

OWNER'S MANUAL WASHING MACHINE

Please read this owner's manual thoroughly before operating and keep it handy for reference at all times.

WM9000H*A



MFL67737697

www.lg.com

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IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USE

⚠ WARNING

For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, or to prevent property damage, injury to persons, or death.

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.

⚠ This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word DANGER, WARNING or CAUTION. These words mean:

⚠ DANGER

You will be killed or seriously injured if you don't immediately follow instructions.

⚠ WARNING

You can be killed or seriously injured if you don't follow instructions.

⚠ CAUTION

You may be slightly injured or cause damage to the product if you do not follow instructions.

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

BASIC SAFETY PRECAUTIONS

⚠ WARNING

To reduce the risk of fire, electric shock, or injury to persons when using this appliance, follow basic precautions, including the following.

- Use this appliance only for its intended purpose as described in this owner's Manual.
- Before use, the washer must be properly installed as described in this manual.
- Do not wash articles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, dry cleaning solvents, or other flammable or explosive substances, as they give off vapors that could ignite or explode.
- Do not add gasoline, dry cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
- Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for 2 weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using the washer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. As the gas is flammable, do not smoke or use an open flame during this time.
- Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children.
- Before the washer is removed from service or discarded, remove the lid to prevent children from climbing inside.
- Do not install or store the washer where it will be exposed to the weather or freezing temperatures.
- Do not tamper with controls.
- Keep the area underneath and around your appliances free of combustible materials (lint, paper, rags, etc.), gasoline, chemicals and other flammable vapors and liquids.
- Do not repair or replace any part of the washer or attempt any servicing other than as described in this manual. We strongly recommend that any service be performed by a qualified technician.
- See Installation Instructions for grounding requirements.
- ALWAYS follow the fabric care instructions supplied by the garment manufacturer.
- Do not place items exposed to cooking oil in your washer. Items contaminated with cooking oils may contribute to a chemical reaction that could cause a load to catch fire.
- Use fabric softeners or products to eliminate static only as recommended by the manufacturer.
- This washer is not designed for maritime use or for mobile installations such as in RVs, aircraft, etc.
- Turn off the water faucets and unplug the washer if the machine is to be left for an extended period of time, such as during vacations.
- Do not use to dry articles containing foam rubber or similarly textured rubber-like materials.
- Packaging material can be dangerous for children. There is a risk of suffocation! Keep all packaging from children.
- Always check the inside of the washer for foreign objects before loading laundry. Keep the lid closed when not in use.
- Do not reach into the appliance if the tub or agitator is moving.
- **WARNING :** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. *Wash hands after handling.*

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USE

⚠ WARNING

For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, or to prevent property damage, injury to persons, or death.

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 ordinances.

⚠ WARNING

Improper connection of the equipment-grounding conductor can result in risk of electric shock. Check with a qualified electrician or servicer 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. Failure to follow these warnings can cause serious injury, fire, electric shock, or death.

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USE

⚠ WARNING

For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, or to prevent property damage, injury to persons, or death.

SAFETY INSTRUCTIONS FOR INSTALLATION

⚠ WARNING

To reduce the risk of fire, electric shock, or injury to persons when using this appliance, follow basic precautions, including the following.

- Refer to **INSTALLATION INSTRUCTIONS** for detailed grounding procedures. Installation instructions are packed with the washer for installer's reference. If the washer is moved to a new location, have it checked and reinstalled by a qualified service technician. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- Do not, under any circumstances, cut or remove the third (ground) prong from the power cord. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- For personal safety, this appliance must be properly grounded. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- The power cord of this appliance is equipped with a 3-prong (grounding) plug which mates with a standard 3-prong (grounding) wall outlet to minimize the possibility of electric shock from this appliance.
- This washer must be plugged into a 120 VAC, 60 Hz grounded outlet. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- Have the wall outlet and circuit checked by a qualified electrician to make sure the outlet is properly grounded. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- Where a standard 2-prong wall outlet is encountered, it is your personal responsibility and obligation to have it replaced with a properly grounded 3-prong wall outlet. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- Do not install on carpet. Install washer on a solid floor. Failure to follow this warning can cause serious leak damage.
- Do not remove ground prong. Do not use an adapter or extension cord. Plug into a grounded 3-prong outlet. Failure to follow these warnings can cause serious injury, fire, electric shock, or death.
- The washer should always be plugged into its own individual electrical outlet which has a voltage rating that matches the rating plate. This provides the best performance and also prevents overloading house wiring circuits which could cause a fire hazard from overheated wires.
- Never unplug your washer by pulling on the power cord. Always grip plug firmly and pull straight out from the outlet. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- Repair or immediately replace all power cords that have become frayed or otherwise damaged. Do not use a cord that shows cracks or abrasion damage along its length or at either end. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- When installing or moving the washer, be careful not to pinch, crush, or damage the power cord. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- The washer must be installed and electrically grounded by a qualified service person in accordance with local codes to prevent shock hazard and assure stability during operation.
- The washer is heavy. Two or more people may be needed to install and move the appliance. Failure to do so can result in back or other injury.
- Store and install the washer where it will not be exposed to temperatures below freezing or exposed to outdoor weather conditions. Failure to follow this warning can cause serious leak damage.
- Do not install the washer in humid spaces to reduce the risk of electric shock. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- To reduce the risk of injury to persons, adhere to all industry recommended safety procedures including the use of long sleeved gloves and safety glasses. Failure to follow all of the safety warnings in this manual could result in property damage, injury to persons or death.

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USE

⚠ WARNING

For your safety, the information in this manual must be followed to minimize the risk of fire or explosion, electric shock, or to prevent property damage, injury to persons, or death.

SAFETY INSTRUCTIONS FOR USE, CARE, CLEANING, AND DISPOSAL

⚠ WARNING

To reduce the risk of fire, electric shock, or injury to persons when using this appliance, follow basic precautions, including the following.

- Unplug the washer before cleaning to avoid the risk of electric shock.
- Never use harsh chemicals, abrasive cleaners, or solvents to clean the washer. They will damage the finish.
- Do not put oily or greasy rags or clothing on top of the washer. These substances give off vapors that could ignite the materials.
- Do not wash items that are soiled with vegetable or cooking oil. These items may contain some oil after laundering. Due to the remaining oil, the fabric may smoke or catch fire by itself.
- Disconnect this appliance from the power supply before attempting any user maintenance. Turning the controls to the OFF position does not disconnect this appliance from the power supply. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- Do not combine laundry products for use in one load unless specified on the label.
- Do not mix chlorine bleach with ammonia or acids such as vinegar. Follow package directions when using laundry products. Incorrect usage can produce poisonous gas, resulting in serious injury or death.
- Do not reach into the washer while parts are moving. Before loading, unloading, or adding items, press the START/PAUSE button and allow the drum to coast to a complete stop before reaching inside. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. As children grow, teach them the proper, safe use of all appliances. Failure to comply with these warnings could result in serious injury to persons or death.
- Destroy the carton, plastic bag, and other packing materials after the washer is unpacked. Children might use them for play. Cartons covered with rugs, bedspreads, or plastic sheets can become airtight chambers. Failure to comply with these warnings could result in serious injury to persons or death.
- Keep laundry products out of children's reach. To prevent injury to persons, observe all warnings on product labels. Failure to comply with these warnings could result in serious injury to persons or death..
- Remove the door to the washing compartment to avoid the danger of children or small animals getting trapped inside before your washer is removed from service or discarded. Failure to do so can result in serious injury to persons or death.
- Make sure the dispenser lid is closed at all times when not being filled with laundry products. Failure to keep the lid closed can result in personal injury or flooding.

SAVE THESE INSTRUCTIONS

REGULATION NOTICE FOR TRANSMITTER MODULE CONTAINED IN WASHING MACHINE

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Reorient or relocate the receiving antenna

FCC RF Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Responsible Party:

LG Electronic USA, Inc.
1000 Sylvan Avenue Englewood Cliffs, NJ 07632
TEL. : +1-800-243-0000

Industry Canada Statement:

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

PRODUCT SPECIFICATIONS

Standard	IEEE 802.11 b/g/n
Host Interface	UART
Operating Frequency	2.412–2.462 GHz
Security	64/128 bit WEP, WPA, WPA2, AES
Maximum Output Power	802.11b: 133.660 mW 802.11g: 319.890 mW 802.11n (HT20): 298.538 mW 802.11b (HT40): 204.174 mW
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64 QAM, 16 QAM, QPSK, BPSK for OFDM
Data Rate	802.11b: up to 11 Mbps 802.11g: up to 54 Mbps 802.11n: up to 150 Mbps
Number of Channels	11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40)

Open Source Software Notice Information

To obtain the source code under GPL, LGPL, MPL, and other open source licenses, that is contained in this product, please visit <http://opensource.lge.com>.

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices are available for download.

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping, and handling) upon email request to opensource@lge.com. This offer is valid for three (3) years from the date on which you purchased the product.

PRODUCT FEATURES

INVERTER DIRECT DRIVE MOTOR

The inverter motor, which is directly connected to the tub, produces little noise and vibration and offers great durability and a long lifespan.

SMART THING

Remote Start - Use a smart phone to control your appliance remotely. Also, it is possible to monitor your cycle operation so you know how much time is left in the cycle.

Smart Message - When the cycle is complete or the appliance has problems, you have the option of receiving push notifications on your smart phone.

Smart Grid - Smart appliances can communicate with local utility companies that are equipped with Smart Grid equipment. (Refer to page 32).

Download Cycle - Download new and special cycles that are not included with the machine.

Smart Diagnosis™ - Should you experience technical difficulty, your appliance has the capability of transmitting data by phone to the Customer Information Center to diagnosis the problem.

Cycle Set - This feature automatically sets cycle settings based on your laundry needs.

Laundry Stats - This feature provides the Tub Clean timing and cycle use history for the machine.

Energy Monitoring - Your washer energy usage is affected by the cycle and settings so you may see some changes in energy usage from one cycle to another.

TUB CLEAN

Regular cleaning of the tub on a monthly basis using Tub Clean can help keep the tub clean and fresh.

LARGE CAPACITY STAINLESS STEEL DRUM

The large capacity stainless steel drum offers extreme durability and is tilted to improve efficiency and allow easier access for large items.

CHILD LOCK

Use this option to disable the controls during a wash cycle. This option can prevent children from changing cycles or operating the machine.

DETERGENT DISPENSER

The four-compartment dispenser makes it easy to separate the pre-wash detergent, the main laundry detergent, liquid bleach, and fabric softener into different compartments.

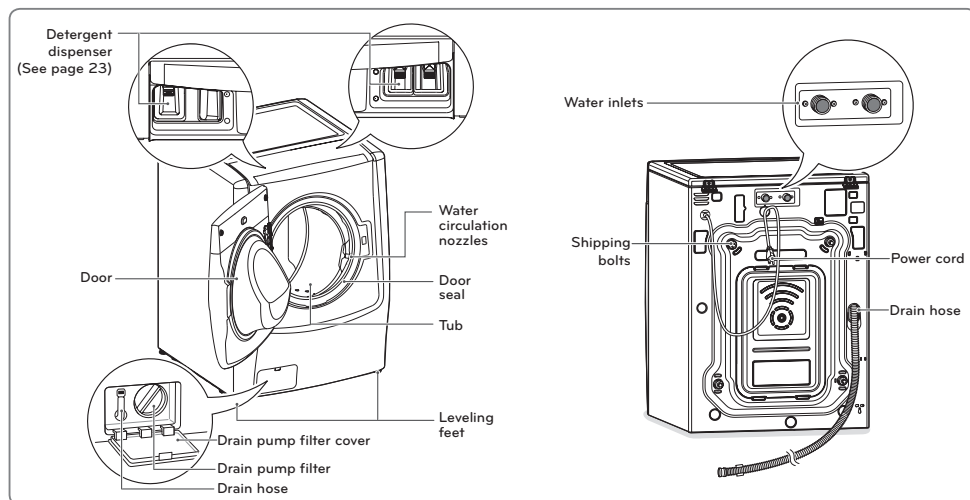
HIGH TEMPERATURE STEAM CYCLES

During LG's unique high-temperature steam cycles, the hot steam helps to remove tough stains.

