. • See the **Levelling the Appliance** instruction to adjust the levelling of the appliance.
	Floor not rigid enough. • Check if the floor is sold and does not flex. See the **Installation Place Requirements** to select the proper location.

Operation

Symptoms	Possible Cause & Solution
Water is leaking.	**House drain pipes are clogged.** • Unclog waste pipes. Contact plumber if necessary.
	Leakage is caused by improper installation of drain hose or clogged drain hose. • Clean and straighten the drain hose. Check and clean the drain filter regularly.
	Drain pump filter cap is not fitted correctly. • Refit the drain pump filter.

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Symptoms	Possible Cause & Solution
Appliance does not operate.	**Control panel has powered off due to inactivity.** • This is normal. Press the **Power** button to turn the appliance on.
	Appliance is unplugged. • Make sure that the cord is plugged securely into a working outlet.
	Water supply is turned off. • Turn the water supply tap completely.
	Controls are not set properly. • Make sure that the programme is correctly set. Close the door and press the **Start/Pause** button.
	Door is open. • Close the door and make sure that nothing is caught under the door preventing it from closing completely.
	Circuit breaker/fuse is tripped/blown. • Check house circuit breakers/fuses. Replace fuses or reset breaker. The appliance should be on a dedicated branch circuit. The appliance will resume the programme where it stopped once power is restored.
Appliance does not operate.	**Control needs to be reset.** • Press the **Power** button, then reselect the desired programme and press the **Start/Pause** button.
	Start/Pause was not pressed after a programme was set. • Press the **Power** button, then reselect the desired programme and press the **Start/Pause** button. The appliance is turned off if the **Start/Pause** button is not pressed within a certain time.
	Extremely low water pressure. • Check another tap in the house to make sure that household water pressure is adequate.
	Appliance is heating the water or making steam. • The drum may stop operating temporarily during certain cycles, while water is safely heated to a set temperature.
Buttons may not function properly.	**The Child Lock option is activated.** • Deactivate the **Child Lock** option if necessary.
Door does not open.	**The door cannot be opened for safety reasons once the appliance starts.** • This is normal. You can safely open the door after turns off.

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Symptoms	Possible Cause & Solution
Appliance is not filling properly.	**Inlet filter clogged.** • Make sure the inlet filters on the fill valves are not clogged.
	Inlet hoses may be kinked. • Check that inlet hoses are not kinked or clogged.
	Insufficient water supply. • Make sure that both hot and cold water taps are turned on all the way.
	Hot and cold supply hoses are reversed. • Check supply hose connections.
Appliance does not drain water.	**Kinked drain hose.** • Ensure that the drain hose is not kinked.
	Drain located higher than 1.2 m above the floor. • Make sure that the drain hose is no higher than 1.2 m above the bottom of the appliance.
Detergent is not dispensed completely or not dispensed at all.	**Too much detergent is used.** • Follow the guidelines provided by the detergent manufacturer.
	Drain Pump Filter may be blocked. • Clean the Drain filter.
Cycle time is longer than usual.	**The load is too small.** • Add more items to allow the appliance to balance the loads.
	Heavy articles are mixed with lighter items. • Always try to wash articles with similar weight in order to allow the appliance to evenly distribute the weight of the load for spinning.
	The load is out of balance. • Manually redistribute the load if articles have become tangled.
Cycle end is delayed	**Unbalance is detected or suds removing programme is on.** • This is normal. The time remaining shown on the display is only an estimated duration. Actual time may vary.

Performance

Symptoms	Possible Cause & Solution
Poor stain removal	**Previously set stains.** • Articles that have been previously washed may have stains which have been set. These stains may be difficult to remove and may require hand washing or pre-treating to aid in stain removal.

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Symptoms	Possible Cause & Solution
Staining	**Bleach or softener is dispensed too soon.** • Dispenser compartment is overfilled. It makes bleach or softer dispensed rapidly. Always measure bleach or softener to prevent overfilling. • Close the detergent dispenser slowly.
	Bleach or softener was added directly to the clothes in the drum. • Always use the detergent dispenser to ensure that bleach or softener is properly dispensed at the right time in the programme.
	Clothes were not properly sorted. • Always wash dark colours separately from light colours and whites to prevent discoloration. • Never wash heavily soiled items with lightly soiled items.
Wrinkling	**Appliance is not unloaded promptly.** • Always remove items from the appliance as soon as the programme is complete.
	Appliance is overloaded. • The appliance can be fully loaded, but the drum should not be tightly packed with items. The door of the appliance should be closed easily.
	Hot and cold water supply hoses are reversed. • Hot water rinse can set wrinkles in garments. Check the supply hose connections.
	Spin speed may be too high. • Set the spin speed to suit the garment type.

Odour

Symptoms	Possible Cause & Solution
Musty or mildewy odour in appliance	**Inside of drum is not cleaned properly.** • Run the **Tub Clean** function regularly.
	Odours can occur if the drain hose is not properly installed, causing siphoning (water flowing back inside of the appliance). • When installing the drain hose, make sure that it does not get kinked or blocked.
	If the detergent dispenser is not cleaned regularly, odours can occur from mold or foreign substances. • Remove and clean the detergent dispenser, especially the top and bottom of the dispenser's opening.

Memo

Memo

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