INTRODUCING YOUR WASHING MACHINE

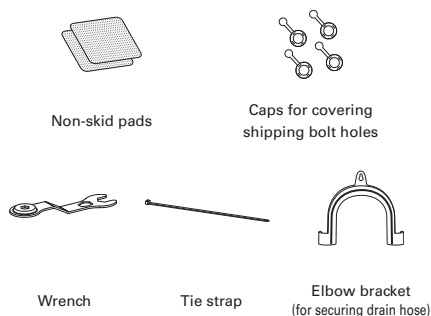
Parts and Accessories

Parts

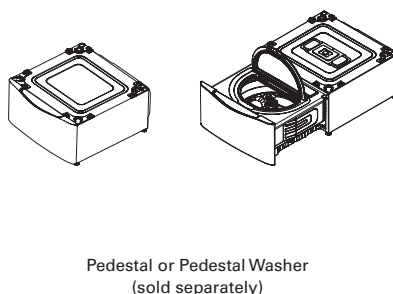


Accessories

Included Accessories



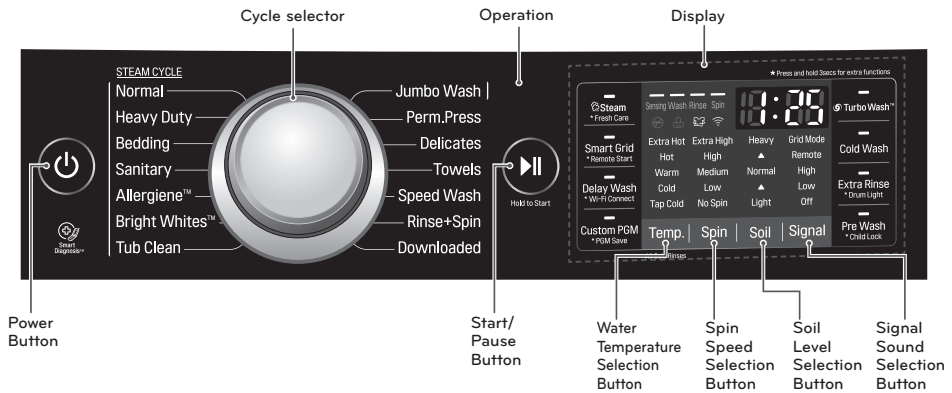
Optional Accessories



NOTE









- Contact LG Customer Service at 1-800-243-0000 (1-888-542-2623 in Canada) if any accessories are missing.
- For your safety and for extended product life, use only authorized components. The manufacturer is not responsible for product malfunction or accidents caused by the use of separately purchased unauthorized components or parts.
- The images in this guide may be different from the actual components and accessories, and are subject to change by the manufacturer without prior notice for product improvement purposes.

Control Panel Features

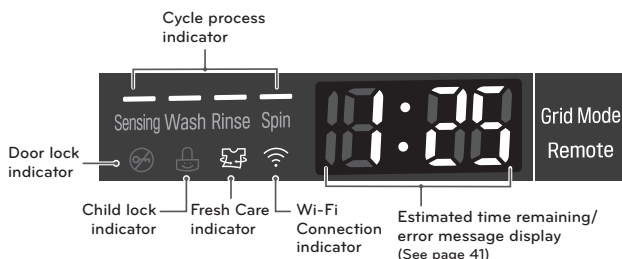










Button	Description
	<ul style="list-style-type: none"> Turns the washing machine on and off. (During the wash cycle) stops operation, and cancels the settings.
	<ul style="list-style-type: none"> Bright Whites™ <ul style="list-style-type: none"> For white fabrics (see page 26) Allergiene™ <ul style="list-style-type: none"> For cotton, underwear (see page 26) Sanitary <ul style="list-style-type: none"> For underwear, diapers, etc. (see page 26) Bedding <ul style="list-style-type: none"> For blankets or large bulky items (see page 26) Heavy Duty <ul style="list-style-type: none"> For heavily soiled cotton fabric (see page 26) Normal <ul style="list-style-type: none"> For general laundry, such as cotton T-shirts or towels (see page 26) Jumbo Wash <ul style="list-style-type: none"> For blankets or king size items (see page 26) Perm.Press <ul style="list-style-type: none"> For wrinkle-free fabrics (see page 26) Delicates <ul style="list-style-type: none"> For sheer and delicate fabrics (see page 26) Towels <ul style="list-style-type: none"> For towels (see page 26) Speed Wash <ul style="list-style-type: none"> For small quantities of lightly soiled items (see page 26) Rinse + Spin <ul style="list-style-type: none"> For Rinse, drain and Spin only (see page 26) Downloaded <ul style="list-style-type: none"> For downloadable cycles. The default cycle is Small Load. (see page 27). Tub Clean <ul style="list-style-type: none"> For tub clean (see page 36)
	<ul style="list-style-type: none"> Starts or pauses the washing machine cycle. Hold a second to Start If you do not press the button within 1 hour of selecting a cycle, the washing machine will turn off automatically.
Temp.	<ul style="list-style-type: none"> (Press repeatedly) Selects the water temperature for the wash cycle (see page 27). Select water temperature from 5 settings.
Spin	<ul style="list-style-type: none"> (Press repeatedly) Selects the spin speed in the desired level (see page 27). Selects spin speed from 5 settings.
Soil	<ul style="list-style-type: none"> (Press repeatedly) Selects a wash cycle by soil level (see page 27). Selects soil level from 5 settings.
Signal	<ul style="list-style-type: none"> (Press repeatedly) Selects a Melody or Button sound by signal(see page 28).

Operation (continued)

Button	Description
	<ul style="list-style-type: none"> (Press before starting wash cycle) Use Steam option for extra cleaning power (See page 28). (Press and hold 3 seconds) Fresh Care tumbles clothes to prevent wrinkles (See page 30).
	<ul style="list-style-type: none"> Use Smart Grid to lower your energy costs by avoiding peak usage times (See page 28). (Press and hold 3 seconds before starting wash cycle) Use Remote Start to control your washer remotely (See page 28).
	<ul style="list-style-type: none"> (Press before starting wash cycle) Set delay time of starting cycle (See page 29). (Press and hold 3 seconds after turning on the machine) Use Wi-Fi Connect for connecting to the internet through your home Wi-Fi network (See page 31).
	<ul style="list-style-type: none"> Use Custom PGM to recall the customized wash cycle you had previously saved (See page 29). (Press and hold 3 seconds after setting the desired option) Use PGM Save to save special combination of setting that you use frequently (See page 30).
	<ul style="list-style-type: none"> Use Turbo Wash™ to save time (See page 29).
	<ul style="list-style-type: none"> Use Cold Wash to save on energy consumption (See page 29).
	<ul style="list-style-type: none"> (Press before wash cycle) Add an extra rinse to the selected cycle (See page 29). (Press and hold during wash cycle) The drum is equipped with a white LED light that illuminates when the washer is turned on (See page 30).
	<ul style="list-style-type: none"> Pre-wash heavily soiled laundry (See page 29). (Press and hold 3 seconds during wash cycle) Use the Child Lock option to Lock/Unlock the controls (See page 30).

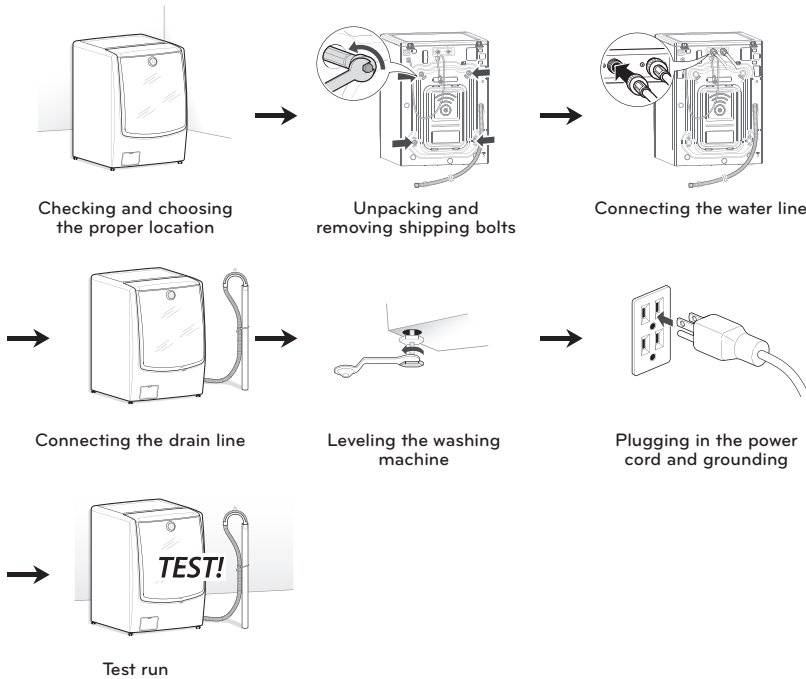
Display



Display Icon	Description
	<ul style="list-style-type: none"> This portion of the display shows which stage of the wash cycle is currently underway (Sensing, Wash, Rinse and Spin).
	<ul style="list-style-type: none"> Indicates that the door is locked. The washer door will lock while the washer is operating. The door can be unlocked by pressing the Start/Pause button to stop the washer.
	<ul style="list-style-type: none"> When Child Lock is set, the Child Lock indicator appears and all buttons are disabled except the Pre Wash button. This prevents children from changing settings while the washer is operating.
	<ul style="list-style-type: none"> This indicator shows that the washer has been set for Fresh Care. This function provides periodic tumbling for up to about 19 hours to prevent wrinkles.
	<ul style="list-style-type: none"> When the appliance is connected to the internet through a home Wi-Fi network, this indicator appears.
	<ul style="list-style-type: none"> When the Start/Pause button is pressed, the washer automatically detects the wash load (weight) and optimizes the washing time, based on the selected cycle and options. The display will then indicate the estimated time remaining for the selected wash cycle.
	<ul style="list-style-type: none"> When the Smart Grid signal is detected, this indicator appears.
	<ul style="list-style-type: none"> When the Remote Start mode is activated, this indicator appears.

INSTALLATION INSTRUCTIONS

Preview installation order



⚠ WARNING

- Washer is heavy! Two or more people are required when moving and unpacking the washer. Failure to do so can result in back or other injury.
- Store and install the washer where it will not be exposed to temperatures below freezing or exposed to outdoor weather conditions. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- Properly ground washer to conform with all governing codes and ordinances. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- To reduce the risk of electric shock, do not install the washer in humid spaces. Failure to follow this warning can cause serious injury, fire, electric shock, or death.
- The base opening must not be obstructed by carpeting when the washer is installed on a carpeted floor.
- Do not remove ground prong. Do not use an adapter or extension cord. Plug into a grounded 3-prong outlet. Failure to follow this warning can cause serious injury, fire, electric shock, or death.

Checking and choosing the proper location

Install the washing machine on a solid floor that is strong and rigid enough to support the weight of the washing machine, even when fully loaded, without flexing or bouncing. If the floor has too much flex, you may need to reinforce it to make it more rigid. If the floor is not solid, it may cause severe vibration and noise.

- 1 Clean the floor before installation.
 - Make sure to select solid and smooth ground.
- 2 Two or more people are needed for moving and unpacking the washing machine.
- 3 Allow for sufficient space between the walls and the washing machine for installation.

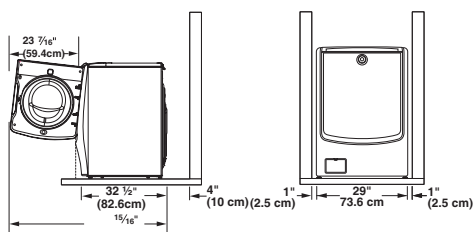
Space requirements

You must allow sufficient space for water lines, the drain line, and airflow.

! NOTE

- Be sure to allow for wall, door, or floor moldings that may increase the required clearances.

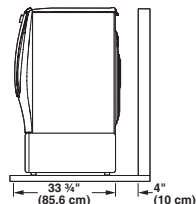
Clearances



! NOTE

- The floor must be strong and rigid enough to support the weight of the washer, when fully loaded, without flexing or bouncing. If your floor has too much flex, you may need to reinforce it to make it more rigid. A floor that is adequate for a top-loading washer may not be rigid enough for a front loading washer, due to the difference in the spin speed and direction. If the floor is not solid, your washer may vibrate and you may hear and feel the vibration throughout your house.
- Before installing the washer, make sure the floor is clean, dry and free of dust, dirt, water and oils so the washer feet can not slide easily. Leveling feet that can move or slide on the floor can contribute to excess vibration and noise due to poor contact with the floor.
- If a drip pan must be used, take extra care to follow the instructions provided with the drip pan and make sure the leveling feet are adjusted for firm and even contact with the pan. Use of drip pans and failure to properly level the machine may result in increased vibration and noise during operation.

Installing on a pedestal



! NOTE

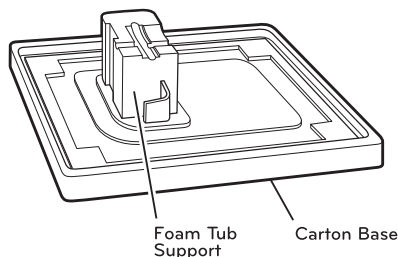
- Refer to the instructions packaged with the optional PEDESTAL before installing with a PEDESTAL.

Unpacking and removing shipping bolts

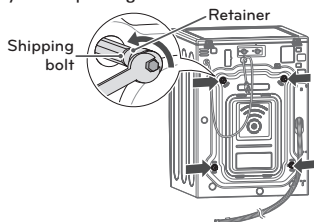
When removing the washer from the carton base, be sure to remove the foam drum support in the middle of the carton base.

If you must lay the washer down to remove the base packaging materials, always lay it carefully on its side.

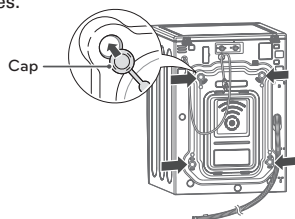
Do NOT lay the washer on its front or back.



- 1 Starting with the bottom two shipping bolts, use the wrench (included) to fully loosen all four shipping bolts by turning them counterclockwise. Remove the bolt assemblies by wiggling them slightly while pulling them out.



- 2 Locate the four hole caps included in the accessory pack and install them in the shipping bolt holes.

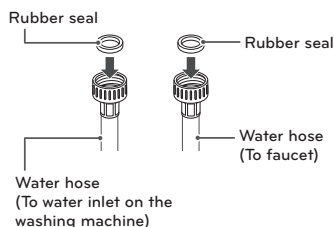


! NOTE

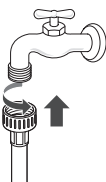
- Save the bolt assemblies for future use. To prevent damage to internal components, DO NOT transport the washer without reinstalling the shipping bolts.
- Failure to remove shipping bolts and retainers may cause severe vibration and noise, which can lead to permanent damage to the washer. The cord is secured to the back of the washer with a shipping bolt to help prevent operation with shipping bolts in place.

Connecting the water lines

- 1 Check the rubber seals on both sides of the hose.
 - Insert a rubber seal into the threaded fittings on each hose to prevent leaking.



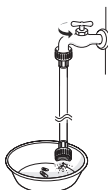
- 2 Connect the water supply hoses to the HOT and COLD water faucets tightly by hand and then tighten another 2/3 turn with pliers.
 - Connect the blue hose to a cold water faucet and the red hose to a hot water faucet.



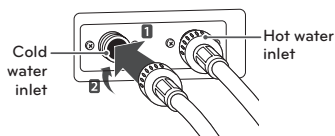
⚠ WARNING

- Do not overtighten. Damage to the coupling can result.

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



- 4 Connect the hoses to the water inlets tightly by hand and then tighten another 2/3 turn with pliers.
 - Connect the blue hose to the cold water inlet and the red hose to the hot water inlet.



⚠ WARNING

- Do not overtighten the hoses. Overtightening can damage the valves resulting in leaking and property damage.

- 5 Check for leaks by turning on the faucets.
 - If water leaks, check steps 1 to 4 again.

ⓘ NOTE

- For your safety, and for extended product life, use only authorized components. The manufacturer is not responsible for product malfunction or accidents caused by the use of separately purchased, unauthorized parts.
- Use new hoses when you install the washing machine. Do not reuse old hoses. Use only the inlet hoses provided with the washer. LG does not recommend the use of aftermarket hoses.
- Periodically check the hoses for cracks, leaks and wear, and replace the hoses every five years.
- Do not stretch the water hoses intentionally, and make sure that they are not crushed by other objects.
- Water supply pressure must be between 20 psi and 120 psi (138–827 kPa). If the water supply pressure is more than 120 psi, a pressure reducing valve must be installed.
- To provide optimum washing performance the hot water temperature should be set at 120-135°F (48-57°C) and the cold at 60°F (15°C).

Connecting the drain line

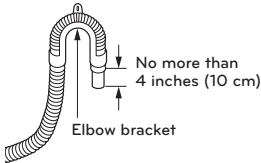
Secure the drain hose in place to prevent moving and leaking.

! NOTE

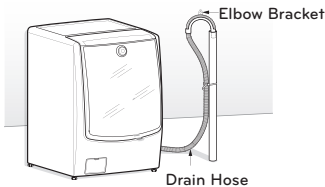
- The drain hose should be properly secured. Failure to properly secure the drain hose can result in flooding and malfunction.
- Total height of the house end should not exceed 96 inches (244.8 cm) from the bottom of the washer.
- The drain must be installed in accordance with any applicable local codes and regulations.
- Make sure that the water lines are not stretched, pinched, crushed, or kinked.

Using a standpipe

- 1 Clip the end of the hose into the elbow bracket.
 - Connect the elbow bracket within 4 inches (10 cm) from the end of the drain hose. If the drain hose is extended more than 4 inches (10 cm) beyond the end of the elbow bracket, mold or microorganisms could spread to the inside of the washer.



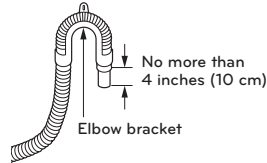
- 2 Insert the end of the drain hose into the standpipe.



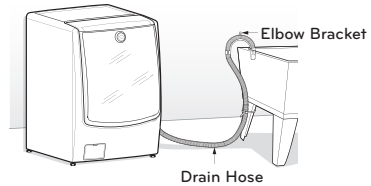
- 3 Use a tie strap to secure the drain hose in place.

Using a laundry tub

- 1 Clip the end of the hose into the elbow bracket.
 - Connect the elbow bracket within 4 inches (10 cm) from the end of the drain hose. If the drain hose is extended more than 4 inches (10 cm) beyond the end of the elbow bracket, mold or microorganisms could spread to the inside of the washer.



- 2 Hang the end of the drain hose over the side of the laundry tub.



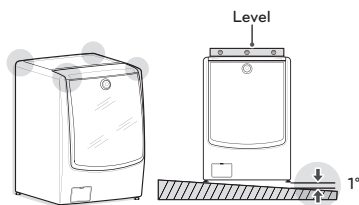
- 3 Use a tie strap to secure the drain hose in place.

Leveling the washing machine

The washer tub of your new washing machine spins at very high speeds. To minimize vibration, noise, and unwanted movement, the floor must be perfectly level and solid.

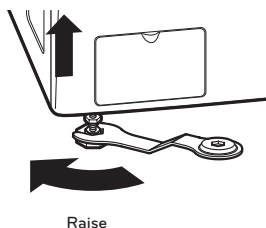
1 Check the washing machine's level.

- Check the precise level by rocking the top edges of the washing machine or placing a level on the washing machine. The slope beneath the washing machine must not exceed 1°, and all four leveling feet must rest firmly on the floor.

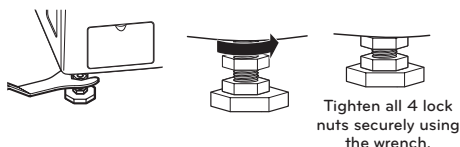


2 Turn the lower leveling feet clockwise to level the washing machine.

- Turning the lower leveling feet clockwise raises the washing machine.



3 Turn the locknuts counterclockwise and tighten them when the washing machine is level.



4 Check the washing machine's level again.

- Push or rock the top edges of the washing machine gently to make sure that the washing machine does not rock.
- If the washing machine rocks, repeat steps 1 to 3.

⚠ WARNING

- Using the washing machine without leveling, it may result in malfunction caused by the production of excess vibration and noise.
- If you are installing the washing machine on the optional pedestal, you must adjust the leveling feet on the pedestal to level the washing machine. The washing machine's leveling feet should be minimized and turn the locknuts counterclockwise to secure.
- Use the leveling feet only when you level the washing machine. If you raise the leveling feet unnecessarily, it may cause abnormal vibration of the washing machine.

Using non-skid pads (optional)

If you install the washing machine on a slippery surface, it may move because of excessive vibration. Incorrect leveling may cause malfunction through noise and vibration. In the event of this, lay the non-skid pads under the leveling feet and adjust the level.

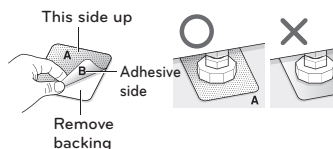
1 Clean the floor to attach the non-skid pads.

- Use a dry rag to remove and clean foreign objects or moisture. If moisture remains, the non-skid pads may slip.

2 Adjust the level after placing the washing machine in the installation area.

3 Place the adhesive side of the non-skid pad on the floor.

- It is most effective to install the non-skid pads under the front legs. If it is hard to place the pads under the front legs, place them under the back legs.



4 Check the washing machine's level again.

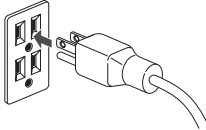
- Push or rock the top edges of the washing machine gently to make sure that the washing machine does not rock. If the washing machine rocks, level the washing machine again.

Plugging in the power cord and grounding

Make sure to ground the washing machine to prevent a short circuit or an electric shock when plugging in.

Using a 3-prong outlet

Plug in the electrical outlet without additional grounding.






⚠ WARNING

- The power outlet must be within 60 inches (1.5 m) of either side of the washer.
- The appliance and outlet must be positioned so that the plug is easily accessible.
- Do not overload the outlet with more than one appliance.
- The outlet must be grounded in accordance with current wiring codes and regulations.
- Time-delay fuse or circuit breaker is recommended.
- It is the personal responsibility and obligation of the product owner to have a proper outlet installed by a qualified electrician.
- Do not use a worn or damaged power cord or power plug. Replace or repair it immediately. Failure to do so may result in death, fire, electric shock, or malfunction.
- Do not modify the power cord and take care not to damage it when installing or moving the washing machine. Failure to do so may result in death, fire, electric shock, or malfunction.
- Make sure that the washing machine is grounded.
- Connect this washing machine to a grounded outlet conforming to the rating prior to use. Failure to do so may result in fire, electric shock, or malfunction.
- Do not use adaptors or extension cords. The washing machine should always be plugged into its own individual electrical outlet which has a voltage rating that matches the rating plate. Failure to do so may result in fire, electric shock or disorder.
- Do not damage or cut off the ground prong of the power cord. Doing so may cause death, fire, electric shock, or product malfunction.

Test run

Check if the washing machine is properly installed and run a test cycle.

- 1 Load the washing machine with 6 pounds of laundry.
- 2 Press .
- 3 Turn  to RINSE + SPIN.
- 4 Press .
 - The wash cycle starts.
- 5 Check if water is supplied, that the washing machine does not rock or vibrates excessively, and that it drains well during the spin cycle.
 - If water leaks during water supply, see page 16, **Connecting the water lines** to connect them properly.
 - If the washing machine rocks and vibrates excessively, see page 18, **Leveling the washing machine** to level it again.
 - If the drain does not work, see page 17, **Connecting the drain line** to install it properly.

PREPARATION

Sorting wash loads












Precautions for fabric care before wash cycle

Read and observe the following to prevent shrinkage or damage to clothes.

- ◆ Check all pockets to make sure that they are empty.
 - Items such as clips, matches, pens, coins, and keys can damage both your washer and your clothes.
- ◆ Close zippers, hooks, and drawstrings to prevent these items from snagging or tangling on other clothes.
- ◆ Pretreat heavily stained areas before washing.
 - Doing so will produce clean, stain-free results.
- ◆ Combine large and small items in a load. Load large items first.
- ◆ Large items should not be more than half of the total washload.
- ◆ The washer can be fully loaded, but the drum should not be tightly packed with items.
 - The door of the washer should close easily.
- ◆ Do not wash single items, except for bulky items such as blankets. Make sure to wash laundry in similar types of loads.
 - Washing a single small item may result in the tub becoming unbalanced, vibrating and making a noise.
- ◆ Do not wash waterproof clothes.
 - This may cause abnormal vibration, or may cause the load to bounce, which could damage the tub.
- ◆ Check if there are any other foreign objects in the door seal and take extra care that clothes do not get caught there.
 - Foreign objects in the door seal may stain clothes, and water may leak if clothes get caught in the door seal.
- ◆ Wash underwear or small, light items in a laundry net.
 - Small, light items may get caught in the door seal, and a brassiere hook may damage other items or the tub.
- ◆ Brush heavy soil, dust, or hair off fabrics before washing.
 - Laundry may not wash clean if there is dirt or sand on the fabrics, or they may damage due to particles rubbing against sheer fabrics.
- ◆ Wash blankets individually.
 - Washing more than one blanket together may result in poor cleaning performance due to tangling or an unbalanced load.
- ◆ Always separate fabrics according to their colors and wash them separately to prevent colors from running.
 - Fabrics may damage or become stained due to fabric dyes running, or due to foreign objects transferring from one fabric to another.

Fabric care labels

Most articles of clothing feature fabric care labels that include instructions for proper care.

Category	Label	Directions
 Washing		Hand Wash
		Machine Wash, Normal Cycle
		Use Permanent Press/Wrinkle Resistant washing machine setting (which has a cool down or cold spray before the reduced spin)
		Use Gentle/Delicate washing machine setting (slow agitation and/ or reduced wash time).
		Do Not Wash
Water Temperature		Do Not Wring
	...	Hot
	..	Warm
 Bleach symbols	.	Cold/Cool
		Any Bleach (When Needed)
		Only Non-Chlorine Bleach (When Needed)
		Do Not Bleach

Sorting laundry

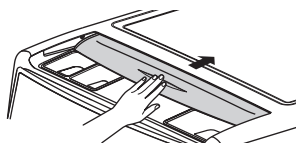
It is recommended that you sort laundry into similar loads that are washable in the same cycle. Refer to the following chart for sorting clothes.

Colors	Whites / Lights / Darks
Soil	Heavy / Normal / Light
Fabric	Delicates / Easy Care / Sturdy Cottons
Lint	Lint Producers / Lint Collectors

Using the detergent dispenser lid

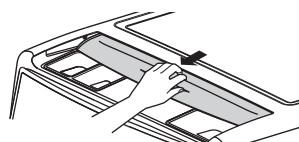
Opening the lid

- Push the front handle to slide the lid open.



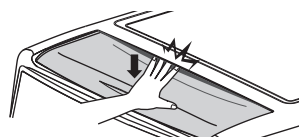
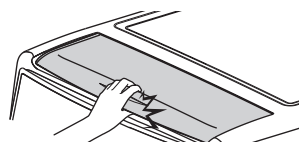
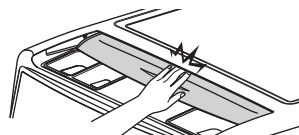
Closing the lid

- Pull the top of the handle to slide the lid closed.



CAUTION

- To avoid injury, do not place fingers under the lid or between the lid and the top plate when pressing or sliding the detergent dispenser lid open or closed.



Using detergent/fabric softener

Recommended detergent

Make sure to use HE (High-Efficiency) detergent for front-loading washing machines. HE detergents dissolve more efficiently and produce fewer suds to ensure efficient washing and rinsing. Use the correct amount of detergent as indicated on the label of the detergent packaging.



**Designed specially to use only
HE (High-Efficiency) detergent**

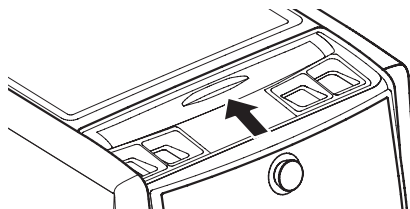
NOTE

- Only use HE detergents, because using a regular detergent may produce excessive suds.
- HE detergents produce fewer suds, dissolve more efficiently to improve washing and rinsing performance, and help to keep the interior of your washer clean.
- Use less detergent for soft water.
- Wipe up any spills immediately, as liquids could damage the finish and the control panel of the washing machine. If you do not wipe up any spills with a soft cloth, the cycle and option selections of the control panel may not operate.
- Using too much detergent can cause a build-up in the tub resulting in unsatisfactory performance and machine malfunction.
- If you use a detergent that does not dissolve easily or a detergent with high viscosity, it will leave a residue and clog on the dispenser.
- Dilute concentrated detergents with water; it will leave a residue on the tub and may not rinse properly.

Loading the dispenser

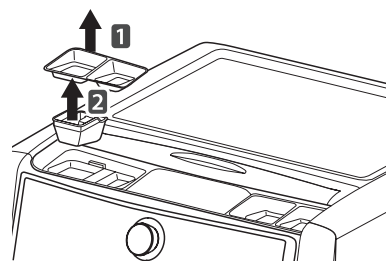
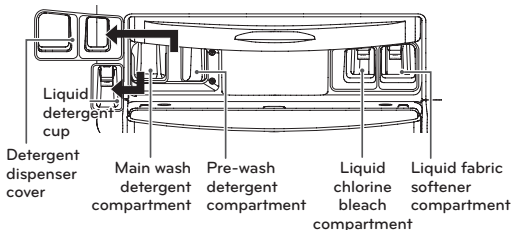
The detergent dispenser of the washing machine has a dispenser compartment for each detergent type. Add each detergent to its appropriate compartment.

- 1 Slide the detergent dispenser lid open.



- 2 Add each detergent to its appropriate compartment.

- If you use a liquid detergent, make sure the liquid detergent cup is in place.
- If you use a powdered detergent, remove the liquid detergent cup and put the powder in the main wash detergent compartment.



NOTE

- Slide the detergent dispenser lid completely closed before starting the cycle.
- Be careful not to catch your hand when opening and closing the lid.
- It is normal for a small amount of water to remain in the dispenser compartments at the end of the cycle.

Pre-Wash Detergent Compartment

Add liquid or powdered detergent to this compartment when using the pre-wash option. Always use HE (High-Efficiency) detergent with your washing machine.

! NOTE

- If liquid detergent is to be used for the main wash when using the pre-wash option, the liquid detergent cup accessory must be used in main wash dispenser to prevent the main wash liquid detergent from being dispensed immediately.
- The amount of detergent added for the pre-wash option is 1/2 the amount recommended for the main wash cycle. For example, if the main wash cycle requires one measure of detergent, add 1/2 measure for the pre-wash option.

Main Wash Detergent Compartment

This compartment holds laundry detergent for the main wash cycle, which is added to the load at the beginning of the cycle. Always use HE (High-Efficiency) detergent with your washing machine. Never exceed the manufacturer's recommendations when adding detergent. Using too much detergent can result in detergent buildup in clothing and the washer. Either powdered or liquid detergent may be used.

! NOTE

- Liquid or powdered color-safe bleach may be added to the main wash compartment with detergent of the same type.
- When using liquid detergent, make sure the liquid detergent cup and insert are in place. Do not exceed the maximum fill line.
- When using powdered detergent, remove the insert and liquid detergent cup from the compartment. Powdered detergent will not dispense with the liquid detergent cup and insert in place.

Liquid Bleach Compartment

This compartment holds liquid chlorine bleach, which will be dispensed automatically at the proper time during the wash cycle.

! NOTE

- Do not add powdered or liquid color-safe bleach to this compartment.
- Always follow the manufacturer's recommendations when adding bleach. Do not exceed the maximum fill line. Using too much bleach can damage fabrics.
- Never pour undiluted liquid chlorine bleach directly onto the load or into the drum. Fabric damage can occur.

Fabric Softener Compartment

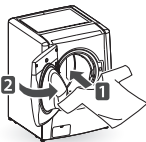








This compartment holds liquid fabric softener, which will be automatically dispensed during the final rinse cycle.

! NOTE

- Always follow the manufacturer's recommendations when adding fabric softener. Do not exceed the maximum fill line. Using too much fabric softener may result in stained clothes.
- Dilute concentrated fabric softeners with warm water. Do not exceed the maximum fill line.
- Never pour fabric softener directly onto the load or into the drum.

USING YOUR WASHING MACHINE

Basic operation

- 1  Load the laundry into the washing machine and close the door.
- 2  Press .
 - The lights around the cycle selector knob will illuminate and a chime will sound.
- 3  Turn  to the desired cycle.
 - The proper default option is automatically set according to the wash cycle. See page 25, **Cycle guide**, for more detailed default options for each cycle.
 - See page 26, **Main cycle**, for details on the wash cycles.
 - To change the options, press the option button and select the desired option. See page 28, **Setting options before cycle**, for more details on options.
 - Skip to step 4 to use the default setting without changing the options.
- 4  Add the proper amount of detergent and additional products (bleach, softener) into the dispensers.
 - See page 22, **Using detergent/fabric softener**, for more details on using detergent.
- 5  Press .
 - The washing machine starts.
- 6  When the melody plays, the wash cycle is finished.
 - When the washing cycle is finished, the door unlocks. Open the door and remove the laundry immediately.
 - Make sure to check around the door seal when taking out the finished load. Small items may be caught in the door seal.

WARNING

- To reduce the risk of fire, electric shock, or injury to persons, **read the IMPORTANT SAFETY INSTRUCTIONS before operating this appliance.**

NOTE

- The front-load washing machine rotates the laundry in a way that allows it to use less water while still fully saturating your clothing. It is normal to not be able to see water during the wash cycle.
- If the temperature or the water level inside the machine is too high, the door locks and cannot be opened. To open the door while washing, use the Rinse + Spin feature.

Cycle guide

The cycle guide below shows the options and recommended fabric types for each cycle.

● = Available option


Cycle	Fabric Type	Display Time(min) (Option : Default)	Basic Option (★=Default)			Additional Options					
			Wash Temp.	Spin Speed	Soil Level	Steam	Cold Wash™	Delay Wash	Extra Rinse	Pre Wash	Turbo Wash™
Bright Whites™	White Fabrics	72 ~ 85	Hot★ Warm Cold Tap Cold	Extra High High★ Medium Low No Spin	Heavy Normal★ Light	●		●	●	●	●
Allergiene™	Cotton, underwear, pillow covers, bed sheets, baby wear	103 ~ 138	-	Extra High High★ Medium Low No Spin		●		●	●		●
Sanitary	Heavily soiled underwear, work clothes, diapers, etc.	116 ~ 129	Extra Hot★	Extra High High★ Medium Low No Spin	Heavy Normal★ Light	●		●	●	●	●
Bedding	Large items such as blankets and comforters	62	Hot Warm★ Cold Tap Cold	Medium★ Low No Spin	Heavy Normal★ Light	●	●	●	●	●	●
Heavy Duty	Heavily soiled Cotton Fabrics	89 ~ 132	Extra Hot Hot Warm★ Cold Tap Cold	Extra High★ High Medium Low	Heavy★ Normal Light	●	●	●	●	●	●
Normal	Cotton, linen, towels, shirts, sheets, jeans, mixed loads	26 ~ 53	Extra Hot Hot Warm★ Cold Tap Cold	Extra High High★ Medium Low	Heavy Normal★ Light	●	●	●	●	●	●
Jumbo Wash	Comforter	62	Hot Warm★ Cold Tap Cold	High★ Medium Low No Spin	Heavy Normal★ Light	●	●	●	●	●	●
Perm.Press	Dress shirts/pants, wrinkle-free clothing, poly/cotton blend clothing, tablecloths	37 ~ 47	Hot Warm★ Cold Tap Cold	High Medium★ Low	Heavy Normal★ Light		●	●	●	●	●
Delicates	Dress shirts/ blouses, nylons, sheer or lacy garments	41	Warm Cold★ Tap Cold	Medium★ Low No Spin	Heavy Normal★ Light		●	●	●	●	
Towels	Towels	61 ~ 74	Hot Warm★ Cold Tap Cold	Extra High★ High Medium Low No Spin	Heavy Normal★ Light		●	●	●	●	●
Speed Wash	Lightly soiled clothing and small loads	15	Hot★ Warm Cold Tap Cold	Extra High★ High Medium Low No Spin	Heavy Normal Light★		●	●	●		●
Rinse + Spin	Rinse, drain and spin only	18	Cold★	Extra High High★ Medium Low No Spin	-			●	●		
Tub Clean	This cycle is designed to remove a mildewy or musty smell.	93 ~ 95				●		●			
Downloaded * Default: Small Load	Normally soiled and small loads.	49 ~ 51	Hot Warm★ Cold Tap Cold	Extra High High★ Medium Low No Spin	Heavy Normal★ Light		●	●	●	●	

Cycle time depends on type and amount of load and detergent, water pressure and chosen additional options.

- If the Turbo Wash™ option is on, you cannot select No Spin as your Spin.

(If the Turbo Wash™ option is off, you can select No Spin as your Spin.)

Main cycle

You can wash laundry items more thoroughly by selecting the wash cycle that best suits the type of items to be washed. Turn the  to the desired cycle. When you select a wash cycle, the light for the corresponding wash cycle will turn on. See page 24, **Basic operation**, for more details on operating methods.

For white fabrics, **Bright Whites™**

This cycle is for washing white items only.

Reduce laundry allergen, **Allergiene™**

This cycle is a powerful, high temperature cycle designed specifically to reduce certain allergens.

! NOTE

- Selecting the Allergiene™ cycle automatically incorporates steam into the wash cycle.
- The Allergiene™ cycle can significantly reduce allergens in bedding and clothing.
- The Allergiene™ cycle helps reduce dust mite populations and helps reduce allergens.
- Due to the higher energy and temperatures used, the Allergiene™ cycle is not recommended for wool, silk, leather, or any other delicate or temperature sensitive items

Reduce laundry bacteria, **Sanitary**

This wash cycle reduces 99% of bacteria on laundry through high temperature.



Protocol P172
Sanitization Performance of Residential and Commercial, Family Sized Clothes Washers

! NOTE

- This cycle has been certified by NSF using Tide HE powder.

Blankets or bulky items, **Bedding**

This cycle is for washing blankets or bulky items.



Heavily soiled items, **Heavy Duty**

This cycle is for washing heavily soiled laundry though more powerful tub rotation.

Normal items, **Normal**

Use this cycle to wash all normal items, except delicate fabrics such as wool or silk.

! NOTE

- If you press  and then  without selecting another cycle, the washing machine proceeds to Normal.

Comforters, **Jumbo Wash**

This cycle is for washing king or queen comforter.

Wrinkle free items, **Perm.Press**

This cycle is for washing items such as wrinkle-free clothes or tablecloths to minimize wrinkles.

Sheer items, **Delicates**

This cycle is for washing lingerie or sheer and lacy clothes which can easily be damaged.

For towels, **Towels**

This cycle is for washing towels.

Quick wash, **Speed Wash**

Use the Speed Wash cycle to quickly wash lightly soiled clothing and small load. For high wash and rinse efficiency, it is recommended to wash small loads of 2-3 lightly soiled garments.

! NOTE

- Use very little detergent in this cycle. If you want more rinsing, you can add an extra rinse by using the Extra Rinse option button.

Rinse, drain and spin only, **Rinse + Spin**

This cycle is for rinsing detergent from the load.

Downloading cycles, **Downloaded**

For downloadable cycles. The default cycle is Small Load. (See page 33.)

Cycle modifier buttons

Each cycle has preset settings that are selected automatically. You may also customize the settings using the cycle modifier buttons. Press the button for that option to view and select other settings.





The washer automatically adjusts the water level for the type and size of wash load for best results and maximum efficiency. It may seem there is no water inside the drum in some cycles, but this is normal.

! NOTE

- To protect your garments, not every wash/rinse temperature, spin speed, soil level, or option is available with every cycle. See the Cycle Guide for details.

Setting the water temperature, Temp.

Set the water temperature for the wash cycle. Set the appropriate temperature, as specified in the fabric care label.





- 1 Press  and turn  to the desired cycle.
- 2 Press  repeatedly to select the desired water temperature:
 - When an optional item is selected, an indication light for the corresponding optional item turns on.
- 3 Press the desired option button to use the other options.
 - Skip to step 4 to use the default setting without changing the options.
- 4 Press .

! NOTE

- Cold rinses use less energy.
- Your washer features a heating element to boost the hot water temperature for Extra Hot settings. This provides improved wash performance at normal water heater settings.
- Select the water temperature suitable for the type of load you are washing. Follow the fabric care label for best results.

Setting spin speed, Spin

You can set the desired spin speed. Use this feature properly according to the characteristics of the load.





- 1 Press  and turn  to the desired cycle.
- 2 Press  repeatedly to select the desired spin speed.
 - When an optional item is selected, an indication light for the corresponding optional item turns on.
- 3 Press the desired option to use the other options.
 - Skip to step 4 to use the default setting without changing the options.
- 4 Press .

! NOTE

- The Spin button also activates the Drain&Spin cycle to drain the tub and spin clothes; for example, if you want to remove clothes before the cycle has ended.
- To use Drain&Spin, press the Power button, then press the Spin button repeatedly to select a spin speed. Press the Start/Pause button to begin.

Setting soil level of laundry, Soil

You can wash your laundry more thoroughly by setting the proper soil level on the washing machine.




- 1 Press  and turn  to desired cycle.
- 2 Press  repeatedly to select a soil level.
 - When an optional item is selected, an indication light for the corresponding optional item turns on.
- 3 Press the desired option to use the other options.
 - Skip to step 4 to use the default setting without changing the options.
- 4 Press .

! NOTE

- This feature needs more time for heavily soiled loads or less time for lightly soiled loads.

Adjusts the melody and button tones, Signal

The washing machine plays a melody when the wash cycle is finished. The buttons make a sound each time a button is pressed. The volume of the melody and button tones can be changed or turned off as desired.

- 1 Press .
- 2 Turn  to the desired cycle.
- 3 Press **Signal**. Adjust the melody and button tones as desired.
- 4 Press the desired option to use the other options.
- 5 Press .





Setting options before cycle

You can select and add the desired optional functions before you start the washing machine.

High temperature, Steam

Adding the Steam option to these cycles helps to enhance washing performance.

By using hot steam fabrics get the cleaning benefits of a super hot wash.

- 1 Press  and turn  to the desired cycle.
- 2 Press . The washer will automatically adjust the cycle settings.
- 3 Set any other desired options.
- 4 Press .

! WARNING

- Do not touch the door during steam cycles. The door surface can become very hot. Allow the door lock to release before opening the door.
- Do not attempt to override the door lock mechanism or reach into the washer during a steam cycle. Steam can cause severe burns.

! NOTE

- The steam option cannot be used with all cycles.
- Steam may not be clearly visible during the steam cycles. This is normal. Too much steam could damage clothing.
- Do not use steam with delicate fabrics such as wool, silk, or easily discolored fabrics.

Lower energy costs, Smart Grid






The smart appliance can communicate with local utility companies that are equipped with Smart Grid equipment. (See page 32).

Control the appliance remotely, Remote Start

Use a smart phone to control the appliance remotely. Or, monitor the cycle operation to see how much time is left in the cycle. (See page 32).

Presetting the start time, Delay Wash




Set the desired start time.

- 1 Press  and turn  to the desired cycle.
- 2 Press the desired option to use the other options.
- 3 Press  repeatedly to select the desired start time.
 -  light will turn on.
 - The set start time appears on the display panel.
 - Each press of the button increases the delay time by one hour, up to 19 hours.
- 4 Press .

Selecting your customized cycle, Custom PGM

Recall a customized wash cycle that was previously saved.





To recall a cycle

- 1 Press  after then press .
- 2 Press .

You can save a cycle with all the settings and options you use most frequently.

Saving time, Turbo Wash™

Adding the Turbo Wash™ option reduces cycle time and provides good performance in normal cycle. Using Turbo Wash™ saves time without sacrificing performance.

- 1 Press  and turn  to the desired cycle.
- 2 Press . The washer will automatically adjust the cycle settings.
- 3 Set any other desired options.
- 4 Press .





! NOTE

- The Turbo Wash™ option cannot be used with all cycles.
- The option is selected by default on the Normal, Heavy Duty, and Perm. Press cycles.

Saving energy, Cold Wash

Adding the Cold Wash option reduces energy usage and provides the same washing performance as a warm water wash.

By using 6 different washing motions (Tumbling, Rolling, Stepping, Scrubbing, Swing, Filtration), fabrics get the cleaning benefits, without the energy usage.






- 1 Press  and turn  to the desired cycle.
- 2 Press . The washer will automatically adjust the cycle settings.
- 3 Set any other desired options.
- 4 Press .

! NOTE

- When you select the Cold Wash option, wash time will be increased up to 5 - 20 minutes.
- For high wash efficiency, it is recommended to use less than 8 pounds.






Adding extra rinse cycle, Extra Rinse

Add an extra rinse cycle to the default rinse cycle.

- 1 Press  and turn  to the desired cycle.
- 2 Press .
 -  light will turn on.
- 3 Press the desired option to use the other options.
 - Skip to step 4 to use the default setting without changing the options.
- 4 Press .

Prewashing, Pre Wash

Pre-wash for 15 minutes when clothes are covered in dirt or dust. This feature is suitable for heavily soiled items.






- 1 Press  and turn  to the desired cycle.
- 2 Press .
 -  light will turn on.
- 3 Press the desired option to use the other options.
 - Skip to step 4 to use the default setting without changing the options.
- 4 Press .

Setting the options during cycle

Add the desired options during the wash cycle.

Tumble clothes to prevent wrinkles, Fresh Care

Use this function when you are not able to take out your clothes as soon as the wash cycle ends.

- 1 Press  and turn  to the desired cycle.
- 2 Press and hold  for 3 seconds during the wash cycle.
 -  light will turn on.
- 3 Select any desired options.
 - Skip to step 4 if you would like to use the default settings without changing or adding any options.
- 4 Press .




NOTE

- This function provides periodic tumbling for up to about 19 hours to prevent wrinkles. If you press the START/ PAUSE or ON/ OFF button, you can unload your laundry at anytime.

Saving customized wash cycle, PGM Save





Save a special combination of settings that are used frequently.

To save a cycle

- 1 Press  and turn  to the desired cycle.
- 2 Press the desired option to use the other options.
- 3 Press and hold  for 3 seconds during the wash cycle.
 - The cycle with your preferred settings and options is saved.

Drum Lighting, Drum Light

The drum is equipped with a white LED light that illuminates when the washer is turned on. This light automatically turns off when the door is closed and the cycle starts. To turn on the light during a cycle.

- 1 Press  and turn  to the desired cycle.
- 2 Press .
- 3 Press and hold  for 3 seconds during the wash cycle.


- The drum light will illuminate and then turn off automatically after 4 minutes.


- Clothes and the gasket may look like yellow due to lights of the lamp, but it is normal.

Button lock feature, Child Lock

Lock the washing machine to prevent children or others from changing the cycle settings by pressing the buttons during the cycle.


To enable child lock

Press and hold  for 3 seconds during the wash cycle.

- When the Child Lock is enabled, a  message and the remaining wash time are displayed, in turn, on the display panel of the washing machine.

To disable child lock

(When the Child Lock is activated.)

Press and hold  for 3 seconds during the wash cycle.

NOTE

- Child Lock lasts after the end of cycle. If you want to deactivate this function, Press and hold the Pre Wash button for 3 seconds.

SMART APPLIANCE CONNECTIVITY

Connectivity Overview

This smart appliance offers options for doing laundry. Once it is connected to the internet through a home Wi-Fi network, it can check the progress of a cycle and control the appliance remotely with the LG Smart Laundry application for the smart phone.

The application can be set up to send push notifications when the cycle is complete or the appliance has problems. It also provides a list of extra cycles available for download, and helps to troubleshoot problems by recording and analyzing data from the appliance. The appliance has Smart Grid capability for areas where the utility company has installed Smart Grid equipment. This feature adjusts the appliance operating times based on when electricity prices are lower or delays operation when the demand for electricity is high.

Connectivity Setup

Install LG Smart Laundry application

1. Run the Google Play Store on an Android smart phone.
 2. Search for LG Smart Laundry.
 3. Press LG Smart Laundry on the resulting list.
 4. Press INSTALL and ACCEPT to automatically install the application. You can also check the progress through the smart phone.
 5. When the installation is complete, touch the icon to access the application.
- LG Smart Laundry application for iOS devices will be supported later.

Profile Setup (ID and Password setup)

You can skip these steps if you already have an LG account at <http://us.smartthinQ.com>

1. Run the LG Smart Laundry application on a smart phone.
2. Select Login at the bottom of the screen.
3. Select **Create an account** at the bottom of the screen.
4. On the next page, agree to the Terms and Conditions, Privacy Policy, and LG Account Terms and Conditions. After selecting **I agree**, press Confirm.
5. Next, in the e-mail box, enter your email address. This will be your user ID. You will receive a confirmation email for activating the account at that email address.
6. Enter a password. Passwords are case sensitive.
The password should be 6-12 characters. Remember your ID and password. They will be used on the LG Smart Laundry application to use Smart Appliance Connectivity functions.

7. Enter your name.
8. Enter your mobile number.
9. Press the Subscribe button. The system will send you an email containing a link to confirm your identity for the account.
10. Press the CONFIRM button in the confirmation email, and the website will display a confirmation page. Your account is not set up.

Product Registration and Wi-Fi Setup

1. Run the LG Smart Laundry application on a smart phone.
2. Select Smart Appliance.
3. Select Washer.
4. Select Front Load.
- If you see a pop-up message about NFC, press the Cancel button.
5. Press the Wi-Fi model button at the bottom of the screen.
6. Enter the email ID and password you registered.
If you don't have an account at <http://us.smartthinQ.com>, press the **Create an account** button and create a user ID and password.
7. Select the Login button.
8. On the next page, the application shows the Wi-Fi network list. Select your home network. If your network requires a key, enter the password and select the Connect button.

9. If the application successfully connects to the home network, turn on the washer and then press and hold the Wi-Fi Connect button on the washer for three seconds.

After powering on the washer, do not press any other buttons before pressing and holding the Wi-Fi Connect button. The Wi-Fi connection indicator on the washer blinks to indicate the machine is connecting.

10. The application now works to connect the appliance and register it as a Wi-Fi product. A notification appears when the washer is successfully set up and the product registration and Wi-Fi setup is complete. The Wi-Fi connection indicator illuminates when the machine connects to the home network.

NOTE

- The machine supports 2.4 GHz Wi-Fi networks only.
- Use the Settings menu in the application to register or change the machine. Select Settings > Change Product > Add Product and then follow steps 2–10 above.
- If the router or the router's password is changed, select Settings > Change Product > Add Product and then follow steps 2–10 above.
- If the appliance is having trouble connecting to the Wi-Fi network, it may be too far from the router. Purchase a Wi-Fi repeater (range extender) to improve the Wi-Fi signal strength.
- The Wi-Fi connection may not connect or may be interrupted because of the home network environment.
- The network connection may not work properly depending on the Internet service provider.
- The surrounding wireless environment can make the wireless network service run slowly.
- This information is current at the time of publication. The application is subject to change for product improvement purposes without notice to users.

Smart ThinQ

Remote Start

Use a smart phone to control the appliance remotely. Or monitor the cycle operation to see the remaining time left in the cycle.

NOTE

- You must first connect to a gateway and register your appliance in order to use the Remote Start function.
- The Remote LED on the control panel should be illuminated.

Using Remote Start

1. Press and hold the Remote Start button. The Remote LED on the control panel is illuminated if the appliance is connected to a Wi-Fi network.
2. Start a cycle from the application on a smart phone. If the cycle is not started, the machine will wait to start the cycle until it is turned off remotely from the application or the Remote Start mode is disabled.

NOTE

- Cycles and options cannot be selected at the appliance when the machine is in Remote Start mode.
- Press and hold the Remote Start button again to enable the Remote Start mode when the appliance is turned off or the Remote Start mode is released.

Smart Grid

Reduce energy costs from washing clothes by avoiding peak usage periods, with information supplied by your local electric utility company. If your utility company has equipped your home with Smart Grid technology, you will need to contact the utility company for information regarding the Smart Grid features.

NOTE

- When Smart Grid is enabled, you may experience delays or extended cycle times during peak usage periods.

NOTE

- You must first connect to a gateway and register your appliance in order to use the Smart Grid function.

Download Cycle

The Download Cycle features of this appliance allow you to download new and special cycles that are not included in the basic cycles on the appliance.

Appliances that have been successfully registered can download a variety of specialty cycles specific to the appliance. Only one cycle can be stored on the appliance at a time.

Once Cycle Download is completed in the washer, the product keeps the downloaded cycle until you change it to a new download cycle.

! NOTE

- You must first connect to a gateway and register your appliance in order to use the Download cycle function.

Smart Diagnosis™

Use your phone to record the Smart Diagnosis™ signal if you have problems with your appliance. The application can analyze the signal and help you solve the problem without waiting for a technician.

Cycle Set

Cycle Set helps you choose the best cycle and settings based on your laundry needs.

Once you have selected your cycle based on the Cycle Set guide, the cycle and settings will be automatically set.

! NOTE

- Cycle Set function can be enabled when the Remote Start button is activated.

Laundry Stats

Laundry Stats will tell you basic stats about your appliance such as your cycle history and basic maintenance timing.

Select Laundry Stats at the application to get the stats and find out when the washer's next Tub Clean is due.

! NOTE

- You must first connect to a gateway and register your appliance in order to use the Laundry Stats function.

Smart Message

When the cycle is complete or the appliance has problems, you have the option of receiving push notifications on your smart phone.

! NOTE

- You must first connect to a gateway and register your appliance in order to use the Smart Message function.

Energy Monitoring

Your washer energy usage is affected by the cycle and options so you may see some changes in energy usage from one cycle to another.

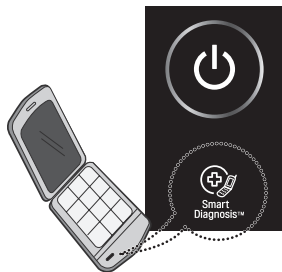
! NOTE

- You must first connect to a gateway and register your appliance in order to use the Energy Monitoring function.

USING SMART DIAGNOSIS™

Should you experience any problems with your washer, it has the capability of transmitting data to a smart phone using the LG Smart Laundry Application or via a telephone to the LG call center. Smart Diagnosis™ cannot be activated unless the washer is turned on by pressing the POWER button. If the washer is unable to turn on, then troubleshooting must be done without using Smart Diagnosis™.

Audible Diagnosis



Smart Diagnosis™ Through the Call Center

1. Call the LG call center at: (LG U.S.) 1-800-243-0000 (LG Canada) 1-888-542-2623.
2. When instructed to do so by the call center agent, hold the mouthpiece of your phone over the Smart Diagnosis™ logo on the machine. Hold the phone no more than one inch (but not touching) the machine.

! NOTE

- Do not touch any other buttons or icons on the display screen.

! NOTE

- Smart Diagnosis is a troubleshooting feature designed to assist, not replace, the traditional method of troubleshooting through service calls. The effectiveness of this feature depends upon various factors, including, but not limited to, the reception of the cellular phone being used for transmission, any external noise that may be present during the transmission, and the acoustics of the room where the machine is located. Accordingly, LG does not guarantee that Smart Diagnosis would accurately troubleshoot any given issue.

3. Press and hold the **Temp.** button for three seconds.
4. Keep the phone in place until the tone transmission has finished. The display will count down the time.
5. Once the countdown is over and the tones have stopped, resume your conversation with the call center agent, who will then be able to assist you in using the information transmitted for analysis.

MAINTENANCE

Care

Care after wash

After the cycle is finished, wipe the door and the inside of the door seal to remove any moisture. Leave the door open to dry the washer tub interior. Wipe the body of the washing machine with a dry cloth to remove any moisture.

WARNING

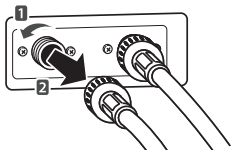
- Unplug the washer before cleaning to avoid the risk of electric shock. Failure to follow this warning can cause serious injury, fire, electric shock or death.
- Never use harsh chemicals, abrasive cleaners, or solvents to clean the washer. They will damage the finish.
- Do not use volatile substances (benzene, paint thinner, alcohol, acetone, etc.) or detergents with strong chemical components when cleaning the washing machine. Doing so may cause discoloration or damage to the machine, or it may cause a fire.




Care in cold climates


Storing the washing machine for an extended period of time

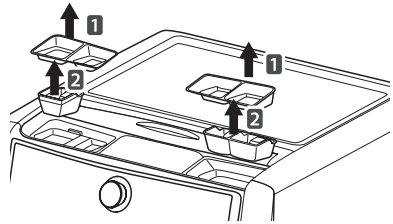
Follow the instructions for storing the washing machine if you do not use it for an extended period of time in cold climates below freezing point.

- 1 Turn off the faucets connected with the water lines.
- 2 Unscrew the water lines from back of the washer.



- 3 Empty any water out of the water lines.
 - 4 Press .
 - 5 Open the door and add 1 gallon (3.8 L) of nontoxic recreational vehicle (RV) antifreeze to the empty washer tub. Close the door.
 - 6 Press  for draining and spinning.
 - 7 Press .
- Drain the water from the washing machine for 1 minute. Not all of the RV antifreeze will be expelled.

- 8 Press  to turn off the washing machine and pull out the power plug.
- 9 Dry the tub interior of the washer tub with a soft cloth, and close the door.






- 10 Slide back the top cover. Remove the detergent dispenser covers and pull out the liquid detergent cups.
- 11 Drain the water from the detergent dispenser and dry out each compartment.
- 12 Store the washing machine in an upright position.




NOTE

- To remove the antifreeze after storing the washing machine, add detergent to the dispenser, and run one cycle. Do not load any laundry at this time.

When the water line is frozen

- 1 Turn off the faucets connected with the water lines.
 - 2 Pour hot water on the frozen faucets to thaw the water lines and pull them out.
 - 3 Immerse the water lines in hot water to thaw them.
 - 4 Connect the water lines with the water inlets of the washing machine and faucets.
- See page 16, **Connecting the water lines** for details.
- 5 Turn on the faucets.
 - 6 Press .
 - 7 Press .
 - 8 Press .
- Verify the water fills properly.

When the Drain Line is Frozen





- 1 Pour hot water in the washer tub and close the door.
 - Leave it for 10 minutes.
- 2 Press  after 10 minutes.
- 3 Press  for draining and spinning.
- 4 Press .
 - Check if the water drains.

Cleaning

Periodically clean the washing machine to help maintain its performance and to minimize the chance of malfunction.

Cleaning the drum, Tub Clean

Improper installation or use of the washing machine in a humid space for a long period of time potentially could lead to a buildup of detergent residue in the washing machine that may produce mildew or musty smells. If you clean the washer tub regularly on a monthly basis using Tub Clean it will minimize the possibility that detergent residue will build up and mildew or musty smells may occur.

- 1 Add tub cleaner or lime scale remover into the detergent dispenser.
 - Do not exceed the maximum detergent limit line when you add it. Detergent may remain in the washer tub after cleaning.
 - **When you use liquid chlorine bleach**, load it into the liquid chlorine bleach compartment.
 - **When you use a powdered cleaner**, pull out the liquid detergent cup and add it into the main wash detergent compartment.
 - **When you use cleaning tablets**, place them directly into the washer tub. (Do not add tablet cleaner to the dispenser.)
- 2 Press .
- 3 Turn  to Tub Clean.
 -  message appears in the display.
 - The indication light for Tub Clean turns on.
- 4 Press .

NOTE

- Never load laundry while using Tub Clean. The laundry may be damaged. Make sure to clean the washer tub when it is empty.
- It is recommended to leave the door open after finishing the laundry to keep the tub clean.
- It is recommended that Tub Clean should be repeated monthly.
- If you notice mildew or musty smells, run Tub Clean for 3 consecutive weeks.

Automatic alert for cleaning washing machine

When the power is on and the **CL** message blinks, it means the washer tub needs cleaning. Use Tub Clean to clean the washer tub. The automatic indication alert for cleaning the washer tub depends on the frequency of use, however, the message will generally blink every 1~2 months.

Removing mineral buildup

If you live in an area with hard water, mineral scale can form on the internal components of the washing machine. Take extra care to periodically clean the mineral buildup on the internal components to extend the lifespan of the washing machine.

Removing mineral buildup from the washer tub

Check if the descaler is suitable for cleaning the washer tub before using it and run the Tub Clean cycle. See page 36, **Tub clean** for details on tub clean.

NOTE

- In areas with hard water, it is recommended to use a water softener.
- Make sure to remove all loads from the washer tub before cleaning the washer tub. Cleaning the washer tub together with a load may result in contamination of or damage to the laundry.

Removing lime buildup on stainless steel

Wipe lime buildup or other spots on stainless steel with a soft cloth soaked in stainless steel cleaner.

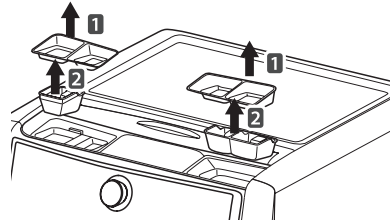
NOTE

- Never use steel wool or abrasive cleansers. Doing so may damage the washing machine.

Cleaning the detergent dispenser

Leaving detergent in the detergent dispenser for an extended period of time or using the washing machine for a long period of time may cause the build-up of scales in the detergent dispenser. Pull out and clean the detergent dispenser once a week.

- 1 Slide the detergent dispenser lid open..
- 2 Remove the detergent dispenser covers and pull out the detergent cups.



- 3 Clean them with warm water.
 - Use a soft cloth or brush for cleaning and remove any residue.
- 4 Wipe any moisture with a dry towel or cloth after cleaning.
- 5 Replace the detergent cups and detergent dispenser covers.

WARNING


- Do not spray water inside the washing machine. Doing so may cause fire or electric shock.

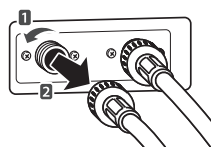
NOTE

- Use water only when you clean the detergent dispenser. Make sure to use Rinse + Spin to rinse the washer tub before the wash cycle when you use a cleaning detergent to clean the washer tub.

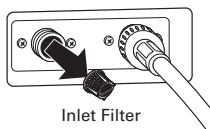
Cleaning the water inlet filters

Clean the water inlet filters periodically to prevent clogging. Take extra care to clean the water inlet filters for areas using hard water. Water may not be supplied if there are foreign objects, such as rust, sand, or stones in the water inlet filters.

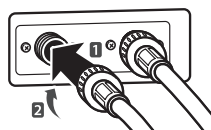
- 1 Press  to turn off the washing machine and pull out the plug.
- 2 Turn off the faucets connected with the water inlets.
- 3 Remove the water inlets.



- 4 Pull out the water inlet filter.




- 5 Remove foreign objects from the water filter inlet.
 - Soak the water filter inlets in white vinegar or a lime scale remover or use a toothbrush to remove foreign objects and rinse thoroughly.
- 6 Press the water filter inlets back into place.
- 7 Reattach the water lines to the washing machine.



! WARNING


- **Unplug the power cord and turn off the faucets before cleaning.** Failure to do so may cause electric shock.
- **Do not use the washing machine without the inlet filters.** If you use the washing machine without the inlet filters it will cause leaks and malfunction.
- If you use the washing machine in an area with hard water, the inlet filter may clog due to lime buildup. Contact your nearest LG customer service center if the inlet filter is not clean or is missing.

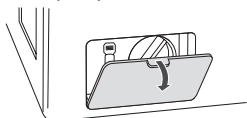
! NOTE

- An  message blinks on the display when the water pressure in the detergent dispenser is weak or an inlet filter is clogged with dirt. Clean the inlet filter.

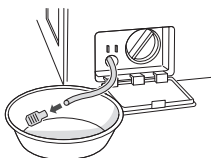
Cleaning the drain pump filter

The washing machine fails to drain if the drain pump filter is clogged. Periodically clean the drain filter to prevent clogging with foreign objects.

- 1 Press  to turn off the washing machine and pull out the plug.
- 2 Open the drain pump filter cover.



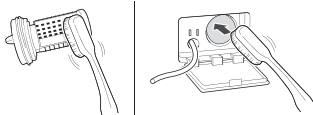
- 3 Unclip the drain hose and remove the plug from the drain hose to drain the remaining water.



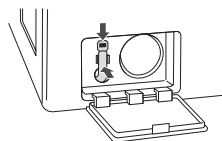
- 4 Twist the pump filter counterclockwise to remove.



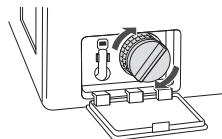
- 5 Clean the pump filter and opening.



- 6 Recap the plug onto the drain hose and reattach the drain hose.



- 7 Insert the drain pump filter.




- 8 Close the drain pump filter cover.

⚠ WARNING

- Make sure to pull out the plug before cleaning. Failure to do so may cause electric shock.
- Opening the drain filter will result in water overflowing if there is water in the washer tub. **Make sure to check if the water is completely drained before opening the drain filter.**
- If you use the washing machine with the drain filter reassembled incorrectly after cleaning it, or if you use the machine without the filter, it may cause leaks or malfunction of the washing machine.

ⓘ NOTE

- An  message blinks when the drain pump filter is clogged with dirt. Clean the drain pump filter.

Cleaning the door seal

Clean the door seal once a month to prevent build-up of dirt in the door seal.

- 1 Wear rubber gloves and protective goggles.
- 2 Dilute 3/4 cup (177 ml) of liquid chlorine bleach in 1 gallon (3.8 L) of water.
- 3 Soak a sponge or a soft cloth in this diluted solution and wipe down all around the door seal.
- 4 Wipe any moisture with a dry towel or cloth after cleaning.
- 5 Leave the door open to allow the door seal to dry completely.
















CAUTION

- Cleaning the door seal with undiluted bleach may cause malfunction of the door seal and washing machine parts. You must add water to the bleach before using it.

TROUBLESHOOTING


Checking error messages

If the following message appears on the display, check the following and take the appropriate corrective action.

Message	Possible Causes	Solutions
	Item of clothing has gathered on one side of the tub. • There are not enough items in the machine. • Have your items gathered in one area, or is the load too small? • Did you wash a stuffed animal, a mat, or knitwear? • Did you wash two different blankets together?	• Rearrange items to help balance the load. • Stuffed animals or mats can become unbalanced during spinning and the washing machine may fail to drain. Rearrange the knitwear to help balance the load and drain it again. • Put one blanket in at a time.
	Water is not supplied or the water pressure is low • Is the faucet turned off? • Is the water supply stopped or the faucet frozen? • Is the water pressure low or is an inlet filter clogged? • Is the water line properly connected with the cold water inlet? • Is the water line pinched or bent? Water line leaks in connection • Are the water lines connected with the faucets properly?	• Turn on the faucets. • If a faucet is frozen, thaw it with warm water. • If the inlet filter is clogged, clean it. (see page 38) • Connect the water line properly with the cold water inlet. (see page 16) • Check that the water lines are not pinched or bent. Take extra care that water lines are not twisted or pinched by other objects. • Connect the water lines properly with the faucets. (see page 16)
 	The tub does not rotate • Is the door secured?	• Close and secure the door. If the message keeps appearing, unplug the power and contact your nearest LG service center.
	The washing machine drains slowly or not at all • Is the drain hose installed over 3 1/4 feet (1 m) beyond the end of the elbow bracket? • Is the drain hose pinched or clogged inside? • Is the drain hose frozen? • Is the drain hose clogged with foreign objects?	• Lower the drain hose within 3 feet below the end of the elbow bracket. • Place the drain hose on a smooth surface to prevent bending. • If the drain hoses are frozen, thaw them in warm water. • Open the drain pump plug cap and remove the dirt.
	A power failure has occurred.	• Press  to turn off the washing machine and press it again to turn it on.
	Control Error.	• Unplug the power cord and contact your nearest LG service center.
	The water supply does not stop • Do the water supply and the drain keep repeating in turn?	• Unplug the power cord and contact your nearest LG service center
	The water level is not controlled • Is the water level too low or high compared with the size of the load?	• The water level sensor is not working correctly. • Unplug the power cord and contact your nearest LG service center.
	The tub does not rotate • Is the washing machine overloaded?	• Rearrange the load size and restart the washing machine. • If the load size is big, the tub may not rotate due to an overheated motor. Allow the washing machine to stand for a while and restart the cycle. Unplug the power cord and contact your nearest LG service center if the same error message appears.
	• Time to run the Tub Clean cycle.	• Empty the tub, insert bleach into the detergent dispenser and select the Tub Clean cycle. • To skip the Tub Clean cycle, turn the cycle selector knob or push option buttons to select desired cycle. The reminder message reappears for a few wash cycles then disappears until the next scheduled tub clean cycle.
	• If the washing machine detects too many suds, it displays this error code and adds a Suds Reducing cycle. This adds about two hours to the cycle time. If too many suds are detected during spinning, the washing machine stops to help prevent leaking.	• Do not add more than the manufacturer's recommended amount of detergent.

Before calling for service

Check the following before calling for service.

Problem	Possible Causes	Solutions
Clicking sound	<ul style="list-style-type: none"> Do you hear a sound when you close or lock and unlock the door? 	<ul style="list-style-type: none"> This sound is normal and occurs when the door is closed, locked or unlocked.
Spraying or hissing sound	<ul style="list-style-type: none"> Is water spraying in the tub? 	<ul style="list-style-type: none"> This sound is normal as water is spraying or circulating during the cycle.
Buzzing or gushing sound	<ul style="list-style-type: none"> Is the washing machine draining water? 	<ul style="list-style-type: none"> This sound is normal as the drain pump drains water from the washing machine after the cycle.
Splashing sound	<ul style="list-style-type: none"> Is the washing machine washing a load of laundry? 	<ul style="list-style-type: none"> This sound is normal as the load is moving up and down during the wash and rinse cycles.
Rattling and clanking noise	<ul style="list-style-type: none"> Are there any foreign objects such as keys, coins, or safety pins in the tub or drain filter? 	<ul style="list-style-type: none"> Check if there are any foreign objects in the tub and drain the filter after stopping the cycle. Unplug the power cord and contact your nearest LG service center if the noise persists.
Thumping sound	<ul style="list-style-type: none"> Is the washing machine overloaded? Is the load out of balance? 	<ul style="list-style-type: none"> This sound is normal and occurs when the load is out of balance. Stop the cycle and rearrange the load for balancing.
Vibrating noise	<ul style="list-style-type: none"> Are the shipping bolts removed? Is the load evenly distributed in the tub? Is the washing machine level balanced? Is the washing machine installed on a solid and smooth surface? 	<ul style="list-style-type: none"> See page 15, Unpacking and removing shipping bolts to remove the shipping bolts. Stop the cycle and rearrange the load for balancing. See page 18, Leveling the washing machine to level the washing machine. Check if the floor is solid and level.
Water leaking around washer	<ul style="list-style-type: none"> Does water leak from a faucet or a water line? Is a drain pipe or a drain hose clogged? 	<ul style="list-style-type: none"> Check the faucets or water lines. <ul style="list-style-type: none"> If the water lines are loosely connected, see page 16, Connecting water lines to connect them properly. Unclog the drain pipe or drain hose. Contact a plumber if necessary.
Excessive suds or failure to rinse	<ul style="list-style-type: none"> Did you use more than the recommended amount of detergent? Is the soil level higher than the size of the load? 	<ul style="list-style-type: none"> Use the recommended amount of detergent for load. If the contamination level is low, reduce the detergent quantity to less than the recommended level. <p> Only use detergent with the HE (High-Efficiency) logo.</p>
Staining	<ul style="list-style-type: none"> Did you add detergent directly to the tub? Did you remove the load immediately after it finished? Did you sort and wash the clothes by color or soil? 	<ul style="list-style-type: none"> Make sure to load detergent into the detergent dispenser. Remove the load immediately after it finishes. Sort and separate dark colors from light or white ones, and heavily soiled items from lightly soiled ones. See page 21, Sorting laundry for details

Problem	Possible Causes	Solutions
Wrinkling	<ul style="list-style-type: none"> Did you remove the load immediately after it finished? Did you overload the tub? Did you reverse the hot and cold water inlets? 	<ul style="list-style-type: none"> Remove the load immediately after it finishes. Do not overload the tub. Hot water rinse can cause garments to wrinkle. Check the inlet hose connections.
Power is not turned on	<ul style="list-style-type: none"> Is the power cord plugged in properly? Has a house fuse blown, a circuit breaker tripped, or a power outage occurred? 	<ul style="list-style-type: none"> Make sure that the plug is secured in a grounded 3-prong, 120 V (60 Hz) outlet. Reset the circuit breaker or replace the fuse. Do not increase the fuse capacity. If the problem is a circuit overload, have it corrected by a qualified electrician.
The door does not open when the cycle pauses or finishes	<ul style="list-style-type: none"> Is the temperature in the tub too high? Is the water level in washer high? 	<ul style="list-style-type: none"> The washing machine has a safety lock built into the door to prevent burning. Leave the door closed and wait until the door lock icon disappears from the display. Allow the washer to complete the programmed cycle, or Press the Spin button.
The wash cycle time is longer than usual	<ul style="list-style-type: none"> Is the washing machine overloaded? Are other options added to the wash cycle? 	<ul style="list-style-type: none"> This is normal. The washing machine automatically adjusts the cycle time for the amount of laundry, water pressure, water temperature, and other operating conditions.
It is musty or moldy in the tub	<ul style="list-style-type: none"> Has the incorrect detergent been used? Did you clean the tub periodically? 	<ul style="list-style-type: none"> Use only HE (High-Efficiency) detergent recommended for a front-loading washing machine. See page 36, clean the inside and outside of the washing machine periodically.
Banging noise when washer is filling with water (Water Hammer)	<ul style="list-style-type: none"> Plumbing in the home moves or flexes when the water valves in the washer shut off. Household water supply pressure is very high. 	<ul style="list-style-type: none"> Water hammer is not caused by a defect in the washer. Install water hammer arrestors (purchased separately at hardware or home improvement store) between the fill hose and the washer for best results. Adjust household water supply regulator to a lower pressure or contact a plumber to have a regulator installed.

SPECIFICATIONS

Model WM9000H*A	
Description	Front-Loading Washer
Electrical requirements	120 VAC @ 60 Hz.
Max. water pressure	20 and 120 psi (138 - 827 kPa)
Dimensions	73.7cm(W) X 85.6cm(D) X 104.5(H), 142cm (D with door open) 29" (W) X 33 3/4" (D) X 41 1/4" (H), 55 15/16" (D with door open)
Net weight	227lb (103kg)
Max. spin speed	1,300RPM

LG WASHING MACHINE LIMITED WARRANTY (USA)

WARRANTY:
LG Electronics U.S.A., Inc. ("LG") warrants your LG Washing Machine ("product") against defect in materials or workmanship under normal household use, during the warranty period set forth below. LG will, at its option, repair or replace the product. This limited warranty is valid only to the original retail purchaser of the product, is not assignable or transferrable to any subsequent purchaser or user, and applies only when the product is purchased through an LG authorized dealer or distributor and used within the United States ("U.S.") including U.S. Territories.

Note: Replacement products and repair parts may be new or factory-remanufactured and are warranted for the remaining portion of the original unit's warranty period or ninety (90) days, whichever is longer. Please retain dated receipt or delivery ticket as evidence of the Date of Purchase for proof of warranty (you may be required to submit a copy to LG or authorized representative).

WARRANTY PERIOD:

Period	One (1) year from date of original retail purchase:	Ten (10) years from date of original retail purchase:	Lifetime from date of original retail purchase:
Scope of Warranty	Any internal /functional Parts & Labor	Drum Motor (Stator, Rotor, and Hall Sensor)	Stainless Steel Drum
Remark	LG will provide parts & labor to repair or replace defective parts.	Parts only. Customer will be responsible for any labor or in-home service to replace defective parts.	

HOW SERVICE IS HANDLED: In-Home Service
In-home service will be provided, as available, during the warranty period subject to servicer availability within the U.S. To receive in-home service, the product must be unobstructed and accessible to service personnel. If the in-home service repair cannot be completed, it may be necessary to remove, repair and return the product. If in-home service is unavailable, LG may elect, at its option, to provide for transportation of the product to and from an LG authorized service center.

- THIS LIMITED WARRANTY DOES NOT COVER:**
- Service trips to deliver, pick up, or install the product or for instruction on product use.
 - Replacing house fuses or resetting of circuit breakers, correction of house wiring or plumbing, or correction of product installation.
 - Damage or failure caused by leaky/ broken/ frozen water pipes, restricted drain lines, inadequate or interrupted water supply or inadequate supply of air.
 - Damage or failure caused by accidents, pests and vermin, lightning, wind, fire, floods or acts of God.
 - Damage or failure resulting from misuse, abuse, improper installation, repair or maintenance. Improper repair includes use of parts not approved or specified by LG.
 - Damage or failure caused by unauthorized modification or alteration to the product.
 - Damage or failure caused by incorrect electrical current, voltage, or plumbing codes.
 - Cosmetic damage, including scratches, dents, chips or other damage to the finish of the product, unless such damage results from defects in materials or workmanship and is reported to LG within seven (7) calendar days from the date of delivery.
 - Damage or missing items to any display, open box, discounted, or refurbished product.
 - Product where the original factory serial numbers have been removed, defaced or changed in any way.
 - Repairs when product is used in other than normal and usual household use (e.g. rental, commercial use, offices, or recreational facilities) or contrary to the instructions outlined in the owner's manual.
 - The removal and reinstallation of the Product if it is installed in an inaccessible location.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING AND WITHOUT LIMITATION TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, THIS WARRANTY IS LIMITED IN DURATION TO THE TERM PERIOD EXPRESSED ABOVE. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CUSTOMER. NEITHER THE MANUFACTURER NOR ITS U.S. DISTRIBUTOR SHALL BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY NATURE, INCLUDING AND WITHOUT LIMITATION TO, LOST REVENUES OR PROFITS, OR ANY OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

HOW TO OBTAIN WARRANTY SERVICE & ADDITIONAL INFORMATION: Write your warranty information below:

Call 1-800-243-0000 or visit our website at www.lg.com.
Mail to: LG Customer Information Center (ATTN: CIC)
201 James Record Road, Huntsville, AL 35824

Product Registration Information:
Model:
Serial Number:
Date of Purchase:

LG WASHING MACHINE LIMITED WARRANTY (CANADA)

WARRANTY:

Should your LG Washer ("Product") fail due to a defect in material or workmanship under normal home use during the warranty period set forth below, LG Canada will at its option repair or the Product upon receipt of proof of original retail purchase. This warranty is valid only to the original retail purchaser of the product and applies only to a Product distributed in Canada by LG Canada or an authorized Canadian distributor thereof. The warranty only applies to Products located and used within Canada.

Period	One (1) year from the date of original retail purchase	Ten (10) years from the date of original retail purchase	Five (5) years from the date of original retail purchase
Scope of Warranty	Parts and Labor (internal/functional parts only)	DD Motor (Stator, Rotor, Hall Sensor)	Stainless Steel Drum
Remark	Washer	Extended Component Warranty (Parts Only) (Consumer will be charged for Labor after one (1) year from the date of purchase)	

- Replacement products and parts are warranted for the remaining portion of the original warranty period or ninety (90) days, whichever is greater.
- Replacement products and parts may be new or remanufactured.
- LG Authorized Service Center warranties their repair work for thirty (30) days.

LG Canada's sole liability is limited to the warranty set out above. Except as expressly provided above, LG Canada makes no and hereby disclaims all other warranties and conditions respecting the product, whether express or implied, including, but not limited to, any implied warranty or condition of merchantability or fitness for a particular purpose, and no representations shall be binding on LG Canada. LG Canada does not authorize any person to create or assume for it any other warranty obligation or liability in connection with the product. To the extent that any warranty or condition is implied by law, it is limited to the express warranty period above. LG Canada, the manufacturer or distributor shall not be liable for any incidental, consequential, special, direct or indirect damages, loss of goodwill, lost profits, punitive or exemplary damages or any other damage, whether arising directly or indirectly from any contractual breach, fundamental or otherwise, or from any acts or omissions, tort, or otherwise. This warranty gives you specific legal rights. You may have other rights which may vary from province to province depending on applicable provincial laws.

Any term of this warranty that negates or varies any implied condition or warranty under provincial law is severable where it conflicts with provincial law without affecting the remainder of this warranty's terms.

This limited warranty does not cover:

1. Service trips to deliver, pick up, or install the product; instructing a customer on operation of the product; repair or replacement of fuses or correction of wiring, or correction of unauthorized repairs/installation.
2. Failure of the product to perform during power failures and interruptions or inadequate electrical service.
3. Damage caused by leaky or broken water pipes, frozen water pipes, restricted drain lines, inadequate or interrupted water supply or inadequate supply of air.
4. Damage resulting from operating the Product in a corrosive atmosphere or contrary to the instructions outlined in the Product owner's manual.
5. Damage to the Product caused by accidents, pests and vermin, lightning, wind, fire, floods, or acts of God.
6. Damage resulting from the misuse, abuse, improper installation, repair, or maintenance of the Product. Improper repair includes use of parts not approved or specified by LG Canada.
7. Damage or product failure caused by unauthorized modification or alteration, or use for other than its intended purpose, or resulting from any water leakage due to improper installation.
8. Damage or Product failure caused by incorrect electrical current, voltage, commercial or industrial use, or use of accessories, components, or cleaning products that are not approved by LG Canada.
9. Damage caused by transportation and handling, including scratches, dents, chips, and/or other damage to the finish of your product, unless such damage results from defects in materials or workmanship and is reported within one (1) week of delivery.
10. Damage or missing items to any display, open box, discounted, or refurbished Product.
11. Products with original serial numbers that have been removed, altered, or cannot be readily determined. Model and Serial numbers, along with original retail sales receipt, are required for warranty validation.
12. Increases in utility costs and additional utility expenses.
13. Replacement of light bulbs, filters, or any consumable parts.
14. Repairs when your Product is used in other than normal and usual household use (including, without limitation, commercial use, in offices or recreational facilities) or contrary to the instructions outlined in the Product owner's manual.
15. Costs associated with removal of the Product from your home for repairs.
16. The removal and reinstallation of the Product if it is installed in an inaccessible location or is not installed in accordance with published installation instructions, including the Product owner's and installation manuals.
17. Accessories to the Product such as door bins, handles, shelves, etc. Also excluded are parts besides those that were originally included with the Product.

All costs associated with the above excluded circumstances shall be borne by the consumer.

For complete warranty details and customer assistance, please call or visit our website:

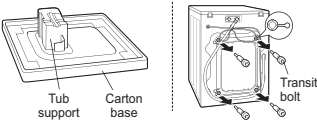
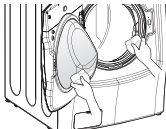
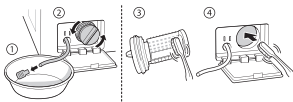
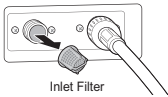
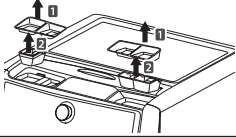
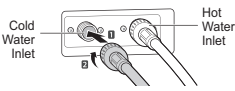
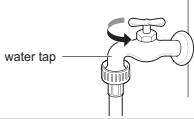
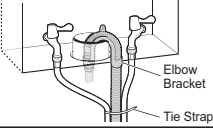
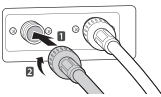
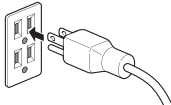
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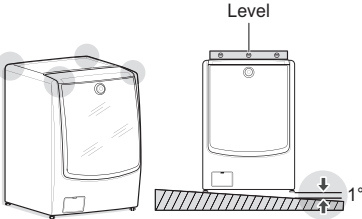
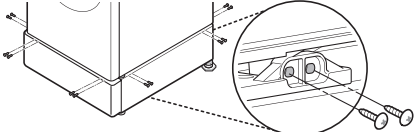
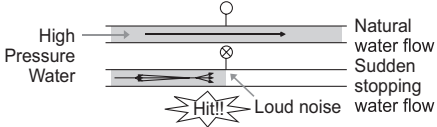
Call 1-888-542-2623 (24 hours a day, 365 days a year) and select Product Registration Information: the appropriate option from the menu, or visit our website at <http://www.lg.com>

Model:
Serial Number:
Date of Purchase:

THIS LIMITED WARRANTY DOES NOT COVER IN THE FOLLOWING CASES

With regard to damages or failures resulting from misuse, improper installation, maintenance, natural disaster or repair (unauthorized technician or parts, as specified by LG), Customer will be charged for the repair.

Strange vibration or noise caused by not removing transit bolts or tub support.	➔	 <p>Tub support Carton base Transit bolt</p>	Remove the transit bolts & tub support.
Leakage caused by dirt (hair, lint) on gasket and door glass.	➔		Clean the gasket & door glass.
Not draining caused by clogging of pump filter.	➔		Clean the pump filter.
Water is not coming because water inlet valve filters are clogged or water inlet hoses are kinked.	➔	 <p>Inlet Filter</p>	Clean the inlet valve filter or reinstall the water inlet hoses.
Water is not coming because too much detergent use.	➔		Clean the detergent dispenser.
Laundry is hot or warm after finished washing because the inlet hoses are installed in reverse.	➔	 <p>Cold Water Inlet Hot Water Inlet</p>	Reinstall the inlet hoses.
Water is not supplied because the water tap is not turned on.	➔	 <p>water tap</p>	Turn on the water tap.
Leakage caused by improper installation of drain hose or clogged drain hose.	➔	 <p>Elbow Bracket Tie Strap</p>	Reinstall the drain hose.
Leakage caused by improper installation of water inlet hose or using other brand inlet hoses.	➔		Reinstall the inlet hose.
No power problem caused by loose connection of power cord or electrical outlet problem.	➔		Reconnect the power cord or change the electrical outlet.

<p>Service trips to deliver, pick up, install the product or for instruction on product use. The removal and reinstallation of the Product.</p>	➔		<p>The warranty covers manufacturing defects only. Service resulting from improper Installation is not covered.</p>
<p>If all screws are not installed properly, it may cause excessive vibration (Pedestal model only).</p>	➔		<p>Install 4 screws at each corner (Total 16EA).</p>
<p>Water hammering (banging) noise when washing machine is filling with water.</p>	➔		<p>Adjust the water pressure by turning down the water valve or water tap in the home.</p>



This product qualifies for ENERGY STAR in the "factory default (Home Use)" setting.

Changing the factory default settings or enabling other features may increase power consumption that could exceed the limits necessary to qualify for ENERGY STAR.

LG Customer Information Center

1-800-243-0000	USA
1-888-542-2623	CANADA

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